



Daily Drilling Report

UNIVERSITY ANDREWS 163

Report Date: 1/21/2011
Report #: 1
Actual Days: 0.17

Well Info

API / UWI 4200342376	Region/Division PERMIAN	District PERMIAN	Field Name EMBAR	Original Spud Date 1/21/2011
State/Province TEXAS	County ANDREWS	Latitude (DMS) 32° 8' 59.69" N	Longitude (DMS) 102° 43' 28.852" W	Well Type Development
Ground Elevation (ft) 3,252.00	Orig KB/RT (ft) 3,268.00	KB-Ground Distance (ft) 16.00	AFE / RFE / Maint.# WA5.CTX.0230	Network/Project ID Number 10235451
Last Casing String	AFE Duration Total (days) 8.00	Plan TMD (ftKB)	Daily Cost Total 52,478.00	Cumulative Cost 52,478.00
Rig *COPY* HELMERICH & PAYNE, H & P 306	Wellbore Original Hole	Depth End (ftKB)	Depth Progress (ft)	Depth End (TVD) (ftKB)
Days LTI (days) 930.00	Days RI (days) 889.00	Hole Condition	Drilling Hours (hrs)	Average ROP (ft/hr)
Days From Spud (days) 6.46				

Drilling Contact

Comment

Daily Ops Summary

Ops and Depth @ Morning Report
W/O DAYLIGHT FOR RIG MOVERS

Last 24hr Summary
PREP FOR RIG MOVE

24hr Forecast

RELEASE RIG UA #167 PREPARE TO MOVE TO UA # 163

General Remarks

NO HSE INCIDENTS / NO HSE ACCIDENTS

Responsible Daily Contacts

Contact Name	Title	Phone Work
BRUMLEY TERRY	ONSITE SUPERVISOR	432-425-1489
AVENDANO JAMIE	DRILLING ENGR	832-486-2413
HAIR COTTON	D&C SUPERINT	432-368-1302
DOOLEY LYNN	D&C MANAGER	
YORK GREG	D&C DIRECTOR	

Time Log

Start Time	End Time	Dur (hrs)	Phase	Op Code	Activity Code	Time P-T-X	Depth Start (ftKB)	Depth End (ftKB)	Operation
02:00	06:00	4.00	MIRU	MOVE	MOB	P	73.0	73.0	W/O DAYLIGHT FOR RIG MOVE

Head Count / Man Hours

Company	Function	Personnel Type	Count	Time (hrs)	Tot Time (hrs)
BAROID MUD CO	MUD PERSONNEL	CONTRACTOR	1	6.00	6.00
CONOCOPHILLIPS CO	ONSITE SUPERVISOR	CONTRACTOR	1	18.00	18.00
CREEK CONSTRUCTION	OTHER	CONTRACTOR	32	12.00	384.00
FAS-LINE SALES & RENTAL	ROUSTABOUT CREW	CONTRACTOR	1	3.00	3.00
FAS-LINE SALES & RENTAL	ROUSTABOUT CREW	CONTRACTOR	6	11.00	66.00
H & P DRILLING	TOOL PUSHER/RIG MGR	CONTRACTOR	1	13.00	13.00
H & P DRILLING	RIG CREW	CONTRACTOR	10	16.00	160.00
HARRIS RATHOLE SERVICE	OTHER	CONTRACTOR	5	10.00	50.00
KELLY SERVICES	OTHER	CONTRACTOR	4	3.00	12.00
KEY ENERGY SERVICES	TRUCKER	CONTRACTOR	7	12.00	84.00
KOJO ENERGY INC	ROUSTABOUT CREW	CONTRACTOR	3	4.00	12.00
RODAN TRUCKING	TRUCKER	CONTRACTOR	12	10.00	120.00
SIERRA ENGINEERING	SAFETY PERSONNEL	CONTRACTOR	10	12.50	125.00
WEST CO	OTHER	CONTRACTOR	4	8.00	32.00

Mud Data

Type	Solids, Corr. (%)	LGS (%)	Sand (%)	MBT (lb/bbl)	Chlorides (mg/L)	Calcium (mg/L)	ECD - Manual Entr...
Density (lb/gal)	Vis (s/qt)	T (visc) (°F)	PV Calc (cp)	YP Calc (lb/100...)	Vis 600rpm (rpm)	Vis 300rpm (rpm)	Vis 200rpm
Vis 6rpm	Vis 3rpm	Gel (10s) (lb/10...	Gel (10m) (lb/1...	Gel (30m) (lb/1...	API Filtrate (mL/...	HTHP Filt (mL/3...	API Cake (/32")
Electric Stab (V)	Mud Lost (Hole)...	Mud Vol (Act) (b...	Active Mud Vol...	T (fl) (°F)	pH	Pm (mL/mL)	Mf (mL/mL)
Pf (mL/mL)							

Observation Cards (BST, STOP, etc)

Observ Type	No. Rpts	Comment
JSA / GO CARD DISCUSSION NEAR MISS REPORTS STOP INTERVENTIONS		UNSAFE



Daily Drilling Report

UNIVERSITY ANDREWS 163

Report Date: 1/21/2011
Report #: 1
Actual Days: 0.17

Observation Cards (BST, STOP, etc)

Observ Type	No. Rpts	Comment
STOP INTERVENTIONS STOP INTERVENTIONS		STOP THE JOB/ SAFE

Safety Meetings / Operational Checks

Date	Type	Description

BOP INFO

Date of Last Test	Description	ID (in)	Start Date	End Date	Class	Height (ft)	Pres (psi)	Service	Clear (ft)
1/14/2011	SHAHER	11	1/14/2011				3,000.0		

Shaker Screens

Description	Make	Model	Deck No.	Screen No.	Scr Sz X	Scr Sz Y

Pump Operations

Pump Number	Liner Size (in)	Volume Per Stroke Override (bbl/stk)
2	5 1/2	
Pump Number	Liner Size (in)	Volume Per Stroke Override (bbl/stk)
1	5 1/2	

Pump Checks

Make	Model	No.	Depth (ftKB)	Pres (psi)	Slow Spd	Strokes (spm)	Stroke (in)	Eff (%)
					No			

Drill Bit - <Drill Bit?>

Bit Run	Bit Type	Size (in)	Make	Model	Serial Number
Depth In (ftKB)	Depth Out (ftKB)	Depth Drilled (ft)	Drilling Time (hrs)	BHA ROP (ft/hr)	TFA (incl Noz) (in²)
IADC Bit Dull	Nozzles (/32")	RPM (min) (rpm)	RPM (max) (rpm)	WOB (min) (1000lbf)	WOB (max) (1000lbf)

Drill String Components

Item Description	Tally Jts	OD (in)	ID (in)	Len (ft)	Tally Len (ft)	Wt (lbf)	Btm Conn Sz (in)	Top Conn Sz (in)	Btm Thread	Top Thread	Cum Wt (1000lbf)	Cum Len (ft)

Drilling Parameters

Start (ftKB)	End (ftKB)	Cum Depth (ft)	Drilling Time (hrs)	Int ROP (ft/hr)	Flow Rate (gpm) (gpm)	WOB (lbf)	RPM (rpm)	SPP (psi)	Drill Tq	TFO (°)	dP (SPP) (psi)

Bulk Fluids Amounts

Date	Supply Item Description	Type	Unit Label	Unit Size	Received	Consumed	Returned	Note	Cum Received	Cum Consumed	Cum Returned

Survey Data

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Depart (ft)	Build (°/100ft)	NS (ft)	EW (ft)	Method

Casing Strings

Casing Description	OD (in)	Set Depth (ftKB)	Top (ftKB)	Run Date	Drift Min (in)	Wt (lbs/ft)	Dens Fluid (lb/gal)	P (LO) (psi)

General Notes

Comment

Well Info

API / UWI 4200342376	Region/Division PERMIAN	District PERMIAN	Field Name EMBAR	Original Spud Date 1/21/2011
State/Province TEXAS	County ANDREWS	Latitude (DMS) 32° 8' 59.69" N	Longitude (DMS) 102° 43' 28.852" W	Well Type Development
Ground Elevation (ft) 3,252.00	Orig KB/RT (ft) 3,268.00	KB-Ground Distance (ft) 16.00	AFE / RFE / Maint.# WA5.CTX.0230	Network/Project ID Number 10235451
Last Casing String Surface, 1,503.2ftKB	AFE Duration Total (days) 8.00	Plan TMD (ftKB)	Daily Cost Total 103,285.00	Cumulative Cost 223,969.00
Rig HELMERICH & PAYNE, H & P 306	Wellbore Original Hole	Depth End (ftKB) 1,512.0	Depth Progress (ft) 32.00	Depth End (TVD) (ftKB)
Days LTI (days) 932.00	Days RI (days) 891.00	Hole Condition GOOD	Drilling Hours (hrs) 0.75	Average ROP (ft/hr) 42.7
Days From Spud (days) 1.46				

Drilling Contact

Comment

Daily Ops Summary

Ops and Depth @ Morning Report

DRLG FLOAT COLLAR & CEMENT.

Last 24hr Summary

DRLG TO TD. CIRC. POOH. RUN & CEMENT SURFACE CASING, BACK OUT LANDING JT., LD CONDUCTOR. NU S95 WELL HEAD, NU BOP, RIG UP BOPE TESTER, PRESSURE TEST BOPE. GIH WITH BHA #2. TEST CASING. DRLG SHOE TRACK.

24hr Forecast

DRLG PRODUCTION INTERVAL

General Remarks

NO HSE INCIDENTS / NO HSE ACCIDENTS

Responsible Daily Contacts

Contact Name	Title	Phone Work
BRUMLEY TERRY	ONSITE SUPERVISOR	432-425-1489
AVENDANO JAMIE	DRILLING ENGR	832-486-2413
HAIR COTTON	D&C SUPERINT	432-368-1302
DOOLEY LYNN	D&C MANAGER	
YORK GREG	D&C DIRECTOR	

Time Log

Start Time	End Time	Dur (hrs)	Phase	Op Code	Activity Code	Time P-T-X	Depth Start (ftKB)	Depth End (ftKB)	Operation
06:00	06:45	0.75	SURFAC	DRILL	DRLG	P	1,480.0	1,512.0	DRILL 1480' - 15121' TD SURFACE SECTION
06:45	07:45	1.00	SURFAC	DRILL	CIRC	P	1,512.0	1,512.0	PUMP SWEEP CIRC BOTTOMS UP. DROP TOTCO. **NOTIFIED TRRC OF INTENT TO RUN & CEMENT SURFACE CASING**
07:45	11:00	3.25	SURFAC	CASING	TRIP	P	1,512.0	1,512.0	POOH WITH BHA #1. TOTCO SURVEY @ 1465' / 1.34 DEG
11:00	12:00	1.00	SURFAC	CASING	RURD	P	1,512.0	1,512.0	RU CASING RUNNING TOOL & EQUIPMENT.
12:00	14:00	2.00	SURFAC	CASING	RNCS	P	1,512.0	1,512.0	RAN JTS 33 RUN 8.625" 24# J-55 ST&C CASING. TOP TO BOTTOM SUMMARY LANDING JT. AND HANGER ASSEMBLY 34 - JTS 8.625" CASING 1- FLOAT COLLAR SET @ 1,458' 1-GUIDE SHOE. CSG SET @ 1,503.2'. 12 CENTRALIZERS & 1- CEMENT BASKET. LAND MANDREL & VERIFY PROPER SPACE OUT.
14:00	15:00	1.00	SURFAC	CEMENT	CIRC	P	1,512.0	1,512.0	CIRCULATE CASING @ SURFACE TD. HELD SAFETY MEETING. RU SCHLUMBERGER & TEST LINES.

Time Log

Start Time	End Time	Dur (hrs)	Phase	Op Code	Activity Code	Time P-T-X	Depth Start (ftKB)	Depth End (ftKB)	Operation
15:00	18:00	3.00	SURFAC	CEMENT	CMNT	P	1,512.0	1,512.0	***PUMP CEMENT AS FOLLOWS*** PUMP 20 BBL SPACER LEAD CMT 500 SKS (151 BBLS) 13.6 PPG, 1.71 YEILD, 8.89GAL/SK TAIL CMT - 250 SKS (60 BBLS) 14.8 PPG, 1.34 YEILD, 6.36 GAL/SK DROP PLUG & DISP W/87 BBLS FRESH WTR. BUMPED PLUG @ 1000 PSI, HELD 500 PSI OVER HELD FOR 5 MINS. CIRC 80 BBLS/ 262 SKS CEMENT TO SURFACE PLUG DOWN @ 17:30. RD SCHLUMBERGER
18:00	18:30	0.50	SURFAC	CEMENT	NUND	P	1,512.0	1,512.0	ND CONDUCTOR. LD LANDING JT.
18:30	19:00	0.50	SURFAC	CEMENT	CPBO	P	1,512.0	1,512.0	N/U BOP TO S-95 WELL HEAD. TEST TO 5000#. OK
19:00	21:00	2.00	SURFAC	CEMENT	NUND	P	1,512.0	1,512.0	NIPPLE UP ANNULAR BOP, CHOKE LINES, KILL & FLOWLINES.
21:00	23:00	2.00	SURFAC	CEMENT	RURD	P	1,512.0	1,512.0	RIG DOWN CRT. FILL PITS WITH BRINE. PICK UP TEST JOINT & INSTALL TEST PLUG
23:00	02:00	3.00	SURFAC	CEMENT	BOPE	P	1,512.0	1,512.0	SAFETY MEETING W/ PRESSURE TESTER. RU TEST EQUIPMENT. TEST CLASS II BOPE. TEST PIPE RAMS / BLIND RAMS, CHOKE MANIFOLD & FLOOR VALVES 5 MINUTES @ 250# & 5MINUTES @ 3,000#. TEST ANNULAR BOPE 5 MINUTES @ 250# & 5MINUTES @ 2,100#. GOOD TEST. KELLY HOSE, STANDPIPE, VIBRATING HOSE & 4" VALVES TO 4100. PSI FOR 10 MIN. GOOD TEST.
02:00	02:30	0.50	SURFAC	CEMENT	RURD	P	1,512.0	1,512.0	SAFETY MEETING, INSTALL WEARBUSHING.
02:30	03:30	1.00	SURFAC	CEMENT	TRIP	P	1,512.0	1,512.0	M/U BIT, BIT SUB, MTR, TEST TELEDRIFT.
03:30	05:00	1.50	SURFAC	CEMENT	TRIP	P	1,512.0	1,512.0	GIH WITH BHA #2. TAG @ 1426'.
05:00	05:30	0.50	SURFAC	CEMENT	PRTS	P	1,512.0	1,512.0	REVIEW JSA & TEST SURFACE CASING TO 1,000# FOR 30 MINUTES. TEST GOOD.
05:30	06:00	0.50	SURFAC	CEMENT	COCF	P	1,512.0	1,512.0	DRLG FLOAT COLLAR & CEMENT.

Head Count / Man Hours

Company	Function	Personnel Type	Count	Time (hrs)	Tot Time (hrs)
CONOCOPHILLIPS CO	ONSITE SUPERVISOR	EMPLOYEE	1	18.00	18.00
EL FARMER	TRUCKER	CONTRACTOR	1	2.00	2.00
H & P DRILLING	RIG CREW	CONTRACTOR	10	12.50	125.00
H & P DRILLING	TOOL PUSHER/RIG MGR	CONTRACTOR	1	18.00	18.00
JZ BITS	OTHER	CONTRACTOR	1	2.00	2.00
KEY ENERGY SERVICES	TRUCKER	CONTRACTOR	2	8.00	16.00
MAN WELDING	OTHER	CONTRACTOR	1	6.00	6.00
MD TOTCO	OTHER	CONTRACTOR	1	2.00	2.00
NOV	VENDOR	CONTRACTOR	1	2.00	2.00
SCHLUMBERGER	CMT CREW	CONTRACTOR	4	7.00	28.00
TELEDRIFT	VENDOR	CONTRACTOR	1	2.00	2.00
TOTAL SERVICE	VENDOR	CONTRACTOR	1	2.00	2.00
WEATHERFORD	OTHER	CONTRACTOR	1	2.00	2.00
WOODGROUP	WELLHEAD HAND	CONTRACTOR	1	11.00	11.00

Mud Data

Type	Solids, Corr. (%)	LGS (%)	Sand (%)	MBT (lb/bbl)	Chlorides (mg/L)	Calcium (mg/L)	ECD - Manual Entr...	
Brine Water					186,000			
Density (lb/gal)	Vis (s/qt)	T (visc) (°F)	PV Calc (cp)	YP Calc (lb/100...	Vis 600rpm (rpm)	Vis 300rpm (rpm)	Vis 200rpm	Vis 100rpm
10.00	29							
Vis 6rpm	Vis 3rpm	Gel (10s) (lb/10...	Gel (10m) (lb/1...	Gel (30m) (lb/1...	API Filtrate (mL/...	HTHP Filt (mL/3...	API Cake (/32")	Oil Water Ratio
Electric Stab (V)	Mud Lost (Hole)...	Mud Vol (Act) (b...	Active Mud Vol...	T (fl) (°F)	pH	Pm (mL/mL)	Mf (mL/mL)	Pf (mL/mL)
					9.0			

Observation Cards (BST, STOP, etc)

Observ Type	No. Rpts	Comment
JSA / GO CARD DISCUSSION	32	
STOP INTERVENTIONS	14	UNSAFE
STOP INTERVENTIONS	2	STOP THE JOB DRILL. 3RD PARTY PERSONNEL NOT WEARING FRC/PERSONNEL STANDING UNDER SUSPENDED LOAD.
STOP INTERVENTIONS	5	SAFE



Daily Drilling Report

UNIVERSITY ANDREWS 163

Report Date: 1/23/2011
Report #: 4
Actual Days: 3.23

Well Info

API / UWI 4200342376	Region/Division PERMIAN	District PERMIAN	Field Name EMBAR	Original Spud Date 1/21/2011
State/Province TEXAS	County ANDREWS	Latitude (DMS) 32° 8' 59.69" N	Longitude (DMS) 102° 43' 28.852" W	Well Type Development
Ground Elevation (ft) 3,252.00	Orig KB/RT (ft) 3,268.00	KB-Ground Distance (ft) 16.00	AFE / RFE / Maint.# WA5.CTX.0230	Network/Project ID Number 10235451
Last Casing String Surface, 1,503.2ftKB	AFE Duration Total (days) 8.00	Plan TMD (ftKB)	Daily Cost Total 28,550.00	Cumulative Cost 252,519.00
Rig HELMERICH & PAYNE, H & P 306	Wellbore Original Hole	Depth End (ftKB) 2,990.0	Depth Progress (ft) 1,478.00	Depth End (TVD) (ftKB)
Days LTI (days) 933.00	Days RI (days) 892.00	Hole Condition GOOD	Drilling Hours (hrs) 14.50	Average ROP (ft/hr) 101.9
Days From Spud (days) 2.46				

Drilling Contact

Comment

Daily Ops Summary

Ops and Depth @ Morning Report

DRLG 7 7/8" PROD INTERVAL @ 3,525'

Last 24hr Summary

TRIP IN HOLE, DRILL OUT FLOAT COLLAR AND CEMENT.

