Daily Drilling Report P1

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 2 Report Date : 3/9/2018

Financials

Daily Cost : $25,936 Cost to Date : $51,347

AFE # : PB18100003

AFE : $10,772,650 AFE Cost to Date : $51,347

Operations

Event Objective : Noram 27 D&C DB DEV WC A Event Sub Type : Drilling Prod

A.M. Ops : SDFN, W.O. DAYLIGHT

Ops Forecast : CONTINUE MI/RU NORAM RIG #27

24hr. Summary : MI 70%/RU 30%, MI 32 LOADS(50 TOTAL LOADS) NORAM RIG #27 W/AVEDA TRUCKING. 125 MILE MOVE, 19 HAUL TRUCKS, 2 CRANES, 1 TANDEM, 1 FORKLIFT. SPOT/SET SUB/DRAWWORKS, (2) GENERATORS, CHOKE /GAS BUSTER , SDFN.

Planning Status :

Elevations

GL 2772.00 ft Reserve Pit Freeboard : 0.00 ft

Progress

Days from Spud : 0 Progress : 0.00 ft MD at Report Time : 145.00 ft

Rig on Location (days) : 2 Est. TD : 21672.00 ft TVD At Report Time : 0.00 ft

Event Dates

Spud Date	Spud Time	Suspended Drilling Date	Resume Drilling Date	Total Depth Date	Total Depth Time	Finished Drilling Date	Finished Drilling Time	Rig Released Date	Rig Released Time

Time Breakdown

Start Time : 00:00 Initial Depth : 0.00 ft Drilling Hours : 0.00 Total Drilling Hours : 0.00 Total Hours : 24.00 Time Code :

Drilling % : 0.00 Rotating % : 0.00 Sliding % : 0.00

Start Time	End Time	Hours	Phase	Activity		NPT	Bit #	Run #	Depth (ft)	Remarks
				Time Code	Description					
00:00	06:00	6.00	MIRU	01A	RU/RD - MOBILIZATION	No			145.00	SDFN, W. O. DAYLIGHT.
06:00	12:00	6.00	MIRU	01A	RU/RD - MOBILIZATION	No			145.00	MI 50%/ RU 20%, MI 27 LOADS(45 TOTAL LOADS) NORAM RIG # 27 W/ AVEDA TRUCKING. 125 MILE MOVE, 19 HAUL TRUCKS, 2 CRANES, 1 TANDEM, 1 FORKLIFT. SPOT/ SET SUB/ DRAWWORKS, (2) GENERATORS, DIESEL TANKS, CHOKE MANIFOLD/ GAS BUSTER
12:00	18:00	6.00	MIRU	01A	RU/RD - MOBILIZATION	No			145.00	MI 65%/ RU 25%, MI 30 LOADS(48 TOTAL LOADS) NORAM RIG # 27 W/ AVEDA TRUCKING. 125 MILE MOVE, 19 HAUL TRUCKS, 2 CRANES, 1 TANDEM, 1 FORKLIFT. SPOT/ SET SUB/ DRAWWORKS, (2) GENERATORS, DIESEL TANKS, CHOKE MANIFOLD/ GAS BUSTER
18:00	21:00	3.00	MIRU	01A	RU/RD - MOBILIZATION	No			145.00	MI 70%/ RU 35%, MI 32 LOADS(50 TOTAL LOADS) NORAM RIG # 27 W/ AVEDA TRUCKING. 125 MILE MOVE, 19 HAUL TRUCKS, 2 CRANES, 1 TANDEM, 1 FORKLIFT. SPOT/ SET SUB/ DRAWWORKS, (2) GENERATORS, DIESEL TANKS, CHOKE MANIFOLD/ GAS BUSTER. PIN DERRICK TO FLOOR/ PIN TOP SECTION TO SAME. SET DRILLER SIDE DOGHOUSE.
21:00	00:00	3.00	MIRU	01A	RU/RD - MOBILIZATION	No			145.00	SDFN. NO RU ACTIVITY.

Personnel Hours

Vendor	Vendor Type	Number Of People	Hours On Site	Total Hours
ENERGEN CORP.	CONSULTANT	1	24.00	24.00
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00
NORAM DRILLING COMPANY	TOOLPUSHER	1	24.00	24.00
NORAM DRILLING COMPANY	RIG CREWS	10	24.00	240.00
AVEDA TRUCKING CO.	TRUCKING	10	15.00	150.00

Rig Information

KB Elevation: 2772.00 ft KB To GL : 0.00 ft

Rig(s) for today : Rig Manager : BO FLINT Rig Phone : 432-219-0731

Date and Time of Rig Release : Days From Rig Release : 0.00 Rig Fax :

Safety

Last BOP Test(F) Date :		Last BOP Pressure :	0.000 psi	Last Lot Fit :	0.00
Last Csg Date :		Last Csg Pressure :	0.000 psi	Last Spills Reported :	
Last BOP Drill Date :		Last Test MW :	0.00	Last Accidents :	
Last Fire Drill :		Last Test TVD :	0.00 ft	Last Safety Meeting :	
Last Evac Drill :		Last Test Pressure :	0.000 psi	Last Safety Meeting Topic :	

Contacts

Day Sup. :	WAYLON TRAMMELL	Phone :		Superintendent :	SANTOS MOROLES	Phone :	432-559-4901
Night Sup. :	MIKE PEAVY	Phone :		Geologist :		Phone :	
Alt. Phone :				Drill. Eng. :	RICHARD HILL	Phone :	432-818-1726

Attachments

Daily Attachment Folder(s)

Daily Drilling Report P2

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 2 Report Date : 3/9/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Mud Data

Mud Engineer : Mud Type : Polymer Type :

Chk	Time	Depth (ft)	Density (lbs/gal)	FV (s/qt)	YP (lbs/100 ft²)	PV (cP)	WL (cc/30 min)	Cl (ppm)	Electro Static Stability	Oil Ratio	H2O Ratio	HTHP Water Loss(cc/30 min)

Bit Data

Bit #	Run #	Size (in)	Mfg.	Model	IADC Code	Daily Drilled (ft)	Daily Hours	Daily ROP (ft/hr)	Cum Drilled (ft)	Cum Hrs.	Avg. ROP (ft/hr)	Depth In (ft)	Depth Out (ft)	Max WOB (M Lbs)	PSI Drop (psi)	Nozzle Velocity (ft/s)	HHP (HP)

BHA Data

For Bit # : Mud Motor : Total Made : 0 ft

Total BHA Hours : 0.0 Total Hours : 0.00

BHA # : DC OD : 0.000 in DP OD : 0.000 in BHA Length : 0.00 ft BHA Weight 0.00 M Lbs

Item	Jts	Length (ft)	OD (in)	ID (in)	Coupling OD (in)	Weight (lbs/ft)	Thread Type	Pin/Box

Drilling Parameters

Bit #	Run #	Depth (ft)	WOB (M Lbs)	RPM		GPM	Torque		String Weight			Pressure		
				Motor	Rotary		On Bom (ft lbf)	Off Bom (ft lbf)	Pick Up (lbs)	Stack Off (lbs)	Rotate (lbs)	On Bom (psi)	Off Bom (psi)	Diff Press. (psi)

Pump Data

Bit #	Pump 1					Pump 2					Pump Pressure (psi)	AV DC (ft/min)	AV DP (ft/min)
	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)			

Reduced Speed Pumps

Depth(ft)	Pump 1			Pump 2		
	Model	Pressure (psi)	SPM	Model	Pressure (psi)	SPM

Daily Drilling Report P3

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 2 Report Date : 3/9/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Drill Bottom Hole Targets

Bottom Hole Location	API / License #

Survey Data

Depth (ft)	Deviation	Azimuth	TVD (ft)	N/S	N/S (ft)	E/W	E/W (ft)	Vertical Section (ft)	Dog Leg

Hook Loads

Up :	0	
Down :	0	
Rotating :	0	
Torque :	0	Amps
Torque :	0.00	ft lbf

Comments

UL 20 STRIPES 38-47 602H
RIG MOBILIZATION BEGAN - 03/08/2018 @ 06:00 HRS
RIG ON DAYRATE @ XXXX HRS 03/XX/2018
SPUD WELL @ XXXX HRS ON 03/XX/2018
(XX HR RIG MOVE, XX HOURS R/U DIVERTER)
NOTIFIED TRRC FOR SPUD XXXX @ XXX HRS 03/XX/2018(OPERATOR X)
NOTIFIED TRRC FOR SURFACE CSG & CEMENT XXXX W/ TRRC JOB # @ XXXX HRS 03/XX/2018
NOTIFIED TRRC FOR INTERMEDIATE CSG & CMT, JOB # @ XXXX HRS 03/XX/2018, XXX OPERATOR #X.
NOTIFIED TRRC FOR 2ND INTERMEDIATE CMT, JOB # XXX @ XXX HRS, 03/XX/2018, XXX OPERATOR #X
TOTAL HRS FROM SPUD: XXX HRS (XX DAYS)

LAST 5" DP INSPECTION- CAT- 4 W/ SHEAR WAVE – 03/08/2018.

CLEAN/VISUAL INSPECT 742 JTS 4 1/2" DS-42, XX-XX-2018, XXX INSPECTION
UL 20 STRIPES 38-47 602H
742 JTS ACCEPTED BOTH ENDS AS PREMIUM
DAYS SINCE LAST LTA: (XXX DAYS):
CREW SHORTAGES (LAST 24HRS / TOTAL HRS): NO/NO
CREW DOUBLES (LAST 24 HRS / TOTAL HRS): NO/NO
DOWN TIME HRS (LAST 24HRS / TOTAL HRS): 0 / 0
NON PRODUCTIVE TIME (LAST 24HRS / TOTAL HRS): 0/0

OBM LOST TO WELL (LAST 24 HRS / TOTAL BBLS): 00 - BBLS / 00- BBL
OBM LOST: 0- BBLS TO FORMATION
OBM LOST: 0-BBLS TO CUTTINGS

13-3/8" 61# HCK-55 BTC SURFACE SET AT XXXX'
10-3/4"45.5# HCN-80 BTC INTERMEDIATE SET AT XXX'
7-5/8" 29.7# HCP-110 BTC SECOND INTERMEDIATE SET @ XXX' MD, XXX' TVD
SURFACE #1
17.5" ULTERRA U616S, W/9x16's TFA: 1.767 // TDI DIRECTIONAL MTR 9-5/8", 5/6 4.0,1.5° BENT SLICK 0.107 RPG - // IBS // MWD EXTREME // UBHO // 8" NMDC //17.25" NM IBS//8"

NMDC//FILTER SUB// 8" SHOCK SUB // 12 - 8" DC // 1- XO SUBS //12- JTS 6.5" DC//XO// 15 JTS HWDP// TOTAL BHA = 1305.77 // DEPTH IN: 145 DEPTH OUT: XXXX' // FTG DRILLED: XXX' // TOTAL DRLG HRS: XX // TOTAL MTR HRS: XX AVG ROP: XX' FPH // REASON PULLED: XX. BIT GRADE:

STARTING RIG FUEL - 3200 GALLONS TRANSFERRED IN .

DIESEL USAGE:
RIG FUEL (DAILY/TOTAL): 0/3200
MUD DIESEL (DAILY/TOTAL 0 / 0
AUXILIARY EQUIPMENT (DAILY/TOTAL): 0 / 0 GALS
NO LEAKS OR SPILLS REPORTED OR OBSERVED

Solids Removal

Shakers

Shaker #	Bottom	Middle	Top

Other Solids Removal Equipment

Item	Hrs Run	Intake Density (lbs/gal)	Overflow Density (lbs/gal)	Underflow Density (lbs/gal)

Mud Log

Formation :
Background Gas :
Trip Calc :
Connection Gas :
Flare Length :

Well Incident

Report # :
Incident Date :
Report Date :
Problem Name :

Daily Drilling Report P1

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 3 Report Date : 3/10/2018

Financials

Daily Cost : $61,714 Cost to Date : $115,976

AFE # : PB18100003

AFE : $10,772,650 AFE Cost to Date : $115,976

Operations

Event Objective : Noram 27 D&C DB DEV WC A Event Sub Type : Drilling Prod

A.M. Ops : R/U TOPDRIVE., RU RIG 90%. DAYLIGHT SAVINGS TIME(1 HR AHEAD)

Ops Forecast : CONTINUE MI/RU NORAM RIG #27. RU TOPDRIVE.

24hr. Summary : MI 100%/RU 70%, MI 42 LOADS(60 TOTAL LOADS) NORAM RIG #27 W/AVEDA TRUCKING. 125 MILE MOVE, 10 HAUL TRUCKS, 2 CRANES, 1 TANDEM, 1 FORKLIFT. RELEASE CRANES @ 1800 HRS. DRESS DERRICK, SCOPE/PIN HYDRAULIC CYLINDERS, RAISE DERRICK/SUB @ 1100 HRS. TROUBLESHOOT/REPAIR DRAWWORKS ENCODER, INSPECT DRAWWORKS, DRESS FLOOR, UN BRIDLE BLOCK & PIN BLOCK TO TOPDRIVE..

Planning Status :

Elevations

GL 2772.00 ft Reserve Pit Freeboard : 0.00 ft

Progress

Days from Spud : 0 Progress : 0.00 ft MD at Report Time : 145.00 ft

Rig on Location (days) : 3 Est. TD : 21672.00 ft TVD At Report Time : 0.00 ft

Event Dates

Spud Date	Spud Time	Suspended Drilling Date	Resume Drilling Date	Total Depth Date	Total Depth Time	Finished Drilling Date	Finished Drilling Time	Rig Released Date	Rig Released Time

Time Breakdown

Start Time : 00:00 Initial Depth : 0.00 ft Drilling Hours : 0.00 Total Drilling Hours : 0.00 Total Hours : 24.00 Time Code :

Drilling % : 0.00 Rotating % : 0.00 Sliding % : 0.00

Start Time	End Time	Hours	Phase	Activity		NPT	Bit #	Run #	Depth (ft)	Remarks
				Time Code	Description					
00:00	06:00	6.00	MIRU	01A	RU/RD - MOBILIZATION	No			145.00	SDFN. NO RU ACTIVITY.
06:00	12:00	6.00	MIRU	01A	RU/RD - MOBILIZATION	No			145.00	MI 100%/ RU 70%, MI 10 LOADS(60 TOTAL LOADS) NORAM RIG # 27 W/ AVEDA TRUCKING. 125 MILE MOVE, 10 HAUL TRUCKS, 2 CRANES, 1 TANDEM, 1 FORKLIFT. DRESS DERRICK, SCOPE/ PIN HYDRAULIC CYLINDERS. RAISE DERRICK/ SUB @ 1100 HRS.
12:00	18:00	6.00	MIRU	01A	RU/RD - MOBILIZATION	No			145.00	CONTINUE RU RIG. TROUBLE SHOOT DRAWWORKS ENCODER(3) HRS), REPAIR ENCODER WIRE. RU MUD LINES
18:00	00:00	6.00	MIRU	01A	RU/RD - MOBILIZATION	No			145.00	INSPECT DRAWWORKS, DRESS FLOOR, UN BRIDLE BLOCK & PIN TO TOPDRIVE.

Personnel Hours

Vendor	Vendor Type	Number Of People	Hours On Site	Total Hours
ENERGEN CORP.	CONSULTANT	1	24.00	24.00
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00
NORAM DRILLING COMPANY	TOOLPUSHER	1	24.00	24.00
NORAM DRILLING COMPANY	RIG CREWS	10	24.00	240.00
AVEDA TRUCKING CO.	TRUCKING	10	15.00	150.00

Rig Information

KB Elevation: 2772.00 ft KB To GL : 0.00 ft

Rig(s) for today : Rig Manager : BO FLINT Rig Phone : 432-219-0731

Date and Time of Rig Release : Days From Rig Release : 0.00 Rig Fax :

Safety

Last BOP Test(F) Date :		Last BOP Pressure :	0.000 psi	Last Lot Fit :	0.00
Last Csg Date :		Last Csg Pressure :	0.000 psi	Last Spills Reported :	N
Last BOP Drill Date :		Last Test MW :	0.00	Last Accidents :	N
Last Fire Drill :		Last Test TVD :	0.00 ft	Last Safety Meeting :	3/10/2018 00:00
Last Evac Drill :		Last Test Pressure :	0.000 psi	Last Safety Meeting Topic :	Rigging up

Contacts

Day Sup. :	WAYLON TRAMMELL	Phone :		Superintendent :	SANTOS MOROLES	Phone :	432-559-4901
Night Sup. :	MIKE PEAVY	Phone :		Geologist :		Phone :	
Alt. Phone :				Drill. Eng. :	RICHARD HILL	Phone :	432-818-1726

Attachments

Daily Attachment Folder(s)

Daily Drilling Report P2

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 3 Report Date : 3/10/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Mud Data

Mud Engineer : Smith Mud Type : Freshwater Polymer Type :

Chk	Time	Depth (ft)	Density (lbs/gal)	FV (s/qt)	YP (lbs/100 ft²)	PV (cP)	WL (cc/30 min)	Cl (ppm)	Electro Static Stability	Oil Ratio	H2O Ratio	HTHP Water Loss(cc/30 min)
1	12:00	0.00	8.40000	28.00	1	1.00	0.0	6800	0.0	0	0	0.0
2	23:00	0.00	8.40000	28.00	1	1.00	0.0	6800	0.0	0	0	0.0

Bit Data

Bit #	Run #	Size (in)	Mfg.	Model	IADC Code	Daily Drilled (ft)	Daily Hours	Daily ROP (ft/hr)	Cum Drilled (ft)	Cum Hrs.	Avg. ROP (ft/hr)	Depth In (ft)	Depth Out (ft)	Max WOB (M Lbs)	PSI Drop (psi)	Nozzle Velocity (ft/s)	HHP (HP)

BHA Data

For Bit # : Mud Motor : Total Made : 0 ft

Total BHA Hours : 0.0 Total Hours : 0.00

BHA # : DC OD : 0.000 in DP OD : 0.000 in BHA Length : 0.00 ft BHA Weight 0.00 M Lbs

Item	Jts	Length (ft)	OD (in)	ID (in)	Coupling OD (in)	Weight (lbs/ft)	Thread Type	Pin/Box

Drilling Parameters

Bit #	Run #	Depth (ft)	WOB (M Lbs)	RPM		GPM	Torque		String Weight			Pressure		
				Motor	Rotary		On Bom (ft lbf)	Off Bom (ft lbf)	Pick Up (lbs)	Stack Off (lbs)	Rotate (lbs)	On Bom (psi)	Off Bom (psi)	Diff Press. (psi)

Pump Data

Bit #	Pump 1					Pump 2					Pump Pressure (psi)	AV DC (ft/min)	AV DP (ft/min)
	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)			

Reduced Speed Pumps

Depth(ft)	Pump 1			Pump 2		
	Model	Pressure (psi)	SPM	Model	Pressure (psi)	SPM

Daily Drilling Report P3

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 3 Report Date : 3/10/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Drill Bottom Hole Targets

Bottom Hole Location	API / License #

Survey Data

Depth (ft)	Deviation	Azimuth	TVD (ft)	N/S	N/S (ft)	E/W	E/W (ft)	Vertical Section (ft)	Dog Leg

Hook Loads

Up :	0	
Down :	0	
Rotating :	0	
Torque :	0	Amps
Torque :	0.00	ft lbf

Comments

UL 20 STRIPES 38-47 602H
RIG MOBILIZATION BEGAN - 03/08/2018 @ 06:00 HRS
RIG ON DAYRATE @ XXXX HRS 03/XX/2018
SPUD WELL @ XXXX HRS ON 03/XX/2018
(XX HR RIG MOVE, XX HOURS R/U DIVERTER)
NOTIFIED TRRC FOR SPUD @ 1145 HRS 03/10/2018(OPERATOR #2 AUDREY)
NOTIFIED TRRC FOR SURFACE CSG & CEMENT W/ TRRC JOB #2 AUDREY @ 1145 HRS 03/10/2018
NOTIFIED TRRC FOR INTERMEDIATE CSG & CMT, JOB # @ XXXX HRS 03/XX/2018, XXX OPERATOR #X.
NOTIFIED TRRC FOR 2ND INTERMEDIATE CMT, JOB # XXX @ XXX HRS, 03/XX/2018, XXX OPERATOR #X
TOTAL HRS FROM SPUD: XXX HRS (XX DAYS)

LAST 5" DP INSP. (Red river) CAT- 4 W/ SHEAR WAVE – 03/08/2018.
421 jts kept w/Rig
33 jts sent to fishing tools
128 jts sent to NorAm yard
7 jts. down grade to Energen yd
Sent 16 jts & 1 lift sub to fishing tools

CLEAN/VISUAL INSPECT 742 JTS 4 1/2" DS-42, XX-XX-2018, XXX INSPECTION
742 JTS ACCEPTED BOTH ENDS AS PREMIUM
DAYS SINCE LAST LTA: (XXX DAYS):
CREW SHORTAGES (LAST 24HRS / TOTAL HRS): NO/NO
CREW DOUBLES (LAST 24 HRS / TOTAL HRS): NO/NO
DOWN TIME HRS (LAST 24HRS / TOTAL HRS): 0 / 0
NON PRODUCTIVE TIME (LAST 24HRS / TOTAL HRS): 0/0

OBM LOST TO WELL (LAST 24 HRS / TOTAL BBLS): 00 - BBLS / 00- BBL
OBM LOST: 0- BBLS TO FORMATION
OBM LOST: 0-BBLS TO CUTTINGS

13-3/8" 61# HCK-55 BTC SURFACE SET AT XXXX'
10-3/4"45.5# HCN-80 BTC INTERMEDIATE SET AT XXX'

7-5/8" 29.7# HCP-110 BTC SECOND INTERMEDIATE SET @ XXX' MD, XXX' TVD

SURFACE #1
17.5" ULTERRA U616S, W/9x16's TFA: 1.767 // TDI DIRECTIONAL MTR 9-5/8", 5/6 4.0,1.5° BENT SLICK 0.107 RPG - // IBS // MWD EXTREME // UBHO // 8" NMDC //17.25" NM IBS//8" NMDC//FILTER SUB// 8" SHOCK SUB // 12 - 8" DC // 1- XO SUBS //12- JTS 6.5" DC//XO// 15 JTS HWDP// TOTAL BHA = 1305.77 // DEPTH IN: 145 DEPTH OUT: XXXX' // FTG DRILLED: XXX' // TOTAL DRLG HRS: XX // TOTAL MTR HRS: XX AVG ROP: XX' FPH // REASON PULLED: XX. BIT GRADE:

STARTING RIG FUEL - 3200 GALLONS TRANSFERRED IN .

DIESEL USAGE:
RIG FUEL (DAILY/TOTAL): 0/10306
MUD DIESEL (DAILY/TOTAL 0 / 0
AUXILIARY EQUIPMENT (DAILY/TOTAL): 0 / 0 GALS
NO LEAKS OR SPILLS REPORTED OR OBSERVED

Solids Removal

Shakers

Shaker #	Bottom	Middle	Top

Other Solids Removal Equipment

Item	Hrs Run	Intake Density (lbs/gal)	Overflow Density (lbs/gal)	Underflow Density (lbs/gal)

Mud Log

Formation :
Background Gas :
Trip Calc :
Connection Gas :
Flare Length :

Well Incident

Report # :
Incident Date :
Report Date :
Problem Name :

Daily Drilling Report P1

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 4 Report Date : 3/11/2018

Financials

Daily Cost : $72,642 Cost to Date : $188,619

AFE # : PB18100003

AFE : $10,772,650 AFE Cost to Date : $188,619

Operations

Event Objective : Noram 27 D&C DB DEV WC A Event Sub Type : Drilling Prod

A.M. Ops : SPUD WELL @ 0000 HRS, 3/12/2018, DRLG F/145' - 330'(3-1/2 HRS). RIG SERVICE, TROUBLE SHOOT TOPDRIVE KICKING OFFLINE-C/O 5" HWDP KELLY JT(PULL THREADS) 1 HR.

Ops Forecast : SPUD WELL @ 0000 HRS, 3/12/2018, DRLG F/145' - 435'. RUN/SET/CEMENT 13-3/8", 61#, J-55, BTC @ 430', PULL 20" RISER, N/U SWECO 13-3/8" SOW X 13-5/8" 5K STARTINGHEAD, TEST SAME TO 750PSI, N/U SPACER SPOOL, DSA, BOPS, C/O HYDRIL RUBBER, INSTALL VBRS, TEST BOPS.

24hr. Summary : RU TOPDRIVE/FINISH RU RIG, PREFAB 20" RISER/BELL NIPPLE W/SLIP ON ASSY, HOOKUP FLOLINE/TURN BUCKLES. MAKE DUMMY RUN W/20" RISER/CLAMP, STRAP/CALIPER BHA, PRERUN RIG, RUN OUT TOPDRIVE.. HELD PRESPUD MTNG. P/U 8" PHOENIX 7/8 LOBE, 1.5 AB MTR, 8" MONELS, SCRIBE, MU ULTERRA 17-1/2" CF616 PDC BIT, WASHOUT OUT 20" CONDUCTOR TO 145',

Planning Status :

Elevations

GL 2772.00 ft Reserve Pit Freeboard : 0.00 ft

Progress

Days from Spud : 0 Progress : 0.00 ft MD at Report Time : 145.00 ft

Rig on Location (days) : 4 Est. TD : 21672.00 ft TVD At Report Time : 0.00 ft

Event Dates

Spud Date	Spud Time	Suspended Drilling Date	Resume Drilling Date	Total Depth Date	Total Depth Time	Finished Drilling Date	Finished Drilling Time	Rig Released Date	Rig Released Time
3/12/2018	00:00								

Time Breakdown

Start Time : 00:00 Initial Depth : 0.00 ft Drilling Hours : 0.00 Total Drilling Hours : 0.00 Total Hours : 24.00 Time Code :

Drilling % : 0.00 Rotating % : 0.00 Sliding % : 0.00

Start Time	End Time	Hours	Phase	Activity		NPT	Bit #	Run #	Depth (ft)	Remarks
				Time Code	Description					
00:00	06:00	6.00	MIRU	01A	RU/RD - MOBILIZATION	No			145.00	R/U TOPDRIVE, CONTINUE R/U RIG 90%.
06:00	12:00	6.00	MIRU	01A	RU/RD - MOBILIZATION	No			145.00	R/U 12"/8" PVC DUMP LINES TO PIT, TROUBLESHOOT CATHEADS ON DRAWWORKS.
12:00	18:00	6.00	MIRU	01A	RU/RD - MOBILIZATION	No			145.00	PREFAB 20" RISER/BELL NIPPLE W/ SLIP ON ASSY, R/U SAME, INSTALL FLOLINE/TURN BUCKLES.
18:00	19:00	1.00	MIRU	01A	RU/RD - MOBILIZATION	No			145.00	BUCK ON 5' LANDING JT W/ SWECO 13-3/8" SLIP ON ASSY & CLAMP TO 31' 13-3/8" LANDING JT. MAKE DUMMY RUN TO CONFIRM PROPER LANDING PT/STICK UP.
19:00	19:30	0.50	MIRU	01A	RU/RD - MOBILIZATION	No			145.00	STRAP/CALIPER BHA # 1.
19:30	20:00	0.50	MIRU	01A	RU/RD - MOBILIZATION	No			145.00	RIG SERVICE.
20:00	21:00	1.00	MIRU	01A	RU/RD - MOBILIZATION	No			145.00	PRE RUN RIG, RUN OUT TOPDRIVE, HELD PRE SPUD/SAFETY MTG.
21:00	23:30	2.50	MIRU	01A	RU/RD - MOBILIZATION	No	1	1	145.00	P/U PHOENIX 8" 7/8 LOBE, 4.0 STAGE 1.5 ABH, .168RPG W/ 11-3/4" NB, 8" NMPC, 8" DBLE PIN VELOCITY XO SUB, 8" LANDING SUB, 8" CENTRALIZER SUB, 8" GAP SUB, 8" NMDC, XO 4-1/2" XH X 6-5/8" REG, (1) 6-1/2" DC, KELLY JT. - SCRIBE TOOLS/INSTALL MWD. - SCRIBE OFFSET: 261.9DEG
23:30	00:00	0.50	MIRU	01A	RU/RD - MOBILIZATION	No			145.00	WASH OUT 20" CONDUCTOR TO 145'.

Personnel Hours

Vendor	Vendor Type	Number Of People	Hours On Site	Total Hours
ENERGEN CORP.	CONSULTANT	1	24.00	24.00
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00
NORAM DRILLING COMPANY	TOOLPUSHER	1	24.00	24.00
NORAM DRILLING COMPANY	RIG CREWS	10	24.00	240.00
AVEDA TRUCKING CO.	TRUCKING	10	15.00	150.00
AES DRILLING FLUIDS LLC	1- MAN CREW	1	24.00	24.00
PHOENIX DIRECTIONAL DRILLERS	4- MAN CREW	4	24.00	96.00

Rig Information

KB Elevation: 2772.00 ft KB To GL : 0.00 ft

Rig(s) for today : Rig Manager : BO FLINT Rig Phone : 432-219-0731

Date and Time of Rig Release : Days From Rig Release : 0.00 Rig Fax :

Safety

Last BOP Test(F) Date : Last BOP Pressure : 0.000 psi Last Lot Fit : 0.00

Last Csg Date : Last Csg Pressure : 0.000 psi Last Spills Reported : N

Last BOP Drill Date : Last Test MW : 0.00 Last Accidents : N

Last Fire Drill : Last Test TVD : 0.00 ft Last Safety Meeting : 3/11/2018 00:00

Last Evac Drill :		Last Test Pressure :	0.000 psi	Last Safety Meeting Topic :	LOCKOUT/TAGOUT PROCEDURES,

Contacts

Day Sup. :	WAYLON TRAMMELL	Phone :		Superintendent :	SANTOS MOROLES	Phone :	432-559-4901
Night Sup. :	MIKE PEAVY	Phone :		Geologist :		Phone :	
Alt. Phone :				Drill. Eng. :	RICHARD HILL	Phone :	432-818-1726

Attachments

Daily Attachment Folder(s)

Daily Drilling Report P2

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 4 Report Date : 3/11/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Mud Data

Mud Engineer : Smith Mud Type : Freshwater Polymer Type :

Chk	Time	Depth (ft)	Density (lbs/gal)	FV (s/qt)	YP (lbs/100 ft²)	PV (cP)	WL (cc/30 min)	Cl (ppm)	Electro Static Stability	Oil Ratio	H2O Ratio	HTHP Water Loss(cc/30 min)
1	11:15	0.00	8.40000	28.00	1	1.00	0.0	6800	0.0	0	0	0.0
2	23:20	152.00	8.40000	28.00	1	1.00	0.0	6800	0.0	0	0	0.0

Bit Data

Bit #	Run #	Size (in)	Mfg.	Model	IADC Code	Daily Drilled (ft)	Daily Hours	Daily ROP (ft/hr)	Cum Drilled (ft)	Cum Hrs.	Avg. ROP (ft/hr)	Depth In (ft)	Depth Out (ft)	Max WOB (M Lbs)	PSI Drop (psi)	Nozzle Velocity (ft/s)	HHP (HP)
1	1	0.000	ULTERRA	CF616		0.00	0.00	0.00	0.00	0.00	0.00	145.00	145.00	0.000	0.000	0.00	0.00

BHA Data

For Bit # : 1 Mud Motor : Total Made : 0 ft

Total BHA Hours : 0.0 Total Hours : 0.00

BHA # : DC OD : 0.000 in DP OD : 0.000 in BHA Length : 729.54 ft BHA Weight 0.00 M Lbs

Item	Jts	Length (ft)	OD (in)	ID (in)	Coupling OD (in)	Weight (lbs/ft)	Thread Type	Pin/Box
BITS	1	1.35	17.500	0.000	0.000	0.000	6- 5/8REG	
MUD MOTOR	1	27.17	8.000	0.000	0.000	0.000	6- 5/8REG	
NON- MAG COLLAR	1	11.14	8.000	3.250	0.000	0.000	6- 5/8REG	
MWD TOOLS	1	1.54	8.000	3.250	0.000	0.000	6- 5/8REG	
UBHO SUB	1	3.75	8.250	0.000	0.000	0.000	6- 5/8REG	
SUBS	1	8.53	8.060	0.000	0.000	0.000	6- 5/8REG	
GAP SUB	1	3.56	8.060	0.000	0.000	0.000	6- 5/8REG	
NON- MAG COLLAR	1	29.84	8.000	3.310	0.000	0.000	6- 5/8REG	
CROSSOVER SUB	1	3.33	7.940	2.880	0.000	0.000	4- 1/2XH	
COLLARS	15	453.97	6.500	2.750	0.000	0.000	4- 1/2XH	
CROSSOVER SUB	1	3.02	6.560	2.875	0.000	0.000	4- 1/2IF	
HWDP	6	182.34	5.000	3.000	0.000	0.000	4- 1/2IF	

Drilling Parameters

Bit #	Run #	Depth (ft)	WOB (M Lbs)	RPM		GPM	Torque		String Weight			Pressure		
				Motor	Rotary		On Bom (ft lbf)	Off Bom (ft lbf)	Pick Up (lbs)	Stack Off (lbs)	Rotate (lbs)	On Bom (psi)	Off Bom (psi)	Diff Press. (psi)
1	1	0.00	0.000	0	0	0	0.00	0.00	0	0	0	0.0	0.0	0.0

Pump Data

Bit #	Pump 1					Pump 2					Pump Pressure (psi)	AV DC (ft/min)	AV DP (ft/min)
	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)			
1		0.000	0.000	0	0.000		0.000	0.000	0	0.000	0.00	0	0

Reduced Speed Pumps

Depth(ft)	Pump 1			Pump 2		
	Model	Pressure (psi)	SPM	Model	Pressure (psi)	SPM

Daily Drilling Report P3

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 4 Report Date : 3/11/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Drill Bottom Hole Targets

Bottom Hole Location	API / License #

Survey Data

Depth (ft)	Deviation	Azimuth	TVD (ft)	N/S	N/S (ft)	E/W	E/W (ft)	Vertical Section (ft)	Dog Leg

Hook Loads

Up :	0	
Down :	0	
Rotating :	0	
Torque :	0	Amps
Torque :	0.00	ft lbf

Comments

UL 20 STRIPES 38-47 602H
RIG MOBILIZATION BEGAN - 03/08/2018 @ 00:00 HRS
SPUD WELL @ 00:00 HRS ON 03/12/2018
(96 HR RIG MOVE, NO DIVERTER)
NOTIFIED TRRC FOR SPUD @ 11:45 HRS 03/10/2018(OPERATOR #2 AUDREY)
NOTIFIED TRRC FOR SURFACE CSG & CEMENT W/ TRRC JOB #2 AUDREY @ 1145 HRS 03/10/2018
NOTIFIED TRRC FOR INTERMEDIATE CSG & CMT, JOB # @ XXXX HRS 03/XX/2018, XXX OPERATOR #X.
NOTIFIED TRRC FOR 2ND INTERMEDIATE CMT, JOB # XXX @ XXX HRS, 03/XX/2018, XXX OPERATOR #X
TOTAL HRS FROM SPUD: XXX HRS (XX DAYS)

LAST 5" DP INSP. (Red river) CAT- 4 W/ SHEAR WAVE – 03/08/2018.
421 jts kept w/Rig
33 jts sent to fishing tools
128 jts sent to NorAm yard
7 jts. down grade to Energen yd
Sent 16 jts & 1 lift sub to fishing tools

CLEAN/VISUAL INSPECT 742 JTS 4 1/2" DS-42, XX-XX-2018, XXX INSPECTION
742 JTS ACCEPTED BOTH ENDS AS PREMIUM
DAYS SINCE LAST LTA: (XXX DAYS):
CREW SHORTAGES (LAST 24HRS / TOTAL HRS): NO/NO
CREW DOUBLES (LAST 24 HRS / TOTAL HRS): NO/NO
DOWN TIME HRS (LAST 24HRS / TOTAL HRS): 0 / 0
NON PRODUCTIVE TIME (LAST 24HRS / TOTAL HRS): 0/0

OBM LOST TO WELL (LAST 24 HRS / TOTAL BBLS): 00 - BBLS / 00- BBL
OBM LOST: 0- BBLS TO FORMATION
OBM LOST: 0-BBLS TO CUTTINGS

13-3/8" 61# HCK-55 BTC SURFACE SET AT XXXX'
10-3/4"45.5# HCN-80 BTC INTERMEDIATE SET AT XXX'
7-5/8" 29.7# HCP-110 BTC SECOND INTERMEDIATE SET @ XXX' MD, XXX' TVD

SURFACE #1
17.5" ULTERRA U616S, W/9x16's TFA: 1.767 // TDI DIRECTIONAL MTR 9-5/8", 5/6 4.0,1.5° BENT SLICK 0.107 RPG - // IBS // MWD EXTREME // UBHO // 8" NMDC //17.25" NM IBS//8" NMDC//FILTER SUB// 8" SHOCK SUB // 12 - 8" DC // 1- XO SUBS //12- JTS 6.5" DC//XO// 15 JTS HWDP// TOTAL BHA = 1305.77 // DEPTH IN: 145 DEPTH OUT: XXXX' // FTG DRILLED: XXX' // TOTAL DRLG HRS: XX // TOTAL MTR HRS: XX AVG ROP: XX' FPH // REASON PULLED: XX. BIT GRADE:

STARTING RIG FUEL - 3200 GALLONS TRANSFERRED IN .

DIESEL USAGE:
RIG FUEL (DAILY/TOTAL): 327/10306
MUD DIESEL (DAILY/TOTAL 0 / 0
AUXILIARY EQUIPMENT (DAILY/TOTAL): 0 / 0 GALS
NO LEAKS OR SPILLS REPORTED OR OBSERVED

Solids Removal

Shakers

Shaker #	Bottom	Middle	Top

Other Solids Removal Equipment

Item	Hrs Run	Intake Density (lbs/gal)	Overflow Density (lbs/gal)	Underflow Density (lbs/gal)

Mud Log

Formation :
Background Gas :
Connection Gas :
Flare Length :
Trip Calc :

Well Incident

Report # :
Incident Date :
Report Date :
Problem Name :

Daily Drilling Report P1

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 5 Report Date : 3/12/2018

Financials

Daily Cost : $46,133 Cost to Date : $234,751

AFE # : PB18100003

AFE : $10,772,650 AFE Cost to Date : $234,751

Operations

Event Objective : Noram 27 D&C DB DEV WC A Event Sub Type : Drilling Prod

A.M. Ops : RIG DOWN CEMENTERS, BACK OUT LANDING JOINT & NIPPLE UP

Ops Forecast : NIPPLE UP & TEST BOP'S

24hr. Summary : DRLG 17.5" HOLE TO 450', REPAIR TOP DRIVE LEAD, SERVICE RIG, TOOH TO RUN CSG

Planning Status :

Elevations

GL 2772.00 ft Reserve Pit Freeboard : 0.00 ft

Progress

Days from Spud : 0 Progress : 305.00 ft MD at Report Time : 450.00 ft

Rig on Location (days) : 5 Est. TD : 21672.00 ft TVD At Report Time : 450.00 ft

Event Dates

Spud Date	Spud Time	Suspended Drilling Date	Resume Drilling Date	Total Depth Date	Total Depth Time	Finished Drilling Date	Finished Drilling Time	Rig Released Date	Rig Released Time
3/12/2018	00:00								

Time Breakdown

Start Time : 00:00 Initial Depth : 0.00 ft Drilling Hours : 8.00 Total Drilling Hours : 8.00 Total Hours : 24.00 Time Code :

Drilling % : 33.33 Rotating % : 100.00 Sliding % : 0.00

Start Time	End Time	Hours	Phase	Activity		NPT	Bit #	Run #	Depth (ft)	Remarks
				Time Code	Description					
00:00	02:00	2.00	DRLSUR	02B	DRILLING - MTR/TURB - VERT	No	1	1	238.00	SPUD WELL, DRLG 17.5" SURF HOLE F/ 145' T/ 238' (93' @ 46.5/ HR) WOB 5 - 15, ROT 30 - 80, RPG 55 - 75, GPM 334 - 450, SPM 80 - 110, SPP 300 - 980, DIFF 100 - 550, TQ 2 - 6K FT LBS DRLG THROUGH FLOW LINE W/ 100% RET IN FW RESERVE
02:00	03:30	1.50	DRLSUR	02B	DRILLING - MTR/TURB - VERT	No	1	1	330.00	DRLG 17.5" SURF HOLE F/ 238' T/ 330' (92' @ 61'/ HR) WOB 5 - 15, ROT 20 - 30, RPG 55 - 88, GPM 334 - 550, SPM 80 - 140, SPP 600 - 1280, DIFF 100 - 550, TQ 2 - 12K FT LBS, DRLG THROUGH FLOW LINE W/ 100% RET IN FW RESERVE
03:30	04:00	0.50	DRLSUR	10A	LUB RIG - DAILY SERVICE	No	1	1	330.00	LUBRICATE RIG
04:00	05:00	1.00	DRLSUR	02B	DRILLING - MTR/TURB - VERT	No	1	1	330.00	LAY OUT BAD JOINT OF 5" HWDP (THREADS)
05:00	07:30	2.50	DRLSUR	35M	TROUBLE - EF - OTHER	Yes	1	1	330.00	SHUT DOWN & FILL TOP DRIVE, HYDRAULIC GUAGE BACKED OUT
07:30	09:00	1.50	DRLSUR	02B	DRILLING - MTR/TURB - VERT	No	1	1	370.00	DRLG 17.5" SURF HOLE F/ 330' T/ 370' (40' @ 26.5'/ HR) WOB 5 - 15, ROT 20 - 30, RPG 55 - 88, GPM 334 - 550, SPM 80 - 140, SPP 600 - 1280, DIFF 100 - 550, TQ 2 - 12K FT LBS, DRLG THROUGH FLOW LINE W/ 100% RET IN FW RESERVE
09:00	11:00	2.00	DRLSUR	35M	TROUBLE - EF - OTHER	Yes	1	1	370.00	SAVER SUB THREADS PULLED, UNABLE TO PUMP, HOLE FALLING IN AROUND BHA, TOOH TO CHANGE SAVER SUB
11:00	12:00	1.00	DRLSUR	35M	TROUBLE - EF - OTHER	Yes	1	1	370.00	CHANGE SAVER SUB
12:00	14:30	2.50	DRLSUR	35DD	TROUBLE - TROUBLE - OTHER	Yes	1	1	370.00	PICK UP SHOCK SUB & RESCRIBE, TIH
14:30	16:00	1.50	DRLSUR	02B	DRILLING - MTR/TURB - VERT	No	1	1	414.00	DRLG 17.5" SURF HOLE F/ 370' T/ 414' (36' @ 72'/ HR) WOB 5 - 15, ROT 20 - 30, RPG 55 - 88, GPM 334 - 550, SPM 80 - 140, SPP 600 - 1280, DIFF 100 - 550, TQ 2 - 12K FT LBS, DRLG THROUGH FLOW LINE W/ 100% RET IN FW RESERVE
16:00	18:00	2.00	DRLSUR	35M	TROUBLE - EF - OTHER	Yes	1	1	414.00	TOP DRIVE A LEAD SHORTED OUT, REPAIR INSPECT TOP DRIVE
18:00	18:30	0.50	DRLSUR	02B	DRILLING - MTR/TURB - VERT	No	1	1	450.00	DRLG 17.5" SURF HOLE F/ 414' T/ 450' (36' @ 72'/ HR) WOB 5 - 15, ROT 20 - 30, RPG 55 - 88, GPM 334 - 550, SPM 80 - 140, SPP 600 - 1280, DIFF 100 - 550, TQ 2 - 12K FT LBS, DRLG THROUGH FLOW LINE W/ 100% RET IN FW RESERVE
18:30	19:00	0.50	DRLSUR	07C	C & C MUD - PRIOR TO TRIP	No	1	1	450.00	CIRC TWO 40 BBL 70 VIS SWEEPS, FLUID CALIPER 35% WASH
19:00	21:30	2.50	DRLSUR	35M	TROUBLE - EF - OTHER	Yes	1	1	450.00	BACKUP GRABBER DIE FELL OUT, C/ O COMPLETE GRABBER ASSEMBLY.
21:30	22:00	0.50	DRLSUR	07C	C & C MUD - PRIOR TO TRIP	Yes	1	1	450.00	TAG FILL 12' OFF BTM W/ O PUMP/ ROTARY. WASH TO BTM, CIRC BTMS UP.
22:00	23:30	1.50	DRLSUR	08A	TRIPPING - BIT/ BHA	No	1	1	450.00	POOH TO BHA, NORMAL DRAG/ PROPER FILL.
23:30	00:00	0.50	DRLSUR	08A	TRIPPING - BIT/ BHA	No	1	1	450.00	LAY OUT SHOCK SUB & MWD, BREAK BIT

Personnel Hours

Vendor	Vendor Type	Number Of People	Hours On Site	Total Hours
ENERGEN CORP.	CONSULTANT	1	24.00	24.00
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00
NORAM DRILLING COMPANY	TOOLPUSHER	1	24.00	24.00
NORAM DRILLING COMPANY	RIG CREWS	10	24.00	240.00

AVEDA TRUCKING CO.	TRUCKING	10	15.00	150.00
AES DRILLING FLUIDS LLC	1- MAN CREW	1	24.00	24.00
PHOENIX DIRECTIONAL DRILLERS	4- MAN CREW	4	24.00	96.00

Rig Information

KB Elevation:	2772.00 ft	KB To GL :	0.00 ft		
Rig(s) for today :		Rig Manager :	BO FLINT	Rig Phone :	432-219-0731
Date and Time of Rig Release :		Days From Rig Release :	0.00	Rig Fax :	

Safety

Last BOP Test(F) Date :		Last BOP Pressure :	0.000 psi	Last Lot Fit :	0.00
Last Csg Date :		Last Csg Pressure :	0.000 psi	Last Spills Reported :	N
Last BOP Drill Date :		Last Test MW :	0.00	Last Accidents :	N
Last Fire Drill :		Last Test TVD :	0.00 ft	Last Safety Meeting :	3/12/2018 00:00
Last Evac Drill :		Last Test Pressure :	0.000 psi	Last Safety Meeting Topic :	OVER HEAD HAZZARDS

Contacts

Day Sup. :	WAYLON TRAMMELL	Phone :		Superintendent :	SANTOS MOROLES	Phone :	432-559-4901
Night Sup. :	MIKE PEAVY	Phone :		Geologist :		Phone :	
Alt. Phone :				Drill. Eng. :	RICHARD HILL	Phone :	432-818-1726

Attachments

Daily Attachment Folder(s)

Daily Drilling Report P2

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 5 Report Date : 3/12/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Mud Data

Mud Engineer : Smith Mud Type : Freshwater Polymer Type :

Chk	Time	Depth (ft)	Density (lbs/gal)	FV (s/qt)	YP (lbs/100 ft²)	PV (cP)	WL (cc/30 min)	Cl (ppm)	Electro Static Stability	Oil Ratio	H2O Ratio	HTHP Water Loss(cc/30 min)
1	11:45	370.00	8.40000	28.00	1	1.00	0.0	7600	0.0	0	0	0.0
2	22:45	450.00	8.50000	33.00	2	4.00	0.0	7600	0.0	0	0	0.0

Bit Data

Bit #	Run #	Size (in)	Mfg.	Model	IADC Code	Daily Drilled (ft)	Daily Hours	Daily ROP (ft/hr)	Cum Drilled (ft)	Cum Hrs.	Avg. ROP (ft/hr)	Depth In (ft)	Depth Out (ft)	Max WOB (M Lbs)	PSI Drop (psi)	Nozzle Velocity (ft/s)	HHP (HP)
1	1	17.500	ULTERRA	CF616		305.00	8.00	38.13	305.00	8.00	38.13	145.00	450.00	0.000	0.000	0.00	0.00

BHA Data

For Bit # : 1 Mud Motor : Total Made : 305 ft

Total BHA Hours : 9.0 Total Hours : 8.00

BHA # : 1 DC OD : 0.000 in DP OD : 0.000 in BHA Length : 729.54 ft BHA Weight 0.00 M Lbs

Item	Jts	Length (ft)	OD (in)	ID (in)	Coupling OD (in)	Weight (lbs/ft)	Thread Type	Pin/Box
BITS	1	1.35	17.500	0.000	0.000	0.000	6- 5/8REG	
MUD MOTOR	1	27.17	8.000	0.000	0.000	0.000	6- 5/8REG	
NON- MAG COLLAR	1	11.14	8.000	3.250	0.000	0.000	6- 5/8REG	
MWD TOOLS	1	1.54	8.000	3.250	0.000	0.000	6- 5/8REG	
UBHO SUB	1	3.75	8.250	0.000	0.000	0.000	6- 5/8REG	
SUBS	1	8.53	8.060	0.000	0.000	0.000	6- 5/8REG	
GAP SUB	1	3.56	8.060	0.000	0.000	0.000	6- 5/8REG	
NON- MAG COLLAR	1	29.84	8.000	3.310	0.000	0.000	6- 5/8REG	
CROSSOVER SUB	1	3.33	7.940	2.880	0.000	0.000	4- 1/2XH	
COLLARS	15	453.97	6.500	2.750	0.000	0.000	4- 1/2XH	
CROSSOVER SUB	1	3.02	6.560	2.875	0.000	0.000	4- 1/2IF	
HWDP	6	182.34	5.000	3.000	0.000	0.000	4- 1/2IF	

Drilling Parameters

Bit #	Run #	Depth (ft)	WOB (M Lbs)	RPM		GPM	Torque		String Weight			Pressure		
				Motor	Rotary		On Bom (ft lbf)	Off Bom (ft lbf)	Pick Up (lbs)	Stack Off (lbs)	Rotate (lbs)	On Bom (psi)	Off Bom (psi)	Diff Press. (psi)
1	1	450.00	0.000	0	0	0	0.00	0.00	0	0	0	0.0	0.0	0.0

Pump Data

Bit #	Pump 1					Pump 2					Pump Pressure (psi)	AV DC (ft/min)	AV DP (ft/min)
	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)			
1		0.000	0.000	0	0.000		0.000	0.000	0	0.000	0.00	0	0

Reduced Speed Pumps

Depth(ft)	Pump 1			Pump 2		
	Model	Pressure (psi)	SPM	Model	Pressure (psi)	SPM

Daily Drilling Report P3

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 5 Report Date : 3/12/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Drill Bottom Hole Targets

Bottom Hole Location	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Survey Data

Depth (ft)	Deviation	Azimuth	TVD (ft)	N/S	N/S (ft)	E/W	E/W (ft)	Vertical Section (ft)	Dog Leg
269.00	1.89	6.0	205.94	N	3.38	W	0.35	-3.14	0.00
360.00	1.90	16.6	296.89	N	6.32	W	0.94	-5.80	0.00

Hook Loads

Up :	0	
Down :	0	
Rotating :	0	
Torque :	0	Amps
Torque :	0.00	ft lbf

Comments

UL 20 STRIPES 38-47 602H
RIG MOBILIZATION BEGAN - 03/08/2018 @ 00:00 HRS
SPUD WELL @ 00:00 HRS ON 03/12/2018
(96 HR RIG MOVE, NO DIVERTER)
TOTAL HRS FROM SPUD: 24 HRS (1 DAYS)

NOTIFIED TRRC FOR SPUD @ 11:45 HRS 03/10/2018(OPERATOR #2 AUDREY)
NOTIFIED TRRC FOR SURFACE CSG & CEMENT W/ TRRC JOB #2 AUDREY @ 1145 HRS 03/10/2018
NOTIFIED TRRC FOR INTERMEDIATE CSG & CMT, JOB # @ XXXX HRS 03/XX/2018, XXX OPERATOR #X.
NOTIFIED TRRC FOR 2ND INTERMEDIATE CMT, JOB # XXX @ XXX HRS, 03/XX/2018, XXX OPERATOR #X

LAST 5" DP INSP. (Red river) CAT- 4 W/ SHEAR WAVE – 03/08/2018.
421 jts kept w/Rig
33 jts sent to fishing tools
128 jts sent to NorAm yard
7 jts. down grade to Energen yd
Sent 16 jts & 1 lift sub to fishing tools

CLEAN/VISUAL INSPECT 742 JTS 4 1/2" DS-42, XX-XX-2018, XXX INSPECTION
742 JTS ACCEPTED BOTH ENDS AS PREMIUM
DAYS SINCE LAST LTA: (XXX DAYS):
CREW SHORTAGES (LAST 24HRS / TOTAL HRS): NO/NO
CREW DOUBLES (LAST 24 HRS / TOTAL HRS): NO/NO
DOWN TIME HRS (LAST 24HRS / TOTAL HRS): 0 / 0
NON PRODUCTIVE TIME (LAST 24HRS / TOTAL HRS): 13/13

OBM LOST TO WELL (LAST 24 HRS / TOTAL BBLS): 00 - BBLS / 00- BBL
OBM LOST: 0- BBLS TO FORMATION
OBM LOST: 0-BBLS TO CUTTINGS

13-3/8" 61# HCK-55 BTC SURFACE SET AT 437'
10-3/4"45.5# HCN-80 BTC INTERMEDIATE SET AT XXX'

7-5/8" 29.7# HCP-110 BTC SECOND INTERMEDIATE SET @ XXX' MD, XXX' TVD

SURFACE #1
17.5" ULTERRA U616S, W/9x16's TFA: 1.767 // TDI DIRECTIONAL MTR 9-5/8", 5/6 4.0,1.5° BENT SLICK 0.107 RPG - // IBS // MWD EXTREME // UBHO // 8" NMDC //17.25" NM IBS//8" NMDC//FILTER SUB// 8" SHOCK SUB // 12 - 8" DC // 1- XO SUBS //12- JTS 6.5" DC//XO// 15 JTS HWDP// TOTAL BHA = 1305.77 // DEPTH IN: 145 DEPTH OUT: 450' // FTG DRILLED: 305' // TOTAL DRLG HRS: 8 // TOTAL MTR HRS: 11 AVG ROP: 38.1' FPH // REASON PULLED: CSG POINT // 1/1 BIT GRADE:

STARTING RIG FUEL - 3200 GALLONS TRANSFERRED IN .

DIESEL USAGE:
RIG FUEL (DAILY/TOTAL): 327/10,306
MUD DIESEL (DAILY/TOTAL 0 / 0
AUXILIARY EQUIPMENT (DAILY/TOTAL): 0 / 0 GALS
NO LEAKS OR SPILLS REPORTED OR OBSERVED

Solids Removal

Shakers

Shaker #	Bottom	Middle	Top

Other Solids Removal Equipment

Item	Hrs Run	Intake Density (lbs/gal)	Overflow Density (lbs/gal)	Underflow Density (lbs/gal)

Mud Log

Formation :
Background Gas :
Trip Calc :
Connection Gas :
Flare Length :

Well Incident

Report # :
Incident Date :
Report Date :
Problem Name :

Daily Drilling Report P1

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 6 Report Date : 3/13/2018

Financials

Daily Cost : $171,479 Cost to Date : $427,230

AFE # : PB18100003

AFE : $10,772,650 AFE Cost to Date : $427,230

Operations

Event Objective : Noram 27 D&C DB DEV WC A Event Sub Type : Drilling Prod

A.M. Ops : 0000 - 0600 HRS: FINISH C/O ANNULAR ELEMENT, N/U

Ops Forecast : FINISH TEST BOPS, P/U 12-1/4" BIT/TOOLS, TIH TO FC(382'), TEST CSG 1000 PSI;30MIN, DRILLOUT , DRILL 12-1/4" HOLE TO +-4950'.

24hr. Summary : RACK BACK MUD MTR/MONELS, RU/RUN/CEMENT 13-3/8", 54.5#, K-55, BTC TO 435', BUMP PLUG @ 0520 HRS, ATTEMPT TO BACK OUT LJ, RE TORQ SAME, P/U 20" RISER, BACK OUT/LD 13-3/8" LJ AND 20" RISER, WELD ON GUSSETS TO 20" CONDUCTOR, N/U 13-3/8" SOW X 13-5/8" 5K STARTINGHEAD, TEST SAME. N/U SWECO 13-5/8" 5K X 13-5/8" 5K 'B' SECTION W/13-5/8" 5K X 13-5/8" 10K 'C' SECTION SPEED HEAD PREPPED FOR 10-3/4" X 7-5/8" X 5-1/2" CASING STRINGS. N/U 13-5/8" 10K X 13-5/8" 10K X 24" SPOOL N/U 13-5/8" 10K BOPS.

Planning Status :

Elevations

GL 2772.00 ft Reserve Pit Freeboard : 0.00 ft

Progress

Days from Spud : 1 Progress : 0.00 ft MD at Report Time : 450.00 ft

Rig on Location (days) : 6 Est. TD : 21672.00 ft TVD At Report Time : 0.00 ft

Event Dates

Spud Date	Spud Time	Suspended Drilling Date	Resume Drilling Date	Total Depth Date	Total Depth Time	Finished Drilling Date	Finished Drilling Time	Rig Released Date	Rig Released Time
3/12/2018	00:00								

Time Breakdown

Start Time : 00:00 Initial Depth : 0.00 ft Drilling Hours : 0.00 Total Drilling Hours : 8.00 Total Hours : 24.00 Time Code : NU / ND BC

Drilling % : 0.00 Rotating % : 0.00 Sliding % : 0.00

Start Time	End Time	Hours	Phase	Activity		NPT	Bit #	Run #	Depth (ft)	Remarks
				Time Code	Description					
00:00	00:30	0.50	CSGSUR	08A	TRIPPING - BIT/ BHA	No	1		450.00	RACK BACK DIRECTIONAL TOOLS IN DERRICK.
00:30	01:00	0.50	CSGSUR	15A	RUN CASING - RU/RD EQUIPMENT	No	1		450.00	R/U BUTCH'S 13-3/8" CSG TOOLS, HELD PJSM.
01:00	03:00	2.00	CSGSUR	15A	RUN CASING - RU/RD EQUIPMENT	No	1		450.00	RUN 13-3/8", 54.50#, K-55, BTC AS FOLLOWS: 13-3/8" FLOAT SHOE: 1.80 (1) JT 13-3/8", BTC: 39.69 13-3/8" FLOAT COLLAR: 1.40 (9) JTS 13-3/8", BTC: 357.27 13-3/8" PUP JT: 4.95 LANDING CLAMP: .30 13-3/8" LANDING JT W/ ACME BUSHING: 35.50 TOTAL CASING: 440.91' SET CASING @: 435' FULL RETURNS LANDED CASING W/ 20K W/ O BLOCK.
03:00	03:30	0.50	CSGSUR	15A	RUN CASING - RU/RD EQUIPMENT	No	1		450.00	CIRC BTMS UP, 800 STROKES, 60SPM, 200PSI, FULL RETURNS.
03:30	04:00	0.50	CSGSUR	16A	CEMENTING - RU/RD EQUIPMENT	No	1		450.00	R/U O-TEX CEMENTING/ CEMENT HEAD; HELD PJSM.
04:00	05:30	1.50	CSGSUR	16B	CEMENTING - PRIMARY	No	1		450.00	M/P CEMENT JOB AS FOLLOWS: TEST LINES TO 2000 PSI 20 BBLS FW SPACER 109 BBLS(455 SXS0 CLASS C + 2% CACL2, 14.8PPG, YIELD: 1.35 DROP PLUG 20 BBLS SUGAR WTR - DISPLACE 41 BBLS FW - DISPLACE BUMP PLUG @ 0520 HRS W/ 960PSI, 700 PSI OVER FINAL PUMP PSI CHECK FLOATS; 3/4 BBL BACK FULL RETURNS, GOOD PSI LIFT THROUGHOUT JOB. 20 BBLS CEMENT BACK NOTE: TOC AFTER 4 HRS WAS 3' BELOW CONDUCTOR.
05:30	06:00	0.50	CSGSUR	16A	CEMENTING - RU/RD EQUIPMENT	No	1		450.00	R/D O-TEX CEMENT EQUIP, WASH OUT 20" RISER/ FLOLINE W/ SUGAR WATER AHEAD THEN PITS.
06:00	11:00	5.00	CSGSUR	15B	RUN CASING - CSG/ LNR/ TIEBACK	No	1		450.00	ATTEMPT TO BACK OUT OF 13-3/8" LANDING JT IN THE ACME THREAD, INSTEAD WAS BACKING OUT IN 13-3/8" PUP JT BELOW ACME THREAD. R/D FLOLINE, P/U 20" CONDUCTOR. BACK OUT LANDING JT IN ACME THREAD, HOLDING BACK UP W/ WRENCHES ON LANDING CLAMP. L/D LANDING JT & 20" RISER.
										INSPECT LANDING JT/ LANDING CLAMP;

11:00	16:30	5.50	CSGSUR	37A	WELLHEAD - WELLHEAD INSTALL	No	1		450.00	WELD ON (4) 1-1/2" GUSSETS F/ LANDING CLAMP TO 20" CONDUCTOR. N/U SWECO 13-3/8" SOW X 13-5/8" 5K SLIP ON STARTING HEAD, TEST SAME TO 550PSI(50% OF CSG COLLAPSE).
16:30	19:00	2.50	CSGSUR	37A	WELLHEAD - WELLHEAD INSTALL	No	1		450.00	N/U SWECO 13-5/8" 5K X 13-5/8" 5K 'B' SECTION W/ 13-5/8" 5K X 13-5/8" 10K 'C' SECTION SPEED HEAD PREPPED FOR 10-3/4" X 7-5/8" X 5-1/2" CASING STRINGS.
19:00	20:00	1.00	CSGSUR	21A	NU / ND BOPE - NU / ND BOPE	No	1		450.00	N/U 13-5/8" 10K X 13-5/8" 10K X 24" SPOOL N/U 13-5/8" 10K BOPS.
20:00	00:00	4.00	CSGSUR	21A	NU / ND BOPE - NU / ND BOPE	No	1		450.00	C/O ANNULAR ELEMENT, RIG UP PVC PIPING, SHAKER TROUGH, IN BACK YARD

Personnel Hours

Vendor	Vendor Type	Number Of People	Hours On Site	Total Hours
ENERGEN CORP.	CONSULTANT	1	24.00	24.00
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00
NORAM DRILLING COMPANY	TOOLPUSHER	1	24.00	24.00
NORAM DRILLING COMPANY	RIG CREWS	12	24.00	288.00
AES DRILLING FLUIDS LLC	1- MAN CREW	1	24.00	24.00
PHOENIX DIRECTIONAL DRILLERS	4- MAN CREW	4	24.00	96.00
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00

Rig Information

KB Elevation:	2772.00 ft	KB To GL :	0.00 ft		
Rig(s) for today :		Rig Manager :	BO FLINT	Rig Phone :	432-219-0731
Date and Time of Rig Release :		Days From Rig Release :	0.00	Rig Fax :	

Safety

Last BOP Test(F) Date :		Last BOP Pressure :	0.000 psi	Last Lot Fit :	0.00
Last Csg Date :		Last Csg Pressure :	0.000 psi	Last Spills Reported :	N
Last BOP Drill Date :		Last Test MW :	0.00	Last Accidents :	N
Last Fire Drill :		Last Test TVD :	0.00 ft	Last Safety Meeting :	3/13/2018 18:00
Last Evac Drill :		Last Test Pressure :	0.000 psi	Last Safety Meeting Topic :	N/U BOPs

Contacts

Day Sup. :	WAYLON TRAMMELL	Phone :		Superintendent :	SANTOS MOROLES	Phone :	432-559-4901
Night Sup. :	MIKE PEAVY	Phone :		Geologist :		Phone :	
Alt. Phone :				Drill. Eng. :	RICHARD HILL	Phone :	432-818-1726

Attachments

Daily Attachment Folder(s)

Daily Drilling Report P2

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 6 Report Date : 3/13/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Mud Data

Mud Engineer : Smith Mud Type : Freshwater Polymer Type :

Chk	Time	Depth (ft)	Density (lbs/gal)	FV (s/qt)	YP (lbs/100 ft²)	PV (cP)	WL (cc/30 min)	Cl (ppm)	Electro Static Stability	Oil Ratio	H2O Ratio	HTHP Water Loss(cc/30 min)
1	08:25	450.00	8.50000	33.00	1	4.00	0.0	7600	0.0	0	0	0.0
2	23:45	450.00	8.50000	33.00	2	4.00	0.0	7600	0.0	0	0	0.0

Bit Data

Bit #	Run #	Size (in)	Mfg.	Model	IADC Code	Daily Drilled (ft)	Daily Hours	Daily ROP (ft/hr)	Cum Drilled (ft)	Cum Hrs.	Avg. ROP (ft/hr)	Depth In (ft)	Depth Out (ft)	Max WOB (M Lbs)	PSI Drop (psi)	Nozzle Velocity (ft/s)	HHP (HP)

BHA Data

For Bit # : Mud Motor : Total Made : 0 ft

Total BHA Hours : 9.0 Total Hours : 0.00

BHA # : DC OD : 6.500 in DP OD : 5.000 in BHA Length : 0.00 ft BHA Weight 0.00 M Lbs

Item	Jts	Length (ft)	OD (in)	ID (in)	Coupling OD (in)	Weight (lbs/ft)	Thread Type	Pin/Box

Drilling Parameters

Bit #	Run #	Depth (ft)	WOB (M Lbs)	RPM		GPM	Torque		String Weight			Pressure		
				Motor	Rotary		On Bom (ft lbf)	Off Bom (ft lbf)	Pick Up (lbs)	Stack Off (lbs)	Rotate (lbs)	On Bom (psi)	Off Bom (psi)	Diff Press. (psi)

Pump Data

Bit #	Pump 1					Pump 2					Pump Pressure (psi)	AV DC (ft/min)	AV DP (ft/min)
	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)			

Reduced Speed Pumps

Depth(ft)	Pump 1			Pump 2		
	Model	Pressure (psi)	SPM	Model	Pressure (psi)	SPM

Daily Drilling Report P3

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 6 Report Date : 3/13/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Drill Bottom Hole Targets

Bottom Hole Location	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Survey Data

Depth (ft)	Deviation	Azimuth	TVD (ft)	N/S	N/S (ft)	E/W	E/W (ft)	Vertical Section (ft)	Dog Leg

Hook Loads

Up :	0	
Down :	0	
Rotating :	0	
Torque :	0	Amps
Torque :	0.00	ft lbf

Comments

UL 20 STRIPES 38-47 602H
RIG MOBILIZATION BEGAN - 03/08/2018 @ 00:00 HRS
SPUD WELL @ 00:00 HRS ON 03/12/2018
(96 HR RIG MOVE, NO DIVERTER)
TOTAL HRS FROM SPUD: 48 HRS (2 DAYS)

NOTIFIED TRRC FOR SPUD @ 11:45 HRS 03/10/2018(OPERATOR #2 AUDREY)
NOTIFIED TRRC FOR SURFACE CSG & CEMENT W/ TRRC JOB #2 AUDREY @ 1145 HRS 03/10/2018
NOTIFIED TRRC FOR INTERMEDIATE CSG & CMT, JOB # @ XXXX HRS 03/XX/2018, XXX OPERATOR #X.
NOTIFIED TRRC FOR 2ND INTERMEDIATE CMT, JOB # XXX @ XXX HRS, 03/XX/2018, XXX OPERATOR #X

LAST 5" DP INSP. (Red river) CAT- 4 W/ SHEAR WAVE – 03/08/2018.
421 jts kept w/Rig
33 jts sent to fishing tools
128 jts sent to NorAm yard
7 jts. down grade to Energen yd
Sent 16 jts & 1 lift sub to fishing tools

CLEAN/VISUAL INSPECT 742 JTS 4 1/2" DS-42, XX-XX-2018, XXX INSPECTION
742 JTS ACCEPTED BOTH ENDS AS PREMIUM
DAYS SINCE LAST LTA: (XXX DAYS):
CREW SHORTAGES (LAST 24HRS / TOTAL HRS): NO/NO
CREW DOUBLES (LAST 24 HRS / TOTAL HRS): NO/NO
DOWN TIME HRS (LAST 24HRS / TOTAL HRS): 0 / 0
NON PRODUCTIVE TIME (LAST 24HRS / TOTAL HRS): 14.5/14.5

OBM LOST TO WELL (LAST 24 HRS / TOTAL BBLS): 00 - BBLS / 00- BBL
OBM LOST: 0- BBLS TO FORMATION
OBM LOST: 0-BBLS TO CUTTINGS

13-3/8" 61# HCK-55 BTC SURFACE SET AT 437'
10-3/4"45.5# HCN-80 BTC INTERMEDIATE SET AT XXX'

7-5/8" 29.7# HCP-110 BTC SECOND INTERMEDIATE SET @ XXX' MD, XXX' TVD

SURFACE #1
17.5" ULTERRA U616S, W/9x16's TFA: 1.767 // TDI DIRECTIONAL MTR 9-5/8", 5/6 4.0,1.5° BENT SLICK 0.107 RPG - // IBS // MWD EXTREME // UBHO // 8" NMDC //17.25" NM IBS//8" NMDC//FILTER SUB// 8" SHOCK SUB // 12 - 8" DC // 1- XO SUBS //12- JTS 6.5" DC//XO// 15 JTS HWDP// TOTAL BHA = 1305.77 // DEPTH IN: 145 DEPTH OUT: 450' // FTG DRILLED: 305' // TOTAL DRLG HRS: 8 // TOTAL MTR HRS: 11 AVG ROP: 38.1' FPH // REASON PULLED: CSG POINT // 1/1 BIT GRADE:

STARTING RIG FUEL - 3200 GALLONS TRANSFERRED IN .

