

Daily Drilling Partner Report

Report Date: 5/11/2024

Rig: NorAm 25

Well Name: ULANDS 48 3-13 B 441H

Report #: 1, DFS:

API/UWI 42383417390000	State/Province TEXAS	County REAGAN	Area WTG	Original KB Elevation (ft) 2,763.00	Ground Elevation (ft) 2,763.00	KB-Ground Distance (ft) 0.00	
Target Formation WFMP B LOWER	Target Depth (ftKB)		Regulatory Spud Date		Rotary Spud Date		Rig Release Date
Start Depth (ftKB) 0.0		Current Depth (ftKB) 0			Progress (ft)		

Last Casing String						
Casing Description Conductor	Csg Size (in) 20	Weight/Length (lb/ft) 106.50	String Grade J-55	Run Date 5/9/2024	Length (ft) 120.00	Csg Depth (ftKB) 120

Current Phase						
Phase Type 1 Mob	Phase Type 2 Rig Up	Model Duration (days) 0.10	Planned Start Depth (ftKB) 120.0	Planned End Depth (ftKB) 120.0	Actual Start Date 5/10/2024 06:00	Actual End Date

Summary		
Weather FAIR	Temperature (°F) 69.0	Hole Condition N/A
Operations at Report Time RIGGING UP	Operations Next Report Period CONTINUE MIRU	

Operations Summary
R/D ON OLD LOCATION LOFTIN HUGHES C 213H & MIRU ON ULANDS 48-3-13 B 441H

Remarks
DAYS FROM SPUD: N/A
*NORAM 25 CREWS : DAYS - FULL / NIGHTS - FULL
*NOINCIDENTS & NO SPILLS
*LAST BOP FULL TEST : N/A
*NEXT BOP FULL TEST: N/A
*START 17 1/2" SURFACE @ N/A CST ON N/A @ 120'
*TD 17 1/2 SURFACE @ N/A CST ON N/A @ 925'
R/D: 100%
MOVED: 90%
SET IN: 40%
R/U: 25%

Daily Time Log						
Start Time	Dur (hr)	End Time	Desc	End Depth (ftKB)	Prob Hrs (hr)	Com
06:00	12.00	18:00	RIGUP & TEARDOWN	120.0		MIRU ON ULANDS PAD SPOT & SET MUD TANKS,RIG CAMP, SHAKER TANK,SUCTION TANK,TRIP TANK, INSTALL ALL 3 SHAKERS, WATER TANK & MUD PUMP 1 & 2, UNLOAD MISCELLANEOUS EQUIPMENT, SPOT & SET MP#3, & DRIVE HOUSE,SET VFD,GEN PACKAGE, DIESEL TANK
18:00	12.00	06:00	RIGUP & TEARDOWN	120.0		OLD LOCATION: L/D DRK, REMOVE DRK FROM FLOOR, SPLIT DRK, REMOVE MUD BOAT, REMOVE CENTER STEEL, SPLITS SUBS,WASH SAME, SUCK DOWN CELLARS & INSTALL COW PINS AROUNDS WELLS NEW LOCATION: LUGGED ALL GEN WIRES/AIR HOSES UP,PULL PUMPS WIRES OUT,SET CMS,PLUGED WIRES UP FROM WATER TANK TO CMS,HOOK UP ELECTRICAL WIRES ON VFD HOUSE,INSTALL SHAKERS SLIDE, INSTALL POSSUM BELLY MANIFOLD,BEGIN SPOTTING BACKYARD SOLIDS CONTROL EQUIPMENT

Diesel and Nat Gas Supply					
Supply Item Des	Type	Received	Consumed	Returned	On Loc
MUD DIESEL		0.0	0.0	0.0	0.0
RIG DIESEL		0.0	0.0	0.0	0.0

Daily Mud Checks						
<depth>ftKB, <dttm>						
Mud Company			Checked By			
Time	Mud Type	Depth (ftKB)	MW (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)
Gel 10 sec (lb/100ft²)	Gel 10 min (lb/100ft²)	Gel 30 min (lb/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH	
Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Electric Stab (V)	Solids (%)	
Max Background Gas		Max Connection Gas		Max Trip Gas		Max Drill Gas
					Max H2S (ppm)	

BOP Pressure Tests		
Type	Last Date	Next Check Date

Well Name: ULANDS 48 3-13 B 441H

Report #: 1, DFS:

Drill Strings										
Drill String Name	BHA #	Drill Bit	Bit Run	Date Pick Up	Date Out of Hole	IADC Bit Dull	TFA (incl Noz) (in²)			
Nozzles (1/32")		Depth In (ftKB)	Depth Out (ftKB)	Depth Drilled (ft)	BHA ROP (ft/hr)	String Wt (1000lbf)	Max Slack-Off Hod	Max Pick-Up Hook	WOB Max (no exc)	Max RPM (No B
Drill String Drilling Parameters										
<depthstart> - <depthend> ftKB										
Start Depth (ftKB)	End Depth (ftKB)	Cum Depth Drilled (ft)	Drilling Time (hr)	Cum Drilling Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)	BH Temperature (°F)			
Weight on Bit (1000lbf)	RPM (rpm)	Stand Pipe Pressure (psi)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Bottom Torque			
Drill String Components										
Type	Item Des			Jts	Len (ft)	ID (in)	OD (in)	Btm Conn Type	Btm Thread	
Hydraulic Calculations										
Bit Hydraulic Power (hp)	Bit Hydraulic Power Per Hole Area (hp/in²)		Bit Jet Velocity (ft/s)		Bit Pressure Drop (psi)		Percent of Pressure Drop at Bit (%)			
Max Casing AV (ft/min)	Max Open Hole AV (ft/min)		Min Casing AV (ft/min)		Min Open Hole AV (ft/min)		ECD End (lb/gal)			
Error										
Wellbore Directional Survey Data										
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Note		
KOP & LP										
Top Depth (ftKB)					Bottom Depth (ftKB)					
Lost Circulation										
Start Date	Top Depth (ftKB)		Bottom Depth (ftKB)		Operation In Progress		Total Lost Volume (bbl)		End Date	
Interval Problems (NPT)										
Problem Type	Problem Subtype		Start Date		Start Depth (ftKB)		End Depth (ftKB)		Estimated Cost (Cost)	
Estimated Lost Time (hr)										
Comment										

Daily Drilling Partner Report

Report Date: 5/12/2024

Rig: NorAm 25

Well Name: ULANDS 48 3-13 B 441H

Report #: 2, DFS:

API/UWI 42383417390000	State/Province TEXAS	County REAGAN	Area WTG	Original KB Elevation (ft) 2,763.00	Ground Elevation (ft) 2,763.00	KB-Ground Distance (ft) 0.00
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Target Formation WFMP B LOWER	Target Depth (ftKB)	Regulatory Spud Date	Rotary Spud Date	Rig Release Date
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Start Depth (ftKB) 0.0	Current Depth (ftKB) 0	Progress (ft)
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Last Casing String

Casing Description Conductor	Csg Size (in) 20	Weight/Length (lb/ft) 106.50	String Grade J-55	Run Date 5/9/2024	Length (ft) 120.00	Csg Depth (ftKB) 120
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Current Phase

Phase Type 1 Mob	Phase Type 2 Rig Up	Model Duration (days) 0.10	Planned Start Depth (ftKB) 120.0	Planned End Depth (ftKB) 120.0	Actual Start Date 5/10/2024 06:00	Actual End Date
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Summary

Weather CLEAR	Temperature (°F) 66.0	Hole Condition N/A
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Operations at Report Time RIGGING UP	Operations Next Report Period CONTINUE R/U, FUNTION TEST ALL EQUIPMENT,ELECTRICIANS TO CHANGE OUT 19 PIN ON SERVICE LOOP, P/U BHA & SPUD IN
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Operations Summary

MIRU ON ULANDS 48-3-13 B 441H

Remarks

DAYS FROM SPUD: N/A
 *NORAM 25 CREWS : DAYS - FULL / NIGHTS - FULL
 *NOINCIDENTS & NO SPILLS
 *LAST BOP FULL TEST : N/A
 *NEXT BOP FULL TEST: N/A
 *START 17 1/2" SURFACE @ N/A CST ON N/A @ 120'
 *TD 17 1/2 SURFACE @ N/A CST ON N/A @ 925'
 MOVED: 100%
 SET IN: 100%
 R/U: 85%

Daily Time Log

Start Time	Dur (hr)	End Time	Desc	End Depth (ftKB)	Prob Hrs (hr)	Com
06:00	12.00	18:00	RIGUP & TEARDOWN	120.0		RIG DOWN CAMP ON OLD LOCATION,RIG UP CAMP ON NEW LOCATION,SET #3 MUD PUMP HOUSE AND RIG UP ELECTRICAL WIRES,FINISHED RIGGING UP ELECTRICAL WIRES ON MUD TANKS,RIG UP SHAKER MANIFOLD,RIG UP FLOWLINE SKID,RIG UP TRANSFER MANIFOLD UNDER FLOWLINE SKID,RIG UP CHOKE 90 ON CHOKE MANIFOLD,RIG UP PPE BOXES,SINK AND EYE WASH STATION ON MUD TANKS,SET BOTH DRILLER SIDE AND OFF DRILLER SIDE SUBS,INSTALLED CENTER STEAL,INSTALLED MUD BOAT,INSTALLED BOTH BEEMS FOR B.O.P IN SUBS,SET B.O.P ON BEEMS IN SUBS,INSTALLED OFF SIDE DOG HOUSE,INSTALLED DRILLER DOG HOUSE,INSTALLED DRAWWORKS AND AND LUG IN ELECTRICAL WIRES,INSTALLED BOTH SECTIONS OF DERRICK,DRESS OUT DERRICK
18:00	12.00	06:00	RIGUP & TEARDOWN	120.0		RIG HYDRAULIC REOMOTE TO HPU,RAISE AND PIN CYLINDERS TO RAISE DERRICK,INSTALLED FRONT WALKING FEET,RAISE DERRICK AND PINNED,BLEED DERRICK CYLENDERS,RAISE DERRICK PIN DERRICK, DERRICK UP @ 18:00 LOWER DERRICK CYLENDERS,HOOK HYD HOSES UP TO SUBS,BLEED SUB CYLENDERS,RAISE SUBS PIN SUBS, SUBS UP @ 20:30 RETRACT SUB CYLENDERS UP INTO SUBS, SET BACK TWO WALKING FEET,PUT H BEAMS IN SUBS,SET DS AND ODS STAIRS,RAISE VDOOR,RUN CATWALK WIRE TO CMS, BOLTED MUDLEG AND VENT LINE ON GAS BUSTER,RAN AND PLUGED ALL WIRES UP ON RIG FLOOR,PLUGED WIRES IN AT END OF VFD FROM HOPPER AREA,SET ACCUMALATOR,PLUGED HPU WIRE IN CMS,RAN HYDRAULIC HOSES FOR HPU,PLUGED ALL FIBER WIRES IN,HOOK UP AIR TO DRAWWORKS,RUN DRAWWORKS,SPOOL UP DRAWWORKS, PUT WRAPS ON HORSES HEAD, TIGHTEN CLAMPS ON HORSES HEAD TO SPEC, SPOOL UP HOIST,INSTALL GERONIMO LINE, UNPIN BLOCKS, PIN BLOCKS TO TOP DRIVE FILLED RIG WATER TANK,MUD TANKS & INNER RING W/ FRESH WATER