CASING TEST, FIT, DRILL 7-7/8" PROD HOLE 1,512' - 2,665'. TRIP FOR TELEDRIFT. SLIP & CUT DRLG LINE. DRLG 2,665' - 2,990'

24hr Forecast

DRLG PRODUCTION INTERVAL

General Remarks

NO HSE INCIDENTS / NO HSE ACCIDENTS

Responsible Daily Contacts

Contact Name	Title	Phone Work
BRUMLEY TERRY	ONSITE SUPERVISOR	432-425-1489
AVENDANO JAMIE	DRILLING ENGR	832-486-2413
HAIR COTTON	D&C SUPERINT	432-368-1302
DOOLEY LYNN	D&C MANAGER	
YORK GREG	D&C DIRECTOR	

Time Log

Start Time	End Time	Dur (hrs)	Phase	Op Code	Activity Code	Time P-T-X	Depth Start (ftKB)	Depth End (ftKB)	Operation
06:00	06:30	0.50	SURFAC	CEMENT	COCF	P	1,512.0	1,512.0	DRLG FLOAT COLLAR & CEMENT.
06:30	07:00	0.50	SURFAC	CEMENT	FIT	P	1,512.0	1,512.0	CIRC CLEAN & FIT @ 1515'. 150# PSI FOR 10 MINUTES GOOD TEST.
07:00	17:00	10.00	PROD1	DRILL	DRLG	P	1,512.0	2,665.0	DRLG 1,512' - 2,665'
17:00	17:30	0.50	PROD1	DRILL	SVRG	P	2,665.0	2,665.0	SERVICE RIG
17:30	18:00	0.50	PROD1	DRILL	CIRC	P	2,665.0	2,665.0	CIRCULATE PRIOR TO POOH FOR TELEDRIFT TOOL
18:00	21:00	3.00	PROD1	DRILL	TRIP	T	2,665.0	2,665.0	POOH TO CHANGE OUT TELEDRIFT TOOL.
21:00	23:00	2.00	PROD1	DRILL	SLPC	P	2,665.0	2,665.0	SLIP & CUT DRLG LINE
23:00	01:30	2.50	PROD1	DRILL	TRIP	T	2,665.0	2,665.0	TIH WITH NEW TELEDRIFT TOOL.
01:30	06:00	4.50	PROD1	DRILL	DRLG	P	2,665.0	2,990.0	DRLG 2,665' - 2,990'. LAST SURVEY @ 2,805' 1.4 DEG

Head Count / Man Hours

Company	Function	Personnel Type	Count	Time (hrs)	Tot Time (hrs)
BAROID MUD CO	MUD PERSONNEL	CONTRACTOR	1	4.00	4.00
CONOCOPHILLIPS CO	ONSITE SUPERVISOR	EMPLOYEE	1	18.00	18.00
COUGAR	VENDOR	CONTRACTOR	1	2.00	2.00
E L FARMER TRUCKING	TRUCKER	CONTRACTOR	4	4.00	16.00
H & P DRILLING	RIG CREW	CONTRACTOR	10	12.50	125.00
H & P DRILLING	TOOL PUSHER/RIG MGR	CONTRACTOR	1	18.00	18.00
HB RENTALS	VENDOR	CONTRACTOR	1	4.00	4.00
STABIL DRILL	VENDOR	CONTRACTOR	1	2.00	2.00

Mud Data

Type Salt Base	Solids, Corr. (%)	LGS (%)	Sand (%)	MBT (lb/bbl)	Chlorides (mg/L)	Calcium (mg/L)	ECD - Manual Entr...
Density (lb/gal) 10.00	Vis (s/qt)	T (visc) (°F)	PV Calc (cp)	YP Calc (lb/100...)	Vis 600rpm (rpm)	Vis 300rpm (rpm)	Vis 200rpm
Vis 6rpm	Vis 3rpm	Gel (10s) (lb/10...)	Gel (10m) (lb/1...)	Gel (30m) (lb/1...)	API Filtrate (mL/...)	HTHP Filt (mL/3...)	API Cake (/32")
Electric Stab (V)	Mud Lost (Hole)...	Mud Vol (Act) (b...)	Active Mud Vol...	T (fl) (°F)	pH 10.0	Pm (mL/mL)	Mf (mL/mL)
Pf (mL/mL)							



Daily Drilling Report

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Report Date: 1/23/2011
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Observation Cards (BST, STOP, etc)

Observ Type	No. Rpts	Comment
JSA / GO CARD DISCUSSION	26	
STOP INTERVENTIONS	2	SAFE
STOP INTERVENTIONS	2	STOP THE JOB DRILL/ RIG FLOOR HAZARDS LAYING AROUND
STOP INTERVENTIONS	17	UNSAFE

Safety Meetings / Operational Checks

Date	Type	Description
1/23/2011 06:00	Pre-Job Safety Meeting	FIT / DRLG AHEAD
1/23/2011 18:00	Pre-Job Safety Meeting	POOH
1/23/2011 22:00	Safety Meeting	RU MUD LOGGERS

BOP INFO

Date of Last Test	Description	ID (in)	Start Date	End Date	Class	Height (ft)	Pres (psi)	Service	Clear (ft)
1/23/2011	SHAHER	11	1/22/2011				3,000.0		

Shaker Screens

Description	Make	Model	Deck No.	Screen No.	Scr Sz X	Scr Sz Y

Pump Operations

Pump Number	Liner Size (in)	Volume Per Stroke Override (bbl/stk)
1	5 1/2	0.059
Pump Number	Liner Size (in)	Volume Per Stroke Override (bbl/stk)
2	5 1/2	0.059

Pump Checks

Make	Model	No.	Depth (ftKB)	Pres (psi)	Slow Spd	Strokes (spm)	Stroke (in)	Eff (%)
Gardner-Denver	2210	1	1,537.0	130.0	Yes	25	7.99	95
Gardner-Denver	2210	1	1,537.0	460.0	Yes	50	7.99	95
Gardner-Denver	2210	1	2,980.0	2,150.0	No	100	7.99	95
Gardner-Denver	2210	2	1,537.0	130.0	Yes	25	7.99	95
Gardner-Denver	2210	2	1,537.0	460.0	Yes	50	7.99	95
Gardner-Denver	2210	2	2,980.0	2,150.0	No	100	7.99	95

Drill Bit - 7 7/8in, JZ, PL616S6V184, SO7429

Bit Run	Bit Type	Size (in)	Make	Model	Serial Number
1	JZ	7 7/8	JZ	PL616S6V184	SO7429
Depth In (ftKB)	Depth Out (ftKB)	Depth Drilled (ft)	Drilling Time (hrs)	BHA ROP (ft/hr)	TFA (incl Noz) (in²)
1,512.0	2,990.0	1,478.00	14.50	101.9	0.45
IADC Bit Dull	Nozzles (3/2")	RPM (min) (rpm)	RPM (max) (rpm)	WOB (min) (1000lbf)	WOB (max) (1000lbf)
-----	14/14/14	145	145	16,000	16,000

Drill String Components

Item Description	Tally Jts	OD (in)	ID (in)	Len (ft)	Tally Len (ft)	Wt (lbf)	Btm Conn Sz (in)	Top Conn Sz (in)	Btm Thread	Top Thread	Cum Wt (1000lbf)	Cum Len (ft)
Drill Pipe		4 1/2	3.826	2,399.00		39,823.4	4 1/2	4 1/2	XH	XH	98	2,990.25
Drill Collar		6 1/2	2.250	542.61		53,962.6	4 1/2	4 1/2	XH	XH	58	591.25
Stabilizer		6 1/4	2.750	6.37		633.2	4 1/2	4 1/2	XH	XH	4	48.64
Inclination Sub		6 3/4	2.250	10.08		872.1	4 1/2	4 1/2	XH	XH	3	42.27
Mud Motor (NOV)		6 1/4	2.750	29.53		2,480.5	4 1/2	4 1/2	XH	XH	2	32.19
Bit Sub		6 1/4		1.66			4 1/2	4 1/2	XH	XH	0	2.66

Drilling Parameters

Start (ftKB)	End (ftKB)	Cum Depth (ft)	Drilling Time (hrs)	Int ROP (ft/hr)	Flow Rate (gpm) (gpm)	WOB (lbf)	RPM (rpm)	SPP (psi)	Drill Tq	TFO (°)	dP (SPP) (psi)
1,512.0	2,990.0	1,478.00	14.50	101.9	468	15,999.9...	65	2,500.0			

Bulk Fluids Amounts

Date	Supply Item Description	Type	Unit Label	Unit Size	Received	Consumed	Returned	Note	Cum Received	Cum Consumed	Cum Returned
1/24/2011	Diesel Fuel - Rig	Fuel	gal us			1,104.0			5,740.0	2,267.0	0.0
1/24/2011	Drilling Water	Water	bbl			0.0			4,500.0	500.0	0.0
1/24/2011	Potable Water	Water	gal us			500.0			3,000.0	1,500.0	0.0
1/24/2011	Rig Water	Water	bbl			240.0			570.0	640.0	0.0

Survey Data

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Depart (ft)	Build (°/100ft)	NS (ft)	EW (ft)	Method
1,496.00	0.60		1,495.62		-4.63			Inc-MWD
2,218.00	1.20		2,217.53		0.08			Inc-MWD
2,489.00	2.10		2,488.42		0.33			Inc-MWD
2,625.00	1.30		2,624.35		-0.59			Inc-MWD
2,804.00	1.40		2,803.30		0.06			Inc-MWD

Casing Strings

Casing Description	OD (in)	Set Depth (ftKB)	Top (ftKB)	Run Date	Drift Min (in)	Wt (lbs/ft)	Dens Fluid (lb/gal)	P (LO) (psi)
Conductor	16	80.0	16.0	1/20/2011		65.00		
Surface	8 5/8	1,503.2	16.0	1/22/2011		24.00	11.89	942.0



Daily Drilling Report

UNIVERSITY ANDREWS 163

Report Date: 1/24/2011
Report #: 5
Actual Days: 4.23

Well Info

API / UWI 4200342376	Region/Division PERMIAN	District PERMIAN	Field Name EMBAR	Original Spud Date 1/21/2011
State/Province TEXAS	County ANDREWS	Latitude (DMS) 32° 8' 59.69" N	Longitude (DMS) 102° 43' 28.852" W	Well Type Development
Ground Elevation (ft) 3,252.00	Orig KB/RT (ft) 3,268.00	KB-Ground Distance (ft) 16.00	AFE / RFE / Maint.# WA5.CTX.0230	Network/Project ID Number 10235451
Last Casing String Surface, 1,503.2ftKB	AFE Duration Total (days) 8.00	Plan TMD (ftKB)	Daily Cost Total 35,800.00	Cumulative Cost 288,319.00
Rig HELMERICH & PAYNE, H & P 306	Wellbore Original Hole	Depth End (ftKB) 4,900.0	Depth Progress (ft) 1,910.00	Depth End (TVD) (ftKB) 4,898.9
Days LTI (days) 934.00	Days RI (days) 893.00	Hole Condition GOOD	Drilling Hours (hrs) 23.00	Average ROP (ft/hr) 83.0
Days From Spud (days) 3.46				

Drilling Contact

Comment

Daily Ops Summary

Ops and Depth @ Morning Report

DRLG 7 7/8" PROD INTERVAL @ 4900

Last 24hr Summary

DRLG 2,990' - 3,934'. SERVICE RIG.

DRLG 3,934' - 4,900'.

LAST SURVEY @ 4,473' 1.3 DEG

24hr Forecast

DRLG PRODUCTION INTERVAL

General Remarks

NO HSE INCIDENTS / NO HSE ACCIDENTS

Responsible Daily Contacts

Contact Name	Title	Phone Work
BRUMLEY TERRY	ONSITE SUPERVISOR	432-425-1489
AVENDANO JAMIE	DRILLING ENGR	832-486-2413
HAIR COTTON	D&C SUPERINT	432-368-1302
DOOLEY LYNN	D&C MANAGER	
YORK GREG	D&C DIRECTOR	

Time Log

Start Time	End Time	Dur (hrs)	Phase	Op Code	Activity Code	Time P-T-X	Depth Start (ftKB)	Depth End (ftKB)	Operation
06:00	17:00	11.00	PROD1	DRILL	DRLG	P	2,990.0	3,934.0	DRLG 2,990' - 3,934'
17:00	17:30	0.50	PROD1	DRILL	SVRG	P	3,934.0	3,934.0	SERVICE RIG
17:30	06:00	12.50	PROD1	DRILL	DRLG	P	3,934.0	4,900.0	DRLG 3,934' - 4,900'. LAST SURVEY @ 4,473' 1.3 DEG ** NO REPORT FROM MUD LOGGERS BY REPORT TIME**

Head Count / Man Hours

Company	Function	Personnel Type	Count	Time (hrs)	Tot Time (hrs)
ARGUINDEGUI OIL CO	FUEL HAULER	CONTRACTOR	1	4.00	4.00
BAROID MUD CO	MUD PERSONNEL	CONTRACTOR	1	4.00	4.00
CONOCOPHILLIPS CO	ONSITE SUPERVISOR	EMPLOYEE	1	18.00	18.00
E L FARMER TRUCKING	TRUCKER	CONTRACTOR	1	3.00	3.00
H & P DRILLING	RIG CREW	CONTRACTOR	10	12.50	125.00
H & P DRILLING	TOOL PUSHER/RIG MGR	CONTRACTOR	1	18.00	18.00
HB RENTALS	VENDOR	CONTRACTOR	1	4.00	4.00
SELMAN & ASSOCIATES	OTHER	CONTRACTOR	2	12.00	24.00

Mud Data

Type	Solids, Corr. (%)	LGS (%)	Sand (%)	MBT (lb/bbl)	Chlorides (mg/L)	Calcium (mg/L)	ECD - Manual Entr...
Salt Base							
Density (lb/gal) 10.00	Vis (s/qt)	T (visc) (°F)	PV Calc (cp)	YP Calc (lb/100...)	Vis 600rpm (rpm)	Vis 300rpm (rpm)	Vis 200rpm
Vis 6rpm	Vis 3rpm	Gel (10s) (lb/10...)	Gel (10m) (lb/1...)	Gel (30m) (lb/1...)	API Filtrate (mL/...)	HTHP Filt (mL/3...)	API Cake (/32")
Electric Stab (V)	Mud Lost (Hole)...	Mud Vol (Act) (b...)	Active Mud Vol...	T (fl) (°F)	pH 10.0	Pm (mL/mL)	Mf (mL/mL)
							Pf (mL/mL)

Observation Cards (BST, STOP, etc)

Observ Type	No. Rpts	Comment
JSA / GO CARD DISCUSSION	21	
NEAR MISS REPORTS	1	ELECTRIC AGITATOR FOR MUD LOGGERS
STOP INTERVENTIONS	4	SAFE



Daily Drilling Report

UNIVERSITY ANDREWS 163

Report Date: 1/24/2011
Report #: 5
Actual Days: 4.23

Observation Cards (BST, STOP, etc)

Observ Type	No. Rpts	Comment
STOP INTERVENTIONS	17	UNSAFE
STOP INTERVENTIONS	2	STOP THE JOB DRILL/ EMPLOYEE NOT WEARING FALL PROTECTION

Safety Meetings / Operational Checks

Date	Type	Description
1/24/2011 06:00	Pre-Job Safety Meeting	HOUSEKEEPING
1/24/2011 08:45	BOP Drill	45 SECONDS RESONSE
1/24/2011 15:00	JSA Audit	PAINTING
1/24/2011 18:00	Pre-Job Safety Meeting	MIXING CHEMICALS
1/25/2011 01:00	H2S Drill	60 SECONDS RESONSE

BOP INFO

Date of Last Test	Description	ID (in)	Start Date	End Date	Class	Height (ft)	Pres (psi)	Service	Clear (ft)
1/23/2011	SHAHER	11	1/22/2011				3,000.0		

Shaker Screens

Description	Make	Model	Deck No.	Screen No.	Scr Sz X	Scr Sz Y

Pump Operations

Pump Number	Liner Size (in)	Volume Per Stroke Override (bbl/stk)
1	5 1/2	0.059
Pump Number	Liner Size (in)	Volume Per Stroke Override (bbl/stk)
2	5 1/2	0.059

Pump Checks

Make	Model	No.	Depth (ftKB)	Pres (psi)	Slow Spd	Strokes (spm)	Stroke (in)	Eff (%)
Gardner-Denver	2210	1	3,931.0	140.0	Yes	25	7.99	95
Gardner-Denver	2210	1	3,931.0	540.0	Yes	50	7.99	95
Gardner-Denver	2210	1	4,850.0	2,350.0	No	100	7.99	95
Gardner-Denver	2210	2	3,931.0	140.0	Yes	25	7.99	95
Gardner-Denver	2210	2	3,931.0	540.0	Yes	50	7.99	95
Gardner-Denver	2210	2	4,850.0	2,350.0	No	100	7.99	95

Drill Bit - 7 7/8in, JZ, PL616S6V184, SO7429

Bit Run	Bit Type	Size (in)	Make	Model	Serial Number
1	JZ	7 7/8	JZ	PL616S6V184	SO7429
Depth In (ftKB)	Depth Out (ftKB)	Depth Drilled (ft)	Drilling Time (hrs)	BHA ROP (ft/hr)	TFA (incl Noz) (in²)
1,512.0	6,475.0	4,963.00	60.50	82.0	0.45
IADC Bit Dull	Nozzles (/32")	RPM (min) (rpm)	RPM (max) (rpm)	WOB (min) (1000lbf)	WOB (max) (1000lbf)
-----	14/14/14	145	145	16,000	21,000

Drill String Components

Item Description	Tally Jts	OD (in)	ID (in)	Len (ft)	Tally Len (ft)	Wt (lbf)	Btm Conn Sz (in)	Top Conn Sz (in)	Btm Thread	Top Thread	Cum Wt (1000lbf)	Cum Len (ft)
Drill Pipe		4 1/2	3.826	6,058.00		100,562.8	4 1/2	4 1/2	XH	XH	159	6,649.25
Drill Collar		6 1/2	2.250	542.61		53,962.6	4 1/2	4 1/2	XH	XH	58	591.25
Stabilizer		6 1/4	2.750	6.37		633.2	4 1/2	4 1/2	XH	XH	4	48.64
Inclination Sub		6 3/4	2.250	10.08		872.1	4 1/2	4 1/2	XH	XH	3	42.27
Mud Motor (NOV)		6 1/4	2.750	29.53		2,480.5	4 1/2	4 1/2	XH	XH	2	32.19
Bit Sub		6 1/4	1.66				4 1/2	4 1/2	XH	XH	0	2.66