DIESEL USAGE:
RIG FUEL (DAILY/TOTAL): /10,306
MUD DIESEL (DAILY/TOTAL 0 / 0
AUXILIARY EQUIPMENT (DAILY/TOTAL): 0 / 0 GALS
NO LEAKS OR SPILLS REPORTED OR OBSERVED

Solids Removal

Shakers

Shaker #	Bottom	Middle	Top

Other Solids Removal Equipment

Item	Hrs Run	Intake Density (lbs/gal)	Overflow Density (lbs/gal)	Underflow Density (lbs/gal)

Mud Log

Formation :
Background Gas :
Trip Calc :
Connection Gas :
Flare Length :

Well Incident

Report # :
Incident Date :
Report Date :
Problem Name :

Daily Drilling Report P1

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 7 Report Date : 3/14/2018

Financials

Daily Cost : $116,669 Cost to Date : $729,092

AFE # : PB18100003

AFE : $10,772,650 AFE Cost to Date : $729,092

Operations

Event Objective : Noram 27 D&C DB DEV WC A Event Sub Type : Drilling Prod

A.M. Ops : DRLG 12.25" INTERMEDIATE HOLE @ 525'

Ops Forecast : DRILL INTERM. TOWARDS TD @+-4950'

24hr. Summary : N/U BOP, TEST BOP

Planning Status :

Elevations

GL 2772.00 ft Reserve Pit Freeboard : 0.00 ft

Progress

Days from Spud : 2 Progress : 0.00 ft MD at Report Time : 450.00 ft

Rig on Location (days) : 7 Est. TD : 21672.00 ft TVD At Report Time : 450.00 ft

Event Dates

Spud Date	Spud Time	Suspended Drilling Date	Resume Drilling Date	Total Depth Date	Total Depth Time	Finished Drilling Date	Finished Drilling Time	Rig Released Date	Rig Released Time
3/12/2018	00:00								

Time Breakdown

Start Time : 00:00 Initial Depth : 0.00 ft Drilling Hours : 0.00 Total Drilling Hours : 8.00 Total Hours : 24.00 Time Code : TEST BOPI

Drilling % : 0.00 Rotating % : 0.00 Sliding % : 0.00

Start Time	End Time	Hours	Phase	Activity		NPT	Bit #	Run #	Depth (ft)	Remarks
				Time Code	Description					
00:00	06:00	6.00	CSGSUR	21A	NU / ND BOPE - NU / ND BOPE	No	1		450.00	FINISH C/ O BAD ANNULAR ELEMENT, TORQUE ANNULAR CAP, HAD TO BREAK STACK AT BOTTOM RAMS AND SPOOL TO RAISE UP TO OPEN DOORS TO C/ O RAMS TO VBR' S DUE TO PINS IN SUB BRACES NOT COMING OUT,
06:00	14:30	8.50	CSGSUR	21A	NU / ND BOPE - NU / ND BOPE	No	1		450.00	CLOSE AND TORQ LOWER RAM DOORS, C/ O UPPER RAMS TO VBR' S, N/ U R/ U ROTATING HEAD, FINISH N/ U
14:30	18:00	3.50	CSGSUR	22A	TEST BOPE - TEST BOPE	No	1		450.00	TEST BOP' S TO 250 PSI LOW, AND 1, 500 PSI HIGH WITH THE HYDRILL TO 2, 500 PSI, TEST MUD LINES BACK TO PUMPS TO 4, 000 PSI
18:00	00:00	6.00	CSGSUR	22A	TEST BOPE - TEST BOPE	No	1		450.00	TEST BOP' S TO 250 PSI LOW, AND 1, 500 PSI HIGH WITH THE HYDRILL TO 2, 500 PSI, TEST MUD LINES BACK TO PUMPS TO 4, 000 PSI

Personnel Hours

Vendor	Vendor Type	Number Of People	Hours On Site	Total Hours
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00
NORAM DRILLING COMPANY	TOOLPUSHER	1	24.00	24.00
NORAM DRILLING COMPANY	RIG CREWS	12	24.00	288.00
AES DRILLING FLUIDS LLC	1- MAN CREW	1	24.00	24.00
PHOENIX DIRECTIONAL DRILLERS	4- MAN CREW	4	24.00	96.00
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00

Rig Information

KB Elevation: 2797.00 ft KB To GL : 25.00 ft

Rig(s) for today : Noram 27 Rig Manager : BO FLINT Rig Phone : 432-219-0731

Date and Time of Rig Release : Days From Rig Release : 0.00 Rig Fax :

Safety

Last BOP Test(F) Date : 3/15/2018 Last BOP Pressure : 1500.000 psi Last Lot Fit : 0.00

Last Csg Date : 3/15/2018 Last Csg Pressure : 250.000 psi Last Spills Reported : N

Last BOP Drill Date : Last Test MW : 0.00 Last Accidents : N

Last Fire Drill : Last Test TVD : 0.00 ft Last Safety Meeting : 3/15/2018 18:00

Last Evac Drill : Last Test Pressure : 0.000 psi Last Safety Meeting Topic : TESTING BOP'S

Contacts

Day Sup. : WAYLON TRAMMELL Phone : Superintendent : SANTOS MOROLES Phone : 432-559-4901

Night Sup. : CHRIS KEIS Phone : Geologist : Phone :

Alt. Phone : Drill. Eng. : RICHARD HILL Phone : 432-818-1726

Attachments

Daily Attachment Folder(s)

Daily Drilling Report P2

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 7 Report Date : 3/14/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Mud Data

Mud Engineer : Smith Mud Type : Brine Polymer Type :

Chk	Time	Depth (ft)	Density (lbs/gal)	FV (s/qt)	YP (lbs/100 ft²)	PV (cP)	WL (cc/30 min)	Cl (ppm)	Electro Static Stability	Oil Ratio	H2O Ratio	HTHP Water Loss(cc/30 min)
1	13:20	450.00	9.60000	31.00	1	1.00	0.0	162000	0.0	0	0	0.0
2	20:25	450.00	9.60000	31.00	1	3.00	0.0	146000	0.0	0	0	0.0

Bit Data

Bit #	Run #	Size (in)	Mfg.	Model	IADC Code	Daily Drilled (ft)	Daily Hours	Daily ROP (ft/hr)	Cum Drilled (ft)	Cum Hrs.	Avg. ROP (ft/hr)	Depth In (ft)	Depth Out (ft)	Max WOB (M Lbs)	PSI Drop (psi)	Nozzle Velocity (ft/s)	HHP (HP)
2	1	12.250	ULTERRA	CF616		0.00	0.00	0.00	0.00	0.00	0.00	450.00	450.00	0.000	0.000	0.00	0.00

BHA Data

For Bit # : 2 Mud Motor : Total Made : 0 ft

Total BHA Hours : 9.0 Total Hours : 0.00

BHA # : 02 DC OD : 6.500 in DP OD : 5.000 in BHA Length : 1026.98 ft BHA Weight 0.00 M Lbs

Item	Jts	Length (ft)	OD (in)	ID (in)	Coupling OD (in)	Weight (lbs/ft)	Thread Type	Pin/Box
BITS	1	1.00	12.250	0.000	0.000	0.000	6- 5/8REG	Pin
MUD MOTOR	1	27.17	7.750	0.000	11.750	0.000	6- 5/8REG	Box
STABILIZERS	1	6.98	8.000	2.875	11.750	0.000	6- 5/8REG	Box
SHOCK SUB	1	14.11	8.000	2.880	8.000	0.000	6- 5/8REG	Box
NON- MAG COLLAR	1	11.14	8.000	3.250	8.060	0.000	6- 5/8REG	Box
MWD TOOLS	1	1.54	8.000	3.250	8.000	0.000	6- 5/8REG	Box
SUBS	1	3.75	8.060	0.000	8.250	0.000	6- 5/8REG	Box
SUBS	1	8.53	8.060	0.000	8.060	0.000	6- 5/8REG	Box
GAP SUB	1	3.56	8.060	0.000	8.060	0.000	6- 5/8REG	Box
NON- MAG COLLAR	1	29.84	8.000	3.310	8.000	0.000	6- 5/8REG	Box
STABILIZERS	1	4.30	8.060	2.940	11.750	0.000	6- 5/8REG	Box
CROSSOVER SUB	1	3.33	6.500	2.880	7.940	0.000	4- 1/2XH	Box
COLLARS	15	453.97	6.500	2.750	0.000	0.000	4- 1/2XH	Box
CROSSOVER SUB	1	3.02	6.500	2.875	6.563	0.000	4- 1/2IF	Box
HWDP	15	454.74	5.000	3.000	0.000	0.000	4- 1/2IF	Box

Drilling Parameters

Bit #	Run #	Depth (ft)	WOB (M Lbs)	RPM		GPM	Torque		String Weight			Pressure		
				Motor	Rotary		On Bom (ft lbf)	Off Bom (ft lbf)	Pick Up (lbs)	Stack Off (lbs)	Rotate (lbs)	On Bom (psi)	Off Bom (psi)	Diff Press. (psi)
2	1	0.00	0.000	0	0	0	0.00	0.00	0	0	0	0.0	0.0	0.0

Pump Data

Bit #	Pump 1					Pump 2					Pump Pressure (psi)	AV DC (ft/min)	AV DP (ft/min)
	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)			
2		12.000	6.000	0	0.000		12.000	6.000	0	0.000	0.00	0	0

Reduced Speed Pumps

Depth(ft)	Pump 1			Pump 2		
	Model	Pressure (psi)	SPM	Model	Pressure (psi)	SPM

Daily Drilling Report P3

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 7 Report Date : 3/14/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Drill Bottom Hole Targets

Bottom Hole Location	API / License #

Survey Data

Depth (ft)	Deviation	Azimuth	TVD (ft)	N/S	N/S (ft)	E/W	E/W (ft)	Vertical Section (ft)	Dog Leg

Hook Loads

Up :	0	
Down :	0	
Rotating :	0	
Torque :	0	Amps
Torque :	0.00	ft lbf

Comments

UL 20 STRIPES 38-47 602H
RIG MOBILIZATION BEGAN - 03/08/2018 @ 00:00 HRS
SPUD WELL @ 00:00 HRS ON 03/12/2018
(96 HR RIG MOVE, NO DIVERTER)
TOTAL HRS FROM SPUD: 72 HRS (3 DAYS)

NOTIFIED TRRC FOR SPUD @ 11:45 HRS 03/10/2018(OPERATOR #2 AUDREY)
NOTIFIED TRRC FOR SURFACE CSG & CEMENT W/ TRRC JOB #2 AUDREY @ 1145 HRS 03/10/2018
NOTIFIED TRRC FOR INTERMEDIATE CSG & CMT, JOB # @ XXXX HRS 03/XX/2018, XXX OPERATOR #X.
NOTIFIED TRRC FOR 2ND INTERMEDIATE CMT, JOB # XXX @ XXX HRS, 03/XX/2018, XXX OPERATOR #X

LAST 5" DP INSP. (Red river) CAT- 4 W/ SHEAR WAVE – 03/08/2018.
421 jts kept w/Rig
33 jts sent to fishing tools
128 jts sent to NorAm yard
7 jts. down grade to Energen yd
Sent 16 jts & 1 lift sub to fishing tools

CLEAN/VISUAL INSPECT 742 JTS 4 1/2" DS-42, XX-XX-2018, XXX INSPECTION
742 JTS ACCEPTED BOTH ENDS AS PREMIUM
DAYS SINCE LAST LTA: (XXX DAYS):
CREW SHORTAGES (LAST 24HRS / TOTAL HRS): NO/NO
CREW DOUBLES (LAST 24 HRS / TOTAL HRS): NO/NO
DOWN TIME HRS (LAST 24HRS / TOTAL HRS): 0 / 0
NON PRODUCTIVE TIME (LAST 24HRS / TOTAL HRS): 14.5/14.5

OBM LOST TO WELL (LAST 24 HRS / TOTAL BBLS): 00 - BBLS / 00- BBL
OBM LOST: 0- BBLS TO FORMATION
OBM LOST: 0-BBLS TO CUTTINGS

13-3/8" 61# HCK-55 BTC SURFACE SET AT 437'
10-3/4"45.5# HCN-80 BTC INTERMEDIATE SET AT XXX'

7-5/8" 29.7# HCP-110 BTC SECOND INTERMEDIATE SET @ XXX' MD, XXX' TVD

INTERMEDIATE #1
12.25" ULTERRA CF616S, W/6x16's TFA: 1.1781 // PHOENIX MTR 7.75", 7/8 4.0,1.5° BENT STAB. 0.166 RPG - // 11.75" NORTRAK STAB // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 11.75 NORTRAK STAB // 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15 JTS 5" HWDP// TOTAL BHA = 1026.98' // DEPTH IN: 450 DEPTH OUT: XXX' // FTG DRILLED: XXX' // TOTAL DRLG HRS: XX // TOTAL MTR HRS: XX AVG ROP: XXX' FPH // REASON PULLED: XXXXXX //

SURFACE #1
17.5" ULTERRA U616S, W/9x16's TFA: 1.767 // TDI DIRECTIONAL MTR 9-5/8", 5/6 4.0,1.5° BENT SLICK 0.107 RPG - // IBS // MWD EXTREME // UBHO // 8" NMDC //17.25" NM IBS//8" NMDC//FILTER SUB// 8" SHOCK SUB // 12 - 8" DC // 1- XO SUBS //12- JTS 6.5" DC//XO// 15 JTS HWDP// TOTAL BHA = 1305.77 // DEPTH IN: 145 DEPTH OUT: 450' // FTG DRILLED: 305' // TOTAL DRLG HRS: 8 // TOTAL MTR HRS: 11 AVG ROP: 38.1' FPH // REASON PULLED: CSG POINT // 1/1 BIT GRADE: 1-1-NO-A-I-NO-TD

STARTING RIG FUEL - 3200 GALLONS TRANSFERRED IN .

DIESEL USAGE:
RIG FUEL (DAILY/TOTAL): 932/12,918
MUD DIESEL (DAILY/TOTAL 0 / 0
AUXILIARY EQUIPMENT (DAILY/TOTAL): 0 / 0 GALS
NO LEAKS OR SPILLS REPORTED OR OBSERVED

Solids Removal

Shakers

Shaker #	Bottom	Middle	Top

Other Solids Removal Equipment

Item	Hrs Run	Intake Density (lbs/gal)	Overflow Density (lbs/gal)	Underflow Density (lbs/gal)

Mud Log

Formation :
Background Gas :
Trip Calc :
Connection Gas :
Flare Length :

Well Incident

Report # :
Incident Date :
Report Date :
Problem Name :

Daily Drilling Report P1

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 11 Report Date : 3/18/2018

Financials

Daily Cost : $251,179 Cost to Date : $1,192,869

AFE # : PB18100003

AFE : $10,772,650 AFE Cost to Date : $1,192,869

Operations

Event Objective : Noram 27 D&C DB DEV WC A Event Sub Type : Drilling Prod

A.M. Ops : 00:00-06:00 TEST BOP'S, TEST CSG., R/D TESTERS

Ops Forecast : PICK UP INTM. BHA #2, TIH TO F/C @ 4912', DRILL OUT FLOAT EQUIP., DRILL 9.88" INTM. #2 F/4967' TOWARDS KOP

24hr. Summary : RUN 10.75" CSG. F/3100' - T/4967', CMT 10.75" CSG., N/D, SET SLIPS, N/U, TEST BOP'S

Planning Status :

Elevations

GL 2772.00 ft Reserve Pit Freeboard : 0.00 ft

Progress

Days from Spud : 6 Progress : 0.00 ft MD at Report Time : 4967.00 ft

Rig on Location (days) : 11 Est. TD : 21672.00 ft TVD At Report Time : 0.00 ft

Event Dates

Spud Date	Spud Time	Suspended Drilling Date	Resume Drilling Date	Total Depth Date	Total Depth Time	Finished Drilling Date	Finished Drilling Time	Rig Released Date	Rig Released Time
3/12/2018	00:00								

Time Breakdown

Start Time : 00:00 Initial Depth : 0.00 ft Drilling Hours : 0.00 Total Drilling Hours : 59.50 Total Hours : 24.00 Time Code : TEST BOPI

Drilling % : 0.00 Rotating % : 0.00 Sliding % : 0.00

Start Time	End Time	Hours	Phase	Activity Time Code	Activity Description	NPT	Bit #	Run #	Depth (ft)	Remarks
00:00	02:00	2.00	CSGIN1	15B	RUN CASING - CSG/ LNR/ TIEBACK	No			4967.00	RUN 10. 75" CSG., F/ 3100' - T/ 4967', AS FOLLOWS: 1 - 10. 75" - FLOAT SHOE, 1 JT 10. 75" CSG.(CENT. 6' ABOVE SHOE 5' BELOW F/ C), 1 - 10. 75" - FLOAT COLLAR, 110 JTS 10. 75" CSG BACK TO SURF. CENT ON FIRST 3 JTS, THEN EVERY 3RD JT TO SURF.
02:00	10:00	8.00	CSGIN1	28D	WAITING - 3RD - PTY EQUIPMENT	No			4967.00	WAIT ON O- TEX, **** TD @ 10: 00 3 - 17 - 18, CALLED O - TEX @ 11: 19 3 - 17 - 18 FOR A 21: 00 LOCATION ARRIVAL, CALLED O - TEX BACK @ 22: 00 3 - 17 - 18 TRUCKS NOT ON LOCATION YET, O - TEX STARTED RIGGING UP @ 09: 00 3 - 18 - 18
10:00	10:30	0.50	CSGIN1	16A	CEMENTING - RU/RD EQUIPMENT	No			4967.00	R/ U CEMT., HOLD SAFETY MEETING WITH O - TEX
10:30	13:30	3.00	CSGIN1	16B	CEMENTING - PRIMARY	No			4967.00	PUMP CEMENT JOB AS FOLLOWS: TEST LINES TO 3500 PSI 20 BBLS FW SPACER PUMP LEAD: 239BBLS, (460SX, 50% POZ + 50% CLASS C + 10% GEL + . 06% SMS + 0. 2% O - TEX20 + 0. 25#/ SX CELLO FLAKE + 5% SALT + 0. 75- GAL/ 100SX CF - 41L YEILD2. 92, WT. 11. 3PPG. PUMP TAIL: 53BBLS., (225SX, 100% CLASS C + 0. 1% O - TEX20 + 0. 75 - GEL 100 - SX CF - 41L DROP PLUG 472 BBLS F/ W - DISPLACE BUMP PLUG ON TIME @ 13: 30HRS. W/ 1650PSI., FINAL LIFT 1150PSI. CHECK FLOATS: BLED 1. 5BBLS. BACK FULL RETURNS, GOOD PSI. LIFT THROUGHOUT JOB. 0. 0 BBLS CEMENT BACK T/ SURF.
13:30	14:00	0.50	CSGIN1	16A	CEMENTING - RU/RD EQUIPMENT	No			4967.00	R/ D CEMENTERS
14:00	16:00	2.00	CSGIN1	21A	NU / ND BOPE - NU/ ND BOPE	No			4967.00	R/ U WINCHES TO PICK UP STACK, N/ D FLOW LINE, N/ D BETWEEN A AND B SECTION
16:00	17:00	1.00	CSGIN1	37A	WELLHEAD - WELLHEAD INSTALL	No			4967.00	SET SLIPS ON 10. 75" CSG. 250K STRING WT., CUT CSG., LAY DOWN CUT OFF JT.
17:00	19:30	2.50	CSGIN1	21A	NU / ND BOPE - NU/ ND BOPE	No			4967.00	N/ U BOP
19:30	21:30	2.00	CSGIN1	37A	WELLHEAD - WELLHEAD INSTALL	No			4967.00	SET PACK OFF, AND TEST TO 50% OF COLLAPSE 1550PSI
21:30	00:00	2.50	CSGIN1	22A	TEST BOPE - TEST BOPE	No			4967.00	TEST B. O. P., CHOKE, AND RELATED VALVES 250PSI. LOW AND 5000PSI. HIGH, TEST ANNULAR TO 2500PSI./ 250PSI., TEST MUD LINES BACK TO THE PUMP TO 5500PSI., TEST CSG. TO 1500PSI FOR 30MIN

Personnel Hours

Vendor	Vendor Type	Number Of People	Hours On Site	Total Hours
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00
NORAM DRILLING COMPANY	TOOLPUSHER	1	24.00	24.00
NORAM DRILLING COMPANY	RIG CREWS	12	24.00	288.00
AES DRILLING FLUIDS LLC	1- MAN CREW	1	24.00	24.00
PHOENIX DIRECTIONAL DRILLERS	4- MAN CREW	4	24.00	96.00
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00

Rig Information

KB Elevation:	2797.00 ft	KB To GL :	25.00 ft		
Rig(s) for today :	Noram 27	Rig Manager :	TOBY JOHNSON	Rig Phone :	432-219-0731
Date and Time of Rig Release :		Days From Rig Release :	0.00	Rig Fax :	

Safety

Last BOP Test(F) Date :	3/19/2018	Last BOP Pressure :	1500.000 psi	Last Lot Fit :	0.00
Last Csg Date :	3/19/2018	Last Csg Pressure :	250.000 psi	Last Spills Reported :	N
Last BOP Drill Date :		Last Test MW :	0.00	Last Accidents :	N
Last Fire Drill :		Last Test TVD :	0.00 ft	Last Safety Meeting :	3/17/2018 18:00
Last Evac Drill :		Last Test Pressure :	0.000 psi	Last Safety Meeting Topic :	TEST BOP'S

Contacts

Day Sup. :	WAYLON TRAMMELL	Phone :		Superintendent :	SANTOS MOROLES	Phone :	432-559-4901
Night Sup. :	CHRIS KEIS	Phone :		Geologist :		Phone :	
Alt. Phone :				Drill. Eng. :	RICHARD HILL	Phone :	432-818-1726

Attachments

Daily Attachment Folder(s)

Daily Drilling Report P2

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 11 Report Date : 3/18/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Mud Data

Mud Engineer : Smith Mud Type : Brine Polymer Type :

Chk	Time	Depth (ft)	Density (lbs/gal)	FV (s/qt)	YP (lbs/100 ft²)	PV (cP)	WL (cc/30 min)	Cl (ppm)	Electro Static Stability	Oil Ratio	H2O Ratio	HTHP Water Loss(cc/30 min)
1	10:55	4967.0	9.90000	29.00	1	1.00	0.0	16800	0.0	0	0	0.0
2	20:35	4967.0	9.00000	29.00	1	1.00	0.0	75000	0.0	0	0	0.0

Bit Data

Bit #	Run #	Size (in)	Mfg.	Model	IADC Code	Daily Drilled (ft)	Daily Hours	Daily ROP (ft/hr)	Cum Drilled (ft)	Cum Hrs.	Avg. ROP (ft/hr)	Depth In (ft)	Depth Out (ft)	Max WOB (M Lbs)	PSI Drop (psi)	Nozzle Velocity (ft/s)	HHP (HP)
3	1	9.880	ULTERRA	U616M		0.00	0.00	0.00	0.00	0.00	0.00	4967.00	4967.00	0.000	0.000	0.00	0.00

BHA Data

For Bit # : 3 Mud Motor : Total Made : 0 ft

Total BHA Hours : 62.0 Total Hours : 0.00

BHA # : 03 DC OD : 6.500 in DP OD : 5.000 in BHA Length : 1016.33 ft BHA Weight 0.00 M Lbs

Item	Jts	Length (ft)	OD (in)	ID (in)	Coupling OD (in)	Weight (lbs/ft)	Thread Type	Pin/Box
BITS	1	1.00	9.880	0.000	0.000	0.000	6- 5/8REG	Pin
MUD MOTOR	1	27.43	7.750	0.000	8.650	0.000	6- 5/8REG	Box
SHOCK SUB	1	14.48	8.000	2.810	7.810	0.000	6- 5/8REG	Box
NON- MAG COLLAR	1	11.14	8.000	3.250	8.060	0.000	6- 5/8REG	Box
MWD TOOLS	1	1.54	8.000	3.250	8.000	0.000	6- 5/8REG	Box
SUBS	1	3.75	8.060	0.000	8.250	0.000	6- 5/8REG	Box
SUBS	1	8.53	8.060	0.000	8.060	0.000	6- 5/8REG	Box
GAP SUB	1	3.56	8.060	0.000	8.060	0.000	6- 5/8REG	Box
NON- MAG COLLAR	1	29.84	8.000	3.310	8.000	0.000	6- 5/8REG	Box
CROSSOVER SUB	1	3.33	6.500	2.880	7.940	0.000	4- 1/2XH	Box
COLLARS	15	453.97	6.500	2.750	0.000	0.000	4- 1/2XH	Box
CROSSOVER SUB	1	3.02	6.500	2.875	6.563	0.000	4- 1/2IF	Box
HWDP	15	454.74	5.000	3.000	0.000	0.000	4- 1/2IF	Box

Drilling Parameters

Bit #	Run #	Depth (ft)	WOB (M Lbs)	RPM		GPM	Torque		String Weight			Pressure		
				Motor	Rotary		On Bom (ft lbf)	Off Bom (ft lbf)	Pick Up (lbs)	Stack Off (lbs)	Rotate (lbs)	On Bom (psi)	Off Bom (psi)	Diff Press. (psi)
3	1	0.00	0.000	0	0	0	0.00	0.00	0	0	0	0.0	0.0	0.0

Pump Data

Bit #	Pump 1					Pump 2					Pump Pressure (psi)	AV DC (ft/min)	AV DP (ft/min)
	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)			
3		0.000	0.000	0	0.000		0.000	0.000	0	0.000	0.00	0	0

Reduced Speed Pumps

Depth(ft)	Pump 1			Pump 2		
	Model	Pressure (psi)	SPM	Model	Pressure (psi)	SPM
0.00	CE FB1600	130.0	30	CE FB1600	130.0	30

Daily Drilling Report P3

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 11 Report Date : 3/18/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Drill Bottom Hole Targets

Bottom Hole Location	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Survey Data

Depth (ft)	Deviation	Azimuth	TVD (ft)	N/S	N/S (ft)	E/W	E/W (ft)	Vertical Section (ft)	Dog Leg

Hook Loads

Up :	0	
Down :	0	
Rotating :	0	
Torque :	0	Amps
Torque :	0.00	ft lbf

Comments

UL 20 STRIPES 38-47 602H
RIG MOBILIZATION BEGAN - 03/08/2018 @ 00:00 HRS
SPUD WELL @ 00:00 HRS ON 03/12/2018
(96 HR RIG MOVE, NO DIVERTER)
TOTAL HRS FROM SPUD: 168 HRS (7 DAYS)

NOTIFIED TRRC FOR SPUD @ 11:45 HRS 03/10/2018(OPERATOR #2 AUDREY)
NOTIFIED TRRC FOR SURFACE CSG & CEMENT W/ TRRC JOB #2 AUDREY @ 1145 HRS 03/10/2018
NOTIFIED TRRC FOR INTERMEDIATE CSG & CMT, JOB # (OPERATOR #4 DIANA) @ 02:07 HRS 03/17/2018, DIANA OPERATOR #4.
NOTIFIED TRRC FOR 2ND INTERMEDIATE CMT, JOB # XXX @ XXX HRS, 03/XX/2018, XXX OPERATOR #X

LAST 5" DP INSP. (Red river) CAT- 4 W/ SHEAR WAVE – 03/08/2018.
421 jts kept w/Rig
33 jts sent to fishing tools
128 jts sent to NorAm yard
7 jts. down grade to Energen yd
Sent 16 jts & 1 lift sub to fishing tools

CLEAN/VISUAL INSPECT 742 JTS 4 1/2" DS-42, XX-XX-2018, XXX INSPECTION
742 JTS ACCEPTED BOTH ENDS AS PREMIUM
DAYS SINCE LAST LTA: (XXX DAYS):
CREW SHORTAGES (LAST 24HRS / TOTAL HRS): NO/NO
CREW DOUBLES (LAST 24 HRS / TOTAL HRS): NO/NO
DOWN TIME HRS (LAST 24HRS / TOTAL HRS): 0 / 0
NON PRODUCTIVE TIME (LAST 24HRS / TOTAL HRS): 0/14.5

OBM LOST TO WELL (LAST 24 HRS / TOTAL BBLS): 00 - BBLS / 00- BBL
OBM LOST: 0- BBLS TO FORMATION
OBM LOST: 0-BBLS TO CUTTINGS

13-3/8" 61# HCK-55 BTC SURFACE SET AT 437'
10-3/4"45.5# HCN-80 BTC INTERMEDIATE SET AT XXX'

7-5/8" 29.7# HCP-110 BTC SECOND INTERMEDIATE SET @ XXX' MD, XXX' TVD

INTERMEDIATE #2
9.88" ULTERRA 616M, W/6x16's TFA: 1.1781 // PHOENIX MTR 7.75", 7/8 4.0,1.5° BENT SLICK SLEEVE. 0.166 RPG - // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15 JTS 5" HWDP// TOTAL BHA = 1016.33' // DEPTH IN: 4967' DEPTH OUT: XXXX' // FTG DRILLED: XXXX' // TOTAL DRLG HRS: XXXX // TOTAL MTR HRS: XXXX AVG ROP: XX' FPH // REASON PULLED: XX INTM #1 // XXXX

INTERMEDIATE #1
12.25" ULTERRA CF616S, W/6x16's TFA: 1.1781 // PHOENIX MTR 7.75", 7/8 4.0,1.5° BENT STAB. 0.166 RPG - // 11.75" NORTRAK STAB // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 11.75 NORTRAK STAB // 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15 JTS 5" HWDP// TOTAL BHA = 1026.98' // DEPTH IN: 450 DEPTH OUT: 4967' // FTG DRILLED: 4517' // TOTAL DRLG HRS: 59.5 // TOTAL MTR HRS: 60.5 AVG ROP: 81' FPH // REASON PULLED: TD INTM #1 // 1-1-CT-N-I-NO-TD

SURFACE #1
17.5" ULTERRA U616S, W/9x16's TFA: 1.767 // TDI DIRECTIONAL MTR 9-5/8", 5/6 4.0,1.5° BENT SLICK 0.107 RPG - // IBS // MWD EXTREME // UBHO // 8" NMDC //17.25" NM IBS//8" NMDC//FILTER SUB// 8" SHOCK SUB // 12 - 8" DC // 1- XO SUBS //12- JTS 6.5" DC//XO// 15 JTS HWDP// TOTAL BHA = 1305.77 // DEPTH IN: 145 DEPTH OUT: 450' // FTG DRILLED: 305' // TOTAL DRLG HRS: 8 // TOTAL MTR HRS: 11 AVG ROP: 38.1' FPH // REASON PULLED: CSG POINT // 1/1 BIT GRADE: 1-1-NO-A-I-NO-TD

STARTING RIG FUEL - 3200 GALLONS TRANSFERRED IN .

DIESEL USAGE:
RIG FUEL (DAILY/TOTAL): 186/18,238
MUD DIESEL (DAILY/TOTAL 0 / 0
AUXILIARY EQUIPMENT (DAILY/TOTAL): 87/ 239 GALS
NO LEAKS OR SPILLS REPORTED OR OBSERVED

Solids Removal

Shakers

Shaker #	Bottom	Middle	Top

Other Solids Removal Equipment

Item	Hrs Run	Intake Density (lbs/gal)	Overflow Density (lbs/gal)	Underflow Density (lbs/gal)

Mud Log

Formation :
Background Gas :
Trip Calc :
Connection Gas :
Flare Length :

Well Incident

Report # :
Incident Date :
Report Date :
Problem Name :

Daily Drilling Report P1

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 12 Report Date : 3/19/2018

Financials

Daily Cost : $63,130 Cost to Date : $1,255,998

AFE # : PB18100003

AFE : $10,772,650 AFE Cost to Date : $1,255,998

Operations

Event Objective : Noram 27 D&C DB DEV WC A Event Sub Type : Drilling Prod

A.M. Ops : 00:00-06:00 DRILL 9.875" INTM. #2 F/5383' - T/6200'

Ops Forecast : DRILL 9.875" INTM. #2 F/6200' - TOWARDS KOP

24hr. Summary : TEST BOP, CHOKE, RELATED VALVES, AND CSG., SET WEAR BUSHING, P/U INTM, #2 9.875" BHA AND TEST, TIH F/SURF. - T/4816, TAGGED CMT. AT 4816', DRILL FLOAT EQUIP. AND SHOE TRAC., DRILL 9.875" INTM. #2 F/4967' - T/5383'

Planning Status :

Elevations

GL 2772.00 ft Reserve Pit Freeboard : 0.00 ft

Progress

Days from Spud : 7 Progress : 416.00 ft MD at Report Time : 5383.00 ft

Rig on Location (days) : 12 Est. TD : 21672.00 ft TVD At Report Time : 0.00 ft

Event Dates

Spud Date	Spud Time	Suspended Drilling Date	Resume Drilling Date	Total Depth Date	Total Depth Time	Finished Drilling Date	Finished Drilling Time	Rig Released Date	Rig Released Time
3/12/2018	00:00								

Time Breakdown

Start Time : 00:00 Initial Depth : 0.00 ft Drilling Hours : 4.00 Total Drilling Hours : 63.50 Total Hours : 24.00 Time Code : DRILLING -

Drilling % : 16.67 Rotating % : 75.00 Sliding % : 25.00

Start Time	End Time	Hours	Phase	Activity		NPT	Bit #	Run #	Depth (ft)	Remarks
				Time Code	Description					
00:00	06:00	6.00	CSGIN1	22A	TEST BOPE - TEST BOPE	No			4967.00	TEST B. O. P., CHOKE, AND RELATED VALVES 250PSI. LOW AND 5000PSI. HIGH, TEST ANNULAR TO 2500PSI./ 250PSI., TEST MUD LINES BACK TO THE PUMP TO 5500PSI., TEST CSG. TO 1500PSI. FOR 30MIN. - ALL TEST GOOD
06:00	07:00	1.00	CSGIN1	21B	NU / ND BOPE - RUN/ PULL BOPE	No			4967.00	INSTALL WEAR BUSHING AND MOUSEHOLE - CLEAR FLOOR
07:00	08:30	1.50	CSGIN1	08A	TRIPPING - BIT/ BHA	No			4967.00	P/ U, M/ U, SCRIBE, AND TEST BHA # 3CONSISTING OF: 9. 875" ULTERRA U616M, W/ 3x16' s & 3 x 18' S TFA: 1. 33 // 7. 75" PHOENIX MTR. 1. 5° ADJ., (7/ 8LOBE, 4. 0 STG., . 166 REV/ GAL) // 8" SHOCK SUB // 8" SLICK NON - MAG DC // 8" MWD VELOCITY // 8" SLICK NON- MAG DC// 1 - XO SUBS // 15 - 6. 5" DC // 1 - XO SUBS // 15JTS. 5" HWDP // TOTAL BHA = 1016. 33'
08:30	11:30	3.00	CSGIN1	08A	TRIPPING - BIT/ BHA	No			4967.00	TIH F/ SURF - T/ 1771'
11:30	15:00	3.50	CSGIN1	35V	TROUBLE - RIG FAILURE	Yes			4967.00	REPAIR TD
15:00	15:30	0.50	CSGIN1	10A	LUB RIG - DAILY SERVICE	No			4967.00	RIG SERVICE
15:30	18:00	2.50	CSGIN1	08A	TRIPPING - BIT/ BHA	No			4967.00	TIH F/ 1771' - T/ 4816' TAGGED HARD CEMT. @ 4816'
18:00	20:00	2.00	CSGIN1	08A	TRIPPING - BIT/ BHA	No			4967.00	DRILL CMT. F/ 4816' - T/ 4967', DRILL F/ C, SHOE TRAC AND SHOE, F/ C @ 4911', SHOE @ 4961'
20:00	21:30	1.50	DRLIN2	02B	DRILLING - MTR/TURB - VERT	No	3		5071.00	DRLG 9. 875' INTERM # 2 F/ 4967' T/ 5071' (104 @ 70'/ HR) WOB 25 - 30, ROT 55 - 65, RPG 75 - 91, GPM 450 - 550, SPM 110 - 130, SPP 1600, DIFF 350, TQ 9K FT LBS, DRLG THROUGH FLOW LINE W/ 100% RET
21:30	22:00	0.50	DRLIN2	02M	DRILLING - DRILLING - SLIDING	No	3		5099.00	SLIDE DRLG 9. 875' INTERM # 2 F/ 5071' T/ 5099' (28' @ 56'/ HR) WOB 30, RPG 97, GPM 586, SPM 140, SPP 1550, DIFF 200, W/ 330 MAG T/ F, DRLG THROUGH FLOW LINE W/ 100% RET
22:00	23:30	1.50	DRLIN2	02B	DRILLING - MTR/TURB - VERT	No	3		5363.00	DRLG 9. 875' INTERM # 2 F/ 5099' T/ 5363' (264 @ 176'/ HR) WOB 30, ROT 70, RPG 111, GPM 670, SPM 160, SPP 2100, DIFF 300, TQ 9K FT LBS, DRLG THROUGH FLOW LINE W/ 100% RET
23:30	00:00	0.50	DRLIN2	02M	DRILLING - DRILLING - SLIDING	No	3		5383.00	SLIDE DRLG 9. 875' INTERM # 2 F/ 5363' T/ 5383' (20' @ 40'/ HR) WOB 30, RPG 111, GPM 670, SPM 160, SPP 1800, DIFF 100, W/ 260 MAG T/ F, DRLG THROUGH FLOW LINE W/ 100% RET

Personnel Hours

Vendor	Vendor Type	Number Of People	Hours On Site	Total Hours
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00
NORAM DRILLING COMPANY	TOOLPUSHER	1	24.00	24.00
NORAM DRILLING COMPANY	RIG CREWS	12	24.00	288.00
AES DRILLING FLUIDS LLC	1- MAN CREW	1	24.00	24.00
PHOENIX DIRECTIONAL DRILLERS	4- MAN CREW	4	24.00	96.00
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00

Rig Information

KB Elevation:	2797.00 ft	KB To GL :	25.00 ft		
Rig(s) for today :	Noram 27	Rig Manager :	TOBY JOHNSON	Rig Phone :	432-219-0731
Date and Time of Rig Release :		Days From Rig Release :	0.00	Rig Fax :	

Safety

Last BOP Test(F) Date :	3/19/2018	Last BOP Pressure :	1500.000 psi	Last Lot Fit :	0.00
Last Csg Date :	3/19/2018	Last Csg Pressure :	250.000 psi	Last Spills Reported :	N
Last BOP Drill Date :		Last Test MW :	0.00	Last Accidents :	N
Last Fire Drill :		Last Test TVD :	0.00 ft	Last Safety Meeting :	3/17/2018 18:00
Last Evac Drill :		Last Test Pressure :	0.000 psi	Last Safety Meeting Topic	TEST BOP'S

Contacts

Day Sup. :	WAYLON TRAMMELL	Phone :		Superintendent :	SANTOS MOROLES	Phone :	432-559-4901
Night Sup. :	CHRIS KEIS	Phone :		Geologist :		Phone :	
Alt. Phone :				Drill. Eng. :	RICHARD HILL	Phone :	432-818-1726

Attachments

Daily Attachment Folder(s)

Daily Drilling Report P2

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 12 Report Date : 3/19/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Mud Data

Mud Engineer : J. BENGE Mud Type : Brine Polymer Type :

Chk	Time	Depth (ft)	Density (lbs/gal)	FV (s/qt)	YP (lbs/100 ft²)	PV (cP)	WL (cc/30 min)	Cl (ppm)	Electro Static Stability	Oil Ratio	H2O Ratio	HTHP Water Loss(cc/30 min)
1	22:00	5072.0	9.00000	29.00	1	1.00	0.0	0	0.0	0	96	0.0

Bit Data

Bit #	Run #	Size (in)	Mfg.	Model	IADC Code	Daily Drilled (ft)	Daily Hours	Daily ROP (ft/hr)	Cum Drilled (ft)	Cum Hrs.	Avg. ROP (ft/hr)	Depth In (ft)	Depth Out (ft)	Max WOB (M Lbs)	PSI Drop (psi)	Nozzle Velocity (ft/s)	HHP (HP)
3	1	9.875	ULTERRA	U616M		0.00	0.00	0.00	0.00	0.00	0.00	4967.00	5383.00	30.000	208.71	161.03	81.60

BHA Data

For Bit # : 3 Mud Motor : Total Made : 416 ft

Total BHA Hours : 66.0 Total Hours : 0.00

BHA # : 03 DC OD : 8.000 in DP OD : 5.000 in BHA Length : 1016.33 ft BHA Weight 0.00 M Lbs

Item	Jts	Length (ft)	OD (in)	ID (in)	Coupling OD (in)	Weight (lbs/ft)	Thread Type	Pin/Box
BITS	1	1.00	9.880	0.000	0.000	0.000	6- 5/8REG	Pin
MUD MOTOR	1	27.43	7.750	0.000	8.650	0.000	6- 5/8REG	Box
SHOCK SUB	1	14.48	8.000	2.810	7.810	0.000	6- 5/8REG	Box
NON- MAG COLLAR	1	11.14	8.000	3.250	8.060	0.000	6- 5/8REG	Box
MWD TOOLS	1	1.54	8.000	3.250	8.000	0.000	6- 5/8REG	Box
SUBS	1	3.75	8.060	0.000	8.250	0.000	6- 5/8REG	Box
SUBS	1	8.53	8.060	0.000	8.060	0.000	6- 5/8REG	Box
GAP SUB	1	3.56	8.060	0.000	8.060	0.000	6- 5/8REG	Box
NON- MAG COLLAR	1	29.84	8.000	3.310	8.000	0.000	6- 5/8REG	Box
CROSSOVER SUB	1	3.33	6.500	2.880	7.940	0.000	4- 1/2XH	Box
COLLARS	15	453.97	6.500	2.750	0.000	0.000	4- 1/2XH	Box
CROSSOVER SUB	1	3.02	6.500	2.875	6.563	0.000	4- 1/2IF	Box
HWDP	15	454.74	5.000	3.000	0.000	0.000	4- 1/2IF	Box

Drilling Parameters

Bit #	Run #	Depth (ft)	WOB (M Lbs)	RPM		GPM	Torque		String Weight			Pressure		
				Motor	Rotary		On Bom (ft lbf)	Off Bom (ft lbf)	Pick Up (lbs)	Stack Off (lbs)	Rotate (lbs)	On Bom (psi)	Off Bom (psi)	Diff Press. (psi)
3	1	0.00	30.000	111	70	670	9.00	1.00	215	195	205	2100.0	1800.0	300.0

Pump Data

Bit #	Pump 1					Pump 2					Pump Pressure (psi)	AV DC (ft/min)	AV DP (ft/min)
	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)			
3	CE FB1600	12.000	6.000	80	334.923	CE FB1600	12.000	6.000	80	334.923	1800.00	490	226

Reduced Speed Pumps

Depth(ft)	Pump 1			Pump 2		
	Model	Pressure (psi)	SPM	Model	Pressure (psi)	SPM
0.00	CE FB1600	0.0	0	CE FB1600	0.0	0

Daily Drilling Report P3

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 12 Report Date : 3/19/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Drill Bottom Hole Targets

Bottom Hole Location	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Survey Data

Depth (ft)	Deviation	Azimuth	TVD (ft)	N/S	N/S (ft)	E/W	E/W (ft)	Vertical Section (ft)	Dog Leg
5008.00	2.01	143.8	5007.32	N	4.87	E	23.76	1.97	0.17
5102.00	0.23	68.7	5101.30	N	3.61	E	24.91	3.50	2.06
5196.00	0.80	24.1	5195.29	N	4.27	E	25.35	2.98	0.69
5291.00	0.80	19.7	5290.28	N	5.50	E	25.84	1.94	0.06

Hook Loads

Up :	215	
Down :	195	
Rotating :	205	
Torque :	0	Amps
Torque :	9000.00	ft lbf

Comments

UL 20 STRIPES 38-47 602H
RIG MOBILIZATION BEGAN - 03/08/2018 @ 00:00 HRS
SPUD WELL @ 00:00 HRS ON 03/12/2018
(96 HR RIG MOVE, NO DIVERTER)
TOTAL HRS FROM SPUD: 192 HRS (8 DAYS)

NOTIFIED TRRC FOR SPUD @ 11:45 HRS 03/10/2018 (OPERATOR #2 AUDREY)
NOTIFIED TRRC FOR SURFACE CSG & CEMENT W/ TRRC JOB #2 AUDREY @ 1145 HRS 03/10/2018
NOTIFIED TRRC FOR INTERMEDIATE CSG & CMT, JOB # (OPERATOR #4 DIANA) @ 02:07 HRS 03/17/2018, DIANA OPERATOR #4.
NOTIFIED TRRC FOR 2ND INTERMEDIATE CMT, JOB # XXX @ XXX HRS, 03/XX/2018, XXX OPERATOR #X

LAST 5" DP INSP. (Red river) CAT- 4 W/ SHEAR WAVE – 03/08/2018.
421 jts kept w/Rig
33 jts sent to fishing tools
128 jts sent to NorAm yard
7 jts. down grade to Energen yd
Sent 16 jts & 1 lift sub to fishing tools

CLEAN/VISUAL INSPECT 742 JTS 4 1/2" DS-42, XX-XX-2018, XXX INSPECTION
742 JTS ACCEPTED BOTH ENDS AS PREMIUM
DAYS SINCE LAST LTA: (XXX DAYS):
CREW SHORTAGES (LAST 24HRS / TOTAL HRS): NO/NO
CREW DOUBLES (LAST 24 HRS / TOTAL HRS): NO/NO
DOWN TIME HRS (LAST 24HRS / TOTAL HRS): 3.5/ 3.5
NON PRODUCTIVE TIME (LAST 24HRS / TOTAL HRS): 3.5/18

OBM LOST TO WELL (LAST 24 HRS / TOTAL BBLS): 00 - BBLS / 00- BBL
OBM LOST: 0- BBLS TO FORMATION
OBM LOST: 0-BBLS TO CUTTINGS

13-3/8" 61# HCK-55 BTC SURFACE SET AT 437'
10-3/4"45.5# HCN-80 BTC INTERMEDIATE SET AT 4962'

7-5/8" 29.7# HCP-110 BTC SECOND INTERMEDIATE SET @ XXX' MD, XXX' TVD

INTERMEDIATE #2
9.875" ULTERRA 616M, W/6x16's TFA: 1.1781 // PHOENIX MTR 7.75", 7/8 4.0,1.5° BENT SLICK SLEEVE. 0.166 RPG - // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15 JTS 5" HWDP// TOTAL BHA = 1016.33' // DEPTH IN: 4967' DEPTH OUT: XXXX' // FTG DRILLED: XXXX' // TOTAL DRLG HRS: XXXX // TOTAL MTR HRS: XXXX AVG ROP: XX' FPH // REASON PULLED: XX INTM #1 // XXXX

INTERMEDIATE #1
12.25" ULTERRA CF616S, W/6x16's TFA: 1.1781 // PHOENIX MTR 7.75", 7/8 4.0,1.5° BENT STAB. 0.166 RPG - // 11.75" NORTRAK STAB // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 11.75 NORTRAK STAB // 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15 JTS 5" HWDP// TOTAL BHA = 1026.98' // DEPTH IN: 450 DEPTH OUT: 4967' // FTG DRILLED: 4517' // TOTAL DRLG HRS: 59.5 // TOTAL MTR HRS: 60.5 AVG ROP: 81' FPH // REASON PULLED: TD INTM #1 // 1-1-CT-N-I-NO-TD

SURFACE #1
17.5" ULTERRA U616S, W/9x16's TFA: 1.767 // TDI DIRECTIONAL MTR 9-5/8", 5/6 4.0,1.5° BENT SLICK 0.107 RPG - // IBS // MWD EXTREME // UBHO // 8" NMDC //17.25" NM IBS//8" NMDC//FILTER SUB// 8" SHOCK SUB // 12 - 8" DC // 1- XO SUBS //12- JTS 6.5" DC//XO// 15 JTS HWDP// TOTAL BHA = 1305.77 // DEPTH IN: 145 DEPTH OUT: 450' // FTG DRILLED: 305' // TOTAL DRLG HRS: 8 // TOTAL MTR HRS: 11 AVG ROP: 38.1' FPH // REASON PULLED: CSG POINT // 1/1 BIT GRADE: 1-1-NO-A-I-NO-TD

STARTING RIG FUEL - 3200 GALLONS TRANSFERRED IN .

DIESEL USAGE:
RIG FUEL (DAILY/TOTAL): 743/18,981
MUD DIESEL (DAILY/TOTAL 0 / 0
AUXILIARY EQUIPMENT (DAILY/TOTAL): 99/ 338 GALS
NO LEAKS OR SPILLS REPORTED OR OBSERVED

Solids Removal

Shakers

Shaker #	Bottom	Middle	Top

Other Solids Removal Equipment

Item	Hrs Run	Intake Density (lbs/gal)	Overflow Density (lbs/gal)	Underflow Density (lbs/gal)

Mud Log

Formation :
Background Gas :
Connection Gas :
Flare Length :
Trip Calc :

Well Incident

Report # :
Incident Date :
Report Date :
Problem Name :

Daily Drilling Report P1

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 13 Report Date : 3/20/2018

Financials

Daily Cost : $82,625 Cost to Date : $1,349,785

AFE # : PB18100003

AFE : $10,772,650 AFE Cost to Date : $1,349,785

Operations

Event Objective : Noram 27 D&C DB DEV WC A Event Sub Type : Drilling Prod

A.M. Ops : 00:00-06:00 DRILL 9.875" INTM. #2 F/8135' - T/8435' (300' - 54FPH)

Ops Forecast : DRILL 9.875" INTM. #2 F/8435' - TOWARDS KOP

24hr. Summary : DRLG 9.875' INTERM #2 F/5383' T/8135' (2752' @ 112'/HR), SERVICE RIG

Planning Status :

Elevations

GL 2772.00 ft Reserve Pit Freeboard : 0.00 ft

Progress

Days from Spud : 8 Progress : 2752.00 ft MD at Report Time : 8135.00 ft

Rig on Location (days) : 13 Est. TD : 21672.00 ft TVD At Report Time : 0.00 ft

Event Dates

Spud Date	Spud Time	Suspended Drilling Date	Resume Drilling Date	Total Depth Date	Total Depth Time	Finished Drilling Date	Finished Drilling Time	Rig Released Date	Rig Released Time
3/12/2018	00:00								

Time Breakdown

Start Time : 00:00 Initial Depth : 0.00 ft Drilling Hours : 23.50 Total Drilling Hours : 87.00 Total Hours : 24.00 Time Code : DRILLING -

Drilling % : 97.92 Rotating % : 97.87 Sliding % : 2.13

Start Time	End Time	Hours	Phase	Activity		NPT	Bit #	Run #	Depth (ft)	Remarks
				Time Code	Description					
00:00	05:00	5.00	DRLIN2	02B	DRILLING - MTR/TURB - VERT	No	3	1	6120.00	DRLG 9.875" INTERM#2 F/5383' T/6120' (737' @ 147'/HR) WOB 30, ROT 70, RPG 111, GPM 670, SPM 160, SPP 2100, DIFF 300, TQ 9K FT LBS, DRLG THROUGH FLOW LINE W/ 100% RET
05:00	05:30	0.50	DRLIN2	02M	DRILLING - DRILLING - SLIDING	No	3	1	6135.00	SLIDE DRLG 9.875" INTERM#2 F/6120' T/6135' (15' @ 30'/HR) WOB 30, RPG 111, GPM 670, SPM 160, SPP 1800, DIFF 100, W/ 260 MAG T/F, DRLG THROUGH FLOW LINE W/ 100% RET
05:30	10:00	4.50	DRLIN2	02B	DRILLING - MTR/TURB - VERT	No	3	1	6815.00	DRLG 9.875" INTERM#2 F/6135' T/6815' (680' @ 151'/HR) WOB 30, ROT 60, RPG 111, GPM 670, SPM 160, SPP 2250, DIFF 350, TQ 12K FT LBS, DRLG THROUGH FLOW LINE W/ 100% RET
10:00	14:00	4.00	DRLIN2	02B	DRILLING - MTR/TURB - VERT	No	3	1	7378.00	DRLG 9.875" INTERM#2 F/6815' T/7378' (563' @ 141'/HR) WOB 32, ROT 50, RPG 111, GPM 670, SPM 160, SPP 2300, DIFF 350, TQ 12K FT LBS, DRLG THROUGH FLOW LINE W/ 100% RET
14:00	16:00	2.00	DRLIN2	02B	DRILLING - MTR/TURB - VERT	No	3	1	7624.00	DRLG 9.875" INTERM#2 F/7378' T/7624' (246' @ 123'/HR) WOB 32, ROT 50, RPG 111, GPM 670, SPM 160, SPP 2300, DIFF 350, TQ 12K FT LBS, DRLG THROUGH FLOW LINE W/ 100% RET
16:00	16:30	0.50	DRLIN2	10A	LUB RIG - DAILY SERVICE	No	3		7624.00	RIG SERVICE
16:30	18:00	1.50	DRLIN2	02B	DRILLING - MTR/TURB - VERT	No	3	1	7744.00	DRLG 9.875" INTERM#2 F/7624' T/7744' (120' @ 60'/HR) WOB 32, ROT 50, RPG 111, GPM 670, SPM 160, SPP 2300, DIFF 350, TQ 12K FT LBS, DRLG THROUGH FLOW LINE W/ 100% RET
18:00	22:00	4.00	DRLIN2	02B	DRILLING - MTR/TURB - VERT	No	3	1	8020.00	DRLG 9.875" INTERM#2 F/7744' T/8020' (276' @ 69'/HR) WOB 32, ROT 50, RPG 104, GPM 628, SPM 150, SPP 2300, DIFF 400, TQ 10K FT LBS, DRLG THROUGH FLOW LINE W/ 100% RET
22:00	00:00	2.00	DRLIN2	02B	DRILLING - MTR/TURB - VERT	No	3	1	8135.00	DRLG 9.875" INTERM#2 F/8020' T/8135' (115' @ 57'/HR) WOB 32, ROT 50, RPG 104, GPM 628, SPM 150, SPP 2100, DIFF 300, TQ 10K FT LBS, DRLG THROUGH FLOW LINE W/ 100% RET

Personnel Hours

Vendor	Vendor Type	Number Of People	Hours On Site	Total Hours
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00
NORAM DRILLING COMPANY	TOOLPUSHER	1	24.00	24.00
NORAM DRILLING COMPANY	RIG CREWS	12	24.00	288.00
AES DRILLING FLUIDS LLC	1- MAN CREW	1	24.00	24.00
PHOENIX DIRECTIONAL DRILLERS	4- MAN CREW	4	24.00	96.00
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00

Rig Information

KB Elevation: 2797.00 ft KB To GL : 25.00 ft

Rig(s) for today : Noram 27 Rig Manager : TOBY JOHNSON Rig Phone : 432-219-0731

Date and Time of Rig Release : Days From Rig Release : 0.00 Rig Fax :

Safety

Last BOP Test(F) Date : 3/19/2018 Last BOP Pressure : 1500.000 psi Last Lot Fit : 0.00

Last Csg Date :	3/19/2018	Last Csg Pressure :	250.000	psi	Last Spills Reported :		
Last BOP Drill Date :		Last Test MW :	0.00		Last Accidents :		
Last Fire Drill :		Last Test TVD :	0.00	ft	Last Safety Meeting :	3/17/2018 18:00	
Last Evac Drill :		Last Test Pressure :	0.000	psi	Last Safety Meeting Topic	TEST BOP'S	

Contacts

Day Sup. :	JONAS HALDEMAN	Phone :	903-571-6771	Superintendent :	SANTOS MOROLES	Phone :	432-559-4901
Night Sup. :	CHRIS KEIS	Phone :		Geologist :		Phone :	
Alt. Phone :				Drill. Eng. :	RICHARD HILL	Phone :	432-818-1726

Attachments

Daily Attachment Folder(s)

Daily Drilling Report P2

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 13 Report Date : 3/20/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Mud Data

Mud Engineer : J. BENGE Mud Type : Brine Polymer Type :

Chk	Time	Depth (ft)	Density (lbs/gal)	FV (s/qt)	YP (lbs/100 ft²)	PV (cP)	WL (cc/30 min)	Cl (ppm)	Electro Static Stability	Oil Ratio	H2O Ratio	HTHP Water Loss(cc/30 min)
1	22:15	8006.0	9.20000	28.00	1	1.00	100.0	81000	0.0	0	95	0.0

Bit Data

Bit #	Run #	Size (in)	Mfg.	Model	IADC Code	Daily Drilled (ft)	Daily Hours	Daily ROP (ft/hr)	Cum Drilled (ft)	Cum Hrs.	Avg. ROP (ft/hr)	Depth In (ft)	Depth Out (ft)	Max WOB (M Lbs)	PSI Drop (psi)	Nozzle Velocity (ft/s)	HHP (HP)
3	1	9.875	ULTERRA	U616M		2752.0	23.50	117.11	3168.00	27.50	115.20	5383.00	8135.00	30.000	187.519	150.97	68.73

BHA Data

For Bit # : 3 Mud Motor : Total Made : 2752 ft

Total BHA Hours : 89.5 Total Hours : 23.50

BHA # : 03 DC OD : 6.500 in DP OD : 5.000 in BHA Length : 1016.33 ft BHA Weight 0.00 M Lbs

Item	Jts	Length (ft)	OD (in)	ID (in)	Coupling OD (in)	Weight (lbs/ft)	Thread Type	Pin/Box
BITS	1	1.00	9.880	0.000	0.000	0.000	6- 5/8REG	Pin
MUD MOTOR	1	27.43	7.750	0.000	8.650	0.000	6- 5/8REG	Box
SHOCK SUB	1	14.48	8.000	2.810	7.810	0.000	6- 5/8REG	Box
NON- MAG COLLAR	1	11.14	8.000	3.250	8.060	0.000	6- 5/8REG	Box
MWD TOOLS	1	1.54	8.000	3.250	8.000	0.000	6- 5/8REG	Box
SUBS	1	3.75	8.060	0.000	8.250	0.000	6- 5/8REG	Box
SUBS	1	8.53	8.060	0.000	8.060	0.000	6- 5/8REG	Box
GAP SUB	1	3.56	8.060	0.000	8.060	0.000	6- 5/8REG	Box
NON- MAG COLLAR	1	29.84	8.000	3.310	8.000	0.000	6- 5/8REG	Box
CROSSOVER SUB	1	3.33	6.500	2.880	7.940	0.000	4- 1/2XH	Box
COLLARS	15	453.97	6.500	2.750	0.000	0.000	4- 1/2XH	Box
CROSSOVER SUB	1	3.02	6.500	2.875	6.563	0.000	4- 1/2IF	Box
HWDP	15	454.74	5.000	3.000	0.000	0.000	4- 1/2IF	Box

Drilling Parameters

Bit #	Run #	Depth (ft)	WOB (M Lbs)	RPM		GPM	Torque		String Weight			Pressure		
				Motor	Rotary		On Bom (ft lbf)	Off Bom (ft lbf)	Pick Up (lbs)	Stack Off (lbs)	Rotate (lbs)	On Bom (psi)	Off Bom (psi)	Diff Press. (psi)
3	1	8135.00	30.000	111	70	670	9.00	1.00	215	195	205	2100.0	1800.0	300.0

Pump Data

Bit #	Pump 1					Pump 2					Pump Pressure (psi)	AV DC (ft/min)	AV DP (ft/min)
	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)			
3	CE FB1600	12.000	6.000	75	313.990	CE FB1600	12.000	6.000	75	313.990	2100.00	278	212

Reduced Speed Pumps

Depth(ft)	Pump 1			Pump 2		
	Model	Pressure (psi)	SPM	Model	Pressure (psi)	SPM
0.00	CE FB1600	0.0	0	CE FB1600	0.0	0

Daily Drilling Report P3

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 13 Report Date : 3/20/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Drill Bottom Hole Targets

Bottom Hole Location	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Survey Data

Depth (ft)	Deviation	Azimuth	TVD (ft)	N/S	N/S (ft)	E/W	E/W (ft)	Vertical Section (ft)	Dog Leg
5385.00	0.14	287.7	5384.28	N	6.16	E	25.96	1.34	0.86
5479.00	0.49	234.3	5478.28	N	5.96	E	25.52	1.41	0.44
5573.00	0.52	234.3	5572.27	N	5.47	E	24.85	1.69	0.03
5668.00	0.47	239.7	5667.27	N	5.02	E	24.16	1.93	0.07
5763.00	0.53	221.1	5762.27	N	4.50	E	23.54	2.26	0.18
5857.00	0.47	223.6	5856.26	N	3.89	E	22.99	2.69	0.07
5952.00	0.40	204.2	5951.26	N	3.31	E	22.58	3.14	0.17
6046.00	0.38	200.0	6045.26	N	2.71	E	22.34	3.64	0.04
6141.00	1.34	228.6	6140.25	N	1.68	E	21.40	4.37	1.06
6236.00	1.41	233.2	6235.22	N	0.25	E	19.63	5.25	0.14
6329.00	1.44	228.8	6328.19	S	-1.21	E	17.83	6.14	0.12
6424.00	1.51	231.6	6423.16	S	-2.77	E	15.95	7.12	0.10
6518.00	1.49	229.8	6517.13	S	-4.33	E	14.05	8.08	0.06
6612.00	1.39	223.7	6611.10	S	-5.94	E	12.33	9.15	0.19
6706.00	1.38	220.6	6705.07	S	-7.62	E	10.80	10.34	0.08
6800.00	1.23	215.1	6799.05	S	-9.31	E	9.49	11.59	0.20
6895.00	1.31	212.8	6894.02	S	-11.06	E	8.31	12.94	0.10
6989.00	1.26	212.8	6988.00	S	-12.83	E	7.17	14.32	0.05
7084.00	1.19	204.6	7082.98	S	-14.61	E	6.20	15.76	0.19
7178.00	1.16	202.9	7176.96	S	-16.37	E	5.42	17.23	0.05
7272.00	1.25	206.5	7270.94	S	-18.16	E	4.59	18.72	0.12
7366.00	1.15	208.7	7364.92	S	-19.91	E	3.68	20.14	0.12
7460.00	0.46	272.3	7458.91	S	-20.72	E	2.85	20.69	1.08
7554.00	0.64	313.3	7552.90	S	-20.35	E	2.09	20.12	0.44
7648.00	0.67	326.7	7646.90	S	-19.53	E	1.41	19.14	0.16
7743.00	0.70	349.9	7741.89	S	-18.49	E	1.00	18.03	0.29
7837.00	0.60	3.3	7835.88	S	-17.43	E	0.93	17.00	0.19
7932.00	0.54	25.1	7930.88	S	-16.53	E	1.15	16.19	0.23
8026.00	0.65	37.4	8024.88	S	-15.71	E	1.66	15.55	0.18

Hook Loads

Up :	285	
Down :	240	
Rotating :	265	
Torque :	0	Amps
Torque :	10000.00	ft lbf

Comments

UL 20 STRIPES 38-47 602H
RIG MOBILIZATION BEGAN - 03/08/2018 @ 00:00 HRS
SPUD WELL @ 00:00 HRS ON 03/12/2018
(96 HR RIG MOVE, NO DIVERTER)
TOTAL HRS FROM SPUD: 216 HRS (9 DAYS)

NOTIFIED TRRC FOR SPUD @ 11:45 HRS 03/10/2018 (OPERATOR #2 AUDREY)
NOTIFIED TRRC FOR SURFACE CSG & CEMENT W/ TRRC JOB #2 AUDREY @ 1145 HRS 03/10/2018
NOTIFIED TRRC FOR INTERMEDIATE CSG & CMT, JOB # (OPERATOR #4 DIANA) @ 02:07 HRS 03/17/2018, DIANA OPERATOR #4.
NOTIFIED TRRC FOR 2ND INTERMEDIATE CMT, JOB # XXX @ XXX HRS, 03/XX/2018, XXX OPERATOR #X

LAST 5" DP INSP. (Red river) CAT- 4 W/ SHEAR WAVE – 03/08/2018.