Well Name: ULANDS 48 3-13 B 441H

Report #: 2, DFS:

Diesel and Nat Gas Supply									
Supply Item Des	Type	Received	Consumed	Returned	On Loc				
MUD DIESEL		0.0	0.0	0.0	0.0				
RIG DIESEL		7,204.0	400.0	0.0	9,025.0				

Daily Mud Checks									
<depth>ftKB, <dtm>									
Mud Company					Checked By				
Time	Mud Type	Depth (ftKB)	MW (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)			
Gel 10 sec (lb/100ft²)	Gel 10 min (lb/100ft²)	Gel 30 min (lb/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH				
Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Electric Stab (V)	Solids (%)				
Max Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas	Max H2S (ppm)					

BOP Pressure Tests									
Type	Last Date	Next Check Date							

Drill Strings									
Drill String Name	BHA #	Drill Bit	Bit Run	Date Pick Up	Date Out of Hole	IADC Bit Dull	TFA (incl Noz) (in³)		
Nozzles (1/32")	Depth In (ftKB)	Depth Out (ftKB)	Depth Drilled (ft)	BHA ROP (ft/hr)	String Wt (1000lb)	Max Slack-Off Hds	Max Pick-Up Hook	WOB Max (no exc)	Max RPM (No B)

Drill String Drilling Parameters									
<depthstart> - <depthend> ftKB									
Start Depth (ftKB)	End Depth (ftKB)	Cum Depth Drilled (ft)	Drilling Time (hr)	Cum Drilling Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)	BH Temperature (°F)		
Weight on Bit (1000lbf)	RPM (rpm)	Stand Pipe Pressure (psi)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Bottom Torque		

Drill String Components									
Type	Item Des	Jts	Len (ft)	ID (in)	OD (in)	Btm Conn Type	Btm Thread		

Hydraulic Calculations									
Bit Hydraulic Power (hp)	Bit Hydraulic Power Per Hole Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Percent of Pressure Drop at Bit (%)					
Max Casing AV (ft/min)	Max Open Hole AV (ft/min)	Min Casing AV (ft/min)	Min Open Hole AV (ft/min)	ECD End (lb/gal)					
Error									

Wellbore Directional Survey Data									
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Note	

KOP & LP									
Top Depth (ftKB)	Bottom Depth (ftKB)								

Lost Circulation									
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Operation In Progress	Total Lost Volume (bbl)	End Date				

Interval Problems (NPT)									
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Estimated Cost (Cost)	Estimated Lost Time (hr)			
Comment									

Daily Drilling Partner Report

Report Date: 5/13/2024

Rig: NorAm 25

Well Name: ULANDS 48 3-13 B 441H

Report #: 3, DFS: 0.2

API/UWI 42383417390000	State/Province TEXAS	County REAGAN	Area WTG	Original KB Elevation (ft) 2,763.00	Ground Elevation (ft) 2,763.00	KB-Ground Distance (ft) 0.00
Target Formation WFMP B LOWER	Target Depth (ftKB)	Regulatory Spud Date 5/13/2024	Rotary Spud Date 5/13/2024	Rig Release Date		
Start Depth (ftKB) 120.0	Current Depth (ftKB) 679	Progress (ft) 559				
Last Casing String						
Casing Description Surface Casing	Csg Size (in) 13 3/8	Weight/Length (lb/ft) 54.50	String Grade J-55	Run Date 5/13/2024	Length (ft) 912.37	Csg Depth (ftKB) 908
Current Phase						
Phase Type 1 Surface	Phase Type 2 Drill	Model Duration (days) 0.60	Planned Start Depth (ftKB) 120.0	Planned End Depth (ftKB) 925.0	Actual Start Date 5/13/2024 01:45	Actual End Date
Summary						
Weather CLEAR		Temperature (°F) 63.0			Hole Condition GOOD	
Operations at Report Time DRILLING @ 679'				Operations Next Report Period DRILL TO TD DEPTH 928',CIRC, POOH, RUN SURFACE CSG, CIRC,REMOVE L/D LANDING JT, RELEASE RIG TO UL WTG 3-233 B 442H		
Operations Summary CONTINUE RIGGING UP, TROUBLE SHOOT 19 PIN PLUG ON TOP DRIVE,PRESSURE TEST SURFACE LINES, ACCEPT RIG @ 01:45 5-13-2024, P/U DIR BHA,SPUD IN DRILL F. 120'-679' (CONT DRILL @ 200FPH F. 500' DUE TO MP#2 BURNT DRIVE)						
Remarks DAYS FROM SPUD: .2 *NORAM 25 CREWS : DAYS - FULL / NIGHTS - FULL *NOINCIDENTS & NO SPILLS *LAST BOP FULL TEST : N/A *NEXT BOP FULL TEST: N/A *START 17 1/2" SURFACE @ 01:45 CST ON 5-13-2024 @ 120' *TD 17 1/2 SURFACE @ N/A CST ON N/A @ 925' **NOTIFIED NIECY OPERATOR #130 W/ THE TRRC OF INTENT TO SPUD, RUN & CEMENT 13 3/8" SURFACE CASING @ 20:45 CST ON 5/12/24**						
Daily Time Log						
Start Time	Dur (hr)	End Time	Desc	End Depth (ftKB)	Prob Hrs (hr)	Com
06:00	14.50	20:30	RIGUP & TEARDOWN	120.0		RIG UP VENT LINE,DUCK PONDS, PLUMB IN GAS BUSTER LINES TO FLOWLINE AND SHAKERS,KILL LINE, HIGH PSI VIBRATOR HOSE FROM SUBS TO STANDPIPE, BLEED OFF LINE, #3 MUD PUMP SUCTION LINE, FUNCTION TEST SHAKERS, AGITATORS,MIX PUMPS, INSTALL PVC FOR DUMP LINE, SET OUT LINE BACKERS, RUN CAMP POWER WIRE TO VFD HOUSE, FINISH RIGGING UP RIG FLOOR, TROUBLESHOOT TOP DRIVE ELECTRICAL 19 PIN PLUG, CHANGE OUT 19 PIN TWICE, FIRST ONE WAS BAD, LAY OUT BHA, RIG UP GERONIMO LINE, CHANGE STAB GUIDE ON TOP DRIVE FROM 4 1/2 TO 5", CHANGE DIE BLOCK IN GRAB BOX, RUN HYDRAULIC LINES TO WALKING FEET ,RIG UP HIGH PSI MUD LINES FROM PUMPS TO SUB , INSTALL SOCK ON SEWRVICE LOOP, INSTALL 5" ELEVATORS, CHANGE OUT SAVER SUB, INSTALL FEATHER RING, LAY OUT & STRAP BHA
20:30	2.75	23:15	RIGUP & TEARDOWN	120.0		PRESSURE TEST MUD LINES 3000PSI 5 MIN'S, PRESSURE DROPPING QUICK, FOUND VIBRATOR HOSE LEAKING BY SUB, C/O O-RING & RE-TEST MUD LINES, PRESSURE STILL FALLING FAST, MP#1 2" VALVE LEAKING THROUGH POP OFF LINE, ISOLATED MUD PUMP & STILL LEAKING BY 4" VALVE ON MP, C/O 4" & 2" PRESSURE BACK UP, THEN MP#3 2" STARTED LEAKING, C/O 2" W/ SPARE 2" VALVE THAT VALVE WAS NOT HOLDING AT ALL, FOUND NEW VALVE & CHANGED OUT SAME, RETEST LINES (TEST OK NO LEAKS)
23:15	2.50	01:45	DIRECTIONAL WORK	120.0		ACCEPT RIG @ 01:45 HRS, PICK UP DIRECTIONAL BHA SCRIBE SAME
01:45	2.75	04:30	DRILL ACTUAL	500.0		SPUD IN ROT DRILL & SURVEY (F/120 T/500')=380' @ 138 FPH AVERAGE ROP. WOB-25-40, ROT-40-60, SPP- 1400, DIFF-630, GPM-350-600, TQ-15-22K, 100% RETURNS NO LOSSES
04:30	1.50	06:00	COND MUD & CIRC	771.0		CONTROL DRILL AT 200FPH (F/500 T/679')=179' @ 119 FPH AVERAGE ROP. WOB-10, ROT-60, SPP- 1200, DIFF-350, GPM-600, TQ-9-11K, 100% RETURNS NO LOSSES NOTE: MP#2 DRIVE BURNED OUT UNABLE TO RUN PUMP, ELECTRICIAN IN ROUTE W/ PART

Diesel and Nat Gas Supply									
Supply Item Des	Type	Received	Consumed	Returned	On Loc				
MUD DIESEL		0.0	0.0	0.0	0.0				
RIG DIESEL		0.0	747.0	0.0	8,278.0				

Daily Mud Checks									
120.0ftKB, 5/13/2024 01:45									
Mud Company M-I SWACO					Checked By Mud Engineer				
Time 01:45	Mud Type WBM-Water	Depth (ftKB) 120.0	MW (lb/gal) 8.5	Funnel Viscosity (s/qt) 28	PV Calc (cP) 1.0	YP Calc (lb/100ft) 1.000			
Gel 10 sec (lb/100ft²) 1.000	Gel 10 min (lb/100ft²) 1.000	Gel 30 min (lb/100ft²) 1.000	Filtrate (mL/30min) 40.0	Filter Cake (1/32") 0	pH				
Percent Oil (%) 0.0	Percent Water (%) 100.0	Chlorides (mg/L) 800	Calcium (mg/L)	Electric Stab (V)	Solids (%) 2.0				
Max Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas	Max H2S (ppm)					