Drilling Parameters

Start (ftKB)	End (ftKB)	Cum Depth (ft)	Drilling Time (hrs)	Int ROP (ft/hr)	Flow Rate (gpm) (gpm)	WOB (lbf)	RPM (rpm)	SPP (psi)	Drill Tq	TFO (°)	dP (SPP) (psi)
2,990.0	4,900.0	3,388.00	23.00	83.0	468	19,999,9...	65	2,350.0			

Bulk Fluids Amounts

Date	Supply Item Description	Type	Unit Label	Unit Size	Received	Consumed	Returned	Note	Cum Received	Cum Consumed	Cum Returned
1/25/2011	Diesel Fuel - Rig	Fuel	gal us		2,800.0	1,456.0			8,540.0	3,723.0	0.0
1/25/2011	Drilling Water	Water	bbl		600.0	250.0			5,100.0	750.0	0.0
1/25/2011	Potable Water	Water	gal us		2,000.0	500.0			5,000.0	2,000.0	0.0
1/25/2011	Rig Water	Water	bbl		240.0	50.0			1,050.0	690.0	0.0

Survey Data

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Depart (ft)	Build (°/100ft)	NS (ft)	EW (ft)	Method
2,987.00	0.70		2,986.27		-0.38			Inc-MWD
3,484.00	1.10		3,483.21		0.08			Inc-MWD
3,978.00	1.20		3,977.11		0.02			Inc-MWD
4,473.00	1.30		4,471.99		0.02			Inc-MWD

Casing Strings

Casing Description	OD (in)	Set Depth (ftKB)	Top (ftKB)	Run Date	Drift Min (in)	Wt (lbs/ft)	Dens Fluid (lb/gal)	P (LO) (psi)
Conductor	16	80.0	16.0	1/20/2011		65.00		
Surface	8 5/8	1,503.2	16.0	1/22/2011		24.00	11.89	942.0

Well Info

API / UWI 4200342376	Region/Division PERMIAN	District PERMIAN	Field Name EMBAR	Original Spud Date 1/21/2011
State/Province TEXAS	County ANDREWS	Latitude (DMS) 32° 8' 59.69" N	Longitude (DMS) 102° 43' 28.852" W	Well Type Development
Ground Elevation (ft) 3,252.00	Orig KB/RT (ft) 3,268.00	KB-Ground Distance (ft) 16.00	AFE / RFE / Maint.# WA5.CTX.0230	Network/Project ID Number 10235451
Last Casing String Surface, 1,503.2ftKB	AFE Duration Total (days) 8.00	Plan TMD (ftKB)	Daily Cost Total 27,400.00	Cumulative Cost 315,719.00
Rig HELMERICH & PAYNE, H & P 306	Wellbore Original Hole	Depth End (ftKB) 6,475.0	Depth Progress (ft) 1,575.00	Depth End (TVD) (ftKB)
Days LTI (days) 935.00	Days RI (days) 894.00	Hole Condition GOOD	Drilling Hours (hrs) 23.00	Average ROP (ft/hr) 68.5
				Days From Spud (days) 4.46

Drilling Contact

Comment

Daily Ops Summary

Ops and Depth @ Morning Report
DRLG 7 7/8" PROD INTERVAL @ 6,475'

Last 24hr Summary

DRLG 4,900' - 5,825'
SERVICE RIG
DRLG 5,825' - 6,475'.
LAST SURVEY @ 6,414' 2.2 DEG.

24hr Forecast

TD PRODUCTION INTERVAL

General Remarks

NO HSE INCIDENTS / NO HSE ACCIDENTS

Responsible Daily Contacts

Contact Name	Title	Phone Work
BRUMLEY TERRY	ONSITE SUPERVISOR	432-425-1489
AVENDANO JAMIE	DRILLING ENGR	832-486-2413
HAIR COTTON	D&C SUPERINT	432-368-1302
DOOLEY LYNN	D&C MANAGER	
YORK GREG	D&C DIRECTOR	

Time Log

Start Time	End Time	Dur (hrs)	Phase	Op Code	Activity Code	Time P-T-X	Depth Start (ftKB)	Depth End (ftKB)	Operation
06:00	17:00	11.00	PROD1	DRILL	DRLG	P	4,900.0	5,825.0	DRLG 4,900' - 5,825'
17:00	17:30	0.50	PROD1	DRILL	SVRG	P	5,825.0	5,825.0	SERVICE RIG
17:30	06:00	12.50	PROD1	DRILL	DRLG	P	5,825.0	6,475.0	DRLG 5,825' - 6,475'. LAST SURVEY @ 6,414' 2.2 DEG.

Head Count / Man Hours

Company	Function	Personnel Type	Count	Time (hrs)	Tot Time (hrs)
BAROID MUD CO	MUD PERSONNEL	CONTRACTOR	1	4.00	4.00
CONOCOPHILLIPS CO	ONSITE SUPERVISOR	EMPLOYEE	1	18.00	18.00
E L FARMER TRUCKING	TRUCKER	CONTRACTOR	1	3.00	3.00
H & P DRILLING	RIG CREW	CONTRACTOR	10	12.50	125.00
H & P DRILLING	TOOL PUSHER/RIG MGR	CONTRACTOR	1	18.00	18.00
SELMAN & ASSOCIATES	OTHER	CONTRACTOR	2	12.00	24.00

Mud Data

Type	Solids, Corr. (%)	LGS (%)	Sand (%)	MBT (lb/bbl)	Chlorides (mg/L)	Calcium (mg/L)	ECD - Manual Entr...
Salt Base							
Density (lb/gal) 10.00	Vis (s/qt)	T (visc) (°F)	PV Calc (cp)	YP Calc (lb/100...)	Vis 600rpm (rpm)	Vis 300rpm (rpm)	Vis 200rpm
Vis 6rpm	Vis 3rpm	Gel (10s) (lb/10...)	Gel (10m) (lb/1...)	Gel (30m) (lb/1...)	API Filtrate (mL/...)	HTHP Filt (mL/3...)	API Cake (/32")
Electric Stab (V)	Mud Lost (Hole)...	Mud Vol (Act) (b...)	Active Mud Vol...	T (fl) (°F)	pH 10.0	Pm (mL/mL)	Mf (mL/mL)
							Pf (mL/mL)

Observation Cards (BST, STOP, etc)

Observ Type	No. Rpts	Comment
JSA / GO CARD DISCUSSION	22	
STOP INTERVENTIONS	17	UNSAFE
STOP INTERVENTIONS	2	SAFE
STOP INTERVENTIONS	2	STOP THE JOB DRILL/ NOT WEARING RESPIRATORY PROTECTION WHILE MIXING CHEMICALS

Safety Meetings / Operational Checks

Date	Type	Description
1/25/2011 06:00	Pre-Job Safety Meeting	LAST DAY
1/25/2011 15:00	BOP Drill	45 SECONDS RESONSE
1/25/2011 18:00	Pre-Job Safety Meeting	LAST DAY
1/26/2011 02:30	H2S Drill	60 SECONDS RESONSE

BOP INFO

Date of Last Test	Description	ID (in)	Start Date	End Date	Class	Height (ft)	Pres (psi)	Service	Clear (ft)
1/23/2011	SHAHER	11	1/22/2011				3,000.0		

Shaker Screens

Description	Make	Model	Deck No.	Screen No.	Scr Sz X	Scr Sz Y

Pump Operations

Pump Number	Liner Size (in)	Volume Per Stroke Override (bbl/stk)
1	5 1/2	0.059
Pump Number	Liner Size (in)	Volume Per Stroke Override (bbl/stk)
2	5 1/2	0.059

Pump Checks

Make	Model	No.	Depth (ftKB)	Pres (psi)	Slow Spd	Strokes (spm)	Stroke (in)	Eff (%)
Gardner-Denver	2210	1	5,919.0	202.0	Yes	25	7.99	95
Gardner-Denver	2210	1	5,919.0	617.0	Yes	50	7.99	95
Gardner-Denver	2210	1	6,450.0	2,350.0	No	100	7.99	95
Gardner-Denver	2210	2	5,919.0	617.0	No	50	7.99	95
Gardner-Denver	2210	2	5,919.0	202.0	Yes	25	7.99	95
Gardner-Denver	2210	2	6,450.0	2,350.0	No	100	7.99	95

Drill Bit - 7 7/8in, JZ, PL616S6V184, SO7429

Bit Run	Bit Type	Size (in)	Make	Model	Serial Number
1	JZ	7 7/8	JZ	PL616S6V184	SO7429
Depth In (ftKB)	Depth Out (ftKB)	Depth Drilled (ft)	Drilling Time (hrs)	BHA ROP (ft/hr)	TFA (incl Noz) (in²)
1,512.0	6,475.0	4,963.00	60.50	82.0	0.45
IADC Bit Dull	Nozzles (/32")	RPM (min) (rpm)	RPM (max) (rpm)	WOB (min) (1000lbf)	WOB (max) (1000lbf)
-----	14/14/14	145	145	16,000	21,000

Drill String Components

Item Description	Tally Jts	OD (in)	ID (in)	Len (ft)	Tally Len (ft)	Wt (lbf)	Btm Conn Sz (in)	Top Conn Sz (in)	Btm Thread	Top Thread	Cum Wt (1000lbf)	Cum Len (ft)
Drill Pipe		4 1/2	3.826	6,058.00		100,562.8	4 1/2	4 1/2	XH	XH	159	6,649.25
Drill Collar		6 1/2	2.250	542.61		53,962.6	4 1/2	4 1/2	XH	XH	58	591.25
Stabilizer		6 1/4	2.750	6.37		633.2	4 1/2	4 1/2	XH	XH	4	48.64
Inclination Sub		6 3/4	2.250	10.08		872.1	4 1/2	4 1/2	XH	XH	3	42.27
Mud Motor (NOV)		6 1/4	2.750	29.53		2,480.5	4 1/2	4 1/2	XH	XH	2	32.19
Bit Sub		6 1/4		1.66			4 1/2	4 1/2	XH	XH	0	2.66

Drilling Parameters

Start (ftKB)	End (ftKB)	Cum Depth (ft)	Drilling Time (hrs)	Int ROP (ft/hr)	Flow Rate (gpm) (gpm)	WOB (lbf)	RPM (rpm)	SPP (psi)	Drill Tq	TFO (°)	dP (SPP) (psi)
4,900.0	6,475.0	4,963.00	23.00	68.5	468	20,999,9...	65	2,350.0			

Bulk Fluids Amounts

Date	Supply Item Description	Type	Unit Label	Unit Size	Received	Consumed	Returned	Note	Cum Received	Cum Consumed	Cum Returned
1/26/2011	Diesel Fuel - Rig	Fuel	gal us			1,619.0			8,540.0	5,342.0	0.0
1/26/2011	Drilling Water	Water	bbl			500.0			5,100.0	1,250.0	0.0
1/26/2011	Potable Water	Water	gal us			500.0			5,000.0	2,500.0	0.0
1/26/2011	Rig Water	Water	bbl		120.0	100.0			1,170.0	790.0	0.0

Survey Data

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Depart (ft)	Build (°/100ft)	NS (ft)	EW (ft)	Method
4,973.00	0.50		4,971.93		-0.16			Inc-MWD
5,470.00	0.90		5,468.89		0.08			Inc-MWD
5,741.00	1.40		5,739.83		0.18			Inc-MWD
5,875.00	2.20		5,873.77		0.60			Inc-MWD
5,966.00	2.20		5,964.70		0.00			Inc-MWD
6,052.00	2.30		6,050.63		0.12			Inc-MWD
6,143.00	2.00		6,141.57		-0.33			Inc-MWD
6,234.00	2.30		6,232.50		0.33			Inc-MWD
6,325.00	2.20		6,323.43		-0.11			Inc-MWD
6,414.00	2.20		6,412.37		0.00			Inc-MWD

Casing Strings

Casing Description	OD (in)	Set Depth (ftKB)	Top (ftKB)	Run Date	Drift Min (in)	Wt (lbs/ft)	Dens Fluid (lb/gal)	P (LO) (psi)
Conductor	16	80.0	16.0	1/20/2011		65.00		
Surface	8 5/8	1,503.2	16.0	1/22/2011		24.00	11.89	942.0



Daily Drilling Report

UNIVERSITY ANDREWS 163

Report Date: 1/26/2011
Report #: 7
Actual Days: 6.23

Well Info

API / UWI 4200342376	Region/Division PERMIAN	District PERMIAN	Field Name EMBAR	Original Spud Date 1/21/2011
State/Province TEXAS	County ANDREWS	Latitude (DMS) 32° 8' 59.69" N	Longitude (DMS) 102° 43' 28.852" W	Well Type Development
Ground Elevation (ft) 3,252.00	Orig KB/RT (ft) 3,268.00	KB-Ground Distance (ft) 16.00	AFE / RFE / Maint.# WA5.CTX.0230	Network/Project ID Number 10235451
Last Casing String Surface, 1,503.2ftKB	AFE Duration Total (days) 8.00	Plan TMD (ftKB)	Daily Cost Total 54,500.00	Cumulative Cost 370,219.00
Rig HELMERICH & PAYNE, H & P 306	Wellbore Original Hole	Depth End (ftKB) 6,785.0	Depth Progress (ft) 310.00	Depth End (TVD) (ftKB) 6,783.1
Days LTI (days) 936.00	Days RI (days) 895.00	Hole Condition GOOD	Drilling Hours (hrs) 10.00	Average ROP (ft/hr) 31.0
Days From Spud (days) 5.46				

Drilling Contact

Comment

Daily Ops Summary

Ops and Depth @ Morning Report

DRLG 7 7/8" PROD INTERVAL @ 6,785'

Last 24hr Summary

DRLG 6475 - 6775, CIRC, POOH FOR BIT CHANGE, TIH WITH BHA #3. REAMING BRIDGES. CIRC BOTTOMS UP. DRLG 6775 - 6785

24hr Forecast

TD PRODUCTION INTERVAL

General Remarks

NO HSE INCIDENTS / NO HSE ACCIDENTS

Responsible Daily Contacts

Contact Name	Title	Phone Work
BRUMLEY TERRY	ONSITE SUPERVISOR	432-425-1489
AVENDANO JAMIE	DRILLING ENGR	832-486-2413
HAIR COTTON	D&C SUPERINT	432-368-1302
DOOLEY LYNN	D&C MANAGER	
YORK GREG	D&C DIRECTOR	

Time Log

Start Time	End Time	Dur (hrs)	Phase	Op Code	Activity Code	Time P-T-X	Depth Start (ftKB)	Depth End (ftKB)	Operation
06:00	15:30	9.50	PROD1	DRILL	DRLG	P	6,475.0	6,775.0	DRLG 5,825' - 6,475'. LAST SURVEY @ 6,727' 2.2 DEG.
15:30	16:30	1.00	PROD1	DRILL	CIRC	P	6,775.0	6,775.0	CIRCULATE & PREPARE TO POOH FOR BIT CHANGE
16:30	22:00	5.50	PROD1	DRILL	TRIP	P	6,775.0	6,775.0	POOH WITH BHA #2 FOR BIT CHANGE
22:00	23:00	1.00	PROD1	DRILL	PULD	P	6,775.0	6,775.0	PU NEW MOTOR & BIT & TEST MOTOR
23:00	04:30	5.50	PROD1	DRILL	TRIP	P	6,775.0	6,775.0	TIH WITH BHA #3. WORK THRU BRIDGES @: 4300, 4350, 4815, 4945, 4990, 5100, 6140, 6170, 6210. DRAGGING 25K, REAM THRU ALL TIGHT SPOTS.
04:30	05:30	1.00	PROD1	DRILL	CIRC	P	6,775.0	6,775.0	BREAK CIRCLATION & PUMP SWEEP
05:30	06:00	0.50	PROD1	DRILL	DRLG	P	6,775.0	6,785.0	DRLG 6775 - 6785

Head Count / Man Hours

Company	Function	Personnel Type	Count	Time (hrs)	Tot Time (hrs)
ARGUINDEGUI OIL CO	FUEL HAULER	CONTRACTOR	1	4.00	4.00
ARGUINDEGUI OIL CO	VENDOR	EMPLOYEE	2	2.00	4.00
BAROID MUD CO	MUD PERSONNEL	CONTRACTOR	1	4.00	4.00
CONOCOPHILLIPS CO	ONSITE SUPERVISOR	EMPLOYEE	1	18.00	18.00
CONOCOPHILLIPS CO	SUPERINTENDENT	EMPLOYEE	1	6.00	6.00
E L FARMER TRUCKING	TRUCKER	CONTRACTOR	1	3.00	3.00
E L FARMER TRUCKING	TRUCKER	CONTRACTOR	4	4.00	16.00
H & P DRILLING	RIG CREW	CONTRACTOR	10	12.50	125.00
H & P DRILLING	TOOL PUSHER/RIG MGR	CONTRACTOR	1	18.00	18.00
HB RENTALS	VENDOR	CONTRACTOR	1	4.00	4.00
JZ BITS	VENDOR	CONTRACTOR	1	2.00	2.00
RIG RUNNERS	TRUCKER	CONTRACTOR	1	3.00	3.00
SCHLUMBERGER WELL SERVICES	VENDOR	CONTRACTOR	1	2.00	2.00
SELMAN & ASSOCIATES	OTHER	CONTRACTOR	2	12.00	24.00
UNITED RENTALS INC	OTHER	CONTRACTOR	1	8.00	8.00
WEATHERFORD	VENDOR	CONTRACTOR	1	2.00	2.00

Mud Data

Type	Solids, Corr. (%)	LGS (%)	Sand (%)	MBT (lb/bbl)	Chlorides (mg/L)	Calcium (mg/L)	ECD - Manual Entr...
Salt Base							
Density (lb/gal)	Vis (s/qt)	T (visc) (°F)	PV Calc (cp)	YP Calc (lb/100...	Vis 600rpm (rpm)	Vis 300rpm (rpm)	Vis 200rpm
9.90							
Vis 6rpm	Vis 3rpm	Gel (10s) (lb/10...	Gel (10m) (lb/1...	Gel (30m) (lb/1...	API Filtrate (mL/...	HTHP Filt (mL/3...	API Cake (/32")
Electric Stab (V)	Mud Lost (Hole)...	Mud Vol (Act) (b...	Active Mud Vol...	T (fl) (°F)	pH	Pm (mL/mL)	Mf (mL/mL)
					10.0		Pf (mL/mL)

Observation Cards (BST, STOP, etc)

Observ Type	No. Rpts	Comment
JSA / GO CARD DISCUSSION	32	
STOP INTERVENTIONS	2	STOP THE JOB DRILL/ WEARING WRONG FALL PROTECTION HARNESS
STOP INTERVENTIONS	8	UNSAFE
STOP INTERVENTIONS	2	SAFE

Safety Meetings / Operational Checks

Date	Type	Description
1/26/2011 06:00	Pre-Job Safety Meeting	FIRST DAY BACK
1/26/2011 06:00	Pre-Job Safety Meeting	MUD UP
1/26/2011 09:00	Safety Meeting	INSPECTING CASING
1/26/2011 09:00	Safety Meeting	UNLOADING CASING
1/26/2011 15:00	BOP Drill	45 SECONDS RESONSE
1/27/2011 02:30	H2S Drill	60 SECONDS RESONSE