421 jts kept w/Rig
33 jts sent to fishing tools
128 jts sent to NorAm yard
7 jts. down grade to Energen yd
Sent 16 jts & 1 lift sub to fishing tools

CLEAN/VISUAL INSPECT 742 JTS 4 1/2" DS-42, XX-XX-2018, XXX INSPECTION
742 JTS ACCEPTED BOTH ENDS AS PREMIUM
DAYS SINCE LAST LTA: (XXX DAYS):
CREW SHORTAGES (LAST 24HRS / TOTAL HRS): NO/NO
CREW DOUBLES (LAST 24 HRS / TOTAL HRS): NO/NO
DOWN TIME HRS (LAST 24HRS / TOTAL HRS): 0.0/ 3.5
NON PRODUCTIVE TIME (LAST 24HRS / TOTAL HRS): 0.0/18

OBM LOST TO WELL (LAST 24 HRS / TOTAL BBLS): 00 - BBLS / 00- BBL
OBM LOST: 0- BBLS TO FORMATION
OBM LOST: 0-BBLS TO CUTTINGS

13-3/8" 61# HCK-55 BTC SURFACE SET AT 437'
10-3/4"45.5# HCN-80 BTC INTERMEDIATE SET AT 4962'
7-5/8" 29.7# HCP-110 BTC SECOND INTERMEDIATE SET @ XXX' MD, XXX' TVD

INTERMEDIATE #2
9.875" ULTERRA 616M, W/6x16's TFA: 1.1781 // PHOENIX MTR 7.75", 7/8 4.0,1.5° BENT SLICK SLEEVE. 0.166 RPG - // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15 JTS 5" HWDP// TOTAL BHA = 1016.33' // DEPTH IN: 4967' DEPTH OUT: XXXX' // FTG DRILLED: XXXX' // TOTAL DRLG HRS: XXXX // TOTAL MTR HRS: XXXX AVG ROP: XX' FPH // REASON PULLED: XX INTM #1 // XXXX

INTERMEDIATE #1
12.25" ULTERRA CF616S, W/6x16's TFA: 1.1781 // PHOENIX MTR 7.75", 7/8 4.0,1.5° BENT STAB. 0.166 RPG - // 11.75" NORTRAK STAB // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 11.75 NORTRAK STAB // 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15 JTS 5" HWDP// TOTAL BHA = 1026.98' // DEPTH IN: 450 DEPTH OUT: 4967' // FTG DRILLED: 4517' // TOTAL DRLG HRS: 59.5 // TOTAL MTR HRS: 60.5 AVG ROP: 81' FPH // REASON PULLED: TD INTM #1 // 1-1-CT-N-I-NO-TD

SURFACE #1
17.5" ULTERRA U616S, W/9x16's TFA: 1.767 // TDI DIRECTIONAL MTR 9-5/8", 5/6 4.0,1.5° BENT SLICK 0.107 RPG - // IBS // MWD EXTREME // UBHO // 8" NMDC //17.25" NM IBS//8" NMDC//FILTER SUB// 8" SHOCK SUB // 12 - 8" DC // 1- XO SUBS //12- JTS 6.5" DC//XO// 15 JTS HWDP// TOTAL BHA = 1305.77 // DEPTH IN: 145 DEPTH OUT: 450' // FTG DRILLED: 305' // TOTAL DRLG HRS: 8 // TOTAL MTR HRS: 11 AVG ROP: 38.1' FPH // REASON PULLED: CSG POINT // 1/1 BIT GRADE: 1-1-NO-A-I-NO-TD

STARTING RIG FUEL - 3200 GALLONS TRANSFERRED IN .

DIESEL USAGE:
RIG FUEL (DAILY/TOTAL): 1,771/20,752
MUD DIESEL (DAILY/TOTAL 0 / 0
AUXILIARY EQUIPMENT (DAILY/TOTAL): 388/ 726 GALS
NO LEAKS OR SPILLS REPORTED OR OBSERVED

Solids Removal

Shakers

Shaker #	Bottom	Middle	Top

Other Solids Removal Equipment

Item	Hrs Run	Intake Density (lbs/gal)	Overflow Density (lbs/gal)	Underflow Density (lbs/gal)

Mud Log

Formation :
Background Gas :
Connection Gas :
Flare Length :
Trip Calc :

Well Incident

Report # :
Incident Date :
Report Date :
Problem Name :

Daily Drilling Report P1

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 14 Report Date : 3/21/2018

Financials

Daily Cost : $45,722 Cost to Date : $1,395,507

AFE # : PB18100003

AFE : $10,772,650 AFE Cost to Date : $1,395,507

Operations

Event Objective : Noram 27 D&C DB DEV WC A Event Sub Type : Drilling Prod

A.M. Ops : 00:00-06:00 DRILL 9.875" INTM. #2 F/9388' - T/9398' (10' - 20 FPH), TOOH FOR BIT AND MOTOR DUE TO LOW ROP

Ops Forecast : TOOH FOR LOW ROP, C/O BIT AND MOTOR, TIH, DRILL 9.875" INTM. #2 F/9398' - TOWARDS KOP @11,145

24hr. Summary : DRILL 9.875" INTM. #2 F/8135' - T/9388', (1253' - @ 54 FPH)

Planning Status :

Elevations

GL 2772.00 ft Reserve Pit Freeboard : 0.00 ft

Progress

Days from Spud : 9 Progress : 1253.00 ft MD at Report Time : 9388.00 ft

Rig on Location (days) : 14 Est. TD : 21672.00 ft TVD At Report Time : 0.00 ft

Event Dates

Spud Date	Spud Time	Suspended Drilling Date	Resume Drilling Date	Total Depth Date	Total Depth Time	Finished Drilling Date	Finished Drilling Time	Rig Released Date	Rig Released Time
3/12/2018	00:00								

Time Breakdown

Start Time : 00:00 Initial Depth : 0.00 ft Drilling Hours : 23.00 Total Drilling Hours : 112.00 Total Hours : 24.00 Time Code : DRILLING -

Drilling % : 95.83 Rotating % : 91.30 Sliding % : 8.70

Start Time	End Time	Hours	Phase	Activity		NPT	Bit #	Run #	Depth (ft)	Remarks
				Time Code	Description					
00:00	04:00	4.00	DRLIN2	02B	DRILLING - MTR/TURB - VERT	No	3	1	8340.00	DRLG 9.875" INTM. #2 F/8135' - T/8340' (205' - 51FPH) WOB 32, ROT 50, RPG 104, GPM 628, SPM 150, SPP 2100PSI., DIFF. 300/ 500PSI., TQ 8/ 10K, DRLG. THROUGH FLOW LINE W/ 100% RETURNS
04:00	04:30	0.50	DRLIN2	02B	DRILLING - MTR/TURB - VERT	No	3	1	8390.00	DRLG 9.875" INTM. #2 F/8340' - T/8390' (50' - 100FPH) WOB 32, ROT 50, RPG 104, GPM 628, SPM 150, SPP 2100PSI., DIFF. 300/ 500PSI., TQ 8/ 10K, DRLG. THROUGH FLOW LINE W/ 100% RETURNS
04:30	05:00	0.50	DRLIN2	35I	TROUBLE - EF - MWD	Yes	3		8390.00	DOWNLINK MWD TO IMPROVE PULSE STRENGTH
05:00	06:00	1.00	DRLIN2	02B	DRILLING - MTR/TURB - VERT	No	3	1	8438.00	DRLG 9.875" INTM. #2 F/8390' - T/8438' (48' - 48FPH) WOB 32/ 35, ROT 45/ 50, RPG 104, GPM 628, SPM 150, SPP 2100PSI., DIFF. 300/ 500PSI., TQ 8/ 10K, DRLG. THROUGH FLOW LINE W/ 100% RETURNS
06:00	10:00	4.00	DRLIN2	02B	DRILLING - MTR/TURB - VERT	No	3	1	8657.00	DRLG 9.875" INTM. #2 F/8438' - T/8657' (219' - 55FPH) WOB 35, ROT 50, RPG 111, GPM 670, SPM 160, SPP 2450PSI., DIFF. 300PSI., TQ 9K, DRLG. THROUGH FLOW LINE W/ 100% RETURNS
10:00	14:00	4.00	DRLIN2	02B	DRILLING - MTR/TURB - VERT	No	3	1	8907.00	DRLG 9.875" INTM. #2 F/8657' - T/8907' (250' - 62FPH) WOB 35, ROT 50, RPG 104, GPM 628, SPM 150, SPP 2150PSI., DIFF. 250PSI., TQ 9K, DRLG. THROUGH FLOW LINE W/ 100% RETURNS
14:00	16:00	2.00	DRLIN2	02B	DRILLING - MTR/TURB - VERT	No	3	1	9033.00	DRLG 9.875" INTM. #2 F/8907' - T/9033' (126' - 63FPH) WOB 35, ROT 45, RPG 111, GPM 670, SPM 160, SPP 2400PSI., DIFF. 300PSI., TQ 9K, DRLG. THROUGH FLOW LINE W/ 100% RETURNS
16:00	16:30	0.50	DRLIN2	10A	LUB RIG - DAILY SERVICE	No	3	1	9033.00	SERVICE RIG
16:30	19:00	2.50	DRLIN2	02B	DRILLING - MTR/TURB - VERT	No	3	1	9153.00	DRLG 9.875" INTM. #2 F/9033' - T/9153' (120' - 48' FPH) WOB 35, ROT 45, RPG 111, GPM 670, SPM 160, SPP 2400PSI., DIFF. 300PSI., TQ 9K, DRLG. THROUGH FLOW LINE W/ 100% RETURNS
19:00	20:00	1.00	DRLIN2	02M	DRILLING - DRILLING - SLIDING	No	3	1	9179.00	SLIDE DRLG 9.875" INTERM # 2 F/ 9153' T/ 9179' (26' @ 26'/ HR) WOB 50, RPG 111, GPM 670, SPM 160, SPP 2300, DIFF 225, W/ 225 MAG T/ F, DRLG THROUGH FLOW LINE W/ 100% RET
20:00	22:00	2.00	DRLIN2	02B	DRILLING - MTR/TURB - VERT	No	3	1	9323.00	DRLG 9.875" INTM. #2 F/9179' - T/9323' (144' - 72' FPH) WOB 35, ROT 45, RPG 111, GPM 670, SPM 160, SPP 2450PSI., DIFF. 350PSI., TQ 10K, DRLG. THROUGH FLOW LINE W/ 100% RETURNS
22:00	23:00	1.00	DRLIN2	02M	DRILLING - DRILLING - SLIDING	No	3	1	9343.00	SLIDE DRLG 9.875" INTERM # 2 F/ 9323' T/ 9343' (20' @ 20'/ HR) WOB 50, RPG 111, GPM 670, SPM 160, SPP 2350, DIFF 250, W/ 230 MAG T/ F, DRLG THROUGH FLOW LINE W/ 100% RET
23:00	00:00	1.00	DRLIN2	02B	DRILLING - MTR/TURB - VERT	No	3	1	9388.00	DRLG 9.875" INTM. #2 F/9343' - T/9388' (45' - 45' FPH) WOB 35, ROT 45, RPG 111, GPM 670, SPM 160, SPP 2350PSI., DIFF. 300PSI., TQ 10K, DRLG. THROUGH FLOW LINE W/ 100% RETURNS

Personnel Hours

Vendor	Vendor Type	Number Of People	Hours On Site	Total Hours
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00
NORAM DRILLING COMPANY	TOOLPUSHER	1	24.00	24.00
NORAM DRILLING COMPANY	RIG CREWS	12	24.00	288.00
AES DRILLING FLUIDS LLC	1- MAN CREW	1	24.00	24.00

PHOENIX DIRECTIONAL DRILLERS	4- MAN CREW	4	24.00	96.00
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00

Rig Information

KB Elevation:	2797.00 ft	KB To GL :	25.00 ft		
Rig(s) for today :	Noram 27	Rig Manager :	TOBY JOHNSON	Rig Phone :	432-219-0731
Date and Time of Rig Release :		Days From Rig Release :	0.00	Rig Fax :	

Safety

Last BOP Test(F) Date :	3/19/2018	Last BOP Pressure :	1500.000 psi	Last Lot Fit :	0.00
Last Csg Date :	3/19/2018	Last Csg Pressure :	250.000 psi	Last Spills Reported :	
Last BOP Drill Date :		Last Test MW :	0.00	Last Accidents :	
Last Fire Drill :		Last Test TVD :	0.00 ft	Last Safety Meeting :	3/21/2018 19:00
Last Evac Drill :		Last Test Pressure :	0.000 psi	Last Safety Meeting Topic :	DRILLING, HOUSE CLEANING

Contacts

Day Sup. :	JONAS HALDEMAN	Phone :	903-571-6771	Superintendent :	SANTOS MOROLES	Phone :	432-559-4901
Night Sup. :		Phone :		Geologist :		Phone :	
Alt. Phone :				Drill. Eng. :	RICHARD HILL	Phone :	432-818-1726

Attachments

Daily Attachment Folder(s)

Daily Drilling Report P2

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 14 Report Date : 3/21/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Mud Data

Mud Engineer : J. BENGE Mud Type : Brine Polymer Type :

Chk	Time	Depth (ft)	Density (lbs/gal)	FV (s/qt)	YP (lbs/100 ft²)	PV (cP)	WL (cc/30 min)	Cl (ppm)	Electro Static Stability	Oil Ratio	H2O Ratio	HTHP Water Loss(cc/30 min)
1	22:00	9323.0	9.20000	28.00	1	1.00	100.0	89000	0.0	0	95	0.0

Bit Data

Bit #	Run #	Size (in)	Mfg.	Model	IADC Code	Daily Drilled (ft)	Daily Hours	Daily ROP (ft/hr)	Cum Drilled (ft)	Cum Hrs.	Avg. ROP (ft/hr)	Depth In (ft)	Depth Out (ft)	Max WOB (M Lbs)	PSI Drop (psi)	Nozzle Velocity (ft/s)	HHP (HP)
3	1	9.875	ULTERRA	U616M		1253.0	23.00	54.48	4421.00	50.50	87.54	8135.00	9388.00	30.000	213.355	161.03	83.41

BHA Data

For Bit # : 3 Mud Motor : Total Made : 1253 ft

Total BHA Hours : 114.5 Total Hours : 23.00

BHA # : 03 DC OD : 6.500 in DP OD : 5.000 in BHA Length : 1016.33 ft BHA Weight 0.00 M Lbs

Item	Jts	Length (ft)	OD (in)	ID (in)	Coupling OD (in)	Weight (lbs/ft)	Thread Type	Pin/Box
BITS	1	1.00	9.880	0.000	0.000	0.000	6- 5/8REG	Pin
MUD MOTOR	1	27.43	7.750	0.000	8.650	0.000	6- 5/8REG	Box
SHOCK SUB	1	14.48	8.000	2.810	7.810	0.000	6- 5/8REG	Box
NON- MAG COLLAR	1	11.14	8.000	3.250	8.060	0.000	6- 5/8REG	Box
MWD TOOLS	1	1.54	8.000	3.250	8.000	0.000	6- 5/8REG	Box
SUBS	1	3.75	8.060	0.000	8.250	0.000	6- 5/8REG	Box
SUBS	1	8.53	8.060	0.000	8.060	0.000	6- 5/8REG	Box
GAP SUB	1	3.56	8.060	0.000	8.060	0.000	6- 5/8REG	Box
NON- MAG COLLAR	1	29.84	8.000	3.310	8.000	0.000	6- 5/8REG	Box
CROSSOVER SUB	1	3.33	6.500	2.880	7.940	0.000	4- 1/2XH	Box
COLLARS	15	453.97	6.500	2.750	0.000	0.000	4- 1/2XH	Box
CROSSOVER SUB	1	3.02	6.500	2.875	6.563	0.000	4- 1/2IF	Box
HWDP	15	454.74	5.000	3.000	0.000	0.000	4- 1/2IF	Box

Drilling Parameters

Bit #	Run #	Depth (ft)	WOB (M Lbs)	RPM		GPM	Torque		String Weight			Pressure		
				Motor	Rotary		On Bom (ft lbf)	Off Bom (ft lbf)	Pick Up (lbs)	Stack Off (lbs)	Rotate (lbs)	On Bom (psi)	Off Bom (psi)	Diff Press. (psi)
3	1	9388.00	30.000	111	45	670	9.00	2.00	310	260	285	2350.0	2050.0	300.0

Pump Data

Bit #	Pump 1					Pump 2					Pump Pressure (psi)	AV DC (ft/min)	AV DP (ft/min)
	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)			
3	CE FB1600	12.000	6.000	80	334.923	CE FB1600	12.000	6.000	80	334.923	2350.00	297	226

Reduced Speed Pumps

Depth(ft)	Pump 1			Pump 2		
	Model	Pressure (psi)	SPM	Model	Pressure (psi)	SPM
0.00	CE FB1600	0.0	0	CE FB1600	0.0	0

Daily Drilling Report P3

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 14 Report Date : 3/21/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Drill Bottom Hole Targets

Bottom Hole Location	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Survey Data

Depth (ft)	Deviation	Azimuth	TVD (ft)	N/S	N/S (ft)	E/W	E/W (ft)	Vertical Section (ft)	Dog Leg
8215.00	0.82	42.6	8213.86	S	-14.00	E	3.17	14.32	0.18
8310.00	0.75	48.3	8308.85	S	-13.08	E	4.10	13.71	0.11
8405.00	0.81	54.9	8403.84	S	-12.28	E	5.11	13.22	0.11
8499.00	0.91	48.9	8497.83	S	-11.41	E	6.22	12.69	0.14
8593.00	1.02	46.6	8591.82	S	-10.34	E	7.39	12.00	0.12
8687.00	1.32	51.5	8685.80	S	-9.09	E	8.84	11.20	0.33
8781.00	1.46	53.3	8779.77	S	-7.70	E	10.65	10.37	0.15
8876.00	1.88	53.5	8874.73	S	-6.05	E	12.87	9.41	0.44
8970.00	1.83	46.8	8968.68	S	-4.11	E	15.20	8.19	0.23
9064.00	2.06	46.8	9062.63	S	-1.92	E	17.53	6.75	0.24
9158.00	1.71	43.9	9156.58	N	0.24	E	19.73	5.28	0.38
9252.00	1.14	55.7	9250.55	N	1.78	E	21.48	4.29	0.67

Hook Loads

Up : 310

Down : 260

Rotating : 285

Torque : 0 Amps

Torque : 10000.00 ft lbf

Comments

UL 20 STRIPES 38-47 602H
RIG MOBILIZATION BEGAN - 03/08/2018 @ 00:00 HRS
SPUD WELL @ 00:00 HRS ON 03/12/2018
(96 HR RIG MOVE, NO DIVERTER)
TOTAL HRS FROM SPUD: 240 HRS (10 DAYS)

NOTIFIED TRRC FOR SPUD @ 11:45 HRS 03/10/2018 (OPERATOR #2 AUDREY)
NOTIFIED TRRC FOR SURFACE CSG & CEMENT W/ TRRC JOB #2 AUDREY @ 1145 HRS 03/10/2018
NOTIFIED TRRC FOR INTERMEDIATE CSG & CMT, JOB # (OPERATOR #4 DIANA) @ 02:07 HRS 03/17/2018, DIANA OPERATOR #4.
NOTIFIED TRRC FOR 2ND INTERMEDIATE CMT, JOB # XXX @ XXX HRS, 03/XX/2018, XXX OPERATOR #X

LAST 5" DP INSP. (Red river) CAT- 4 W/ SHEAR WAVE – 03/08/2018.
421 jts kept w/Rig
33 jts sent to fishing tools
128 jts sent to NorAm yard
7 jts. down grade to Energen yd
Sent 16 jts & 1 lift sub to fishing tools

CLEAN/VISUAL INSPECT 742 JTS 4 1/2" DS-42, XX-XX-2018, XXX INSPECTION
742 JTS ACCEPTED BOTH ENDS AS PREMIUM
DAYS SINCE LAST LTA: (XXX DAYS):
CREW SHORTAGES (LAST 24HRS / TOTAL HRS): NO/NO
CREW DOUBLES (LAST 24 HRS / TOTAL HRS): NO/NO
DOWN TIME HRS (LAST 24HRS / TOTAL HRS): 0.0/ 3.5
NON PRODUCTIVE TIME (LAST 24HRS / TOTAL HRS): 0.5/18.5

OBM LOST TO WELL (LAST 24 HRS / TOTAL BBLS): 00 - BBLS / 00- BBL
OBM LOST: 0- BBLS TO FORMATION
OBM LOST: 0-BBLS TO CUTTINGS

13-3/8" 61# HCK-55 BTC SURFACE SET AT 437'

10-3/4"45.5# HCN-80 BTC INTERMEDIATE SET AT 4962'
7-5/8" 29.7# HCP-110 BTC SECOND INTERMEDIATE SET @ XXX' MD, XXX' TVD

INTERMEDIATE #2
9.875" ULTERRA 616M, W/6x16's TFA: 1.1781 // PHOENIX MTR 7.75", 7/8 4.0,1.5° BENT SLICK SLEEVE. 0.166 RPG - // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15 JTS 5" HWDP// TOTAL BHA = 1016.33' // DEPTH IN: 4967' DEPTH OUT: XXXX' // FTG DRILLED: XXXX' // TOTAL DRLG HRS: XXXX // TOTAL MTR HRS: XXXX AVG ROP: XX' FPH // REASON PULLED: XX INTM #1 // XXXX

INTERMEDIATE #1
12.25" ULTERRA CF616S, W/6x16's TFA: 1.1781 // PHOENIX MTR 7.75", 7/8 4.0,1.5° BENT STAB. 0.166 RPG - // 11.75" NORTRAK STAB // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 11.75 NORTRAK STAB // 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15 JTS 5" HWDP// TOTAL BHA = 1026.98' // DEPTH IN: 450 DEPTH OUT: 4967' // FTG DRILLED: 4517' // TOTAL DRLG HRS: 59.5 // TOTAL MTR HRS: 60.5 AVG ROP: 81' FPH // REASON PULLED: TD INTM #1 // 1-1-CT-N-I-NO-TD

SURFACE #1
17.5" ULTERRA U616S, W/9x16's TFA: 1.767 // TDI DIRECTIONAL MTR 9-5/8", 5/6 4.0,1.5° BENT SLICK 0.107 RPG - // IBS // MWD EXTREME // UBHO // 8" NMDC //17.25" NM IBS//8" NMDC//FILTER SUB// 8" SHOCK SUB // 12 - 8" DC // 1- XO SUBS //12- JTS 6.5" DC//XO// 15 JTS HWDP// TOTAL BHA = 1305.77 // DEPTH IN: 145 DEPTH OUT: 450' // FTG DRILLED: 305' // TOTAL DRLG HRS: 8 // TOTAL MTR HRS: 11 AVG ROP: 38.1' FPH // REASON PULLED: CSG POINT // 1/1 BIT GRADE: 1-1-NO-A-I-NO-TD

STARTING RIG FUEL - 3200 GALLONS TRANSFERRED IN .

DIESEL USAGE:
RIG FUEL (DAILY/TOTAL): 1,556/22,308
MUD DIESEL (DAILY/TOTAL 0 / 0
AUXILIARY EQUIPMENT (DAILY/TOTAL): 0/ 726 GALS
NO LEAKS OR SPILLS REPORTED OR OBSERVED

Solids Removal

Shakers

Shaker #	Bottom	Middle	Top

Other Solids Removal Equipment

Item	Hrs Run	Intake Density (lbs/gal)	Overflow Density (lbs/gal)	Underflow Density (lbs/gal)

Mud Log

Formation :
Background Gas :
Connection Gas :
Flare Length :
Trip Calc :

Well Incident

Report # :
Incident Date :
Report Date :
Problem Name :

Daily Drilling Report P1

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 15 Report Date : 3/22/2018

Financials

Daily Cost : $68,518 Cost to Date : $1,470,953

AFE # : PB18100003

AFE : $10,772,650 AFE Cost to Date : $1,470,953

Operations

Event Objective : Noram 27 D&C DB DEV WC A Event Sub Type : Drilling Prod

A.M. Ops : 00:00-06:00 DRILL 9.875" INTM. #2 F/9587' - T/9800' (213' - 36' FPH)

Ops Forecast : DRILL 9.875" INTM. #2 F/9800' - TOWARDS KOP @11,145

24hr. Summary : DRILL 9.875" INTM. #2 F/9388' - T/9389', (10' - @ 20' FPH), TOOH F/9398 - T/SURF, C/O BIT AND MOTOR, TIH WITH BHA #4, DRILL 9.875" INTM. #2 F/9398' - T/9587', (189' - @ 42' FPH),

Planning Status :

Elevations

GL 2772.00 ft Reserve Pit Freeboard : 0.00 ft

Progress

Days from Spud : 10 Progress : 199.00 ft MD at Report Time : 9587.00 ft

Rig on Location (days) : 15 Est. TD : 21672.00 ft TVD At Report Time : 0.00 ft

Event Dates

Spud Date	Spud Time	Suspended Drilling Date	Resume Drilling Date	Total Depth Date	Total Depth Time	Finished Drilling Date	Finished Drilling Time	Rig Released Date	Rig Released Time
3/12/2018	00:00								

Time Breakdown

Start Time : 00:00 Initial Depth : 0.00 ft Drilling Hours : 6.50 Total Drilling Hours : 118.50 Total Hours : 24.00 Time Code : DRILLING -

Drilling % : 27.08 Rotating % : 100.00 Sliding % : 0.00

Start Time	End Time	Hours	Phase	Activity		NPT	Bit #	Run #	Depth (ft)	Remarks
				Time Code	Description					
00:00	00:30	0.50	DRLIN2	02B	DRILLING - MTR/TURB - VERT	No	3	1	9398.00	DRLG 9.875" INTM. #2 F/9388' - T/9398' (10' - 20FPH) WOB 35, ROT 45, RPG 111, GPM 670, SPM 160, SPP 2350PSI., DIFF. 300PSI., TQ 10K, DRLG. THROUGH FLOW LINE W/ 100% RETURNS
00:30	02:00	1.50	DRLIN2	07C	C & C MUD - PRIOR TO TRIP	No	3		9398.00	CTCH - PUMP 50BBLS. 11.5PPG. KM, 148BBLS. ACT., 50BBLS. 11.5PPG. KM, 15BBLS. ACT.
02:00	06:00	4.00	DRLIN2	08A	TRIPPING - BIT/ BHA	No	3		9398.00	TOH DUE TO LOW R.O.P. F/9398' - T/5000', NO TIGHT SPOTS, MONITORED FILL ON TRIP TANK
06:00	07:00	1.00	DRLIN2	07I	C & C MUD - FLOW CHECK	No	3		9398.00	FLOW CHECK WELL - WELL FLOWING, PUMP 40BBLS. 11.5PPG. KM - PULLED ROT. HEAD RUBBER AND MONITORED WELL - WELL STATIC
07:00	10:30	3.50	DRLIN2	08A	TRIPPING - BIT/ BHA	No	3		9398.00	CONT. TOH F/5000' - T/SURF., NO TIGHT SPOTS, MONITORED FILL ON TRIP TANK - L/D BIT AND MOTOR
10:30	12:00	1.50	DRLIN2	08A	TRIPPING - BIT/ BHA	No	4	1	9398.00	P/U, M/U, SCRIBE, AND TEST BHA # 4 CONSISTING OF: 9.875" ULTERRA CF716 JETTED WITH 7 x14' S = 1.05 TFA // 7.75" PHOENIX MTR. 1.5° ADJ., (7/8LOBE, 4.0 STG., .166 REV/GAL) // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15JTS. 5" HWDP // TOTAL BHA = 1016.04' *** TIH SLOWER THAN NORMAL DUE TO ST-80 TQ. GAUGE NO WORKING PROPERLY, HAD TO USE SPINNER HAWK AND TONGS TO M/U DRILL STRING
12:00	13:30	1.50	DRLIN2	08A	TRIPPING - BIT/ BHA	No	4	1	9398.00	TIH F/SURF' - T/1115', MONITOR DISP. ON TRIP TANK, NO TIGHT SPOTS *** *** TIH SLOWER THAN NORMAL DUE TO ST-80 TQ. GAUGE NO WORKING PROPERLY, HAD TO USE SPINNER HAWK AND TONGS TO M/U DRILL STRING
13:30	14:00	0.50	DRLIN2	08A	TRIPPING - BIT/ BHA	No	4	1	9398.00	TEST MWD, GOOD TEST
14:00	18:00	4.00	DRLIN2	08A	TRIPPING - BIT/ BHA	No	4	1	9398.00	TIH F/1115' - T/9398', MONITOR DISP. ON TRIP TANK, NO TIGHT SPOTS
18:00	23:30	5.50	DRLIN2	02B	DRILLING - MTR/TURB - VERT	No	4	1	9562.00	DRLG 9.875" INTM. #2 F/9398' - T/9562' (164' - 41' FPH) WOB 35, ROT 45, RPG 111, GPM 670, SPM 160, SPP 2500PSI., DIFF. 300PSI., TQ 10K, MD. WT. 9.2PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
23:30	00:00	0.50	DRLIN2	02B	DRILLING - MTR/TURB - VERT	No	4	1	9587.00	DRLG 9.875" INTM. #2 F/9562' - T/9587' (25' - 50' FPH) WOB 35, ROT 45, RPG 111, GPM 670, SPM 160, SPP 2500PSI., DIFF. 300PSI., TQ 10K, MD. WT. 9.3PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS

Personnel Hours

Vendor	Vendor Type	Number Of People	Hours On Site	Total Hours
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00
NORAM DRILLING COMPANY	TOOLPUSHER	1	24.00	24.00
NORAM DRILLING COMPANY	RIG CREWS	12	24.00	288.00
AES DRILLING FLUIDS LLC	1- MAN CREW	1	24.00	24.00

PHOENIX DIRECTIONAL DRILLERS	4- MAN CREW	4	24.00	96.00
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00

Rig Information

KB Elevation:	2797.00 ft	KB To GL :	25.00 ft		
Rig(s) for today :	Noram 27	Rig Manager :	TOBY JOHNSON	Rig Phone :	432-219-0731
Date and Time of Rig Release :		Days From Rig Release :	0.00	Rig Fax :	

Safety

Last BOP Test(F) Date :	3/19/2018	Last BOP Pressure :	1500.000 psi	Last Lot Fit :	0.00
Last Csg Date :	3/19/2018	Last Csg Pressure :	250.000 psi	Last Spills Reported :	
Last BOP Drill Date :		Last Test MW :	0.00	Last Accidents :	
Last Fire Drill :		Last Test TVD :	0.00 ft	Last Safety Meeting :	3/22/2018 19:00
Last Evac Drill :		Last Test Pressure :	0.000 psi	Last Safety Meeting Topic :	MIXING CHEMICALS, WELL CONTRO

Contacts

Day Sup. :	JONAS HALDEMAN	Phone :	903-571-6771	Superintendent :	SANTOS MOROLES	Phone :	432-559-4901
Night Sup. :		Phone :		Geologist :		Phone :	
Alt. Phone :				Drill. Eng. :	RICHARD HILL	Phone :	432-818-1726

Attachments

Daily Attachment Folder(s)

Daily Drilling Report P2

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 15 Report Date : 3/22/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Mud Data

Mud Engineer : J. BENGE Mud Type : Brine Polymer Type :

Chk	Time	Depth (ft)	Density (lbs/gal)	FV (s/qt)	YP (lbs/100 ft²)	PV (cP)	WL (cc/30 min)	Cl (ppm)	Electro Static Stability	Oil Ratio	H2O Ratio	HTHP Water Loss(cc/30 min)
1	22:00	9479.0	9.40000	27.00	1	1.00	100.0	0	0.0	0	93	0.0

Bit Data

Bit #	Run #	Size (in)	Mfg.	Model	IADC Code	Daily Drilled (ft)	Daily Hours	Daily ROP (ft/hr)	Cum Drilled (ft)	Cum Hrs.	Avg. ROP (ft/hr)	Depth In (ft)	Depth Out (ft)	Max WOB (M Lbs)	PSI Drop (psi)	Nozzle Velocity (ft/s)	HHP (HP)
4	1	9.875	ULTERRA	CF716		189.00	6.00	31.50	189.00	6.00	31.50	9398.00	9587.00	35.000	350.61	204.22	137.0

BHA Data

For Bit # : 4 Mud Motor : Total Made : 189 ft

Total BHA Hours : 123.5 Total Hours : 6.00

BHA # : 04 DC OD : 6.500 in DP OD : 5.000 in BHA Length : 74.70 ft BHA Weight 0.00 M Lbs

Item	Jts	Length (ft)	OD (in)	ID (in)	Coupling OD (in)	Weight (lbs/ft)	Thread Type	Pin/Box
MUD MOTOR	1	27.14	7.750	0.000	8.650	0.000	6- 5/8REG	Box
NON- MAG COLLAR	1	11.14	8.000	3.250	8.060	0.000	6- 5/8REG	Box
GAP SUB	1	3.56	8.060	0.000	8.060	0.000	6- 5/8REG	Box
NON- MAG COLLAR	1	29.84	8.000	3.310	8.000	0.000	6- 5/8REG	Box
CROSSOVER SUB	1	3.02	6.500	2.875	6.563	0.000	4- 1/2IF	Box

Drilling Parameters

Bit #	Run #	Depth (ft)	WOB (M Lbs)	RPM		GPM	Torque		String Weight			Pressure		
				Motor	Rotary		On Bom (ft lbf)	Off Bom (ft lbf)	Pick Up (lbs)	Stack Off (lbs)	Rotate (lbs)	On Bom (psi)	Off Bom (psi)	Diff Press. (psi)
4	1	9587.00	35.000	111	45	670	10000.00	2000.00	310	265	290	2500.0	2200.0	300.0

Pump Data

Bit #	Pump 1					Pump 2					Pump Pressure (psi)	AV DC (ft/min)	AV DP (ft/min)
	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)			
4	CE FB1600	12.000	6.000	80	334.923	CE FB1600	12.000	6.000	80	334.923	2450.00	297	226

Reduced Speed Pumps

Depth(ft)	Pump 1			Pump 2		
	Model	Pressure (psi)	SPM	Model	Pressure (psi)	SPM
0.00	CE FB1600	0.0	0	CE FB1600	0.0	0

Daily Drilling Report P3

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 15 Report Date : 3/22/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Drill Bottom Hole Targets

Bottom Hole Location	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Survey Data

Depth (ft)	Deviation	Azimuth	TVD (ft)	N/S	N/S (ft)	E/W	E/W (ft)	Vertical Section (ft)	Dog Leg
9441.00	0.83	75.6	9439.52	N	3.04	E	24.18	3.84	0.14

Hook Loads

Up :	310	
Down :	265	
Rotating :	290	
Torque :	0	Amps
Torque :	10000.00	ft lbf

Comments

UL 20 STRIPES 38-47 602H

RIG MOBILIZATION BEGAN - 03/08/2018 @ 00:00 HRS
SPUD WELL @ 00:00 HRS ON 03/12/2018
(96 HR RIG MOVE, NO DIVERTER)

TOTAL HRS FROM SPUD: 264 HRS (11 DAYS)

NOTIFIED TRRC FOR SPUD @ 11:45 HRS 03/10/2018 (OPERATOR #2 AUDREY)
NOTIFIED TRRC FOR SURFACE CSG & CEMENT W/ TRRC JOB #2 AUDREY @ 1145 HRS 03/10/2018
NOTIFIED TRRC FOR INTERMEDIATE CSG & CMT, JOB # (OPERATOR #4 DIANA) @ 02:07 HRS 03/17/2018, DIANA OPERATOR #4.
NOTIFIED TRRC FOR 2ND INTERMEDIATE CMT, JOB # XXX @ XXX HRS, 03/XX/2018, XXX OPERATOR #X

LAST 5" DP INSP. (Red river) CAT- 4 W/ SHEAR WAVE – 03/08/2018.
421 jts kept w/Rig
33 jts sent to fishing tools
128 jts sent to NorAm yard
7 jts. down grade to Energen yd
Sent 16 jts & 1 lift sub to fishing tools

CLEAN/VISUAL INSPECT 742 JTS 4 1/2" DS-42, XX-XX-2018, XXX INSPECTION
742 JTS ACCEPTED BOTH ENDS AS PREMIUM

DAYS SINCE LAST LTA: (XXX DAYS):
CREW SHORTAGES (LAST 24HRS / TOTAL HRS): NO/NO
CREW DOUBLES (LAST 24 HRS / TOTAL HRS): NO/NO

DOWN TIME HRS (LAST 24HRS / TOTAL HRS): 0.0/ 3.5
NON PRODUCTIVE TIME (LAST 24HRS / TOTAL HRS): 0.0/18.5

OBM LOST TO WELL (LAST 24 HRS / TOTAL BBLS): 00 - BBLS / 00- BBL
OBM LOST: 0- BBLS TO FORMATION

OBM LOST: 0-BBLS TO CUTTINGS

13-3/8" 61# HCK-55 BTC SURFACE SET AT 437'
10-3/4"45.5# HCN-80 BTC INTERMEDIATE SET AT 4962'
7-5/8" 29.7# HCP-110 BTC SECOND INTERMEDIATE SET @ XXX' MD, XXX' TVD

INTERMEDIATE #2
BHA #4: 9.875" ULTERRA CF716 JETTED WITH 7 x14'S = 1.05 TFA // 7.75" PHOENIX MTR. 1.5° ADJ., (7/8LOBE, 4.0 STG., .166 REV/GAL) // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15JTS. 5" HWDP // TOTAL BHA = 1016.04' // DEPTH IN: 9398' // DEPTH OUT: XXXX' // FTG DRILLED: XXXX' // TOTAL DRLG HRS: XXXX // TOTAL MTR. HRS: XXXX // ROP: XX FPH // REASON PULLED: ..... // BIT GRADE = ...

INTERMEDIATE #2
BHA #3: 9.875" ULTERRA 616M, W/6x16's TFA: 1.1781 // PHOENIX MTR 7.75", 7/8 4.0,1.5° BENT SLICK SLEEVE. 0.166 RPG - // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15 JTS 5" HWDP// TOTAL BHA = 1016.33' // DEPTH IN: 4967' // DEPTH OUT: 9398' // FTG DRILLED: 4431' // TOTAL DRLG HRS: 51 // TOTAL MTR HRS: 52.5 // ROP: 86FPH // REASON PULLED: LOW R.O.P.// BIT GRADE = 4-2-BT-N--I-RO-PR

INTERMEDIATE #1
BHA #2: 12.25" ULTERRA CF616S, W/6x16's TFA: 1.1781 // PHOENIX MTR 7.75", 7/8 4.0,1.5° BENT STAB. 0.166 RPG - // 11.75" NORTRAK STAB // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 11.75 NORTRAK STAB // 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15 JTS 5" HWDP // TOTAL BHA = 1026.98' // DEPTH IN: 450' // DEPTH OUT: 4967' // FTG. DRILLED: 4517' // TOTAL DRLG. HRS.: 59.5 // TOTAL MTR. HRS: 60.5 // AVG. ROP: 81' FPH // REASON PULLED: TD / CSG. POINT // 1-1-CT-N-I-NO-TD

SURFACE #1
BHA #1: 17.5" ULTERRA U616S, W/9x16's TFA: 1.767 // TDI DIRECTIONAL MTR 9-5/8", 5/6 4.0,1.5° BENT SLICK 0.107 RPG - // IBS // MWD EXTREME // UBHO // 8" NMDC //17.25" NM IBS//8" NMDC//FILTER SUB// 8" SHOCK SUB // 12 - 8" DC // 1- XO SUBS //12- JTS 6.5" DC//XO// 15 JTS HWDP// TOTAL BHA = 1305.77 // DEPTH IN: 145' // DEPTH OUT: 450' // FTG. DRILLED: 305' // TOTAL DRLG HRS: 8 // TOTAL MTR. HRS: 11 // ROP: 38.1' FPH // REASON PULLED: CSG POINT // 1/1 BIT GRADE: 1-1-NO-A-I-NO-TD

STARTING RIG FUEL - 3200 GALLONS TRANSFERRED IN .

DIESEL USAGE:
RIG FUEL (DAILY/TOTAL): 1268 / 23,576
MUD DIESEL (DAILY/TOTAL 0 / 0
AUXILIARY EQUIPMENT (DAILY/TOTAL): 83 / 809 GALS
CERTARUS GAS (DAILY/TOTAL) 1008.60 / 2932.23 GALS

NO LEAKS OR SPILLS REPORTED OR OBSERVED

Solids Removal

Shakers

Shaker #	Bottom	Middle	Top

Other Solids Removal Equipment

Item	Hrs Run	Intake Density (lbs/gal)	Overflow Density (lbs/gal)	Underflow Density (lbs/gal)

Mud Log

Formation :
Background Gas :
Trip Calc :
Connection Gas :
Flare Length :

Well Incident

Report # :
Incident Date :
Report Date :
Problem Name :

Daily Drilling Report P1

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 16 Report Date : 3/23/2018

Financials

Daily Cost : $48,514 Cost to Date : $1,519,467

AFE # : PB18100003

AFE : $10,772,650 AFE Cost to Date : $1,519,467

Operations

Event Objective : Noram 27 D&C DB DEV WC A Event Sub Type : Drilling Prod

A.M. Ops : 00:00-06:00 DRILL 9.875" INTM. #2 F/10,311' - T/10,480', SLIDE (22' - 15' FPH), ROT. (147' - 33' FPH)

Ops Forecast : DRILL 9.875" INTM. #2 F/10,480' - TOWARDS KOP @11,145', TOH FOR CURVE ASSY.

24hr. Summary : DRLG 9.875" INTM. #2 F/9587' - T/10,311' (724' - 31.5FPH), SERVICE RIG

Planning Status :

Elevations

GL 2772.00 ft Reserve Pit Freeboard : 0.00 ft

Progress

Days from Spud : 11 Progress : 724.00 ft MD at Report Time : 10311.00 ft

Rig on Location (days) : 16 Est. TD : 21672.00 ft TVD At Report Time : 0.00 ft

Event Dates

Spud Date	Spud Time	Suspended Drilling Date	Resume Drilling Date	Total Depth Date	Total Depth Time	Finished Drilling Date	Finished Drilling Time	Rig Released Date	Rig Released Time
3/12/2018	00:00								

Time Breakdown

Start Time : 00:00 Initial Depth : 0.00 ft Drilling Hours : 23.00 Total Drilling Hours : 141.50 Total Hours : 24.00 Time Code : DRILLING -

Drilling % : 95.83 Rotating % : 56.52 Sliding % : 43.48

Start Time	End Time	Hours	Phase	Activity Time Code	Activity Description	NPT	Bit #	Run #	Depth (ft)	Remarks
00:00	00:30	0.50	DRLIN2	02B	DRILLING - MTR/TURB - VERT	No	4	1	9603.00	DRLG 9. 875" INTM. # 2 F/ 9587' - T/ 9603' (16' - 32FPH) WOB 35, ROT 45, MRPM 111, GPM 670, SPM 160, SPP 2500PSI., DIFF. 300PSI., TQ 10K, MD. WT. 9. 3PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
00:30	02:00	1.50	DRLIN2	02M	DRILLING - DRILLING - SLIDING	No	4	1	9633.00	SLIDE DRLG 9. 875" INTERM # 2 F/ 9603' - T/ 9633' (30' - 20FPH) MTF- 225, WOB 25, MRPM 111, GPM 670, SPM 160, SPP 2300PSI., DIFF 225, MD. CUT 9. 4PPG., DRLG THROUGH FLOW LINE W/ 100% RETURNS
02:00	03:30	1.50	DRLIN2	02B	DRILLING - MTR/TURB - VERT	No	4	1	9699.00	DRLG 9. 875" INTM. # 2 F/ 9633' - T/ 9699' (66' - 44FPH) WOB 35, ROT 45, MRPM 111, GPM 670, SPM 160, SPP 2500PSI., DIFF. 150/ 350PSI., TQ 10K, MD. WT. 9. 4PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
03:30	04:30	1.00	DRLIN2	02M	DRILLING - DRILLING - SLIDING	No	4	1	9723.00	SLIDE DRLG 9. 875" INTERM # 2 F/ 9699' - T/ 9723' (24' - 24FPH) MTF- 270, WOB 25/ 30, MRPM 111, GPM 670, SPM 160, SPP 2300PSI., DIFF 200PSI., MD. CUT 9. 4PPG., DRLG THROUGH FLOW LINE W/ 100% RETURNS
04:30	06:00	1.50	DRLIN2	02B	DRILLING - MTR/TURB - VERT	No	4	1	9819.00	DRLG 9. 875" INTM. # 2 F/ 9723' - T/ 9819' (96' - 64FPH) WOB 35, ROT 45/ 60, MRPM 111, GPM 670, SPM 160, SPP 2500PSI., DIFF. 150/ 350PSI., TQ 10K, MD. WT. 9. 4PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
06:00	08:00	2.00	DRLIN2	02B	DRILLING - MTR/TURB - VERT	No	4	1	9895.00	DRLG 9. 875" INTM. # 2 F/ 9819' - T/ 9895' (76' - 38FPH) WOB 35, ROT 45/ 60, MRPM 111, GPM 670, SPM 160, SPP 2500PSI., DIFF. 150/ 350PSI., TQ 10K, MD. WT. 9. 4PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
08:00	09:00	1.00	DRLIN2	02M	DRILLING - DRILLING - SLIDING	No	4	1	9920.00	SLIDE DRLG 9. 875" INTERM # 2 F/ 9895' - T/ 9920' (25' - 25FPH) MTF- 270, WOB 25/ 30, MRPM 111, GPM 670, SPM 160, SPP 2300PSI., DIFF 200PSI., MD. CUT 9. 4PPG., DRLG THROUGH FLOW LINE W/ 100% RETURNS
09:00	13:00	4.00	DRLIN2	02D	DRILLING - MTR/TURB - DIR/HORZ	No	4	1	10081.00	DRLG 9. 875" INTM. # 2 F/ 9920' - T/ 10, 081' (161' - 40FPH) WOB 35, ROT 45/ 60, MRPM 111, GPM 670, SPM 160, SPP 2500PSI., DIFF. 150/ 350PSI., TQ 10K, MD. WT. 9. 4PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
13:00	15:00	2.00	DRLIN2	02M	DRILLING - DRILLING - SLIDING	No	4	1	10112.00	SLIDE DRLG 9. 875" INTERM # 2 F/ 10, 081' - T/ 10, 112' (31' - 15FPH) MTF - 329, WOB 25/ 30, MRPM 111, GPM 670, SPM 160, SPP 2300PSI., DIFF 200PSI., MD. CUT 9. 4PPG., DRLG THROUGH FLOW LINE W/ 100% RETURNS
15:00	16:00	1.00	DRLIN2	02B	DRILLING - MTR/TURB - VERT	No	4	1	10164.00	DRLG 9. 875" INTM. # 2 F/ 10, 112' - T/ 10, 164' (52' - 52FPH) WOB 35, ROT 60, MRPM 111, GPM 670, SPM 160, SPP 2500PSI., DIFF. 250 PSI., TQ 12K, MD. WT. 9. 4PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
16:00	16:30	0.50	DRLIN2	10A	LUB RIG - DAILY SERVICE	No	4	1	10164.00	SERVICE RIG
16:30	17:00	0.50	DRLIN2	02B	DRILLING - MTR/TURB - VERT	No	4	1	10174.00	DRLG 9. 875" INTM. # 2 F/ 10, 164' - T/ 10, 174' (10' - 20FPH) WOB 35, ROT 60, MRPM 111, GPM 670, SPM 160, SPP 2500PSI., DIFF. 250 PSI., TQ 12K, MD. WT. 9. 4PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
17:00	20:00	3.00	DRLIN2	02M	DRILLING - DRILLING - SLIDING	No	4	1	10216.00	SLIDE DRLG 9. 875" INTERM # 2 F/ 10, 174' - T/ 10, 216' (42' - 14FPH) MTF - 329, WOB 25, MRPM 111, GPM 670, SPM 160, SPP 2600PSI., DIFF 300PSI., MD. CUT 9. 4PPG., DRLG THROUGH FLOW LINE W/ 100% RETURNS

20:00	22:00	2.00	DRLIN2	02B	DRILLING - MTR/TURB - VERT	No	4	1	10291.00	DRLG 9. 875" INTM. # 2 F/ 10, 216' - T/ 10, 291' (75' - 38FPH) WOB 38, ROT 55, MRPM 111, GPM 670, SPM 160, SPP 2650PSI., DIFF. 450 PSI., TQ 12K, MD. WT. 9. 4PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
22:00	22:30	0.50	DRLIN2	13E	DEV SURV - OTHER	Yes	4	1	10291.00	DOWNLINK TO VELOCITY MWD, TO INCREASE THE SPEED OF TOOL FACE UPDATES
22:30	00:00	1.50	DRLIN2	02M	DRILLING - DRILLING - SLIDING	No	4	1	10311.00	SLIDE DRLG 9. 875" INTERM # 2 F/ 10, 291' - T/ 10, 311' (20' - 13FPH) MTF - 315, WOB 40, MRPM 111, GPM 670, SPM 160, SPP 2450PSI., DIFF 150PSI., MD. CUT 9. 4PPG., DRLG THROUGH FLOW LINE W/ 100% RETURNS

Personnel Hours

Vendor	Vendor Type	Number Of People	Hours On Site	Total Hours
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00
NORAM DRILLING COMPANY	TOOLPUSHER	1	24.00	24.00
NORAM DRILLING COMPANY	RIG CREWS	12	24.00	288.00
AES DRILLING FLUIDS LLC	1- MAN CREW	1	24.00	24.00
PHOENIX DIRECTIONAL DRILLERS	4- MAN CREW	4	24.00	96.00
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00

Rig Information

KB Elevation:	2797.00 ft	KB To GL :	25.00 ft		
Rig(s) for today :	Noram 27	Rig Manager :	TOBY JOHNSON	Rig Phone :	432-219-0731
Date and Time of Rig Release :		Days From Rig Release :	0.00	Rig Fax :	

Safety

Last BOP Test(F) Date :	3/19/2018	Last BOP Pressure :	1500.000 psi	Last Lot Fit :	0.00
Last Csg Date :	3/19/2018	Last Csg Pressure :	250.000 psi	Last Spills Reported :	
Last BOP Drill Date :		Last Test MW :	0.00	Last Accidents :	
Last Fire Drill :		Last Test TVD :	0.00 ft	Last Safety Meeting :	3/23/2018 19:00
Last Evac Drill :		Last Test Pressure :	0.000 psi	Last Safety Meeting Topic :	FLUID TANSFERS

Contacts

Day Sup. :	JONAS HALDEMAN	Phone :	903-571-6771	Superintendent :	SANTOS MOROLES	Phone :	432-559-4901
Night Sup. :	CHRIS KEIS	Phone :		Geologist :		Phone :	
Alt. Phone :				Drill. Eng. :	RICHARD HILL	Phone :	432-818-1726

Attachments

Daily Attachment Folder(s)

Daily Drilling Report P2

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 16 Report Date : 3/23/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Mud Data

Mud Engineer : J. BENGE Mud Type : Brine Polymer Type :

Chk	Time	Depth (ft)	Density (lbs/gal)	FV (s/qt)	YP (lbs/100 ft²)	PV (cP)	WL (cc/30 min)	Cl (ppm)	Electro Static Stability	Oil Ratio	H2O Ratio	HTHP Water Loss(cc/30 min)
1	22:00	10286.	9.50000	27.00	2	1.00	100.0	98000	0.0	0	93	0.0

Bit Data

Bit #	Run #	Size (in)	Mfg.	Model	IADC Code	Daily Drilled (ft)	Daily Hours	Daily ROP (ft/hr)	Cum Drilled (ft)	Cum Hrs.	Avg. ROP (ft/hr)	Depth In (ft)	Depth Out (ft)	Max WOB (M Lbs)	PSI Drop (psi)	Nozzle Velocity (ft/s)	HHP (HP)
4	1	9.875	ULTERRA	CF716		724.00	23.00	31.48	913.00	29.00	31.48	9587.00	10311.00	38.000	354.347	204.22	138.5

BHA Data

For Bit # : 4 Mud Motor : Total Made : 724 ft

Total BHA Hours : 146.5 Total Hours : 23.00

BHA # : 04 DC OD : 6.500 in DP OD : 5.000 in BHA Length : 74.70 ft BHA Weight 0.00 M Lbs

Item	Jts	Length (ft)	OD (in)	ID (in)	Coupling OD (in)	Weight (lbs/ft)	Thread Type	Pin/Box
MUD MOTOR	1	27.14	7.750	0.000	8.650	0.000	6- 5/8REG	Box
NON- MAG COLLAR	1	11.14	8.000	3.250	8.060	0.000	6- 5/8REG	Box
GAP SUB	1	3.56	8.060	0.000	8.060	0.000	6- 5/8REG	Box
NON- MAG COLLAR	1	29.84	8.000	3.310	8.000	0.000	6- 5/8REG	Box
CROSSOVER SUB	1	3.02	6.500	2.875	6.563	0.000	4- 1/2IF	Box

Drilling Parameters

Bit #	Run #	Depth (ft)	WOB (M Lbs)	RPM		GPM	Torque		String Weight			Pressure		
				Motor	Rotary		On Bom (ft lbf)	Off Bom (ft lbf)	Pick Up (lbs)	Stack Off (lbs)	Rotate (lbs)	On Bom (psi)	Off Bom (psi)	Diff Press. (psi)
4	1	10311.00	38.000	111	55	670	12000.00	2000.00	325	270	305	2450.0	2300.0	150.0

Pump Data

Bit #	Pump 1					Pump 2					Pump Pressure (psi)	AV DC (ft/min)	AV DP (ft/min)
	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)			
4	CE FB1600	12.000	6.000	80	334.923	CE FB1600	12.000	6.000	80	334.923	2450.00	297	226

Reduced Speed Pumps

Depth(ft)	Pump 1			Pump 2		
	Model	Pressure (psi)	SPM	Model	Pressure (psi)	SPM
10164.00	CE FB1600	120.0	30	CE FB1600	140.0	30

Daily Drilling Report P3

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 16 Report Date : 3/23/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Drill Bottom Hole Targets

Bottom Hole Location	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Survey Data

Depth (ft)	Deviation	Azimuth	TVD (ft)	N/S	N/S (ft)	E/W	E/W (ft)	Vertical Section (ft)	Dog Leg
9630.00	0.73	94.6	9628.50	N	4.28	E	26.78	3.38	0.76
9724.00	1.48	156.8	9722.49	N	3.11	E	27.85	4.79	1.37
9817.00	2.33	153.5	9815.43	N	0.32	E	29.17	7.85	0.91
9911.00	2.45	152.6	9909.35	S	-3.18	E	30.94	11.70	0.13
10007.00	2.68	149.1	10005.26	S	-6.92	E	33.04	15.88	0.29
10100.00	2.27	146.6	10098.17	S	-10.33	E	35.17	19.75	0.45
10195.00	0.87	156.8	10193.13	S	-12.56	E	36.49	22.26	1.47

Hook Loads

Up : 325

Down : 270

Rotating : 305

Torque : 0 Amps

Torque : 12000.00 ft lbf

Comments

UL 20 STRIPES 38-47 602H

RIG MOBILIZATION BEGAN - 03/08/2018 @ 00:00 HRS.
SPUD WELL @ 00:00 HRS ON 03/12/2018
(96 HR RIG MOVE, NO DIVERTER)

TOTAL HRS FROM SPUD: 288 HRS (12 DAYS)

NOTIFIED TRRC FOR SPUD @ 11:45 HRS 03/10/2018 (OPERATOR #2 AUDREY)
NOTIFIED TRRC FOR SURFACE CSG & CEMENT W/ TRRC JOB #2 AUDREY @ 1145 HRS 03/10/2018
NOTIFIED TRRC FOR INTERMEDIATE CSG & CMT, JOB # (OPERATOR #4 DIANA) @ 02:07 HRS 03/17/2018, DIANA OPERATOR #4.
NOTIFIED TRRC FOR 2ND INTERMEDIATE CMT, JOB # XXX @ XXX HRS, 03/XX/2018, XXX OPERATOR #X

LAST 5" DP INSP. (Red river) CAT- 4 W/ SHEAR WAVE – 03/08/2018.
421 jts kept w/Rig
33 jts sent to fishing tools
128 jts sent to NorAm yard
7 jts. down grade to Energen yd
Sent 16 jts & 1 lift sub to fishing tools

CLEAN/VISUAL INSPECT 742 JTS 4 1/2" DS-42, XX-XX-2018, XXX INSPECTION
742 JTS ACCEPTED BOTH ENDS AS PREMIUM

DAYS SINCE LAST LTA: (XXX DAYS):
CREW SHORTAGES (LAST 24HRS / TOTAL HRS): NO/NO
CREW DOUBLES (LAST 24 HRS / TOTAL HRS): NO/NO

DOWN TIME HRS (LAST 24HRS / TOTAL HRS): 0.0/ 3.5
NON PRODUCTIVE TIME (LAST 24HRS / TOTAL HRS): 0.5/19

OBM LOST TO WELL (LAST 24 HRS / TOTAL BBLS): 00 - BBLS / 00- BBL
OBM LOST: 0- BBLS TO FORMATION

OBM LOST: 0-BBLS TO CUTTINGS

13-3/8" 61# HCK-55 BTC SURFACE SET AT 437'
10-3/4"45.5# HCN-80 BTC INTERMEDIATE SET AT 4962'
7-5/8" 29.7# HCP-110 BTC SECOND INTERMEDIATE SET @ XXX' MD, XXX' TVD

INTERMEDIATE #2
BHA #4: 9.875" ULTERRA CF716 JETTED WITH 7 x14'S = 1.05 TFA // 7.75" PHOENIX MTR. 1.5° ADJ., (7/8LOBE, 4.0 STG., .166 REV/GAL) // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15JTS. 5" HWDP // TOTAL BHA = 1016.04' // DEPTH IN: 9398' // DEPTH OUT: XXXX' // FTG DRILLED: XXXX' // TOTAL DRLG HRS: XXXX // TOTAL MTR. HRS: XXXX // ROP: XX FPH // REASON PULLED: ..... // BIT GRADE = ...