BOP Pressure Tests		
Type	Last Date	Next Check Date

Drill Strings									
Drill String Name SURFACE BHA	BHA # 1	Drill Bit 17 1/2in, GT65, 13011474	Bit Run 1	Date Pick Up 5/12/2024	Date Out of Hole	IADC Bit Dull -----	TFA (incl Noz) (in³) 0.80		
Nozzles (1/32")	Depth In (ftKB) 120.0	Depth Out (ftKB) 679.0	Depth Drilled (ft) 559.00	BHA ROP (ft/hr) 106.5	String Wt (1000lb/ft) 61	Max Slack-Off Hook 95	Max Pick-Up Hook 95	WOB Max (no exc) 45	Max RPM (No B) 156

Drill String Drilling Parameters							
120.0 - 679.0 ftKB							
Start Depth (ftKB) 120.0	End Depth (ftKB) 679.0	Cum Depth Drilled (ft) 559.00	Drilling Time (hr) 5.25	Cum Drilling Time (hr) 5.25	Interval ROP (ft/hr) 106.5	Flow Rate (gpm) 850	BH Temperature (°F)
Weight on Bit (1000lbf) 45	RPM (rpm) 60	Stand Pipe Pressure (psi) 1,450.0	Drill Str Wt (1000lbf) 95	PU Str Wt (1000lbf) 95	SO Str Wt (1000lbf) 95	Drilling Torque 16,000.0	Off Bottom Torque 2,000.0

Drill String Components							
Type	Item Des	Jts	Len (ft)	ID (in)	OD (in)	Btm Conn Type	Btm Thread
HW Drill Pipe	9 Joints 5" HWDP	21	639.50	2.75	4 1/2		
Other	X-O 4 1/2 IF (B) x 4 1/2 XH(P)	1	3.52	2.88	6 1/8		
Drill Collar	6 Joints 6 1/2" DC's	6	184.11	2.88	6 1/2		
Other	X-O 4 1/2 XH(B) x 6 5/8 Reg(P)	1	3.30	2.88	6 7/16		
Other	8" Shock Sub	1	14.09	2.88	8		
Drill Collar	8" NMDC	1	31.05	3.25	7 15/16		
MWD	8" Tool Carrier / Gap Sub	1	17.74	4.75	8		
	8" NMPC		14.74	3.31	8 1/8		
Other	17" Stab	1	6.44	2.88	8 1/8		
Drill String Component Mud Motor	900 Atlas w/ 1.83 ABH, 7/8 lobe, 7.0stg., 16rpg	1	38.89		8 1/8		

Hydraulic Calculations				
Bit Hydraulic Power (hp)	Bit Hydraulic Power Per Hole Area (hp/in²)	Bit Jet Velocity (ft/s) 340.9	Bit Pressure Drop (psi) 0.0	Percent of Pressure Drop at Bit (%) 0
Max Casing AV (ft/min) 61.1	Max Open Hole AV (ft/min) 86.7	Min Casing AV (ft/min) 61.1	Min Open Hole AV (ft/min) 72.8	ECD End (lb/gal)

Error
Unable to calculate annular pressure drop because pressure drop data is missing from AV calc

Wellbore Directional Survey Data								
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Note
133.00	0.71	256.12	133.00	0.82	-0.20	-0.80	0.53	

KOP & LP	
Top Depth (ftKB)	Bottom Depth (ftKB)

Lost Circulation					
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Operation In Progress	Total Lost Volume (bbl)	End Date

Interval Problems (NPT)						
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Estimated Cost (Cost)	Estimated Lost Time (hr)

Comment

Daily Drilling Partner Report

Report Date: 5/14/2024

Rig: NorAm 25

Well Name: ULANDS 48 3-13 B 441H

Report #: 4, DFS: 0.5

API/UWI 42383417390000	State/Province TEXAS	County REAGAN	Area WTG	Original KB Elevation (ft) 2,788.00	Ground Elevation (ft) 2,763.00	KB-Ground Distance (ft) 25.00
Target Formation WFMP B LOWER	Target Depth (ftKB)		Regulatory Spud Date 5/13/2024		Rotary Spud Date 5/13/2024	Rig Release Date
Start Depth (ftKB) 679.0		Current Depth (ftKB) 915			Progress (ft) 236	

Last Casing String

Casing Description Surface Casing	Csg Size (in) 13 3/8	Weight/Length (lb/ft) 54.50	String Grade J-55	Run Date 5/13/2024	Length (ft) 912.37	Csg Depth (ftKB) 908
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Current Phase

Phase Type 1 Surface	Phase Type 2 Casing and Cement	Model Duration (days) 0.17	Planned Start Depth (ftKB) 925.0	Planned End Depth (ftKB) 925.0	Actual Start Date 5/13/2024 10:45	Actual End Date 5/13/2024 14:00
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Summary

Weather CLEAR	Temperature (°F) 67.0	Hole Condition GOOD
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Operations at Report Time *** WELL PAUSED ON 5/13/2024 AT 14:00 ***	Operations Next Report Period RESUME WELL / NIPPLE UP AND TEST BOP / PICK UP 12 1/4" INTERMEDIATE BHA / TIH / DRILL OUT FLOAT EQUIPMENT / DRILL 12 1/4"
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Operations Summary SPUD/ DRILL TO TD DEPTH 915' CIRC, POOH, RUN SURFACE CSDG TO 908' CIRC, L/D LANDING JT, PERFORM OFF LINE CEMENT JOB, *** WELL PAUSED ON 5/13/2024 AT 14:00 ***

Remarks DAYS FROM SPUD: .5 *NORAM 25 CREWS : DAYS - FULL / NIGHTS - FULL *NOINCIDENTS & NO SPILLS *LAST BOP FULL TEST : N/A *NEXT BOP FULL TEST: N/A *START 17 1/2" SURFACE @ 01:45 CST ON 5-13-2024 @ 120' *TD 17 1/2 SURFACE @ 07:30 CST ON 5-13-2024 @ 915' **CONTACTED TRRC TO NOTIFY OF SPUD & SURF CMT JOBS FOR ALL 4 WELLS SPOKE TO VICTOR GARCIA @ 17:00HRS CST ON 5-13-2024**
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Daily Time Log

Start Time	Dur (hr)	End Time	Desc	End Depth (ftKB)	Prob Hrs (hr)	Com
06:00	1.50	07:30	DRILL ACTUAL	915.0		ROT DRILL & SURVEY (F/679 T/915' TD DEPTH)=236' @ 157 FPH AVERAGE ROP. WOB-25-40, ROT-40-60, SPP- 1400, DIFF-630, GPM-350-600, TQ-15-22K, 100% RETURNS NO LOSSES
07:30	0.50	08:00	COND MUD & CIRC	915.0		CIRC BTMS UP & HOLE CLEAN PUMP 40BBLs HV SWEEP
08:00	1.75	09:45	TRIPS	915.0		POOH FROM 915'-DIR TOOLS, LAYDOWN SHK SUB & XO
09:45	1.00	10:45	RUN CASING & CEMENT	915.0		S/M W/ CSG CREW DESERT CSG & R/U SAME
10:45	2.50	13:15	RUN CASING & CEMENT	915.0		M/U 1 JOINT SHOE TRACK & CIRC THROUGH SAME & RUN 13 3/8 CSG, T/908' & LAND MANDREL W/ CACTUS REP. (FULL RETURNS) FILLING CSG EVERY 20 JOINTS. (WASH DOWN LANDING JOINT 864'-908' & LAND SAME W/ CACTUS REP)
13:15	0.75	14:00	COND MUD & CIRC	915.0		CIRC 1.5X CSG CAP & RIG DOWN CASING CREW, BACK OUT AND LAY DOWN LANDING JOINT *** WELL PAUSED ON 5/13/2024 AT 14:00 *** TRANSFERRED 7,778 GALS RIG FUEL TO UL WTG 3-233 B 442H
14:00	3.00	17:00	RUN CASING & CEMENT	915.0		RIG UP OFFLINE TOOL AND HALLIBURTON CEMENT EQUIPMENT. FLUSH AND TEST LINES. PUMP 351 BBL. 14.8 PPG. 1490 SKS. DROP PLUG AND DISPLACE WITH 133 BBLs. BUMP PLUG 500 PSI. OVER, BLEED OFF 3 BBL. FLOATS HELD. FULL RETURNS GOT 204 BBLs (855 SXS)CEMENT BACK TO SURFACE
17:00	0.50	17:30	RUN CASING & CEMENT	915.0		TEST CASING TO 1,500 PSI AND HOLD FOR 30 MINUTES
17:30	1.00	18:30	RUN CASING & CEMENT	915.0		RIG DOWN CEMENTERS, INSTALL WELL HEAD AND TEST SAME 5000PSI INSTALL T/A CAP

Diesel and Nat Gas Supply

Supply Item Des	Type	Received	Consumed	Returned	On Loc
MUD DIESEL		0.0	0.0	0.0	0.0
RIG DIESEL		0.0	500.0	0.0	7,778.0