BOP INFO

Date of Last Test	Description	ID (in)	Start Date	End Date	Class	Height (ft)	Pres (psi)	Service	Clear (ft)
1/23/2011	SHAHER	11	1/22/2011				3,000.0		

Shaker Screens

Description	Make	Model	Deck No.	Screen No.	Scr Sz X	Scr Sz Y

Pump Operations

Pump Number	Liner Size (in)	Volume Per Stroke Override (bbl/stk)
1	5 1/2	0.059
Pump Number	Liner Size (in)	Volume Per Stroke Override (bbl/stk)
2	5 1/2	0.059

Pump Checks

Make	Model	No.	Depth (ftKB)	Pres (psi)	Slow Spd	Strokes (spm)	Stroke (in)	Eff (%)
Gardner-Denver	2210	1	6,503.0	200.0	Yes	25	7.99	95
Gardner-Denver	2210	1	6,503.0	665.0	Yes	50	7.99	95
Gardner-Denver	2210	1	6,780.0	2,500.0	No	100	7.99	95
Gardner-Denver	2210	2	6,503.0	200.0	Yes	25	7.99	95
Gardner-Denver	2210	2	6,503.0	665.0	Yes	50	7.99	95
Gardner-Denver	2210	2	6,780.0	2,500.0	No	100	7.99	95

Drill Bit - 7 7/8in, JZ, PL616S6V184, SO7429

Bit Run	Bit Type	Size (in)	Make	Model	Serial Number
1	JZ	7 7/8	JZ	PL616S6V184	SO7429
Depth In (ftKB)	Depth Out (ftKB)	Depth Drilled (ft)	Drilling Time (hrs)	BHA ROP (ft/hr)	TFA (incl Noz) (in²)
1,512.0	6,775.0	5,263.00	70.00	75.2	0.45
IADC Bit Dull	Nozzles (/32")	RPM (min) (rpm)	RPM (max) (rpm)	WOB (min) (1000lbf)	WOB (max) (1000lbf)
2-3-LT-S-X-0-CT-PR	14/14/14	145	145	16,000	21,000

Drill String Components

Item Description	Tally Jts	OD (in)	ID (in)	Len (ft)	Tally Len (ft)	Wt (lbf)	Btm Conn Sz (in)	Top Conn Sz (in)	Btm Thread	Top Thread	Cum Wt (1000lbf)	Cum Len (ft)
Drill Pipe		4 1/2	3.826	6,058.00		100,562.8	4 1/2	4 1/2	XH	XH	159	6,649.25
Drill Collar		6 1/2	2.250	542.61		53,962.6	4 1/2	4 1/2	XH	XH	58	591.25
Stabilizer		6 1/4	2.750	6.37		633.2	4 1/2	4 1/2	XH	XH	4	48.64
Inclination Sub		6 3/4	2.250	10.08		872.1	4 1/2	4 1/2	XH	XH	3	42.27
Mud Motor (NOV)		6 1/4	2.750	29.53		2,480.5	4 1/2	4 1/2	XH	XH	2	32.19
Bit Sub		6 1/4	1.66				4 1/2	4 1/2	XH	XH	0	2.66

Drilling Parameters

Start (ftKB)	End (ftKB)	Cum Depth (ft)	Drilling Time (hrs)	Int ROP (ft/hr)	Flow Rate (gpm) (gpm)	WOB (lbf)	RPM (rpm)	SPP (psi)	Drill Tq	TFO (°)	dP (SPP) (psi)
6,475.0	6,775.0	5,263.00	9.50	31.6	468	20,999,9...	65	2,350.0			

Drill Bit - 7 7/8in, JZ, PL616D6V129, SO7140

Bit Run	Bit Type	Size (in)	Make	Model	Serial Number
1	JZ	7 7/8	JZ	PL616D6V129	SO7140
Depth In (ftKB)	Depth Out (ftKB)	Depth Drilled (ft)	Drilling Time (hrs)	BHA ROP (ft/hr)	TFA (incl Noz) (in²)
6,775.0	7,350.0	575.00	11.50	50.0	0.45
IADC Bit Dull	Nozzles (/32")	RPM (min) (rpm)	RPM (max) (rpm)	WOB (min) (1000lbf)	WOB (max) (1000lbf)
-----	14/14/14	140	145	18,000	21,000



Daily Drilling Report

UNIVERSITY ANDREWS 163

Report Date: 1/26/2011
Report #: 7
Actual Days: 6.23

Drill String Components

Item Description	Tally Jts	OD (in)	ID (in)	Len (ft)	Tally Len (ft)	Wt (lbf)	Btm Conn Sz (in)	Top Conn Sz (in)	Btm Thread	Top Thread	Cum Wt (1000lbf)	Cum Len (ft)
Drill Pipe		4 1/2	3.826	6,058.00		100,562.8	4 1/2	4 1/2	XH	XH	159	6,650.33
Drill Collar		6 1/2	2.250	542.61		53,962.6	4 1/2	4 1/2	XH	XH	58	592.33
Stabilizer		6 1/4	2.750	6.37		633.2	4 1/2	4 1/2	XH	XH	4	49.72
Inclination Sub		6 3/4	2.250	10.08		872.1	4 1/2	4 1/2	XH	XH	3	43.35
Mud Motor (COUGAR)		6 1/4	2.750	30.45		2,557.8	4 1/2	4 1/2	XH	XH	3	33.27
Bit Sub		6 1/4		1.82			4 1/2	4 1/2	XH	XH	0	2.82

Drilling Parameters

Start (ftKB)	End (ftKB)	Cum Depth (ft)	Drilling Time (hrs)	Int ROP (ft/hr)	Flow Rate (gpm) (gpm)	WOB (lbf)	RPM (rpm)	SPP (psi)	Drill Tq	TFO (°)	dP (SPP) (psi)
6,775.0	6,785.0	10.00	0.50	20.0	468	18,000,0...	65	2,500.0	4,600.0		

Bulk Fluids Amounts

Date	Supply Item Description	Type	Unit Label	Unit Size	Received	Consumed	Returned	Note	Cum Received	Cum Consumed	Cum Returned
1/27/2011	Diesel Fuel - Rig	Fuel	gal us		3,080.0	1,151.0			11,620.0	6,493.0	0.0
1/27/2011	Drilling Water	Water	bbl			200.0			5,100.0	1,450.0	0.0
1/27/2011	Potable Water	Water	gal us			700.0			5,000.0	3,200.0	0.0
1/27/2011	Rig Water	Water	bbl			100.0			1,170.0	890.0	0.0

Survey Data

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Depart (ft)	Build (°/100ft)	NS (ft)	EW (ft)	Method
6,499.00	2.00		6,497.31		-0.24			Inc-MWD
6,727.00	2.20		6,725.16		0.09			Inc-MWD

Casing Strings

Casing Description	OD (in)	Set Depth (ftKB)	Top (ftKB)	Run Date	Drift Min (in)	Wt (lbs/ft)	Dens Fluid (lb/gal)	P (LO) (psi)
Conductor	16	80.0	16.0	1/20/2011		65.00		
Surface	8 5/8	1,503.2	16.0	1/22/2011		24.00	11.89	942.0
Production1	5 1/2	7,337.7	-4.0	1/29/2011		17.00		

General Notes

Comment



Daily Drilling Report

UNIVERSITY ANDREWS 163

Report Date: 1/27/2011
Report #: 8
Actual Days: 7.23

Well Info

API / UWI 4200342376	Region/Division PERMIAN	District PERMIAN	Field Name EMBAR	Original Spud Date 1/21/2011
State/Province TEXAS	County ANDREWS	Latitude (DMS) 32° 8' 59.69" N	Longitude (DMS) 102° 43' 28.852" W	Well Type Development
Ground Elevation (ft) 3,252.00	Orig KB/RT (ft) 3,268.00	KB-Ground Distance (ft) 16.00	AFE / RFE / Maint.# WA5.CTX.0230	Network/Project ID Number 10235451
Last Casing String Surface, 1,503.2ftKB	AFE Duration Total (days) 8.00	Plan TMD (ftKB)	Daily Cost Total 27,900.00	Cumulative Cost 398,119.00
Rig HELMERICH & PAYNE, H & P 306	Wellbore Original Hole	Depth End (ftKB) 7,350.0	Depth Progress (ft) 565.00	Depth End (TVD) (ftKB)
Days LTI (days) 937.00	Days RI (days) 896.00	Hole Condition GOOD	Drilling Hours (hrs) 11.00	Average ROP (ft/hr) 51.4
Days From Spud (days) 6.46				

Drilling Contact

Comment

Daily Ops Summary

Ops and Depth @ Morning Report
POOH FOR LOGS

Last 24hr Summary

DRLG 6785 - 7350. CIRC . WIPER TRIP. SAFETY STAND DOWN. CIRC. POOH FOR LOGS

24hr Forecast

LOGGING, RU & RUN CASING.

General Remarks

NO HSE INCIDENTS / NO HSE ACCIDENTS

Responsible Daily Contacts

Contact Name	Title	Phone Work
BRUMLEY TERRY	ONSITE SUPERVISOR	432-425-1489
AVENDANO JAMIE	DRILLING ENGR	832-486-2413
HAIR COTTON	D&C SUPERINT	432-368-1302
DOOLEY LYNN	D&C MANAGER	
YORK GREG	D&C DIRECTOR	

Time Log

Start Time	End Time	Dur (hrs)	Phase	Op Code	Activity Code	Time P-T-X	Depth Start (ftKB)	Depth End (ftKB)	Operation
06:00	17:00	11.00	PROD1	DRILL	DRLG	P	6,785.0	7,350.0	DRLG 6,785' - 7,350'.
17:00	17:30	0.50	PROD1	DRILL	SRVY	P	7,350.0	7,350.0	TELEDRIFT SURVEY @ 7,299 / 1.4 DEG.
17:30	18:00	0.50	PROD1	DRILL	SVRG	P	7,350.0	7,350.0	RIG SERVICE
18:00	19:00	1.00	PROD1	DRILL	CIRC	P	7,350.0	7,350.0	CIRCULATE @ TD
19:00	20:30	1.50	PROD1	DRILL	WPRT	P	7,350.0	7,350.0	WIPER TRIP TO 4500. SHUT DOWN FOR H&P SAFETY STAND DOWN.
20:30	21:00	0.50	PROD1	DRILL	SFTY	P	7,350.0	7,350.0	SAFETY STAND DOWN.
21:00	02:30	5.50	PROD1	DRILL	WPRT	P	7,350.0	7,350.0	WIPER TRIP TO 3600'
02:30	04:00	1.50	PROD1	DRILL	CIRC	P	7,350.0	7,350.0	CIRCULATE @ TD
04:00	06:00	2.00	PROD1	DRILL	TRIP	P	7,350.0	7,350.0	POOH FOR LOGS

Head Count / Man Hours

Company	Function	Personnel Type	Count	Time (hrs)	Tot Time (hrs)
BAROID MUD CO	MUD PERSONNEL	CONTRACTOR	1	4.00	4.00
CONOCOPHILLIPS CO	ONSITE SUPERVISOR	EMPLOYEE	1	18.00	18.00
E L FARMER TRUCKING	TRUCKER	CONTRACTOR	1	3.00	3.00
H & P DRILLING	RIG CREW	CONTRACTOR	10	12.50	125.00
H & P DRILLING	TOOL PUSHER/RIG MGR	CONTRACTOR	1	18.00	18.00
SELMAN & ASSOCIATES	OTHER	CONTRACTOR	2	12.00	24.00

Mud Data

Type Salt Base	Solids, Corr. (%)	LGS (%)	Sand (%)	MBT (lb/bbl)	Chlorides (mg/L)	Calcium (mg/L)	ECD - Manual Entr...
Density (lb/gal) 10.00	Vis (s/qt) 35	T (visc) (°F)	PV Calc (cp)	YP Calc (lb/100...)	Vis 600rpm (rpm)	Vis 300rpm (rpm)	Vis 200rpm
Vis 6rpm	Vis 3rpm	Gel (10s) (lb/10...)	Gel (10m) (lb/1...)	Gel (30m) (lb/1...)	API Filtrate (mL/...)	HTHP Filt (mL/3...)	API Cake (/32")
Vis 100rpm							Oil Water Ratio
Electric Stab (V)	Mud Lost (Hole)...	Mud Vol (Act) (b...)	Active Mud Vol...	T (fl) (°F)	pH 10.0	Pm (mL/mL)	Mf (mL/mL)
							Pf (mL/mL)

Observation Cards (BST, STOP, etc)

Observ Type	No. Rpts	Comment
JSA / GO CARD DISCUSSION	35	
STOP INTERVENTIONS	12	UNSAFE
STOP INTERVENTIONS	1	STOP THE JOB DRILL/ MOVING DP WITH UNEVEN LOAD

Observation Cards (BST, STOP, etc)

Observ Type	No. Rpts	Comment
STOP INTERVENTIONS	2	SAFE

Safety Meetings / Operational Checks

Date	Type	Description
1/27/2011 06:00	Pre-Job Safety Meeting	MIXING MUD PRODUCTS
1/27/2011 13:00	BOP Drill	40 SECONDS RESONSE
1/27/2011 18:00	Pre-Job Safety Meeting	TRIPPING PIPE
1/27/2011 21:00	Safety Meeting	STAND DOWN
1/28/2011 02:30	H2S Drill	50 SECONDS RESONSE

BOP INFO

Date of Last Test	Description	ID (in)	Start Date	End Date	Class	Height (ft)	Pres (psi)	Service	Clear (ft)
1/23/2011	SHAHER	11	1/22/2011				3,000.0		

Shaker Screens

Description	Make	Model	Deck No.	Screen No.	Scr Sz X	Scr Sz Y

Pump Operations

Pump Number	Liner Size (in)	Volume Per Stroke Override (bbl/stk)
1	5 1/2	0.059
Pump Number	Liner Size (in)	Volume Per Stroke Override (bbl/stk)
2	5 1/2	0.059

Pump Checks

Make	Model	No.	Depth (ftKB)	Pres (psi)	Slow Spd	Strokes (spm)	Stroke (in)	Eff (%)
Gardner-Denver	2210	1	7,046.0	250.0	Yes	25	7.99	95
Gardner-Denver	2210	1	7,046.0	700.0	Yes	50	7.99	95
Gardner-Denver	2210	1	7,350.0	2,500.0	No	100	7.99	95
Gardner-Denver	2210	2	7,046.0	700.0	Yes	50	7.99	95
Gardner-Denver	2210	2	7,046.0	250.0	Yes	25	7.99	95
Gardner-Denver	2210	2	7,350.0	2,500.0	No	100	7.99	95

Drill Bit - 7 7/8in, JZ, PL616D6V129, SO7140

Bit Run	Bit Type	Size (in)	Make	Model	Serial Number
1	JZ	7 7/8	JZ	PL616D6V129	SO7140
Depth In (ftKB)	Depth Out (ftKB)	Depth Drilled (ft)	Drilling Time (hrs)	BHA ROP (ft/hr)	TFA (incl Noz) (in²)
6,775.0	7,350.0	575.00	11.50	50.0	0.45
IADC Bit Dull	Nozzles (/32")	RPM (min) (rpm)	RPM (max) (rpm)	WOB (min) (1000lbf)	WOB (max) (1000lbf)
-----	14/14/14	140	145	18,000	21,000

Drill String Components

Item Description	Tally Jts	OD (in)	ID (in)	Len (ft)	Tally Len (ft)	Wt (lbf)	Btm Conn Sz (in)	Top Conn Sz (in)	Btm Thread	Top Thread	Cum Wt (1000lbf)	Cum Len (ft)
Drill Pipe		4 1/2	3.826	6,058.00		100,562.8	4 1/2	4 1/2	XH	XH	159	6,650.33
Drill Collar		6 1/2	2.250	542.61		53,962.6	4 1/2	4 1/2	XH	XH	58	592.33
Stabilizer		6 1/4	2.750	6.37		633.2	4 1/2	4 1/2	XH	XH	4	49.72
Inclination Sub		6 3/4	2.250	10.08		872.1	4 1/2	4 1/2	XH	XH	3	43.35
Mud Motor (COUGAR)		6 1/4	2.750	30.45		2,557.8	4 1/2	4 1/2	XH	XH	3	33.27
Bit Sub		6 1/4		1.82			4 1/2	4 1/2	XH	XH	0	2.82

Drilling Parameters

Start (ftKB)	End (ftKB)	Cum Depth (ft)	Drilling Time (hrs)	Int ROP (ft/hr)	Flow Rate (gpm) (gpm)	WOB (lbf)	RPM (rpm)	SPP (psi)	Drill Tq	TFO (°)	dP (SPP) (psi)
6,785.0	7,350.0	575.00	11.00	51.4	468	20,999.9...	60	2,500.0	4,600.0		

Bulk Fluids Amounts

Date	Supply Item Description	Type	Unit Label	Unit Size	Received	Consumed	Returned	Note	Cum Received	Cum Consumed	Cum Returned
1/28/2011	Diesel Fuel - Rig	Fuel	gal us			1,359.0			11,620.0	7,852.0	0.0
1/28/2011	Drilling Water	Water	bbl			100.0			5,100.0	1,550.0	0.0
1/28/2011	Potable Water	Water	gal us			700.0			5,000.0	3,900.0	0.0
1/28/2011	Rig Water	Water	bbl		200.0	0.0			1,370.0	890.0	0.0

Survey Data

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Depart (ft)	Build (°/100ft)	NS (ft)	EW (ft)	Method
6,859.00	1.50		6,857.09		-0.53			Inc-MWD
7,088.00	1.70		7,086.00		0.09			Inc-MWD
7,299.00	1.40		7,296.92		-0.14			Inc-MWD

Casing Strings

Casing Description	OD (in)	Set Depth (ftKB)	Top (ftKB)	Run Date	Drift Min (in)	Wt (lbs/ft)	Dens Fluid (lb/gal)	P (LO) (psi)
Conductor	16	80.0	16.0	1/20/2011		65.00		
Surface	8 5/8	1,503.2	16.0	1/22/2011		24.00	11.89	942.0
Production1	5 1/2	7,337.7	-4.0	1/29/2011		17.00		

General Notes

Comment



Daily Drilling Report

UNIVERSITY ANDREWS 163

Report Date: 1/28/2011
Report #: 9
Actual Days: 8.23

Well Info

API / UWI 4200342376	Region/Division PERMIAN	District PERMIAN	Field Name EMBAR	Original Spud Date 1/21/2011
State/Province TEXAS	County ANDREWS	Latitude (DMS) 32° 8' 59.69" N	Longitude (DMS) 102° 43' 28.852" W	Well Type Development
Ground Elevation (ft) 3,252.00	Orig KB/RT (ft) 3,268.00	KB-Ground Distance (ft) 16.00	AFE / RFE / Maint.# WA5.CTX.0230	Network/Project ID Number 10235451
Last Casing String Production1, 7,337.7ftKB	AFE Duration Total (days) 8.00	Plan TMD (ftKB)	Daily Cost Total 253,865.00	Cumulative Cost 651,984.00
Rig HELMERICH & PAYNE, H & P 306	Wellbore Original Hole	Depth End (ftKB) 7,350.0	Depth Progress (ft) 0.00	Depth End (TVD) (ftKB)
Days LTI (days) 2.00	Days RI (days) 2.00	Hole Condition GOOD	Drilling Hours (hrs)	Average ROP (ft/hr)
Days From Spud (days) 7.46				

Drilling Contact

Comment

Daily Ops Summary

Ops and Depth @ Morning Report

CIRCULATE & WAIT ON KEY ENERGY SERVICES WATER TRUC

Last 24hr Summary

LD BHA #3. RU & LOG. RU & RUN PRODUCTION CASING.CIRC .