INTERMEDIATE #2
BHA #3: 9.875" ULTERRA 616M, W/6x16's TFA: 1.1781 // PHOENIX MTR 7.75", 7/8 4.0,1.5° BENT SLICK SLEEVE. 0.166 RPG - // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15 JTS 5" HWDP// TOTAL BHA = 1016.33' // DEPTH IN: 4967' // DEPTH OUT: 9398' // FTG DRILLED: 4431' // TOTAL DRLG HRS: 51 // TOTAL MTR HRS: 52.5 // ROP: 86FPH // REASON PULLED: LOW R.O.P.// BIT GRADE = 4-2-BT-N--I-RO-PR

INTERMEDIATE #1
BHA #2: 12.25" ULTERRA CF616S, W/6x16's TFA: 1.1781 // PHOENIX MTR 7.75", 7/8 4.0,1.5° BENT STAB. 0.166 RPG - // 11.75" NORTRAK STAB // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 11.75 NORTRAK STAB // 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15 JTS 5" HWDP // TOTAL BHA = 1026.98' // DEPTH IN: 450' // DEPTH OUT: 4967' // FTG. DRILLED: 4517' // TOTAL DRLG. HRS.: 59.5 // TOTAL MTR. HRS: 60.5 // AVG. ROP: 81' FPH // REASON PULLED: TD / CSG. POINT // 1-1-CT-N-I-NO-TD

SURFACE #1
BHA #1: 17.5" ULTERRA U616S, W/9x16's TFA: 1.767 // TDI DIRECTIONAL MTR 9-5/8", 5/6 4.0,1.5° BENT SLICK 0.107 RPG - // IBS // MWD EXTREME // UBHO // 8" NMDC //17.25" NM IBS//8" NMDC//FILTER SUB// 8" SHOCK SUB // 12 - 8" DC // 1- XO SUBS //12- JTS 6.5" DC//XO// 15 JTS HWDP// TOTAL BHA = 1305.77 // DEPTH IN: 145' // DEPTH OUT: 450' // FTG. DRILLED: 305' // TOTAL DRLG HRS: 8 // TOTAL MTR. HRS: 11 // ROP: 38.1' FPH // REASON PULLED: CSG POINT // 1/1 BIT GRADE: 1-1-NO-A-I-NO-TD

STARTING RIG FUEL - 3200 GALLONS TRANSFERRED IN .

DIESEL USAGE:
RIG FUEL (DAILY/TOTAL): 1671 / 25,247
MUD DIESEL (DAILY/TOTAL 0 / 0
AUXILIARY EQUIPMENT (DAILY/TOTAL): 76 / 885 GALS
CERTARUS GAS (DAILY/TOTAL) 1008.60 / 2932.23 GALS

NO LEAKS OR SPILLS REPORTED OR OBSERVED

Solids Removal

Shakers

Shaker #	Bottom	Middle	Top

Other Solids Removal Equipment

Item	Hrs Run	Intake Density (lbs/gal)	Overflow Density (lbs/gal)	Underflow Density (lbs/gal)

Mud Log

Formation :
Background Gas :
Connection Gas :
Flare Length :
Trip Calc :

Well Incident

Report # :
Incident Date :
Report Date :
Problem Name :

Daily Drilling Report P1

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 17 Report Date : 3/24/2018

Financials

Daily Cost : $55,456 Cost to Date : $1,574,923

AFE # : PB18100003

AFE : $10,772,650 AFE Cost to Date : $1,574,923

Operations

Event Objective : Noram 27 D&C DB DEV WC A Event Sub Type : Drilling Prod

A.M. Ops : 00:00-06:00 DRILL 9.875" INTM. #2 F/11,075' - T/11,120, (45' - ' FPH), PUMP SWEEP, HOLE CLEAN, TURN MWD (VELOCITY) BATTERY OFF, SPOT KILL MUD, PUMP SLUG, FLOW CHECK, NO FLOW, TOH F/11,120' - T/3,500'

Ops Forecast : TOH FOR CURVE ASSY., P/U BHA #5, (CURVE ASSY.), TIH, SLIP AND CUT DRILL LINE, BEGIN BUILDING CURVE TOWARDS 60 DEG.

24hr. Summary : DRLG 9.875" INTM. #2 F/10,311' - T/11,075' (764' - 33FPH), CHANGE OUT SWIVEL PACKING, RIG SERVICE

Planning Status :

Elevations

GL 2772.00 ft Reserve Pit Freeboard : 0.00 ft

Progress

Days from Spud : 12 Progress : 764.00 ft MD at Report Time : 11075.00 ft

Rig on Location (days) : 17 Est. TD : 21672.00 ft TVD At Report Time : 0.00 ft

Event Dates

Spud Date	Spud Time	Suspended Drilling Date	Resume Drilling Date	Total Depth Date	Total Depth Time	Finished Drilling Date	Finished Drilling Time	Rig Released Date	Rig Released Time
3/12/2018	00:00								

Time Breakdown

Start Time : 00:00 Initial Depth : 0.00 ft Drilling Hours : 23.00 Total Drilling Hours : 164.50 Total Hours : 24.00 Time Code : DRILLING -

Drilling % : 95.83 Rotating % : 84.78 Sliding % : 15.22

Start Time	End Time	Hours	Phase	Activity		NPT	Bit #	Run #	Depth (ft)	Remarks
				Time Code	Description					
00:00	04:00	4.00	DRLIN2	02B	DRILLING - MTR/TURB - VERT	No	4	1	10442.00	DRLG 9.875" INTM. #2 F/10,311' - T/10,442' (131' - 33FPH) WOB 38, ROT 55 - 60, MRPM 111 - 118, GPM 670 - 712, SPM 160 - 170, SPP 2650PSI., DIFF. 450 PSI., TQ 12K, MD. WT. 9.4+ - 9.3+ PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
04:00	04:30	0.50	DRLIN2	02B	DRILLING - MTR/TURB - VERT	No	4	1	10458.00	DRLG 9.875" INTM. #2 F/10,442' - T/10,458' (16' - 32FPH) WOB 38, ROT 60, MRPM 118, GPM 712, SPM 170, SPP 2650PSI., DIFF. 450 PSI., TQ 12K, MD. WT. 9.3+ PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
04:30	08:00	3.50	DRLIN2	02M	DRILLING - DRILLING - SLIDING	No	4	1	10503.00	SLIDE DRLG 9.875" INTERM #2 F/10,458' - T/10,503' (45' - 12FPH) MTF - 330, WOB 40, MRPM 118, GPM 712, SPM 170, SPP 2450PSI., DIFF 150PSI., MD. CUT 9.3+ PPG., DRLG THROUGH FLOW LINE W/ 100% RETURNS
08:00	12:00	4.00	DRLIN2	02B	DRILLING - MTR/TURB - VERT	No	4	1	10703.00	DRLG 9.875" INTM. #2 F/10,503' - T/10,703' (200' - 50FPH) WOB 38, ROT 45/60, MRPM 118, GPM 712, SPM 170, SPP 2650PSI., DIFF. 450 PSI., TQ 12K, MD. WT. 9.3+ PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
12:00	13:00	1.00	DRLIN2	02B	DRILLING - MTR/TURB - VERT	No	4	1	10731.00	DRLG 9.875" INTM. #2 F/10,703' - T/10,731' (28' - 28FPH) WOB 38, ROT 45/60, MRPM 118, GPM 712, SPM 170, SPP 2650PSI., DIFF. 450 PSI., TQ 12K, MD. WT. 9.3+ PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
13:00	13:30	0.50	DRLIN2	10C	LUB RIG - RIG SERVICE - OTHER	No	4	1	10731.00	CHANGE OUT SWIVEL PACKING
13:30	15:30	2.00	DRLIN2	02B	DRILLING - MTR/TURB - VERT	No	4	1	10824.00	DRLG 9.875" INTM. #2 F/10,731' - T/10,824' (93' - 46FPH) WOB 38, ROT 45/60, MRPM 118, GPM 712, SPM 170, SPP 2650PSI., DIFF. 450 PSI., TQ 12K, MD. WT. 9.3+ PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
15:30	16:00	0.50	DRLIN2	10A	LUB RIG - DAILY SERVICE	No	4	1	10824.00	RIG SERVICE
16:00	22:00	6.00	DRLIN2	02B	DRILLING - MTR/TURB - VERT	No	4	1	11013.00	DRLG 9.875" INTM. #2 F/10,824' - T/11,013' (189' - 31FPH) WOB 40, ROT 45, MRPM 118, GPM 712, SPM 170, SPP 2800PSI., DIFF. 200 PSI., TQ 12K, MD. WT. 9.3+ PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
22:00	00:00	2.00	DRLIN2	02B	DRILLING - MTR/TURB - VERT	No	4	1	11075.00	DRLG 9.875" INTM. #2 F/11,013' - T/11,075' (62' - 31 FPH) WOB 40, ROT 45, MRPM 118, GPM 712, SPM 170, SPP 2800PSI., DIFF. 200 PSI., TQ 12K, MD. WT. 9.3+ PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS

Personnel Hours

Vendor	Vendor Type	Number Of People	Hours On Site	Total Hours
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00
NORAM DRILLING COMPANY	TOOLPUSHER	1	24.00	24.00
NORAM DRILLING COMPANY	RIG CREWS	12	24.00	288.00
AES DRILLING FLUIDS LLC	1- MAN CREW	1	24.00	24.00
PHOENIX DIRECTIONAL DRILLERS	4- MAN CREW	4	24.00	96.00

ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00

Rig Information

KB Elevation:	2797.00 ft	KB To GL :	25.00 ft		
Rig(s) for today :	Noram 27	Rig Manager :	TOBY JOHNSON	Rig Phone :	432-219-0731
Date and Time of Rig Release :		Days From Rig Release :	0.00	Rig Fax :	

Safety

Last BOP Test(F) Date :	3/19/2018	Last BOP Pressure :	1500.000 psi	Last Lot Fit :	0.00
Last Csg Date :	3/19/2018	Last Csg Pressure :	250.000 psi	Last Spills Reported :	
Last BOP Drill Date :	3/24/2018	Last Test MW :	0.00	Last Accidents :	
Last Fire Drill :		Last Test TVD :	0.00 ft	Last Safety Meeting :	3/23/2018 19:00
Last Evac Drill :		Last Test Pressure :	0.000 psi	Last Safety Meeting Topic :	BUILDING STDS IN THE DERRICK

Contacts

Day Sup. :	JONAS HALDEMAN	Phone :	903-571-6771	Superintendent :	SANTOS MOROLES	Phone :	432-559-4901
Night Sup. :	CHRIS KEIS	Phone :		Geologist :		Phone :	
Alt. Phone :				Drill. Eng. :	RICHARD HILL	Phone :	432-818-1726

Attachments

Daily Attachment Folder(s)

Daily Drilling Report P2

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 17 Report Date : 3/24/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Mud Data

Mud Engineer : J. BENGE Mud Type : Brine Polymer Type :

Chk	Time	Depth (ft)	Density (lbs/gal)	FV (s/qt)	YP (lbs/100 ft²)	PV (cP)	WL (cc/30 min)	Cl (ppm)	Electro Static Stability	Oil Ratio	H2O Ratio	HTHP Water Loss(cc/30 min)
1	22:15	11012.	9.30000	26.00	1	1.00	100.0	94000	0.0	0	94	0.0

Bit Data

Bit #	Run #	Size (in)	Mfg.	Model	IADC Code	Daily Drilled (ft)	Daily Hours	Daily ROP (ft/hr)	Cum Drilled (ft)	Cum Hrs.	Avg. ROP (ft/hr)	Depth In (ft)	Depth Out (ft)	Max WOB (M Lbs)	PSI Drop (psi)	Nozzle Velocity (ft/s)	HHP (HP)
4	1	9.875	ULTERRA	CF716		764.00	23.00	33.22	1677.00	52.00	32.25	10311.00	11075.00	40.000	391.603	216.99	162.6

BHA Data

For Bit # : 4 Mud Motor : Total Made : 764 ft

Total BHA Hours : 169.5 Total Hours : 23.00

BHA # : 04 DC OD : 6.500 in DP OD : 5.000 in BHA Length : 74.70 ft BHA Weight 0.00 M Lbs

Item	Jts	Length (ft)	OD (in)	ID (in)	Coupling OD (in)	Weight (lbs/ft)	Thread Type	Pin/Box
MUD MOTOR	1	27.14	7.750	0.000	8.650	0.000	6- 5/8REG	Box
NON- MAG COLLAR	1	11.14	8.000	3.250	8.060	0.000	6- 5/8REG	Box
GAP SUB	1	3.56	8.060	0.000	8.060	0.000	6- 5/8REG	Box
NON- MAG COLLAR	1	29.84	8.000	3.310	8.000	0.000	6- 5/8REG	Box
CROSSOVER SUB	1	3.02	6.500	2.875	6.563	0.000	4- 1/2IF	Box

Drilling Parameters

Bit #	Run #	Depth (ft)	WOB (M Lbs)	RPM		GPM	Torque		String Weight			Pressure		
				Motor	Rotary		On Bom (ft lbf)	Off Bom (ft lbf)	Pick Up (lbs)	Stack Off (lbs)	Rotate (lbs)	On Bom (psi)	Off Bom (psi)	Diff Press. (psi)
4	1	11075.00	40.000	118	45	670	12000.00	2000.00	350	275	325	2800.0	2600.0	200.0

Pump Data

Bit #	Pump 1					Pump 2					Pump Pressure (psi)	AV DC (ft/min)	AV DP (ft/min)
	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)			
4	CE FB1600	12.000	6.000	85	355.856	CE FB1600	12.000	6.000	85	355.856	2800.00	316	241

Reduced Speed Pumps

Depth(ft)	Pump 1			Pump 2		
	Model	Pressure (psi)	SPM	Model	Pressure (psi)	SPM
0.00	CE FB1600	120.0	30	CE FB1600	140.0	30

Daily Drilling Report P3

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 17 Report Date : 3/24/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Drill Bottom Hole Targets

Bottom Hole Location	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Survey Data

Depth (ft)	Deviation	Azimuth	TVD (ft)	N/S	N/S (ft)	E/W	E/W (ft)	Vertical Section (ft)	Dog Leg
10384.00	1.06	151.3	10382.11	S	-14.81	E	37.84	24.79	0.47
10478.00	0.63	210.2	10476.10	S	-16.01	E	37.99	25.99	0.95
10572.00	0.98	281.5	10570.10	S	-16.30	E	36.95	25.98	1.03
10667.00	0.98	320.0	10665.08	S	-15.52	E	35.63	24.86	0.67
10761.00	0.88	343.6	10759.07	S	-14.21	E	34.91	23.40	0.41
10855.00	0.95	346.8	10853.06	S	-12.76	E	34.53	21.90	0.09
10949.00	1.30	342.4	10947.04	S	-10.98	E	34.03	20.05	0.38

Hook Loads

Up : 350

Down : 275

Rotating : 325

Torque : 0 Amps

Torque : 12000.00 ft lbf

Comments

UL 20 STRIPES 38-47 602H

RIG MOBILIZATION BEGAN - 03/08/2018 @ 00:00 HRS.
SPUD WELL @ 00:00 HRS ON 03/12/2018
(96 HR RIG MOVE, NO DIVERTER)

TOTAL HRS FROM SPUD: 312 HRS (13 DAYS)

NOTIFIED TRRC FOR SPUD @ 11:45 HRS 03/10/2018 (OPERATOR #2 AUDREY)
NOTIFIED TRRC FOR SURFACE CSG & CEMENT W/ TRRC JOB #2 AUDREY @ 1145 HRS 03/10/2018
NOTIFIED TRRC FOR INTERMEDIATE CSG & CMT, JOB # (OPERATOR #4 DIANA) @ 02:07 HRS 03/17/2018, DIANA OPERATOR #4.
NOTIFIED TRRC FOR 2ND INTERMEDIATE CMT, JOB # XXX @ XXX HRS, 03/XX/2018, XXX OPERATOR #X

LAST 5" DP INSP. (Red river) CAT- 4 W/ SHEAR WAVE – 03/08/2018.
421 jts kept w/Rig
33 jts sent to fishing tools
128 jts sent to NorAm yard
7 jts. down grade to Energen yd
Sent 16 jts & 1 lift sub to fishing tools

CLEAN/VISUAL INSPECT 742 JTS 4 1/2" DS-42, XX-XX-2018, XXX INSPECTION
742 JTS ACCEPTED BOTH ENDS AS PREMIUM

DAYS SINCE LAST LTA: (XXX DAYS):
CREW SHORTAGES (LAST 24HRS / TOTAL HRS): NO/NO
CREW DOUBLES (LAST 24 HRS / TOTAL HRS): NO/NO

DOWN TIME HRS (LAST 24HRS / TOTAL HRS): 0.0/ 3.5
NON PRODUCTIVE TIME (LAST 24HRS / TOTAL HRS): 0.0/19

OBM LOST TO WELL (LAST 24 HRS / TOTAL BBLS): 00 - BBLS / 00- BBL
OBM LOST: 0- BBLS TO FORMATION

OBM LOST: 0-BBLS TO CUTTINGS

13-3/8" 61# HCK-55 BTC SURFACE SET AT 437'
10-3/4"45.5# HCN-80 BTC INTERMEDIATE SET AT 4962'
7-5/8" 29.7# HCP-110 BTC SECOND INTERMEDIATE SET @ XXX' MD, XXX' TVD

INTERMEDIATE #2
BHA #4: 9.875" ULTERRA CF716 JETTED WITH 7 x14'S = 1.05 TFA // 7.75" PHOENIX MTR. 1.5° ADJ., (7/8LOBE, 4.0 STG., .166 REV/GAL) // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15JTS. 5" HWDP // TOTAL BHA = 1016.04' // DEPTH IN: 9398' // DEPTH OUT: XXXX' // FTG DRILLED: XXXX' // TOTAL DRLG HRS: XXXX // TOTAL MTR. HRS: XXXX // ROP: XX FPH // REASON PULLED: ..... // BIT GRADE = ...

INTERMEDIATE #2
BHA #3: 9.875" ULTERRA 616M, W/6x16's TFA: 1.1781 // PHOENIX MTR 7.75", 7/8 4.0,1.5° BENT SLICK SLEEVE. 0.166 RPG - // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15 JTS 5" HWDP// TOTAL BHA = 1016.33' // DEPTH IN: 4967' // DEPTH OUT: 9398' // FTG DRILLED: 4431' // TOTAL DRLG HRS: 51 // TOTAL MTR HRS: 52.5 // ROP: 86FPH // REASON PULLED: LOW R.O.P.// BIT GRADE = 4-2-BT-N--I-RO-PR

INTERMEDIATE #1
BHA #2: 12.25" ULTERRA CF616S, W/6x16's TFA: 1.1781 // PHOENIX MTR 7.75", 7/8 4.0,1.5° BENT STAB. 0.166 RPG - // 11.75" NORTRAK STAB // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 11.75 NORTRAK STAB // 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15 JTS 5" HWDP // TOTAL BHA = 1026.98' // DEPTH IN: 450' // DEPTH OUT: 4967' // FTG. DRILLED: 4517' // TOTAL DRLG. HRS.: 59.5 // TOTAL MTR. HRS: 60.5 // AVG. ROP: 81' FPH // REASON PULLED: TD / CSG. POINT // 1-1-CT-N-I-NO-TD

SURFACE #1
BHA #1: 17.5" ULTERRA U616S, W/9x16's TFA: 1.767 // TDI DIRECTIONAL MTR 9-5/8", 5/6 4.0,1.5° BENT SLICK 0.107 RPG - // IBS // MWD EXTREME // UBHO // 8" NMDC //17.25" NM IBS//8" NMDC//FILTER SUB// 8" SHOCK SUB // 12 - 8" DC // 1- XO SUBS //12- JTS 6.5" DC//XO// 15 JTS HWDP// TOTAL BHA = 1305.77 // DEPTH IN: 145' // DEPTH OUT: 450' // FTG. DRILLED: 305' // TOTAL DRLG HRS: 8 // TOTAL MTR. HRS: 11 // ROP: 38.1' FPH // REASON PULLED: CSG POINT // 1/1 BIT GRADE: 1-1-NO-A-I-NO-TD

STARTING RIG FUEL - 3200 GALLONS TRANSFERRED IN .

DIESEL USAGE:
RIG FUEL (DAILY/TOTAL): 1866 / 27,113
MUD DIESEL (DAILY/TOTAL 0 / 0
AUXILIARY EQUIPMENT (DAILY/TOTAL): 0.0 / 885 GALS
CERTARUS GAS (DAILY/TOTAL) 1131.11 / 4063.34 GALS

NO LEAKS OR SPILLS REPORTED OR OBSERVED

Solids Removal

Shakers

Shaker #	Bottom	Middle	Top

Other Solids Removal Equipment

Item	Hrs Run	Intake Density (lbs/gal)	Overflow Density (lbs/gal)	Underflow Density (lbs/gal)

Mud Log

Formation :
Background Gas :
Trip Calc :
Connection Gas :
Flare Length :

Well Incident

Report # :
Incident Date :
Report Date :
Problem Name :

Daily Drilling Report P1

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 18 Report Date : 3/25/2018

Financials

Daily Cost : $59,900 Cost to Date : $1,634,822

AFE # : PB18100003

AFE : $10,772,650 AFE Cost to Date : $1,634,822

Operations

Event Objective : Noram 27 D&C DB DEV WC A Event Sub Type : Drilling Prod

A.M. Ops : 00:00-06:00 DRILL 9.875" CURVE F/11,292' - T/11,470' (178' - 29FPH)

Ops Forecast : TD CURVE @ 60 DEG. +/- 11,895', TOH, LAY DOWN 5" DP, R/U & RUN 7.625" CSG.

24hr. Summary : DRLG 9.875" INTM. #2 F/11,075' - T/11,120' (45' - 45FPH), CTCH AND SPOT KM, TOH TO SURF., L/D VERT. BHA, P/U CURVE (BHA #5), TIH TO 11,120', SLIDE DRLG 9.875" INTERM #2 F/11,120' - T/11,292' (172' - 43FPH)

Planning Status :

Elevations

GL 2772.00 ft Reserve Pit Freeboard : 0.00 ft

Progress

Days from Spud : 13 Progress : 217.00 ft MD at Report Time : 11292.00 ft

Rig on Location (days) : 18 Est. TD : 21672.00 ft TVD At Report Time : 0.00 ft

Event Dates

Spud Date	Spud Time	Suspended Drilling Date	Resume Drilling Date	Total Depth Date	Total Depth Time	Finished Drilling Date	Finished Drilling Time	Rig Released Date	Rig Released Time
3/12/2018	00:00								

Time Breakdown

Start Time : 00:00 Initial Depth : 0.00 ft Drilling Hours : 5.00 Total Drilling Hours : 169.50 Total Hours : 24.00 Time Code : DRILLING -

Drilling % : 20.83 Rotating % : 20.00 Sliding % : 80.00

Start Time	End Time	Hours	Phase	Activity		NPT	Bit #	Run #	Depth (ft)	Remarks
				Time Code	Description					
00:00	01:00	1.00	DRLIN2	02B	DRILLING - MTR/TURB - VERT	No	4	1	11120.00	DRLG 9.875" INTM. #2 F/11,075' - T/11,120' (45' - 45FPH) WOB 40, ROT 45, MRPM 118, GPM 712, SPM 170, SPP 2800PSI., DIFF. 200 PSI., TQ 12K, MD. WT. 9.3+ PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
01:00	02:30	1.50	DRINC	07C	C & C MUD - PRIOR TO TRIP	No	4		11120.00	DOWNLINK MWD TO TURN BATTERY OFF, CTCH - PUMP 70BBLS. 11.5PPG. KM, 355BBLS. 9.4PPG. ACT., 60BBLS. 11.5PPG. KM, AND 10BBLS. 9.4PPG. ACT. - FLOW CHECK, WELL STATIC
02:30	10:00	7.50	DRINC	08A	TRIPPING - BIT/ BHA	No	4		11120.00	TOH FOR CURVE ASSY. F/11,120' - T/SURF., NO TIGHT SPOTS, MONITOR FILL ON TRIP TANK
10:00	17:30	7.50	DRINC	08A	TRIPPING - BIT/ BHA	No	5	1	11120.00	P/U, M/U, SCRIBE, AND TEST BHA # 5 CONSISTING OF: 9.875" ULTERRA CF613 JETTED WITH 3 x16' S x 3 x 18' S = 1.33 TFA // 7.75" PHOENIX MTR. 2.38° ADJ., (4/5LOBE, 5.3 STG., .253 REV/GAL) // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC // 1 - XO SUB // 36 - JTS. OF 5" DP // 15JTS. 5" HWDP // TOTAL BHA = 1678.92' - TIH T/9540, MONITORED DISPL. ON TRIP TANK, HAD TIGHT SPOT @ 9055' - SLACKED OFF TO NEUTRAL WT., MADE UP TD AND ROTATED 10RPM'S UNTIL STRING FREED - CONTINUED TIH WITH NO OTHER TIGHTS SPOTS
17:30	18:00	0.50	DRINC	21B	NU/ ND BOPE - RUN/ PULL BOPE	No	5	1	11120.00	PULL TRIP NIPPLE AND INSTALL ROT. HEAD RUBBER
18:00	20:00	2.00	DRINC	08A	TRIPPING - BIT/ BHA	No	5	1	11120.00	CONT. TIH F/9540' - T/BTTM., MOMITORED FILL ON TRIP TANK, NO TIGHT SPOTS
20:00	00:00	4.00	DRINC	02M	DRILLING - DRILLING - SLIDING	No	5	1	11292.00	SLIDE DRLG 9.875" INTERM # 2 F/11,120' - T/11,292' (172' - 43FPH) MTF - 163, WOB 40, MRPM 118, GPM 712, SPM 170, SPP 2500PSI., DIFF 450PSI., MD. CUT 9.5PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS

Personnel Hours

Vendor	Vendor Type	Number Of People	Hours On Site	Total Hours
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00
NORAM DRILLING COMPANY	TOOLPUSHER	1	24.00	24.00
NORAM DRILLING COMPANY	RIG CREWS	12	24.00	288.00
AES DRILLING FLUIDS LLC	1- MAN CREW	1	24.00	24.00
PHOENIX DIRECTIONAL DRILLERS	4- MAN CREW	4	24.00	96.00
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00

Rig Information

KB Elevation: 2797.00 ft KB To GL : 25.00 ft

Rig(s) for today : Noram 27 Rig Manager : TOBY JOHNSON Rig Phone : 432-219-0731

Date and Time of Rig Release : Days From Rig Release : 0.00 Rig Fax :

Safety

Last BOP Test(F) Date : 3/19/2018 Last BOP Pressure : 1500.000 psi Last Lot Fit : 0.00

Last Csg Date : 3/19/2018 Last Csg Pressure : 250.000 psi Last Spills Reported :

Last BOP Drill Date :	3/24/2018	Last Test MW :	0.00		Last Accidents :		
Last Fire Drill :		Last Test TVD :	0.00	ft	Last Safety Meeting :	3/25/2018 19:00	
Last Evac Drill :		Last Test Pressure :	0.000	psi	Last Safety Meeting Topic :	DRILLING, HOUSE CLEANING	

Contacts

Day Sup. :	JONAS HALDEMAN	Phone :	903-571-6771	Superintendent :	SANTOS MOROLES	Phone :	432-559-4901
Night Sup. :	CHRIS KEIS	Phone :		Geologist :		Phone :	
Alt. Phone :				Drill. Eng. :	RICHARD HILL	Phone :	432-818-1726

Attachments

Daily Attachment Folder(s)

Daily Drilling Report P2

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 18 Report Date : 3/25/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Mud Data

Mud Engineer : J. BENGE Mud Type : Brine Polymer Type :

Chk	Time	Depth (ft)	Density (lbs/gal)	FV (s/qt)	YP (lbs/100 ft²)	PV (cP)	WL (cc/30 min)	Cl (ppm)	Electro Static Stability	Oil Ratio	H2O Ratio	HTHP Water Loss(cc/30 min)
1	22:00	11207.	9.40000	28.00	2	1.00	0.0	10100	0.0	0	94	0.0

Bit Data

Bit #	Run #	Size (in)	Mfg.	Model	IADC Code	Daily Drilled (ft)	Daily Hours	Daily ROP (ft/hr)	Cum Drilled (ft)	Cum Hrs.	Avg. ROP (ft/hr)	Depth In (ft)	Depth Out (ft)	Max WOB (M Lbs)	PSI Drop (psi)	Nozzle Velocity (ft/s)	HHP (HP)
4	1	9.875	ULTERRA	CF716		45.00	1.00	45.00	1722.00	53.00	32.49	11075.00	11120.00	40.000	395.814	216.99	164.4
5	1	9.875	ULTERRA	CF613		172.00	4.00	43.00	172.00	4.00	43.00	11120.00	11292.00	40.000	246.094	171.10	102.2

BHA Data

For Bit # : 4 Mud Motor : Total Made : 217 ft

Total BHA Hours : 176.0 Total Hours : 5.00

BHA # : 05 DC OD : 8.000 in DP OD : 5.000 in BHA Length : 1209.36 ft BHA Weight 0.00 M Lbs

Item	Jts	Length (ft)	OD (in)	ID (in)	Coupling OD (in)	Weight (lbs/ft)	Thread Type	Pin/Box
MUD MOTOR	1	29.88	7.750	0.000	8.650	0.000	6- 5/8REG	Box
NON- MAG COLLAR	1	11.14	8.000	3.250	8.060	0.000	6- 5/8REG	Box
GAP SUB	1	3.56	8.060	0.000	8.060	0.000	6- 5/8REG	Box
NON- MAG COLLAR	1	29.84	8.000	3.310	8.000	0.000	6- 5/8REG	Box
CROSSOVER SUB	1	2.58	7.630	2.880	0.000	0.000	4- 1/2XH	Box
DRILLPIPE	36	1132.36	5.000	4.276	0.000	0.000	4- 1/2IF	Box

Drilling Parameters

Bit #	Run #	Depth (ft)	WOB (M Lbs)	RPM		GPM	Torque		String Weight			Pressure		
				Motor	Rotary		On Bom (ft lbf)	Off Bom (ft lbf)	Pick Up (lbs)	Stack Off (lbs)	Rotate (lbs)	On Bom (psi)	Off Bom (psi)	Diff Press. (psi)
4	1	11120.00	40.000	118	0	670	0.00	2000.00	350	270	300	2500.0	2050.0	450.0

Pump Data

Bit #	Pump 1					Pump 2					Pump Pressure (psi)	AV DC (ft/min)	AV DP (ft/min)
	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)			
4	CE FB1600	12.000	6.000	85	355.856	CE FB1600	12.000	6.000	85	355.856	2800.00	520	241
5	CE FB1600	12.000	6.000	85	355.856	CE FB1600	12.000	6.000	85	355.856	2500.00	520	241

Reduced Speed Pumps

Depth(ft)	Pump 1			Pump 2		
	Model	Pressure (psi)	SPM	Model	Pressure (psi)	SPM
0.00	CE FB1600	120.0	30	CE FB1600	140.0	30

Daily Drilling Report P3

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 18 Report Date : 3/25/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Drill Bottom Hole Targets

Bottom Hole Location	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Survey Data

Depth (ft)	Deviation	Azimuth	TVD (ft)	N/S	N/S (ft)	E/W	E/W (ft)	Vertical Section (ft)	Dog Leg
11151.00	4.03	159.5	11148.95	S	-11.47	E	34.18	20.57	4.82

Hook Loads

Up :	330	
Down :	270	
Rotating :	305	
Torque :	0	Amps
Torque :	15000.00	ft lbf

Comments

UL 20 STRIPES 38-47 602H

RIG MOBILIZATION BEGAN - 03/08/2018 @ 00:00 HRS.
SPUD WELL @ 00:00 HRS ON 03/12/2018
(96 HR RIG MOVE, NO DIVERTER)

TOTAL HRS FROM SPUD: 336 HRS (14 DAYS)

NOTIFIED TRRC FOR SPUD @ 11:45 HRS 03/10/2018 (OPERATOR #2 AUDREY)
NOTIFIED TRRC FOR SURFACE CSG & CEMENT W/ TRRC JOB #2 AUDREY @ 1145 HRS 03/10/2018
NOTIFIED TRRC FOR INTERMEDIATE CSG & CMT, JOB # (OPERATOR #4 DIANA) @ 02:07 HRS 03/17/2018, DIANA OPERATOR #4.
NOTIFIED TRRC FOR 2ND INTERMEDIATE CMT, JOB # XXX @ XXX HRS, 03/XX/2018, XXX OPERATOR #X

LAST 5" DP INSP. (Red river) CAT- 4 W/ SHEAR WAVE – 03/08/2018.
421 jts kept w/Rig
33 jts sent to fishing tools
128 jts sent to NorAm yard
7 jts. down grade to Energen yd
Sent 16 jts & 1 lift sub to fishing tools

CLEAN/VISUAL INSPECT 742 JTS 4 1/2" DS-42, XX-XX-2018, XXX INSPECTION
742 JTS ACCEPTED BOTH ENDS AS PREMIUM

DAYS SINCE LAST LTA: (XXX DAYS):
CREW SHORTAGES (LAST 24HRS / TOTAL HRS): NO/NO
CREW DOUBLES (LAST 24 HRS / TOTAL HRS): NO/NO

DOWN TIME HRS (LAST 24HRS / TOTAL HRS): 0.0/ 3.5
NON PRODUCTIVE TIME (LAST 24HRS / TOTAL HRS): 0.0/19

OBM LOST TO WELL (LAST 24 HRS / TOTAL BBLS): 00 - BBLS / 00- BBL
OBM LOST: 0- BBLS TO FORMATION

OBM LOST: 0-BBLS TO CUTTINGS

13-3/8" 61# HCK-55 BTC SURFACE SET AT 437'
10-3/4"45.5# HCN-80 BTC INTERMEDIATE SET AT 4962'
7-5/8" 29.7# HCP-110 BTC SECOND INTERMEDIATE SET @ XXX' MD, XXX' TVD

CURVE #1
BHA #5 CONSISTING OF: 9.875" ULTERRA CF613 JETTED WITH 3 x16'S x 3 x 18'S = 1.33 TFA // 7.75" PHOENIX MTR. 2.38° ADJ., (4/5LOBE, 5.3 STG., .253 REV/GAL) // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC // 1- XO SUB // 36-JTS. OF 5"DP // 15JTS. 5" HWDP // TOTAL BHA = 1678.92' // DEPTH IN: 11,120' // DEPTH OUT: XXXX' // FTG DRILLED: XXXX' // TOTAL DRLG HRS: XX // TOTAL MTR. HRS: XX // ROP: XX FPH // REASON PULLED: XXXXXXXX // BIT GRADE = XXXXXXXXXXXX

INTERMEDIATE #2
BHA #4: 9.875" ULTERRA CF716 JETTED WITH 7 x14'S = 1.05 TFA // 7.75" PHOENIX MTR. 1.5° ADJ., (7/8LOBE, 4.0 STG., .166 REV/GAL) // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15JTS. 5" HWDP // TOTAL BHA = 1016.04' // DEPTH IN: 9398' // DEPTH OUT: 11,120' // FTG DRILLED: 1722' // TOTAL DRLG HRS: 53 // TOTAL MTR. HRS: 54.5 // ROP: 32 FPH // REASON PULLED: CHANGE BHA // BIT GRADE = 1-1-CT-S--I-CT-BHA

INTERMEDIATE #2
BHA #3: 9.875" ULTERRA 616M, W/6x16's TFA: 1.1781 // PHOENIX MTR 7.75", 7/8 4.0,1.5° BENT SLICK SLEEVE. 0.166 RPG - // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15 JTS 5" HWDP// TOTAL BHA = 1016.33' // DEPTH IN: 4967' // DEPTH OUT: 9398' // FTG DRILLED: 4431' // TOTAL DRLG HRS: 51 // TOTAL MTR HRS: 52.5 // ROP: 86FPH // REASON PULLED: LOW R.O.P.// BIT GRADE = 4-2-BT-N--I-RO-PR

INTERMEDIATE #1
BHA #2: 12.25" ULTERRA CF616S, W/6x16's TFA: 1.1781 // PHOENIX MTR 7.75", 7/8 4.0,1.5° BENT STAB. 0.166 RPG - // 11.75" NORTRAK STAB // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 11.75 NORTRAK STAB // 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15 JTS 5" HWDP // TOTAL BHA = 1026.98' // DEPTH IN: 450' // DEPTH OUT: 4967' // FTG. DRILLED: 4517' // TOTAL DRLG. HRS.: 59.5 // TOTAL MTR. HRS: 60.5 // AVG. ROP: 81' FPH // REASON PULLED: TD / CSG. POINT // 1-1-CT-N-I-NO-TD

SURFACE #1
BHA #1: 17.5" ULTERRA U616S, W/9x16's TFA: 1.767 // TDI DIRECTIONAL MTR 9-5/8", 5/6 4.0,1.5° BENT SLICK 0.107 RPG - // IBS // MWD EXTREME // UBHO // 8" NMDC //17.25" NM IBS//8" NMDC//FILTER SUB// 8" SHOCK SUB // 12 - 8" DC // 1- XO SUBS //12- JTS 6.5" DC//XO// 15 JTS HWDP// TOTAL BHA = 1305.77 // DEPTH IN: 145' // DEPTH OUT: 450' // FTG. DRILLED: 305' // TOTAL DRLG HRS: 8 // TOTAL MTR. HRS: 11 // ROP: 38.1' FPH // REASON PULLED: CSG POINT // 1/1 BIT GRADE: 1-1-NO-A-I-NO-TD

STARTING RIG FUEL - 3200 GALLONS TRANSFERRED IN .

DIESEL USAGE:
RIG FUEL (DAILY/TOTAL): 1103 / 28,216
MUD DIESEL (DAILY/TOTAL 0 / 0
AUXILIARY EQUIPMENT (DAILY/TOTAL): 108 / 993 GALS
CERTARUS GAS (DAILY/TOTAL) 1178.93 / 5242.27 GALS

NO LEAKS OR SPILLS REPORTED OR OBSERVED

Solids Removal

Shakers

Shaker #	Bottom	Middle	Top	

Other Solids Removal Equipment

Item	Hrs Run	Intake Density (lbs/gal)	Overflow Density (lbs/gal)	Underflow Density (lbs/gal)	

Mud Log

Formation :
Background Gas :
Connection Gas :
Flare Length :
Trip Calc :

Well Incident

Report # :
Incident Date :
Report Date :

Daily Drilling Report P1

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 19 Report Date : 3/26/2018

Financials

Daily Cost : $47,043 Cost to Date : $1,681,865

AFE # : PB18100003

AFE : $10,772,650 AFE Cost to Date : $1,681,865

Operations

Event Objective : Noram 27 D&C DB DEV WC A Event Sub Type : Drilling Prod

A.M. Ops : 00:00-06:00 DRILL 9.875" CURVE F/12,050' - T/12,082' (32' - 32FPH), PULL TO TOP OF CURVE, L/D DRILL PIPE

Ops Forecast : L/D DP, AND BHA, R/U & RUN 7.625" CSG

24hr. Summary : DRILL 9.875" CURVE F/11,292' - T/12,050' (758' - 32FPH), SERVICE RIG

Planning Status :

Elevations

GL 2772.00 ft Reserve Pit Freeboard : 0.00 ft

Progress

Days from Spud : 14 Progress : 758.00 ft MD at Report Time : 12050.00 ft

Rig on Location (days) : 19 Est. TD : 21672.00 ft TVD At Report Time : 0.00 ft

Event Dates

Spud Date	Spud Time	Suspended Drilling Date	Resume Drilling Date	Total Depth Date	Total Depth Time	Finished Drilling Date	Finished Drilling Time	Rig Released Date	Rig Released Time
3/12/2018	00:00								

Time Breakdown

Start Time : 00:00 Initial Depth : 0.00 ft Drilling Hours : 23.50 Total Drilling Hours : 193.00 Total Hours : 24.00 Time Code : DRILLING -

Drilling % : 97.92 Rotating % : 40.43 Sliding % : 59.57

Start Time	End Time	Hours	Phase	Activity Time Code	Activity Description	NPT	Bit #	Run #	Depth (ft)	Remarks
00:00	00:30	0.50	DRINC	02D	DRILLING - MTR/TURB - DIR/HORZ	No	5	1	11296.00	DRILL 9.875" CURVE F/11,292' - T/11,296' (4' - 8FPH) WOB 20, RPM 15, MRPM 180, GPM 711, SPM 170, SPP 2500PSI., DIFF. 200/ 450PSI., TQ. 12/15K, MD. WT. 9.5PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
00:30	01:30	1.00	DRINC	02M	DRILLING - DRILLING - SLIDING	No	5	1	11332.00	SLIDE DRILL 9.875" CURVE F/11,296' - T/11,332' (36' - 36FPH) TF- 30R, WOB 40, MRPM 180, GPM 712, SPP 2500PSI., DIFF 450PSI., MD. WT. 9.5PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
01:30	02:00	0.50	DRINC	02D	DRILLING - MTR/TURB - DIR/HORZ	No	5	1	11344.00	DRILL 9.875" CURVE F/11,332' - T/11,344' (12' - FPH) WOB 20, RPM 15, MRPM 180, GPM 711, SPM 170, SPP 2500PSI., DIFF. 200/ 450PSI., TQ. 12/15K, MD. WT. 9.5PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
02:00	02:30	0.50	DRINC	02M	DRILLING - DRILLING - SLIDING	No	5	1	11379.00	SLIDE DRILL 9.875" CURVE F/11,344' - T/11,379' (35' - 70FPH) TF- 25R, WOB 30/40, MRPM 180, GPM 712, SPP 2500PSI., DIFF 450PSI., MD. WT. 9.5PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
02:30	03:00	0.50	DRINC	02D	DRILLING - MTR/TURB - DIR/HORZ	No	5	1	11390.00	DRILL 9.875" CURVE F/11,379' - T/11,390' (11' - 11FPH) WOB 20, RPM 15, MRPM 180, GPM 711, SPM 170, SPP 2500PSI., DIFF. 200/ 450PSI., TQ. 12/15K, MD. WT. 9.5PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
03:00	04:00	1.00	DRINC	02M	DRILLING - DRILLING - SLIDING	No	5	1	11426.00	SLIDE DRILL 9.875" CURVE F/11,390' - T/11,426' (36' - 36FPH) TF- 30R, WOB 30/40, MRPM 180, GPM 712, SPP 2500PSI., DIFF 450PSI., MD. WT. 9.5PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
04:00	04:30	0.50	DRINC	02D	DRILLING - MTR/TURB - DIR/HORZ	No	5	1	11438.00	DRILL 9.875" CURVE F/11,426' - T/11,438' (12' - 24FPH) WOB 20, RPM 15, MRPM 180, GPM 711, SPM 170, SPP 2500PSI., DIFF. 200/ 450PSI., TQ. 12/15K, MD. WT. 9.5PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
04:30	06:30	2.00	DRINC	02M	DRILLING - DRILLING - SLIDING	No	5	1	11473.00	SLIDE DRILL 9.875" CURVE F/11,438' - T/11,473' (35' - 35FPH) TF- HS, WOB 30/40, MRPM 180, GPM 712, SPP 2500PSI., DIFF 450PSI., MD. WT. 9.5PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
06:30	07:00	0.50	DRINC	02D	DRILLING - MTR/TURB - DIR/HORZ	No	5	1	11485.00	DRILL 9.875" CURVE F/11,473' - T/11,485' (12' - 24FPH) WOB 20, RPM 15, MRPM 180, GPM 711, SPM 170, SPP 2500PSI., DIFF. 200/ 450PSI., TQ. 12/15K, MD. WT. 9.5PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
07:00	08:00	1.00	DRINC	02M	DRILLING - DRILLING - SLIDING	No	5	1	11521.00	SLIDE DRILL 9.875" CURVE F/11,485' - T/11,521' (36' - 35FPH) TF- 20R, WOB 30/40, MRPM 180, GPM 712, SPP 2500PSI., DIFF 450PSI., MD. WT. 9.5PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
08:00	08:30	0.50	DRINC	02D	DRILLING - MTR/TURB - DIR/HORZ	No	5	1	11533.00	DRILL 9.875" CURVE F/11,521' - T/11,533' (12' - 24FPH) WOB 22, RPM 15, MRPM 180, GPM 711, SPM 170, SPP 2550PSI., DIFF. 250PSI., TQ. 12K, MD. WT. 9.5PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
08:30	09:30	1.00	DRINC	02M	DRILLING - DRILLING - SLIDING	No	5	1	11568.00	SLIDE DRILL 9.875" CURVE F/11,533' - T/11,568' (35' - 35FPH) TF- 20R, WOB 30, MRPM 180, GPM 712, SPP 2600PSI., DIFF 250PSI., MD. WT. 9.5PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
										DRILL 9.875" CURVE F/11,568' - T/11,580' (12' - 24FPH) WOB 25,

09:30	10:00	0.50	DRINC	02D	DRILLING - MTR/TURB - DIR/HORZ	No	5	1	11580.00	RPM 15, MRPM 180, GPM 711, SPM 170, SPP 2550PSI., DIFF. 250PSI., TQ. 12K, MD. WT. 9. 5PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
10:00	11:00	1.00	DRINC	02M	DRILLING - DRILLING - SLIDING	No	5	1	11610.00	SLIDE DRILL 9. 875" CURVE F/ 11, 580' - T/ 11, 610' (30' - 30FPH) TF- 0, WOB 33, MRPM 180, GPM 712, SPP 2650PSI., DIFF 350PSI., MD. WT. 9. 5PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
11:00	11:30	0.50	DRINC	02D	DRILLING - MTR/TURB - DIR/HORZ	No	5	1	11627.00	DRILL 9. 875" CURVE F/ 11, 610' - T/ 11, 627' (17' - 34FPH) WOB 25, RPM 15, MRPM 180, GPM 711, SPM 170, SPP 2550PSI., DIFF. 250PSI., TQ. 10K, MD. WT. 9. 5PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
11:30	12:30	1.00	DRINC	02M	DRILLING - DRILLING - SLIDING	No	5	1	11658.00	SLIDE DRILL 9. 875" CURVE F/ 11, 627' - T/ 11, 658' (31' - 31FPH) TF- 0, WOB 33, MRPM 180, GPM 712, SPP 2650PSI., DIFF 350PSI., MD. WT. 9. 5PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
12:30	13:30	1.00	DRINC	02D	DRILLING - MTR/TURB - DIR/HORZ	No	5	1	11673.00	DRILL 9. 875" CURVE F/ 11, 658' - T/ 11, 673' (15' - 15FPH) WOB 25, RPM 15, MRPM 180, GPM 711, SPM 170, SPP 2550PSI., DIFF. 250PSI., TQ. 10K, MD. WT. 9. 5PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
13:30	14:30	1.00	DRINC	02M	DRILLING - DRILLING - SLIDING	No	5	1	11704.00	SLIDE DRILL 9. 875" CURVE F/ 11, 673' - T/ 11, 704' (31' - 31FPH) TF- 0, WOB 37, MRPM 180, GPM 712, SPP 2650PSI., DIFF 350PSI., MD. WT. 9. 5PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
14:30	15:00	0.50	DRINC	02D	DRILLING - MTR/TURB - DIR/HORZ	No	5	1	11721.00	DRILL 9. 875" CURVE F/ 11, 704' - T/ 11, 721' (17' - 34FPH) WOB 25, RPM 15, MRPM 180, GPM 711, SPM 170, SPP 2550PSI., DIFF. 250PSI., TQ. 10K, MD. WT. 9. 5PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
15:00	15:30	0.50	DRINC	02M	DRILLING - DRILLING - SLIDING	No	5	1	11746.00	SLIDE DRILL 9. 875" CURVE F/ 11, 721' - T/ 11, 746' (25' - 50FPH) TF- 10 R, WOB 25, MRPM 180, GPM 712, SPP 2550PSI., DIFF 250PSI., MD. WT. 9. 5PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
15:30	16:00	0.50	DRINC	02D	DRILLING - MTR/TURB - DIR/HORZ	No	5	1	11768.00	DRILL 9. 875" CURVE F/ 11, 746' - T/ 11, 768' (22' - 44FPH) WOB 25, RPM 15, MRPM 180, GPM 711, SPM 170, SPP 2550PSI., DIFF. 250PSI., TQ. 10K, MD. WT. 9. 5PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
16:00	16:30	0.50	DRINC	10A	LUB RIG - DAILY SERVICE	No	5	1	11768.00	RIG SERVICE
16:30	18:00	1.50	DRINC	02D	DRILLING - MTR/TURB - DIR/HORZ	No	5	1	11845.00	DRILL 9. 875" CURVE F/ 11, 768' - T/ 11, 845' (77' - 51FPH) WOB 25, RPM 15, MRPM 180, GPM 711, SPM 170, SPP 2550PSI., DIFF. 250PSI., TQ. 10K, MD. WT. 9. 5PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
18:00	19:30	1.50	DRINC	02M	DRILLING - DRILLING - SLIDING	No	5	1	11892.00	SLIDE DRILL 9. 875" CURVE F/ 11, 845' - T/ 11, 892' (47' - 31FPH) TF- 30 R, WOB 32, MRPM 180, GPM 712, SPP 2650PSI., DIFF 350PSI., MD. WT. 9. 5PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
19:30	20:00	0.50	DRINC	02D	DRILLING - MTR/TURB - DIR/HORZ	No	5	1	11909.00	DRILL 9. 875" CURVE F/ 11, 892' - T/ 11, 909' (17' - 34FPH) WOB 22, RPM 15, MRPM 180, GPM 711, SPM 170, SPP 2550PSI., DIFF. 250PSI., TQ. 13K, MD. WT. 9. 5PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
20:00	21:00	1.00	DRINC	02M	DRILLING - DRILLING - SLIDING	No	5	1	11939.00	SLIDE DRILL 9. 875" CURVE F/ 11, 909' - T/ 11, 939' (30' - 30FPH) TF- 25 R, WOB 45, MRPM 180, GPM 712, SPP 2700PSI., DIFF 350PSI., MD. WT. 9. 4PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
21:00	21:30	0.50	DRINC	02D	DRILLING - MTR/TURB - DIR/HORZ	No	5	1	11956.00	DRILL 9. 875" CURVE F/ 11, 939' - T/ 11, 956' (17' - 34FPH) WOB 24, RPM 15, MRPM 180, GPM 711, SPM 170, SPP 2700PSI., DIFF. 350PSI., TQ. 13K, MD. WT. 9. 4PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
21:30	22:30	1.00	DRINC	02M	DRILLING - DRILLING - SLIDING	No	5	1	11982.00	SLIDE DRILL 9. 875" CURVE F/ 11, 956' - T/ 11, 982' (26' - 26FPH) TF- HIGH SIDE, WOB 45, MRPM 180, GPM 712, SPP 2700PSI., DIFF 350PSI., MD. WT. 9. 4PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
22:30	23:00	0.50	DRINC	02D	DRILLING - MTR/TURB - DIR/HORZ	No	5	1	12003.00	DRILL 9. 875" CURVE F/ 11, 982' - T/ 12, 003' (21' - 42FPH) WOB 24, RPM 15, MRPM 180, GPM 711, SPM 170, SPP 2700PSI., DIFF. 350PSI., TQ. 14K, MD. WT. 9. 4PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
23:00	23:30	0.50	DRINC	02M	DRILLING - DRILLING - SLIDING	No	5	1	12029.00	SLIDE DRILL 9. 875" CURVE F/ 12, 003' - T/ 12, 029' (26' - 52FPH) TF- 10 R, WOB 45, MRPM 180, GPM 712, SPP 2700PSI., DIFF 350PSI., MD. WT. 9. 4PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
23:30	00:00	0.50	DRINC	02D	DRILLING - MTR/TURB - DIR/HORZ	No	5	1	12050.00	DRILL 9. 875" CURVE F/ 12, 029' - T/ 12, 050' (21' - 42FPH) WOB 24, RPM 15, MRPM 180, GPM 711, SPM 170, SPP 2700PSI., DIFF. 350PSI., TQ. 13K, MD. WT. 9. 4PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS

Personnel Hours

Vendor	Vendor Type	Number Of People	Hours On Site	Total Hours
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00
NORAM DRILLING COMPANY	TOOLPUSHER	1	24.00	24.00
NORAM DRILLING COMPANY	RIG CREWS	12	24.00	288.00
AES DRILLING FLUIDS LLC	1- MAN CREW	1	24.00	24.00
PHOENIX DIRECTIONAL DRILLERS	4- MAN CREW	4	24.00	96.00
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00

Rig Information

KB Elevation: 2797.00 ft | KB To GL : 25.00 ft

Rig(s) for today : Noram 27 | Rig Manager : TOBY JOHNSON | Rig Phone : 432-219-0731

Date and Time of Rig Release : | Days From Rig Release : 0.00 | Rig Fax :

Safety

Last BOP Test(F) Date :	3/19/2018	Last BOP Pressure :	1500.000	psi	Last Lot Fit :	0.00	
Last Csg Date :	3/19/2018	Last Csg Pressure :	250.000	psi	Last Spills Reported :		
Last BOP Drill Date :	3/24/2018	Last Test MW :	0.00		Last Accidents :		
Last Fire Drill :		Last Test TVD :	0.00	ft	Last Safety Meeting :	3/26/2018 19:00	
Last Evac Drill :		Last Test Pressure :	0.000	psi	Last Safety Meeting Topic :		

Contacts

Day Sup. :	JONAS HALDEMAN	Phone :	903-571-6771	Superintendent :	SANTOS MOROLES	Phone :	432-559-4901
Night Sup. :	CHRIS KEIS	Phone :		Geologist :		Phone :	
Alt. Phone :				Drill. Eng. :	RICHARD HILL	Phone :	432-818-1726

Attachments

Daily Attachment Folder(s)

Daily Drilling Report P2

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 19 Report Date : 3/26/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Mud Data

Mud Engineer : Benge Mud Type : Brine Polymer Type :

Chk	Time	Depth (ft)	Density (lbs/gal)	FV (s/qt)	YP (lbs/100 ft²)	PV (cP)	WL (cc/30 min)	Cl (ppm)	Electro Static Stability	Oil Ratio	H2O Ratio	HTHP Water Loss(cc/30 min)
1	08:00	11517.	9.40000	26.00	1	1.00	0.0	97000	0.0	0	0	0.0
2	20:00	11909.	9.45000	27.00	2	1.00	0.0	99000	0.0	0	0	0.0

Bit Data

Bit #	Run #	Size (in)	Mfg.	Model	IADC Code	Daily Drilled (ft)	Daily Hours	Daily ROP (ft/hr)	Cum Drilled (ft)	Cum Hrs.	Avg. ROP (ft/hr)	Depth In (ft)	Depth Out (ft)	Max WOB (M Lbs)	PSI Drop (psi)	Nozzle Velocity (ft/s)	HHP (HP)
5	1	9.875	ULTERRA	CF613		758.00	23.50	32.26	930.00	27.50	33.82	11292.00	12050.00	25.000	247.403	171.10	102.7

BHA Data

For Bit # : 5 Mud Motor : Total Made : 758 ft

Total BHA Hours : 199.5 Total Hours : 23.50

BHA # : 05 DC OD : 8.000 in DP OD : 5.000 in BHA Length : 1209.36 ft BHA Weight 0.00 M Lbs

Item	Jts	Length (ft)	OD (in)	ID (in)	Coupling OD (in)	Weight (lbs/ft)	Thread Type	Pin/Box
MUD MOTOR	1	29.88	7.750	0.000	8.650	0.000	6- 5/8REG	Box
NON- MAG COLLAR	1	11.14	8.000	3.250	8.060	0.000	6- 5/8REG	Box
GAP SUB	1	3.56	8.060	0.000	8.060	0.000	6- 5/8REG	Box
NON- MAG COLLAR	1	29.84	8.000	3.310	8.000	0.000	6- 5/8REG	Box
CROSSOVER SUB	1	2.58	7.630	2.880	0.000	0.000	4- 1/2XH	Box
DRILLPIPE	36	1132.36	5.000	4.276	0.000	0.000	4- 1/2IF	Box

Drilling Parameters

Bit #	Run #	Depth (ft)	WOB (M Lbs)	RPM		GPM	Torque		String Weight			Pressure		
				Motor	Rotary		On Bom (ft lbf)	Off Bom (ft lbf)	Pick Up (lbs)	Stack Off (lbs)	Rotate (lbs)	On Bom (psi)	Off Bom (psi)	Diff Press. (psi)
5	1	12050.00	25.000	181	15	711	3000.00	15000.00	340	275	310	2550.0	2300.0	250.0

Pump Data

Bit #	Pump 1					Pump 2					Pump Pressure (psi)	AV DC (ft/min)	AV DP (ft/min)
	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)			
5	CE FB1600	12.000	6.000	85	355.856	CE FB1600	12.000	6.000	85	355.856	2550.00	520	241

Reduced Speed Pumps

Depth(ft)	Pump 1			Pump 2		
	Model	Pressure (psi)	SPM	Model	Pressure (psi)	SPM
0.00	CE FB1600	120.0	30	CE FB1600	140.0	30

Daily Drilling Report P3

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 19 Report Date : 3/26/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Drill Bottom Hole Targets

Bottom Hole Location	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Survey Data

Depth (ft)	Deviation	Azimuth	TVD (ft)	N/S	N/S (ft)	E/W	E/W (ft)	Vertical Section (ft)	Dog Leg
11339.00	23.05	158.4	11330.33	S	-53.34	E	53.26	66.10	8.68
11434.00	28.89	162.0	11415.71	S	-92.49	E	67.21	107.59	6.26
11528.00	34.70	165.6	11495.57	S	-140.05	E	80.89	157.08	6.40
11622.00	42.25	163.9	11569.11	S	-196.41	E	96.34	215.51	7.98
11716.00	48.98	162.2	11634.83	S	-260.61	E	115.96	282.64	7.15
11810.00	51.40	163.4	11695.01	S	-329.59	E	137.27	354.83	2.71
11905.00	56.99	164.7	11750.57	S	-403.66	E	158.37	431.84	5.90

Hook Loads

Up : 340

Down : 275

Rotating : 310

Torque : 0 Amps

Torque : 14000.00 ft lbf

Comments

UL 20 STRIPES 38-47 602H

RIG MOBILIZATION BEGAN - 03/08/2018 @ 00:00 HRS.
SPUD WELL @ 00:00 HRS ON 03/12/2018
(96 HR RIG MOVE, NO DIVERTER)

TOTAL HRS FROM SPUD: 360 HRS (15 DAYS)

NOTIFIED TRRC FOR SPUD @ 11:45 HRS 03/10/2018 (OPERATOR #2 AUDREY)
NOTIFIED TRRC FOR SURFACE CSG & CEMENT W/ TRRC JOB #2 AUDREY @ 1145 HRS 03/10/2018
NOTIFIED TRRC FOR INTERMEDIATE CSG & CMT, JOB # (OPERATOR #4 DIANA) @ 02:07 HRS 03/17/2018, DIANA OPERATOR #4.
NOTIFIED TRRC FOR 2ND INTERMEDIATE CMT, JOB # XXX @ 00:53 HRS, 03/27/2018, DIANA OPERATOR #4

LAST 5" DP INSP. (Red river) CAT- 4 W/ SHEAR WAVE – 03/08/2018.
421 jts kept w/Rig
33 jts sent to fishing tools
128 jts sent to NorAm yard
7 jts. down grade to Energen yd
Sent 16 jts & 1 lift sub to fishing tools

CLEAN/VISUAL INSPECT 742 JTS 4 1/2" DS-42, XX-XX-2018, XXX INSPECTION
742 JTS ACCEPTED BOTH ENDS AS PREMIUM

DAYS SINCE LAST LTA: (XXX DAYS):
CREW SHORTAGES (LAST 24HRS / TOTAL HRS): NO/NO
CREW DOUBLES (LAST 24 HRS / TOTAL HRS): NO/NO

DOWN TIME HRS (LAST 24HRS / TOTAL HRS): 0.0/ 3.5
NON PRODUCTIVE TIME (LAST 24HRS / TOTAL HRS): 0.0/19

OBM LOST TO WELL (LAST 24 HRS / TOTAL BBLS): 00 - BBLS / 00- BBL
OBM LOST: 0- BBLS TO FORMATION

OBM LOST: 0-BBLS TO CUTTINGS

13-3/8" 61# HCK-55 BTC SURFACE SET AT 437'
10-3/4"45.5# HCN-80 BTC INTERMEDIATE SET AT 4962'
7-5/8" 29.7# HCP-110 BTC SECOND INTERMEDIATE SET @ XXX' MD, XXX' TVD

CURVE #1
BHA #5 CONSISTING OF: 9.875" ULTERRA CF613 JETTED WITH 3 x16'S x 3 x 18'S = 1.33 TFA // 7.75" PHOENIX MTR. 2.38° ADJ., (4/5LOBE, 5.3 STG., .253 REV/GAL) // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC // 1- XO SUB // 36-JTS. OF 5"DP // 15JTS. 5" HWDP // TOTAL BHA = 1678.92' // DEPTH IN: 11,120' // DEPTH OUT: XXXX' // FTG DRILLED: XXXX' // TOTAL DRLG HRS: XX // TOTAL MTR. HRS: XX // ROP: XX FPH // REASON PULLED: XXXXXXXX // BIT GRADE = XXXXXXXXXXXX

INTERMEDIATE #2
BHA #4: 9.875" ULTERRA CF716 JETTED WITH 7 x14'S = 1.05 TFA // 7.75" PHOENIX MTR. 1.5° ADJ., (7/8LOBE, 4.0 STG., .166 REV/GAL) // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15JTS. 5" HWDP // TOTAL BHA = 1016.04' // DEPTH IN: 9398' // DEPTH OUT: 11,120' // FTG DRILLED: 1722' // TOTAL DRLG HRS: 53 // TOTAL MTR. HRS: 54.5 // ROP: 32 FPH // REASON PULLED: CHANGE BHA // BIT GRADE = 1-1-CT-S--I-CT-BHA

INTERMEDIATE #2
BHA #3: 9.875" ULTERRA 616M, W/6x16's TFA: 1.1781 // PHOENIX MTR 7.75", 7/8 4.0,1.5° BENT SLICK SLEEVE. 0.166 RPG - // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15 JTS 5" HWDP// TOTAL BHA = 1016.33' // DEPTH IN: 4967' // DEPTH OUT: 9398' // FTG DRILLED: 4431' // TOTAL DRLG HRS: 51 // TOTAL MTR HRS: 52.5 // ROP: 86FPH // REASON PULLED: LOW R.O.P.// BIT GRADE = 4-2-BT-N--I-RO-FR

INTERMEDIATE #1
BHA #2: 12.25" ULTERRA CF616S, W/6x16's TFA: 1.1781 // PHOENIX MTR 7.75", 7/8 4.0,1.5° BENT STAB. 0.166 RPG - // 11.75" NORTRAK STAB // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 11.75 NORTRAK STAB // 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15 JTS 5" HWDP // TOTAL BHA = 1026.98' // DEPTH IN: 450' // DEPTH OUT: 4967' // FTG. DRILLED: 4517' // TOTAL DRLG. HRS.: 59.5 // TOTAL MTR. HRS: 60.5 // AVG. ROP: 81' FPH // REASON PULLED: TD / CSG. POINT // 1-1-CT-N-I-NO-TD

SURFACE #1
BHA #1: 17.5" ULTERRA U616S, W/9x16's TFA: 1.767 // TDI DIRECTIONAL MTR 9-5/8", 5/6 4.0,1.5° BENT SLICK 0.107 RPG - // IBS // MWD EXTREME // UBHO // 8" NMDC //17.25" NM IBS//8" NMDC//FILTER SUB// 8" SHOCK SUB // 12 - 8" DC // 1- XO SUBS //12- JTS 6.5" DC//XO// 15 JTS HWDP// TOTAL BHA = 1305.77 // DEPTH IN: 145' // DEPTH OUT: 450' // FTG. DRILLED: 305' // TOTAL DRLG HRS: 8 // TOTAL MTR. HRS: 11 // ROP: 38.1' FPH // REASON PULLED: CSG POINT // 1/1 BIT GRADE: 1-1-NO-A-I-NO-TD

STARTING RIG FUEL - 3200 GALLONS TRANSFERRED IN .

DIESEL USAGE:
RIG FUEL (DAILY/TOTAL): 1945 / 30,161
MUD DIESEL (DAILY/TOTAL 0 / 0
AUXILIARY EQUIPMENT (DAILY/TOTAL): 84 / 1077 GALS
CERTARUS GAS (DAILY/TOTAL) 1178.93 / 5242.27 GALS

NO LEAKS OR SPILLS REPORTED OR OBSERVED

Solids Removal

Shakers

Shaker #	Bottom	Middle	Top

Other Solids Removal Equipment

Item	Hrs Run	Intake Density (lbs/gal)	Overflow Density (lbs/gal)	Underflow Density (lbs/gal)

Mud Log

Formation :
Background Gas :
Connection Gas :
Flare Length :
Trip Calc :

Well Incident

Report # :
Incident Date :
Report Date :

Daily Drilling Report P1

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 20 Report Date : 3/27/2018

Financials

Daily Cost : $92,588 Cost to Date : $1,774,453

AFE # : PB18100003

AFE : $10,772,650 AFE Cost to Date : $1,774,453

Operations

Event Objective : Noram 27 D&C DB DEV WC A Event Sub Type : Drilling Prod

A.M. Ops : 00:00-05:00 CONTINUE P/U RUN 7-5/8", 29.7#, HCP-110, BTC, NOW HAVE 200 JTS PLUS WFD DV TOOL/PKR P/U:8370' W/RETURNS.