Daily Mud Checks										
915.0ftKB, 5/13/2024 14:00										
Mud Company M-I SWACO					Checked By Mud Engineer					
Time 14:00	Mud Type WBM-Water	Depth (ftKB) 915.0	MW (lb/gal) 9.5	Funnel Viscosity (s/qt) 29	PV Calc (cP) 3.0	YP Calc (lb/100ft) 3.000				
Gel 10 sec (lb/100ft²) 4.000	Gel 10 min (lb/100ft²) 7.000	Gel 30 min (lb/100ft²) 8.000	Filtrate (mL/30min)	Filter Cake (1/32")	pH 7.7					
Percent Oil (%) 0.0	Percent Water (%) 90.0	Chlorides (mg/L) 2,500	Calcium (mg/L)	Electric Stab (V)	Solids (%) 10.0					
Max Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas	Max H2S (ppm)						
BOP Pressure Tests										
Type	Last Date			Next Check Date						
Drill Strings										
Drill String Name SURFACE BHA	BHA # 1	Drill Bit 17 1/2in, GT65, 13011474	Bit Run 1	Date Pick Up 5/12/2024	Date Out of Hole 5/13/2024	IADC Bit Dull 1-1-NO-G-0-0-NO-TD	TFA (incl Noz) (in²) 0.80			
Nozzles (1/32")	Depth In (ftKB) 120.0	Depth Out (ftKB) 915.0	Depth Drilled (ft) 795.00	BHA ROP (ft/hr) 117.8	String Wt (1000lb) 61	Max Slack-Off Hod 95	Max Pick-Up Hook 95	WOB Max (no exc) 45	Max RPM (No B) 156	
Drill String Drilling Parameters										
679.0 - 915.0 ftKB										
Start Depth (ftKB) 679.0	End Depth (ftKB) 915.0	Cum Depth Drilled (ft) 795.00	Drilling Time (hr) 1.50	Cum Drilling Time (hr) 6.75	Interval ROP (ft/hr) 157.3	Flow Rate (gpm) 850	BH Temperature (°F)			
Weight on Bit (1000lbf) 45	RPM (rpm) 60	Stand Pipe Pressure (psi) 1,450.0	Drill Str Wt (1000lbf) 95	PU Str Wt (1000lbf) 95	SO Str Wt (1000lbf) 95	Drilling Torque 16,000.0	Off Bottom Torque 2,000.0			
Drill String Components										
Type	Item Des	Jts	Len (ft)	ID (in)	OD (in)	Btm Conn Type	Btm Thread			
HW Drill Pipe	9 Joints 5" HWDP	21	639.50	2.75	4 1/2					
Other	X-O 4 1/2 IF (B) x 4 1/2 XH(P)	1	3.52	2.88	6 1/8					
Drill Collar	6 Joints 6 1/2" DC's	6	184.11	2.88	6 1/2					
Other	X-O 4 1/2 XH(B) x 6 5/8 Reg(P)	1	3.30	2.88	6 7/16					
Other	8" Shock Sub	1	14.09	2.88	8					
Drill Collar	8" NMDC	1	31.05	3.25	7 15/16					
MWD	8" Tool Carrier / Gap Sub	1	17.74	4.75	8					
	8" NMPC		14.74	3.31	8 1/8					
Other	17" Stab	1	6.44	2.88	8 1/8					
Drill String Component Mud Motor	900 Atlas w/ 1.83 ABH,7/8 lobe, 7.0stg,.16rpg	1	38.89	0.50	8 1/8					
Hydraulic Calculations										
Bit Hydraulic Power (hp) 443.6	Bit Hydraulic Power Per Hole Area (hp/in²) 1.8	Bit Jet Velocity (ft/s) 340.9	Bit Pressure Drop (psi) 894.7	Percent of Pressure Drop at Bit (%) 62						
Max Casing AV (ft/min) 223.7	Max Open Hole AV (ft/min) 86.7	Min Casing AV (ft/min) 150.0	Min Open Hole AV (ft/min) 86.7	ECD End (lb/gal) 9.50						
Error Unable to calculate annular pressure drop because pressure drop data is missing from AV calc										
Wellbore Directional Survey Data										
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Note		
689.00	1.36	286.35	688.93	8.75	4.75	-7.44	0.31			
783.00	1.43	283.03	782.90	11.00	5.33	-9.65	0.11			
833.00	1.36	280.66	832.88	12.19	5.58	-10.84	0.18			
915.00	1.36	280.66	914.86	14.07	5.94	-12.76	0.00			
KOP & LP										
Top Depth (ftKB)					Bottom Depth (ftKB)					
Lost Circulation										
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Operation In Progress	Total Lost Volume (bbl)	End Date					
Interval Problems (NPT)										
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Estimated Cost (Cost)	Estimated Lost Time (hr)				
Comment										

Daily Drilling Partner Report

Report Date: 5/16/2024

Rig: NorAm 25

Well Name: ULANDS 48 3-13 B 441H

Report #: 5, DFS: 1.4

API/UWI 42383417390000	State/Province TEXAS	County REAGAN	Area WTG	Original KB Elevation (ft) 2,788.00	Ground Elevation (ft) 2,763.00	KB-Ground Distance (ft) 25.00
Target Formation WFMP B LOWER	Target Depth (ftKB) 18,150	Regulatory Spud Date 5/13/2024	Rotary Spud Date 5/13/2024	Rig Release Date		
Start Depth (ftKB) 915.0	Current Depth (ftKB) 1,318	Progress (ft) 403				

Last Casing String						
Casing Description Surface Casing	Csg Size (in) 13 3/8	Weight/Length (lb/ft) 54.50	String Grade J-55	Run Date 5/13/2024	Length (ft) 912.37	Csg Depth (ftKB) 908

Current Phase						
Phase Type 1 Surface	Phase Type 2 Casing and Cement	Model Duration (days) 0.17	Planned Start Depth (ftKB) 915.0	Planned End Depth (ftKB) 915.0	Actual Start Date 5/13/2024 10:45	Actual End Date 5/13/2024 14:00

Summary						
Weather Cloudy	Temperature (°F) 71.0			Hole Condition Good		

Operations at Report Time DRILLING 12 1/4" INTERMEDIATE AT 1,318'.	Operations Next Report Period DRILL 12 1/4" INTERMEDIATE TO 6,600'
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Operations Summary
WALK RIG 93' SOUTH TO THE ULANDS 48 3-13 B 441H, NIPPLE UP BOPE, TEST BOPE, PICK-UP 12 1/4" INTERMEDIATE BHA, TIH TO 862', DRILL OUT SHOE TRACK, DRILL 12 1/4" INTERMEDIATE T/ 1,318'.

Remarks
NORAM 25 CREWS : DAYS - FULL / NIGHTS - FULL
DAYS FROM SPUD: 1.4
SPUD DATE: 5/13/24 AT 01:45
HOLE DEPTH : 1,318'
24 HR FOOTAGE : 403'
ROTATE FOOTAGE : 403'
SLIDE FOOTAGE : 0'
SLIDE PERCENT 0.0%
BOP TEST : EVERY 21 DAYS
LAST BOP TEST : 5/16/24 AT 01:00.
RESUME WELL ON 5/15/2024 AT 08:00.
START 12 1/4" INTERMEDIATE ON 5/16/24 AT 04:15.
NO INCIDENTS ACCIDENTS OR SPILLS.

Daily Time Log

Start Time	Dur (hr)	End Time	Desc	End Depth (ftKB)	Prob Hrs (hr)	Com
08:00	2.25	10:15	RIGUP & TEARDOWN	915.0		WALK RIG 93' SOUTH TO THE ULANDS 48 3-13 B 441H.
10:15	9.25	19:30	NU/ND B.O.P	915.0		NIPPLE UP BOPE, RIG-UP HYDRAULIC UNIT FOR BOP WINCHES TO PICK-UP BOP, CONNECT WINCHES TO BOP, PICK-UP, BOLT ON CACTUS QDC, LAND BOP, CONNECT TURN BUCKLES, DISCONNECT WINCHES FROM BOP, RIG DOWN HYDRAULIC UNIT FOR BOP WINCHES, CONNECT CHOKE LINE TO HCR, CONNECT KILL LINE, SET ACCUMULATOR IN PLACE, CONNECT ACCUMULATOR LINES TO BOP, NIPPLE UP ROTATING HEAD/ORBIT VALVE ASSEMBLY, NIPPLE UP FLOW-LINE TO ORBIT VALVE, UNLOAD NEW CAT-WALK AND SET IN PLACE.
19:30	5.50	01:00	TEST B.O.P	915.0		M/U TEST JOINT,FILL STACK,TEST BOTTOM RAMS,TOP RAMS,BLIND RAMS,4" MANUAL, 4" HCR, BOTH INSIDE & OUTSIDE KILL LINE,CHECK VALVE,CHOKE MANIFOLD,FLOOR VALVES TIW & INSIDE GREY, UPPER KELLY VALVE, 250 PSI LOW 5,000 PSI HIGH, ANNULAR 250 PSI LOW 3,500 PSI HIGH,MUD LINES, 4" VALVES ON MUD PUMPS, 4" VALVE ON STAND PIPE 250 PSI LOW 5,000 PSI HIGH. ***CHANGE OUT INSIDE 4" MANUAL VALVE ON LEFT SIDE OF SUPER CHOKE DUE TO FAILED TEST. RE-BUILD RIGHT SUPER CHOKE DUE TO FAILED TEST. RE-TEST, BOTH PASSED TEST.***
01:00	0.25	01:15	WEAR BUSHING / ROTATING HEAD	915.0		PULL TEST PLUG, INSTALL WEAR BUSHING.
01:15	1.00	02:15	DIRECTIONAL WORK	915.0		LATCH-UP 12 1/4" INTERMEDIATE BHA. SCRIBE AND INSTALL MWD. M/U 12 1/4" ULTERRA WAV616 PDC BIT SN# 71447.
02:15	1.50	03:45	TRIPS	915.0		TRIP IN 2 STAND 6 1/2" DRILL COLLARS FROM DERRICK, PICK-UP 9 DRILL COLLARS FROM CAT-WALK, TRIP IN HOLE 3 STANDS 5" HWDP FROM DERRICK.
03:45	0.50	04:15	REAMING	915.0		DRILL OUT 13-3/8" SHOE TRACK F/ 862' T/ 915' - WOB 12 - RPM 30 - GPM 550 - SPP 1,171 - DIFF 238 - TQ 8K - OBP 930. WORKED BACK THROUGH SHOE TRACK AND FLOAT COLLAR WITH NO ISSUES.

Daily Time Log						
Start Time	Dur (hr)	End Time	Desc	End Depth (ftKB)	Prob Hrs (hr)	Com
04:15	1.75	06:00	DRILL ACTUAL	1,318.0		DRILL 12 1/4" INTERMEDIATE F/ 915' T/ 1,318' - WOB 35 - RPM 60 - GPM 750 - SPP 2,235 - DIFF 640 - TQ 15K - OBP 1,660. ***START 12 1/4" INTERMEDIATE @ 915' MD @ 04:15 HRS CST ON 5/16/24.***

Diesel and Nat Gas Supply						
Supply Item Des	Type	Received	Consumed	Returned	On Loc	
MUD DIESEL		3,798.0	0.0	0.0	3,798.0	
RIG DIESEL		15,647.0	238.0	0.0	15,409.0	

Daily Mud Checks						
1,080.0ftKB, 5/16/2024 05:00						
Mud Company MI SWACO			Checked By DERRICK MAN			
Time 05:00	Mud Type WBM - Brine	Depth (ftKB) 1,080.0	MW (lb/gal) 10	Funnel Viscosity (s/qt) 28	PV Calc (cP)	YP Calc (lb/100ft²)
Gel 10 sec (lb/100ft²)	Gel 10 min (lb/100ft²)	Gel 30 min (lb/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH 7.0	
Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Electric Stab (V)	Solids (%)	
Max Background Gas 0.00	Max Connection Gas 0.00	Max Trip Gas 0.00	Max Drill Gas 0.00	Max H2S (ppm) 0		

BOP Pressure Tests		
Type BOP Pressure Test	Last Date 5/16/2024	Next Check Date 6/5/2024