24hr Forecast

CEMENT PRODUCTION CASING. SET WH PACK OFF & TEST. ND. RD RELEASE RIG

General Remarks

NO HSE INCIDENTS / NO HSE ACCIDENTS

Responsible Daily Contacts

Contact Name	Title	Phone Work
BRUMLEY TERRY	ONSITE SUPERVISOR	432-425-1489
AVENDANO JAMIE	DRILLING ENGR	832-486-2413
HAIR COTTON	D&C SUPERINT	432-368-1302
DOOLEY LYNN	D&C MANAGER	
YORK GREG	D&C DIRECTOR	

Time Log

Start Time	End Time	Dur (hrs)	Phase	Op Code	Activity Code	Time P-T-X	Depth Start (ftKB)	Depth End (ftKB)	Operation
06:00	09:00	3.00	PROD1	DRILL	TRIP	P	7,350.0	7,350.0	POOH WITH BHA #3.
09:00	11:00	2.00	PROD1	DRILL	PULD	P	7,350.0	7,350.0	LD BHA #3.
11:00	11:30	0.50	PROD1	EVALFM	RURD	P	7,350.0	7,350.0	CLEAR FLOOR. RU LOGGING PACK-OFF.
11:30	12:00	0.50	PROD1	EVALFM	SFTY	P	7,350.0	7,350.0	HELD SAFETY MEETING WITH SCHLUMBERGER, RIG CREWS.
12:00	20:00	8.00	PROD1	EVALFM	ELOG	P	7,350.0	7,350.0	RU SCHLUMBERGER & GIH WITH RUN #1: PEX / HRLA / HNGS / BHC RD SCHLUMBERGER
20:00	21:30	1.50	PROD1	CASING	RURD	P	7,350.0	7,350.0	RIG UP CASING RUNNING TOOLS
21:30	04:00	6.50	PROD1	CASING	RNCS	P	7,350.0	7,350.0	RUN 171 JTS 5-1/2" 15.50# J-55 CASING AS FOLLOWS: HANGER & PUP JT. 132 CSG JTS MARKER JT @ 5711 14 CSG JTS MARKER JT @ 6312 23 CSG JTS FLOAT COLLAR @ 7292 1 SHOE JT GUIDE SHOE @ 7,337'
04:00	05:00	1.00	PROD1	CASING	RNCS	P	7,350.0	7,350.0	CIRCULATE & LAND CASING HANGER.
05:00	06:00	1.00	PROD1	CASING	RNCS	T	7,350.0	7,350.0	CIRCULATE & WAIT ON KEY ENERGY SERVICES WATER TRUCKS

Head Count / Man Hours

Company	Function	Personnel Type	Count	Time (hrs)	Tot Time (hrs)
CONOCOPHILLIPS CO	ONSITE SUPERVISOR	EMPLOYEE	1	18.00	18.00
H & B RENTALS	VENDOR	CONTRACTOR	1	2.00	2.00
H & P DRILLING	RIG CREW	CONTRACTOR	10	12.50	125.00
H & P DRILLING	TOOL PUSHER/RIG MGR	CONTRACTOR	1	18.00	18.00
H & P DRILLING	OTHER	CONTRACTOR	1	7.00	7.00
HALLIBURTON	VENDOR	CONTRACTOR	1	2.00	2.00
JZ BITS	VENDOR	CONTRACTOR	1	2.00	2.00
KEY ENERGY SERVICES	TRUCKER	CONTRACTOR	1	4.00	4.00



Daily Drilling Report

UNIVERSITY ANDREWS 163

Report Date: 1/28/2011
Report #: 9
Actual Days: 8.23

Head Count / Man Hours

Company	Function	Personnel Type	Count	Time (hrs)	Tot Time (hrs)
NATIONAL OILWELL	VENDOR	CONTRACTOR	1	2.00	2.00
SCHLUMBERGER	WIRELINE CREW	CONTRACTOR	3	12.00	36.00
SCHLUMBERGER	CMT CREW	CONTRACTOR	4	1.00	4.00
SMITH SERVICES	VENDOR	CONTRACTOR	1	4.00	4.00
STABIL DRILL	TOOL HAND	CONTRACTOR	1	2.00	2.00
WOOD GROUP	WELLHEAD HAND	CONTRACTOR	1	1.00	1.00

Mud Data

Type Salt Base	Solids, Corr. (%)	LGS (%)	Sand (%)	MBT (lb/bbl)	Chlorides (mg/L) 180,000	Calcium (mg/L)	ECD - Manual Entr...	
Density (lb/gal) 10.00	Vis (s/qt) 40	T (visc) (°F)	PV Calc (cp)	YP Calc (lb/100...	Vis 600rpm (rpm)	Vis 300rpm (rpm)	Vis 200rpm	Vis 100rpm
Vis 6rpm	Vis 3rpm	Gel (10s) (lb/10...	Gel (10m) (lb/1...	Gel (30m) (lb/1...	API Filtrate (mL/...	HTHP Filt (mL/3...	API Cake (/32")	Oil Water Ratio
Electric Stab (V)	Mud Lost (Hole)...	Mud Vol (Act) (b...	Active Mud Vol...	T (fl) (°F)	pH 10.0	Pm (mL/mL)	Mf (mL/mL)	Pf (mL/mL)

Observation Cards (BST, STOP, etc)

Observ Type	No. Rpts	Comment
JSA / GO CARD DISCUSSION	33	
STOP INTERVENTIONS	7	UNSAFE
STOP INTERVENTIONS	3	SAFE
STOP INTERVENTIONS	2	STJ DRILL / NO KEEPER PINS IN OVERHEAD EQUIPMENT

Safety Meetings / Operational Checks

Date	Type	Description
1/28/2011 06:00	Pre-Job Safety Meeting	LD BHA
1/28/2011 11:30	Safety Meeting	RU LOGGERS
1/28/2011 19:30	Safety Meeting	RD LOGGERS
1/28/2011 22:00	Safety Meeting	RUN CASING

BOP INFO

Date of Last Test	Description	ID (in)	Start Date	End Date	Class	Height (ft)	Pres (psi)	Service	Clear (ft)
1/23/2011	SHAHER	11	1/22/2011				3,000.0		

Shaker Screens

Description	Make	Model	Deck No.	Screen No.	Scr Sz X	Scr Sz Y

Pump Operations

Pump Number	1	Liner Size (in)	5 1/2	Volume Per Stroke Override (bbl/stk)	0.059
Pump Number	2	Liner Size (in)	5 1/2	Volume Per Stroke Override (bbl/stk)	0.059

Pump Checks

Make	Model	No.	Depth (ftKB)	Pres (psi)	Slow Spd	Strokes (spm)	Stroke (in)	Eff (%)
					No			

Drill Bit - <Drill Bit?>

Bit Run	Bit Type	Size (in)	Make	Model	Serial Number
Depth In (ftKB)	Depth Out (ftKB)	Depth Drilled (ft)	Drilling Time (hrs)	BHA ROP (ft/hr)	TFA (incl Noz) (in²)
IADC Bit Dull	Nozzles (/32")	RPM (min) (rpm)	RPM (max) (rpm)	WOB (min) (1000lbf)	WOB (max) (1000lbf)

Drill String Components

Item Description	Tally Jts	OD (in)	ID (in)	Len (ft)	Tally Len (ft)	Wt (lbf)	Btm Conn Sz (in)	Top Conn Sz (in)	Btm Thread	Top Thread	Cum Wt (1000lbf)	Cum Len (ft)

Drilling Parameters

Start (ftKB)	End (ftKB)	Cum Depth (ft)	Drilling Time (hrs)	Int ROP (ft/hr)	Flow Rate (gpm) (gpm)	WOB (lbf)	RPM (rpm)	SPP (psi)	Drill Tq	TFO (°)	dP (SPP) (psi)

Bulk Fluids Amounts

Date	Supply Item Description	Type	Unit Label	Unit Size	Received	Consumed	Returned	Note	Cum Received	Cum Consumed	Cum Returned
1/29/2011	Diesel Fuel - Rig	Fuel	gal us			590.0			11,620.0	8,442.0	0.0
1/29/2011	Drilling Water	Water	bbl			50.0			5,100.0	1,600.0	0.0
1/29/2011	Potable Water	Water	gal us			700.0			5,000.0	4,600.0	0.0
1/29/2011	Rig Water	Water	bbl			25.0			1,370.0	940.0	0.0

Survey Data

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Depart (ft)	Build (°/100ft)	NS (ft)	EW (ft)	Method



Daily Drilling Report
UNIVERSITY ANDREWS 163

Report Date: 1/28/2011
Report #: 9
Actual Days: 8.23

Casing Strings

Casing Description	OD (in)	Set Depth (ftKB)	Top (ftKB)	Run Date	Drift Min (in)	Wt (lbs/ft)	Dens Fluid (lb/gal)	P (LO) (psi)
Conductor	16	80.0	16.0	1/20/2011		65.00		
Surface	8 5/8	1,503.2	16.0	1/22/2011		24.00	11.89	942.0
Production1	5 1/2	7,337.7	-4.0	1/29/2011		17.00		

General Notes

Comment



Daily Drilling Report

UNIVERSITY ANDREWS 163

Report Date: 1/29/2011
Report #: 10
Actual Days: 8.73

Well Info

API / UWI 4200342376	Region/Division PERMIAN	District PERMIAN	Field Name EMBAR	Original Spud Date 1/21/2011
State/Province TEXAS	County ANDREWS	Latitude (DMS) 32° 8' 59.69" N	Longitude (DMS) 102° 43' 28.852" W	Well Type Development
Ground Elevation (ft) 3,252.00	Orig KB/RT (ft) 3,268.00	KB-Ground Distance (ft) 16.00	AFE / RFE / Maint.# WA5.CTX.0230	Network/Project ID Number 10235451
Last Casing String Production1, 7,337.7ftKB	AFE Duration Total (days) 8.00	Plan TMD (ftKB)	Daily Cost Total 55,746.00	Cumulative Cost 707,730.00
Rig HELMERICH & PAYNE, H & P 306	Wellbore Original Hole	Depth End (ftKB) 7,350.0	Depth Progress (ft) 0.00	Depth End (TVD) (ftKB)
Days LTI (days) 3.00	Days RI (days) 3.00	Hole Condition GOOD	Drilling Hours (hrs)	Average ROP (ft/hr)
Days From Spud (days) 7.96				

Drilling Contact

Comment

Daily Ops Summary

Ops and Depth @ Morning Report

RDMO. RIG RELEASED @ 18:00 1/29/2011

Last 24hr Summary

RUN & CEMENT PROD. CSG. ND. RD

24hr Forecast

MIRU UNIVERSITY UNDREWS 177

General Remarks

NO HSE ACCIDENT / NO HSE INCIDENT

Responsible Daily Contacts

Contact Name	Title	Phone Work
BRUMLEY TERRY	ONSITE SUPERVISOR	432-425-1489
AVENDANO JAMIE	DRILLING ENGR	832-486-2413
HAIR COTTON	D&C SUPERINT	432-368-1302
DOOLEY LYNN	D&C MANAGER	
YORK GREG	D&C DIRECTOR	

Time Log

Start Time	End Time	Dur (hrs)	Phase	Op Code	Activity Code	Time P-T-X	Depth Start (ftKB)	Depth End (ftKB)	Operation
06:00	09:00	3.00	PROD1	CEMENT	CIRC	T	7,350.0	7,350.0	CIRCULATE & CONDITION WELLBORE WAIT ON ABT FROM SCHLUMBERGER
09:00	11:30	2.50	PROD1	CEMENT	CMNT	P	7,350.0	7,350.0	PUMP CEMENT AS FOLLOWS: 20 BBL FRESH WATER SPACER, LEAD SLURRY: 650 SX 50:50 POZ C MIXED @ 11.8 PPG, W/2.58 CUFT/SX YIELD TAIL SLURRY 550 SX 50:50 POZ H MIXED @ 13.20 GAL/SX W/1.74 FT3/SX YIELD. DISPLACE W/169 BBLS FRESH WTR W/BACTRON K-31. CIRC 50 BBLS CMT TO SURF. BUMP PLUG @ 2500 PSI. CHECK FLOATS. FLOAT HELD. RD SCHLUMBERGER
11:30	12:30	1.00	PROD1	CEMENT	NUND	P	7,350.0	7,350.0	BACK OUT LANDING JT. INSTALL & TEST PACK OFF.
12:30	15:00	2.50	PROD1	CEMENT	NUND	P	7,350.0	7,350.0	REMOVE FLOWLINE BOP CHAINS LO/TO KOOMEY BLEED PRESS REMOVE KOOMEY HOSES & CHOKE LINES. ND BOPE.
15:00	18:00	3.00	PROD1	CEMENT	RURD	P	7,350.0	7,350.0	RD CASING RUNNING TOOL. ** RELEASE RIG 12/29/2010 @ 18:00**

Head Count / Man Hours

Company	Function	Personnel Type	Count	Time (hrs)	Tot Time (hrs)
BAROID MUD CO	MUD PERSONNEL	CONTRACTOR	1	2.00	2.00
CONOCOPHILLIPS CO	ONSITE SUPERVISOR	EMPLOYEE	1	18.00	18.00
H & P DRILLING	RIG CREW	CONTRACTOR	10	12.50	125.00
H & P DRILLING	TOOL PUSHER/RIG MGR	CONTRACTOR	1	18.00	18.00
KEY ENERGY SERVICES	TRUCKER	CONTRACTOR	4	7.00	28.00
SAFETY INTERNATIONAL	SAFETY PERSONNEL	CONTRACTOR	1	2.00	2.00
SCHLUMBERGER WELL SERVICES	TRUCKER	CONTRACTOR	2	3.00	6.00
SCHLUMBERGER WELL SERVICES	CMT CREW	CONTRACTOR	4	10.00	40.00



Type	Solids, Corr. (%)	LGS (%)	Sand (%)	MBT (lb/bbl)	Chlorides (mg/L)	Calcium (mg/L)	ECD - Manual Entr...	
Density (lb/gal)	Vis (s/qt)	T (visc) (°F)	PV Calc (cp)	YP Calc (lb/100...	Vis 600rpm (rpm)	Vis 300rpm (rpm)	Vis 200rpm	Vis 100rpm
Vis 6rpm	Vis 3rpm	Gel (10s) (lb/10...	Gel (10m) (lb/1...	Gel (30m) (lb/1...	API Filtrate (mL/...	HTHP Filt (mL/3...	API Cake (/32")	Oil Water Ratio
Electric Stab (V)	Mud Lost (Hole)...	Mud Vol (Act) (b...	Active Mud Vol...	T (fi) (°F)	pH	Pm (mL/mL)	Mf (mL/mL)	Pf (mL/mL)

Observ Type	No. Rpts	Comment
JSA / GO CARD DISCUSSION	28	
NEAR MISS REPORTS	0	
STOP INTERVENTIONS	15	SAFE
STOP INTERVENTIONS	35	UNSAFE

Date	Type	Description
1/29/2011 06:00	Pre-Job Safety Meeting	CEMENTING
1/29/2011 14:00	Safety Meeting	ND BOPE
1/29/2011 17:30	Pre-Job Safety Meeting	RIGGING DOWN

Date of Last Test	Description	ID (in)	Start Date	End Date	Class	Height (ft)	Pres (psi)	Service	Clear (ft)
1/23/2011	SHAFER	11	1/22/2011				3,000.0		

Description	Make	Model	Deck No.	Screen No.	Scr Sz X	Scr Sz Y

Pump Number	Liner Size (in)	Volume Per Stroke Override (bbl/stk)
1	5 1/2	0.059
Pump Number	Liner Size (in)	Volume Per Stroke Override (bbl/stk)
2	5 1/2	0.059

Make	Model	No.	Depth (ftKB)	Pres (psi)	Slow Spd	Strokes (spm)	Stroke (in)	Eff (%)
					No			

Bit Run	Bit Type	Size (in)	Make	Model	Serial Number
Depth In (ftKB)	Depth Out (ftKB)	Depth Drilled (ft)	Drilling Time (hrs)	BHA ROP (ft/hr)	TFA (incl Noz) (in²)
IADC Bit Dull	Nozzles (/32")	RPM (min) (rpm)	RPM (max) (rpm)	WOB (min) (1000lbf)	WOB (max) (1000lbf)

[illegible][illegible][illegible][illegible]

Casing Description	OD (in)	Set Depth (ftKB)	Top (ftKB)	Run Date	Drift Min (in)	Wt (lbs/ft)	Dens Fluid (lb/gal)	P (LO) (psi)
Conductor	16	80.0	16.0	1/20/2011		65.00		
Surface	8 5/8	1,503.2	16.0	1/22/2011		24.00	11.89	942.0
Production1	5 1/2	7,337.7	-4.0	1/29/2011		17.00		

General Note	Comment



Daily Completions and Workovers Report

UNIVERSITY ANDREWS 163

Report # 1
Report Date: 2/8/2011
Actual Days: 0.21

Job Type: COMPLETIONS - INITIAL COMPLETION

Well Info					
API / UWI 4200342376	Region/Division PERMIAN	District PERMIAN	Field Name EMBAR	Original Spud Date 1/21/2011	
State/Province TEXAS	County ANDREWS	Latitude (DMS) 32° 8' 59.69" N	Longitude (DMS) 102° 43' 28.852" W	Well Type Development	Well Sub Type Production
Ground Elevation (ft) 3,252.00	Orig KB/RT (ft) 3,268.00	KB-Ground Distance (ft) 16.00	AFE / RFE / Maint.# WA5.CTX.0230	Network/ID # 10235452	Total Job AFE Amount 474,800.00
Rig RIGLESS, RIGLESS	Wellbore Original Hole	Total Depth (ftKB) 7,350.00	Daily Cost Total 24,700.00	Cumulative Cost 24,700.00	

Objective
EAG 110201

Well Bore: Initial Complete and Equip. Notify Champion Chemical Representative when well is to be put on line so he can arrange to have added to the treating schedule.