Ops Forecast : RUN/LAND/CIRC/CEMENT 2 STAGE 7-5/8" JOB @ 12,072'.

24hr. Summary : DRILL 9.875" CURVE F/12,050' - 12,082'(32FPH), CIRC SWEEP, POOH 11 STDS, LD DP, PULL WB, RU/RUN 7-5/8", 29.7#, HCP-110, BTC. NOW @ 3504'(84 JTS P/U).

Planning Status :

Elevations

GL 2772.00 ft Reserve Pit Freeboard : 0.00 ft

Progress

Days from Spud : 15 Progress : 32.00 ft MD at Report Time : 12082.00 ft

Rig on Location (days) : 20 Est. TD : 21672.00 ft TVD At Report Time : 11831.00 ft

Event Dates

Spud Date	Spud Time	Suspended Drilling Date	Resume Drilling Date	Total Depth Date	Total Depth Time	Finished Drilling Date	Finished Drilling Time	Rig Released Date	Rig Released Time
3/12/2018	00:00								

Time Breakdown

Start Time : 00:00 Initial Depth : 0.00 ft Drilling Hours : 1.00 Total Drilling Hours : 195.00 Total Hours : 24.00 Time Code :

Drilling % : 4.17 Rotating % : 100.00 Sliding % : 0.00

Start Time	End Time	Hours	Phase	Activity		NPT	Bit #	Run #	Depth (ft)	Remarks
				Time Code	Description					
00:00	01:00	1.00	DRINC	02D	DRILLING - MTR/TURB - DIR/HORZ	No	5	1	12082.00	DRILL 9.875" CURVE F/12,050' - T/12,082' (32' - 32FPH) WOB 24, RPM 15, MRPM 180, GPM 711, SPM 170, SPP 2700PSI., DIFF. 350PSI., TQ. 13K, MD. WT. 9.4PPG., DRLG. THROUGH FLOW LINE W/ 100% RETURNS
01:00	03:00	2.00	CSGIN2	07C	C & C MUD - PRIOR TO TRIP	No	5	1	12082.00	CTCH PUMPING 2 x 40BBLS. 70VISC. SWEEPS - FIRST SWEEP BROUGHT BACK A LOT OF LARGE CUTTINGS, SECOND ONLY MINIMAL FINE CUTTINGS - SPOT 70BBLS. 11.5PPG. KM @ 8500' AND SLUG PIPE WITH 80BBLS. 11.5PPG.
03:00	17:30	14.50	CSGIN2	08D	TRIPPING - CASING / LINER	No	5	1	12082.00	TOH FOR 7.625" CSG. F/12,082' - T/11,120', NO TIGHT SPOTS, MONITOR FILL ON TRIP TANK - L/D 5" DP F/11,120' - T/3560', TIH F/3560' - T/4580', L/D 5" DP F/4580' - T/SURF., L/D DIR. BHA
17:30	18:00	0.50	CSGIN2	37C	WELLHEAD - OTHER	No	5		12082.00	PULL WEAR BUSHING.
18:00	18:30	0.50	CSGIN2	15A	RUN CASING - RU/RD EQUIPMENT	No	5		12082.00	MAKE DRY RUN W/ 7-5/8" LANDING JOINT W/ SWECO.
18:30	19:30	1.00	CSGIN2	15A	RUN CASING - RU/RD EQUIPMENT	No	5		12082.00	R/U SOUTHERN CRT & BUTCH'S CSG TOOLS HELD PJSM.
19:30	00:00	4.50	CSGIN2	15B	RUN CASING - CSG/ LNR/ TIEBACK	No	5		12082.00	M/U 7-5/8" BTC FLOAT SHOE, (1) JT 7-5/8", 29.7#, HCP-110, 7-5/8" BTC FLOAT COLLAR, (2) JTS 7-5/8" BTC, CIRC SAME. NOW P/U & RUN 7-5/8", HCP-110, BTC CASING. NOW HAVE 84TS, 3505' P/U. FULL RETURNS.

Personnel Hours

Vendor	Vendor Type	Number Of People	Hours On Site	Total Hours
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00
NORAM DRILLING COMPANY	TOOLPUSHER	1	24.00	24.00
NORAM DRILLING COMPANY	RIG CREWS	12	24.00	288.00
AES DRILLING FLUIDS LLC	1- MAN CREW	1	24.00	24.00
PHOENIX DIRECTIONAL DRILLERS	4- MAN CREW	4	24.00	96.00
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00

Rig Information

KB Elevation: 2797.00 ft KB To GL : 25.00 ft

Rig(s) for today : Noram 27 Rig Manager : TOBY JOHNSON Rig Phone : 432-219-0731

Date and Time of Rig Release : Days From Rig Release : 0.00 Rig Fax :

Safety

Last BOP Test(F) Date : 3/19/2018 Last BOP Pressure : 1500.000 psi Last Lot Fit : 0.00

Last Csg Date : 3/19/2018 Last Csg Pressure : 250.000 psi Last Spills Reported :

Last BOP Drill Date : 3/24/2018 Last Test MW : 0.00 Last Accidents :

Last Fire Drill : Last Test TVD : 0.00 ft Last Safety Meeting : 3/26/2018 19:00

Last Evac Drill : Last Test Pressure : 0.000 psi Last Safety Meeting Topic :

Contacts

Day Sup. : JONAS HALDEMAN Phone : 903-571-6771 Superintendent : SANTOS MOROLES Phone : 432-559-4901

Daily Drilling Report P2

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 20 Report Date : 3/27/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Mud Data

Mud Engineer : Benge Mud Type : Brine Polymer Type :

Chk	Time	Depth (ft)	Density (lbs/gal)	FV (s/qt)	YP (lbs/100 ft²)	PV (cP)	WL (cc/30 min)	Cl (ppm)	Electro Static Stability	Oil Ratio	H2O Ratio	HTHP Water Loss(cc/30 min)
1	07:00	12082.	9.45000	27.00	1	1.00	0.0	95000	0.0	0	0	0.0
2	20:00	11909.	9.45000	27.00	2	1.00	0.0	97000	0.0	0	0	0.0

Bit Data

Bit #	Run #	Size (in)	Mfg.	Model	IADC Code	Daily Drilled (ft)	Daily Hours	Daily ROP (ft/hr)	Cum Drilled (ft)	Cum Hrs.	Avg. ROP (ft/hr)	Depth In (ft)	Depth Out (ft)	Max WOB (M Lbs)	PSI Drop (psi)	Nozzle Velocity (ft/s)	HHP (HP)
5	1	9.875	ULTERRA	CF613		32.00	1.00	32.00	962.00	28.50	33.75	11292.00	12082.00	25.000	247.403	171.10	102.7

BHA Data

For Bit # : 5 Mud Motor : Total Made : 790 ft

Total BHA Hours : 205.5 Total Hours : 1.00

BHA # : 05 DC OD : 0.000 in DP OD : 0.000 in BHA Length : 1209.36 ft BHA Weight 0.00 M Lbs

Item	Jts	Length (ft)	OD (in)	ID (in)	Coupling OD (in)	Weight (lbs/ft)	Thread Type	Pin/Box
MUD MOTOR	1	29.88	7.750	0.000	8.650	0.000	6- 5/8REG	Box
NON- MAG COLLAR	1	11.14	8.000	3.250	8.060	0.000	6- 5/8REG	Box
GAP SUB	1	3.56	8.060	0.000	8.060	0.000	6- 5/8REG	Box
NON- MAG COLLAR	1	29.84	8.000	3.310	8.000	0.000	6- 5/8REG	Box
CROSSOVER SUB	1	2.58	7.630	2.880	0.000	0.000	4- 1/2XH	Box
DRILLPIPE	36	1132.36	5.000	4.276	0.000	0.000	4- 1/2IF	Box

Drilling Parameters

Bit #	Run #	Depth (ft)	WOB (M Lbs)	RPM		GPM	Torque		String Weight			Pressure		
				Motor	Rotary		On Bom (ft lbf)	Off Bom (ft lbf)	Pick Up (lbs)	Stack Off (lbs)	Rotate (lbs)	On Bom (psi)	Off Bom (psi)	Diff Press. (psi)
5	1	12082.00	25.000	181	15	711	3000.00	15000.00	340	275	310	2550.0	2300.0	250.0

Pump Data

Bit #	Pump 1					Pump 2					Pump Pressure (psi)	AV DC (ft/min)	AV DP (ft/min)
	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)			
5	CE FB1600	12.000	6.000	85	355.856	CE FB1600	12.000	6.000	85	355.856	2550.00	0	0

Reduced Speed Pumps

Depth(ft)	Pump 1			Pump 2		
	Model	Pressure (psi)	SPM	Model	Pressure (psi)	SPM
0.00	CE FB1600	120.0	30	CE FB1600	140.0	30

Daily Drilling Report P3

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 20 Report Date : 3/27/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Drill Bottom Hole Targets

Bottom Hole Location	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Survey Data

Depth (ft)	Deviation	Azimuth	TVD (ft)	N/S	N/S (ft)	E/W	E/W (ft)	Vertical Section (ft)	Dog Leg

Hook Loads

Up :	310000	
Down :	275000	
Rotating :	308000	
Torque :	0	Amps
Torque :	14000.00	ft lbf

Comments

UL 20 STRIPES 38-47 602H

RIG MOBILIZATION BEGAN - 03/08/2018 @ 00:00 HRS.
SPUD WELL @ 00:00 HRS ON 03/12/2018
(96 HR RIG MOVE, NO DIVERTER)

TOTAL HRS FROM SPUD: 384 HRS (16 DAYS)

NOTIFIED TRRC FOR SPUD @ 11:45 HRS 03/10/2018 (OPERATOR #2 AUDREY)
NOTIFIED TRRC FOR SURFACE CSG & CEMENT W/ TRRC JOB #2 AUDREY @ 1145 HRS 03/10/2018
NOTIFIED TRRC FOR INTERMEDIATE CSG & CMT, JOB # (OPERATOR #4 DIANA) @ 02:07 HRS 03/17/2018, DIANA OPERATOR #4.
NOTIFIED TRRC FOR 2ND INTERMEDIATE CMT, JOB # XXX @ 00:53 HRS, 03/27/2018, DIANA OPERATOR #4

LAST 5" DP INSP. (Red river) CAT- 4 W/ SHEAR WAVE – 03/08/2018.
421 jts kept w/Rig
33 jts sent to fishing tools
128 jts sent to NorAm yard
7 jts. down grade to Energen yd
Sent 16 jts & 1 lift sub to fishing tools

CLEAN/VISUAL INSPECT 742 JTS 4 1/2" DS-42, XX-XX-2018, XXX INSPECTION
742 JTS ACCEPTED BOTH ENDS AS PREMIUM

DAYS SINCE LAST LTA: (XXX DAYS):
CREW SHORTAGES (LAST 24HRS / TOTAL HRS): NO/NO
CREW DOUBLES (LAST 24 HRS / TOTAL HRS): NO/NO

DOWN TIME HRS (LAST 24HRS / TOTAL HRS): 0.0/ 3.5
NON PRODUCTIVE TIME (LAST 24HRS / TOTAL HRS): 0.0/19

OBM LOST TO WELL (LAST 24 HRS / TOTAL BBLS): 00 - BBLS / 00- BBL
OBM LOST: 0- BBLS TO FORMATION

OBM LOST: 0-BBLS TO CUTTINGS

13-3/8" 61# HCK-55 BTC SURFACE SET AT 437'
10-3/4"45.5# HCN-80 BTC INTERMEDIATE SET AT 4962'
7-5/8" 29.7# HCP-110 BTC SECOND INTERMEDIATE SET @ XXX' MD, XXX' TVD

CURVE #1
BHA #5 CONSISTING OF: 9.875" ULTERRA CF613 JETTED WITH 3 x16'S x 3 x 18'S = 1.33 TFA // 7.75" PHOENIX MTR. 2.38° ADJ., (4/5LOBE, 5.3 STG., .253 REV/GAL) // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC // 1- XO SUB // 36-JTS. OF 5"DP // 15JTS. 5" HWDP // TOTAL BHA = 1678.92' // DEPTH IN: 11,120' // DEPTH OUT: 12082" // FTG DRILLED: 962' // TOTAL DRLG HRS: 28.5 // TOTAL MTR. HRS: 28.5 // ROP: 33.7 FPH // REASON PULLED: CSG POINT // BIT GRADE = 2-2-IG

INTERMEDIATE #2
BHA #4: 9.875" ULTERRA CF716 JETTED WITH 7 x14'S = 1.05 TFA // 7.75" PHOENIX MTR. 1.5° ADJ., (7/8LOBE, 4.0 STG., .166 REV/GAL) // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15JTS. 5" HWDP // TOTAL BHA = 1016.04' // DEPTH IN: 9398' // DEPTH OUT: 11,120' // FTG DRILLED: 1722' // TOTAL DRLG HRS: 53 // TOTAL MTR. HRS: 54.5 // ROP: 32 FPH // REASON PULLED: CHANGE BHA // BIT GRADE = 1-1-CT-S--I-CT-BHA

INTERMEDIATE #2
BHA #3: 9.875" ULTERRA 616M, W/6x16's TFA: 1.1781 // PHOENIX MTR 7.75", 7/8 4.0,1.5° BENT SLICK SLEEVE. 0.166 RPG - // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15 JTS 5" HWDP// TOTAL BHA = 1016.33' // DEPTH IN: 4967' // DEPTH OUT: 9398' // FTG DRILLED: 4431' // TOTAL DRLG HRS: 51 // TOTAL MTR HRS: 52.5 // ROP: 86FPH // REASON PULLED: LOW R.O.P.// BIT GRADE = 4-2-BT-N--I-RO-PR

INTERMEDIATE #1
BHA #2: 12.25" ULTERRA CF616S, W/6x16's TFA: 1.1781 // PHOENIX MTR 7.75", 7/8 4.0,1.5° BENT STAB. 0.166 RPG - // 11.75" NORTRAK STAB // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 11.75 NORTRAK STAB // 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15 JTS 5" HWDP // TOTAL BHA = 1026.98' // DEPTH IN: 450' // DEPTH OUT: 4967' // FTG. DRILLED: 4517' // TOTAL DRLG. HRS.: 59.5 // TOTAL MTR. HRS: 60.5 // AVG. ROP: 81' FPH // REASON PULLED: TD / CSG. POINT // 1-1-CT-N-I-NO-TD

SURFACE #1
BHA #1: 17.5" ULTERRA U616S, W/9x16's TFA: 1.767 // TDI DIRECTIONAL MTR 9-5/8", 5/6 4.0,1.5° BENT SLICK 0.107 RPG - // IBS // MWD EXTREME // UBHO // 8" NMDC //17.25" NM IBS//8" NMDC//FILTER SUB// 8" SHOCK SUB // 12 - 8" DC // 1- XO SUBS //12- JTS 6.5" DC//XO// 15 JTS HWDP// TOTAL BHA = 1305.77 // DEPTH IN: 145' // DEPTH OUT: 450' // FTG. DRILLED: 305' // TOTAL DRLG HRS: 8 // TOTAL MTR. HRS: 11 // ROP: 38.1' FPH // REASON PULLED: CSG POINT // 1/1 BIT GRADE: 1-1-NO-A-I-NO-TD

STARTING RIG FUEL - 3200 GALLONS TRANSFERRED IN .

DIESEL USAGE:
RIG FUEL (DAILY/TOTAL): 883/31,044 GALS
MUD DIESEL (DAILY/TOTAL 0/ 0 GALS
AUXILIARY EQUIPMENT (DAILY/TOTAL): 0/ 1077 GALS
CERTARUS GAS (DAILY/TOTAL) 1177.13/6419.4

NO LEAKS OR SPILLS REPORTED OR OBSERVED

Solids Removal

Shakers

Shaker #	Bottom	Middle	Top

Other Solids Removal Equipment

Item	Hrs Run	Intake Density (lbs/gal)	Overflow Density (lbs/gal)	Underflow Density (lbs/gal)

Mud Log

Formation :
Background Gas : Connection Gas : Flare Length :
Trip Calc :

Well Incident

Report # : Incident Date : Report Date :
Problem Name :

Daily Drilling Report P1

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 21 Report Date : 3/28/2018

Financials

Daily Cost : $58,269 Cost to Date : $1,832,722

AFE # : PB18100003

AFE : $10,772,650 AFE Cost to Date : $1,832,722

Operations

Event Objective : Noram 27 D&C DB DEV WC A Event Sub Type : Drilling Prod

A.M. Ops : 00:00-05:00 FINISH DISPLACE 1ST STAGE CMT JOB, BUMP PLUG @ 0120 HRS, SET PKR W/2750PSI, DROP DV BOMB;LET FALL 25 MIN WHILE TESTING PKR TO 500PSI;GOOD TEST, SHIFT DV TOOL W/780PSI, CIRC BTMS UP;3200 STROKES, HAD 190 BBLS CEMENT BACK. M/P 2ND STAGE CEMENT JOB. BUMP PLUG @ 0430 HRS W/2850PSI, CHECK FLOATS;OK. HAD 30 BBLS CMT BACK, RD CMTRS.

Ops Forecast : INSTALL/TEST SWECO WH PACKOFF TO 3500PSI, CLEAN MUD TANKS, TEST BOPS, P/U 6-3/4 BIT + 4-3/4" LATERAL TOOLS, WILL P/U 4-1/2" DS42 DP AND TIH TO DRILLOUT DV TOOL.

24hr. Summary : FINISH RUNNING 7-5/8" CSG TO 11,072';, CIRC 1-1/2 TIMES CSG CAP, W.O CEMENTERS 7-1/2 HRS, M/P 1ST STAGE CMT JOB, START DISPLACE SAME.

Planning Status :

Elevations

GL 2772.00 ft Reserve Pit Freeboard : 0.00 ft

Progress

Days from Spud : 16 Progress : 0.00 ft MD at Report Time : 12082.00 ft

Rig on Location (days) : 21 Est. TD : 21672.00 ft TVD At Report Time : 11831.00 ft

Event Dates

Spud Date	Spud Time	Suspended Drilling Date	Resume Drilling Date	Total Depth Date	Total Depth Time	Finished Drilling Date	Finished Drilling Time	Rig Released Date	Rig Released Time
3/12/2018	00:00								

Time Breakdown

Start Time : 00:00 Initial Depth : 0.00 ft Drilling Hours : 0.00 Total Drilling Hours : 194.00 Total Hours : 24.00 Time Code :

Drilling % : 0.00 Rotating % : 0.00 Sliding % : 0.00

Start Time	End Time	Hours	Phase	Activity		NPT	Bit #	Run #	Depth (ft)	Remarks
				Time Code	Description					
00:00	06:00	6.00	CSGIN2	15B	RUN CASING - CSG/ LNR/ TIEBACK	No			12082.00	P/U & RUN 7 - 5/8", 29.7#, HCP - 110 BTC AS FOLLOWS: 7- 5/8" FLOAT SHOE: 1.50 (1) JT 7 - 5/8", 29.7#, HCP - 110, BTC: 41.70 7- 5/8" FLOAT COLLAR: 1.33 (172) JTS 7 - 5/8", 29.7#, HCP - 110, BTC: 7171.53 WFD 7- 5/8" DV TOOL/ PKR: 27.37 (47) JTS 7 - 5/8", 29.7#, HCP - 110, BTC: 1959.57
06:00	09:30	3.50	CSGIN2	15B	RUN CASING - CSG/ LNR/ TIEBACK	No			12082.00	P/U & RUN 7 - 5/8", 29.7#, HCP - 100 BTC AS FOLLOWS: 7- 5/8" FLOAT SHOE: 1.50 (1) JT 7 - 5/8", 29.7#, HCP - 110, BTC: 41.70 7- 5/8" FLOAT COLLAR: 1.33 (172) JTS 7 - 5/8", 29.7#, HCP - 110, BTC: 7171.53 WFD 7- 5/8" DV TOOL/ PKR: 27.37 (115) JTS 7 - 5/8", 29.7#, HCP - 110, BTC: 4795.46 HANGAR 5.30 LANDING JOINT 35.02 TOTAL CSG RUN: 12,079.21' LANDED/ SET @ 12,072' DV TOOL @ 4828' HAD ONLY MINIMAL DISPL. RETURNS F/ 5500' - T/ BTTM., NO TIGHT SPOTS
09:30	10:00	0.50	CSGIN2	15A	RUN CASING - RU/ RD EQUIPMENT	No			12082.00	RIG DOWN CRT AND CSG. CREW, INSTALL SWEDGE, LOW TORQ. VALVE, AND 2" HOSE
10:00	11:30	1.50	CSGIN2	07D	C & C MUD - DOWN CASING	No			12082.00	CIRC. 1.5 x CSG. CAP @ 7BPM - BTTMS. UP HAD 5 - 10' FLARE WITH 0PSI. CP - LOST 27BBLS. WHILE CIRCULATING KM OUT OF WELL
11:30	19:00	7.50	CSGIN2	28D	WAITING - 3RD - PTY EQUIPMENT	Yes			12082.00	CIRCULATE @ 3.4BPM WHILE WAITING ON C& J SERVICES.
19:00	21:00	2.00	CSGIN2	16A	CEMENTING - RU/ RD EQUIPMENT	Yes			12082.00	R/ U CMT HEAD/ LINES, FLUSH KILLINE/ CHOKELINE. HELD PJSM W/ C& J SERVICES AND WFD.
21:00	00:00	3.00	CSGIN2	16B	CEMENTING - PRIMARY	No			12082.00	TEST LINES TO 5000PSI. M/ P CEMENT JOB AS FOLLOWS: 1ST STAGE: 20 BBLS FW 456 BBLS(860 SXS) LEAD, 50/ 50 POZ, YIELD: 2.98, 11.3PPG 70 BBLS(330SXS) TAIL, CLASS H, 15.6PPG, YIELD: 1.19 DROP PLUG START DISPLACE @ 8BPM @ 0000 HOURS. GOOD RETURNS

Personnel Hours

Vendor	Vendor Type	Number Of People	Hours On Site	Total Hours
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00
NORAM DRILLING COMPANY	TOOLPUSHER	1	24.00	24.00
NORAM DRILLING COMPANY	RIG CREWS	12	24.00	288.00
AES DRILLING FLUIDS LLC	1- MAN CREW	1	24.00	24.00
PHOENIX DIRECTIONAL DRILLERS	4- MAN CREW	4	24.00	96.00
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00

Rig Information

KB Elevation:	2797.00 ft	KB To GL :	25.00 ft		
Rig(s) for today :	Noram 27	Rig Manager :	TOBY JOHNSON	Rig Phone :	432-219-0731
Date and Time of Rig Release :		Days From Rig Release :	0.00	Rig Fax :	

Safety

Last BOP Test(F) Date :	3/19/2018	Last BOP Pressure :	1500.000 psi	Last Lot Fit :	0.00
Last Csg Date :	3/19/2018	Last Csg Pressure :	250.000 psi	Last Spills Reported :	
Last BOP Drill Date :	3/24/2018	Last Test MW :	0.00	Last Accidents :	
Last Fire Drill :		Last Test TVD :	0.00 ft	Last Safety Meeting :	3/28/2018 19:00
Last Evac Drill :		Last Test Pressure :	0.000 psi	Last Safety Meeting Topic :	RUN CSG. / CMT.

Contacts

Day Sup. :	JONAS HALDEMAN	Phone :	903-571-6771	Superintendent :	SANTOS MOROLES	Phone :	432-559-4901
Night Sup. :		Phone :		Geologist :		Phone :	
Alt. Phone :				Drill. Eng. :	RICHARD HILL	Phone :	432-818-1726

Attachments

Daily Attachment Folder(s)

Daily Drilling Report P2

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 21 Report Date : 3/28/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Mud Data

Mud Engineer : BOBBY ODOM Mud Type : Water Base Mud Polymer Type :

Chk	Time	Depth (ft)	Density (lbs/gal)	FV (s/qt)	YP (lbs/100 ft²)	PV (cP)	WL (cc/30 min)	Cl (ppm)	Electro Static Stability	Oil Ratio	H2O Ratio	HTHP Water Loss(cc/30 min)
1	20:00	12082.	9.40000	27.00	2	1.00	0.0	94000	0.0	0	0	0.0

Bit Data

Bit #	Run #	Size (in)	Mfg.	Model	IADC Code	Daily Drilled (ft)	Daily Hours	Daily ROP (ft/hr)	Cum Drilled (ft)	Cum Hrs.	Avg. ROP (ft/hr)	Depth In (ft)	Depth Out (ft)	Max WOB (M Lbs)	PSI Drop (psi)	Nozzle Velocity (ft/s)	HHP (HP)

BHA Data

For Bit # : Mud Motor : Total Made : 0 ft

Total BHA Hours : 204.0 Total Hours : 0.00

BHA # : DC OD : 0.000 in DP OD : 0.000 in BHA Length : 0.00 ft BHA Weight 0.00 M Lbs

Item	Jts	Length (ft)	OD (in)	ID (in)	Coupling OD (in)	Weight (lbs/ft)	Thread Type	Pin/Box

Drilling Parameters

Bit #	Run #	Depth (ft)	WOB (M Lbs)	RPM		GPM	Torque		String Weight			Pressure		
				Motor	Rotary		On Bom (ft lbf)	Off Bom (ft lbf)	Pick Up (lbs)	Stack Off (lbs)	Rotate (lbs)	On Bom (psi)	Off Bom (psi)	Diff Press. (psi)

Pump Data

Bit #	Pump 1					Pump 2					Pump Pressure (psi)	AV DC (ft/min)	AV DP (ft/min)
	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)			

Reduced Speed Pumps

Depth(ft)	Pump 1			Pump 2		
	Model	Pressure (psi)	SPM	Model	Pressure (psi)	SPM
0.00	CE FB1600	120.0	30	CE FB1600	140.0	30

Daily Drilling Report P3

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 21 Report Date : 3/28/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Drill Bottom Hole Targets

Bottom Hole Location	API / License #

Survey Data

Depth (ft)	Deviation	Azimuth	TVD (ft)	N/S	N/S (ft)	E/W	E/W (ft)	Vertical Section (ft)	Dog Leg

Hook Loads

Up :	0	
Down :	0	
Rotating :	0	
Torque :	0	Amps
Torque :	0.00	ft lbf

Comments

UL 20 STRIPES 38-47 602H

RIG MOBILIZATION BEGAN - 03/08/2018 @ 00:00 HRS.
SPUD WELL @ 00:00 HRS ON 03/12/2018
(96 HR RIG MOVE, NO DIVERTER)

TOTAL HRS FROM SPUD: 408 HRS (17 DAYS)

NOTIFIED TRRC FOR SPUD @ 11:45 HRS 03/10/2018 (OPERATOR #2 AUDREY)
NOTIFIED TRRC FOR SURFACE CSG & CEMENT W/ TRRC JOB #2 AUDREY @ 1145 HRS 03/10/2018
NOTIFIED TRRC FOR INTERMEDIATE CSG & CMT, JOB # (OPERATOR #4 DIANA) @ 02:07 HRS 03/17/2018, DIANA OPERATOR #4.
NOTIFIED TRRC FOR 2ND INTERMEDIATE CMT, JOB # XXX @ 00:53 HRS, 03/27/2018, DIANA OPERATOR #4

LAST 5" DP INSP. (Red river) CAT- 4 W/ SHEAR WAVE – 03/08/2018.
421 jts kept w/Rig
33 jts sent to fishing tools
128 jts sent to NorAm yard
7 jts. down grade to Energen yd
Sent 16 jts & 1 lift sub to fishing tools

CLEAN/VISUAL INSPECT 742 JTS 4 1/2" DS-42, XX-XX-2018, XXX INSPECTION
742 JTS ACCEPTED BOTH ENDS AS PREMIUM

DAYS SINCE LAST LTA: (XXX DAYS):
CREW SHORTAGES (LAST 24HRS / TOTAL HRS): NO/NO
CREW DOUBLES (LAST 24 HRS / TOTAL HRS): NO/NO

DOWN TIME HRS (LAST 24HRS / TOTAL HRS): 0.0/ 3.5
NON PRODUCTIVE TIME (LAST 24HRS / TOTAL HRS): 0.0/19

OBM LOST TO WELL (LAST 24 HRS / TOTAL BBLS): 00 - BBLS / 00- BBL
OBM LOST: 0- BBLS TO FORMATION

OBM LOST: 0-BBLS TO CUTTINGS

13-3/8" 61# HCK-55 BTC SURFACE SET AT 437'
10-3/4"45.5# HCN-80 BTC INTERMEDIATE SET AT 4962'
7-5/8" 29.7# HCP-110 BTC SECOND INTERMEDIATE SET @ 12,072' MD, 11,831' TVD

CURVE #1
BHA #5 CONSISTING OF: 9.875" ULTERRA CF613 JETTED WITH 3 x16'S x 3 x 18'S = 1.33 TFA // 7.75" PHOENIX MTR. 2.38° ADJ., (4/5LOBE, 5.3 STG., .253 REV/GAL) // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC // 1- XO SUB // 36-JTS. OF 5"DP // 15JTS. 5" HWDP // TOTAL BHA = 1678.92' // DEPTH IN: 11,120' // DEPTH OUT: 12082" // FTG DRILLED: 962' // TOTAL DRLG HRS: 28.5 // TOTAL MTR. HRS: 28.5 // ROP: 33.7 FPH // REASON PULLED: CSG POINT // BIT GRADE = 2-2-IG

INTERMEDIATE #2
BHA #4: 9.875" ULTERRA CF716 JETTED WITH 7 x14'S = 1.05 TFA // 7.75" PHOENIX MTR. 1.5° ADJ., (7/8LOBE, 4.0 STG., .166 REV/GAL) // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15JTS. 5" HWDP // TOTAL BHA = 1016.04' // DEPTH IN: 9398' // DEPTH OUT: 11,120' // FTG DRILLED: 1722' // TOTAL DRLG HRS: 53 // TOTAL MTR. HRS: 54.5 // ROP: 32 FPH // REASON PULLED: CHANGE BHA // BIT GRADE = 1-1-CT-S--I-CT-BHA

INTERMEDIATE #2
BHA #3: 9.875" ULTERRA 616M, W/6x16's TFA: 1.1781 // PHOENIX MTR 7.75", 7/8 4.0,1.5° BENT SLICK SLEEVE. 0.166 RPG - // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15 JTS 5" HWDP// TOTAL BHA = 1016.33' // DEPTH IN: 4967' // DEPTH OUT: 9398' // FTG DRILLED: 4431' // TOTAL DRLG HRS: 51 // TOTAL MTR HRS: 52.5 // ROP: 86FPH // REASON PULLED: LOW R.O.P.// BIT GRADE = 4-2-BT-N--I-RO-PR

INTERMEDIATE #1
BHA #2: 12.25" ULTERRA CF616S, W/6x16's TFA: 1.1781 // PHOENIX MTR 7.75", 7/8 4.0,1.5° BENT STAB. 0.166 RPG - // 11.75" NORTRAK STAB // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 11.75 NORTRAK STAB // 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15 JTS 5" HWDP // TOTAL BHA = 1026.98' // DEPTH IN: 450' // DEPTH OUT: 4967' // FTG. DRILLED: 4517' // TOTAL DRLG. HRS.: 59.5 // TOTAL MTR. HRS: 60.5 // AVG. ROP: 81' FPH // REASON PULLED: TD / CSG. POINT // 1-1-CT-N-I-NO-TD

SURFACE #1
BHA #1: 17.5" ULTERRA U616S, W/9x16's TFA: 1.767 // TDI DIRECTIONAL MTR 9-5/8", 5/6 4.0,1.5° BENT SLICK 0.107 RPG - // IBS // MWD EXTREME // UBHO // 8" NMDC //17.25" NM IBS//8" NMDC//FILTER SUB// 8" SHOCK SUB // 12 - 8" DC // 1- XO SUBS //12- JTS 6.5" DC//XO// 15 JTS HWDP// TOTAL BHA = 1305.77 // DEPTH IN: 145' // DEPTH OUT: 450' // FTG. DRILLED: 305' // TOTAL DRLG HRS: 8 // TOTAL MTR. HRS: 11 // ROP: 38.1' FPH // REASON PULLED: CSG POINT // 1/1 BIT GRADE: 1-1-NO-A-I-NO-TD

STARTING RIG FUEL - 3200 GALLONS TRANSFERRED IN .

DIESEL USAGE:
RIG FUEL (DAILY/TOTAL): 929/31,973 GALS
MUD DIESEL (DAILY/TOTAL 0/ 8250 GALS
AUXILIARY EQUIPMENT (DAILY/TOTAL): 0/ 1077 GALS
CERTARUS GAS (DAILY/TOTAL) 0/6419.4

NO LEAKS OR SPILLS REPORTED OR OBSERVED

Solids Removal

Shakers

Shaker #	Bottom	Middle	Top

Other Solids Removal Equipment

Item	Hrs Run	Intake Density (lbs/gal)	Overflow Density (lbs/gal)	Underflow Density (lbs/gal)

Mud Log

Formation :
Background Gas : Connection Gas : Flare Length :
Trip Calc :

Well Incident

Report # : Incident Date : Report Date :
Problem Name :

Daily Drilling Report P1

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 22 Report Date : 3/29/2018

Financials

Daily Cost : $522,053 Cost to Date : $2,353,244

AFE # : PB18100003

AFE : $10,772,650 AFE Cost to Date : $2,353,244

Operations

Event Objective : Noram 27 D&C DB DEV WC A Event Sub Type : Drilling Prod

A.M. Ops : 0000 - 0500 HRS: TEST TOOL BEFORE AGITATOR, 95SPM, 750PSI, AFTER AGITATOR, 95SPM, 1190PSI, TIH TO 4750', C/O GRABBER DIE BLOCKS/SAVER SUB, CUT DRILLINE.

Ops Forecast : CUT DRILLINE, DRILLOUT DV TOOL @ 4828', TIH TO 12,027(FC), TEST CSG TO 1500PSI;30MIN, DISPLACE TO 12.5PPG OBM, DRILLOUT FLOAT EQUIP/CEMENT TO 12,072' + 10' FORM. TEST SHOE TO 14.5PPG EMW. DRILL/LAND CURVE.

24hr. Summary : FNSH DISPLACE 1ST STAGE CMT JOB, SET PKR, TEST SAME, CHECK FLOATS, CIRC BTMS UP, M/P & DISPLACE 2ND STAGE CMT JOB, BUMP PLUG @ 0430 HRS, RD CEMENTERS, LD 7-5/8" LJ, INSTALL SWECO PACKOFF, TEST SAME TO 3500PSI, TEST BOPS, INSTALL WB, C/O SAVER SUB, P/U & MU 6-3/4" BIT /LATERAL DIRECTIONAL TOOLS, P/U 90 JTS 4-1/2" DS42 DP.

Planning Status :

Elevations

GL 2772.00 ft Reserve Pit Freeboard : 0.00 ft

Progress

Days from Spud : 17 Progress : 0.00 ft MD at Report Time : 12082.00 ft

Rig on Location (days) : 22 Est. TD : 21672.00 ft TVD At Report Time : 11831.00 ft

Event Dates

Spud Date	Spud Time	Suspended Drilling Date	Resume Drilling Date	Total Depth Date	Total Depth Time	Finished Drilling Date	Finished Drilling Time	Rig Released Date	Rig Released Time
3/12/2018	00:00								

Time Breakdown

Start Time : 00:00 Initial Depth : 0.00 ft Drilling Hours : 0.00 Total Drilling Hours : 194.00 Total Hours : 24.00 Time Code :

Drilling % : 0.00 Rotating % : 0.00 Sliding % : 0.00

Start Time	End Time	Hours	Phase	Activity		NPT	Bit #	Run #	Depth (ft)	Remarks
				Time Code	Description					
00:00	01:30	1.50	CSGIN2	16B	CEMENTING - PRIMARY	No			12082.00	TEST LINES TO 5000PSI. M/ P CEMENT JOB AS FOLLOWS: 1ST STAGE: 20 BBLS FW 456 BBLS(860 SXS) LEAD, 50/ 50 POZ, YIELD: 2. 98, 11. 3PPG 70 BBLS(330SXS) TAIL, CLASS H, 15. 6PPG, YIELD: 1. 19 DROP PLUG DISPLACE @ 8 - 3. 5BPM W/ RIG PUMP 20 BBLS SUGAR WATER 290 BBLS 9. 4PPG CUT BRINE 40 BBLS SUGAR WATER 180 BBLS 9. 4PPG CUT BRINE 22 BBLS SUGAR WATER BUMP PLUG @ 0120 HRS W/ 2200 PSI, 600 PSI OVER FINAL PP. HAD GOOD PSI LIFT UNTIL CMT(CALC) @ SHOE DROPPED F/ 810PSI - 700PSI F/ 75 BBLS THEN GOOD PSI LIFT UNTIL BUMP PLUG. SPACER TO SURFACE/ NO CEMENT TO SURFACE. GOOD RETURNS
01:30	02:00	0.50	CSGIN2	16B	CEMENTING - PRIMARY	No			12082.00	SET PKR W/ 2750PSI, CHECK FLOATS; OK, DROP DV BOMB, LET FALL 25 MIN, TEST PKR DOWN BS W/ 500PSI; GOOD TEST
02:00	03:00	1.00	CSGIN2	16B	CEMENTING - PRIMARY	No			12082.00	SHIFT DV TOOL OPEN W/ 780PSI, CIRC BTMS UP W/ 80SPM, 860PSI. HAD 190 BBLS CEMENT BACK.
03:00	04:30	1.50	CSGIN2	16B	CEMENTING - PRIMARY	No			12082.00	M/ P CEMENT JOB AS FOLLOWS: 2ND STAGE: 20 BBLS FW 208 BBLS(400 SXS) LEAD, 50/ 50 POZ, YIELD: 2. 92, 11. 3PPG 25 BBLS(105 SXS) TAIL, CLASS H, 14. 8PPG, YIELD: 1. 33 DROP PLUG DISPLACE @ 8 - 5BPM W/ RIG PUMP 20 BBLS SUGAR WATER 180 BBLS 9. 4PPG CUT BRINE 22 BBLS SUGAR WATER BUMP PLUG @ 0430 HRS W/ 2850 PSI, 1900 PSI OVER FINAL PP. CHECK FLOATS; OK HAD FULL RETURNS/ GOOD PSI LIFT. 30 BBLS CEMENT TO SURFACE.
04:30	05:00	0.50	CSGIN2	16A	CEMENTING - RU/RD EQUIPMENT	No			12082.00	R/ D CEMENT HEAD/ LINES. START CLEANING MUD TANKS.
05:00	05:30	0.50	CSGIN2	16A	CEMENTING - RU/RD EQUIPMENT	No			12082.00	BACK OUT 7- 5/ 8" LANDING JT, L/ D SAME.

05:30	07:00	1.50	CSGIN2	37A	WELLHEAD - WELLHEAD INSTALL	No			12082.00	P/ U SWECO 7 - 5/ 8" PACKOFF, INSTALL SAME ON JT OF 5" DP, TEST TO 3500PSI(50% OF 7 - 5/ 8", 29. 7#, HCP - 110 CSG COLLAPSE); GOOD TEST.
07:00	15:00	8.00	CSGIN2	22A	TEST BOPE - TEST BOPE	No			12082.00	R/ U MONAHANS. TEST ALL RAMS/ VALVES/ CHOKES 250LO/ 8500HI TEST HYDRIL 250LO/ 3500HI TEST FLOOR VALVES AND BACK TO PUMPS 250LO/ 6200HI. *** HAD TROUBLE GETTING TEST PLUG TO SEAL IN WELLHEAD - HAD TO CALL OUT ANOTHER TEST PLUG FROM MONAHANS. SECOND PLUG SEALED WITH NO ISSUES. *** BEGAN CHANGING SAVER SUB WHILE WAITING ON TEST PLUG
15:00	17:00	2.00	CSGIN2	08A	TRIPPING - BIT/ BHA	No			12082.00	CHANGE OUT SAVER SUB
17:00	18:00	1.00	CSGIN2	21B	NU / ND BOPE - RUN/ PULL BOPE	No			12082.00	INSTALL WEAR BUSHING AND L/ O BHA
18:00	20:00	2.00	CSGIN2	08A	TRIPPING - BIT/ BHA	No	4		12082.00	P/ U, M/ U, SCRIBE, AND TEST BHA # 6 CONSISTING OF: 6. 75" ULTERRA U513 JETTED WITH 7 x 12' S = . 7731 TFA // 5" PHOENIX 1. 83 FBH MTR. (6/ 7LOBE, 6. 4 STG., . 80 RPG)(MOTOR BORED FOR FLOAT) // FLOAT SUB // 4. 75" NMPC // 5" MWD VELOCITY // 4. 5" SLICK NMDC // XO SUB // 90 - JTS. OF 4. 5" DP // XO SUB // SS/ AGITATOR // XO SUB // TOTAL BHA = 2954. 95'. MWD O/ S SCRIBE: DAO: 7. 6DEG
20:00	00:00	4.00	CSGIN2	08A	TRIPPING - BIT/ BHA	No	4		12082.00	P/ U (90) JTS 4 - 1/ 2", 16. 6#, S135, DS42 OFF RACKS TO 2925', RABBIT SAME. NOW TEST TOOLS.

Personnel Hours

Vendor	Vendor Type	Number Of People	Hours On Site	Total Hours
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00
NORAM DRILLING COMPANY	TOOLPUSHER	1	24.00	24.00
NORAM DRILLING COMPANY	RIG CREWS	12	24.00	288.00
AES DRILLING FLUIDS LLC	1- MAN CREW	1	24.00	24.00
PHOENIX DIRECTIONAL DRILLERS	4- MAN CREW	4	24.00	96.00
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00

Rig Information

KB Elevation:	2797.00 ft	KB To GL :	25.00 ft		
Rig(s) for today :	Noram 27	Rig Manager :	TOBY JOHNSON	Rig Phone :	432-219-0731
Date and Time of Rig Release :		Days From Rig Release :	0.00	Rig Fax :	

Safety

Last BOP Test(F) Date :	3/29/2018	Last BOP Pressure :	8500.000 psi	Last Lot Fit :	0.00
Last Csg Date :	3/19/2018	Last Csg Pressure :	1500.000 psi	Last Spills Reported :	
Last BOP Drill Date :	3/24/2018	Last Test MW :	0.00	Last Accidents :	
Last Fire Drill :		Last Test TVD :	0.00 ft	Last Safety Meeting :	3/29/2018 19:00
Last Evac Drill :		Last Test Pressure :	0.000 psi	Last Safety Meeting Topic	TEST B.O.P. / CLEANING MUD TANK

Contacts

Day Sup. :	JONAS HALDEMAN	Phone :	903-571-6771	Superintendent :	SANTOS MOROLES	Phone :	432-559-4901
Night Sup. :		Phone :		Geologist :		Phone :	
Alt. Phone :				Drill. Eng. :	RICHARD HILL	Phone :	432-818-1726

Attachments

Daily Attachment Folder(s)

Daily Drilling Report P2

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 22 Report Date : 3/29/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Mud Data

Mud Engineer : BOBBY ODOM Mud Type : Brine Polymer Type :

Chk	Time	Depth (ft)	Density (lbs/gal)	FV (s/qt)	YP (lbs/100 ft²)	PV (cP)	WL (cc/30 min)	Cl (ppm)	Electro Static Stability	Oil Ratio	H2O Ratio	HTHP Water Loss(cc/30 min)
1	22:00	12082.	9.40000	27.00	2	1.00	0.0	94000	0.0	0	0	0.0

Bit Data

Bit #	Run #	Size (in)	Mfg.	Model	IADC Code	Daily Drilled (ft)	Daily Hours	Daily ROP (ft/hr)	Cum Drilled (ft)	Cum Hrs.	Avg. ROP (ft/hr)	Depth In (ft)	Depth Out (ft)	Max WOB (M Lbs)	PSI Drop (psi)	Nozzle Velocity (ft/s)	HHP (HP)
6	1	6.750	ULTERRA	U513M		0.00	0.00	0.00	0.00	0.00	0.00	12082.00	12082.00	0.000	0.000	0.00	0.00

BHA Data

For Bit # : 6 Mud Motor : Total Made : 0 ft

Total BHA Hours : 204.0 Total Hours : 0.00

BHA # : 06 DC OD : 5.000 in DP OD : 4.500 in BHA Length : 2954.95 ft BHA Weight 0.00 M Lbs

Item	Jts	Length (ft)	OD (in)	ID (in)	Coupling OD (in)	Weight (lbs/ft)	Thread Type	Pin/Box
BITS	1	1.00	6.750	0.000	0.000	0.000		Pin
MUD MOTOR	1	25.72	5.000	0.000	0.000	0.000		Box
FLOAT SUB	1	2.07	4.625	2.688	0.000	0.000		
NON- MAG COLLAR	1	7.66	4.625	2.688	0.000	0.000		Box
CROSSOVER SUB	1	1.89	5.000	3.250	0.000	0.000		Box
SUBS	1	3.42	5.000	0.000	0.000	0.000		Box
SUBS	1	8.24	5.000	0.000	0.000	0.000		Box
GAP SUB	1	3.75	5.000	0.000	0.000	0.000		Box
NON- MAG COLLAR	1	27.08	4.500	2.750	0.000	0.000		Box
CROSSOVER SUB	1	4.01	5.310	2.500	0.000	0.000		Box
DRILLPIPE	90	2839.77	4.500	2.826	0.000	0.000		Box
CROSSOVER SUB	1	4.04	5.000	3.000	0.000	0.000		Box
AGITATOR	1	22.25	4.938	0.000	0.000	0.000		Box
CROSSOVER SUB	1	4.05	5.188	2.625	0.000	0.000		Box

Drilling Parameters

Bit #	Run #	Depth (ft)	WOB (M Lbs)	RPM		GPM	Torque		String Weight			Pressure		
				Motor	Rotary		On Bom (ft lbf)	Off Bom (ft lbf)	Pick Up (lbs)	Stack Off (lbs)	Rotate (lbs)	On Bom (psi)	Off Bom (psi)	Diff Press. (psi)
6	1	0.00	0.000	0	0	0	0.00	0.00	0	0	0	0.0	0.0	0.0

Pump Data

Bit #	Pump 1					Pump 2					Pump Pressure (psi)	AV DC (ft/min)	AV DP (ft/min)
	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)			
6	CE FB1600	12.000	5.000	0	0.000	CE FB1600	12.000	5.000	0	0.000	0.00	0	0

Reduced Speed Pumps

Depth(ft)	Pump 1			Pump 2		
	Model	Pressure (psi)	SPM	Model	Pressure (psi)	SPM
0.00	CE FB1600	120.0	30	CE FB1600	140.0	30

Daily Drilling Report P3

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 22 Report Date : 3/29/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Drill Bottom Hole Targets

Bottom Hole Location	API / License #

Survey Data

Depth (ft)	Deviation	Azimuth	TVD (ft)	N/S	N/S (ft)	E/W	E/W (ft)	Vertical Section (ft)	Dog Leg

Hook Loads

Up :	0	
Down :	0	
Rotating :	0	
Torque :	0	Amps
Torque :	0.00	ft lbf

Comments

UL 20 STRIPES 38-47 602H

RIG MOBILIZATION BEGAN - 03/08/2018 @ 00:00 HRS.
SPUD WELL @ 00:00 HRS ON 03/12/2018
(96 HR RIG MOVE, NO DIVERTER)

TOTAL HRS FROM SPUD: 432 HRS (18 DAYS)

NOTIFIED TRRC FOR SPUD @ 11:45 HRS 03/10/2018 (OPERATOR #2 AUDREY)
NOTIFIED TRRC FOR SURFACE CSG & CEMENT W/ TRRC JOB #2 AUDREY @ 1145 HRS 03/10/2018
NOTIFIED TRRC FOR INTERMEDIATE CSG & CMT, JOB # (OPERATOR #4 DIANA) @ 02:07 HRS 03/17/2018, DIANA OPERATOR #4.
NOTIFIED TRRC FOR 2ND INTERMEDIATE CMT, JOB # XXX @ 00:53 HRS, 03/27/2018, DIANA OPERATOR #4

LAST 5" DP INSP. (Red river) CAT- 4 W/ SHEAR WAVE – 03/08/2018.
421 jts kept w/Rig
33 jts sent to fishing tools
128 jts sent to NorAm yard
7 jts. down grade to Energen yd
Sent 16 jts & 1 lift sub to fishing tools

CLEAN/VISUAL INSPECT 742 JTS 4 1/2" DS-42, XX-XX-2018, XXX INSPECTION
742 JTS ACCEPTED BOTH ENDS AS PREMIUM

DAYS SINCE LAST LTA: (XXX DAYS):
CREW SHORTAGES (LAST 24HRS / TOTAL HRS): NO/NO
CREW DOUBLES (LAST 24 HRS / TOTAL HRS): NO/NO

DOWN TIME HRS (LAST 24HRS / TOTAL HRS): 0.0/ 3.5
NON PRODUCTIVE TIME (LAST 24HRS / TOTAL HRS): 9.5/28.5

OBM LOST TO WELL (LAST 24 HRS / TOTAL BBLS): 00 - BBLS / 00- BBL
OBM LOST: 0- BBLS TO FORMATION

OBM LOST: 0-BBLS TO CUTTINGS

13-3/8" 61# HCK-55 BTC SURFACE SET AT 437'
10-3/4"45.5# HCN-80 BTC INTERMEDIATE SET AT 4962'
7-5/8" 29.7# HCP-110 BTC SECOND INTERMEDIATE SET @ 12,072' MD, 11,831' TVD
LATERAL #1
BHA #6 CONSISTING OF: 6.75" ULTERRA U513 JETTED WITH 7 x 12'S = .7731 TFA // 5" PHOENIX 1.83 FBH MTR. (6/7LOBE, 6.4 STG., .80 RPG)(MOTOR BORED FOR FLOAT) // FLOAT SUB // 4.75" NMPC // 5" MWD VELOCITY // 4.5" SLICK NMDC // XO SUB // 90-JTS. OF 4.5"DP // XO SUB // SS/AGITATOR // XO SUB // TOTAL BHA = 2954.95'. DEPTH IN: 12,072' // DEPTH OUT: XXX' // FTG DRILLED: XXX' // TOTAL DRLG HRS: XXX // TOTAL MTR. HRS: XX // ROP: XXX FPH // REASON PULLED: XXX // BIT GRADE = X-X-XX
MWD O/S SCRIBE: DAO:7.6DEG

CURVE #1
BHA #5 CONSISTING OF: 9.875" ULTERRA CF613 JETTED WITH 3 x16'S x 3 x 18'S = 1.33 TFA // 7.75" PHOENIX MTR. 2.38° ADJ., (4/5LOBE, 5.3 STG., .253 REV/GAL) // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC // 1- XO SUB // 36-JTS. OF 5"DP // 15JTS. 5" HWDP // TOTAL BHA = 1678.92' // DEPTH IN: 11,120' // DEPTH OUT: 12082" // FTG DRILLED: 962' // TOTAL DRLG HRS: 28.5 // TOTAL MTR. HRS: 28.5 // ROP: 33.7 FPH // REASON PULLED: CSG POINT // BIT GRADE = 2-2-IG

INTERMEDIATE #2
BHA #4: 9.875" ULTERRA CF716 JETTED WITH 7 x14'S = 1.05 TFA // 7.75" PHOENIX MTR. 1.5° ADJ., (7/8LOBE, 4.0 STG., .166 REV/GAL) // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15JTS. 5" HWDP // TOTAL BHA = 1016.04' // DEPTH IN: 9398' // DEPTH OUT: 11,120' // FTG DRILLED: 1722' // TOTAL DRLG HRS: 53 // TOTAL MTR. HRS: 54.5 // ROP: 32 FPH // REASON PULLED: CHANGE BHA // BIT GRADE = 1-1-CT-S--I-CT-BHA

INTERMEDIATE #2
BHA #3: 9.875" ULTERRA 616M, W/6x16's TFA: 1.1781 // PHOENIX MTR 7.75", 7/8 4.0,1.5° BENT SLICK SLEEVE. 0.166 RPG - // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15 JTS 5" HWDP// TOTAL BHA = 1016.33' // DEPTH IN: 4967' // DEPTH OUT: 9398' // FTG DRILLED: 4431' // TOTAL DRLG HRS: 51 // TOTAL MTR HRS: 52.5 // ROP: 86FPH // REASON PULLED: LOW R.O.P.// BIT GRADE = 4-2-BT-N--I-RO-PR

INTERMEDIATE #1
BHA #2: 12.25" ULTERRA CF616S, W/6x16's TFA: 1.1781 // PHOENIX MTR 7.75", 7/8 4.0,1.5° BENT STAB. 0.166 RPG - // 11.75" NORTRAK STAB // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 11.75 NORTRAK STAB // 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15 JTS 5" HWDP // TOTAL BHA = 1026.98' // DEPTH IN: 450' // DEPTH OUT: 4967' // FTG. DRILLED: 4517' // TOTAL DRLG. HRS.: 59.5 // TOTAL MTR. HRS: 60.5 // AVG. ROP: 81' FPH // REASON PULLED: TD / CSG. POINT // 1-1-CT-N-I-NO-TD

SURFACE #1
BHA #1: 17.5" ULTERRA U616S, W/9x16's TFA: 1.767 // TDI DIRECTIONAL MTR 9-5/8", 5/6 4.0,1.5° BENT SLICK 0.107 RPG - // IBS // MWD EXTREME // UBHO // 8" NMDC //17.25" NM IBS//8" NMDC//FILTER SUB// 8" SHOCK SUB // 12 - 8" DC // 1- XO SUBS //12- JTS 6.5" DC//XO// 15 JTS HWDP// TOTAL BHA = 1305.77 // DEPTH IN: 145' // DEPTH OUT: 450' // FTG. DRILLED: 305' // TOTAL DRLG HRS: 8 // TOTAL MTR. HRS: 11 // ROP: 38.1' FPH // REASON PULLED: CSG POINT // 1/1 BIT GRADE: 1-1-NO-A-I-NO-TD

STARTING RIG FUEL - 3200 GALLONS TRANSFERRED IN .

DIESEL USAGE:
RIG FUEL (DAILY/TOTAL): 879/32,852 GALS
MUD DIESEL (DAILY/TOTAL 0/ 0 GALS
AUXILIARY EQUIPMENT (DAILY/TOTAL): 500/ 1577 GALS
CERTARUS GAS (DAILY/TOTAL) .44/6419.84

NO LEAKS OR SPILLS REPORTED OR OBSERVED

Solids Removal

Shakers

Shaker #	Bottom	Middle	Top

Other Solids Removal Equipment

Item	Hrs Run	Intake Density (lbs/gal)	Overflow Density (lbs/gal)	Underflow Density (lbs/gal)

Mud Log

Formation :
Background Gas :
Trip Calc :
Connection Gas :
Flare Length :

Well Incident

Report # :
Incident Date :
Report Date :
Problem Name :

Daily Drilling Report P1

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 24 Report Date : 3/31/2018

Financials

Daily Cost : $60,414 Cost to Date : $2,497,607

AFE # : PB18100003

AFE : $10,772,650 AFE Cost to Date : $2,497,607

Operations

Event Objective : Noram 27 D&C DB DEV WC A Event Sub Type : Drilling Prod

A.M. Ops : 00:00-06:00: ROT/SLIDE DRLG 6-3/4" LATERAL F/13,418' - 13,818'(400' @ 67FPH).

Ops Forecast : DRILL/BUILD CURVE, DRILL 6-3/4" AS PER PLAN # TO 21,623'. FOOTAGE LEFT TO DRILL:8205'.