Drill Strings									
Drill String Name 1ST INTERMEDIATE BHA	BHA # 2	Drill Bit 12 1/4in, WAV616, 71447	Bit Run 2	Date Pick Up 5/16/2024	Date Out of Hole	IADC Bit Dull -----	TFA (incl Noz) (in ²) 0.84		
Nozzles (1/32") 11/11/11/11/11/11/11/11/11	Depth In (ftKB) 915.0	Depth Out (ftKB) 1,318.0	Depth Drilled (ft) 403.00	BHA ROP (ft/hr) 230.3	String Wt (1000lbf) 90	Max Slack-Off Hod 110	Max Pick-Up Hook 115	WOB Max (no exc) 28	Max RPM (No B) 203

Drill String Drilling Parameters							
915.0 - 1,318.0 ftKB							
Start Depth (ftKB) 915.0	End Depth (ftKB) 1,318.0	Cum Depth Drilled (ft) 403.00	Drilling Time (hr) 1.75	Cum Drilling Time (hr) 1.75	Interval ROP (ft/hr) 230.3	Flow Rate (gpm) 750	BH Temperature (°F)
Weight on Bit (1000lbf) 28	RPM (rpm) 60	Stand Pipe Pressure (psi) 2,235.0	Drill Str Wt (1000lbf) 87	PU Str Wt (1000lbf) 115	SO Str Wt (1000lbf) 110	Drilling Torque 15,000.0	Off Bottom Torque 9,000.0

Drill String Components								
Type	Item Des	Jts	Len (ft)	ID (in)	OD (in)	Btm Conn Type	Btm Thread	
HW Drill Pipe	10 Stands HWDP	24	740.56	3.00	5	Box	IF	
Other	X-O	1	3.52	2.94	6 1/16	Box	4 1/2 XH	
Drill Collar	5 Stands (15 Joints) 6 1/2" DCs	15	455.77	3.00	6 1/2	Box	4 1/2 XH	
Other	X-O	1	3.30	2.88	6 3/4	Box	6 5/8 Reg	
Drill Collar	8 NMDC	1	31.05	3.25	8	Box	6 5/8 Reg	
MWD	8 Tool Carrier / Gap Sub	1	17.74	2.88	8 1/16	Box	6 5/8 Reg	
Drill Collar	8 NMPC	1	14.74	3.31	8	Box	6 5/8 Reg	
Other	8" Shock Sub	1	14.09	2.88	7 15/16	Box	6 5/8 Reg	
Drill String Component Mud Motor	900 ATLAS 7/8 - 7.0 - 1.83" ADJ W/ 11.75" BHS 0.18 RPG.	1	35.98	2.00	9	Box	6 5/8 Reg	

Hydraulic Calculations				
Bit Hydraulic Power (hp) 328.9	Bit Hydraulic Power Per Hole Area (hp/in ²) 2.8	Bit Jet Velocity (ft/s) 288.1	Bit Pressure Drop (psi) 751.8	Percent of Pressure Drop at Bit (%) 34
Max Casing AV (ft/min) 157.3	Max Open Hole AV (ft/min) 266.2	Min Casing AV (ft/min) 137.0	Min Open Hole AV (ft/min) 69.6	ECD End (lb/gal) 11.20
Error				

Wellbore Directional Survey Data							
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
1,026.00	0.68	273.77	1,025.85	15.46	6.08	-14.24	0.36
1,150.00	0.49	275.03	1,149.85	16.68	6.18	-15.50	0.15
1,318.00	0.49	275.03	1,317.84	18.07	6.30	-16.93	0.00

KOP & LP	
Top Depth (ftKB)	Bottom Depth (ftKB)

Lost Circulation					
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Operation In Progress	Total Lost Volume (bbl)	End Date

Well Name: ULANDS 48 3-13 B 441H

Rig: *NorAm 25*

Report #: 5, DFS: 1.4

Interval Problems (NPT)						
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Estimated Cost (Cost)	Estimated Lost Time (hr)

Comment

Daily Drilling Partner Report

Report Date: 5/17/2024

Rig: NorAm 25

Well Name: ULANDS 48 3-13 B 441H

Report #: 6, DFS: 2.4

API/UWI 42383417390000	State/Province TEXAS	County REAGAN	Area WTG	Original KB Elevation (ft) 2,788.00	Ground Elevation (ft) 2,763.00	KB-Ground Distance (ft) 25.00
Target Formation WFMP B LOWER	Target Depth (ftKB) 18,150	Regulatory Spud Date 5/13/2024	Rotary Spud Date 5/13/2024	Rig Release Date		
Start Depth (ftKB) 1,318.0	Current Depth (ftKB) 5,073	Progress (ft) 3,755				

Last Casing String						
Casing Description Surface Casing	Csg Size (in) 13 3/8	Weight/Length (lb/ft) 54.50	String Grade J-55	Run Date 5/13/2024	Length (ft) 912.37	Csg Depth (ftKB) 908

Current Phase						
Phase Type 1 Surface	Phase Type 2 Casing and Cement	Model Duration (days) 0.17	Planned Start Depth (ftKB) 915.0	Planned End Depth (ftKB) 915.0	Actual Start Date 5/13/2024 10:45	Actual End Date 5/13/2024 14:00

Summary		
Weather Partly Cloudy	Temperature (°F) 53.0	Hole Condition Good
Operations at Report Time DRILL 12 1/4" INTERMEDIATE AT 5,073'.	Operations Next Report Period DRILL 12 1/4" INTERMEDIATE TO 6,600'	
Operations Summary DRILL 12 1/4" INTERMEDIATE F/ 1,318' T/ 5,073'.		

Remarks						
NORAM 25 CREWS : DAYS - FULL / NIGHTS - FULL DAYS FROM SPUD: 2.4 SPUD DATE: 5/13/24 AT 01:45 HOLE DEPTH : 5,073' 24 HR FOOTAGE : 3,755' ROTATE FOOTAGE : 3,528' SLIDE FOOTAGE : 227' SLIDE PERCENT 6% BOP TEST : EVERY 21 DAYS LAST BOP TEST : 5/16/24 AT 01:00. RESUME WELL ON 5/15/2024 AT 08:00. START 12 1/4" INTERMEDIATE ON 5/16/24 AT 04:15. NO INCIDENTS ACCIDENTS OR SPILLS.						

Daily Time Log						
Start Time	Dur (hr)	End Time	Desc	End Depth (ftKB)	Prob Hrs (hr)	Com
06:00	11.00	17:00	DRILL ACTUAL	3,101.0		DRILL 12 1/4" INTERMEDIATE F/ 1,318' T/ 3,101' - WOB 35 - RPM 50 - GPM 818 - SPP 3,100 - DIFF 800 - TQ 22K - OBP 2,300.
17:00	0.50	17:30	LUBRICATE RIG	3,101.0		SERVICE RIG AND TOP-DRIVE.
17:30	4.50	22:00	DRILL ACTUAL	3,955.0		DRILL 12 1/4" INTERMEDIATE F/ 3,101' T/ 3,955' - WOB 35 - RPM 40 - GPM 850 - SPP 3,430 - DIFF 870 - TQ 23K - OBP 2,560. ***DISPLACED WELLBORE WITH 8.9 PPG PRE-HYDRATED GEL (SLOP) MUD WHILE DRILLING AT 3,700' MD.*** ***ENCOUNTERED WATER FLOW AT 3,820', RECORDED SICP OF 328 PSI.*** ***WHILE DRILLING DOWN FLOWLINE WITH 850 GPM PIT VOLUME GAINED 30 BBLS/HR.***
22:00	0.50	22:30	DIRECTIONAL WORK	3,955.0	0.50	TROUBLE SHOOT MWD.
22:30	7.50	06:00	DRILL ACTUAL	5,073.0		DRILL 12 1/4" INTERMEDIATE F/ 3,955' T/ 5,073' - WOB 35 - RPM 40 - GPM 850 - SPP 3,458 - DIFF 872 - TQ 23K - OBP 2,6860.

Diesel and Nat Gas Supply					
Supply Item Des	Type	Received	Consumed	Returned	On Loc
MUD DIESEL		0.0	0.0	0.0	3,798.0
RIG DIESEL		0.0	3,803.0	0.0	11,606.0