Well Service: Set & Test Anchors. Pour 5 gal of CI prior to RIH w/rods and pump. Run equipment as proposed. Install rod bop below pumping tee. See attachment for Biocide squeeze that will be done before moving off the completion rig.

Pump: 20-150-RXBC-32-5 {0.005} grooved HVR clutchless. Space pump per Fiberod recommendation. Do not run a diptube. A Cavins desander will be used. Install a 4" long strainer nipple below pump per Goldsmith SOP.

Tubing: RIH w/ purge valve, 10' of 2-3/8" FG joint, 20' Cavins de-sander 2307-G and SN. Set end of tubing at ~7,231' and SN at ~7,200'. Run 20' of 2-7/8" polylined tubing subs above SN, 1 jt of 2-7/8" extreme lined tubing, 2-7/8" polylined tubing up to the TAC @ ~5680', and 2-7/8" polylined tubing to be run to surface with 22 joints of bare J-55 tubing on top. See WellView schematic for more details.

Rods: See attached WellView schematic.

Surface Equip: Prior to rigging up, deliver and install Lufkin C-640-365-144 pumping unit per MOC 14150047 (pumping unit, motor, and counterweights to be taken from producing UA 157). . Set unit running CCW, 9.4 SPM, 144" SL. Balance per XBalance w/ 2 OARO weights. Install SAM POC. Update WV, XSPOC, & SAM at start-up. Install rod rotator.

Daily Ops Summary

Tubing Pressure (psi)	Casing Pressure (psi)	Weather	Temperature (°F)	Road Condition	Lease Condition
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Ops and Depth @ Morning Report

Last 24hr Summary

MOVE IN RIG UP SCHLUMBERGER WIRELINE, RUN PDC LOG AND PERFORATE WCAB

24hr Forecast

FRAC WELL

General Remarks

Responsible Daily Contacts

Contact Name	Title	Phone Work
DAVIS STACY	ONSITE SUPERVISOR	432-664-9928

Time Log

Start Time	End Time	Cum Dur (hrs)	Op Code	Activity Code	Time P-T-X	Operation
12:00	12:30	0.50	WELL...	SFTY	P	PERFORM JSA
12:30	14:00	2.00	WELL...	RURD	P	RIG UP SCHLUMBERGER WIRELINE
14:00	15:00	3.00	EVAL...	ELOG	P	RUN PDC LOG
15:00	16:00	4.00	PERF	PERF	P	PERFORATE WCAB AS FOLLOWS
Perforations (MD) Perf Feet SPF Phase Holes						
6790	6795	5	3	60°	15	
6810	6815	5	3	60°	15	
6876	6881	5	3	60°	15	
6900	6905	5	3	60°	15	
7135	7140	5	3	60°	15	
7149	7154	5	3	60°	15	
16:00	17:00	5.00	PERF	RURD	P	RIG DOWN

Well Fluids

Fluid	Note	To (bbl)	From (bbl)	Non-recov (bbl)	Zone
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Observation Cards (BST, STOP, etc)

Observ Type	No. Rpts	Comment
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Daily Completions and Workovers Report

UNIVERSITY ANDREWS 163

Report # 1
Report Date: 2/8/2011
Actual Days: 0.21

Job Type: COMPLETIONS - INITIAL COMPLETION

Safety Meetings / Operational Checks

Time	Type	Description

Casing Strings

Casing Description	Wellbore	OD (in)	ID (in)	Tension (kips)	Set Depth (ftKB)	Len (ft)
Conductor	Original Hole	16	15.250		80.0	64.00
Surface	Original Hole	8 5/8	8.097		1,503.2	1,487.15
Production1	Original Hole	5 1/2	4.892		7,337.7	7,321.69

Tubing Strings

Tubing Description	Wellbore	OD (in)	ID (in)	Tension (lbf)	Set Depth (ftKB)	Len (ft)

Perforations

String Perforated	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Phasing (°)	Ornt
	WCAB, Original Hole	6,790.0	6,795.0	3.0	60	
	WCAB, Original Hole	6,810.0	6,815.0	3.0	60	
	WCAB, Original Hole	6,876.0	6,881.0	3.0	60	
	WCAB, Original Hole	6,900.0	6,905.0	3.0	60	
	WCAB, Original Hole	7,135.0	7,140.0	3.0	60	
	WCAB, Original Hole	7,149.0	7,154.0	3.0	60	



Daily Completions and Workovers Report

UNIVERSITY ANDREWS 163

Report # 2
Report Date: 2/9/2011
Actual Days: 0.63

Job Type: COMPLETIONS - INITIAL COMPLETION

Well Info					
API / UWI 4200342376	Region/Division PERMIAN	District PERMIAN	Field Name EMBAR	Original Spud Date 1/21/2011	
State/Province TEXAS	County ANDREWS	Latitude (DMS) 32° 8' 59.69" N	Longitude (DMS) 102° 43' 28.852" W	Well Type Development	Well Sub Type Production
Ground Elevation (ft) 3,252.00	Orig KB/RT (ft) 3,268.00	KB-Ground Distance (ft) 16.00	AFE / RFE / Maint.# WA5.CTX.0230	Network/ID # 10235452	Total Job AFE Amount 474,800.00
Rig RIGLESS, RIGLESS	Wellbore Original Hole		Total Depth (ftKB) 7,350.00	Daily Cost Total 4,700.00	Cumulative Cost 29,400.00

Objective
EAG 110201

Well Bore: Initial Complete and Equip. Notify Champion Chemical Representative when well is to be put on line so he can arrange to have added to the treating schedule.

Well Service: Set & Test Anchors. Pour 5 gal of CI prior to RIH w/rods and pump. Run equipment as proposed. Install rod bop below pumping tee. See attachment for Biocide squeeze that will be done before moving off the completion rig.

Pump: 20-150-RXBC-32-5 {0.005} grooved HVR clutchless. Space pump per Fiberod recommendation. Do not run a diptube. A Cavins desander will be used. Install a 4" long strainer nipple below pump per Goldsmith SOP.

Tubing: RIH w/ purge valve, 10' of 2-3/8" FG joint, 20' Cavins de-sander 2307-G and SN. Set end of tubing at ~7,231' and SN at ~7,200'. Run 20' of 2-7/8" polylined tubing subs above SN, 1 jt of 2-7/8" extreme lined tubing, 2-7/8" polylined tubing up to the TAC @ ~5680', and 2-7/8" polylined tubing to be run to surface with 22 joints of bare J-55 tubing on top. See WellView schematic for more details.

Rods: See attached WellView schematic.

Surface Equip: Prior to rigging up, deliver and install Lufkin C-640-365-144 pumping unit per MOC 14150047 (pumping unit, motor, and counterweights to be taken from producing UA 157). . Set unit running CCW, 9.4 SPM, 144" SL. Balance per XBalance w/ 2 OARO weights. Install SAM POC. Update WV, XSPOC, & SAM at start-up. Install rod rotator.

Daily Ops Summary

Tubing Pressure (psi)	Casing Pressure (psi)	Weather	Temperature (°F)	Road Condition	Lease Condition
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Ops and Depth @ Morning Report

Last 24hr Summary

MOVE IN RIG UP SCHLUMBERGER FRAC, HAD ISSUES WITH SCHLUMBERGER BLENDER AND MANIFOLD TRAILER AND PW INDUSTRIES SHOWER TRAILER BEING FROZEN UP, SCHLUMBERGER SAND CHIEF WOULD NOT AND PUMP WOULD NOT OPERATE, GOT ALL EQUIPMENT UP TO STANDARDS AND SDFN

24hr Forecast

FRAC WELL

General Remarks

Responsible Daily Contacts

Contact Name	Title	Phone Work
DAVIS STACY	ONSITE SUPERVISOR	432-664-9928

Time Log

Start Time	End Time	Cum Dur (hrs)	Op Code	Activity Code	Time P-T-X	Operation
06:00	06:30	0.50	WELL...	SFTY	P	PERFORM JSA
06:30	09:30	3.50	WELL...	RURD	P	RIG UP SCHLUMBERGER FRAC
09:30	15:30	9.50	WELL...	OTHR	T	EQUIPMENT FROZEN UP AND WAS NOT WORKING PROPERLY
15:30	16:00	10.00	WELL...	OTHR	P	SECURE LOCATION

Well Fluids

Fluid	Note	To (bbl)	From (bbl)	Non-recov (bbl)	Zone
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Observation Cards (BST, STOP, etc)

Observ Type	No. Rpts	Comment
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Safety Meetings / Operational Checks

Time	Type	Description
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Casing Strings

Casing Description	Wellbore	OD (in)	ID (in)	Tension (kips)	Set Depth (ftKB)	Len (ft)
Conductor	Original Hole	16	15.250		80.0	64.00
Surface	Original Hole	8 5/8	8.097		1,503.2	1,487.15



Daily Completions and Workovers Report

UNIVERSITY ANDREWS 163

Report # 2

Report Date: 2/9/2011

Actual Days: 0.63

Job Type: COMPLETIONS - INITIAL COMPLETION

Casing Strings

Casing Description	Wellbore	OD (in)	ID (in)	Tension (kips)	Set Depth (ftKB)	Len (ft)
Production1	Original Hole	5 1/2	4.892		7,337.7	7,321.69

Tubing Strings

Tubing Description	Wellbore	OD (in)	ID (in)	Tension (lbf)	Set Depth (ftKB)	Len (ft)

Perforations

String Perforated	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Phasing (°)	Ornt
	WCAB, Original Hole	6,790.0	6,795.0	3.0	60	
	WCAB, Original Hole	6,810.0	6,815.0	3.0	60	
	WCAB, Original Hole	6,876.0	6,881.0	3.0	60	
	WCAB, Original Hole	6,900.0	6,905.0	3.0	60	
	WCAB, Original Hole	7,135.0	7,140.0	3.0	60	
	WCAB, Original Hole	7,149.0	7,154.0	3.0	60	



Daily Completions and Workovers Report

UNIVERSITY ANDREWS 163

Report # 3
Report Date: 2/10/2011
Actual Days: 1.08

Job Type: COMPLETIONS - INITIAL COMPLETION

Well Info					
API / UWI 4200342376	Region/Division PERMIAN	District PERMIAN	Field Name EMBAR	Original Spud Date 1/21/2011	
State/Province TEXAS	County ANDREWS	Latitude (DMS) 32° 8' 59.69" N	Longitude (DMS) 102° 43' 28.852" W	Well Type Development	Well Sub Type Production
Ground Elevation (ft) 3,252.00	Orig KB/RT (ft) 3,268.00	KB-Ground Distance (ft) 16.00	AFE / RFE / Maint.# WA5.CTX.0230	Network/ID # 10235452	Total Job AFE Amount 474,800.00
Rig RIGLESS, RIGLESS	Wellbore Original Hole	Total Depth (ftKB) 7,350.00	Daily Cost Total 281,400.00	Cumulative Cost 310,800.00	

Objective
EAG 110201

Well Bore: Initial Complete and Equip. Notify Champion Chemical Representative when well is to be put on line so he can arrange to have added to the treating schedule.

Well Service: Set & Test Anchors. Pour 5 gal of CI prior to RIH w/rods and pump. Run equipment as proposed. Install rod bop below pumping tee. See attachment for Biocide squeeze that will be done before moving off the completion rig.

Pump: 20-150-RXBC-32-5 {0.005} grooved HVR clutchless. Space pump per Fiberod recommendation. Do not run a diptube. A Cavins desander will be used. Install a 4" long strainer nipple below pump per Goldsmith SOP.

Tubing: RIH w/ purge valve, 10' of 2-3/8" FG joint, 20' Cavins de-sander 2307-G and SN. Set end of tubing at ~7,231' and SN at ~7,200'. Run 20' of 2-7/8" polylined tubing subs above SN, 1 jt of 2-7/8" extreme lined tubing, 2-7/8" polylined tubing up to the TAC @ ~5680', and 2-7/8" polylined tubing to be run to surface with 22 joints of bare J-55 tubing on top. See WellView schematic for more details.

Rods: See attached WellView schematic.

Surface Equip: Prior to rigging up, deliver and install Lufkin C-640-365-144 pumping unit per MOC 14150047 (pumping unit, motor, and counterweights to be taken from producing UA 157). . Set unit running CCW, 9.4 SPM, 144" SL. Balance per XBalance w/ 2 OARO weights. Install SAM POC. Update WV, XSPOC, & SAM at start-up. Install rod rotator.

Daily Ops Summary

Tubing Pressure (psi)	Casing Pressure (psi)	Weather	Temperature (°F)	Road Condition	Lease Condition
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Ops and Depth @ Morning Report

Last 24hr Summary

FRAC WCAB, SET BP AT 6725, PERFORATE LOWER CLEARFORK, FRAC LOWER CLEARFORK, SET BP AT 6190, PERFORATE UPPER CLEARFORK, FRAC UPPER CLEARFORK, RIG DOWN MOVE OFF

24hr Forecast

RU DDU

General Remarks

Responsible Daily Contacts

Contact Name	Title	Phone Work
DAVIS STACY	ONSITE SUPERVISOR	432-664-9928

Time Log

Start Time	End Time	Cum Dur (hrs)	Op Code	Activity Code	Time P-T-X	Operation
06:00	06:30	0.50	STIM	SFTY	P	PERFORM JSA
06:30	08:30	2.50	STIM	OTHR	P	PUMP ALL PUMPS TO PIT TO ENSURE NO ICE PLUGS AND SET POP OFF



Daily Completions and Workovers Report

UNIVERSITY ANDREWS 163

Report # 3

Report Date: 2/10/2011

Actual Days: 1.08

Job Type: COMPLETIONS - INITIAL COMPLETION

Time Log

Start Time	End Time	Cum Dur (hrs)	Op Code	Activity Code	Time P-T-X	Operation																														
08:30	10:00	4.00	STIM	STIM	P	<p>FRAC WCAB AS FOLLOWS</p> <p>CONOCOPHILLIPS UNIVERSITY ANDREWS 163 2/10/2011</p> <p>WCAB LOWER CLEARFORK JOB SUMMARY</p> <p>TESTED LINES TO 6700 PSI. LOADED WELL WITH 3 BBLS OF WF110. BROKE DOWN = 2049 PSI. SPEARHEAD 4000 GALS. 15% HCL ACID. DISPLACED ACID INTO PERFS W/ 6500 GALS. WATER FRAC 110</p> <p>PUMP 21960 GALS. YF120ST-PAD @ 50 BPM @ 4305 PSI PUMP 4969 GALS. YF120ST-W/ .5 LBM/GAL 20/40 SUPER LC @ 50 BPM @ 4290 PSI, PUMP 6493 GALS. YF120ST-W/ 1 LBM/GAL 20/40 SUPER LC @ 50 BPM @ 4093 PSI, PUMP 12260 GALS. YF120ST-W/ 1.5 LBM/GAL 20/40 SUPER LC @ 50 BPM @ 4197 PSI,</p> <p>FLUSH WITH 5618 GALS. WF110 AND 1000 GAL 15% HCL @ 50 BPM @ 3502 PSI</p> <p>FINAL ISIP= 3382 PSI,</p> <p>20/40 SUPER LC 26086 LBS TOTAL PROPANT PUMPED 26086 LBS TOTAL CLEAN FLUID 67287 GALS.</p>																														
10:00	11:30	5.50	PERF	PERF	P	<p>SET BP AT 6725 AND PERFORATE LOWER CLEARFORK AS FOLLOWS</p> <table><thead><tr><th colspan="2">Perforations (MD)</th><th>Perf Feet</th><th>SPF</th><th>Phase Holes</th></tr></thead><tbody><tr><td>6520</td><td>6525</td><td>5</td><td>3</td><td>60° 15</td></tr><tr><td>6534</td><td>6539</td><td>5</td><td>3</td><td>60° 15</td></tr><tr><td>6595</td><td>6600</td><td>5</td><td>3</td><td>60° 15</td></tr><tr><td>6678</td><td>6683</td><td>5</td><td>3</td><td>60° 15</td></tr><tr><td>6703</td><td>6708</td><td>5</td><td>3</td><td>60° 15</td></tr></tbody></table>	Perforations (MD)		Perf Feet	SPF	Phase Holes	6520	6525	5	3	60° 15	6534	6539	5	3	60° 15	6595	6600	5	3	60° 15	6678	6683	5	3	60° 15	6703	6708	5	3	60° 15
Perforations (MD)		Perf Feet	SPF	Phase Holes																																
6520	6525	5	3	60° 15																																
6534	6539	5	3	60° 15																																
6595	6600	5	3	60° 15																																
6678	6683	5	3	60° 15																																
6703	6708	5	3	60° 15																																
11:30	13:00	7.00	STIM	STIM	P	<p>FRAC THE LOWER CLEARFORK AS FOLLOWS</p> <p>CONOCOPHILLIPS UNIVERSITY ANDREWS 163 2.10.2011</p> <p>LOWER CLEARFORK JOB SUMMARY</p> <p>TESTED LINES TO 7700 PSI. LOADED WELL WITH 3 BBLS OF WF110. BROKE DOWN = 2365 PSI. SPEARHEAD 3000 GALS. 15% HCL ACID. DISPLACED ACID INTO PERFS W/ 6048 GALS. WATER FRAC 110</p> <p>PUMP 13994 GALS. YF125ST-PAD @ 40 BPM @ 2993 PSI PUMP 2995 GALS. YF125ST-W/ .5 LBM/GAL 20/40 SUPER LC @ 40 BPM @ 3009 PSI, PUMP 3998 GALS. YF125ST-W/ 1 LBM/GAL 20/40 SUPER LC @ 40 BPM @ 3052 PSI, PUMP 3994 GALS. YF125ST-W/ 2 LBM/GAL 20/40 SUPER LC @ 40 BPM @ 2978 PSI, PUMP 3991 GALS. YF125ST-W/ 3 LBM/GAL 20/40 SUPER LC @ 40 BPM @ 2897 PSI, PUMP 5147 GALS. YF125ST-W/ 3.5 LBM/GAL 20/40 SUPER LC @ 40 BPM @ 2740 PSI,</p> <p>FLUSH WITH 5354 YF130ST AND 1000 GALLONS 15% HCL @ 2815 PSI</p> <p>FINAL ISIP= 2380 PSI,</p> <p>20/40 SUPER LC 40036 LBS TOTAL PROPANT PUMPED 40036 LBS TOTAL CLEAN FLUID 53499 GALS.</p>																														