24hr. Summary : ROT/SLIDE DRLG/BUILDING CURVE F/12,165' - 12,418'(EOC)(6 HRS), ROT/SLIDE DRLG LATERAL F/12,418' - 13,418'(15.5 HRS)

Planning Status :

Elevations

GL 2772.00 ft Reserve Pit Freeboard : 0.00 ft

Progress

Days from Spud : 19 Progress : 1253.00 ft MD at Report Time : 13418.00 ft

Rig on Location (days) : 24 Est. TD : 21672.00 ft TVD At Report Time : 11887.00 ft

Event Dates

Spud Date	Spud Time	Suspended Drilling Date	Resume Drilling Date	Total Depth Date	Total Depth Time	Finished Drilling Date	Finished Drilling Time	Rig Released Date	Rig Released Time
3/12/2018	00:00								

Time Breakdown

Start Time : 00:00 Initial Depth : 0.00 ft Drilling Hours : 20.50 Total Drilling Hours : 253.50 Total Hours : 24.00 Time Code : DRILLING -

Drilling % : 85.42 Rotating % : 65.85 Sliding % : 34.15

Start Time	End Time	Hours	Phase	Activity		NPT	Bit #	Run #	Depth (ft)	Remarks
				Time Code	Description					
00:00	00:30	0.50	DRLPRC	02M	DRILLING - DRILLING - SLIDING	No	6	1	12171.00	SLIDE DRLG F/ 12, 165' - 12, 171'(6' @ 25FPH). TF: 10R WOB: 35K, PP: 3700PSI, DIFF: 600PSI, TORQ: 4 - 6, GPM: 275, MMRPM: 220. MW; 12. 5PPG, VIS: 69. LITHOLGY: 100% BLACK SHALE.
00:30	01:00	0.50	DRLPRC	02D	DRILLING - MTR/TURB - DIR/HORZ	No	6	1	12181.00	ROT DRLG F/ 12, 171' - 12, 181'(10' @ 20FPH). WOB: 22K, ROT: 20, PP: 3700PSI, DIFF: 550PSI, TORQ: 4 - 6, GPM: 230 - 260, MMRPM: 208.
01:00	01:30	0.50	DRLPRC	02M	DRILLING - DRILLING - SLIDING	No	6	1	12218.00	SLIDE DRLG F/ 12, 181' - 12, 218'(37' @ 37FPH). TF: 10R WOB: 35K, PP: 3700PSI, DIFF: 600PSI, TORQ: 4 - 6, GPM: 275, MMRPM: 220. MW; 12. 5PPG, VIS: 69. LITHOLGY: 100% BLACK SHALE.
01:30	02:00	0.50	DRLPRC	02D	DRILLING - MTR/TURB - DIR/HORZ	No	6	1	12227.00	ROT DRLG F/ 12, 218' - 12, 227'(9' @ 18FPH). WOB: 22K, ROT: 20, PP: 3700PSI, DIFF: 550PSI, TORQ: 4 - 6, GPM: 230 - 260, MMRPM: 208.
02:00	02:30	0.50	DRLPRC	02M	DRILLING - DRILLING - SLIDING	No	6	1	12253.00	SLIDE DRLG F/ 12, 227' - 12, 253'(26' @ 34FPH). TF: 15L WOB: 25K, PP: 3700PSI, DIFF: 450PSI, TORQ: 4 - 6, GPM: 275, MMRPM: 220. MW; 12. 5PPG, VIS: 69.
02:30	03:00	0.50	DRLPRC	02D	DRILLING - MTR/TURB - DIR/HORZ	No	6	1	12275.00	ROT DRLG F/ 12, 253' - 12, 275'(22' @ 88FPH). WOB: 24K, ROT: 20, PP: 3700PSI, DIFF: 600PSI, TORQ: 4 - 6, GPM: 230 - 260, MMRPM: 208.
03:00	03:30	0.50	DRLPRC	02M	DRILLING - DRILLING - SLIDING	No	6	1	12290.00	SLIDE DRLG F/ 12, 275' - 12, 290' (15' @ 30FPH). TF: 15L WOB: 25K, PP: 3700PSI, DIFF: 550PSI, TORQ: 4 - 6, GPM: 275, MMRPM: 220. MW; 12. 5PPG, VIS: 69.
03:30	06:00	2.50	DRLPRC	02D	DRILLING - MTR/TURB - DIR/HORZ	No	6	1	12418.00	ROT DRLG. 6. 75" LATERAL F/ 12, 290' - 12, 418' (128' - 51FPH WOB: 24K, ROT: 20, PP: 3700PSI., DIFF: 600PSI., TORQ: 5/ 7K, GPM: 230- 260, MMRPM: 208, MD. WT. 12. 4PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES EOC = 12, 418'
06:00	07:30	1.50	DRLPRL	02D	DRILLING - MTR/TURB - DIR/HORZ	No	6	1	12541.00	ROT DRLG. 6. 75" LATERAL F/ 12, 418' - 12, 541' (123' - 82FPH WOB: 24K, ROT: 65, PP: 3700PSI., DIFF: 600PSI., TORQ: 5/ 7K, GPM: 230- 260, MMRPM: 208, MD. WT. 12. 4PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES
07:30	08:00	0.50	DRLPRL	13E	DEV SURV - OTHER	Yes	6	1	12541.00	RECYCLE MUD PUMP AND RE- LOG GAMMA
08:00	08:30	0.50	DRLPRL	02D	DRILLING - MTR/TURB - DIR/HORZ	No	6	1	12606.00	ROT DRLG. 6. 75" LATERAL F/ 12, 541' - 12, 606' (65' - 130FPH WOB: 24K, ROT: 65, PP: 3700PSI., DIFF: 600PSI., TORQ: 5/ 7K, GPM: 230- 260, MMRPM: 208, MD. WT. 12. 4PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES
08:30	09:00	0.50	DRLPRL	13E	DEV SURV - OTHER	Yes	6	1	12606.00	SEND DOWN LINK FOR STRONGER SIGNAL STRENGTH FROM . 75 TO A 1
09:00	11:30	2.50	DRLPRL	02D	DRILLING - MTR/TURB - DIR/HORZ	No	6	1	12823.00	ROT DRLG. 6. 75" LATERAL F/ 12, 606' - 12, 823' (217' - 86FPH) WOB: 27K, ROT: 65, PP: 3750PSI., DIFF: 450/ 750PSI., TORQ: 5/ 7K, GPM: 230 - 260, MMRPM: 208, MD. WT. 12. 4PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES
11:30	13:30	2.00	DRLPRL	36B	HSE - H2S	Yes	6	1	12823.00	H2S ALARM AT SHAKERS WENT OFF SHOWING 152PPM WHILE DRILLING @ 12, 823', SIW AND EVACUATED RIG - CALLED OUT SAFETY SOLUTIONS TO CLEAR RIG, NO H2S WAS DETECTED - OW AND CIRCULATED DOWN FLOW LINE WHILE SAFETY HAND SNIFFED AT SHAKERS - NO H2S WAS DETECTED
										ROT DRLG. 6. 75" LATERAL F/ 12, 823' - 13, 089' (266' - 89FPH)

13:30	16:30	3.00	DRLPRL	02D	DRILLING - MTR/TURB - DIR/HORZ	No	6	1	13089.00	WOB: 28K, ROT: 65, PP: 4030PSI., DIFF: 620PSI., TORQ: 9K, GPM: 294, MMRPM: 235, MD. WT. 12.4PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES
16:30	17:00	0.50	DRLPRL	10A	LUB RIG - DAILY SERVICE	No	6	1	13089.00	RIG SERVICE.
17:00	18:00	1.00	DRLPRL	02M	DRILLING - DRILLING - SLIDING	No	6	1	13124.00	SLIDE DRLG. 6.75" LATERAL F/ 13,089' - 13,124' (35' - 35FPH) TF: 90R, WOB: 16K, PP: 3635PSI., DIFF: 320PSI., GPM: 294, MMRPM: 235, MD. WT. 12.4PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES
18:00	18:30	0.50	DRLPRL	02D	DRILLING - MTR/TURB - DIR/HORZ	No	6	1	13184.00	ROT DRLG. 6.75" LATERAL F/ 13,124' - 13,184' (60' - 120FPH) WOB: 28K, ROT: 65, PP: 4030PSI., DIFF: 620PSI., TORQ: 9K, GPM: 294, MMRPM: 235, MD. WT. 12.4PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES
18:30	20:00	1.50	DRLPRL	02M	DRILLING - DRILLING - SLIDING	No	6	1	13235.00	SLIDE DRLG. 6.75" LATERAL F/ 13,184' - 13,235' (51' - 34FPH) TF: 90R, WOB: 30K, PP: 3800PSI., DIFF: 450PSI., GPM: 294, MMRPM: 235, MD. WT. 12.4PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES
20:00	20:30	0.50	DRLPRL	02D	DRILLING - MTR/TURB - DIR/HORZ	No	6	1	13255.00	ROT DRLG. 6.75" LATERAL F/ 13,235' - 13,255' (20' - 40FPH) WOB: 28K, ROT: 65, PP: 4030PSI., DIFF: 620PSI., TORQ: 9K, GPM: 294, MMRPM: 235, MD. WT. 12.4PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES
20:30	21:00	0.50	DRLPRL	02M	DRILLING - DRILLING - SLIDING	No	6	1	13269.00	SLIDE DRLG. 6.75" LATERAL F/ 13,255' - 13269' (14' - 28FPH) TF: 90R, WOB: 30K, PP: 3800PSI., DIFF: 450PSI., GPM: 294, MMRPM: 235, MD. WT. 12.4PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES
21:00	21:30	0.50	DRLPRL	02D	DRILLING - MTR/TURB - DIR/HORZ	No	6	1	13302.00	ROT DRLG. 6.75" LATERAL F/ 13,269' - 13,302' (33' - 66FPH) WOB: 28K, ROT: 65, PP: 4050PSI., DIFF: 750PSI., TORQ: 8K, GPM: 294, MMRPM: 235, MD. WT. 12.4PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES
21:30	23:00	1.50	DRLPRL	02M	DRILLING - DRILLING - SLIDING	No	6	1	13363.00	SLIDE DRLG. 6.75" LATERAL F/ 13302' - 13,363' (61' - 40.6FPH) TF: 90R, WOB: 30K, PP: 3800PSI., DIFF: 450PSI., GPM: 294, MMRPM: 235, MD. WT. 12.4PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES
23:00	23:30	0.50	DRLPRL	02D	DRILLING - MTR/TURB - DIR/HORZ	No	6	1	13396.00	ROT DRLG. 6.75" LATERAL F/ 13,363' - 13,396' (33' - 66FPH) WOB: 28K, ROT: 65, PP: 4050PSI., DIFF: 750PSI., TORQ: 8K, GPM: 294, MMRPM: 235, MD. WT. 12.4PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES
23:30	00:00	0.50	DRLPRL	02M	DRILLING - DRILLING - SLIDING	No	6	1	13418.00	SLIDE DRLG. 6.75" LATERAL F/ 13,396' - 13,418' (22' - 44FPH) TF: 100R, WOB: 28K, PP: 3800PSI., DIFF: 450PSI., GPM: 294, MMRPM: 235, MD. WT. 12.4PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES

Personnel Hours

Vendor	Vendor Type	Number Of People	Hours On Site	Total Hours
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00
NORAM DRILLING COMPANY	TOOLPUSHER	1	24.00	24.00
NORAM DRILLING COMPANY	RIG CREWS	12	24.00	288.00
AES DRILLING FLUIDS LLC	1- MAN CREW	1	24.00	24.00
PHOENIX DIRECTIONAL DRILLERS	4- MAN CREW	4	24.00	96.00
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00

Rig Information

KB Elevation: 2797.00 ft | KB To GL : 25.00 ft

Rig(s) for today : Noram 27 | Rig Manager : TOBY JOHNSON | Rig Phone : 432-219-0731

Date and Time of Rig Release : | Days From Rig Release : 0.00 | Rig Fax :

Safety

Last BOP Test(F) Date :	3/29/2018	Last BOP Pressure :	8500.000 psi	Last Lot Fit :	14.50
Last Csg Date :	3/19/2018	Last Csg Pressure :	1500.000 psi	Last Spills Reported :	
Last BOP Drill Date :	3/31/2018	Last Test MW :	12.50	Last Accidents :	
Last Fire Drill :		Last Test TVD :	11831.00 ft	Last Safety Meeting :	3/31/2018 19:00
Last Evac Drill :		Last Test Pressure :	1230.000 psi	Last Safety Meeting Topic :	H2S EVACUATION / HOUSEKEEPIN

Contacts

Day Sup. :	JONAS HALDEMAN	Phone :	903-571-6771	Superintendent :	SANTOS MOROLES	Phone :	432-559-4901
Night Sup. :		Phone :		Geologist :		Phone :	
Alt. Phone :				Drill. Eng. :	RICHARD HILL	Phone :	432-818-1726

Attachments

Daily Attachment Folder(s)

Daily Drilling Report P2

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 24 Report Date : 3/31/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Mud Data

Mud Engineer : BOBBY ODOM Mud Type : Oil Base Mud Polymer Type :

Chk	Time	Depth (ft)	Density (lbs/gal)	FV (s/qt)	YP (lbs/100 ft²)	PV (cP)	WL (cc/30 min)	Cl (ppm)	Electro Static Stability	Oil Ratio	H2O Ratio	HTHP Water Loss(cc/30 min)
1	23:00	13365.	12.40000	56.00	12	20.00	12.2	44000	295.0	75	25	12.2

Bit Data

Bit #	Run #	Size (in)	Mfg.	Model	IADC Code	Daily Drilled (ft)	Daily Hours	Daily ROP (ft/hr)	Cum Drilled (ft)	Cum Hrs.	Avg. ROP (ft/hr)	Depth In (ft)	Depth Out (ft)	Max WOB (M Lbs)	PSI Drop (psi)	Nozzle Velocity (ft/s)	HHP (HP)
6	1	6.750	ULTERRA	U513M		1253.0	20.50	61.12	1300.00	28.00	46.43	12165.00	13418.00	28.000	164.662	121.85	28.22

BHA Data

For Bit # : 6 Mud Motor : Total Made : 0 ft

Total BHA Hours : 265.0 Total Hours : 0.00

BHA # : DC OD : 5.000 in DP OD : 4.500 in BHA Length : 0.00 ft BHA Weight 0.00 M Lbs

Item	Jts	Length (ft)	OD (in)	ID (in)	Coupling OD (in)	Weight (lbs/ft)	Thread Type	Pin/Box

Drilling Parameters

Bit #	Run #	Depth (ft)	WOB (M Lbs)	RPM		GPM	Torque		String Weight			Pressure		
				Motor	Rotary		On Bom (ft lbf)	Off Bom (ft lbf)	Pick Up (lbs)	Stack Off (lbs)	Rotate (lbs)	On Bom (psi)	Off Bom (psi)	Diff Press. (psi)
6	1	13418.00	28.000	208	22	260	4000.00	9000.00	250	200	230	4050.0	3400.0	650.0

Pump Data

Bit #	Pump 1					Pump 2					Pump Pressure (psi)	AV DC (ft/min)	AV DP (ft/min)
	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)			
6	CE FB1600	12.000	5.000	101	293.639	CE FB1600	12.000	5.000	0	0.000	4000.00	350	284

Reduced Speed Pumps

Depth(ft)	Pump 1			Pump 2		
	Model	Pressure (psi)	SPM	Model	Pressure (psi)	SPM
12006.00	CE FB1600	680.0	30	CE FB1600	140.0	30
12006.00	CE FB1600	840.0	40		0.0	0
12006.00	CE FB1600	1400.0	60		0.0	0

Daily Drilling Report P3

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 24 Report Date : 3/31/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Drill Bottom Hole Targets

Bottom Hole Location	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Survey Data

Depth (ft)	Deviation	Azimuth	TVD (ft)	N/S	N/S (ft)	E/W	E/W (ft)	Vertical Section (ft)	Dog Leg
12181.00	76.26	168.7	11862.56	S	-648.02	E	215.91	682.54	9.81
12276.00	86.19	168.7	11877.03	S	-739.98	E	234.25	775.96	10.29
12371.00	87.22	167.2	11882.50	S	-832.74	E	254.00	870.54	1.87
12466.00	88.58	166.3	11885.98	S	-925.16	E	275.70	965.34	1.69
12560.00	88.25	165.0	11888.58	S	-1016.19	E	298.99	1059.26	1.46
12655.00	88.81	164.3	11891.01	S	-1107.76	E	324.14	1154.21	0.90
12750.00	89.30	164.0	11892.58	S	-1199.14	E	350.09	1249.20	0.61
12845.00	89.35	162.6	11893.70	S	-1290.13	E	377.36	1344.19	1.40
12939.00	89.88	161.3	11894.33	S	-1379.50	E	406.49	1438.13	1.56
13034.00	90.92	156.6	11893.67	S	-1468.12	E	440.62	1532.77	4.91
13128.00	91.41	156.5	11891.76	S	-1554.35	E	478.00	1626.00	0.53
13223.00	91.82	155.9	11889.08	S	-1641.25	E	516.29	1720.14	0.73
13318.00	90.35	160.0	11887.28	S	-1729.29	E	551.89	1814.62	4.52

Hook Loads

Up : 250

Down : 200

Rotating : 230

Torque : 0 Amps

Torque : 9000.00 ft lbf

Comments

UL 20 STRIPES 38-47 602H

RIG MOBILIZATION BEGAN - 03/08/2018 @ 00:00 HRS.
SPUD WELL @ 00:00 HRS ON 03/12/2018
(96 HR RIG MOVE, NO DIVERTER)

TOTAL HRS FROM SPUD: 480 HRS (20 DAYS)

NOTIFIED TRRC FOR SPUD @ 11:45 HRS 03/10/2018 (OPERATOR #2 AUDREY)
NOTIFIED TRRC FOR SURFACE CSG & CEMENT W/ TRRC JOB #2 AUDREY @ 1145 HRS 03/10/2018
NOTIFIED TRRC FOR INTERMEDIATE CSG & CMT, JOB # (OPERATOR #4 DIANA) @ 02:07 HRS 03/17/2018, DIANA OPERATOR #4.
NOTIFIED TRRC FOR 2ND INTERMEDIATE CMT, JOB # XXX @ 00:53 HRS, 03/27/2018, DIANA OPERATOR #4

LAST 5" DP INSP. (Red river) CAT- 4 W/ SHEAR WAVE – 03/08/2018.
421 jts kept w/Rig
33 jts sent to fishing tools
128 jts sent to NorAm yard
7 jts. down grade to Energen yd
Sent 16 jts & 1 lift sub to fishing tools

CLEAN/VISUAL INSPECT 742 JTS 4 1/2" DS-42, XX-XX-2018, XXX INSPECTION
742 JTS ACCEPTED BOTH ENDS AS PREMIUM

DAYS SINCE LAST LTA: (XXX DAYS):
CREW SHORTAGES (LAST 24HRS / TOTAL HRS): NO/NO
CREW DOUBLES (LAST 24 HRS / TOTAL HRS): NO/NO

DOWN TIME HRS (LAST 24HRS / TOTAL HRS): 0.0/ 3.5
NON PRODUCTIVE TIME (LAST 24HRS / TOTAL HRS): 3/31.5

OBM LOST TO WELL (LAST 24 HRS / TOTAL BBLS): 00 - BBLS / 00- BBL
OBM LOST: 0- BBLS TO FORMATION
OBM LOST: 0-BBLS TO CUTTINGS

13-3/8" 61# HCK-55 BTC SURFACE SET AT 437'
10-3/4"45.5# HCN-80 BTC INTERMEDIATE SET AT 4962'
7-5/8" 29.7# HCP-110 BTC SECOND INTERMEDIATE SET @ 12,072' MD, 11,831' TVD

LATERAL #1
BHA #6 CONSISTING OF: 6.75" ULTERRA U513 JETTED WITH 7 x 12'S = .7731 TFA // 5" PHOENIX 1.83 FBH MTR. (6/7LOBE, 6.4 STG., .80 RPG)(MOTOR BORED FOR FLOAT) // FLOAT SUB // 4.75" NMPC // 5" MWD VELOCITY // 4.5" SLICK NMDC // XO SUB // 90-JTS. OF 4.5"DP // XO SUB // SS/AGITATOR // XO SUB // TOTAL BHA = 2954.95'. DEPTH IN: 12,072' // DEPTH OUT: XXX' // FTG DRILLED: XXX' // TOTAL DRLG HRS: XXX // TOTAL MTR. HRS: XX // ROP: XXX FPH // REASON PULLED: XXX // BIT GRADE = X-X-XX
MWD O/S SCRIBE: DAO:7.6DEG

CURVE #1
BHA #5 CONSISTING OF: 9.875" ULTERRA CF613 JETTED WITH 3 x16'S x 3 x 18'S = 1.33 TFA // 7.75" PHOENIX MTR. 2.38° ADJ., (4/5LOBE, 5.3 STG., .253 REV/GAL) // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC // 1- XO SUB // 36-JTS. OF 5"DP // 15JTS. 5" HWDP // TOTAL BHA = 1678.92' // DEPTH IN: 11,120' // DEPTH OUT: 12082" // FTG DRILLED: 962' // TOTAL DRLG HRS: 28.5 // TOTAL MTR. HRS: 28.5 // ROP: 33.7 FPH // REASON PULLED: CSG POINT // BIT GRADE = 2-2-IG

INTERMEDIATE #2
BHA #4: 9.875" ULTERRA CF716 JETTED WITH 7 x14'S = 1.05 TFA // 7.75" PHOENIX MTR. 1.5° ADJ., (7/8LOBE, 4.0 STG., .166 REV/GAL) // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15JTS. 5" HWDP // TOTAL BHA = 1016.04' // DEPTH IN: 9398' // DEPTH OUT: 11,120' // FTG DRILLED: 1722' // TOTAL DRLG HRS: 53 // TOTAL MTR. HRS: 54.5 // ROP: 32 FPH // REASON PULLED: CHANGE BHA // BIT GRADE = 1-1-CT-S--I-CT-BHA

INTERMEDIATE #2
BHA #3: 9.875" ULTERRA 616M, W/6x16's TFA: 1.1781 // PHOENIX MTR 7.75", 7/8 4.0,1.5° BENT SLICK SLEEVE. 0.166 RPG - // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15 JTS 5" HWDP// TOTAL BHA = 1016.33' // DEPTH IN: 4967' // DEPTH OUT: 9398' // FTG DRILLED: 4431' // TOTAL DRLG HRS: 51 // TOTAL MTR HRS: 52.5 // ROP: 86FPH // REASON PULLED: LOW R.O.P.// BIT GRADE = 4-2-BT-N--I-RO-PR

INTERMEDIATE #1
BHA #2: 12.25" ULTERRA CF616S, W/6x16's TFA: 1.1781 // PHOENIX MTR 7.75", 7/8 4.0,1.5° BENT STAB. 0.166 RPG - // 11.75" NORTRAK STAB // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 11.75 NORTRAK STAB // 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15 JTS 5" HWDP // TOTAL BHA = 1026.98' // DEPTH IN: 450' // DEPTH OUT: 4967' // FTG. DRILLED: 4517' // TOTAL DRLG. HRS.: 59.5 // TOTAL MTR. HRS: 60.5 // AVG. ROP: 81' FPH // REASON PULLED: TD / CSG. POINT // 1-1-CT-N-I-NO-TD

SURFACE #1
BHA #1: 17.5" ULTERRA U616S, W/9x16's TFA: 1.767 // TDI DIRECTIONAL MTR 9-5/8", 5/6 4.0,1.5° BENT SLICK 0.107 RPG - // IBS // MWD EXTREME // UBHO // 8" NMDC //17.25" NM IBS//8" NMDC//FILTER SUB// 8" SHOCK SUB // 12 - 8" DC // 1- XO SUBS //12- JTS 6.5" DC//XO// 15 JTS HWDP// TOTAL BHA = 1305.77 // DEPTH IN: 145' // DEPTH OUT: 450' // FTG. DRILLED: 305' // TOTAL DRLG HRS: 8 // TOTAL MTR. HRS: 11 // ROP: 38.1' FPH // REASON PULLED: CSG POINT // 1/1 BIT GRADE: 1-1-NO-A-I-NO-TD

STARTING RIG FUEL - 3200 GALLONS TRANSFERRED IN .

DIESEL USAGE:
RIG FUEL (DAILY/TOTAL): 1250/35128 GALS
MUD DIESEL (DAILY/TOTAL 2600/ 3250 GALS
AUXILIARY EQUIPMENT (DAILY/TOTAL): 897/ 1577 GALS
CERTARUS GAS (DAILY/TOTAL) 274 / 7006.82

NO LEAKS OR SPILLS REPORTED OR OBSERVED

Solids Removal

Shakers

Shaker #	Bottom	Middle	Top

Other Solids Removal Equipment

Item	Hrs Run	Intake Density (lbs/gal)	Overflow Density (lbs/gal)	Underflow Density (lbs/gal)

Mud Log

Formation : Wolfcamp A Shale

Background Gas : 304 Connection Gas : 748 Flare Length :

Trip Calc :

Well Incident

Report # : Incident Date : Report Date :

Problem Name :

Daily Drilling Report P1

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 25 Report Date : 4/1/2018

Financials

Daily Cost : $54,988 Cost to Date : $2,552,595

AFE # : PB18100003

AFE : $10,772,650 AFE Cost to Date : $2,552,595

Operations

Event Objective : Noram 27 D&C DB DEV WC A Event Sub Type : Drilling Prod

A.M. Ops : 00:00-06:00: ROT/SLIDE DRLG 6-3/4" LATERAL F/14,950' - 15,250' (300' - 50FPH)

Ops Forecast : DRILL 6-3/4" LATERAL AS PER PLAN #3 TO 21,623'. FOOTAGE LEFT TO DRILL 6673'

24hr. Summary : ROT/SLIDE DRLG 6-3/4" HOLE F/13,418' - 14,950', 23 HOURS, FOOTAGE:1532', AVG ROP:67FPH.

Planning Status :

Elevations

GL 2772.00 ft Reserve Pit Freeboard : 0.00 ft

Progress

Days from Spud : 20 Progress : 1532.00 ft MD at Report Time : 14950.00 ft

Rig on Location (days) : 25 Est. TD : 21672.00 ft TVD At Report Time : 11834.00 ft

Event Dates

Spud Date	Spud Time	Suspended Drilling Date	Resume Drilling Date	Total Depth Date	Total Depth Time	Finished Drilling Date	Finished Drilling Time	Rig Released Date	Rig Released Time
3/12/2018	00:00								

Time Breakdown

Start Time : 00:00 Initial Depth : 0.00 ft Drilling Hours : 23.00 Total Drilling Hours : 276.50 Total Hours : 24.00 Time Code : DRILLING -

Drilling % : 95.83 Rotating % : 47.83 Sliding % : 52.17

Start Time	End Time	Hours	Phase	Activity		NPT	Bit #	Run #	Depth (ft)	Remarks
				Time Code	Description					
00:00	01:30	1.50	DRLPRL	02D	DRILLING - MTR/TURB - DIR/HORZ	No	6	1	13553.00	ROT DRLG. 6.75" LATERAL F/ 13,418' - 13,553'(135' - 90FPH) WOB: 28K, ROT: 75, PP: 4050PSI., DIFF: 750PSI., TORQ: 8K, GPM: 294, MMRPM: 235, MD. WT. 12.4PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES
01:30	03:00	1.50	DRLPRL	02M	DRILLING - DRILLING - SLIDING	No	6	1	13609.00	SLIDE DRLG. 6.75" LATERAL F/ 13,553' - 13,609'(56' - 37.3FPH) TF: 100R, WOB: 28K, PP: 3800PSI., DIFF: 450PSI., GPM: 294, MMRPM: 235, MD. WT. 12.4PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES
03:00	03:30	0.50	DRLPRL	02D	DRILLING - MTR/TURB - DIR/HORZ	No	6	1	13647.00	ROT DRLG. 6.75" LATERAL F/ 13,609' - 13,647'(38' - 76FPH) WOB: 28K, ROT: 75, PP: 4050PSI., DIFF: 750PSI., TORQ: 8K, GPM: 295, MMRPM: 235, MD. WT. 12.3PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES
03:30	04:30	1.00	DRLPRL	02M	DRILLING - DRILLING - SLIDING	No	6	1	13684.00	SLIDE DRLG. 6.75" LATERAL F/ 13,647' - 13,684'(37' - 37FPH) TF: 100R, WOB: 40K, PP: 3800PSI., DIFF: 450PSI., GPM: 294, MMRPM: 235, MD. WT. 12.4PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES
04:30	05:00	0.50	DRLPRL	02D	DRILLING - MTR/TURB - DIR/HORZ	No	6	1	13753.00	ROT DRLG. 6.75" LATERAL F/ 13,684' - 13,753(69' - 138FPH) WOB: 28K, ROT: 75, PP: 4100PSI., DIFF: 700PSI., TORQ: 10K, GPM: 295, MMRPM: 235, MD. WT. 12.3PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES
05:00	05:30	0.50	DRLPRL	02M	DRILLING - DRILLING - SLIDING	No	6	1	13773.00	SLIDE DRLG. 6.75" LATERAL F/ 13,753' - 13,773' (20' - 40FPH) TF: 120R, WOB: 40K, PP: 3800PSI., DIFF: 450PSI., GPM: 294, MMRPM: 235, MD. WT. 12.4PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES
05:30	06:30	1.00	DRLPRL	02D	DRILLING - MTR/TURB - DIR/HORZ	No	6	1	13862.00	ROT DRLG. 6.75" LATERAL F/ 13,773' - 13,862 (89' - 89FPH) WOB: 28K, ROT: 75, PP: 4100PSI., DIFF: 700PSI., TORQ: 10K, GPM: 295, MMRPM: 235, MD. WT. 12.3PPG., BGG 360UNITS, DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES
06:30	07:30	1.00	DRLPRL	02M	DRILLING - DRILLING - SLIDING	No	6	1	13883.00	SLIDE DRLG. 6.75" LATERAL F/ 13,862' - T/ 13,883' (21' - 21FPH) TF: 100L, WOB: 20K, PP: 3800PSI., DIFF: 450PSI., GPM: 294, MMRPM: 235, MD. WT. 12.4PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES
07:30	08:00	0.50	DRLPRL	02D	DRILLING - MTR/TURB - DIR/HORZ	No	6	1	13967.00	ROT DRLG. 6.75" LATERAL F/ 13,862' - 13,967' (84' - 168FPH) WOB: 28K, ROT: 75, PP: 4100PSI., DIFF: 700PSI., TORQ: 10K, GPM: 295, MMRPM: 235, MD. WT. 12.3PPG., BGG 360UNITS, DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES
08:00	09:00	1.00	DRLPRL	02M	DRILLING - DRILLING - SLIDING	No	6	1	14007.00	SLIDE DRLG. 6.75" LATERAL F/ 13,967' - T/ 14,007' (40' - 40FPH) TF: 120L, WOB: 20K, PP: 3800PSI., DIFF: 450PSI., GPM: 294, MMRPM: 235, MD. WT. 12.4PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES
09:00	09:30	0.50	DRLPRL	02D	DRILLING - MTR/TURB - DIR/HORZ	No	6	1	14062.00	ROT DRLG. 6.75" LATERAL F/ 14,007' - 14,062' (55' - 110FPH) WOB: 28K, ROT: 75, PP: 4100PSI., DIFF: 700PSI., TORQ: 10K, GPM: 295, MMRPM: 235, MD. WT. 12.3PPG., BGG 360UNITS, DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES
09:30	10:30	1.00	DRLPRL	02M	DRILLING - DRILLING - SLIDING	No	6	1	14107.00	SLIDE DRLG. 6.75" LATERAL F/ 14,062' - T/ 14,107' (45' - 45FPH) TF: 120L, WOB: 20K, PP: 3800PSI., DIFF: 450PSI., GPM: 294, MMRPM: 235, MD. WT. 12.4PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES
										ROT DRLG. 6.75" LATERAL F/ 14,107' - 14,326' (219' - 109FPH)

10:30	12:30	2.00	DRLPRL	02D	DRILLING - MTR/TURB - DIR/HORZ	No	6	1	14326.00	WOB: 28K, ROT: 65/75, PP: 4100PSI., DIFF: 700PSI., TORQ: 10K, GPM: 295, MMRPM: 235, MD. WT. 12.3PPG., BGG 360UNITS, DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES
12:30	14:00	1.50	DRLPRL	02M	DRILLING - DRILLING - SLIDING	No	6	1	14376.00	SLIDE DRLG. 6.75" LATERAL F/ 14,326' - T/ 14,376' (50' - 33FPH) TF: 105L, WOB: 20K, PP: 3800PSI., DIFF: 450PSI., GPM: 294, MMRPM: 235, MD. WT. 12.4PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES
14:00	15:30	1.50	DRLPRL	02D	DRILLING - MTR/TURB - DIR/HORZ	No	6	1	14522.00	ROT DRLG. 6.75" LATERAL F/ 14,376' - 14,522' (146' - 97.3FPH) WOB: 28K, ROT: 75, PP: 4290PSI., DIFF: 740PSI., TORQ: 12K, GPM: 294, MMRPM: 235, MD. WT. 12.3PPG., BGG 280UNITS, DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES
15:30	16:00	0.50	DRLPRL	10A	LUB RIG - DAILY SERVICE	No	6	1	14522.00	RIG SERVICE.
16:00	16:30	0.50	DRLPRL	35J	TROUBLE - EF - SURFACE EQPT	No	6	1	14522.00	WORK PIPE & MONITOR WELL WHILE WORK ON MUD PUMPS. SUCTION & DISCHARGE VALVES AND HOSES LEAKING BOTH PUMPS.
16:30	17:30	1.00	DRLPRL	02D	DRILLING - MTR/TURB - DIR/HORZ	No	6	1	14607.00	ROT DRLG. 6.75" LATERAL F/ 14,522' - 14,607' (85' - 85FPH) WOB: 28K, ROT: 75, PP: 4290PSI., DIFF: 740PSI., TORQ: 12K, GPM: 294, MMRPM: 235, MD. WT. 12.3PPG., BGG 280UNITS, DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES
17:30	18:00	0.50	DRLPRL	02M	DRILLING - DRILLING - SLIDING	No	6	1	14647.00	SLIDE DRLG. 6.75" LATERAL F/ 14,607' - T/ 14,647' (40' - 80FPH) TF: 110L, WOB: 36K, PP: 3800PSI., DIFF: 450PSI., GPM: 294, MMRPM: 235, MD. WT. 12.3PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES
18:00	19:00	1.00	DRLPRL	02D	DRILLING - MTR/TURB - DIR/HORZ	No	6	1	14701.00	ROT DRLG. 6.75" LATERAL F/ 14,647' - 14,701' (54' - 54FPH) WOB: 28K, ROT: 75, PP: 4250PSI., DIFF: 650PSI., TORQ: 12K, GPM: 294, MMRPM: 235, MD. WT. 12.3PPG., BGG 280UNITS, DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES
19:00	20:00	1.00	DRLPRL	02M	DRILLING - DRILLING - SLIDING	No	6	1	14752.00	SLIDE DRLG. 6.75" LATERAL F/ 14,701' - 14,752' (51' - 51FPH) TF: 120R, WOB: 50K, PP: 3900PSI., DIFF: 200PSI., GPM: 294, MMRPM: 235, MD. WT. 12.3PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES
20:00	20:30	0.50	DRLPRL	02D	DRILLING - MTR/TURB - DIR/HORZ	No	6	1	14796.00	ROT DRLG. 6.75" LATERAL F/ 14,752' - 14,796' (44' - 88FPH) WOB: 28K, ROT: 75, PP: 4250PSI., DIFF: 650PSI., TORQ: 12K, GPM: 294, MMRPM: 235, MD. WT. 12.3PPG., BGG 280UNITS, DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES
20:30	22:00	1.50	DRLPRL	02M	DRILLING - DRILLING - SLIDING	No	6	1	14856.00	SLIDE DRLG. 6.75" LATERAL F/ 14,796' - 14,856' (60' - 40FPH) TF: 120R, WOB: 50K, PP: 3900PSI., DIFF: 300PSI., GPM: 294, MMRPM: 235, MD. WT. 12.3PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES
22:00	22:30	0.50	DRLPRL	02D	DRILLING - MTR/TURB - DIR/HORZ	No	6	1	14891.00	ROT DRLG. 6.75" LATERAL F/ 14,856' - 14,891' (35' - 70FPH) WOB: 50K, ROT: 75, PP: 4050PSI., DIFF: 800PSI., TORQ: 12K, GPM: 216, MMRPM: 216, MD. WT. 12.3PPG., BGG 380UNITS, DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES
22:30	00:00	1.50	DRLPRL	02M	DRILLING - DRILLING - SLIDING	No	6	1	14950.00	SLIDE DRLG. 6.75" LATERAL F/ 14,891' - 14,950 (59' - 39.3FPH) TF: 100R, WOB: 50K, PP: 3900PSI., DIFF: 300PSI., GPM: 294, MMRPM: 235, MD. WT. 12.3PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES

Personnel Hours

Vendor	Vendor Type	Number Of People	Hours On Site	Total Hours
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00
NORAM DRILLING COMPANY	TOOLPUSHER	1	24.00	24.00
NORAM DRILLING COMPANY	RIG CREWS	12	24.00	288.00
AES DRILLING FLUIDS LLC	1- MAN CREW	1	24.00	24.00
PHOENIX DIRECTIONAL DRILLERS	4- MAN CREW	4	24.00	96.00
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00

Rig Information

KB Elevation: 2797.00 ft | KB To GL : 25.00 ft

Rig(s) for today : Noram 27 | Rig Manager : TOBY JOHNSON | Rig Phone : 432-219-0731

Date and Time of Rig Release : | Days From Rig Release : 0.00 | Rig Fax :

Safety

Last BOP Test(F) Date :	3/29/2018	Last BOP Pressure :	8500.000 psi	Last Lot Fit :	14.50
Last Csg Date :	3/19/2018	Last Csg Pressure :	1500.000 psi	Last Spills Reported :	
Last BOP Drill Date :	4/1/2018	Last Test MW :	12.50	Last Accidents :	
Last Fire Drill :		Last Test TVD :	11831.00 ft	Last Safety Meeting :	4/1/2018 19:00
Last Evac Drill :		Last Test Pressure :	1230.000 psi	Last Safety Meeting Topic :	FLUID TRANSFERS / MAKING CONN

Contacts

Day Sup. :	JONAS HALDEMAN	Phone :	903-571-6771	Superintendent :	SANTOS MOROLES	Phone :	432-559-4901
Night Sup. :		Phone :		Geologist :		Phone :	
Alt. Phone :				Drill. Eng. :	RICHARD HILL	Phone :	432-818-1726

Attachments

Daily Attachment Folder(s)

Daily Drilling Report P2

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 25 Report Date : 4/1/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Mud Data

Mud Engineer : BOBBY ODOM Mud Type : Oil Base Mud Polymer Type :

Chk	Time	Depth (ft)	Density (lbs/gal)	FV (s/qt)	YP (lbs/100 ft²)	PV (cP)	WL (cc/30 min)	Cl (ppm)	Electro Static Stability	Oil Ratio	H2O Ratio	HTHP Water Loss(cc/30 min)
1	23:00	14945.	12.30000	56.00	10	22.00	11.6	45000	366.0	74	26	11.6

Bit Data

Bit #	Run #	Size (in)	Mfg.	Model	IADC Code	Daily Drilled (ft)	Daily Hours	Daily ROP (ft/hr)	Cum Drilled (ft)	Cum Hrs.	Avg. ROP (ft/hr)	Depth In (ft)	Depth Out (ft)	Max WOB (M Lbs)	PSI Drop (psi)	Nozzle Velocity (ft/s)	HHP (HP)
6	1	6.750	ULTERRA	U513M		1532.0	23.00	66.61	2868.00	47.00	61.02	13418.00	14950.00	28.000	138.484	112.20	21.85

BHA Data

For Bit # : 6 Mud Motor : Total Made : 1532 ft

Total BHA Hours : 288.0 Total Hours : 23.00

BHA # : 06 DC OD : 5.000 in DP OD : 4.500 in BHA Length : 2954.95 ft BHA Weight 0.00 M Lbs

Item	Jts	Length (ft)	OD (in)	ID (in)	Coupling OD (in)	Weight (lbs/ft)	Thread Type	Pin/Box
BITS	1	1.00	6.750	0.000	0.000	0.000		Pin
MUD MOTOR	1	25.72	5.000	0.000	0.000	0.000		Box
FLOAT SUB	1	2.07	4.625	2.688	0.000	0.000		
NON- MAG COLLAR	1	7.66	4.625	2.688	0.000	0.000		Box
CROSSOVER SUB	1	1.89	5.000	3.250	0.000	0.000		Box
SUBS	1	3.42	5.000	0.000	0.000	0.000		Box
SUBS	1	8.24	5.000	0.000	0.000	0.000		Box
GAP SUB	1	3.75	5.000	0.000	0.000	0.000		Box
NON- MAG COLLAR	1	27.08	4.500	2.750	0.000	0.000		Box
CROSSOVER SUB	1	4.01	5.310	2.500	0.000	0.000		Box
DRILLPIPE	90	2839.77	4.500	2.826	0.000	0.000		Box
CROSSOVER SUB	1	4.04	5.000	3.000	0.000	0.000		Box
AGITATOR	1	22.25	4.938	0.000	0.000	0.000		Box
CROSSOVER SUB	1	4.05	5.188	2.625	0.000	0.000		Box

Drilling Parameters

Bit #	Run #	Depth (ft)	WOB (M Lbs)	RPM		GPM	Torque		String Weight			Pressure		
				Motor	Rotary		On Bom (ft lbf)	Off Bom (ft lbf)	Pick Up (lbs)	Stack Off (lbs)	Rotate (lbs)	On Bom (psi)	Off Bom (psi)	Diff Press. (psi)
6	1	14950.00	28.000	216	65	270	11000.00	1700.00	270	150	224	4000.0	3400.0	600.0

Pump Data

Bit #	Pump 1					Pump 2					Pump Pressure (psi)	AV DC (ft/min)	AV DP (ft/min)
	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)			
6	CE FB1600	12.000	5.000	93	270.380	CE FB1600	12.000	5.000	0	0.000	4000.00	322	262

Reduced Speed Pumps

Depth(ft)	Pump 1			Pump 2		
	Model	Pressure (psi)	SPM	Model	Pressure (psi)	SPM
14312.00	CE FB1600	760.0	30	CE FB1600	140.0	30
14312.00	CE FB1600	950.0	40		0.0	0
14312.00	CE FB1600	1560.0	60		0.0	0

Daily Drilling Report P3

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 25 Report Date : 4/1/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Drill Bottom Hole Targets

Bottom Hole Location	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Survey Data

Depth (ft)	Deviation	Azimuth	TVD (ft)	N/S	N/S (ft)	E/W	E/W (ft)	Vertical Section (ft)	Dog Leg
13507.00	92.04	160.0	11882.31	S	-1909.38	E	608.80	2003.44	5.04
13602.00	90.99	162.6	11879.80	S	-1999.33	E	639.22	2098.31	2.88
13696.00	91.58	165.4	11877.69	S	-2089.65	E	665.16	2192.28	2.94
13791.00	91.29	168.6	11875.31	S	-2182.16	E	686.54	2287.08	3.41
13886.00	90.87	169.0	11873.52	S	-2275.35	E	704.93	2381.70	0.61
13981.00	91.82	168.8	11871.29	S	-2368.55	E	723.17	2476.28	1.01
14076.00	91.04	164.6	11868.92	S	-2460.95	E	745.03	2571.11	4.46
14170.00	92.92	162.3	11865.67	S	-2550.99	E	771.80	2665.04	3.09
14265.00	92.49	158.8	11861.19	S	-2640.45	E	803.42	2759.77	3.68
14360.00	92.07	168.2	11857.40	S	-2731.35	E	830.37	2854.58	9.77
14455.00	91.32	164.6	11854.59	S	-2823.64	E	852.66	2949.42	3.77
14549.00	92.01	157.9	11851.86	S	-2912.57	E	882.83	3043.24	7.11
14644.00	92.63	152.1	11848.01	S	-2998.55	E	922.95	3137.01	6.03
14739.00	92.30	154.7	11843.92	S	-3083.41	E	965.44	3230.36	2.73
14834.00	91.69	157.5	11840.61	S	-3170.19	E	1003.92	3324.44	2.93

Hook Loads

Up : 270

Down : 150

Rotating : 224

Torque : 0 Amps

Torque : 11000.00 ft lbf

Comments

UL 20 STRIPES 38-47 602H

RIG MOBILIZATION BEGAN - 03/08/2018 @ 00:00 HRS.
SPUD WELL @ 00:00 HRS ON 03/12/2018
(96 HR RIG MOVE, NO DIVERTER)

TOTAL HRS FROM SPUD: 504 HRS (21 DAYS)

NOTIFIED TRRC FOR SPUD @ 11:45 HRS 03/10/2018 (OPERATOR #2 AUDREY)
NOTIFIED TRRC FOR SURFACE CSG & CEMENT W/ TRRC JOB #2 AUDREY @ 1145 HRS 03/10/2018
NOTIFIED TRRC FOR INTERMEDIATE CSG & CMT, JOB # (OPERATOR #4 DIANA) @ 02:07 HRS 03/17/2018, DIANA OPERATOR #4.
NOTIFIED TRRC FOR 2ND INTERMEDIATE CMT, JOB # XXX @ 00:53 HRS, 03/27/2018, DIANA OPERATOR #4

LAST 5" DP INSP. (Red river) CAT- 4 W/ SHEAR WAVE – 03/08/2018.
421 jts kept w/Rig
33 jts sent to fishing tools
128 jts sent to NorAm yard
7 jts. down grade to Energen yd
Sent 16 jts & 1 lift sub to fishing tools

CLEAN/VISUAL INSPECT 742 JTS 4 1/2" DS-42, XX-XX-2018, XXX INSPECTION
742 JTS ACCEPTED BOTH ENDS AS PREMIUM

DAYS SINCE LAST LTA: (XXX DAYS):
CREW SHORTAGES (LAST 24HRS / TOTAL HRS): NO/NO
CREW DOUBLES (LAST 24 HRS / TOTAL HRS): NO/NO

DOWN TIME HRS (LAST 24HRS / TOTAL HRS): 0.0/ 3.5

NON PRODUCTIVE TIME (LAST 24HRS / TOTAL HRS): 0/31.5

OBM LOST TO WELL (LAST 24 HRS / TOTAL BBLS): 00 - BBLS / 00- BBL
OBM LOST: 0- BBLS TO FORMATION
OBM LOST: 0-BBLS TO CUTTINGS

13-3/8" 61# HCK-55 BTC SURFACE SET AT 437'
10-3/4"45.5# HCN-80 BTC INTERMEDIATE SET AT 4962'
7-5/8" 29.7# HCP-110 BTC SECOND INTERMEDIATE SET @ 12,072' MD, 11,831' TVD

LATERAL #1
BHA #6 CONSISTING OF: 6.75" ULTERRA U513 JETTED WITH 7 x 12'S = .7731 TFA // 5" PHOENIX 1.83 FBH MTR. (6/7LOBE, 6.4 STG., .80 RPG)(MOTOR BORED FOR FLOAT) // FLOAT SUB // 4.75" NMPC // 5" MWD VELOCITY // 4.5" SLICK NMDC // XO SUB // 90-JTS. OF 4.5"DP // XO SUB // SS/AGITATOR // XO SUB // TOTAL BHA = 2954.95'. DEPTH IN: 12,072' // DEPTH OUT: XXX' // FTG DRILLED: XXX' // TOTAL DRLG HRS: XXX // TOTAL MTR. HRS: XX // ROP: XXX FPH // REASON PULLED: XXX // BIT GRADE = X-X-XX
MWD O/S SCRIBE: DAO:7.6DEG

CURVE #1
BHA #5 CONSISTING OF: 9.875" ULTERRA CF613 JETTED WITH 3 x16'S x 3 x 18'S = 1.33 TFA // 7.75" PHOENIX MTR. 2.38° ADJ., (4/5LOBE, 5.3 STG., .253 REV/GAL) // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC // 1- XO SUB // 36-JTS. OF 5"DP // 15JTS. 5" HWDP // TOTAL BHA = 1678.92' // DEPTH IN: 11,120' // DEPTH OUT: 12082" // FTG DRILLED: 962' // TOTAL DRLG HRS: 28.5 // TOTAL MTR. HRS: 28.5 // ROP: 33.7 FPH // REASON PULLED: CSG POINT // BIT GRADE = 2-2-IG

INTERMEDIATE #2
BHA #4: 9.875" ULTERRA CF716 JETTED WITH 7 x14'S = 1.05 TFA // 7.75" PHOENIX MTR. 1.5° ADJ., (7/8LOBE, 4.0 STG., .166 REV/GAL) // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15JTS. 5" HWDP // TOTAL BHA = 1016.04' // DEPTH IN: 9398' // DEPTH OUT: 11,120' // FTG DRILLED: 1722' // TOTAL DRLG HRS: 53 // TOTAL MTR. HRS: 54.5 // ROP: 32 FPH // REASON PULLED: CHANGE BHA // BIT GRADE = 1-1-CT-S--I-CT-BHA

INTERMEDIATE #2
BHA #3: 9.875" ULTERRA 616M, W/6x16's TFA: 1.1781 // PHOENIX MTR 7.75", 7/8 4.0,1.5° BENT SLICK SLEEVE. 0.166 RPG - // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15 JTS 5" HWDP// TOTAL BHA = 1016.33' // DEPTH IN: 4967' // DEPTH OUT: 9398' // FTG DRILLED: 4431' // TOTAL DRLG HRS: 51 // TOTAL MTR HRS: 52.5 // ROP: 86FPH // REASON PULLED: LOW R.O.P.// BIT GRADE = 4-2-BT-N--I-RO-PR

INTERMEDIATE #1
BHA #2: 12.25" ULTERRA CF616S, W/6x16's TFA: 1.1781 // PHOENIX MTR 7.75", 7/8 4.0,1.5° BENT STAB. 0.166 RPG - // 11.75" NORTRAK STAB // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 11.75 NORTRAK STAB // 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15 JTS 5" HWDP // TOTAL BHA = 1026.98' // DEPTH IN: 450' // DEPTH OUT: 4967' // FTG. DRILLED: 4517' // TOTAL DRLG. HRS.: 59.5 // TOTAL MTR. HRS: 60.5 // AVG. ROP: 81' FPH // REASON PULLED: TD / CSG. POINT // 1-1-CT-N-I-NO-TD

SURFACE #1
BHA #1: 17.5" ULTERRA U616S, W/9x16's TFA: 1.767 // TDI DIRECTIONAL MTR 9-5/8", 5/6 4.0,1.5° BENT SLICK 0.107 RPG - // IBS // MWD EXTREME // UBHO // 8" NMDC //17.25" NM IBS//8" NMDC//FILTER SUB// 8" SHOCK SUB // 12 - 8" DC // 1- XO SUBS //12- JTS 6.5" DC//XO// 15 JTS HWDP// TOTAL BHA = 1305.77 // DEPTH IN: 145' // DEPTH OUT: 450' // FTG. DRILLED: 305' // TOTAL DRLG HRS: 8 // TOTAL MTR. HRS: 11 // ROP: 38.1' FPH // REASON PULLED: CSG POINT // 1/1 BIT GRADE: 1-1-NO-A-I-NO-TD

STARTING RIG FUEL - 3200 GALLONS TRANSFERRED IN .

DIESEL USAGE:
RIG FUEL (DAILY/TOTAL): 1473/36601 GALS
MUD DIESEL (DAILY/TOTAL 3100/ 6350 GALS
AUXILIARY EQUIPMENT (DAILY/TOTAL): 222/ 1799 GALS
CERTARUS GAS (DAILY/TOTAL) 777.61 / 7784.43

NO LEAKS OR SPILLS REPORTED OR OBSERVED

Solids Removal

Shakers

Shaker #	Bottom	Middle	Top

Other Solids Removal Equipment

Item	Hrs Run	Intake Density (lbs/gal)	Overflow Density (lbs/gal)	Underflow Density (lbs/gal)

Mud Log

Formation :	Wolfcamp A Shale				
Background Gas :	450	Connection Gas :	750	Flare Length :	
Trip Calc :					

Well Incident

Report # :		Incident Date :		Report Date :	
Problem Name :					

Daily Drilling Report P1

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 32 Report Date : 4/8/2018

Financials

Daily Cost : $63,159 Cost to Date : $3,139,461

AFE # : PB18100003

AFE : $10,772,650 AFE Cost to Date : $3,139,461

Operations

Event Objective : Noram 27 D&C DB DEV WC A Event Sub Type : Drilling Prod

A.M. Ops : 0000 - 0600 HRS: SLIDE DRLG F/19,657' - 19,673', ROT DRLG F/19,673' - 19,834', SLIDE DRLG F/19,834' - 19,845'(172' @ 28.7FPH)

Ops Forecast : DRILL 6-3/4" LATERAL AS PER PLAN #5 TO 21,623'. FOOTAGE LEFT TO DRILL:1966'

24hr. Summary : ROT/SLIDE DRLG F/19075' - 19423', R/S, ROT/SLIDE DRLG F/19423' - 19,619', SLIDE F/19,619' - 19,626', MADE 3 STD WIPER TRIP, ATTEMPT TO SLIDE @ 19,626', ROT TO 19,643', SLIDE DRLG F/19,643 - 19,657'.

Planning Status :

Elevations

GL 2772.00 ft Reserve Pit Freeboard : 0.00 ft

Progress

Days from Spud : 27 Progress : 582.00 ft MD at Report Time : 19657.00 ft

Rig on Location (days) : 32 Est. TD : 21672.00 ft TVD At Report Time : 11681.00 ft

Event Dates

Spud Date	Spud Time	Suspended Drilling Date	Resume Drilling Date	Total Depth Date	Total Depth Time	Finished Drilling Date	Finished Drilling Time	Rig Released Date	Rig Released Time
3/12/2018	00:00								

Time Breakdown

Start Time : 00:00 Initial Depth : 0.00 ft Drilling Hours : 22.50 Total Drilling Hours : 400.00 Total Hours : 24.00 Time Code :

Drilling % : 93.75 Rotating % : 53.33 Sliding % : 46.67

Start Time	End Time	Hours	Phase	Activity Time Code	Activity Description	NPT	Bit #	Run #	Depth (ft)	Remarks
00:00	01:30	1.50	DRLPRL	02D	DRILLING - MTR/TURB - DIR/HORZ	No	7	1	19155.00	ROT DRLG. 6 - 3/4" LATERAL F/ 19, 075' - 19, 155'(80' - 53. 3FPH) WOB: 22K, ROT: 70, PP: 5050PSI., DIFF: 850PSI., TORQ: 16K, GPM: 295, MMRPM: 235, MD. WT. 12. 8PPG., BGG 150 - 450UNITS, DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES.
01:30	04:30	3.00	DRLPRL	02M	DRILLING - DRILLING - SLIDING	No	7	1	19185.00	SLIDE DRLG 6 - 3/4" LATERAL F/ 19, 155' - 19, 185' (30' - 10FPH) GTF: 60L, WOB: 45 - 55K, PP: 4100 PSI., DIFF: 250PSI., GPM: 294, MMRPM: 235, MD. WT. 12. 8PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES.
04:30	08:00	3.50	DRLPRL	02D	DRILLING - MTR/TURB - DIR/HORZ	No	7	1	109344.0(	ROT DRLG. 6 - 3/4" LATERAL F/ 19, 185' - 19, 344' (159' - 45FPH) WOB: 22K, ROT: 70, PP: 5050PSI., DIFF: 850PSI., TORQ: 16K, GPM: 295, MMRPM: 235, MD. WT. 12. 8PPG., BGG 150 - 450UNITS, DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES.
08:00	11:00	3.00	DRLPRL	02M	DRILLING - DRILLING - SLIDING	No	7	1	19360.00	SLIDE DRLG 6 - 3/4" LATERAL F/ 19, 344' - 19, 360' (16' - 5. 3FPH) GTF: 160R, WOB: 45 - 55K, PP: 4100 PSI., DIFF: 250PSI., GPM: 294, MMRPM: 235, MD. WT. 12. 8PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES.
11:00	12:30	1.50	DRLPRL	02D	DRILLING - MTR/TURB - DIR/HORZ	No	7	1	19423.00	ROT DRLG. 6 - 3/4" LATERAL F/ 19, 360' - 19, 423' (63' - 42FPH) WOB: 22K, ROT: 70, PP: 5050PSI., DIFF: 850PSI., TORQ: 16K, GPM: 295, MMRPM: 235, MD. WT. 12. 8PPG., BGG 150 - 450UNITS, DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES.
12:30	13:00	0.50	DRLPRL	10A	LUB RIG - DAILY SERVICE	No	7	1	19423.00	RIG SERVICE
13:00	18:00	5.00	DRLPRL	02D	DRILLING - MTR/TURB - DIR/HORZ	No	7	1	19619.00	ROT DRLG. 6 - 3/4" LATERAL F/ 19, 423' - 19, 619' (196' - 39. 2FPH) WOB: 24K, ROT: 75, PP: 5100PSI., DIFF: 800PSI., TORQ: 16K, GPM: 295, MMRPM: 235, MD. WT. 12. 8PPG., BGG 150 - 450UNITS, DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES.
18:00	19:00	1.00	DRLPRL	02M	DRILLING - DRILLING - SLIDING	No	7	1	19626.00	SLIDE DRLG 6 - 3/4" LATERAL F/ 19, 619' - 19, 626' (7' - 7FPH) GTF: 140R, WOB: 60K, PP: 4300 PSI., DIFF: 100PSI., GPM: 294, MMRPM: 235, MD. WT. 12. 8PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES. HAVING TROUBLE GETTING SLIDE IN, STACKING WOB.
19:00	20:00	1.00	DRLPRL	08E	TRIPPING - WIPER	No	7	1	19626.00	MADE 3 STD WIPER TRIP TO 19345', P/ U WT: 300K, W/ R BACK TO BTM.
20:00	21:00	1.00	DRLPRL	02M	DRILLING - DRILLING - SLIDING	Yes	7	1	19626.00	ATTEMPT TO SLIDE @ 19, 626', COULD NOT GET TO BOTTOM.
21:00	21:30	0.50	DRLPRL	02D	DRILLING - MTR/TURB - DIR/HORZ	No	7	1	19643.00	ROT DRLG. 6 - 3/4" LATERAL F/ 19, 626' - 19, 643' (17' - 34FPH) WOB: 22K, ROT: 75, PP: 5100PSI., DIFF: 800PSI., TORQ: 16K, GPM: 295, MMRPM: 235, MD. WT. 12. 8PPG., BGG 150 - 450UNITS, DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES.
21:30	00:00	2.50	DRLPRL	02M	DRILLING - DRILLING - SLIDING	No	7	1	19657.00	SLIDE DRLG 6 - 3/4" LATERAL F/ 19, 643' - 19, 657' (14' - 5. 6FPH) GTF: 70L, WOB: 45 - 50K, PP: 4500 PSI., DIFF: 450PSI., GPM: 294, MMRPM: 235, MD. WT. 12. 8PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES. P/ U TO 19, 626', W/ R TO 19, 639', CIRC W/ O ROT, LET STRING RELAX 10 MIN, LINED UP TF WHILE SLACKING OFF, TF LINED UP, WENT TO SLIDE DRLG.

Personnel Hours

Vendor	Vendor Type	Number Of People	Hours On Site	Total Hours
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00
NORAM DRILLING COMPANY	TOOLPUSHER	1	24.00	24.00
NORAM DRILLING COMPANY	RIG CREWS	12	24.00	288.00
AES DRILLING FLUIDS LLC	1- MAN CREW	1	24.00	24.00
PHOENIX DIRECTIONAL DRILLERS	4- MAN CREW	4	24.00	96.00
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00

Rig Information

KB Elevation:	2797.00 ft	KB To GL :	25.00 ft		
Rig(s) for today :	Noram 27	Rig Manager :	TOBY JOHNSON	Rig Phone :	432-219-0731
Date and Time of Rig Release :		Days From Rig Release :	0.00	Rig Fax :	

Safety

Last BOP Test(F) Date :	3/29/2018	Last BOP Pressure :	8500.000 psi	Last Lot Fit :	14.50
Last Csg Date :	3/19/2018	Last Csg Pressure :	1500.000 psi	Last Spills Reported :	
Last BOP Drill Date :	4/1/2018	Last Test MW :	12.50	Last Accidents :	
Last Fire Drill :		Last Test TVD :	11831.00 ft	Last Safety Meeting :	4/3/2018 00:00
Last Evac Drill :		Last Test Pressure :	1230.000 psi	Last Safety Meeting Topic :	HOUSE KEEPING

Contacts

Day Sup. :	WAYLON TRAMMELL	Phone :		Superintendent :	SANTOS MOROLES	Phone :	432-559-4901
Night Sup. :	MIKE PEAVEY	Phone :	318-623-4684	Geologist :		Phone :	
Alt. Phone :				Drill. Eng. :	RICHARD HILL	Phone :	432-818-1726

Attachments

Daily Attachment Folder(s)

Daily Drilling Report P2

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 32 Report Date : 4/8/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Mud Data

Mud Engineer : CHRIS GANEY Mud Type : Oil Base Mud Polymer Type :

Chk	Time	Depth (ft)	Density (lbs/gal)	FV (s/qt)	YP (lbs/100 ft²)	PV (cP)	WL (cc/30 min)	Cl (ppm)	Electro Static Stability	Oil Ratio	H2O Ratio	HTHP Water Loss(cc/30 min)
1	23:00	19643.	12.80000	64.00	14	25.00	4.8	25841	384.0	75	25	4.8

Bit Data

Bit #	Run #	Size (in)	Mfg.	Model	IADC Code	Daily Drilled (ft)	Daily Hours	Daily ROP (ft/hr)	Cum Drilled (ft)	Cum Hrs.	Avg. ROP (ft/hr)	Depth In (ft)	Depth Out (ft)	Max WOB (M Lbs)	PSI Drop (psi)	Nozzle Velocity (ft/s)	HHP (HP)
6	1	6.750	ULTERRA	U513M		0.00	0.00	0.00	5145.00	103.50	49.71	12082.00	17247.00	27.000	169.973	121.85	29.13
7	1	6.750	ULTERRA	U513M		582.00	22.50	25.87	2410.00	68.50	35.18	17247.00	19657.00	0.000	0.000	0.00	0.00

BHA Data

For Bit # : 6 Mud Motor : Total Made : 5165 ft

Total BHA Hours : 422.5 Total Hours : 0.00

BHA # : 06 DC OD : 4.500 in DP OD : 4.500 in BHA Length : 2954.95 ft BHA Weight 0.00 M Lbs

Item	Jts	Length (ft)	OD (in)	ID (in)	Coupling OD (in)	Weight (lbs/ft)	Thread Type	Pin/Box
BITS	1	1.00	6.750	0.000	0.000	0.000		Pin
MUD MOTOR	1	25.72	5.000	0.000	0.000	0.000		Box
FLOAT SUB	1	2.07	4.625	2.688	0.000	0.000		
NON- MAG COLLAR	1	7.66	4.625	2.688	0.000	0.000		Box
CROSSOVER SUB	1	1.89	5.000	3.250	0.000	0.000		Box
SUBS	1	3.42	5.000	0.000	0.000	0.000		Box
SUBS	1	8.24	5.000	0.000	0.000	0.000		Box
GAP SUB	1	3.75	5.000	0.000	0.000	0.000		Box
NON- MAG COLLAR	1	27.08	4.500	2.750	0.000	0.000		Box
CROSSOVER SUB	1	4.01	5.310	2.500	0.000	0.000		Box
DRILLPIPE	90	2839.77	4.500	2.826	0.000	0.000		Box
CROSSOVER SUB	1	4.04	5.000	3.000	0.000	0.000		Box
AGITATOR	1	22.25	4.938	0.000	0.000	0.000		Box
CROSSOVER SUB	1	4.05	5.188	2.625	0.000	0.000		Box

Drilling Parameters

Bit #	Run #	Depth (ft)	WOB (M Lbs)	RPM		GPM	Torque		String Weight			Pressure		
				Motor	Rotary		On Bom (ft lbf)	Off Bom (ft lbf)	Pick Up (lbs)	Stack Off (lbs)	Rotate (lbs)	On Bom (psi)	Off Bom (psi)	Diff Press. (psi)
6	1	0.00	27.000	235	75	295	15000.00	8000.00	280	50	205	5200.0	4200.0	1000.0

Pump Data

Bit #	Pump 1					Pump 2					Pump Pressure (psi)	AV DC (ft/min)	AV DP (ft/min)
	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)			
6	CE FB1600	12.000	5.000	101	293.639	CE FB1600	12.000	5.000	0	0.000	5200.00	284	284
7		0.000	0.000	0	0.000		0.000	0.000	0	0.000	0.00	0	0

Reduced Speed Pumps

Depth(ft)	Pump 1			Pump 2		
	Model	Pressure (psi)	SPM	Model	Pressure (psi)	SPM
0.00	CE FB1600	1120.0	30	CE FB1600	140.0	30
0.00	CE FB1600	1320.0	40		0.0	0
0.00	CE FB1600	2000.0	60		0.0	0

Daily Drilling Report P3

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 32 Report Date : 4/8/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Drill Bottom Hole Targets

Bottom Hole Location	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Survey Data

Depth (ft)	Deviation	Azimuth	TVD (ft)	N/S	N/S (ft)	E/W	E/W (ft)	Vertical Section (ft)	Dog Leg
19093.00	90.73	157.7	11694.96	S	-7275.41	E	2087.75	7568.98	3.15
19188.00	94.19	160.7	11690.89	S	-7364.12	E	2121.42	7663.57	4.72
19282.00	94.27	159.8	11683.95	S	-7452.33	E	2153.14	7757.13	1.00
19377.00	89.64	158.8	11680.71	S	-7541.09	E	2186.77	7851.75	4.91
19472.00	90.72	159.8	11680.41	S	-7629.95	E	2220.38	7946.46	1.57
19566.00	88.44	158.9	11681.10	S	-7717.91	E	2253.49	8040.17	2.56

Hook Loads

Up :	280	
Down :	50	
Rotating :	205	
Torque :	0	Amps
Torque :	16000.00	ft lbf

Comments

UL 20 STRIPES 38-47 602H

RIG MOBILIZATION BEGAN - 03/08/2018 @ 00:00 HRS.
SPUD WELL @ 00:00 HRS ON 03/12/2018
(96 HR RIG MOVE, NO DIVERTER)

TOTAL HRS FROM SPUD: 672 HRS (28 DAYS)

NOTIFIED TRRC FOR SPUD @ 11:45 HRS 03/10/2018 (OPERATOR #2 AUDREY)
NOTIFIED TRRC FOR SURFACE CSG & CEMENT W/ TRRC JOB #2 AUDREY @ 1145 HRS 03/10/2018
NOTIFIED TRRC FOR INTERMEDIATE CSG & CMT, JOB #124881 (OPERATOR #4 DIANA) @ 02:07 HRS 03/17/2018, DIANA OPERATOR #4.
NOTIFIED TRRC FOR 2ND INTERMEDIATE CMT, JOB # 124881 @ 00:53 HRS, 03/27/2018, DIANA OPERATOR #4

LAST 5" DP INSP. (Red river) CAT- 4 W/ SHEAR WAVE – 03/08/2018.
421 jts kept w/Rig
33 jts sent to fishing tools
128 jts sent to NorAm yard
7 jts. down grade to Energen yd
Sent 16 jts & 1 lift sub to fishing tools

CLEAN/VISUAL INSPECT 742 JTS 4 1/2" DS-42, XX-XX-2018, XXX INSPECTION
742 JTS ACCEPTED BOTH ENDS AS PREMIUM

BHA INSPECTED 04/02/18 - HAD 3 BAD 5" HWDP, 1 BAD 6.5" DC

DAYS SINCE LAST LTA: (XXX DAYS):
CREW SHORTAGES (LAST 24HRS / TOTAL HRS): NO/NO
CREW DOUBLES (LAST 24 HRS / TOTAL HRS): NO/NO

DOWN TIME HRS (LAST 24HRS / TOTAL HRS): 0.0/ 3.5
NON PRODUCTIVE TIME (LAST 24HRS / TOTAL HRS): 0/31.5

OBM LOST TO WELL (LAST 24 HRS / TOTAL BBLS): 00 - BBLS / 00- BBL
OBM LOST: 0- BBLS TO FORMATION
OBM LOST: 0-BBLS TO CUTTINGS

13-3/8" 61# HCK-55 BTC SURFACE SET AT 437'
10-3/4"45.5# HCN-80 BTC INTERMEDIATE SET AT 4962'
7-5/8" 29.7# HCP-110 BTC SECOND INTERMEDIATE SET @ 12,072' MD, 11,831' TVD

LATERAL #1
BHA #7 CONSISTING OF: 6.75" ULTERRA U513 JETTED WITH 7 x 12'S = .7731 TFA // 5" PHOENIX 1.83 FBH MTR. (6/7LOBE, 6.4 STG., .80 RPG)(MOTOR BORED FOR FLOAT) // FLOAT SUB // 4.75" NMPC // 5" MWD VELOCITY // 4.5" SLICK NMDC // XO SUB // 120-JTS. OF 4.5"DP // XO SUB // SS/AGITATOR // XO SUB // TOTAL BHA = 3901.52'. DEPTH IN: 17,247' // DEPTH OUT: XXX' // FTG DRILLED: XXXX' // TOTAL DRLG HRS: XXX // TOTAL MTR. HRS: XXX // ROP: XXX FPH // REASON PULLED: ROP // BIT GRADE = X-X-XX
MWD O/S SCRIBE: DAO:102.2DEG

LATERAL #1
BHA #6 CONSISTING OF: 6.75" ULTERRA U513 JETTED WITH 7 x 12'S = .7731 TFA // 5" PHOENIX 1.83 FBH MTR. (6/7LOBE, 6.4 STG., .80 RPG)(MOTOR BORED FOR FLOAT) // FLOAT SUB // 4.75" NMPC // 5" MWD VELOCITY // 4.5" SLICK NMDC // XO SUB // 90-JTS. OF 4.5"DP // XO SUB // SS/AGITATOR // XO SUB // TOTAL BHA = 2954.95'. DEPTH IN: 12,072' // DEPTH OUT: 17,247' // FTG DRILLED: 5165' // TOTAL DRLG HRS: 103.5 // TOTAL MTR. HRS: 103.5 // ROP: 49.7 FPH // REASON PULLED: ROP // BIT GRADE = 7-1
MWD O/S SCRIBE: DAO:7.6DEG

CURVE #1
BHA #5 CONSISTING OF: 9.875" ULTERRA CF613 JETTED WITH 3 x16'S x 3 x 18'S = 1.33 TFA // 7.75" PHOENIX MTR. 2.38° ADJ., (4/5LOBE, 5.3 STG., .253 REV/GAL) // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC // 1- XO SUB // 36-JTS. OF 5"DP // 15JTS. 5" HWDP // TOTAL BHA = 1678.92' // DEPTH IN: 11,120' // DEPTH OUT: 12082" // FTG DRILLED: 962' // TOTAL DRLG HRS: 28.5 // TOTAL MTR. HRS: 28.5 // ROP: 33.7 FPH // REASON PULLED: CSG POINT // BIT GRADE = 2-2-IG

INTERMEDIATE #2
BHA #4: 9.875" ULTERRA CF716 JETTED WITH 7 x14'S = 1.05 TFA // 7.75" PHOENIX MTR. 1.5° ADJ., (7/8LOBE, 4.0 STG., .166 REV/GAL) // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15JTS. 5" HWDP // TOTAL BHA = 1016.04' // DEPTH IN: 9398' // DEPTH OUT: 11,120' // FTG DRILLED: 1722' // TOTAL DRLG HRS: 53 // TOTAL MTR. HRS: 54.5 // ROP: 32 FPH // REASON PULLED: CHANGE BHA // BIT GRADE = 1-1-CT-S--I-CT-BHA

INTERMEDIATE #2
BHA #3: 9.875" ULTERRA 616M, W/6x16's TFA: 1.1781 // PHOENIX MTR 7.75", 7/8 4.0,1.5° BENT SLICK SLEEVE. 0.166 RPG - // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15 JTS 5" HWDP// TOTAL BHA = 1016.33' // DEPTH IN: 4967' // DEPTH OUT: 9398' // FTG DRILLED: 4431' // TOTAL DRLG HRS: 51 // TOTAL MTR HRS: 52.5 // ROP: 86FPH // REASON PULLED: LOW R.O.P.// BIT GRADE = 4-2-BT-N--I-RO-PR

INTERMEDIATE #1
BHA #2: 12.25" ULTERRA CF616S, W/6x16's TFA: 1.1781 // PHOENIX MTR 7.75", 7/8 4.0,1.5° BENT STAB. 0.166 RPG - // 11.75" NORTRAK STAB // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 11.75 NORTRAK STAB // 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15 JTS 5" HWDP // TOTAL BHA = 1026.98' // DEPTH IN: 450' // DEPTH OUT: 4967' // FTG. DRILLED: 4517' // TOTAL DRLG. HRS.: 59.5 // TOTAL MTR. HRS: 60.5 // AVG. ROP: 81' FPH // REASON PULLED: TD / CSG. POINT // 1-1-CT-N-I-NO-TD

SURFACE #1
BHA #1: 17.5" ULTERRA U616S, W/9x16's TFA: 1.767 // TDI DIRECTIONAL MTR 9-5/8", 5/6 4.0,1.5° BENT SLICK 0.107 RPG - // IBS // MWD EXTREME // UBHO // 8" NMDC //17.25" NM IBS//8" NMDC//FILTER SUB// 8" SHOCK SUB // 12 - 8" DC // 1- XO SUBS //12- JTS 6.5" DC//XO// 15 JTS HWDP// TOTAL BHA = 1305.77 // DEPTH IN: 145' // DEPTH OUT: 450' // FTG. DRILLED: 305' // TOTAL DRLG HRS: 8 // TOTAL MTR. HRS: 11 // ROP: 38.1' FPH // REASON PULLED: CSG POINT // 1/1 BIT GRADE: 1-1-NO-A-I-NO-TD

STARTING RIG FUEL - 3200 GALLONS TRANSFERRED IN .