Daily Mud Checks													
3,017.0ftKB, 5/16/2024 16:00													
Mud Company M-I SWACO						Checked By Mud Engineer							
Time 16:00		Mud Type WBM-SaturatedSalt		Depth (ftKB) 3,017.0		MW (lb/gal) 10.2		Funnel Viscosity (s/qt) 28		PV Calc (cP) 2.0		YP Calc (lb/100ft) 2.000	
Gel 10 sec (lb/100ft²) 1.000		Gel 10 min (lb/100ft²) 1.000		Gel 30 min (lb/100ft²) 1.000		Filtrate (mL/30min)		Filter Cake (1/32")		pH 10.5			
Percent Oil (%) 0.0		Percent Water (%) 90.0		Chlorides (mg/L) 170,000		Calcium (mg/L)		Electric Stab (V)		Solids (%) 10.0			
Max Background Gas 0.00			Max Connection Gas 0.00			Max Trip Gas 0.00			Max Drill Gas 0.00			Max H2S (ppm) 0	
BOP Pressure Tests													
Type BOP Pressure Test					Last Date 5/16/2024				Next Check Date 6/6/2024				
Drill Strings													
Drill String Name 1ST INTERMEDIATE BHA		BHA # 2	Drill Bit 12 1/4in, WAV616, 71447			Bit Run 2	Date Pick Up 5/16/2024		Date Out of Hole		IADC Bit Dull -----		TFA (incl Noz) (in²) 0.84
Nozzles (1/32") 11/11/11/11/11/11/11/11			Depth In (ftKB) 915.0	Depth Out (ftKB) 5,073.0	Depth Drilled (ft) 4,158.00	BHA ROP (ft/hr) 168.0	String Wt (1000lb) 167	Max Slack-Off Hds 160	Max Pick-Up Hook 180	WOB Max (no exc) 35	Max RPM (No B) 203		
Drill String Drilling Parameters													
1,318.0 - 1,545.0 ftKB													
Start Depth (ftKB) 1,318.0		End Depth (ftKB) 1,545.0		Cum Depth Drilled (ft) 630.00		Drilling Time (hr) 4.25		Cum Drilling Time (hr) 6.00		Interval ROP (ft/hr) 53.4		Flow Rate (gpm) 850	BH Temperature (°F)
Weight on Bit (1000lb) 22		RPM (rpm) 0		Stand Pipe Pressure (psi) 2,912.0		Drill Str Wt (1000lb) 148		PU Str Wt (1000lb) 180		SO Str Wt (1000lb) 160		Drilling Torque 8,000.0	Off Bottom Torque 2,000.0
1,545.0 - 5,073.0 ftKB													
Start Depth (ftKB) 1,545.0		End Depth (ftKB) 5,073.0		Cum Depth Drilled (ft) 4,158.00		Drilling Time (hr) 18.75		Cum Drilling Time (hr) 24.75		Interval ROP (ft/hr) 188.2		Flow Rate (gpm) 850	BH Temperature (°F)
Weight on Bit (1000lb) 35		RPM (rpm) 40		Stand Pipe Pressure (psi) 3,458.0		Drill Str Wt (1000lb) 135		PU Str Wt (1000lb) 180		SO Str Wt (1000lb) 160		Drilling Torque 23,000.0	Off Bottom Torque 17,000.0
Drill String Components													
Type		Item Des				Jts	Len (ft)	ID (in)	OD (in)	Btm Conn Type		Btm Thread	
Drill Pipe		Drill Pipe				114	3,568.66	4.28	5	Box		IF	
HW Drill Pipe		10 Stands HWDP				30	926.90	3.00	5	Box		IF	
Other		X-O				1	3.52	2.94	6 1/16	Box		4 1/2 XH	
Drill Collar		5 Stands (15 Joints) 6 1/2" DCs				15	455.77	3.00	6 1/2	Box		4 1/2 XH	
Other		X-O				1	3.30	2.88	6 3/4	Box		6 5/8 Reg	
Drill Collar		8 NMDC				1	31.05	3.25	8	Box		6 5/8 Reg	
MWD		8 Tool Carrier / Gap Sub				1	17.74	2.88	8 1/16	Box		6 5/8 Reg	
Drill Collar		8 NMPC				1	14.74	3.31	8	Box		6 5/8 Reg	
Other		8" Shock Sub				1	14.09	2.88	7 15/16	Box		6 5/8 Reg	
Drill String Component Mud Motor		900 ATLAS 7/8 - 7.0 - 1.83° ADJ W/ 11.75° BHS 0.18 RPG.				1	35.98	2.00	9	Box		6 5/8 Reg	
Hydraulic Calculations													
Bit Hydraulic Power (hp) 488.4			Bit Hydraulic Power Per Hole Area (hp/in²) 4.1			Bit Jet Velocity (ft/s) 326.5			Bit Pressure Drop (psi) 984.9		Percent of Pressure Drop at Bit (%) 28		
Max Casing AV (ft/min) 155.3			Max Open Hole AV (ft/min) 301.7			Min Casing AV (ft/min) 155.3			Min Open Hole AV (ft/min) 74.1		ECD End (lb/gal) 10.20		
Error													
Wellbore Directional Survey Data													
MD (ftKB)	Incl (°)	Azrn (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Note					
1,336.00	0.58	309.76	1,335.84	-5.23	6.54	-16.95	0.38						
1,428.00	0.63	294.81	1,427.83	-5.68	7.05	-17.77	0.18						
1,522.00	0.85	306.83	1,521.83	-6.24	7.68	-18.80	0.29						
1,617.00	0.80	301.80	1,616.82	-6.92	8.45	-19.93	0.09						
1,711.00	0.71	308.08	1,710.81	-7.55	9.16	-20.94	0.13						
1,805.00	0.89	303.04	1,804.80	-8.22	9.92	-22.01	0.21						
1,899.00	0.87	297.63	1,898.79	-8.85	10.64	-23.26	0.09						
1,993.00	1.03	309.11	1,992.78	-9.62	11.51	-24.55	0.26						
2,087.00	1.05	309.89	2,086.76	-10.60	12.59	-25.86	0.03						
2,181.00	1.43	298.03	2,180.74	-11.57	13.70	-27.56	0.49						
2,274.00	3.79	292.36	2,273.64	-12.99	15.41	-31.43	2.55						
2,462.00	6.23	292.24	2,460.90	-18.05	21.64	-46.62	1.30						
2,556.00	6.81	294.79	2,554.29	-21.56	25.90	-56.40	0.69						
2,650.00	7.78	295.85	2,647.53	-25.84	31.02	-67.18	1.04						
2,744.00	8.55	292.43	2,740.58	-30.35	36.46	-79.37	0.97						
2,932.00	10.37	284.74	2,926.02	-37.74	46.09	-108.65	1.18						
3,026.00	10.39	286.30	3,018.48	-41.02	50.63	-124.97	0.30						
3,119.00	10.50	286.49	3,109.94	-44.55	55.39	-141.14	0.12						

Well Name: ULANDS 48 3-13 B 441H

Rig: NorAm 25

Report #: 6, DFS: 2.4

Wellbore Directional Survey Data								
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Note
3,213.00	11.48	286.01	3,202.22	-48.24	60.40	-158.35	1.05	
3,307.00	10.13	286.20	3,294.55	-51.83	65.28	-175.28	1.44	
3,401.00	8.40	285.78	3,387.32	-54.89	69.46	-189.83	1.84	
3,495.00	7.32	283.51	3,480.44	-57.21	72.72	-202.26	1.20	
3,589.00	7.31	283.90	3,573.67	-59.16	75.56	-213.88	0.05	
3,683.00	7.35	286.47	3,666.90	-61.41	78.70	-225.45	0.35	
3,871.00	7.20	287.35	3,853.39	-66.59	85.62	-248.23	0.10	
3,965.00	6.36	290.18	3,946.73	-69.34	89.18	-258.74	0.96	
4,059.00	6.57	288.22	4,040.13	-72.05	92.65	-268.74	0.32	
4,152.00	7.23	284.64	4,132.46	-74.37	95.80	-279.45	0.85	
4,247.00	7.44	281.10	4,226.68	-76.17	98.49	-291.27	0.52	
4,340.00	8.74	283.24	4,318.76	-77.97	101.27	-304.06	1.43	
4,434.00	8.83	281.40	4,411.65	-79.96	104.33	-318.08	0.31	
4,527.00	8.14	276.04	4,503.64	-81.03	106.43	-331.63	1.13	
4,621.00	6.74	276.58	4,596.84	-81.45	107.77	-343.73	1.49	
4,715.00	5.52	276.07	4,690.30	-81.80	108.88	-353.70	1.30	
4,903.00	3.71	272.92	4,877.69	-81.92	110.14	-368.77	0.97	
5,073.00	3.71	272.92	5,047.33	-81.65	110.70	-379.76	0.00	

KOP & LP	
Top Depth (ftKB)	Bottom Depth (ftKB)

Lost Circulation					
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Operation In Progress	Total Lost Volume (bbl)	End Date

Interval Problems (NPT)						
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Estimated Cost (Cost)	Estimated Lost Time (hr)
Downhole Equipment	MWD	5/16/2024	3,955.0	3,955.0		
Comment RECYCLE PUMPS.						

Well Name: ULANDS 48 3-13 B 441H
Report #: 7, DFS: 3.4

API/UWI 42383417390000	State/Province TEXAS	County REAGAN	Area WTG	Original KB Elevation (ft) 2,788.00	Ground Elevation (ft) 2,763.00	KB-Ground Distance (ft) 25.00
Target Formation WFMP B LOWER	Target Depth (ftKB) 18,150	Regulatory Spud Date 5/13/2024	Rotary Spud Date 5/13/2024	Rig Release Date		
Start Depth (ftKB) 5,073.0	Current Depth (ftKB) 6,701		Progress (ft) 1,628			
Last Casing String						
Casing Description Intermediate 1	Csg Size (in) 9 5/8	Weight/Length (lb/ft) 40.00	String Grade J-55	Run Date 5/17/2024	Length (ft) 6,681.56	Csg Depth (ftKB) 6,677
Current Phase						
Phase Type 1 Intermediate	Phase Type 2 Casing & Cement	Model Duration (days) 0.50	Planned Start Depth (ftKB) 6,701.0	Planned End Depth (ftKB) 6,701.0	Actual Start Date 5/17/2024 21:30	Actual End Date
Summary						
Weather Clear		Temperature (°F) 62.0		Hole Condition Good		
Operations at Report Time POOH TO RUN 9 5/8" INTERMEDIATE CASING AT 380'. HOLE DEPTH AT 6,701'.				Operations Next Report Period CONTINUE POOH, LAY-DOWN DIRECTIONAL BHA, MIRU DESERT CASING CREW, RUN 9 5/8" INTERMEDIATE CASING T/ 6,677', CIRCULATE 1.5x CASING CAPACITY, PREP RIG TO WALK T/ UL WTG 3-233 B 442H, CONDUCT OFF-LINE CEMENT JOB.		
Operations Summary DRILL 12 1/4" INTERMEDIATE F/ 5,073' T/ 6,701', CONDUCT CLEAN-UP CYCLE, STRIP OUT OF HOLE T/ 1,693', BUILD 15 PPG KILL MUD, BULL-HEAD KILL MUD DOWN BACKSIDE, PULL ROTATING HEAD, POOH TO RUN 9 5/8" PRODUCTION CASING AT 380'.						
Remarks NORAM 25 CREWS : DAYS - FULL / NIGHTS - FULL DAYS FROM SPUD: 3.4 SPUD DATE: 5/13/24 AT 01:45 HOLE DEPTH : 6,701' 24 HR FOOTAGE : 1,628' ROTATE FOOTAGE : 1,628' SLIDE FOOTAGE : 0' SLIDE PERCENT 0.0% BOP TEST : EVERY 21 DAYS LAST BOP TEST : 5/16/24 AT 01:00. RESUME WELL ON 5/15/2024 AT 08:00. START 12 1/4" INTERMEDIATE ON 5/16/24 AT 04:15. TD 12 1/4" INTERMEDIATE ON 5/17/24 AT 21:30. NO INCIDENTS ACCIDENTS OR SPILLS.						
Daily Time Log						
Start Time	Dur (hr)	End Time	Desc	End Depth (ftKB)	Prob Hrs (hr)	Com
06:00	0.75	06:45	DRILL ACTUAL	5,167.0		DRILL 12 1/4" INTERMEDIATE F/ 5,073' T/ 5,167' - WOB 35 - RPM 40 - GPM 850 - SPP 3,500 - DIFF 870 - TQ 23K - OBP 2,630. **60 BPH WATER FLOW @ 3,820'***
06:45	0.50	07:15	MONITORING WELL	5,167.0		CHECK FLOW @ 5,167'. **(WELL FLOWING 68 BPH) SHUT IN WELL AND RECORDED SICP OF 312 PSI**
07:15	0.75	08:00	WEAR BUSHING / ROTATING HEAD	5,167.0		CHANGE OUT BAD BOWL GASKET, AND WENT AHEAD AND CHANGED OUT BEARING ASSEMBLY WITH NEW RUBBER.
08:00	9.00	17:00	DRILL ACTUAL	6,200.0		DRILL 12 1/4" INTERMEDIATE F/ 5,167' T/ 6,200- WOB 38 - RPM 55 - GPM 640 - SPP 2,380 - DIFF 800 - TQ 25K - OBP 1,580. *SEEING MAX TQ LIMITS WHILE DRILLING* **DRILLING THROUGH CHOKE HOLDING 150 PSI BACK PRESSURE TO CONTROL FLOW**
17:00	0.50	17:30	LUBRICATE RIG	6,200.0		SERVICE RIG & TOP DRIVE.
17:30	4.00	21:30	DRILL ACTUAL	6,701.0		DRILL 12 1/4" INTERMEDIATE F/ 6,200 T/ 6,701' - WOB 35 - RPM 55 - GPM 607 - SPP 2,412 - DIFF 600 - TQ 25K - OBP 1,812. ***SEEING MAX TQ LIMITS WHILE DRILLING.*** ***DRILLING THROUGH CHOKE HOLDING 150 PSI BACK PRESSURE TO CONTROL FLOW.***
21:30	2.00	23:30	COND MUD & CIRC	6,701.0		PUMP (3) 20 BBL HIGH VIS SWEEPS AND CIRCULATE TILL SHAKERS ARE CLEAN.
23:30	0.50	00:00	TRIPS	6,701.0		STRIP OUT OF HOLE F/ 6,701' T/ 6,007'. WHILE PUMPING CALCULATED FILL DOWN BACKSIDE THROUGH KILL LINE USING 13.5 KILL MUD.