Daily Completions and Workovers Report

UNIVERSITY ANDREWS 163

Report # 3

Report Date: 2/10/2011

Actual Days: 1.08

Job Type: COMPLETIONS - INITIAL COMPLETION

Time Log

Start Time	End Time	Cum Dur (hrs)	Op Code	Activity Code	Time P-T-X	Operation
13:00	14:30	8.50	PERF	PERF	P	SET BP AT 6190 AND PERFORATE UPPER CLEARFORK AS FOLLOWS Perforations (MD) Perf Feet SPF Phase Holes 5736 5741 5 1 60° 5 5775 5780 5 1 60° 5 5802 5807 5 3 60° 15 5825 5830 5 3 60° 15 5909 5914 5 3 60° 15 6082 6087 5 3 60° 15 6156 6161 5 3 60° 15
14:30	15:30	9.50	STIM	STIM	P	FRAC THE UPPER CLEARFORK AS FOLLOWS CONOCOPHILLIPS UNIVERSITY ANDREWS 163 2.10.2011 UPPER CLEARFORK JOB SUMMARY TESTED LINES TO 7700 PSI. LOADED WELL WITH 1 BBLs OF WF110. BROKE DOWN = 1751 PSI. SPEARHEAD 1500 GALS. 15% HCL ACID. DISPLACED ACID INTO PERFS W/ 6048 GALS. WATER FRAC 110 PUMP 19925 GALS. YF120ST-PAD @ 50 BPM @ 1919 PSI PUMP 2987 GALS. YF120ST-W/ 2 LBM/GAL 20/40 JORDAN @ 50 BPM @ 1948 PSI, PUMP 4996 GALS. YF120ST-W/ 3 LBM/GAL 20/40 JORDAN @ 50 BPM @ 1811 PSI, PUMP 3001 GALS. YF120ST-W/ 4 LBM/GAL 20/40 JORDAN @ 50 BPM @ 1749 PSI, PUMP 3987 GALS. YF120ST-W/ 4 LBM/GAL 20/40 SUPER LC @ 50 BPM @ 1689 PSI, PUMP 6993 GALS. YF120ST-W/ 5 LBM/GAL 20/40 SUPER LC @ 50 BPM @ 1588 PSI, PUMP 8891 GALS. YF120ST-W/ 6 LBM/GAL 20/40 SUPER LC @ 50 BPM @ 1543 PSI, FLUSH WITH 5477 GALS. WF110 @ 50 BPM @ 1918 PSI FINAL ISIP= 1773 PSI, 20/40 JORDAN 35050 LBS 20/40 SUPER LC 102598 LBS TOTAL PROPANT PUMPED 137648 LBS TOTAL CLEAN FLUID 63865 GALS.
15:30	17:00	11.00	STIM	RURD	P	RIG DOWN MOVE OFF

Well Fluids

Fluid	Note	To (bbl)	From (bbl)	Non-recov (bbl)	Zone

Observation Cards (BST, STOP, etc)

Observ Type	No. Rpts	Comment

Safety Meetings / Operational Checks

Time	Type	Description

Casing Strings

Casing Description	Wellbore	OD (in)	ID (in)	Tension (kips)	Set Depth (ftKB)	Len (ft)
Conductor	Original Hole	16	15.250		80.0	64.00
Surface	Original Hole	8 5/8	8.097		1,503.2	1,487.15
Production1	Original Hole	5 1/2	4.892		7,337.7	7,321.69

Tubing Strings

Tubing Description	Wellbore	OD (in)	ID (in)	Tension (lbf)	Set Depth (ftKB)	Len (ft)



Daily Completions and Workovers Report

UNIVERSITY ANDREWS 163

Report # 3

Report Date: 2/10/2011

Actual Days: 1.08

Job Type: COMPLETIONS - INITIAL COMPLETION

Perforations						
String Perforated	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Phasing (°)	Ornt
	UPPER CLEARFORK, Original Hole	5,736.0	5,741.0	1.0	60	
	UPPER CLEARFORK, Original Hole	5,775.0	5,780.0	1.0	60	
	UPPER CLEARFORK, Original Hole	5,802.0	5,807.0	3.0	60	
	UPPER CLEARFORK, Original Hole	5,825.0	5,830.0	3.0	60	
	UPPER CLEARFORK, Original Hole	5,909.0	5,914.0	3.0	60	
	UPPER CLEARFORK, Original Hole	6,082.0	6,087.0	3.0	60	
	UPPER CLEARFORK, Original Hole	6,156.0	6,161.0	3.0	60	
	LOWER CLEARFORK, Original Hole	6,520.0	6,525.0	3.0	60	
	LOWER CLEARFORK, Original Hole	6,534.0	6,539.0	3.0	60	
	LOWER CLEARFORK, Original Hole	6,595.0	6,600.0	3.0	60	
	LOWER CLEARFORK, Original Hole	6,678.0	6,683.0	3.0	60	
	LOWER CLEARFORK, Original Hole	6,703.0	6,708.0	3.0	60	
	WCAB, Original Hole	6,790.0	6,795.0	3.0	60	
	WCAB, Original Hole	6,810.0	6,815.0	3.0	60	
	WCAB, Original Hole	6,876.0	6,881.0	3.0	60	
	WCAB, Original Hole	6,900.0	6,905.0	3.0	60	
	WCAB, Original Hole	7,135.0	7,140.0	3.0	60	
	WCAB, Original Hole	7,149.0	7,154.0	3.0	60	



Daily Completions and Workovers Report

UNIVERSITY ANDREWS 163

Report # 4

Report Date: 2/14/2011

Actual Days: 1.42

Job Type: COMPLETIONS - INITIAL COMPLETION

Well Info					
API / UWI 4200342376	Region/Division PERMIAN	District PERMIAN	Field Name EMBAR	Original Spud Date 1/21/2011	
State/Province TEXAS	County ANDREWS	Latitude (DMS) 32° 8' 59.69" N	Longitude (DMS) 102° 43' 28.852" W	Well Type Development	Well Sub Type Production
Ground Elevation (ft) 3,252.00	Orig KB/RT (ft) 3,268.00	KB-Ground Distance (ft) 16.00	AFE / RFE / Maint.# WA5.CTX.0230	Network/ID # 10235452	Total Job AFE Amount 474,800.00
Rig KEY ENERGY SERVICES, KEY 616	Wellbore Original Hole	Total Depth (ftKB) 7,350.00	Daily Cost Total 9,400.00	Cumulative Cost 320,200.00	

Objective
EAG 110201

Well Bore: Initial Complete and Equip. Notify Champion Chemical Representative when well is to be put on line so he can arrange to have added to the treating schedule.

Well Service: Set & Test Anchors. Pour 5 gal of CI prior to RIH w/rods and pump. Run equipment as proposed. Install rod bop below pumping tee. See attachment for Biocide squeeze that will be done before moving off the completion rig.

Pump: 20-150-RXBC-32-5 {0.005} grooved HVR clutchless. Space pump per Fiberod recommendation. Do not run a diptube. A Cavins desander will be used. Install a 4" long strainer nipple below pump per Goldsmith SOP.

Tubing: RIH w/ purge valve, 10' of 2-3/8" FG joint, 20' Cavins de-sander 2307-G and SN. Set end of tubing at ~7,231' and SN at ~7,200'. Run 20' of 2-7/8" polylined tubing subs above SN, 1 jt of 2-7/8" extreme lined tubing, 2-7/8" polylined tubing up to the TAC @ ~5680', and 2-7/8" polylined tubing to be run to surface with 22 joints of bare J-55 tubing on top. See WellView schematic for more details.

Rods: See attached WellView schematic.

Surface Equip: Prior to rigging up, deliver and install Lufkin C-640-365-144 pumping unit per MOC 14150047 (pumping unit, motor, and counterweights to be taken from producing UA 157). . Set unit running CCW, 9.4 SPM, 144" SL. Balance per XBalance w/ 2 OARO weights. Install SAM POC. Update WV, XSPOC, & SAM at start-up. Install rod rotator.

Daily Ops Summary

Tubing Pressure (psi)	Casing Pressure (psi)	Weather	Temperature (°F)	Road Condition	Lease Condition
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Ops and Depth @ Morning Report

Last 24hr Summary

RIG UP KEY 616, NIPPLE DOWN FRAC VALVE AND NIPPLE UP BOP, MOVE IN RACK 2 7/8 WORKSTRING, PICK UP WORK STRING AND TAG AT 6120, PULL ABOVE PERFS

24hr Forecast

DRILL OUT PLUGS

General Remarks

Responsible Daily Contacts

Contact Name	Title	Phone Work
DAVIS STACY	ONSITE SUPERVISOR	432-664-9928

Time Log

Start Time	End Time	Cum Dur (hrs)	Op Code	Activity Code	Time P-T-X	Operation
09:00	09:30	0.50	RPCO...	SFTY	P	PERFORM JSA
09:30	10:30	1.50	RPCO...	RURD	P	RIG UP KEY 616
10:30	11:30	2.50	RPCO...	OTHR	P	FLOW BACK 120 BBLS
11:30	12:30	3.50	RPCO...	NUND	P	NIPPLE DOWN FRAC VALVE AND NIPPLE UP BOP
12:30	13:30	4.50	RPCO...	OTHR	P	MOVE IN RACK 2 7/8 WORK STRING
13:30	16:30	7.50	RPCO...	PULD	P	PICK UP WORK STRING AND TAG AT 6120
16:30	17:00	8.00	RPCO...	TRIP	P	PULL ABOVE PERFS

Well Fluids

Fluid	Note	To (bbl)	From (bbl)	Non-recov (bbl)	Zone

Observation Cards (BST, STOP, etc)

Observ Type	No. Rpts	Comment

Safety Meetings / Operational Checks

Time	Type	Description



Daily Completions and Workovers Report

UNIVERSITY ANDREWS 163

Report # 4

Report Date: 2/14/2011

Actual Days: 1.42

Job Type: COMPLETIONS - INITIAL COMPLETION

Casing Strings

Casing Description	Wellbore	OD (in)	ID (in)	Tension (kips)	Set Depth (ftKB)	Len (ft)
Conductor	Original Hole	16	15.250		80.0	64.00
Surface	Original Hole	8 5/8	8.097		1,503.2	1,487.15
Production1	Original Hole	5 1/2	4.892		7,337.7	7,321.69

Tubing Strings

Tubing Description	Wellbore	OD (in)	ID (in)	Tension (lbf)	Set Depth (ftKB)	Len (ft)

Perforations

String Perforated	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Phasing (°)	Ornt
	UPPER CLEARFORK, Original Hole	5,736.0	5,741.0	1.0	60	
	UPPER CLEARFORK, Original Hole	5,775.0	5,780.0	1.0	60	
	UPPER CLEARFORK, Original Hole	5,802.0	5,807.0	3.0	60	
	UPPER CLEARFORK, Original Hole	5,825.0	5,830.0	3.0	60	
	UPPER CLEARFORK, Original Hole	5,909.0	5,914.0	3.0	60	
	UPPER CLEARFORK, Original Hole	6,082.0	6,087.0	3.0	60	
	UPPER CLEARFORK, Original Hole	6,156.0	6,161.0	3.0	60	
	LOWER CLEARFORK, Original Hole	6,520.0	6,525.0	3.0	60	
	LOWER CLEARFORK, Original Hole	6,534.0	6,539.0	3.0	60	
	LOWER CLEARFORK, Original Hole	6,595.0	6,600.0	3.0	60	
	LOWER CLEARFORK, Original Hole	6,678.0	6,683.0	3.0	60	
	LOWER CLEARFORK, Original Hole	6,703.0	6,708.0	3.0	60	
	WCAB, Original Hole	6,790.0	6,795.0	3.0	60	
	WCAB, Original Hole	6,810.0	6,815.0	3.0	60	
	WCAB, Original Hole	6,876.0	6,881.0	3.0	60	
	WCAB, Original Hole	6,900.0	6,905.0	3.0	60	
	WCAB, Original Hole	7,135.0	7,140.0	3.0	60	
	WCAB, Original Hole	7,149.0	7,154.0	3.0	60	



Daily Completions and Workovers Report

UNIVERSITY ANDREWS 163

Report # 5
Report Date: 2/15/2011
Actual Days: 1.85

Job Type: COMPLETIONS - INITIAL COMPLETION

Well Info					
API / UWI 4200342376	Region/Division PERMIAN	District PERMIAN	Field Name EMBAR	Original Spud Date 1/21/2011	
State/Province TEXAS	County ANDREWS	Latitude (DMS) 32° 8' 59.69" N	Longitude (DMS) 102° 43' 28.852" W	Well Type Development	Well Sub Type Production
Ground Elevation (ft) 3,252.00	Orig KB/RT (ft) 3,268.00	KB-Ground Distance (ft) 16.00	AFE / RFE / Maint.# WA5.CTX.0230	Network/ID # 10235452	Total Job AFE Amount 474,800.00
Rig KEY ENERGY SERVICES, KEY 616	Wellbore Original Hole	Total Depth (ftKB) 7,350.00	Daily Cost Total 17,950.00	Cumulative Cost 338,150.00	

Objective
EAG 110201

Well Bore: Initial Complete and Equip. Notify Champion Chemical Representative when well is to be put on line so he can arrange to have added to the treating schedule.

Well Service: Set & Test Anchors. Pour 5 gal of CI prior to RIH w/rods and pump. Run equipment as proposed. Install rod bop below pumping tee. See attachment for Biocide squeeze that will be done before moving off the completion rig.

Pump: 20-150-RXBC-32-5 {0.005} grooved HVR clutchless. Space pump per Fiberod recommendation. Do not run a diptube. A Cavins desander will be used. Install a 4" long strainer nipple below pump per Goldsmith SOP.

Tubing: RIH w/ purge valve, 10' of 2-3/8" FG joint, 20' Cavins de-sander 2307-G and SN. Set end of tubing at ~7,231' and SN at ~7,200'. Run 20' of 2-7/8" polylined tubing subs above SN, 1 jt of 2-7/8" extreme lined tubing, 2-7/8" polylined tubing up to the TAC @ ~5680', and 2-7/8" polylined tubing to be run to surface with 22 joints of bare J-55 tubing on top. See WellView schematic for more details.

Rods: See attached WellView schematic.

Surface Equip: Prior to rigging up, deliver and install Lufkin C-640-365-144 pumping unit per MOC 14150047 (pumping unit, motor, and counterweights to be taken from producing UA 157). . Set unit running CCW, 9.4 SPM, 144" SL. Balance per XBalance w/ 2 OARO weights. Install SAM POC. Update WV, XSPOC, & SAM at start-up. Install rod rotator.

Daily Ops Summary

Tubing Pressure (psi)	Casing Pressure (psi)	Weather	Temperature (°F)	Road Condition	Lease Condition
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Ops and Depth @ Morning Report

Last 24hr Summary

BREAK CIRCULATION WITH FOAM, DRILL OUT PLUGS AT 6190 AND 6725, CLEAN OUT TO TD AND CIRCULATE

24hr Forecast

FINISH CIRCULATING

General Remarks

Responsible Daily Contacts

Contact Name	Title	Phone Work
DAVIS STACY	ONSITE SUPERVISOR	432-664-9928

Time Log

Start Time	End Time	Cum Dur (hrs)	Op Code	Activity Code	Time P-T-X	Operation
07:00	07:30	0.50	WELL...	SFTY	P	PERFORM JSA
07:30	09:00	2.00	WELL...	CIRC	P	BREAK CIRCULATION WITH FOAM
09:00	10:00	3.00	WELL...	RURD	P	RIG UP SWIVEL
10:00	15:00	8.00	WELL...	DRLG	P	DRILL OUT PLUGS AT 6190 AND 6725 AND CLEAN OUT TO TD
15:00	16:30	9.50	WELL...	CIRC	P	CIRCULATE WELL CLEANPUMPING 289 BBLS WATE AND RETRIEVING 630 BBLS
16:30	17:00	10.00	WELL...	RURD	P	RIG DOWN SWIVEL
17:00	17:30	10.50	WELL...	TRIP	P	PULL ABOVE PERFS

Well Fluids

Fluid	Note	To (bbl)	From (bbl)	Non-recov (bbl)	Zone

Observation Cards (BST, STOP, etc)

Observ Type	No. Rpts	Comment

Safety Meetings / Operational Checks

Time	Type	Description

Casing Strings

Casing Description	Wellbore	OD (in)	ID (in)	Tension (kips)	Set Depth (ftKB)	Len (ft)
Conductor	Original Hole	16	15.250		80.0	64.00



Daily Completions and Workovers Report

UNIVERSITY ANDREWS 163

Report # 5

Report Date: 2/15/2011

Actual Days: 1.85

Job Type: COMPLETIONS - INITIAL COMPLETION

Casing Strings

Casing Description	Wellbore	OD (in)	ID (in)	Tension (kips)	Set Depth (ftKB)	Len (ft)
Surface	Original Hole	8 5/8	8.097		1,503.2	1,487.15
Production1	Original Hole	5 1/2	4.892		7,337.7	7,321.69

Tubing Strings

Tubing Description	Wellbore	OD (in)	ID (in)	Tension (lbf)	Set Depth (ftKB)	Len (ft)

Perforations

String Perforated	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Phasing (°)	Ornt
	UPPER CLEARFORK, Original Hole	5,736.0	5,741.0	1.0	60	
	UPPER CLEARFORK, Original Hole	5,775.0	5,780.0	1.0	60	
	UPPER CLEARFORK, Original Hole	5,802.0	5,807.0	3.0	60	
	UPPER CLEARFORK, Original Hole	5,825.0	5,830.0	3.0	60	
	UPPER CLEARFORK, Original Hole	5,909.0	5,914.0	3.0	60	
	UPPER CLEARFORK, Original Hole	6,082.0	6,087.0	3.0	60	
	UPPER CLEARFORK, Original Hole	6,156.0	6,161.0	3.0	60	
	LOWER CLEARFORK, Original Hole	6,520.0	6,525.0	3.0	60	
	LOWER CLEARFORK, Original Hole	6,534.0	6,539.0	3.0	60	
	LOWER CLEARFORK, Original Hole	6,595.0	6,600.0	3.0	60	
	LOWER CLEARFORK, Original Hole	6,678.0	6,683.0	3.0	60	
	LOWER CLEARFORK, Original Hole	6,703.0	6,708.0	3.0	60	
	WCAB, Original Hole	6,790.0	6,795.0	3.0	60	
	WCAB, Original Hole	6,810.0	6,815.0	3.0	60	
	WCAB, Original Hole	6,876.0	6,881.0	3.0	60	
	WCAB, Original Hole	6,900.0	6,905.0	3.0	60	
	WCAB, Original Hole	7,135.0	7,140.0	3.0	60	
	WCAB, Original Hole	7,149.0	7,154.0	3.0	60	



Daily Completions and Workovers Report

UNIVERSITY ANDREWS 163

Report # 6
Report Date: 2/16/2011
Actual Days: 2.31

Job Type: COMPLETIONS - INITIAL COMPLETION

Well Info					
API / UWI 4200342376	Region/Division PERMIAN	District PERMIAN	Field Name EMBAR	Original Spud Date 1/21/2011	
State/Province TEXAS	County ANDREWS	Latitude (DMS) 32° 8' 59.69" N	Longitude (DMS) 102° 43' 28.852" W	Well Type Development	Well Sub Type Production
Ground Elevation (ft) 3,252.00	Orig KB/RT (ft) 3,268.00	KB-Ground Distance (ft) 16.00	AFE / RFE / Maint.# WA5.CTX.0230	Network/ID # 10235452	Total Job AFE Amount 474,800.00
Rig KEY ENERGY SERVICES, KEY 616	Wellbore Original Hole	Total Depth (ftKB) 7,350.00	Daily Cost Total 59,950.00	Cumulative Cost 398,100.00	

Objective
EAG 110201

Well Bore: Initial Complete and Equip. Notify Champion Chemical Representative when well is to be put on line so he can arrange to have added to the treating schedule.