DIESEL USAGE:
RIG FUEL (DAILY/TOTAL): 1465/47338 GALS
MUD DIESEL (DAILY/TOTAL 2400/ 22550/GALS
AUXILIARY EQUIPMENT (DAILY/TOTAL): 18/ 3186 GALS
CERTARUS GAS (DAILY/TOTAL) 879 / 11077.09

NO LEAKS OR SPILLS REPORTED OR OBSERVED

Solids Removal

Shakers

Shaker #	Bottom	Middle	Top

Other Solids Removal Equipment

Item	Hrs Run	Intake Density (lbs/gal)	Overflow Density (lbs/gal)	Underflow Density (lbs/gal)

Mud Log

Formation : Wolfcamp A Shale

Background Gas : 306 Connection Gas : 807 Flare Length :

Trip Calc :

Well Incident

Report # : Incident Date : Report Date :

Problem Name :

Daily Drilling Report P1

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 33 Report Date : 4/9/2018

Financials

Daily Cost : $79,579 Cost to Date : $3,230,941

AFE # : PB18100003

AFE : $10,772,650 AFE Cost to Date : $3,230,941

Operations

Event Objective : Noram 27 D&C DB DEV WC A Event Sub Type : Drilling Prod

A.M. Ops : 0000 - 0600 HRS:HRS: ROT & SLIDE DRLG F/20,430' - 20,672' (242' @ 40FPH)

Ops Forecast : DRILL 6-3/4" LATERAL AS PER PLAN #5 TO 21,623'. FOOTAGE LEFT TO DRILL:1193'

24hr. Summary : ROT/SLIDE DRLG F/19,657' - 20,430'(773' @ 32.9FPH), 23-1/2 HRS.

Planning Status :

Elevations

GL 2772.00 ft Reserve Pit Freeboard : 0.00 ft

Progress

Days from Spud : 28 Progress : 773.00 ft MD at Report Time : 20430.00 ft

Rig on Location (days) : 33 Est. TD : 21672.00 ft TVD At Report Time : 11658.00 ft

Event Dates

Spud Date	Spud Time	Suspended Drilling Date	Resume Drilling Date	Total Depth Date	Total Depth Time	Finished Drilling Date	Finished Drilling Time	Rig Released Date	Rig Released Time
3/12/2018	00:00								

Time Breakdown

Start Time : 00:00 Initial Depth : 0.00 ft Drilling Hours : 23.50 Total Drilling Hours : 395.00 Total Hours : 24.00 Time Code :

Drilling % : 97.92 Rotating % : 59.57 Sliding % : 40.43

Start Time	End Time	Hours	Phase	Activity Time Code	Activity Description	NPT	Bit #	Run #	Depth (ft)	Remarks
00:00	01:30	1.50	DRLPRL	02M	DRILLING - DRILLING - SLIDING	No	7	1	19673.00	SLIDE DRLG 6- 3/4" LATERAL F/ 19, 657' - 19, 673 (16' - 10.6FPH) GTF: 70L, WOB: 45 - 50K, PP: 4500 PSI., DIFF: 400PSI., GPM: 294, MMRPM: 235, MD. WT. 12. 8PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES.
01:30	04:30	3.00	DRLPRL	02D	DRILLING - MTR/TURB - DIR/HORZ	No	7	1	19835.00	ROT DRLG. 6 - 3/4" LATERAL F/ 19, 673' - 19, 835'(162' - 54FPH) WOB: 24K, ROT: 75 PP: 5100PSI., DIFF: 800PSI., TORQ: 16K, GPM: 295, MMRPM: 235, MD. WT. 12. 8PPG., BGG 150 - 450UNITS, DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES.
04:30	06:00	1.50	DRLPRL	02M	DRILLING - DRILLING - SLIDING	No	7	1	19849.00	SLIDE DRLG 6- 3/4" LATERAL F/ 19, 835' - 19, 849'(14' - 9.3FPH) GTF: 30R, WOB: 45 - 75K, PP: 4500 PSI., DIFF: 400PSI., GPM: 294, MMRPM: 235, MD. WT. 12. 8PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES.
06:00	07:30	1.50	DRLPRL	02D	DRILLING - MTR/TURB - DIR/HORZ	No	7	1	19935.00	ROT DRLG. 6 - 3/4" LATERAL F/ 19, 849' - 19, 935'(86' - 57FPH) WOB: 24K, ROT: 75 PP: 5100PSI., DIFF: 800PSI., TORQ: 16K, GPM: 295, MMRPM: 235, MD. WT. 12. 8PPG., BGG 150 - 450UNITS, DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES.
07:30	11:30	4.00	DRLPRL	02M	DRILLING - DRILLING - SLIDING	No	7	1	19957.00	SLIDE DRLG 6- 3/4" LATERAL F/ 19, 935' - 19, 957' (22' - 5.5FPH) GTF: 30R, WOB: 45 - 75K, PP: 4500 PSI., DIFF: 400PSI., GPM: 294, MMRPM: 235, MD. WT. 12. 8PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES.
11:30	13:30	2.00	DRLPRL	02D	DRILLING - MTR/TURB - DIR/HORZ	No	7	1	20086.00	ROT DRLG. 6 - 3/4" LATERAL F/ 19, 957' - 20, 086' (129' - 64.5FPH) WOB: 24K, ROT: 75 PP: 5100PSI., DIFF: 800PSI., TORQ: 16K, GPM: 295, MMRPM: 235, MD. WT. 12. 8PPG., BGG 150 - 450UNITS, DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES.
13:30	14:00	0.50	DRLPRL	10A	LUB RIG - DAILY SERVICE	No	7	1	20086.00	LUBRICATE RIG
14:00	19:30	5.50	DRLPRL	02D	DRILLING - MTR/TURB - DIR/HORZ	No	7	1	20290.00	ROT DRLG. 6 - 3/4" LATERAL F/ 20, 086' - 20, 290' (204' - 37FPH) WOB: 16K, ROT: 75 PP: 4950PSI., DIFF: 450PSI., TORQ: 14K, GPM: 295, MMRPM: 235, MD. WT. 12. 8PPG., BGG 150 - 450UNITS, DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES.
19:30	22:00	2.50	DRLPRL	02M	DRILLING - DRILLING - SLIDING	No	7	1	20309.00	SLIDE DRLG 6- 3/4" LATERAL F/ 20, 290' - 20, 309' (19' - 7.6FPH) GTF: 30R, WOB: 45 - 75K, PP: 4350 PSI., DIFF: 100PSI., GPM: 294, MMRPM: 235, MD. WT. 12. 8PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES.
22:00	00:00	2.00	DRLPRL	02D	DRILLING - MTR/TURB - DIR/HORZ	No	7	1	20430.00	ROT DRLG. 6 - 3/4" LATERAL F/ 20, 309' - 20, 430' (121' - 60.5FPH) WOB: 20K, ROT: 75 PP: 5250PSI., DIFF: 950PSI., TORQ: 15K, GPM: 295, MMRPM: 235, MD. WT. 12. 8PPG., BGG 100 - 150UNITS, DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES.

Personnel Hours

Vendor	Vendor Type	Number Of People	Hours On Site	Total Hours
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00
NORAM DRILLING COMPANY	TOOLPUSHER	1	24.00	24.00
NORAM DRILLING COMPANY	RIG CREWS	12	24.00	288.00
AES DRILLING FLUIDS LLC	1- MAN CREW	1	24.00	24.00
PHOENIX DIRECTIONAL DRILLERS	4- MAN CREW	4	24.00	96.00

ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00

Rig Information

KB Elevation:	2797.00 ft	KB To GL :	25.00 ft		
Rig(s) for today :	Noram 27	Rig Manager :	TOBY JOHNSON	Rig Phone :	432-219-0731
Date and Time of Rig Release :		Days From Rig Release :	0.00	Rig Fax :	

Safety

Last BOP Test(F) Date :	3/29/2018	Last BOP Pressure :	8500.000 psi	Last Lot Fit :	14.50
Last Csg Date :	3/19/2018	Last Csg Pressure :	1500.000 psi	Last Spills Reported :	
Last BOP Drill Date :	4/9/2018	Last Test MW :	12.50	Last Accidents :	
Last Fire Drill :		Last Test TVD :	11831.00 ft	Last Safety Meeting :	4/3/2018 00:00
Last Evac Drill :		Last Test Pressure :	1230.000 psi	Last Safety Meeting Topic :	HOUSE KEEPING

Contacts

Day Sup. :	WAYLON TRAMMELL	Phone :		Superintendent :	SANTOS MOROLES	Phone :	432-559-4901
Night Sup. :	MIKE PEAVEY	Phone :	318-623-4684	Geologist :		Phone :	
Alt. Phone :				Drill. Eng. :	RICHARD HILL	Phone :	432-818-1726

Attachments

Daily Attachment Folder(s)

Daily Drilling Report P2

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 33 Report Date : 4/9/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Mud Data

Mud Engineer : CHRIS GANEY Mud Type : Oil Base Mud Polymer Type :

Chk	Time	Depth (ft)	Density (lbs/gal)	FV (s/qt)	YP (lbs/100 ft²)	PV (cP)	WL (cc/30 min)	Cl (ppm)	Electro Static Stability	Oil Ratio	H2O Ratio	HTHP Water Loss(cc/30 min)
1	23:00	20310.	12.80000	73.00	14	26.00	5.2	25794	426.0	74	26	5.2

Bit Data

Bit #	Run #	Size (in)	Mfg.	Model	IADC Code	Daily Drilled (ft)	Daily Hours	Daily ROP (ft/hr)	Cum Drilled (ft)	Cum Hrs.	Avg. ROP (ft/hr)	Depth In (ft)	Depth Out (ft)	Max WOB (M Lbs)	PSI Drop (psi)	Nozzle Velocity (ft/s)	HHP (HP)
7	1	6.750	ULTERRA	U513M		773.00	23.50	32.89	3183.00	92.00	34.60	19657.00	20430.00	27.000	0.000	0.00	0.00

BHA Data

For Bit # : 7 Mud Motor : Total Made : 773 ft

Total BHA Hours : 417.5 Total Hours : 23.50

BHA # : 07 DC OD : 4.500 in DP OD : 4.500 in BHA Length : 3901.52 ft BHA Weight 0.00 M Lbs

Item	Jts	Length (ft)	OD (in)	ID (in)	Coupling OD (in)	Weight (lbs/ft)	Thread Type	Pin/Box
BITS	1	1.00	6.750	0.000	0.000	0.000		Pin
MUD MOTOR	1	25.74	5.000	0.000	0.000	0.000		
FLOAT SUB	1	2.07	4.625	2.688	0.000	0.000		
NON- MAG COLLAR	1	7.66	4.625	2.688	0.000	0.000		
CROSSOVER SUB	1	1.89	5.125	3.250	0.000	0.000		
SUBS	1	3.43	5.130	0.000	0.000	0.000		
SUBS	1	8.34	5.180	0.000	0.000	0.000		
GAP SUB	1	3.77	5.060	0.000	0.000	0.000		
NON- MAG COLLAR	1	27.08	4.500	2.750	0.000	0.000		
CROSSOVER SUB	1	4.01	5.310	2.500	0.000	0.000		
DRILLPIPE	120	3786.11	4.500	2.826	0.000	0.000		
CROSSOVER SUB	1	4.04	5.188	3.000	0.000	0.000		
SHOCK SUB	1	22.33	5.000	0.000	0.000	0.000	XT-39	
CROSSOVER SUB	1	4.05	5.188	2.625	0.000	0.000	XT-39	Box

Drilling Parameters

Bit #	Run #	Depth (ft)	WOB (M Lbs)	RPM		GPM	Torque		String Weight			Pressure		
				Motor	Rotary		On Bom (ft lbf)	Off Bom (ft lbf)	Pick Up (lbs)	Stack Off (lbs)	Rotate (lbs)	On Bom (psi)	Off Bom (psi)	Diff Press. (psi)
7	1	20430.00	27.000	235	70	295	14.00	8.00	300	150	220	5100.0	4100.0	1000.0

Pump Data

Bit #	Pump 1					Pump 2					Pump Pressure (psi)	AV DC (ft/min)	AV DP (ft/min)
	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)			
7		0.000	0.000	0	0.000		0.000	0.000	0	0.000	0.00	0	0

Reduced Speed Pumps

Depth(ft)	Pump 1			Pump 2		
	Model	Pressure (psi)	SPM	Model	Pressure (psi)	SPM
0.00	CE FB1600	1120.0	30	CE FB1600	140.0	30
0.00	CE FB1600	1320.0	40		0.0	0
0.00	CE FB1600	2000.0	60		0.0	0

Daily Drilling Report P3

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 33 Report Date : 4/9/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Drill Bottom Hole Targets

Bottom Hole Location	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Survey Data

Depth (ft)	Deviation	Azimuth	TVD (ft)	N/S	N/S (ft)	E/W	E/W (ft)	Vertical Section (ft)	Dog Leg
19661.00	91.22	163.2	11681.38	S	-7807.74	E	2284.32	8135.03	5.27
19755.00	91.91	165.3	11678.82	S	-7898.16	E	2309.84	8228.99	2.30
19850.00	91.64	165.7	11675.87	S	-7990.10	E	2333.60	8323.90	0.55
19945.00	93.85	168.4	11671.32	S	-8082.57	E	2354.82	8418.62	3.60
20039.00	91.91	166.9	11666.60	S	-8174.28	E	2374.87	8512.27	2.57
20134.00	90.67	166.7	11664.46	S	-8266.74	E	2396.55	8607.11	1.31
20228.00	90.62	166.8	11663.40	S	-8358.23	E	2418.10	8700.98	0.16
20323.00	91.76	165.7	11661.43	S	-8450.49	E	2440.66	8795.87	1.66

Hook Loads

Up :	290	
Down :	50	
Rotating :	200	
Torque :	0	Amps
Torque :	16000.00	ft lbf

Comments

UL 20 STRIPES 38-47 602H

RIG MOBILIZATION BEGAN - 03/08/2018 @ 00:00 HRS.
SPUD WELL @ 00:00 HRS ON 03/12/2018
(96 HR RIG MOVE, NO DIVERTER)

TOTAL HRS FROM SPUD: 672 HRS (28 DAYS)

NOTIFIED TRRC FOR SPUD @ 11:45 HRS 03/10/2018 (OPERATOR #2 AUDREY)
NOTIFIED TRRC FOR SURFACE CSG & CEMENT W/ TRRC JOB #2 AUDREY @ 1145 HRS 03/10/2018
NOTIFIED TRRC FOR INTERMEDIATE CSG & CMT, JOB #124881 (OPERATOR #4 DIANA) @ 02:07 HRS 03/17/2018, DIANA OPERATOR #4.
NOTIFIED TRRC FOR 2ND INTERMEDIATE CMT, JOB # 124881 @ 00:53 HRS, 03/27/2018, DIANA OPERATOR #4

LAST 5" DP INSP. (Red river) CAT- 4 W/ SHEAR WAVE – 03/08/2018.
421 jts kept w/Rig
33 jts sent to fishing tools
128 jts sent to NorAm yard
7 jts. down grade to Energen yd
Sent 16 jts & 1 lift sub to fishing tools

CLEAN/VISUAL INSPECT 742 JTS 4 1/2" DS-42, XX-XX-2018, XXX INSPECTION
742 JTS ACCEPTED BOTH ENDS AS PREMIUM

BHA INSPECTED 04/02/18 - HAD 3 BAD 5" HWDP, 1 BAD 6.5" DC

DAYS SINCE LAST LTA: (1,239 DAYS):
CREW SHORTAGES (LAST 24HRS / TOTAL HRS): NO/NO
CREW DOUBLES (LAST 24 HRS / TOTAL HRS): NO/NO

DOWN TIME HRS (LAST 24HRS / TOTAL HRS): 0.0/ 3.5
NON PRODUCTIVE TIME (LAST 24HRS / TOTAL HRS): 0/31.5

OBM LOST TO WELL (LAST 24 HRS / TOTAL BBLS): 00 - BBLS / 00- BBL
OBM LOST: 0- BBLS TO FORMATION
OBM LOST: 0-BBLS TO CUTTINGS

13-3/8" 61# HCK-55 BTC SURFACE SET AT 437'
10-3/4"45.5# HCN-80 BTC INTERMEDIATE SET AT 4962'
7-5/8" 29.7# HCP-110 BTC SECOND INTERMEDIATE SET @ 12,072' MD, 11,831' TVD

LATERAL #1
BHA #7 CONSISTING OF: 6.75" ULTERRA U513 JETTED WITH 7 x 12'S = .7731 TFA // 5" PHOENIX 1.83 FBH MTR. (6/7LOBE, 6.4 STG., .80 RPG)(MOTOR BORED FOR FLOAT) // FLOAT SUB // 4.75" NMPC // 5" MWD VELOCITY // 4.5" SLICK NMDC // XO SUB // 120-JTS. OF 4.5"DP // XO SUB // SS/AGITATOR // XO SUB // TOTAL BHA = 3901.52'. DEPTH IN: 17,247' // DEPTH OUT: XXX' // FTG DRILLED: XXXX' // TOTAL DRLG HRS: XXX // TOTAL MTR. HRS: XXX // ROP: XXX FPH // REASON PULLED: ROP // BIT GRADE = X-X-XX
MWD O/S SCRIBE: DAO:102.2DEG

LATERAL #1
BHA #6 CONSISTING OF: 6.75" ULTERRA U513 JETTED WITH 7 x 12'S = .7731 TFA // 5" PHOENIX 1.83 FBH MTR. (6/7LOBE, 6.4 STG., .80 RPG)(MOTOR BORED FOR FLOAT) // FLOAT SUB // 4.75" NMPC // 5" MWD VELOCITY // 4.5" SLICK NMDC // XO SUB // 90-JTS. OF 4.5"DP // XO SUB // SS/AGITATOR // XO SUB // TOTAL BHA = 2954.95'. DEPTH IN: 12,072' // DEPTH OUT: 17,247' // FTG DRILLED: 5165' // TOTAL DRLG HRS: 103.5 // TOTAL MTR. HRS: 103.5 // ROP: 49.7 FPH // REASON PULLED: ROP // BIT GRADE = 7-1
MWD O/S SCRIBE: DAO:7.6DEG

CURVE #1
BHA #5 CONSISTING OF: 9.875" ULTERRA CF613 JETTED WITH 3 x16'S x 3 x 18'S = 1.33 TFA // 7.75" PHOENIX MTR. 2.38° ADJ., (4/5LOBE, 5.3 STG., .253 REV/GAL) // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC // 1- XO SUB // 36-JTS. OF 5"DP // 15JTS. 5" HWDP // TOTAL BHA = 1678.92' // DEPTH IN: 11,120' // DEPTH OUT: 12082" // FTG DRILLED: 962' // TOTAL DRLG HRS: 28.5 // TOTAL MTR. HRS: 28.5 // ROP: 33.7 FPH // REASON PULLED: CSG POINT // BIT GRADE = 2-2-IG

INTERMEDIATE #2
BHA #4: 9.875" ULTERRA CF716 JETTED WITH 7 x14'S = 1.05 TFA // 7.75" PHOENIX MTR. 1.5° ADJ., (7/8LOBE, 4.0 STG., .166 REV/GAL) // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15JTS. 5" HWDP // TOTAL BHA = 1016.04' // DEPTH IN: 9398' // DEPTH OUT: 11,120' // FTG DRILLED: 1722' // TOTAL DRLG HRS: 53 // TOTAL MTR. HRS: 54.5 // ROP: 32 FPH // REASON PULLED: CHANGE BHA // BIT GRADE = 1-1-CT-S--I-CT-BHA

INTERMEDIATE #2
BHA #3: 9.875" ULTERRA 616M, W/6x16's TFA: 1.1781 // PHOENIX MTR 7.75", 7/8 4.0,1.5° BENT SLICK SLEEVE. 0.166 RPG - // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15 JTS 5" HWDP// TOTAL BHA = 1016.33' // DEPTH IN: 4967' // DEPTH OUT: 9398' // FTG DRILLED: 4431' // TOTAL DRLG HRS: 51 // TOTAL MTR HRS: 52.5 // ROP: 86FPH // REASON PULLED: LOW R.O.P.// BIT GRADE = 4-2-BT-N--I-RO-PR

INTERMEDIATE #1
BHA #2: 12.25" ULTERRA CF616S, W/6x16's TFA: 1.1781 // PHOENIX MTR 7.75", 7/8 4.0,1.5° BENT STAB. 0.166 RPG - // 11.75" NORTRAK STAB // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 11.75 NORTRAK STAB // 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15 JTS 5" HWDP // TOTAL BHA = 1026.98' // DEPTH IN: 450' // DEPTH OUT: 4967' // FTG. DRILLED: 4517' // TOTAL DRLG. HRS.: 59.5 // TOTAL MTR. HRS: 60.5 // AVG. ROP: 81' FPH // REASON PULLED: TD / CSG. POINT // 1-1-CT-N-I-NO-TD

SURFACE #1
BHA #1: 17.5" ULTERRA U616S, W/9x16's TFA: 1.767 // TDI DIRECTIONAL MTR 9-5/8", 5/6 4.0,1.5° BENT SLICK 0.107 RPG - // IBS // MWD EXTREME // UBHO // 8" NMDC //17.25" NM IBS//8" NMDC//FILTER SUB// 8" SHOCK SUB // 12 - 8" DC // 1- XO SUBS //12- JTS 6.5" DC//XO// 15 JTS HWDP// TOTAL BHA = 1305.77 // DEPTH IN: 145' // DEPTH OUT: 450' // FTG. DRILLED: 305' // TOTAL DRLG HRS: 8 // TOTAL MTR. HRS: 11 // ROP: 38.1' FPH // REASON PULLED: CSG POINT // 1/1 BIT GRADE: 1-1-NO-A-I-NO-TD

STARTING RIG FUEL - 3200 GALLONS TRANSFERRED IN .

DIESEL USAGE:
RIG FUEL (DAILY/TOTAL): 1477/48815 GALS
MUD DIESEL (DAILY/TOTAL 2500/ 25050/GALS
AUXILIARY EQUIPMENT (DAILY/TOTAL): 18/ 3186 GALS
CERTARUS GAS (DAILY/TOTAL) 0 / 11077.09

NO LEAKS OR SPILLS REPORTED OR OBSERVED

Solids Removal

Shakers

Shaker #	Bottom	Middle	Top

Other Solids Removal Equipment

Item	Hrs Run	Intake Density (lbs/gal)	Overflow Density (lbs/gal)	Underflow Density (lbs/gal)

Mud Log

Formation : Wolfcamp A Shale

Background Gas : 288 Connection Gas : 601 Flare Length :

Trip Calc :

Well Incident

Report # : Incident Date : Report Date :

Problem Name :

Daily Drilling Report P1

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 34 Report Date : 4/10/2018

Financials

Daily Cost : $67,191 Cost to Date : $3,326,946

AFE # : PB18100003

AFE : $10,772,650 AFE Cost to Date : $3,326,946

Operations

Event Objective : Noram 27 D&C DB DEV WC A Event Sub Type : Drilling Prod

A.M. Ops : 00:00 - 06:00 HRS: ROT/SLIDE DRLG F/21,165' - 21,350'(185' @ 30.8FPH)

Ops Forecast : DRILL 6-3/4" LATERAL AS PER PLAN #7 TO 21,646'. FOOTAGE LEFT TO DRILL:296', CTCH, L/D DRILL PIPE

24hr. Summary : ROT/SLIDE DRLG F/20,430' - 21,165'(735' @ 31.2FPH), 23-1/2 HRS.

Planning Status :

Elevations

GL 2772.00 ft Reserve Pit Freeboard : 0.00 ft

Progress

Days from Spud : 29 Progress : 735.00 ft MD at Report Time : 21165.00 ft

Rig on Location (days) : 34 Est. TD : 21672.00 ft TVD At Report Time : 0.00 ft

Event Dates

Spud Date	Spud Time	Suspended Drilling Date	Resume Drilling Date	Total Depth Date	Total Depth Time	Finished Drilling Date	Finished Drilling Time	Rig Released Date	Rig Released Time
3/12/2018	00:00								

Time Breakdown

Start Time : 00:00 Initial Depth : 0.00 ft Drilling Hours : 23.50 Total Drilling Hours : 418.50 Total Hours : 24.00 Time Code : DRILLING -

Drilling % : 97.92 Rotating % : 51.06 Sliding % : 48.94

Start Time	End Time	Hours	Phase	Activity		NPT	Bit #	Run #	Depth (ft)	Remarks
				Time Code	Description					
00:00	04:30	4.50	DRLPRL	02D	DRILLING - MTR/TURB - DIR/HORZ	No	7	1	20668.00	ROT DRLG. 6-3/4" LATERAL F/20,430' - 20,668' (238' - 52.8FPH) WOB: 20K, ROT: 75 PP: 5250PSI., DIFF: 950PSI., TORQ: 15K, GPM: 295, MMRPM: 235, MD. WT. 12.8PPG., BGG 100-150UNITS, DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES.
04:30	09:00	4.50	DRLPRL	02M	DRILLING - DRILLING - SLIDING	No	7	1	20691.00	SLIDE DRLG 6-3/4" LATERAL F/20,668' - 20,691' (23' - 5.1FPH) GTF: 30R, WOB: 45-75K, PP: 4350 PSI., DIFF: 100PSI., GPM: 294, MMRPM: 235, MD. WT. 12.8PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES.
09:00	12:00	3.00	DRLPRL	02D	DRILLING - MTR/TURB - DIR/HORZ	No	7	1	20820.00	ROT DRLG. 6-3/4" LATERAL F/20,691' - 20,820' (129' - 43FPH) WOB: 20K, ROT: 75 PP: 5250PSI., DIFF: 950PSI., TORQ: 15K, GPM: 295, MMRPM: 235, MD. WT. 12.8PPG., BGG 100-150UNITS, DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES.
12:00	14:30	2.50	DRLPRL	02M	DRILLING - DRILLING - SLIDING	No	7	1	20936.00	SLIDE DRLG 6-3/4" LATERAL F/20,820' - 20,936' (116' - 46.4FPH) GTF: 30R, WOB: 45-75K, PP: 4350 PSI., DIFF: 100PSI., GPM: 294, MMRPM: 235, MD. WT. 12.8PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES.
14:30	15:00	0.50	DRLPRL	10A	LUB RIG - DAILY SERVICE	No	7	1	20936.00	SERVICE RIG
15:00	17:00	2.00	DRLPRL	02D	DRILLING - MTR/TURB - DIR/HORZ	No	7	1	21050.00	ROT DRLG. 6-3/4" LATERAL F/20,936' - 21,050' (114' - 57FPH) WOB: 20K, ROT: 75 PP: 5250PSI., DIFF: 950PSI., TORQ: 15K, GPM: 295, MMRPM: 235, MD. WT. 12.8PPG., BGG 100-150UNITS, DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES.
17:00	21:00	4.00	DRLPRL	02M	DRILLING - DRILLING - SLIDING	No	7	1	21057.00	SLIDE DRLG 6-3/4" LATERAL F/21,048' - 21,057' (9' - 2.25FPH) GTF: 90L, WOB: 85K, PP: 4500 PSI., DIFF: 220PSI., GPM: 296, MMRPM: 236, MD. WT. 12.8PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES.
21:00	23:30	2.50	DRLPRL	02D	DRILLING - MTR/TURB - DIR/HORZ	No	7	1	21164.00	ROT DRLG. 6-3/4" LATERAL F/21,057' - 21,164' (107' - 43FPH) WOB: 20K, ROT: 75 PP: 5400PSI., DIFF: 800PSI., TORQ: 17K, GPM: 296, MMRPM: 236, MD. WT. 12.8PPG., BGG 100-150UNITS, DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES.
23:30	00:00	0.50	DRLPRL	02M	DRILLING - DRILLING - SLIDING	No	7	1	21165.00	SLIDE DRLG 6-3/4" LATERAL F/21,164' - 21,165' (1' - 2FPH) GTF: 120L, WOB: 85K, PP: 4500 PSI., DIFF: 220PSI., GPM: 296, MMRPM: 236, MD. WT. 12.8PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES.

Personnel Hours

Vendor	Vendor Type	Number Of People	Hours On Site	Total Hours
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00
NORAM DRILLING COMPANY	TOOLPUSHER	1	24.00	24.00
NORAM DRILLING COMPANY	RIG CREWS	12	24.00	288.00
AES DRILLING FLUIDS LLC	1- MAN CREW	1	24.00	24.00
PHOENIX DIRECTIONAL DRILLERS	4- MAN CREW	4	24.00	96.00
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00

Rig Information

KB Elevation: 2797.00 ft KB To GL : 25.00 ft

Rig(s) for today :	Noram 27	Rig Manager :	TOBY JOHNSON	Rig Phone :	432-219-0731
Date and Time of Rig Release :		Days From Rig Release :	0.00	Rig Fax :	

Safety

Last BOP Test(F) Date :	3/29/2018	Last BOP Pressure :	8500.000	psi	Last Lot Fit :	14.50
Last Csg Date :	3/19/2018	Last Csg Pressure :	1500.000	psi	Last Spills Reported :	
Last BOP Drill Date :	4/9/2018	Last Test MW :	12.50		Last Accidents :	
Last Fire Drill :		Last Test TVD :	11831.00	ft	Last Safety Meeting :	4/10/2018 19:00
Last Evac Drill :		Last Test Pressure :	1230.000	psi	Last Safety Meeting Topic :	AIR HOIST OPERATIONS

Contacts

Day Sup. :	WAYLON TRAMMELL	Phone :		Superintendent :	SANTOS MOROLES	Phone :	432-559-4901
Night Sup. :	CHRIS KEIS	Phone :		Geologist :		Phone :	
Alt. Phone :				Drill. Eng. :	RICHARD HILL	Phone :	432-818-1726

Attachments

Daily Attachment Folder(s)

Daily Drilling Report P2

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 34 Report Date : 4/10/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Mud Data

Mud Engineer : J BENGE Mud Type : Oil Base Mud Polymer Type :

Chk	Time	Depth (ft)	Density (lbs/gal)	FV (s/qt)	YP (lbs/100 ft²)	PV (cP)	WL (cc/30 min)	Cl (ppm)	Electro Static Stability	Oil Ratio	H2O Ratio	HTHP Water Loss(cc/30 min)
1	21:00	21131.	12.80000	67.00	14	27.00	4.8	42000	461.0	0	0	4.8

Bit Data

Bit #	Run #	Size (in)	Mfg.	Model	IADC Code	Daily Drilled (ft)	Daily Hours	Daily ROP (ft/hr)	Cum Drilled (ft)	Cum Hrs.	Avg. ROP (ft/hr)	Depth In (ft)	Depth Out (ft)	Max WOB (M Lbs)	PSI Drop (psi)	Nozzle Velocity (ft/s)	HHP (HP)
7	1	6.750	ULTERRA	U513M		735.00	23.50	31.28	3918.00	115.50	33.92	20430.00	21165.00	19.000	173.356	123.06	30.01

BHA Data

For Bit # : 7 Mud Motor : Total Made : 735 ft

Total BHA Hours : 441.0 Total Hours : 23.50

BHA # : 07 DC OD : 4.750 in DP OD : 4.500 in BHA Length : 3901.52 ft BHA Weight 0.00 M Lbs

Item	Jts	Length (ft)	OD (in)	ID (in)	Coupling OD (in)	Weight (lbs/ft)	Thread Type	Pin/Box
BITS	1	1.00	6.750	0.000	0.000	0.000		Pin
MUD MOTOR	1	25.74	5.000	0.000	0.000	0.000		
FLOAT SUB	1	2.07	4.625	2.688	0.000	0.000		
NON- MAG COLLAR	1	7.66	4.625	2.688	0.000	0.000		
CROSSOVER SUB	1	1.89	5.125	3.250	0.000	0.000		
SUBS	1	3.43	5.130	0.000	0.000	0.000		
SUBS	1	8.34	5.180	0.000	0.000	0.000		
GAP SUB	1	3.77	5.060	0.000	0.000	0.000		
NON- MAG COLLAR	1	27.08	4.500	2.750	0.000	0.000		
CROSSOVER SUB	1	4.01	5.310	2.500	0.000	0.000		
DRILLPIPE	120	3786.11	4.500	2.826	0.000	0.000		
CROSSOVER SUB	1	4.04	5.188	3.000	0.000	0.000		
SHOCK SUB	1	22.33	5.000	0.000	0.000	0.000	XT-39	
CROSSOVER SUB	1	4.05	5.188	2.625	0.000	0.000	XT-39	Box

Drilling Parameters

Bit #	Run #	Depth (ft)	WOB (M Lbs)	RPM		GPM	Torque		String Weight			Pressure		
				Motor	Rotary		On Bom (ft lbf)	Off Bom (ft lbf)	Pick Up (lbs)	Stack Off (lbs)	Rotate (lbs)	On Bom (psi)	Off Bom (psi)	Diff Press. (psi)
7	1	21165.00	19.000	236	75	296	17000.00	9000.00	300	100	220	4720.0	4500.0	220.0

Pump Data

Bit #	Pump 1					Pump 2					Pump Pressure (psi)	AV DC (ft/min)	AV DP (ft/min)
	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)			
7	CE FB1600	12.000	5.000	0	0.000	CE FB1600	12.000	5.000	102	296.546	4500.00	316	287

Reduced Speed Pumps

Depth(ft)	Pump 1			Pump 2		
	Model	Pressure (psi)	SPM	Model	Pressure (psi)	SPM
20843.00	CE FB1600	0.0	0	CE FB1600	1280.0	30
0.00	CE FB1600	0.0	0	CE FB1600	1540.0	40
0.00	CE FB1600	0.0	0	CE FB1600	2240.0	60

Daily Drilling Report P3

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 34 Report Date : 4/10/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Drill Bottom Hole Targets

Bottom Hole Location	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Survey Data

Depth (ft)	Deviation	Azimuth	TVD (ft)	N/S	N/S (ft)	E/W	E/W (ft)	Vertical Section (ft)	Dog Leg
20512.00	91.01	165.6	11656.43	S	-8633.66	E	2486.96	8984.68	0.80
20606.00	90.39	166.3	11655.28	S	-8724.83	E	2509.82	9078.61	0.99
20701.00	93.93	166.4	11651.70	S	-8817.06	E	2532.25	9173.43	3.67
20796.00	93.04	166.0	11645.93	S	-8909.14	E	2554.92	9268.17	1.02
20890.00	90.52	164.1	11643.01	S	-8999.90	E	2579.15	9362.09	3.25
20985.00	92.08	164.3	11640.85	S	-9091.30	E	2604.96	9457.06	1.63
21080.00	93.07	163.4	11636.58	S	-9182.46	E	2631.32	9551.96	1.40

Hook Loads

Up :	300	
Down :	100	
Rotating :	220	
Torque :	0	Amps
Torque :	17000.00	ft lbf

Comments

UL 20 STRIPES 38-47 602H

RIG MOBILIZATION BEGAN - 03/08/2018 @ 00:00 HRS.
SPUD WELL @ 00:00 HRS ON 03/12/2018
(96 HR RIG MOVE, NO DIVERTER)

TOTAL HRS FROM SPUD: 696 HRS (29 DAYS)

NOTIFIED TRRC FOR SPUD @ 11:45 HRS 03/10/2018 (OPERATOR #2 AUDREY)
NOTIFIED TRRC FOR SURFACE CSG & CEMENT W/ TRRC JOB #2 AUDREY @ 1145 HRS 03/10/2018
NOTIFIED TRRC FOR INTERMEDIATE CSG & CMT, JOB #124881 (OPERATOR #4 DIANA) @ 02:07 HRS 03/17/2018, DIANA OPERATOR #4.
NOTIFIED TRRC FOR 2ND INTERMEDIATE CMT, JOB # 124881 @ 00:53 HRS, 03/27/2018, DIANA OPERATOR #4

LAST 5" DP INSP. (Red river) CAT- 4 W/ SHEAR WAVE – 03/08/2018.
421 jts kept w/Rig
33 jts sent to fishing tools
128 jts sent to NorAm yard
7 jts. down grade to Energen yd
Sent 16 jts & 1 lift sub to fishing tools

CLEAN/VISUAL INSPECT 742 JTS 4 1/2" DS-42, XX-XX-2018, XXX INSPECTION
742 JTS ACCEPTED BOTH ENDS AS PREMIUM

BHA INSPECTED 04/02/18 - HAD 3 BAD 5" HWDP, 1 BAD 6.5" DC

DAYS SINCE LAST LTA: (1,240 DAYS):
CREW SHORTAGES (LAST 24HRS / TOTAL HRS): NO/NO
CREW DOUBLES (LAST 24 HRS / TOTAL HRS): NO/NO

DOWN TIME HRS (LAST 24HRS / TOTAL HRS): 0.0/ 3.5
NON PRODUCTIVE TIME (LAST 24HRS / TOTAL HRS): 0/31.5

OBM LOST TO WELL (LAST 24 HRS / TOTAL BBLS): 00 - BBLS / 00- BBL
OBM LOST: 0- BBLS TO FORMATION
OBM LOST: 0-BBLS TO CUTTINGS

13-3/8" 61# HCK-55 BTC SURFACE SET AT 437'
10-3/4"45.5# HCN-80 BTC INTERMEDIATE SET AT 4962'
7-5/8" 29.7# HCP-110 BTC SECOND INTERMEDIATE SET @ 12,072' MD, 11,831' TVD

LATERAL #1
BHA #7 CONSISTING OF: 6.75" ULTERRA U513 JETTED WITH 7 x 12'S = .7731 TFA // 5" PHOENIX 1.83 FBH MTR. (6/7LOBE, 6.4 STG., .80 RPG)(MOTOR BORED FOR FLOAT) // FLOAT SUB // 4.75" NMPC // 5" MWD VELOCITY // 4.5" SLICK NMDC // XO SUB // 120-JTS. OF 4.5"DP // XO SUB // SS/AGITATOR // XO SUB // TOTAL BHA = 3901.52'. DEPTH IN: 17,247' // DEPTH OUT: XXX' // FTG DRILLED: XXXX' // TOTAL DRLG HRS: XXX // TOTAL MTR. HRS: XXX // ROP: XXX FPH // REASON PULLED: ROP // BIT GRADE = X-X-XX
MWD O/S SCRIBE: DAO:102.2DEG

LATERAL #1
BHA #6 CONSISTING OF: 6.75" ULTERRA U513 JETTED WITH 7 x 12'S = .7731 TFA // 5" PHOENIX 1.83 FBH MTR. (6/7LOBE, 6.4 STG., .80 RPG)(MOTOR BORED FOR FLOAT) // FLOAT SUB // 4.75" NMPC // 5" MWD VELOCITY // 4.5" SLICK NMDC // XO SUB // 90-JTS. OF 4.5"DP // XO SUB // SS/AGITATOR // XO SUB // TOTAL BHA = 2954.95'. DEPTH IN: 12,072' // DEPTH OUT: 17,247' // FTG DRILLED: 5165' // TOTAL DRLG HRS: 103.5 // TOTAL MTR. HRS: 103.5 // ROP: 49.7 FPH // REASON PULLED: ROP // BIT GRADE = 7-1
MWD O/S SCRIBE: DAO:7.6DEG

CURVE #1
BHA #5 CONSISTING OF: 9.875" ULTERRA CF613 JETTED WITH 3 x16'S x 3 x 18'S = 1.33 TFA // 7.75" PHOENIX MTR. 2.38° ADJ., (4/5LOBE, 5.3 STG., .253 REV/GAL) // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC // 1- XO SUB // 36-JTS. OF 5"DP // 15JTS. 5" HWDP // TOTAL BHA = 1678.92' // DEPTH IN: 11,120' // DEPTH OUT: 12082" // FTG DRILLED: 962' // TOTAL DRLG HRS: 28.5 // TOTAL MTR. HRS: 28.5 // ROP: 33.7 FPH // REASON PULLED: CSG POINT // BIT GRADE = 2-2-IG

INTERMEDIATE #2
BHA #4: 9.875" ULTERRA CF716 JETTED WITH 7 x14'S = 1.05 TFA // 7.75" PHOENIX MTR. 1.5° ADJ., (7/8LOBE, 4.0 STG., .166 REV/GAL) // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15JTS. 5" HWDP // TOTAL BHA = 1016.04' // DEPTH IN: 9398' // DEPTH OUT: 11,120' // FTG DRILLED: 1722' // TOTAL DRLG HRS: 53 // TOTAL MTR. HRS: 54.5 // ROP: 32 FPH // REASON PULLED: CHANGE BHA // BIT GRADE = 1-1-CT-S--I-CT-BHA

INTERMEDIATE #2
BHA #3: 9.875" ULTERRA 616M, W/6x16's TFA: 1.1781 // PHOENIX MTR 7.75", 7/8 4.0,1.5° BENT SLICK SLEEVE. 0.166 RPG - // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15 JTS 5" HWDP// TOTAL BHA = 1016.33' // DEPTH IN: 4967' // DEPTH OUT: 9398' // FTG DRILLED: 4431' // TOTAL DRLG HRS: 51 // TOTAL MTR HRS: 52.5 // ROP: 86FPH // REASON PULLED: LOW R.O.P.// BIT GRADE = 4-2-BT-N--I-RO-PR

INTERMEDIATE #1
BHA #2: 12.25" ULTERRA CF616S, W/6x16's TFA: 1.1781 // PHOENIX MTR 7.75", 7/8 4.0,1.5° BENT STAB. 0.166 RPG - // 11.75" NORTRAK STAB // 8" SHOCK SUB // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC// 11.75 NORTRAK STAB // 1- XO SUBS // 15 - 6.5" DC // 1- XO SUBS // 15 JTS 5" HWDP // TOTAL BHA = 1026.98' // DEPTH IN: 450' // DEPTH OUT: 4967' // FTG. DRILLED: 4517' // TOTAL DRLG. HRS.: 59.5 // TOTAL MTR. HRS: 60.5 // AVG. ROP: 81' FPH // REASON PULLED: TD / CSG. POINT // 1-1-CT-N-I-NO-TD

SURFACE #1
BHA #1: 17.5" ULTERRA U616S, W/9x16's TFA: 1.767 // TDI DIRECTIONAL MTR 9-5/8", 5/6 4.0,1.5° BENT SLICK 0.107 RPG - // IBS // MWD EXTREME // UBHO // 8" NMDC //17.25" NM IBS//8" NMDC//FILTER SUB// 8" SHOCK SUB // 12 - 8" DC // 1- XO SUBS //12- JTS 6.5" DC//XO// 15 JTS HWDP// TOTAL BHA = 1305.77 // DEPTH IN: 145' // DEPTH OUT: 450' // FTG. DRILLED: 305' // TOTAL DRLG HRS: 8 // TOTAL MTR. HRS: 11 // ROP: 38.1' FPH // REASON PULLED: CSG POINT // 1/1 BIT GRADE: 1-1-NO-A-I-NO-TD

STARTING RIG FUEL - 3200 GALLONS TRANSFERRED IN .

DIESEL USAGE:
RIG FUEL (DAILY/TOTAL): 1843/50,658 GALS
MUD DIESEL (DAILY/TOTAL 2,500/ 27,550/GALS
AUXILIARY EQUIPMENT (DAILY/TOTAL): 0/ 3186 GALS
CERTARUS GAS (DAILY/TOTAL) 946.67 / 12855.06

NO LEAKS OR SPILLS REPORTED OR OBSERVED

Solids Removal

Shakers

Shaker #	Bottom	Middle	Top

Other Solids Removal Equipment

Item	Hrs Run	Intake Density (lbs/gal)	Overflow Density (lbs/gal)	Underflow Density (lbs/gal)

Mud Log

Formation : Wolfcamp A Shale
Background Gas : 100
Connection Gas :
Flare Length :
Trip Calc :

Well Incident

Report # :
Incident Date :
Report Date :
Problem Name :

Daily Drilling Report P1

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 35 Report Date : 4/11/2018

Financials

Daily Cost : $119,684 Cost to Date : $3,470,230

AFE # : PB18100003

AFE : $10,772,650 AFE Cost to Date : $3,470,230

Operations

Event Objective : Noram 27 D&C DB DEV WC A Event Sub Type : Drilling Prod

A.M. Ops : 00:00 - 06:00: POOH F/16,850' - T/13,081', L/D D/P: F/13,081' - T/10,400', SLIP AND CUT DRILL LINE, CONT. TO L/D DP.

Ops Forecast : L/D DP., RIG UP CSG. CREW, RUN PROD. CSG.

24hr. Summary : ROT/SLIDE DRLG F/21,165' - 21,634'(469' @ 42.6FPH), 11 HRS., WIPER TRIP 5 STDS., REAM BACK TO BTM., PERFORM C/U CYCL., POOH F/21,634' - T/16,850'

Planning Status :

Elevations

GL 2772.00 ft Reserve Pit Freeboard : 0.00 ft

Progress

Days from Spud : 30 Progress : 469.00 ft MD at Report Time : 21634.00 ft

Rig on Location (days) : 35 Est. TD : 21672.00 ft TVD At Report Time : 0.00 ft

Event Dates

Spud Date	Spud Time	Suspended Drilling Date	Resume Drilling Date	Total Depth Date	Total Depth Time	Finished Drilling Date	Finished Drilling Time	Rig Released Date	Rig Released Time
3/12/2018	00:00								

Time Breakdown

Start Time : 00:00 Initial Depth : 0.00 ft Drilling Hours : 13.00 Total Drilling Hours : 431.50 Total Hours : 24.00 Time Code : TRIPPING -

Drilling % : 54.17 Rotating % : 84.62 Sliding % : 15.38

Start Time	End Time	Hours	Phase	Activity		NPT	Bit #	Run #	Depth (ft)	Remarks
				Time Code	Description					
00:00	02:00	2.00	DRLPRL	02M	DRILLING - DRILLING - SLIDING	No	7	1	21174.00	SLIDE DRLG 6- 3/4" LATERAL F/ 21, 165' - 21, 174' (9' - 4.5FPH) GTF: 120L, WOB: 85K, PP: 4500 PSI., DIFF: 220PSI., GPM: 296, MMRPM: 236, MD. WT. 12. 8PPG., DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES.
02:00	06:00	4.00	DRLPRL	02D	DRILLING - MTR/TURB - DIR/HORZ	No	7	1	21340.00	ROT DRLG. 6 - 3/4" LATERAL F/ 21, 174' - 21, 340' (166' - 41.5FPH) WOB: 20K, ROT: 75 PP: 5400PSI., DIFF: 800PSI., TORQ: 17K, GPM: 296, MMRPM: 236, MD. WT. 12. 8PPG., BGG 100 - 150UNITS, DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES.
06:00	13:00	7.00	DRLPRL	02D	DRILLING - MTR/TURB - DIR/HORZ	No	7	1	21634.00	ROT DRLG. 6 - 3/4" LATERAL F/ 21, 340' - 21, 634' (294' - 42FPH) WOB: 20K, ROT: 75 PP: 5400PSI., DIFF: 800PSI., TORQ: 17K, GPM: 296, MMRPM: 236, MD. WT. 12. 8PPG., BGG 100 - 150UNITS, DRLG. DOWN FLOW LINE WITH NO GAINS OR LOSSES.
13:00	15:00	2.00	CSGPRO	08E	TRIPPING - WIPER	No	7	1	21634.00	TOOH 5 STANDS WITH WIPER TRIP AS FOLLOWS: FIRST STAND- 430K SECOND STAND- 400K THIRD STAND- 375K FOURTH STAND- 370K FIFTH STAND- 360K REAM BACK TO BOTTOM FOR CLEAN UP CYCLE WITH NO ABNORMAL TQ OR DRAG
15:00	20:00	5.00	CSGPRO	07C	C & C MUD - PRIOR TO TRIP	No	7	1	21634.00	WORK A FULL STAND WITH 85 TOP DRIVE RPM, 101 SPM, 4600 PSI, STARTED WITH 12. 5 TQ & AFTER 30, 000 STROKES TQ FELL OFF TO 9, 250, DECISION MADE TO SLUG & POOH
20:00	21:30	1.50	CSGPRO	08D	TRIPPING - CASING / LINER	No	7	1	21634.00	WELL STATIC, MONITOR DISP. ON TRIP TANK, POOH F/ 21, 634' - T/ 20, 220' FIRST STAND- 340K SECOND STAND- 330K THIRD STAND- 330K FOURTH STAND- 320K FIFTH STAND- 330K
21:30	22:00	0.50	CSGPRO	10A	LUB RIG - DAILY SERVICE	No	7	1	21634.00	RIG SERVICE, CHANGE OUT BLADDER ON FLOW LINE
22:00	00:00	2.00	CSGPRO	08D	TRIPPING - CASING / LINER	No	7	1	21634.00	POOH F/ 20, 220' - T/ 16, 850' TIGHT SPOTS AS FOLLOWS PAST 16, 850' 16, 800' - 16, 500' 15, 900' 15, 300' 14, 501'

Personnel Hours

Vendor	Vendor Type	Number Of People	Hours On Site	Total Hours
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00
NORAM DRILLING COMPANY	TOOLPUSHER	1	24.00	24.00
NORAM DRILLING COMPANY	RIG CREWS	12	24.00	288.00
AES DRILLING FLUIDS LLC	1- MAN CREW	1	24.00	24.00
PHOENIX DIRECTIONAL DRILLERS	4- MAN CREW	4	24.00	96.00

ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00

Rig Information

KB Elevation:	2797.00 ft	KB To GL :	25.00 ft		
Rig(s) for today :	Noram 27	Rig Manager :	TOBY JOHNSON	Rig Phone :	432-219-0731
Date and Time of Rig Release :		Days From Rig Release :	0.00	Rig Fax :	

Safety

Last BOP Test(F) Date :	3/29/2018	Last BOP Pressure :	8500.000 psi	Last Lot Fit :	14.50
Last Csg Date :	3/19/2018	Last Csg Pressure :	1500.000 psi	Last Spills Reported :	
Last BOP Drill Date :	4/9/2018	Last Test MW :	12.50	Last Accidents :	
Last Fire Drill :		Last Test TVD :	11831.00 ft	Last Safety Meeting :	4/11/2018 19:00
Last Evac Drill :		Last Test Pressure :	1230.000 psi	Last Safety Meeting Topic	SLIP AND CUT DRILL LINE

Contacts

Day Sup. :	WAYLON TRAMMELL	Phone :		Superintendent :	SANTOS MOROLES	Phone :	432-559-4901
Night Sup. :	CHRIS KEIS	Phone :		Geologist :		Phone :	
Alt. Phone :				Drill. Eng. :	RICHARD HILL	Phone :	432-818-1726

Attachments

Daily Attachment Folder(s)

Daily Drilling Report P2

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 35 Report Date : 4/11/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Mud Data

Mud Engineer : J. BENGE Mud Type : Oil Base Mud Polymer Type :

Chk	Time	Depth (ft)	Density (lbs/gal)	FV (s/qt)	YP (lbs/100 ft²)	PV (cP)	WL (cc/30 min)	Cl (ppm)	Electro Static Stability	Oil Ratio	H2O Ratio	HTHP Water Loss(cc/30 min)
1	08:00	21445.	12.90000	70.00	15	25.00	0.0	41000	439.0	76	24	5.4
2	20:00	21634.	12.80000	66.00	14	26.00	0.0	41500	461.0	75	25	5.6

Bit Data

Bit #	Run #	Size (in)	Mfg.	Model	IADC Code	Daily Drilled (ft)	Daily Hours	Daily ROP (ft/hr)	Cum Drilled (ft)	Cum Hrs.	Avg. ROP (ft/hr)	Depth In (ft)	Depth Out (ft)	Max WOB (M Lbs)	PSI Drop (psi)	Nozzle Velocity (ft/s)	HHP (HP)
7	1	6.750	ULTERRA	U513M		469.00	13.00	36.08	4387.00	128.50	34.14	21165.00	21634.00	19.000	173.356	123.06	30.01

BHA Data

For Bit # : 7 Mud Motor : Total Made : 469 ft

Total BHA Hours : 459.0 Total Hours : 13.00

BHA # : 07 DC OD : 4.750 in DP OD : 4.500 in BHA Length : 3901.52 ft BHA Weight 0.00 M Lbs

Item	Jts	Length (ft)	OD (in)	ID (in)	Coupling OD (in)	Weight (lbs/ft)	Thread Type	Pin/Box
BITS	1	1.00	6.750	0.000	0.000	0.000		Pin
MUD MOTOR	1	25.74	5.000	0.000	0.000	0.000		
FLOAT SUB	1	2.07	4.625	2.688	0.000	0.000		
NON- MAG COLLAR	1	7.66	4.625	2.688	0.000	0.000		
CROSSOVER SUB	1	1.89	5.125	3.250	0.000	0.000		
SUBS	1	3.43	5.130	0.000	0.000	0.000		
SUBS	1	8.34	5.180	0.000	0.000	0.000		
GAP SUB	1	3.77	5.060	0.000	0.000	0.000		
NON- MAG COLLAR	1	27.08	4.500	2.750	0.000	0.000		
CROSSOVER SUB	1	4.01	5.310	2.500	0.000	0.000		
DRILLPIPE	120	3786.11	4.500	2.826	0.000	0.000		
CROSSOVER SUB	1	4.04	5.188	3.000	0.000	0.000		
SHOCK SUB	1	22.33	5.000	0.000	0.000	0.000	XT-39	
CROSSOVER SUB	1	4.05	5.188	2.625	0.000	0.000	XT-39	Box

Drilling Parameters

Bit #	Run #	Depth (ft)	WOB (M Lbs)	RPM		GPM	Torque		String Weight			Pressure		
				Motor	Rotary		On Bom (ft lbf)	Off Bom (ft lbf)	Pick Up (lbs)	Stack Off (lbs)	Rotate (lbs)	On Bom (psi)	Off Bom (psi)	Diff Press. (psi)
7	1	21634.00	19.000	236	75	296	17000.00	9000.00	340	150	250	5400.0	4600.0	800.0

Pump Data

Bit #	Pump 1					Pump 2					Pump Pressure (psi)	AV DC (ft/min)	AV DP (ft/min)
	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)			
7	CE FB1600	12.000	5.000	0	0.000	CE FB1600	12.000	5.000	102	296.546	4500.00	316	287

Reduced Speed Pumps

Depth(ft)	Pump 1			Pump 2		
	Model	Pressure (psi)	SPM	Model	Pressure (psi)	SPM
0.00	CE FB1600	0.0	0	CE FB1600	1280.0	30
0.00	CE FB1600	0.0	0	CE FB1600	1540.0	40
0.00	CE FB1600	0.0	0	CE FB1600	2240.0	60

Daily Drilling Report P3

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 35 Report Date : 4/11/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Drill Bottom Hole Targets

Bottom Hole Location	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Survey Data

Depth (ft)	Deviation	Azimuth	TVD (ft)	N/S	N/S (ft)	E/W	E/W (ft)	Vertical Section (ft)	Dog Leg
21175.00	89.08	162.1	11634.80	S	-9273.15	E	2659.51	9646.91	4.36
21269.00	88.24	162.1	11637.00	S	-9362.55	E	2688.46	9740.84	0.88
21364.00	88.75	162.3	11639.49	S	-9452.95	E	2717.55	9835.77	0.58
21459.00	91.28	162.9	11639.47	S	-9543.60	E	2745.95	9930.74	2.70
21553.00	92.85	162.6	11636.08	S	-9633.32	E	2773.76	10024.66	1.67
21634.00	92.85	162.6	11632.06	S	-9710.54	E	2797.90	10105.54	0.00

Hook Loads

Up :	340	
Down :	150	
Rotating :	250	
Torque :	0	Amps
Torque :	9000.00	ft lbf

Comments

UL 20 STRIPES 38-47 602H

RIG MOBILIZATION BEGAN - 03/08/2018 @ 00:00 HRS.
SPUD WELL @ 00:00 HRS ON 03/12/2018
(96 HR RIG MOVE, NO DIVERTER)

TOTAL HRS FROM SPUD: 744 HRS (31 DAYS)

NOTIFIED TRRC FOR SPUD @ 11:45 HRS 03/10/2018 (OPERATOR #2 AUDREY)
NOTIFIED TRRC FOR SURFACE CSG & CEMENT W/ TRRC JOB #2 AUDREY @ 1145 HRS 03/10/2018
NOTIFIED TRRC FOR INTERMEDIATE CSG & CMT, JOB #124881 (OPERATOR #4 DIANA) @ 02:07 HRS 03/17/2018, DIANA OPERATOR #4.
NOTIFIED TRRC FOR 2ND INTERMEDIATE CMT, JOB # 124881 @ 00:53 HRS, 03/27/2018, DIANA OPERATOR #4

LAST 5" DP INSP. (Red river) CAT- 4 W/ SHEAR WAVE – 03/08/2018.
421 jts kept w/Rig
33 jts sent to fishing tools
128 jts sent to NorAm yard
7 jts. down grade to Energen yd
Sent 16 jts & 1 lift sub to fishing tools

CLEAN/VISUAL INSPECT 742 JTS 4 1/2" DS-42, XX-XX-2018, XXX INSPECTION
742 JTS ACCEPTED BOTH ENDS AS PREMIUM

BHA INSPECTED 04/02/18 - HAD 3 BAD 5" HWDP, 1 BAD 6.5" DC

DAYS SINCE LAST LTA: (1,241 DAYS):
CREW SHORTAGES (LAST 24HRS / TOTAL HRS): NO/NO
CREW DOUBLES (LAST 24 HRS / TOTAL HRS): NO/NO

DOWN TIME HRS (LAST 24HRS / TOTAL HRS): 0.0/ 3.5
NON PRODUCTIVE TIME (LAST 24HRS / TOTAL HRS): 0/31.5

OBM LOST TO WELL (LAST 24 HRS / TOTAL BBLS): 00 - BBLS / 00- BBL
OBM LOST: 0- BBLS TO FORMATION
OBM LOST: 0-BBLS TO CUTTINGS

13-3/8" 61# HCK-55 BTC SURFACE SET AT 437'
10-3/4"45.5# HCN-80 BTC INTERMEDIATE SET AT 4962'
7-5/8" 29.7# HCP-110 BTC SECOND INTERMEDIATE SET @ 12,072' MD, 11,831' TVD

LATERAL #2
BHA #7 CONSISTING OF: 6.75" ULTERRA U513 JETTED WITH 7 x 12'S = .7731 TFA // 5" PHOENIX 1.83 FBH MTR. (6/7LOBE, 6.4 STG., .80 RPG)(MOTOR BORED FOR FLOAT) // FLOAT SUB // 4.75" NMPC // 5" MWD VELOCITY // 4.5" SLICK NMDC // XO SUB // 120-JTS. OF 4.5"DP // XO SUB // SS/AGITATOR // XO SUB // TOTAL BHA = 3901.52'. DEPTH IN: 17,247' // DEPTH OUT: 21,634' // FTG DRILLED: 4387' // TOTAL DRLG HRS: 128.5 // TOTAL MTR. HRS: 137 // ROP: 34FPH // REASON PULLED: CSG POINT //BIT GRADE = X-X-XX
MWD O/S SCRIBE: DAO:102.2DEG

LATERAL #1
BHA #6 CONSISTING OF: 6.75" ULTERRA U513 JETTED WITH 7 x 12'S = .7731 TFA // 5" PHOENIX 1.83 FBH MTR. (6/7LOBE, 6.4 STG., .80 RPG)(MOTOR BORED FOR FLOAT) // FLOAT SUB // 4.75" NMPC // 5" MWD VELOCITY // 4.5" SLICK NMDC // XO SUB // 90-JTS. OF 4.5"DP // XO SUB // SS/AGITATOR // XO SUB // TOTAL BHA = 2954.95'. DEPTH IN: 12,072' // DEPTH OUT: 17,247' // FTG DRILLED: 5165' // TOTAL DRLG HRS: 103.5 // TOTAL MTR. HRS: 103.5 // ROP: 49.7 FPH // REASON PULLED: ROP // BIT GRADE = 7-1
MWD O/S SCRIBE: DAO:7.6DEG

CURVE #1
BHA #5 CONSISTING OF: 9.875" ULTERRA CF613 JETTED WITH 3 x16'S x 3 x 18'S = 1.33 TFA // 7.75" PHOENIX MTR. 2.38° ADJ., (4/5LOBE, 5.3 STG., .253 REV/GAL) // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC // 1- XO SUB // 36-JTS. OF 5"DP // 15JTS. 5" HWDP // TOTAL BHA = 1678.92' // DEPTH IN: 11,120' // DEPTH OUT: 12082" // FTG DRILLED: 962' // TOTAL DRLG HRS: 28.5 // TOTAL MTR. HRS: 28.5 // ROP: 33.7 FPH // REASON PULLED: CSG POINT // BIT GRADE = 2-2-IG

STARTING RIG FUEL - 3200 GALLONS TRANSFERRED IN .

DIESEL USAGE:
RIG FUEL (DAILY/TOTAL): 1,601/52,259 GALS
MUD DIESEL (DAILY/TOTAL 1,738/ 29,288/GALS
AUXILIARY EQUIPMENT (DAILY/TOTAL): 136/ 3,322 GALS
CERTARUS GAS (DAILY/TOTAL) 925.75 / 13,780.81

NO LEAKS OR SPILLS REPORTED OR OBSERVED

Solids Removal

Shakers

Shaker #	Bottom	Middle	Top	

Other Solids Removal Equipment

Item	Hrs Run	Intake Density (lbs/gal)	Overflow Density (lbs/gal)	Underflow Density (lbs/gal)	

Mud Log

Formation : Wolfcamp A Shale
Background Gas :
Connection Gas :
Flare Length :
Trip Calc :

Well Incident

Report # :
Incident Date :
Report Date :
Problem Name :

Daily Drilling Report P1

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 36 Report Date : 4/12/2018

Financials

Daily Cost : $65,981 Cost to Date : $3,533,731

AFE # : PB18100003

AFE : $10,772,650 AFE Cost to Date : $3,533,731

Operations

Event Objective : Noram 27 D&C DB DEV WC A Event Sub Type : Drilling Prod

A.M. Ops : 00:00 - 06:00: L/D DP. F/6,485' - T/BHA

Ops Forecast : FINISH L/D DP. & BHA, R/U & RUN PROD. CSG.