Well Name: ULANDS 48 3-13 B 441H

Report #: 7, DFS: 3.4

Daily Time Log

Start Time	Dur (hr)	End Time	Desc	End Depth (ftKB)	Prob Hrs (hr)	Com
00:00	0.25	00:15	WEAR BUSHING / ROTATING HEAD	6,701.0		CHANGE OUT ROTATING HEAD BOWL GASKET DUE TO MUD POURING OUT.
00:15	1.75	02:00	TRIPS	6,701.0		STRIP OUT OF HOLE F/ 6,007' T/ 1,693' WHILE PUMPING CALCULATED FILL DOWN BACKSIDE THROUGH KILL LINE USING 13.5 KILL MUD.
02:00	2.25	04:15	COND MUD & CIRC	6,701.0		SHUT WELL TO MONITOR CASING PRESSURE WHILE BUILDING 15 PPG KILL MUD. SICP PRESSURE STABILIZED AT 243 PSI. START PUMPING KILL MUD IN 10 BBL INCREMENTS TILL WELL WAS STATIC. PUMPED TOTAL OF 86 BBL'S TILL WELL WAS STATIC.
04:15	0.50	04:45	WEAR BUSHING / ROTATING HEAD	6,701.0		PULL ROTATING HEAD BEARING ASSEMBLY, WELL STATIC AT TOP OF ANNULAR.
04:45	1.25	06:00	TRIPS	6,701.0		POOH F/ 1,693' T/ 380' WHILE PUMPING CALCULATED FILL DOWN BACKSIDE THROUGH KILL LINE USING 9.2 SYSTEM MUD.

Diesel and Nat Gas Supply

Supply Item Des	Type	Received	Consumed	Returned	On Loc
MUD DIESEL		0.0	0.0	0.0	3,798.0
RIG DIESEL		0.0	2,209.0	0.0	9,397.0

Daily Mud Checks

6,104.0ftKB, 5/17/2024 16:00

Mud Company M-I SWACO			Checked By Mud Engineer			
Time 16:00	Mud Type WBM-WBMOther(M-ISWACO)	Depth (ftKB) 6,104.0	MW (lb/gal) 9.3	Funnel Viscosity (s/qt) 34	PV Calc (cP) 8.0	YP Calc (lb/100ft) 3.000
Gel 10 sec (lb/100ft²) 6.000	Gel 10 min (lb/100ft²) 7.000	Gel 30 min (lb/100ft²) 9.000	Filtrate (mL/30min)	Filter Cake (1/32")	pH 10.0	
Percent Oil (%) 0.0	Percent Water (%) 91.0	Chlorides (mg/L) 18,000	Calcium (mg/L)	Electric Stab (V)	Solids (%) 9.0	
Max Background Gas 0.00	Max Connection Gas 0.00	Max Trip Gas 0.00	Max Drill Gas 0.00	Max H2S (ppm) 0		

BOP Pressure Tests

Type BOP Pressure Test	Last Date 5/16/2024	Next Check Date 6/6/2024
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Drill Strings

Drill String Name 1ST INTERMEDIATE BHA	BHA # 2	Drill Bit 12 1/4in, WAV616, 71447	Bit Run 2	Date Pick Up 5/16/2024	Date Out of Hole	IADC Bit Dull -----	TFA (incl Noz) (in²) 0.84		
Nozzles (1/32") 11/11/11/11/11/11/11/11	Depth In (ftKB) 915.0	Depth Out (ftKB) 6,701.0	Depth Drilled (ft) 5,786.00	BHA ROP (ft/hr) 150.3	String Wt (1000lb) 199	Max Slack-Off Hook 200	Max Pick-Up Hook 250	WOB Max (no exc) 35	Max RPM (No E) 203

Drill String Drilling Parameters

5,073.0 - 6,701.0 ftKB

Start Depth (ftKB) 5,073.0	End Depth (ftKB) 6,701.0	Cum Depth Drilled (ft) 5,786.00	Drilling Time (hr) 13.75	Cum Drilling Time (hr) 38.50	Interval ROP (ft/hr) 118.4	Flow Rate (gpm) 640	BH Temperature (°F)
Weight on Bit (1000lbf) 35	RPM (rpm) 55	Stand Pipe Pressure (psi) 2,380.0	Drill Str Wt (1000lbf) 250	PU Str Wt (1000lbf) 250	SO Str Wt (1000lbf) 200	Drilling Torque 16,000.0	Off Bottom Torque 1,000.0

Drill String Components

Type	Item Des	Jts	Len (ft)	ID (in)	OD (in)	Btm Conn Type	Btm Thread
Drill Pipe	Drill Pipe	166	5,196.66	4.28	5	Box	IF
HW Drill Pipe	10 Stands HWDP	30	926.90	3.00	5	Box	IF
Other	X-O	1	3.52	2.94	6 1/16	Box	4 1/2 XH
Drill Collar	5 Stands (15 Joints) 6 1/2" DCs	15	455.77	3.00	6 1/2	Box	4 1/2 XH
Other	X-O	1	3.30	2.88	6 3/4	Box	6 5/8 Reg
Drill Collar	8 NMDC	1	31.05	3.25	8	Box	6 5/8 Reg
MWD	8 Tool Carrier / Gap Sub	1	17.74	2.88	8 1/16	Box	6 5/8 Reg
Drill Collar	8 NMPC	1	14.74	3.31	8	Box	6 5/8 Reg
Other	8" Shock Sub	1	14.09	2.88	7 15/16	Box	6 5/8 Reg
Drill String Component Mud Motor	900 ATLAS 7/8 - 7.0 - 1.83° ADJ W/ 11.75° BHS 0.18 RPG.	1	35.98	2.00	9	Box	6 5/8 Reg

Hydraulic Calculations

Bit Hydraulic Power (hp) 190.1	Bit Hydraulic Power Per Hole Area (hp/in²) 1.6	Bit Jet Velocity (ft/s) 245.8	Bit Pressure Drop (psi) 509.1	Percent of Pressure Drop at Bit (%) 21
Max Casing AV (ft/min) 1,202.5	Max Open Hole AV (ft/min) 227.1	Min Casing AV (ft/min) 295.6	Min Open Hole AV (ft/min) 227.1	ECD End (lb/gal) 9.40

Error

Wellbore Directional Survey Data

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Note
5,091.00	2.94	276.22	5,065.36	-82.06	111.11	-379.72	0.47	
5,184.00	2.39	279.27	5,158.26	-82.31	111.69	-384.00	0.61	
5,278.00	1.97	285.39	5,252.19	-82.78	112.43	-387.49	0.51	

Well Name: ULANDS 48 3-13 B 441H

Rig: NorAm 25

Report #: 7, DFS: 3.4

Wellbore Directional Survey Data								
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Note
5,372.00	1.45	285.18	5,346.15	-83.32	113.17	-390.20	0.55	
5,466.00	1.31	286.88	5,440.12	-83.77	113.79	-392.38	0.16	
5,560.00	0.84	296.29	5,534.11	-84.26	114.41	-394.02	0.53	
5,654.00	0.69	296.95	5,628.10	-84.74	114.97	-395.14	0.16	
5,748.00	0.83	304.59	5,722.09	-85.30	115.62	-396.21	0.18	
5,841.00	0.64	313.61	5,815.08	-85.97	116.36	-397.14	0.24	
5,936.00	0.33	309.23	5,910.08	-86.46	116.89	-397.74	0.33	
6,030.00	0.32	343.41	6,004.08	-86.86	117.32	-398.02	0.20	
6,124.00	0.22	340.17	6,098.08	-87.27	117.74	-398.16	0.11	
6,217.00	0.23	5.24	6,191.08	-87.62	118.09	-398.20	0.11	
6,311.00	0.52	25.82	6,285.07	-88.21	118.66	-398.00	0.34	
6,404.00	0.55	42.60	6,378.07	-88.95	119.37	-397.51	0.17	
6,498.00	0.48	52.08	6,472.07	-89.57	119.95	-396.90	0.12	
6,625.00	0.56	52.83	6,599.06	-90.34	120.65	-395.98	0.06	
6,701.00	0.56	52.83	6,675.06	-90.83	121.10	-395.39	0.00	

KOP & LP	
Top Depth (ftKB)	Bottom Depth (ftKB)

Lost Circulation					
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Operation In Progress	Total Lost Volume (bbl)	End Date

Interval Problems (NPT)						
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Estimated Cost (Cost)	Estimated Lost Time (hr)

Comment

Well Name: ULANDS 48 3-13 B 441H
Report #: 8, DFS: 4.2

API/UWI 42383417390000	State/Province TEXAS	County REAGAN	Area WTG	Original KB Elevation (ft) 2,788.00	Ground Elevation (ft) 2,763.00	KB-Ground Distance (ft) 25.00
Target Formation WFMP B LOWER	Target Depth (ftKB) 18,150	Regulatory Spud Date 5/13/2024	Rotary Spud Date 5/13/2024	Rig Release Date		
Start Depth (ftKB) 6,701.0	Current Depth (ftKB) 6,701			Progress (ft) 0		

Last Casing String

Casing Description Intermediate 1	Csg Size (in) 9 5/8	Weight/Length (lb/ft) 40.00	String Grade J-55	Run Date 5/17/2024	Length (ft) 6,683.51	Csg Depth (ftKB) 6,678
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Current Phase

Phase Type 1 Intermediate	Phase Type 2 Casing & Cement	Model Duration (days) 0.50	Planned Start Depth (ftKB) 6,701.0	Planned End Depth (ftKB) 6,701.0	Actual Start Date 5/17/2024 21:30	Actual End Date
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Summary

Weather Clear	Temperature (°F) 77.0	Hole Condition Good
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Operations at Report Time PAUSE WELL AT 01:00 CST ON 5/19/24. HOLE DEPTH AT 6,701'.	Operations Next Report Period WELL PAUSED ON 5/19/24 AT 01:00 CST.
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Operations Summary
 CONTINUE POOH, LAY-DOWN DIRECTIONAL BHA, MIRU DESERT CASING CREW, RUN 9 5/8" INTERMEDIATE CASING T/ 6,678', CIRCULATE 1.5x CASING CAPACITY, PREP RIG TO WALK T/ UL WTG 3-233 B 442H, CONDUCT OFF-LINE CEMENT JOB.