Well Service: Set & Test Anchors. Pour 5 gal of CI prior to RIH w/rods and pump. Run equipment as proposed. Install rod bop below pumping tee. See attachment for Biocide squeeze that will be done before moving off the completion rig.

Pump: 20-150-RXBC-32-5 {0.005} grooved HVR clutchless. Space pump per Fiberod recommendation. Do not run a diptube. A Cavins desander will be used. Install a 4" long strainer nipple below pump per Goldsmith SOP.

Tubing: RIH w/ purge valve, 10' of 2-3/8" FG joint, 20' Cavins de-sander 2307-G and SN. Set end of tubing at ~7,231' and SN at ~7,200'. Run 20' of 2-7/8" polylined tubing subs above SN, 1 jt of 2-7/8" extreme lined tubing, 2-7/8" polylined tubing up to the TAC @ ~5680', and 2-7/8" polylined tubing to be run to surface with 22 joints of bare J-55 tubing on top. See WellView schematic for more details.

Rods: See attached WellView schematic.

Surface Equip: Prior to rigging up, deliver and install Lufkin C-640-365-144 pumping unit per MOC 14150047 (pumping unit, motor, and counterweights to be taken from producing UA 157). . Set unit running CCW, 9.4 SPM, 144" SL. Balance per XBalance w/ 2 OARO weights. Install SAM POC. Update WV, XSPOC, & SAM at start-up. Install rod rotator.

Daily Ops Summary

Tubing Pressure (psi)	Casing Pressure (psi)	Weather	Temperature (°F)	Road Condition	Lease Condition
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Ops and Depth @ Morning Report

Last 24hr Summary

CIRCULATE WELL WITH FOAM, PUMPED 180 BBLS RETURNED 610 BBLS, TRIP OUT OF HOLE LAYING DOWN WORK STRING, MOVE IN RACK PRODUCTION TUBING

24hr Forecast

RUN PRODUCTION TUBING

General Remarks

Responsible Daily Contacts

Contact Name	Title	Phone Work
DAVIS STACY	ONSITE SUPERVISOR	432-664-9928

Time Log

Start Time	End Time	Cum Dur (hrs)	Op Code	Activity Code	Time P-T-X	Operation
07:00	07:30	0.50	WELL...	SFTY	P	PERFORM JSA
07:30	09:00	2.00	WELL...	CIRC	P	CIRCULATE WELL WITH FOAM
09:00	10:00	3.00	WELL...	TRIP	P	TRIP IN HOLE TO TD AT 7288
10:00	14:00	7.00	WELL...	CIRC	P	CIRCULATE HOLE PUMP ING 180 BBLS RETURNING 610 BBLS TO SURFACE
14:00	17:00	10.00	WELL...	PULD	P	PULL OUT OF HOLE LAYING DOWN 2 7/8 WORK STRING
17:00	18:00	11.00	WELL...	OTHR	P	MOVE IN RACK AND TALLY PRODUCTION PIPE

Well Fluids

Fluid	Note	To (bbl)	From (bbl)	Non-recov (bbl)	Zone

Observation Cards (BST, STOP, etc)

Observ Type	No. Rpts	Comment

Safety Meetings / Operational Checks

Time	Type	Description

Casing Strings

Casing Description	Wellbore	OD (in)	ID (in)	Tension (kips)	Set Depth (ftKB)	Len (ft)
Conductor	Original Hole	16	15.250		80.0	64.00



Daily Completions and Workovers Report

UNIVERSITY ANDREWS 163

Report # 6

Report Date: 2/16/2011

Actual Days: 2.31

Job Type: COMPLETIONS - INITIAL COMPLETION

Casing Strings

Casing Description	Wellbore	OD (in)	ID (in)	Tension (kips)	Set Depth (ftKB)	Len (ft)
Surface	Original Hole	8 5/8	8.097		1,503.2	1,487.15
Production1	Original Hole	5 1/2	4.892		7,337.7	7,321.69

Tubing Strings

Tubing Description	Wellbore	OD (in)	ID (in)	Tension (lbf)	Set Depth (ftKB)	Len (ft)

Perforations

String Perforated	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Phasing (°)	Ornt
	UPPER CLEARFORK, Original Hole	5,736.0	5,741.0	1.0	60	
	UPPER CLEARFORK, Original Hole	5,775.0	5,780.0	1.0	60	
	UPPER CLEARFORK, Original Hole	5,802.0	5,807.0	3.0	60	
	UPPER CLEARFORK, Original Hole	5,825.0	5,830.0	3.0	60	
	UPPER CLEARFORK, Original Hole	5,909.0	5,914.0	3.0	60	
	UPPER CLEARFORK, Original Hole	6,082.0	6,087.0	3.0	60	
	UPPER CLEARFORK, Original Hole	6,156.0	6,161.0	3.0	60	
	LOWER CLEARFORK, Original Hole	6,520.0	6,525.0	3.0	60	
	LOWER CLEARFORK, Original Hole	6,534.0	6,539.0	3.0	60	
	LOWER CLEARFORK, Original Hole	6,595.0	6,600.0	3.0	60	
	LOWER CLEARFORK, Original Hole	6,678.0	6,683.0	3.0	60	
	LOWER CLEARFORK, Original Hole	6,703.0	6,708.0	3.0	60	
	WCAB, Original Hole	6,790.0	6,795.0	3.0	60	
	WCAB, Original Hole	6,810.0	6,815.0	3.0	60	
	WCAB, Original Hole	6,876.0	6,881.0	3.0	60	
	WCAB, Original Hole	6,900.0	6,905.0	3.0	60	
	WCAB, Original Hole	7,135.0	7,140.0	3.0	60	
	WCAB, Original Hole	7,149.0	7,154.0	3.0	60	



Daily Completions and Workovers Report

UNIVERSITY ANDREWS 163

Report # 7
Report Date: 2/17/2011
Actual Days: 2.73

Job Type: COMPLETIONS - INITIAL COMPLETION

Well Info					
API / UWI 4200342376	Region/Division PERMIAN	District PERMIAN	Field Name EMBAR	Original Spud Date 1/21/2011	
State/Province TEXAS	County ANDREWS	Latitude (DMS) 32° 8' 59.69" N	Longitude (DMS) 102° 43' 28.852" W	Well Type Development	Well Sub Type Production
Ground Elevation (ft) 3,252.00	Orig KB/RT (ft) 3,268.00	KB-Ground Distance (ft) 16.00	AFE / RFE / Maint.# WA5.CTX.0230	Network/ID # 10235452	Total Job AFE Amount 474,800.00
Rig KEY ENERGY SERVICES, KEY 616	Wellbore Original Hole	Total Depth (ftKB) 7,350.00	Daily Cost Total 29,250.00	Cumulative Cost 427,350.00	

Objective
EAG 110201

Well Bore: Initial Complete and Equip. Notify Champion Chemical Representative when well is to be put on line so he can arrange to have added to the treating schedule.

Well Service: Set & Test Anchors. Pour 5 gal of CI prior to RIH w/rods and pump. Run equipment as proposed. Install rod bop below pumping tee. See attachment for Biocide squeeze that will be done before moving off the completion rig.

Pump: 20-150-RXBC-32-5 {0.005} grooved HVR clutchless. Space pump per Fiberod recommendation. Do not run a diptube. A Cavins desander will be used. Install a 4" long strainer nipple below pump per Goldsmith SOP.

Tubing: RIH w/ purge valve, 10' of 2-3/8" FG joint, 20' Cavins de-sander 2307-G and SN. Set end of tubing at ~7,231' and SN at ~7,200'. Run 20' of 2-7/8" polylined tubing subs above SN, 1 jt of 2-7/8" extreme lined tubing, 2-7/8" polylined tubing up to the TAC @ ~5680', and 2-7/8" polylined tubing to be run to surface with 22 joints of bare J-55 tubing on top. See WellView schematic for more details.

Rods: See attached WellView schematic.

Surface Equip: Prior to rigging up, deliver and install Lufkin C-640-365-144 pumping unit per MOC 14150047 (pumping unit, motor, and counterweights to be taken from producing UA 157). . Set unit running CCW, 9.4 SPM, 144" SL. Balance per XBalance w/ 2 OARO weights. Install SAM POC. Update WV, XSPOC, & SAM at start-up. Install rod rotator.

Daily Ops Summary

Tubing Pressure (psi)	Casing Pressure (psi)	Weather	Temperature (°F)	Road Condition	Lease Condition
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Ops and Depth @ Morning Report

Last 24hr Summary

PICK UP AND DRIFT PRODUCTION TUBING, NIPPLE DOWN BOP AND NIPPLE UP WELL HEAD, START IN HOLE WITH ROD STRING

24hr Forecast

FINISH RUNNING ROD STRIN

General Remarks

Responsible Daily Contacts

Contact Name	Title	Phone Work
DAVIS STACY	ONSITE SUPERVISOR	432-664-9928

Time Log

Start Time	End Time	Cum Dur (hrs)	Op Code	Activity Code	Time P-T-X	Operation
07:00	07:30	0.50	WELL...	SFTY	P	PERFORM JSA
07:30	08:30	1.50	WELL...	KLWL	P	MOVE IN RIG UP KILL TRK, PUMP 60 BBLS BRINE
08:30	12:30	5.50	WELL...	PULD	P	PICK UP AND DRIFT POLY LINED PRODUCTION TUBING
12:30	14:00	7.00	WELL...	NUND	P	NIPPLE DOWN BOP AND NIPPLE UP WELL HEAD
14:00	15:30	8.50	WELL...	OPNW	P	MOVE IN SPOT AND READY ROD STRING
15:30	16:30	9.50	WELL...	PULD	P	PICK UP PUMP AND K-BARS
16:30	17:00	10.00	WELL...	OTHR	P	SECURE LOCATION

Well Fluids

Fluid	Note	To (bbl)	From (bbl)	Non-recov (bbl)	Zone

Observation Cards (BST, STOP, etc)

Observ Type	No. Rpts	Comment

Safety Meetings / Operational Checks

Time	Type	Description

Casing Strings

Casing Description	Wellbore	OD (in)	ID (in)	Tension (kips)	Set Depth (ftKB)	Len (ft)
Conductor	Original Hole	16	15.250		80.0	64.00



Daily Completions and Workovers Report

UNIVERSITY ANDREWS 163

Report # 7

Report Date: 2/17/2011

Actual Days: 2.73

Job Type: COMPLETIONS - INITIAL COMPLETION

Casing Strings

Casing Description	Wellbore	OD (in)	ID (in)	Tension (kips)	Set Depth (ftKB)	Len (ft)
Surface	Original Hole	8 5/8	8.097		1,503.2	1,487.15
Production1	Original Hole	5 1/2	4.892		7,337.7	7,321.69

Tubing Strings

Tubing Description	Wellbore	OD (in)	ID (in)	Tension (lbf)	Set Depth (ftKB)	Len (ft)
Tubing - Production		2 7/8	1.995		7,223.8	7,207.62

Perforations

String Perforated	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Phasing (°)	Ornt
	UPPER CLEARFORK, Original Hole	5,736.0	5,741.0	1.0	60	
	UPPER CLEARFORK, Original Hole	5,775.0	5,780.0	1.0	60	
	UPPER CLEARFORK, Original Hole	5,802.0	5,807.0	3.0	60	
	UPPER CLEARFORK, Original Hole	5,825.0	5,830.0	3.0	60	
	UPPER CLEARFORK, Original Hole	5,909.0	5,914.0	3.0	60	
	UPPER CLEARFORK, Original Hole	6,082.0	6,087.0	3.0	60	
	UPPER CLEARFORK, Original Hole	6,156.0	6,161.0	3.0	60	
	LOWER CLEARFORK, Original Hole	6,520.0	6,525.0	3.0	60	
	LOWER CLEARFORK, Original Hole	6,534.0	6,539.0	3.0	60	
	LOWER CLEARFORK, Original Hole	6,595.0	6,600.0	3.0	60	
	LOWER CLEARFORK, Original Hole	6,678.0	6,683.0	3.0	60	
	LOWER CLEARFORK, Original Hole	6,703.0	6,708.0	3.0	60	
	WCAB, Original Hole	6,790.0	6,795.0	3.0	60	
	WCAB, Original Hole	6,810.0	6,815.0	3.0	60	
	WCAB, Original Hole	6,876.0	6,881.0	3.0	60	
	WCAB, Original Hole	6,900.0	6,905.0	3.0	60	
	WCAB, Original Hole	7,135.0	7,140.0	3.0	60	
	WCAB, Original Hole	7,149.0	7,154.0	3.0	60	



Daily Completions and Workovers Report

UNIVERSITY ANDREWS 163

Report # 8
Report Date: 2/18/2011
Actual Days: 3.02

Job Type: COMPLETIONS - INITIAL COMPLETION

Well Info					
API / UWI 4200342376	Region/Division PERMIAN	District PERMIAN	Field Name EMBAR	Original Spud Date 1/21/2011	
State/Province TEXAS	County ANDREWS	Latitude (DMS) 32° 8' 59.69" N	Longitude (DMS) 102° 43' 28.852" W	Well Type Development	Well Sub Type Production
Ground Elevation (ft) 3,252.00	Orig KB/RT (ft) 3,268.00	KB-Ground Distance (ft) 16.00	AFE / RFE / Maint.# WA5.CTX.0230	Network/ID # 10235452	Total Job AFE Amount 474,800.00
Rig KEY ENERGY SERVICES, KEY 616	Wellbore Original Hole	Total Depth (ftKB) 7,350.00	Daily Cost Total 6,850.00	Cumulative Cost 434,200.00	

Objective
EAG 110201

Well Bore: Initial Complete and Equip. Notify Champion Chemical Representative when well is to be put on line so he can arrange to have added to the treating schedule.

Well Service: Set & Test Anchors. Pour 5 gal of CI prior to RIH w/rods and pump. Run equipment as proposed. Install rod bop below pumping tee. See attachment for Biocide squeeze that will be done before moving off the completion rig.

Pump: 20-150-RXBC-32-5 {0.005} grooved HVR clutchless. Space pump per Fiberod recommendation. Do not run a diptube. A Cavins desander will be used. Install a 4" long strainer nipple below pump per Goldsmith SOP.

Tubing: RIH w/ purge valve, 10' of 2-3/8" FG joint, 20' Cavins de-sander 2307-G and SN. Set end of tubing at ~7,231' and SN at ~7,200'. Run 20' of 2-7/8" polylined tubing subs above SN, 1 jt of 2-7/8" extreme lined tubing, 2-7/8" polylined tubing up to the TAC @ ~5680', and 2-7/8" polylined tubing to be run to surface with 22 joints of bare J-55 tubing on top. See WellView schematic for more details.

Rods: See attached WellView schematic.

Surface Equip: Prior to rigging up, deliver and install Lufkin C-640-365-144 pumping unit per MOC 14150047 (pumping unit, motor, and counterweights to be taken from producing UA 157). . Set unit running CCW, 9.4 SPM, 144" SL. Balance per XBalance w/ 2 OARO weights. Install SAM POC. Update WV, XSPOC, & SAM at start-up. Install rod rotator.

Daily Ops Summary

Tubing Pressure (psi)	Casing Pressure (psi)	Weather	Temperature (°F)	Road Condition	Lease Condition
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Ops and Depth @ Morning Report

Last 24hr Summary

PICK UP ROD STRING, HANG OFF AND SPACE OUT, LOAD AND TEST, RIG DOWN MOVE OFF

24hr Forecast

TURN OVER TO OPS

General Remarks

Responsible Daily Contacts

Contact Name	Title	Phone Work
DAVIS STACY	ONSITE SUPERVISOR	432-664-9928

Time Log

Start Time	End Time	Cum Dur (hrs)	Op Code	Activity Code	Time P-T-X	Operation
07:00	07:30	0.50	WELL...	SFTY	P	PERFORM JSA
07:30	08:30	1.50	WELL...	OTHR	P	READY FIBERGLASS RODS TO RUN IN HOLE
08:30	11:30	4.50	WELL...	PULD	P	PICK UP ROD STRING
11:30	12:30	5.50	WELL...	HOSO	P	SPACE OUT AND HANG OFF WELL
12:30	13:00	6.00	WELL...	PRTS	P	LOAD AND TEST WELL
13:00	14:00	7.00	WELL...	RURD	P	RIG DOWN MOVE OFF

Well Fluids

Fluid	Note	To (bbl)	From (bbl)	Non-recov (bbl)	Zone
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Observation Cards (BST, STOP, etc)

Observ Type	No. Rpts	Comment
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Safety Meetings / Operational Checks

Time	Type	Description
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Casing Strings

Casing Description	Wellbore	OD (in)	ID (in)	Tension (kips)	Set Depth (ftKB)	Len (ft)
Conductor	Original Hole	16	15.250		80.0	64.00
Surface	Original Hole	8 5/8	8.097		1,503.2	1,487.15



Daily Completions and Workovers Report

UNIVERSITY ANDREWS 163

Report # 8

Report Date: 2/18/2011

Actual Days: 3.02

Job Type: COMPLETIONS - INITIAL COMPLETION

Casing Strings

Casing Description	Wellbore	OD (in)	ID (in)	Tension (kips)	Set Depth (ftKB)	Len (ft)
Production1	Original Hole	5 1/2	4.892		7,337.7	7,321.69

Tubing Strings

Tubing Description	Wellbore	OD (in)	ID (in)	Tension (lbf)	Set Depth (ftKB)	Len (ft)
Tubing - Production		2 7/8	1.995		7,223.8	7,207.62

Perforations

String Perforated	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Phasing (°)	Ornt
	UPPER CLEARFORK, Original Hole	5,736.0	5,741.0	1.0	60	
	UPPER CLEARFORK, Original Hole	5,775.0	5,780.0	1.0	60	
	UPPER CLEARFORK, Original Hole	5,802.0	5,807.0	3.0	60	
	UPPER CLEARFORK, Original Hole	5,825.0	5,830.0	3.0	60	
	UPPER CLEARFORK, Original Hole	5,909.0	5,914.0	3.0	60	
	UPPER CLEARFORK, Original Hole	6,082.0	6,087.0	3.0	60	
	UPPER CLEARFORK, Original Hole	6,156.0	6,161.0	3.0	60	
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	LOWER CLEARFORK, Original Hole	6,678.0	6,683.0	3.0	60	
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	WCAB, Original Hole	6,810.0	6,815.0	3.0	60	
	WCAB, Original Hole	6,876.0	6,881.0	3.0	60	
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	WCAB, Original Hole	7,135.0	7,140.0	3.0	60	
	WCAB, Original Hole	7,149.0	7,154.0	3.0	60	