24hr. Summary : POOH, L/D DP., F/16,850' - T/6,485', SLIP AND CUT D/L, SERVICE RIG

Planning Status :

Elevations

GL 2772.00 ft Reserve Pit Freeboard : 0.00 ft

Progress

Days from Spud : 31 Progress : 0.00 ft MD at Report Time : 21634.00 ft

Rig on Location (days) : 36 Est. TD : 21672.00 ft TVD At Report Time : 0.00 ft

Event Dates

Spud Date	Spud Time	Suspended Drilling Date	Resume Drilling Date	Total Depth Date	Total Depth Time	Finished Drilling Date	Finished Drilling Time	Rig Released Date	Rig Released Time
3/12/2018	00:00			4/11/2018	13:00				

Time Breakdown

Start Time : 00:00 Initial Depth : 0.00 ft Drilling Hours : 0.00 Total Drilling Hours : 431.50 Total Hours : 24.00 Time Code : TRIPPING -

Drilling % : 0.00 Rotating % : 0.00 Sliding % : 0.00

Start Time	End Time	Hours	Phase	Activity		NPT	Bit #	Run #	Depth (ft)	Remarks
				Time Code	Description					
00:00	02:00	2.00	CSGPRO	08D	TRIPPING - CASING / LINER	No	7	1	21634.00	PULL OUT OF THE HOLE FROM 16,850' TO 13,415'
02:00	04:00	2.00	CSGPRO	08D	TRIPPING - CASING / LINER	No	7	1	21634.00	L/D DP. F/13,415' - T/10,240'
04:00	05:00	1.00	CSGPRO	12A	SLIP & CUT DRLG LINE - LINE	No	7	1	21634.00	SLIP AND CUT DRILL LINE
05:00	09:30	4.50	CSGPRO	08D	TRIPPING - CASING / LINER	No	7	1	21634.00	L/D DP. F/10,240' - T/5,048'
09:30	12:30	3.00	CSGPRO	08D	TRIPPING - CASING / LINER	No	7	1	21634.00	TIH STDS. IN DERRICK F/5,058' - T/9,795'
12:30	17:00	4.50	CSGPRO	08D	TRIPPING - CASING / LINER	No	7	1	21634.00	L/D DP. F/9,795' - T/6,000'
17:00	17:30	0.50	CSGPRO	10A	LUB RIG - DAILY SERVICE	No	7	1	21634.00	SERVICE RIG CHANGE BLOWN HOSE ON IRON ROUGHNECK
17:30	19:00	1.50	CSGPRO	08D	TRIPPING - CASING / LINER	No	7	1	21634.00	L/D DP. F/6,000' - T/5,396'
19:00	21:00	2.00	CSGPRO	08D	TRIPPING - CASING / LINER	No	7	1	21634.00	TIH REMAINING STDS. IN DERRICK F/5,396' - T/9,205'
21:00	00:00	3.00	CSGPRO	08D	TRIPPING - CASING / LINER	No	7	1	21634.00	L/D DP. F/9,205' - T/6,485'

Personnel Hours

Vendor	Vendor Type	Number Of People	Hours On Site	Total Hours
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00
NORAM DRILLING COMPANY	TOOLPUSHER	1	24.00	24.00
NORAM DRILLING COMPANY	RIG CREWS	12	24.00	288.00
AES DRILLING FLUIDS LLC	1- MAN CREW	1	24.00	24.00
PHOENIX DIRECTIONAL DRILLERS	4- MAN CREW	4	24.00	96.00
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00

Rig Information

KB Elevation: 2797.00 ft KB To GL : 25.00 ft

Rig(s) for today : Noram 27 Rig Manager : TOBY JOHNSON Rig Phone : 432-219-0731

Date and Time of Rig Release : Days From Rig Release : 0.00 Rig Fax :

Safety

Last BOP Test(F) Date	3/29/2018	Last BOP Pressure	8500.000 psi	Last Lot Fit	14.50
Last Csg Date	3/19/2018	Last Csg Pressure	1500.000 psi	Last Spills Reported	N
Last BOP Drill Date	4/9/2018	Last Test MW	12.50	Last Accidents	N
Last Fire Drill		Last Test TVD	11831.00 ft	Last Safety Meeting	4/12/2018 19:00
Last Evac Drill		Last Test Pressure	1230.000 psi	Last Safety Meeting Topic	LAYING DOWN DP

Contacts

Day Sup.	WAYLON TRAMMELL	Phone		Superintendent	SANTOS MOROLES	Phone	432-559-4901
Night Sup.	CHRIS KEIS	Phone		Geologist		Phone	

Daily Drilling Report P2

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 36 Report Date : 4/12/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Mud Data

Mud Engineer : J. BENGE Mud Type : Oil Base Mud Polymer Type :

Chk	Time	Depth (ft)	Density (lbs/gal)	FV (s/qt)	YP (lbs/100 ft²)	PV (cP)	WL (cc/30 min)	Cl (ppm)	Electro Static Stability	Oil Ratio	H2O Ratio	HTHP Water Loss(cc/30 min)
1	08:00	21634.	12.80000	70.00	14	25.00	0.0	43000	440.0	75	25	6.0
2	20:00	21634.	12.80000	73.00	13	27.00	0.0	41000	432.0	75	25	5.8

Bit Data

Bit #	Run #	Size (in)	Mfg.	Model	IADC Code	Daily Drilled (ft)	Daily Hours	Daily ROP (ft/hr)	Cum Drilled (ft)	Cum Hrs.	Avg. ROP (ft/hr)	Depth In (ft)	Depth Out (ft)	Max WOB (M Lbs)	PSI Drop (psi)	Nozzle Velocity (ft/s)	HHP (HP)
7	1	6.750	ULTERRA	U513M		0.00	0.00	0.00	4387.00	128.50	34.14	21634.00	21634.00	19.000	173.356	123.06	30.01

BHA Data

For Bit # : 7 Mud Motor : Total Made : 0 ft

Total BHA Hours : 459.0 Total Hours : 0.00

BHA # : 07 DC OD : 4.750 in DP OD : 4.500 in BHA Length : 3901.52 ft BHA Weight 0.00 M Lbs

Item	Jts	Length (ft)	OD (in)	ID (in)	Coupling OD (in)	Weight (lbs/ft)	Thread Type	Pin/Box
BITS	1	1.00	6.750	0.000	0.000	0.000		Pin
MUD MOTOR	1	25.74	5.000	0.000	0.000	0.000		
FLOAT SUB	1	2.07	4.625	2.688	0.000	0.000		
NON- MAG COLLAR	1	7.66	4.625	2.688	0.000	0.000		
CROSSOVER SUB	1	1.89	5.125	3.250	0.000	0.000		
SUBS	1	3.43	5.130	0.000	0.000	0.000		
SUBS	1	8.34	5.180	0.000	0.000	0.000		
GAP SUB	1	3.77	5.060	0.000	0.000	0.000		
NON- MAG COLLAR	1	27.08	4.500	2.750	0.000	0.000		
CROSSOVER SUB	1	4.01	5.310	2.500	0.000	0.000		
DRILLPIPE	120	3786.11	4.500	2.826	0.000	0.000		
CROSSOVER SUB	1	4.04	5.188	3.000	0.000	0.000		
SHOCK SUB	1	22.33	5.000	0.000	0.000	0.000	XT-39	
CROSSOVER SUB	1	4.05	5.188	2.625	0.000	0.000	XT-39	Box

Drilling Parameters

Bit #	Run #	Depth (ft)	WOB (M Lbs)	RPM		GPM	Torque		String Weight			Pressure		
				Motor	Rotary		On Bom (ft lbf)	Off Bom (ft lbf)	Pick Up (lbs)	Stack Off (lbs)	Rotate (lbs)	On Bom (psi)	Off Bom (psi)	Diff Press. (psi)
7	1	0.00	19.000	236	75	296	17000.00	9000.00	340	150	250	5400.0	4600.0	800.0

Pump Data

Bit #	Pump 1					Pump 2					Pump Pressure (psi)	AV DC (ft/min)	AV DP (ft/min)
	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)			
7	CE FB1600	12.000	5.000	0	0.000	CE FB1600	12.000	5.000	102	296.546	4500.00	316	287

Reduced Speed Pumps

Depth(ft)	Pump 1			Pump 2		
	Model	Pressure (psi)	SPM	Model	Pressure (psi)	SPM
0.00	CE FB1600	0.0	0	CE FB1600	1280.0	30
0.00	CE FB1600	0.0	0	CE FB1600	1540.0	40
0.00	CE FB1600	0.0	0	CE FB1600	2240.0	60

Daily Drilling Report P3

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 36 Report Date : 4/12/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Drill Bottom Hole Targets

Bottom Hole Location	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Survey Data

Depth (ft)	Deviation	Azimuth	TVD (ft)	N/S	N/S (ft)	E/W	E/W (ft)	Vertical Section (ft)	Dog Leg
21634.00	92.85	162.6	11632.06	S	-9710.54	E	2797.90	10105.54	0.00

Hook Loads

Up :	0	
Down :	0	
Rotating :	0	
Torque :	0	Amps
Torque :	0.00	ft lbf

Comments

UL 20 STRIPES 38-47 602H

RIG MOBILIZATION BEGAN - 03/08/2018 @ 00:00 HRS.
SPUD WELL @ 00:00 HRS ON 03/12/2018
(96 HR RIG MOVE, NO DIVERTER)

TOTAL HRS FROM SPUD: 768 HRS (32 DAYS)

NOTIFIED TRRC AS FOLLOWS: (JOB # 124881)
SPUD @ 11:45 HRS 03/10/2018, OPERATOR #2 AUDREY
SURF CSG & CMT @ 11:45 HRS 03/10/2018, OPERATOR #2 AUDREY
1ST INT. CSG & CMT @ 02:07 HRS 03/17/2018, DIANA OPERATOR #4
2ND INT CSG & CMT @ 00:53 HRS, 03/27/2018, DIANA OPERATOR #4
PROD. CSG & CMT @ 12:49 HRS, 4/12/2018, SARAH TRRC

LAST 5" DP INSP. (Red river) CAT- 4 W/ SHEAR WAVE – 03/08/2018.
421 jts kept w/Rig
33 jts sent to fishing tools
128 jts sent to NorAm yard
7 jts. down grade to Energen yd
Sent 16 jts & 1 lift sub to fishing tools

CLEAN/VISUAL INSPECT 742 JTS 4 1/2" DS-42, XX-XX-2018, XXX INSPECTION
742 JTS ACCEPTED BOTH ENDS AS PREMIUM

BHA INSPECTED 04/02/18 - HAD 3 BAD 5" HWDP, 1 BAD 6.5" DC

DAYS SINCE LAST LTA: (1,241 DAYS):
CREW SHORTAGES (LAST 24HRS / TOTAL HRS): NO/NO
CREW DOUBLES (LAST 24 HRS / TOTAL HRS): NO/NO

DOWN TIME HRS (LAST 24HRS / TOTAL HRS): 0.0/ 3.5
NON PRODUCTIVE TIME (LAST 24HRS / TOTAL HRS): 0/31.5

OBM LOST TO WELL (LAST 24 HRS / TOTAL BBLS): 00 - BBLS / 00- BBL

OBM LOST: 0- BBLS TO FORMATION
OBM LOST: 0-BBLS TO CUTTINGS

13-3/8" 61# HCK-55 BTC SURFACE SET AT 437'
10-3/4"45.5# HCN-80 BTC INTERMEDIATE SET AT 4962'
7-5/8" 29.7# HCP-110 BTC SECOND INTERMEDIATE SET @ 12,072' MD, 11,831' TVD

LATERAL #2
BHA #7 CONSISTING OF: 6.75" ULTERRA U513 JETTED WITH 7 x 12'S = .7731 TFA // 5" PHOENIX 1.83 FBH MTR. (6/7LOBE, 6.4 STG., .80 RPG)(MOTOR BORED FOR FLOAT) // FLOAT SUB // 4.75" NMPC // 5" MWD VELOCITY // 4.5" SLICK NMDC // XO SUB // 120-JTS. OF 4.5"DP // XO SUB // SS/AGITATOR // XO SUB // TOTAL BHA = 3901.52'. DEPTH IN: 17,247' // DEPTH OUT: 21,634' // FTG DRILLED: 4387' // TOTAL DRLG HRS: 128.5 // TOTAL MTR. HRS: 137 // ROP: 34FPH // REASON PULLED: CSG POINT //BIT GRADE = X-X-XX
MWD O/S SCRIBE: DAO:102.2DEG

LATERAL #1
BHA #6 CONSISTING OF: 6.75" ULTERRA U513 JETTED WITH 7 x 12'S = .7731 TFA // 5" PHOENIX 1.83 FBH MTR. (6/7LOBE, 6.4 STG., .80 RPG)(MOTOR BORED FOR FLOAT) // FLOAT SUB // 4.75" NMPC // 5" MWD VELOCITY // 4.5" SLICK NMDC // XO SUB // 90-JTS. OF 4.5"DP // XO SUB // SS/AGITATOR // XO SUB // TOTAL BHA = 2954.95'. DEPTH IN: 12,072' // DEPTH OUT: 17,247' // FTG DRILLED: 5165' // TOTAL DRLG HRS: 103.5 // TOTAL MTR. HRS: 103.5 // ROP: 49.7 FPH // REASON PULLED: ROP // BIT GRADE = 7-1
MWD O/S SCRIBE: DAO:7.6DEG

CURVE #1
BHA #5 CONSISTING OF: 9.875" ULTERRA CF613 JETTED WITH 3 x16'S x 3 x 18'S = 1.33 TFA // 7.75" PHOENIX MTR. 2.38° ADJ., (4/5LOBE, 5.3 STG., .253 REV/GAL) // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC // 1- XO SUB // 36-JTS. OF 5"DP // 15JTS. 5" HWDP // TOTAL BHA = 1678.92' // DEPTH IN: 11,120' // DEPTH OUT: 12082" // FTG DRILLED: 962' // TOTAL DRLG HRS: 28.5 // TOTAL MTR. HRS: 28.5 // ROP: 33.7 FPH // REASON PULLED: CSG POINT // BIT GRADE = 2-2-IG

STARTING RIG FUEL - 3200 GALLONS TRANSFERRED IN .

DIESEL USAGE:
RIG FUEL (DAILY/TOTAL): 847/53,106 GALS
MUD DIESEL (DAILY/TOTAL 0.0/ 29,288/GALS
AUXILIARY EQUIPMENT (DAILY/TOTAL): 0.0/ 3,322 GALS
CERTARUS GAS (DAILY/TOTAL) 823.66 / 14,604.47

NO LEAKS OR SPILLS REPORTED OR OBSERVED

Solids Removal

Shakers

Shaker #	Bottom	Middle	Top

Other Solids Removal Equipment

Item	Hrs Run	Intake Density (lbs/gal)	Overflow Density (lbs/gal)	Underflow Density (lbs/gal)

Mud Log

Formation : Wolfcamp A Shale
Background Gas :
Connection Gas :
Flare Length :
Trip Calc :

Well Incident

Report # :
Incident Date :
Report Date :
Problem Name :

Daily Drilling Report P1

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 37 Report Date : 4/13/2018

Financials

Daily Cost : $46,436 Cost to Date : $3,580,168

AFE # : PB18100003

AFE : $10,772,650 AFE Cost to Date : $3,580,168

Operations

Event Objective : Noram 27 D&C DB DEV WC A Event Sub Type : Drilling Prod

A.M. Ops : 00:00 - 06:00: SWAP OVER 4.5"-5" TOOLS, R/U CRT, RUN PROD. CSG F/9,687' - T/16,000'

Ops Forecast : LAND PROD CSG, R/U CEMT. AND CEMT. PROD. CSG, NIPPLE DOWN/SET SLIPS

24hr. Summary : L/D DP., AND BHA, R/U AND RUN PROD. CSG F/SURF. - T/9,687'

Planning Status :

Elevations

GL 2772.00 ft Reserve Pit Freeboard : 0.00 ft

Progress

Days from Spud : 32 Progress : 0.00 ft MD at Report Time : 21634.00 ft

Rig on Location (days) : 37 Est. TD : 21672.00 ft TVD At Report Time : 0.00 ft

Event Dates

Spud Date	Spud Time	Suspended Drilling Date	Resume Drilling Date	Total Depth Date	Total Depth Time	Finished Drilling Date	Finished Drilling Time	Rig Released Date	Rig Released Time
3/12/2018	00:00			4/11/2018	13:00				

Time Breakdown

Start Time : 00:00 Initial Depth : 0.00 ft Drilling Hours : 0.00 Total Drilling Hours : 431.50 Total Hours : 24.00 Time Code : RUN CASIN

Drilling % : 0.00 Rotating % : 0.00 Sliding % : 0.00

Start Time	End Time	Hours	Phase	Activity Time Code	Activity Description	NPT	Bit #	Run #	Depth (ft)	Remarks
00:00	07:00	7.00	CSGPRO	08D	TRIPPING - CASING / LINER	No	7	1	21634.00	L/D DP. F/6,485' - T/BHA, LAY DOWN BHA
07:00	09:30	2.50	CSGPRO	08D	TRIPPING - CASING / LINER	No	7	1	21634.00	PULL WEAR BUSHING, CLEAN RIG FLOOR, C/O SAVER SUB/DIE BLOCKS/STABBING GUIDE FOR CRT CONNECTION
09:30	11:00	1.50	CSGPRO	15A	RUN CASING - RU/RD EQUIPMENT	No	7	1	21634.00	HOLD PRE JOB SAFETY MEETING, R/U CSG. EQUIP.
11:00	18:00	7.00	CSGPRO	15B	RUN CASING - CSG/ LNR/ TIEBACK	No	7	1	21634.00	RUN CSG. F/SURF. - T/5,575', TAKING RETURNS TO TRIP TANK, MONITOR DISP., DISP. GOOD RUN PROD. CSG AS FOLLOWS 4.5" 15# CYP110 ULTRA DQXHT 5.5" 23# CYP110 ULTRA DQXHT RUN 1- DOUBLE FLOAT SHOE RUN 1 JT. 4.5 CSG. RUN 1 FLOAT COLLAR RUN 1 LANDING COLLAR RUN 1 JT. 4.5" CSG. RUN 1 GLOBE TOE VALVE- DISC 26 RUN 1 JT. 4.5" CSG. AND FRAC SLEEVE EVERY JT FOR A TOTAL OF 32 FRAC SLEEVES RUN 211 JT. 4.5" CSG RUN 1 CSG. XO 4.5" - 5.5" RUN 20 JT. 5.5" CSG RUN ONE MARKER JT. RUN 250 JT 5.5" CSG BACK TO SURFACE
18:00	22:30	4.50	CSGPRO	15B	RUN CASING - CSG/ LNR/ TIEBACK	No	7	1	21634.00	RUN CSG. F/5,575' - T/9687', TAKING RETURNS TO TRIP TANK, MONITOR DISP., DISP. GOOD RUN PROD. CSG AS FOLLOWS 4.5" 15# CYP110 ULTRA DQXHT 5.5" 23# CYP110 ULTRA DQXHT RUN 1- DOUBLE FLOAT SHOE RUN 1 JT. 4.5 CSG. RUN 1 FLOAT COLLAR RUN 1 LANDING COLLAR RUN 1 JT. 4.5" CSG. RUN 1 GLOBE TOE VALVE- DISC 26 RUN 1 JT. 4.5" CSG. AND FRAC SLEEVE EVERY JT FOR A TOTAL OF 32 FRAC SLEEVES RUN 211 JT. 4.5" CSG RUN 1 CSG. XO 4.5" - 5.5" RUN 20 JT. 5.5" CSG RUN ONE MARKER JT. RUN 250 JT 5.5" CSG BACK TO SURFACE
22:30	00:00	1.50	CSGPRO	15A	RUN CASING - RU/RD EQUIPMENT	No	7	1	21634.00	PULL TRIP NIPPLE, INSTALL ROTATING HEAD, CHANGE OUT 4.5" TO 5" TOOLS, R/U CRT AND TEST, MONITOR WELL ON TRIP TANK, WELL STATIC

Personnel Hours

Vendor	Vendor Type	Number Of People	Hours On Site	Total Hours
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00

NORAM DRILLING COMPANY	TOOLPUSHER	1	24.00	24.00
NORAM DRILLING COMPANY	RIG CREWS	12	24.00	288.00
AES DRILLING FLUIDS LLC	1- MAN CREW	1	24.00	24.00
PHOENIX DIRECTIONAL DRILLERS	4- MAN CREW	4	24.00	96.00
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00

Rig Information

KB Elevation:	2797.00 ft	KB To GL :	25.00 ft		
Rig(s) for today :	Noram 27	Rig Manager :	TOBY JOHNSON	Rig Phone :	432-219-0731
Date and Time of Rig Release :		Days From Rig Release :	0.00	Rig Fax :	

Safety

Last BOP Test(F) Date :	3/29/2018	Last BOP Pressure :	8500.000 psi	Last Lot Fit :	14.50
Last Csg Date :	3/19/2018	Last Csg Pressure :	1500.000 psi	Last Spills Reported :	N
Last BOP Drill Date :	4/9/2018	Last Test MW :	12.50	Last Accidents :	N
Last Fire Drill :		Last Test TVD :	11831.00 ft	Last Safety Meeting :	4/13/2018 19:00
Last Evac Drill :		Last Test Pressure :	1230.000 psi	Last Safety Meeting Topic	RUNNING CSG.

Contacts

Day Sup. :	WAYLON TRAMMELL	Phone :		Superintendent :	SANTOS MOROLES	Phone :	432-559-4901
Night Sup. :	CHRIS KEIS	Phone :		Geologist :		Phone :	
Alt. Phone :				Drill. Eng. :	RICHARD HILL	Phone :	432-818-1726

Attachments

Daily Attachment Folder(s)

Daily Drilling Report P2

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 37 Report Date : 4/13/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Mud Data

Mud Engineer : J. BENGE Mud Type : Oil Base Mud Polymer Type :

Chk	Time	Depth (ft)	Density (lbs/gal)	FV (s/qt)	YP (lbs/100 ft²)	PV (cP)	WL (cc/30 min)	Cl (ppm)	Electro Static Stability	Oil Ratio	H2O Ratio	HTHP Water Loss(cc/30 min)
1	08:00	21634.	12.80000	75.00	14	28.00	0.0	43000	474.0	75	25	6.2
2	20:30	21634.	12.80000	73.00	15	26.00	0.0	42000	460.0	75	25	6.4

Bit Data

Bit #	Run #	Size (in)	Mfg.	Model	IADC Code	Daily Drilled (ft)	Daily Hours	Daily ROP (ft/hr)	Cum Drilled (ft)	Cum Hrs.	Avg. ROP (ft/hr)	Depth In (ft)	Depth Out (ft)	Max WOB (M Lbs)	PSI Drop (psi)	Nozzle Velocity (ft/s)	HHP (HP)
7	1	6.750	ULTERRA	U513M		0.00	0.00	0.00	4387.00	128.50	34.14	21634.00	21634.00	19.000	173.356	123.06	30.01

BHA Data

For Bit # : 7 Mud Motor : Total Made : 0 ft

Total BHA Hours : 459.0 Total Hours : 0.00

BHA # : 07 DC OD : 0.000 in DP OD : 0.000 in BHA Length : 3901.52 ft BHA Weight 0.00 M Lbs

Item	Jts	Length (ft)	OD (in)	ID (in)	Coupling OD (in)	Weight (lbs/ft)	Thread Type	Pin/Box
BITS	1	1.00	6.750	0.000	0.000	0.000		Pin
MUD MOTOR	1	25.74	5.000	0.000	0.000	0.000		
FLOAT SUB	1	2.07	4.625	2.688	0.000	0.000		
NON- MAG COLLAR	1	7.66	4.625	2.688	0.000	0.000		
CROSSOVER SUB	1	1.89	5.125	3.250	0.000	0.000		
SUBS	1	3.43	5.130	0.000	0.000	0.000		
SUBS	1	8.34	5.180	0.000	0.000	0.000		
GAP SUB	1	3.77	5.060	0.000	0.000	0.000		
NON- MAG COLLAR	1	27.08	4.500	2.750	0.000	0.000		
CROSSOVER SUB	1	4.01	5.310	2.500	0.000	0.000		
DRILLPIPE	120	3786.11	4.500	2.826	0.000	0.000		
CROSSOVER SUB	1	4.04	5.188	3.000	0.000	0.000		
SHOCK SUB	1	22.33	5.000	0.000	0.000	0.000	XT-39	
CROSSOVER SUB	1	4.05	5.188	2.625	0.000	0.000	XT-39	Box

Drilling Parameters

Bit #	Run #	Depth (ft)	WOB (M Lbs)	RPM		GPM	Torque		String Weight			Pressure		
				Motor	Rotary		On Bom (ft lbf)	Off Bom (ft lbf)	Pick Up (lbs)	Stack Off (lbs)	Rotate (lbs)	On Bom (psi)	Off Bom (psi)	Diff Press. (psi)
7	1	0.00	19.000	236	75	296	17000.00	9000.00	340	150	250	5400.0	4600.0	800.0

Pump Data

Bit #	Pump 1					Pump 2					Pump Pressure (psi)	AV DC (ft/min)	AV DP (ft/min)
	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)			
7	CE FB1600	12.000	5.000	0	0.000	CE FB1600	12.000	5.000	102	296.546	4500.00	0	0

Reduced Speed Pumps

Depth(ft)	Pump 1			Pump 2		
	Model	Pressure (psi)	SPM	Model	Pressure (psi)	SPM
0.00	CE FB1600	0.0	0	CE FB1600	1280.0	30
0.00	CE FB1600	0.0	0	CE FB1600	1540.0	40
0.00	CE FB1600	0.0	0	CE FB1600	2240.0	60

Daily Drilling Report P3

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 37 Report Date : 4/13/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Drill Bottom Hole Targets

Bottom Hole Location	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Survey Data

Depth (ft)	Deviation	Azimuth	TVD (ft)	N/S	N/S (ft)	E/W	E/W (ft)	Vertical Section (ft)	Dog Leg
21634.00	92.85	162.6	11632.06	S	-9710.54	E	2797.90	10105.54	0.00

Hook Loads

Up :	0	
Down :	0	
Rotating :	0	
Torque :	0	Amps
Torque :	0.00	ft lbf

Comments

UL 20 STRIPES 38-47 602H

RIG MOBILIZATION BEGAN - 03/08/2018 @ 00:00 HRS.
SPUD WELL @ 00:00 HRS ON 03/12/2018
(96 HR RIG MOVE, NO DIVERTER)

TOTAL HRS FROM SPUD: 792 HRS (33 DAYS)

NOTIFIED TRRC AS FOLLOWS: (JOB # 124881)
SPUD @ 11:45 HRS 03/10/2018, OPERATOR #2 AUDREY
SURF CSG & CMT @ 11:45 HRS 03/10/2018, OPERATOR #2 AUDREY
1ST INT. CSG & CMT @ 02:07 HRS 03/17/2018, DIANA OPERATOR #4
2ND INT CSG & CMT @ 00:53 HRS, 03/27/2018, DIANA OPERATOR #4
PROD. CSG & CMT @ 12:49 HRS, 4/12/2018, SARAH TRRC

LAST 5" DP INSP. (Red river) CAT- 4 W/ SHEAR WAVE – 03/08/2018.
421 jts kept w/Rig
33 jts sent to fishing tools
128 jts sent to NorAm yard
7 jts. down grade to Energen yd
Sent 16 jts & 1 lift sub to fishing tools

CLEAN/VISUAL INSPECT 742 JTS 4 1/2" DS-42, XX-XX-2018, XXX INSPECTION
742 JTS ACCEPTED BOTH ENDS AS PREMIUM

BHA INSPECTED 04/02/18 - HAD 3 BAD 5" HWDP, 1 BAD 6.5" DC

DAYS SINCE LAST LTA: (1,243 DAYS):
CREW SHORTAGES (LAST 24HRS / TOTAL HRS): NO/NO
CREW DOUBLES (LAST 24 HRS / TOTAL HRS): NO/NO

DOWN TIME HRS (LAST 24HRS / TOTAL HRS): 0.0/ 3.5
NON PRODUCTIVE TIME (LAST 24HRS / TOTAL HRS): 0/31.5

OBM LOST TO WELL (LAST 24 HRS / TOTAL BBLS): 00 - BBLS / 00- BBL

OBM LOST: 0- BBLS TO FORMATION
OBM LOST: 0-BBLS TO CUTTINGS

13-3/8" 61# HCK-55 BTC SURFACE SET AT 437'
10-3/4"45.5# HCN-80 BTC INTERMEDIATE SET AT 4962'
7-5/8" 29.7# HCP-110 BTC SECOND INTERMEDIATE SET @ 12,072' MD, 11,831' TVD

LATERAL #2
BHA #7 CONSISTING OF: 6.75" ULTERRA U513 JETTED WITH 7 x 12'S = .7731 TFA // 5" PHOENIX 1.83 FBH MTR. (6/7LOBE, 6.4 STG., .80 RPG)(MOTOR BORED FOR FLOAT) // FLOAT SUB // 4.75" NMPC // 5" MWD VELOCITY // 4.5" SLICK NMDC // XO SUB // 120-JTS. OF 4.5"DP // XO SUB // SS/AGITATOR // XO SUB // TOTAL BHA = 3901.52'. DEPTH IN: 17,247' // DEPTH OUT: 21,634' // FTG DRILLED: 4387' // TOTAL DRLG HRS: 128.5 // TOTAL MTR. HRS: 137 // ROP: 34FPH // REASON PULLED: CSG POINT //BIT GRADE = 1-1-CT-1-NO-TD
MWD O/S SCRIBE: DAO:102.2DEG

LATERAL #1
BHA #6 CONSISTING OF: 6.75" ULTERRA U513 JETTED WITH 7 x 12'S = .7731 TFA // 5" PHOENIX 1.83 FBH MTR. (6/7LOBE, 6.4 STG., .80 RPG)(MOTOR BORED FOR FLOAT) // FLOAT SUB // 4.75" NMPC // 5" MWD VELOCITY // 4.5" SLICK NMDC // XO SUB // 90-JTS. OF 4.5"DP // XO SUB // SS/AGITATOR // XO SUB // TOTAL BHA = 2954.95'. DEPTH IN: 12,072' // DEPTH OUT: 17,247' // FTG DRILLED: 5165' // TOTAL DRLG HRS: 103.5 // TOTAL MTR. HRS: 103.5 // ROP: 49.7 FPH // REASON PULLED: ROP // BIT GRADE = 7-1
MWD O/S SCRIBE: DAO:7.6DEG

CURVE #1
BHA #5 CONSISTING OF: 9.875" ULTERRA CF613 JETTED WITH 3 x16'S x 3 x 18'S = 1.33 TFA // 7.75" PHOENIX MTR. 2.38° ADJ., (4/5LOBE, 5.3 STG., .253 REV/GAL) // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC // 1- XO SUB // 36-JTS. OF 5"DP // 15JTS. 5" HWDP // TOTAL BHA = 1678.92' // DEPTH IN: 11,120' // DEPTH OUT: 12082" // FTG DRILLED: 962' // TOTAL DRLG HRS: 28.5 // TOTAL MTR. HRS: 28.5 // ROP: 33.7 FPH // REASON PULLED: CSG POINT // BIT GRADE = 2-2-IG

STARTING RIG FUEL - 3200 GALLONS TRANSFERRED IN .

DIESEL USAGE:
RIG FUEL (DAILY/TOTAL): 1,117/54,223 GALS
MUD DIESEL (DAILY/TOTAL 0.0/ 29,288/GALS
AUXILIARY EQUIPMENT (DAILY/TOTAL): 27/ 3,349 GALS
CERTARUS GAS (DAILY/TOTAL) 202.62 / 14,807.09

NO LEAKS OR SPILLS REPORTED OR OBSERVED

Solids Removal

Shakers

Shaker #	Bottom	Middle	Top

Other Solids Removal Equipment

Item	Hrs Run	Intake Density (lbs/gal)	Overflow Density (lbs/gal)	Underflow Density (lbs/gal)

Mud Log

Formation : Wolfcamp A Shale
Background Gas :
Connection Gas :
Flare Length :
Trip Calc :

Well Incident

Report # :
Incident Date :
Report Date :
Problem Name :

Daily Drilling Report P1

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 38 Report Date : 4/14/2018

Financials

Daily Cost : $561,948 Cost to Date : $4,118,326

AFE # : PB18100003

AFE : $10,772,650 AFE Cost to Date : $4,118,326

Operations

Event Objective : Noram 27 D&C DB DEV WC A Event Sub Type : Drilling Prod

A.M. Ops : 00:00-06:00 WAIT ON CMT. UNTIL 02:00, OPEN WELL, WELL STATIC, N/D & SET SLIPS, CUT CSG., CONT. N/D & FINAL CUT

Ops Forecast : N/D, INSTALL NIGHT CAP, R/D & MOVE TO THE UL 20 STRIPES 38-47 604H

24hr. Summary : RUN CSG. F/9,687' - T/21,614', CMT. PROD. CSG., WAIT ON CMT.

Planning Status :

Elevations

GL 2772.00 ft Reserve Pit Freeboard : 0.00 ft

Progress

Days from Spud : 33 Progress : 0.00 ft MD at Report Time : 21634.00 ft

Rig on Location (days) : 38 Est. TD : 21672.00 ft TVD At Report Time : 0.00 ft

Event Dates

Spud Date	Spud Time	Suspended Drilling Date	Resume Drilling Date	Total Depth Date	Total Depth Time	Finished Drilling Date	Finished Drilling Time	Rig Released Date	Rig Released Time
3/12/2018	00:00			4/11/2018	13:00				

Time Breakdown

Start Time : 00:00 Initial Depth : 0.00 ft Drilling Hours : 0.00 Total Drilling Hours : 431.50 Total Hours : 24.00 Time Code : CEMENTIN

Drilling % : 0.00 Rotating % : 0.00 Sliding % : 0.00

Start Time	End Time	Hours	Phase	Activity		NPT	Bit #	Run #	Depth (ft)	Remarks
				Time Code	Description					
00:00	06:00	6.00	CSGPRO	15B	RUN CASING - CSG/ LNR/ TIEBACK	No			21634.00	RUN CSG. F/ 9, 687' - T/ 16, 000', TAKING RETURNS TO TRIP TANK, MONITOR DISP., DISP. GOOD RUN PROD. CSG AS FOLLOWS 4. 5" 15# CYP110 ULTRA DQXHT 5. 5" 23# CYP110 ULTRA DQXHT RUN 1- DOUBLE FLOAT SHOE RUN 1 JT. 4. 5 CSG. RUN 1 FLOAT COLLAR RUN 1 LANDING COLLAR RUN 1 JT. 4. 5" CSG. RUN 1 GLOBE TOE VALVE- DISC 26 RUN 1 JT. 4. 5" CSG. AND FRAC SLEEVE EVERY JT FOR A TOTAL OF 32 FRAC SLEEVES RUN 211 JT. 4. 5" CSG RUN 1 CSG. XO 4. 5" - 5. 5" RUN 20 JT. 5. 5" CSG RUN ONE MARKER JT. RUN 250 JT 5. 5" CSG BACK TO SURFACE
06:00	11:30	5.50	CSGPRO	15B	RUN CASING - CSG/ LNR/ TIEBACK	No			21634.00	RUN CSG. F/ 16, 000' - T/ 21, 614', TAKING RETURNS TO TRIP TANK, MONITOR DISP., DISP. GOOD RUN PROD. CSG AS FOLLOWS 4. 5" 15# CYP110 ULTRA DQXHT 5. 5" 23# CYP110 ULTRA DQXHT RUN 1- DOUBLE FLOAT SHOE RUN 1 JT. 4. 5 CSG. RUN 1 FLOAT COLLAR RUN 1 LANDING COLLAR RUN 1 JT. 4. 5" CSG. RUN 1 GLOBE TOE VALVE- DISC 26 RUN 1 JT. 4. 5" CSG. AND FRAC SLEEVE EVERY JT FOR A TOTAL OF 32 FRAC SLEEVES RUN 211 JT. 4. 5" CSG RUN 1 CSG. XO 4. 5" - 5. 5" RUN 20 JT. 5. 5" CSG RUN ONE MARKER JT. RUN 250 JT 5. 5" CSG BACK TO SURFACE
11:30	14:30	3.00	CSGPRO	07D	C & C MUD - DOWN CASING	No			21634.00	CIRC. MIN. 1X - CAP. WHILE RIGGING DOWN CSG. EQUIP. AND CRT, R/ U CEMT. EQUIP.
										HOLD S/ M W/ C& J ENERGY SERV., FILL LINES AND TEST T/ 7, 000PSI, PUMP CEMT JOB AS FOLLOWS SPACER 40BBLS OF 13. 5PPG WEIGHTED SPACER TAIL 1435SX, 307BBLS, 14. 5PPG, YIELD 1. 2, MIX WATER 5. 2 (GAL/ SACK), 50% POZ + 50% CLASS H + 2% GEL + . 5% F1 - 17 + 0. 75 - GAL/ 100 - SX CF - 41L + 0. 07 - GPSC - 20L DISP., 20BBLS SUGAR WATER (300LBS. SUGAR)

14:30	18:00	3.50	CSGPRO	16B	CEMENTING - PRIMARY	No			21634.00	DISP., 370. 3BBLS OF CACL2 WATER + 1/ 4GPT. PLEXICDE 24L (4GAL) HAD GOOD RETURNS/ GOOD PSI LIFT., NO CMT. TO SURFACE, CALC. TOC @ 7, 831' BUMP PLUG @ 14: 00 HRS W/ 4, 400 PSI, 600 PSI OVER FINAL PP. **** PUMP PRESSURE IMMEDIATELY BEGAN TO FALL, FELL TO 2, 450 PSI., BLEED BACK 2. 5BBLS, FLUID WAS STILL FLOWING BACK, PUMPED 2. 5 BBLS BACK DOWN HOLE TO 3400 PSI, PRESSURE CONTINUED TO FALL TO 2, 100 PSI AND HELD, BLEED PRESSURE OFF, TIED CMT. HEAD INTO STAND PIPE, CLOSED 4" ON PUMPS AND STAND PIPE, CLOSED ANNULAR, CLOSED CHOKES, OPENED HCR, MONITOR AND HOLD PRESSURE FOR 8 HOURS
18:00	00:00	6.00	CSGPRO	16C	CEMENTING - WOC (NORMAL)	No			21634.00	WELL SHUT IN, HOLD AND MONITOR PSI.

Personnel Hours

Vendor	Vendor Type	Number Of People	Hours On Site	Total Hours
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00
NORAM DRILLING COMPANY	TOOLPUSHER	1	24.00	24.00
NORAM DRILLING COMPANY	RIG CREWS	12	24.00	288.00
AES DRILLING FLUIDS LLC	1- MAN CREW	1	24.00	24.00
PHOENIX DIRECTIONAL DRILLERS	4- MAN CREW	4	24.00	96.00
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00

Rig Information

KB Elevation:	2797.00 ft	KB To GL :	25.00 ft		
Rig(s) for today :	Noram 27	Rig Manager :	TOBY JOHNSON	Rig Phone :	432-219-0731
Date and Time of Rig Release :		Days From Rig Release :	0.00	Rig Fax :	

Safety

Last BOP Test(F) Date :	3/29/2018	Last BOP Pressure :	8500.000 psi	Last Lot Fit :	14.50
Last Csg Date :	3/19/2018	Last Csg Pressure :	1500.000 psi	Last Spills Reported :	N
Last BOP Drill Date :	4/9/2018	Last Test MW :	12.50	Last Accidents :	N
Last Fire Drill :		Last Test TVD :	11831.00 ft	Last Safety Meeting :	4/14/2018 19:00
Last Evac Drill :		Last Test Pressure :	1230.000 psi	Last Safety Meeting Topic	NIPPLE DOWN

Contacts

Day Sup. :	WAYLON TRAMMELL	Phone :		Superintendent :	SANTOS MOROLES	Phone :	432-559-4901
Night Sup. :	CHRIS KEIS	Phone :		Geologist :		Phone :	
Alt. Phone :				Drill. Eng. :	RICHARD HILL	Phone :	432-818-1726

Attachments

Daily Attachment Folder(s)

Daily Drilling Report P2

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 38 Report Date : 4/14/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Mud Data

Mud Engineer : J. BENGE Mud Type : Oil Base Mud Polymer Type :

Chk	Time	Depth (ft)	Density (lbs/gal)	FV (s/qt)	YP (lbs/100 ft²)	PV (cP)	WL (cc/30 min)	Cl (ppm)	Electro Static Stability	Oil Ratio	H2O Ratio	HTHP Water Loss(cc/30 min)
1	08:00	21634.	12.90000	94.00	15	27.00	0.0	43000	481.0	75	25	6.0
2	15:00	21634.	12.80000	90.00	14	27.00	0.0	41000	455.0	75	25	6.0

Bit Data

Bit #	Run #	Size (in)	Mfg.	Model	IADC Code	Daily Drilled (ft)	Daily Hours	Daily ROP (ft/hr)	Cum Drilled (ft)	Cum Hrs.	Avg. ROP (ft/hr)	Depth In (ft)	Depth Out (ft)	Max WOB (M Lbs)	PSI Drop (psi)	Nozzle Velocity (ft/s)	HHP (HP)
7	1	6.750	ULTERRA	U513M		0.00	0.00	0.00	4387.00	128.50	34.14	21634.00	21634.00	19.000	173.356	123.06	30.01

BHA Data

For Bit # : 7 Mud Motor : Total Made : 0 ft

Total BHA Hours : 462.0 Total Hours : 0.00

BHA # : 07 DC OD : 0.000 in DP OD : 0.000 in BHA Length : 3901.52 ft BHA Weight 0.00 M Lbs

Item	Jts	Length (ft)	OD (in)	ID (in)	Coupling OD (in)	Weight (lbs/ft)	Thread Type	Pin/Box
BITS	1	1.00	6.750	0.000	0.000	0.000		Pin
MUD MOTOR	1	25.74	5.000	0.000	0.000	0.000		
FLOAT SUB	1	2.07	4.625	2.688	0.000	0.000		
NON- MAG COLLAR	1	7.66	4.625	2.688	0.000	0.000		
CROSSOVER SUB	1	1.89	5.125	3.250	0.000	0.000		
SUBS	1	3.43	5.130	0.000	0.000	0.000		
SUBS	1	8.34	5.180	0.000	0.000	0.000		
GAP SUB	1	3.77	5.060	0.000	0.000	0.000		
NON- MAG COLLAR	1	27.08	4.500	2.750	0.000	0.000		
CROSSOVER SUB	1	4.01	5.310	2.500	0.000	0.000		
DRILLPIPE	120	3786.11	4.500	2.826	0.000	0.000		
CROSSOVER SUB	1	4.04	5.188	3.000	0.000	0.000		
SHOCK SUB	1	22.33	5.000	0.000	0.000	0.000	XT-39	
CROSSOVER SUB	1	4.05	5.188	2.625	0.000	0.000	XT-39	Box

Drilling Parameters

Bit #	Run #	Depth (ft)	WOB (M Lbs)	RPM		GPM	Torque		String Weight			Pressure		
				Motor	Rotary		On Bom (ft lbf)	Off Bom (ft lbf)	Pick Up (lbs)	Stack Off (lbs)	Rotate (lbs)	On Bom (psi)	Off Bom (psi)	Diff Press. (psi)
7	1	0.00	19.000	236	75	296	17000.00	9000.00	340	150	250	5400.0	4600.0	800.0

Pump Data

Bit #	Pump 1					Pump 2					Pump Pressure (psi)	AV DC (ft/min)	AV DP (ft/min)
	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)			
7	CE FB1600	12.000	5.000	0	0.000	CE FB1600	12.000	5.000	102	296.546	4500.00	0	0

Reduced Speed Pumps

Depth(ft)	Pump 1			Pump 2		
	Model	Pressure (psi)	SPM	Model	Pressure (psi)	SPM
0.00	CE FB1600	0.0	0	CE FB1600	1280.0	30
0.00	CE FB1600	0.0	0	CE FB1600	1540.0	40
0.00	CE FB1600	0.0	0	CE FB1600	2240.0	60

Daily Drilling Report P3

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 38 Report Date : 4/14/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Drill Bottom Hole Targets

Bottom Hole Location	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Survey Data

Depth (ft)	Deviation	Azimuth	TVD (ft)	N/S	N/S (ft)	E/W	E/W (ft)	Vertical Section (ft)	Dog Leg
21634.00	92.85	162.6	11632.06	S	-9710.54	E	2797.90	10105.54	0.00

Hook Loads

Up :	0	
Down :	0	
Rotating :	0	
Torque :	0	Amps
Torque :	0.00	ft lbf

Comments

UL 20 STRIPES 38-47 602H

RIG MOBILIZATION BEGAN - 03/08/2018 @ 00:00 HRS.
SPUD WELL @ 00:00 HRS ON 03/12/2018
(96 HR RIG MOVE, NO DIVERTER)

TOTAL HRS FROM SPUD: 816 HRS (34 DAYS)

NOTIFIED TRRC AS FOLLOWS: (JOB # 124881)
SPUD @ 11:45 HRS 03/10/2018, OPERATOR #2 AUDREY
SURF CSG & CMT @ 11:45 HRS 03/10/2018, OPERATOR #2 AUDREY
1ST INT. CSG & CMT @ 02:07 HRS 03/17/2018, DIANA OPERATOR #4
2ND INT CSG & CMT @ 00:53 HRS, 03/27/2018, DIANA OPERATOR #4
PROD. CSG & CMT @ 12:49 HRS, 4/12/2018, SARAH TRRC

LAST 5" DP INSP. (Red river) CAT- 4 W/ SHEAR WAVE – 03/08/2018.
421 jts kept w/Rig
33 jts sent to fishing tools
128 jts sent to NorAm yard
7 jts. down grade to Energen yd
Sent 16 jts & 1 lift sub to fishing tools

CLEAN/VISUAL INSPECT 742 JTS 4 1/2" DS-42, XX-XX-2018, XXX INSPECTION
742 JTS ACCEPTED BOTH ENDS AS PREMIUM

BHA INSPECTED 04/02/18 - HAD 3 BAD 5" HWDP, 1 BAD 6.5" DC

DAYS SINCE LAST LTA: (1,244 DAYS):
CREW SHORTAGES (LAST 24HRS / TOTAL HRS): NO/NO
CREW DOUBLES (LAST 24 HRS / TOTAL HRS): NO/NO

DOWN TIME HRS (LAST 24HRS / TOTAL HRS): 0.0/ 3.5
NON PRODUCTIVE TIME (LAST 24HRS / TOTAL HRS): 0/31.5

OBM LOST TO WELL (LAST 24 HRS / TOTAL BBLS): 00 - BBLS / 00- BBL

OBM LOST: 0- BBLS TO FORMATION
OBM LOST: 0-BBLS TO CUTTINGS

13-3/8" 61# HCK-55 BTC SURFACE SET AT 437'
10-3/4"45.5# HCN-80 BTC INTERMEDIATE SET AT 4962'
7-5/8" 29.7# HCP-110 BTC SECOND INTERMEDIATE SET @ 12,072' MD, 11,831' TVD
PROD. TAPERED STRING, 4.5" 15# CYP110 ULTRA DQXHT, 5.5" 23# CYP110 ULTRA DQXHT, SET @ 21,614' MD

LATERAL #2
BHA #7 CONSISTING OF: 6.75" ULTERRA U513 JETTED WITH 7 x 12'S = .7731 TFA // 5" PHOENIX 1.83 FBH MTR. (6/7LOBE, 6.4 STG., .80 RPG)(MOTOR BORED FOR FLOAT) // FLOAT SUB // 4.75" NMPC // 5" MWD VELOCITY // 4.5" SLICK NMDC // XO SUB // 120-JTS. OF 4.5"DP // XO SUB // SS/AGITATOR // XO SUB // TOTAL BHA = 3901.52'. DEPTH IN: 17,247' // DEPTH OUT: 21,634' // FTG DRILLED: 4387' // TOTAL DRLG HRS: 128.5 // TOTAL MTR. HRS: 137 // ROP: 34FPH // REASON PULLED: CSG POINT //BIT GRADE = 1-1-CT-1-NO-TD
MWD O/S SCRIBE: DAO:102.2DEG

LATERAL #1
BHA #6 CONSISTING OF: 6.75" ULTERRA U513 JETTED WITH 7 x 12'S = .7731 TFA // 5" PHOENIX 1.83 FBH MTR. (6/7LOBE, 6.4 STG., .80 RPG)(MOTOR BORED FOR FLOAT) // FLOAT SUB // 4.75" NMPC // 5" MWD VELOCITY // 4.5" SLICK NMDC // XO SUB // 90-JTS. OF 4.5"DP // XO SUB // SS/AGITATOR // XO SUB // TOTAL BHA = 2954.95'. DEPTH IN: 12,072' // DEPTH OUT: 17,247' // FTG DRILLED: 5165' // TOTAL DRLG HRS: 103.5 // TOTAL MTR. HRS: 103.5 // ROP: 49.7 FPH // REASON PULLED: ROP // BIT GRADE = 7-1
MWD O/S SCRIBE: DAO:7.6DEG

CURVE #1
BHA #5 CONSISTING OF: 9.875" ULTERRA CF613 JETTED WITH 3 x16'S x 3 x 18'S = 1.33 TFA // 7.75" PHOENIX MTR. 2.38° ADJ., (4/5LOBE, 5.3 STG., .253 REV/GAL) // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC // 1- XO SUB // 36-JTS. OF 5"DP // 15JTS. 5" HWDP // TOTAL BHA = 1678.92' // DEPTH IN: 11,120' // DEPTH OUT: 12082" // FTG DRILLED: 962' // TOTAL DRLG HRS: 28.5 // TOTAL MTR. HRS: 28.5 // ROP: 33.7 FPH // REASON PULLED: CSG POINT // BIT GRADE = 2-2-IG

STARTING RIG FUEL - 3200 GALLONS TRANSFERRED IN .

DIESEL USAGE:
RIG FUEL (DAILY/TOTAL): 732/54,955 GALS
MUD DIESEL (DAILY/TOTAL 1,250/ 30,538/GALS
AUXILIARY EQUIPMENT (DAILY/TOTAL): 67/ 3,375 GALS
CERTARUS GAS (DAILY/TOTAL) 193.50 / 15,000.59

NO LEAKS OR SPILLS REPORTED OR OBSERVED

Solids Removal

Shakers

Shaker #	Bottom	Middle	Top

Other Solids Removal Equipment

Item	Hrs Run	Intake Density (lbs/gal)	Overflow Density (lbs/gal)	Underflow Density (lbs/gal)

Mud Log

Formation : Wolfcamp A Shale
Background Gas :
Trip Calc :
Connection Gas :
Flare Length :

Well Incident

Report # :
Incident Date :
Report Date :
Problem Name :

Daily Drilling Report P1

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 39 Report Date : 4/15/2018

Financials

Daily Cost : $157,504 Cost to Date : $4,280,986

AFE # : PB18100003

AFE : $10,772,650 AFE Cost to Date : $4,280,986

Operations

Event Objective : Noram 27 D&C DB DEV WC A Event Sub Type : Drilling Prod

A.M. Ops : RIG RELEASED OFF THE UL 20 STRIPES 602H @ 12 NOON

Ops Forecast : MOVE RIG TO THE UL 20 STRIPES 604H

24hr. Summary : WOC, NIPPLE DOWN & SET SLIPS, CLEAN PITS, INSTALL CAP & RELEASE RIG

Planning Status :

Elevations

GL 2772.00 ft Reserve Pit Freeboard : 0.00 ft

Progress

Days from Spud : 34 Progress : 0.00 ft MD at Report Time : 21634.00 ft

Rig on Location (days) : 39 Est. TD : 21672.00 ft TVD At Report Time : 0.00 ft

Event Dates

Spud Date	Spud Time	Suspended Drilling Date	Resume Drilling Date	Total Depth Date	Total Depth Time	Finished Drilling Date	Finished Drilling Time	Rig Released Date	Rig Released Time
3/12/2018	00:00			4/11/2018	13:00				

Time Breakdown

Start Time : 00:00 Initial Depth : 0.00 ft Drilling Hours : 0.00 Total Drilling Hours : 431.50 Total Hours : 12.00 Time Code : WELLHEAI

Drilling % : 0.00 Rotating % : 0.00 Sliding % : 0.00

Start Time	End Time	Hours	Phase	Activity		NPT	Bit #	Run #	Depth (ft)	Remarks
				Time Code	Description					
00:00	02:00	2.00	CSGPRO	16C	CEMENTING - WOC (NORMAL)	No			21634.00	WELL SHUT IN, HOLD AND MONITOR PSI.
02:00	06:00	4.00	CSGPRO	21A	NU / ND BOPE - NU / ND BOPE	No			21634.00	RIG UP STACK LIFT WENCHES, NIPPLE DOWN STACK, RAISE STACK & SET SLIPS.
06:00	12:00	6.00	CSGPRO	37A	WELLHEAD - WELLHEAD INSTALL	No			21634.00	MAKE ROUGH CUT ON CSG, LAY OVER BOP' S & INSTALL CAP ON TOP OF C- SECTION. TUBING HEAD TO BE INSTALLED AFTER RIG MOVES OFF. RIG RELEASED @ 12 NOON

Personnel Hours

Vendor	Vendor Type	Number Of People	Hours On Site	Total Hours
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00
NORAM DRILLING COMPANY	TOOLPUSHER	1	24.00	24.00
NORAM DRILLING COMPANY	RIG CREWS	12	24.00	288.00
AES DRILLING FLUIDS LLC	1- MAN CREW	1	24.00	24.00
PHOENIX DIRECTIONAL DRILLERS	4- MAN CREW	4	24.00	96.00
ENERGEN RESOURCES CORP	CONSULTANT	1	24.00	24.00

Rig Information

KB Elevation: 2797.00 ft KB To GL : 25.00 ft

Rig(s) for today : Noram 27 Rig Manager : TOBY JOHNSON Rig Phone : 432-219-0731

Date and Time of Rig Release : Days From Rig Release : 0.00 Rig Fax :

Safety

Last BOP Test(F) Date	3/29/2018	Last BOP Pressure	8500.000 psi	Last Lot Fit	14.50
Last Csg Date	3/19/2018	Last Csg Pressure	1500.000 psi	Last Spills Reported	N
Last BOP Drill Date	4/9/2018	Last Test MW	12.50	Last Accidents	N
Last Fire Drill		Last Test TVD	11831.00 ft	Last Safety Meeting	4/15/2018 19:00
Last Evac Drill		Last Test Pressure	1230.000 psi	Last Safety Meeting Topic	RIGGING DOWN

Contacts

Day Sup.	WAYLON TRAMMELL	Phone		Superintendent : SANTOS MOROLES	Phone : 432-559-4901
Night Sup.	CHRIS KEIS	Phone		Geologist :	Phone :
Alt. Phone :				Drill. Eng. : RICHARD HILL	Phone : 432-818-1726

Attachments

Daily Attachment Folder(s)

Daily Drilling Report P2

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 39 Report Date : 4/15/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Mud Data

Mud Engineer : Mud Type : Polymer Type :

Chk	Time	Depth (ft)	Density (lbs/gal)	FV (s/qt)	YP (lbs/100 ft²)	PV (cP)	WL (cc/30 min)	Cl (ppm)	Electro Static Stability	Oil Ratio	H2O Ratio	HTHP Water Loss(cc/30 min)

Bit Data

Bit #	Run #	Size (in)	Mfg.	Model	IADC Code	Daily Drilled (ft)	Daily Hours	Daily ROP (ft/hr)	Cum Drilled (ft)	Cum Hrs.	Avg. ROP (ft/hr)	Depth In (ft)	Depth Out (ft)	Max WOB (M Lbs)	PSI Drop (psi)	Nozzle Velocity (ft/s)	HHP (HP)

BHA Data

For Bit # : Mud Motor : Total Made : 0 ft

Total BHA Hours : 462.0 Total Hours : 0.00

BHA # : DC OD : 0.000 in DP OD : 0.000 in BHA Length : 0.00 ft BHA Weight 0.00 M Lbs

Item	Jts	Length (ft)	OD (in)	ID (in)	Coupling OD (in)	Weight (lbs/ft)	Thread Type	Pin/Box

Drilling Parameters

Bit #	Run #	Depth (ft)	WOB (M Lbs)	RPM		GPM	Torque		String Weight			Pressure		
				Motor	Rotary		On Bom (ft lbf)	Off Bom (ft lbf)	Pick Up (lbs)	Stack Off (lbs)	Rotate (lbs)	On Bom (psi)	Off Bom (psi)	Diff Press. (psi)

Pump Data

Bit #	Pump 1					Pump 2					Pump Pressure (psi)	AV DC (ft/min)	AV DP (ft/min)
	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)	Model	Stroke (in)	Liner (in)	SPM	Pump Rate (Gals/min)			

Reduced Speed Pumps

Depth(ft)	Pump 1			Pump 2		
	Model	Pressure (psi)	SPM	Model	Pressure (psi)	SPM
0.00	CE FB1600	0.0	0	CE FB1600	1280.0	30
0.00	CE FB1600	0.0	0	CE FB1600	1540.0	40
0.00	CE FB1600	0.0	0	CE FB1600	2240.0	60

Daily Drilling Report P3

P2Wellcore

Location Information

AREA	Permian
COST POOL	DB EEX CP
BUDGET AREA	EEX-Block 20
Well Name	UL 20 STRIPES 38-47 602H
Property Number	43STRIPES602
Prospect	

Bottom Hole Targets

UWI	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Report Information

Report # : 39 Report Date : 4/15/2018

Operations

Event Objective : Noram 27 D&C DB DEV WC A

Event Sub Type : Drilling Prod

Drill Bottom Hole Targets

Bottom Hole Location	API / License #
Sec 47, Blk 20, 200' FSEL & 1254' FSWL	4249533805

Survey Data

Depth (ft)	Deviation	Azimuth	TVD (ft)	N/S	N/S (ft)	E/W	E/W (ft)	Vertical Section (ft)	Dog Leg

Hook Loads

Up :	0	
Down :	0	
Rotating :	0	
Torque :	0	Amps
Torque :	0.00	ft lbf

Comments

UL 20 STRIPES 38-47 602H

RIG MOBILIZATION BEGAN - 03/08/2018 @ 00:00 HRS.
SPUD WELL @ 00:00 HRS ON 03/12/2018
(96 HR RIG MOVE, NO DIVERTER)

TOTAL HRS FROM SPUD: 828 HRS (34.5 DAYS)

NOTIFIED TRRC AS FOLLOWS: (JOB # 124881)
SPUD @ 11:45 HRS 03/10/2018, OPERATOR #2 AUDREY
SURF CSG & CMT @ 11:45 HRS 03/10/2018, OPERATOR #2 AUDREY
1ST INT. CSG & CMT @ 02:07 HRS 03/17/2018, DIANA OPERATOR #4
2ND INT CSG & CMT @ 00:53 HRS, 03/27/2018, DIANA OPERATOR #4
PROD. CSG & CMT @ 12:49 HRS, 4/12/2018, SARAH TRRC

LAST 5" DP INSP. (Red river) CAT- 4 W/ SHEAR WAVE – 03/08/2018.
421 jts kept w/Rig
33 jts sent to fishing tools & then Noram yard 4/15/18
128 jts sent to NorAm yard
7 jts. down grade to Energen yd
Sent 16 jts & 1 lift sub to fishing tools
LAST 5" DP INSP. (Red river) Clean & visual– 04/13/2018.
14 jts 5" DP @ fishing tools for hard banding 4/14/18

CLEAN/VISUAL INSPECT 742 JTS 4 1/2" DS-42, XX-XX-2018, XXX INSPECTION
742 JTS ACCEPTED BOTH ENDS AS PREMIUM

BHA INSPECTED 04/02/18 - HAD 3 BAD 5" HWDP, 1 BAD 6.5" DC

DAYS SINCE LAST LTA: (1,244 DAYS):
CREW SHORTAGES (LAST 24HRS / TOTAL HRS): NO/NO
CREW DOUBLES (LAST 24 HRS / TOTAL HRS): NO/NO

DOWN TIME HRS (LAST 24HRS / TOTAL HRS): 0.0/ 3.5
NON PRODUCTIVE TIME (LAST 24HRS / TOTAL HRS): 0/31.5

OBM LOST TO WELL (LAST 24 HRS / TOTAL BBLS): 00 - BBLS / 00- BBL
OBM LOST: 0- BBLS TO FORMATION
OBM LOST: 0-BBLS TO CUTTINGS

13-3/8" 61# HCK-55 BTC SURFACE SET AT 437'
10-3/4"45.5# HCN-80 BTC INTERMEDIATE SET AT 4962'
7-5/8" 29.7# HCP-110 BTC SECOND INTERMEDIATE SET @ 12,072' MD, 11,831' TVD
PROD. TAPERED STRING, 4.5" 15# CYP110 ULTRA DQXHT, 5.5" 23# CYP110 ULTRA DQXHT, SET @ 21,614' MD

LATERAL #2
BHA #7 CONSISTING OF: 6.75" ULTERRA U513 JETTED WITH 7 x 12'S = .7731 TFA // 5" PHOENIX 1.83 FBH MTR. (6/7LOBE, 6.4 STG., .80 RPG)(MOTOR BORED FOR FLOAT) // FLOAT SUB // 4.75" NMPC // 5" MWD VELOCITY // 4.5" SLICK NMDC // XO SUB // 120-JTS. OF 4.5"DP // XO SUB // SS/AGITATOR // XO SUB // TOTAL BHA = 3901.52'. DEPTH IN: 17,247' // DEPTH OUT: 21,634' // FTG DRILLED: 4387' // TOTAL DRLG HRS: 128.5 // TOTAL MTR. HRS: 137 // ROP: 34FPH // REASON PULLED: CSG POINT //BIT GRADE = 1-1-CT-1-NO-TD
MWD O/S SCRIBE: DAO:102.2DEG

LATERAL #1
BHA #6 CONSISTING OF: 6.75" ULTERRA U513 JETTED WITH 7 x 12'S = .7731 TFA // 5" PHOENIX 1.83 FBH MTR. (6/7LOBE, 6.4 STG., .80 RPG)(MOTOR BORED FOR FLOAT) // FLOAT SUB // 4.75" NMPC // 5" MWD VELOCITY // 4.5" SLICK NMDC // XO SUB // 90-JTS. OF 4.5"DP // XO SUB // SS/AGITATOR // XO SUB // TOTAL BHA = 2954.95'. DEPTH IN: 12,072' // DEPTH OUT: 17,247' // FTG DRILLED: 5165' // TOTAL DRLG HRS: 103.5 // TOTAL MTR. HRS: 103.5 // ROP: 49.7 FPH // REASON PULLED: ROP // BIT GRADE = 7-1
MWD O/S SCRIBE: DAO:7.6DEG

CURVE #1
BHA #5 CONSISTING OF: 9.875" ULTERRA CF613 JETTED WITH 3 x16'S x 3 x 18'S = 1.33 TFA // 7.75" PHOENIX MTR. 2.38° ADJ., (4/5LOBE, 5.3 STG., .253 REV/GAL) // 8" SLICK NON-MAG DC // 8" MWD VELOCITY // 8" SLICK NON-MAG DC // 1- XO SUB // 36-JTS. OF 5"DP // 15JTS. 5" HWDP // TOTAL BHA = 1678.92' // DEPTH IN: 11,120' // DEPTH OUT: 12082" // FTG DRILLED: 962' // TOTAL DRLG HRS: 28.5 // TOTAL MTR. HRS: 28.5 // ROP: 33.7 FPH // REASON PULLED: CSG POINT // BIT GRADE = 2-2-IG

STARTING RIG FUEL - 3200 GALLONS TRANSFERRED IN .

DIESEL USAGE:
RIG FUEL (DAILY/TOTAL): 166/54,955 GALS
MUD DIESEL (DAILY/TOTAL 0.0/ 30,538/GALS
AUXILIARY EQUIPMENT (DAILY/TOTAL): 0.0/ 3,375 GALS
CERTARUS GAS (DAILY/TOTAL) 193.50 / 15,000.59

NO LEAKS OR SPILLS REPORTED OR OBSERVED

Solids Removal

Shakers

Shaker #	Bottom	Middle	Top

Other Solids Removal Equipment

Item	Hrs Run	Intake Density (lbs/gal)	Overflow Density (lbs/gal)	Underflow Density (lbs/gal)

Mud Log

Formation : Wolfcamp A Shale
Background Gas :
Connection Gas :
Flare Length :
Trip Calc :

Well Incident

Report # :
Incident Date :
Report Date :
Problem Name :