Remarks
 NORAM 25 CREWS : DAYS - FULL / NIGHTS - FULL
 DAYS FROM SPUD: 0.0
 SPUD DATE: 5/13/24 AT 01:45
 HOLE DEPTH : 6,701'
 24 HR FOOTAGE : 0'
 ROTATE FOOTAGE : 0'
 SLIDE FOOTAGE : 0'
 SLIDE PERCENT 0.0%
 BOP TEST : EVERY 21 DAYS
 LAST BOP TEST : 5/16/24 AT 01:00.
 RESUME WELL ON 5/15/2024 AT 08:00.
 PAUSED WELL ON 5/19/24 AT 01:00.
 NO INCIDENTS ACCIDENTS OR SPILLS.

Daily Time Log

Start Time	Dur (hr)	End Time	Desc	End Depth (ftKB)	Prob Hrs (hr)	Com
06:00	0.75	06:45	TRIPS	6,701.0		POOH F/ 380' T/ BHA WHILE PUMPING CALCULATED FILL DOWN BACKSIDE THROUGH KILL LINE USING 9.2 SYSTEM MUD.
06:45	0.50	07:15	DIRECTIONAL WORK	6,701.0		LAY DOWN SHOCK SUB, NMDC, MWD TOOL, SET BACK DIR BHA. BIT GRADED 1, 1, NO, A, X, 0, NO, TD.
07:15	0.50	07:45	WEAR BUSHING / ROTATING HEAD	6,701.0		PULL WEAR BUSHING & RIG DOWN 5" DRILL PIPE ELEVATORS.
07:45	1.25	09:00	RUN CASING & CEMENT	6,701.0		PJSM, RU DESERT CASING RUNNING EQUIPMENT & CRT.
09:00	4.50	13:30	RUN CASING & CEMENT	6,701.0		RUN 9 5/8" INTERMEDIATE CASING T/ 4,006'.
13:30	1.50	15:00	MONITORING WELL	6,701.0		WELL STARTED FLOWING, SHUT WELL IN, RECORDED SICP OF XXX PSI WHILE BUILDING 15.1 PPG KILL MUD. PUMPED XX BBLS KILL MUD DOWN BACKSIDE. WELL STATIC.
15:00	0.75	15:45	RUN CASING & CEMENT	6,701.0		RUN 9 5/8" INTERMEDIATE CASING T/ 4,701'.
15:45	3.00	18:45	MONITORING WELL	6,701.0		WELL STARTED FLOWING, SHUT WELL IN, RECORDED SICP OF XXX PSI WHILE BUILDING 16 PPG KILL MUD. PUMPED XX BBLS KILL MUD DOWN BACKSIDE. WELL STATIC.
18:45	2.00	20:45	RUN CASING & CEMENT	6,701.0		RUN 9 5/8" INTERMEDIATE CASING T/ 6,603'.
20:45	1.25	22:00	RUN CASING & CEMENT	6,701.0		FILL CASING, WASH LAST TWO JOINTS TO BOTTOM. LAND CASING ON MANDERAL AT 6,678' MD ON 5/18/24 AT 22:00 CST.
22:00	0.75	22:45	COND MUD & CIRC	6,701.0		CIRCULATE 1.5x CASING CAPACITY. WHILE PUMPING CASING CAPACITY, 468 BBLS INTO CASING CAPACITY CASING PACKED OFF, REDUCED GPM F/ 350 T/ 145 WITH NO SUCCESS, WORKED STRING WEIGHT UPTO 550K WITH NO SUCCESS OF FREEING CASING STRING. DECISION WAS MADE TO FINISH 1.5x CASING CAPACITY WITH NO RETURNS AND PREP RIG FOR OFF-LINE CEMENT JOB.
22:45	0.75	23:30	COND MUD & CIRC			

Daily Time Log						
Start Time	Dur (hr)	End Time	Desc	End Depth (ftKB)	Prob Hrs (hr)	Com
23:30	1.00	00:30	RUN CASING & CEMENT	6,701.0		LAY-DOWN LANDING JT, PICK-UP CACTUS WASH TOOL, WASH WELLHEAD PROFILE AS PER CACTUS WELLHEAD TECH, LAY-DOWN WASH TOOL, PICK-UP AND SET PACK-OFF. TEST LOWER SEALS TO 5,000 PSI AND UPPER SEALS TO 10,000 PSI. ALL SEALS TESTED GOOD. RUPTURED RUPTURE DISC AT 12,500 PSI, CONDUCT PULL TEST 40K OVER. PULL TEST GOOD.
00:30	0.50	01:00	MONITORING WELL	6,701.0		NIPPLE DOWN BOP AND PREP RIG TO WALK 30' NORTH TO UL WTG 3-233 B 442H. ***WELL PAUSED ON 5/19/24 AT 01:00 CST.***
01:00		01:00	RUN CASING & CEMENT	6,701.0		PJSM / RIG UP OFFLINE TOOL AND HALLIBURTON CEMENT EQUIPMENT. FLUSH AND TEST LINES TO 5,000 PSI.
01:00		01:00	RUN CASING & CEMENT	6,701.0		PUMP 25 BBL GEL SPACER. PUMP 168 BBL'S (175 SXS) OF LEAD CEMENT @11.0 PPG, 2.86 CEMENT + PUMP 56.4 BBL'S OF TAIL CEMENT OF TAIL CEMENT @ 12.5 PPG, 1.81 YEILD DROP PLUG AND DISPLACE WITH 345.3 BBL'S OF FW, FINAL LIFT 950 PSI BUMP PLUG 1,700 PSI. PRESSURE UP TO 2,304 PSI & INFLATE PACKER, CHECK FLOATS.
01:00		01:00	RUN CASING & CEMENT	6,701.0		DROP OPENING BOMB AND WAIT 30 MINUTES TO FALL.
01:00		01:00	RUN CASING & CEMENT	6,701.0		PUMP 2ND STAGE CEMENT. PUMP 25 BBL GEL SPACER+318.2 BBL'S (625 SKS) OF LEAD CEMENT @ 11.0 PPG, 2.86 YEILD + 54.4 BBL'S (230 SXS) OF TAIL CEMENT @ 18.8 PPG, 1.33 YEILD, DROP PLUG AND DISPLACE WITH 179 BBL'S OF FW. FINAL LIFT = 900 PSI, BUMP PLUG W/2,040 PSI, FLOATS HELD. PD @ 11:05 CST ON 4/19/24. DID NOT CIRC ANY CEMENT OFF TOP OF DVT. CIRC 119 BBL'S (234 SKS OF CEMENT TO SURFACE ON 2ND STAGE.
01:00		01:00	TEST B.O.P	6,701.0		TEST 7 5/8" CASING TO 1,500 PSI FOR 30 MINS (GOOD TEST).
01:00		01:00	TEST B.O.P	6,701.0		RIG DOWN CEMENTERS.
01:00		01:00	NU/ND B.O.P	6,701.0		INSTALL & TEST NIGHT CAP (GOOD TEST)

Diesel and Nat Gas Supply					
Supply Item Des	Type	Received	Consumed	Returned	On Loc
MUD DIESEL		0.0	0.0	3,798.0	0.0
RIG DIESEL		0.0	932.0	8,465.0	0.0

Daily Mud Checks						
6,701.0ftKB, 5/18/2024 16:00						
Mud Company M-I SWACO			Checked By Mud Engineer			
Time 16:00	Mud Type WBM-WBMOther(M-ISWACO)	Depth (ftKB) 6,701.0	MW (lb/gal) 9.6	Funnel Viscosity (s/qt) 38	PV Calc (cP) 9.0	YP Calc (lb/100ft) 4.000
Gel 10 sec (lb/100ft²) 7.000	Gel 10 min (lb/100ft²) 8.000	Gel 30 min (lb/100ft²) 10.000	Filtrate (mL/30min)	Filter Cake (1/32")	pH 9.9	
Percent Oil (%) 0.0	Percent Water (%) 90.0	Chlorides (mg/L) 17,000	Calcium (mg/L)	Electric Stab (V)	Solids (%) 10.0	
Max Background Gas 0.00	Max Connection Gas 0.00	Max Trip Gas 0.00	Max Drill Gas 0.00	Max H2S (ppm) 0		

BOP Pressure Tests		
Type BOP Pressure Test	Last Date 5/16/2024	Next Check Date 6/6/2024

Drill Strings								
Drill String Name	BHA #	Drill Bit	Bit Run	Date Pick Up	Date Out of Hole	IADC Bit Dull	TFA (incl Noz) (in²)	
Nozzles (1/32")	Depth In (ftKB)	Depth Out (ftKB)	Depth Drilled (ft)	BHA ROP (ft/hr)	String Wt (1000lbf)	Max Slack-Off Hod	Max Pick-Up Hook	WOB Max (no exc)
								Max RPM (No B

Drill String Drilling Parameters							
<depthstart> - <depthend> ftKB							
Start Depth (ftKB)	End Depth (ftKB)	Cum Depth Drilled (ft)	Drilling Time (hr)	Cum Drilling Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)	BH Temperature (°F)
Weight on Bit (1000lbf)	RPM (rpm)	Stand Pipe Pressure (psi)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Bottom Torque

Drill String Components								
Type	Item Des	Jts	Len (ft)	ID (in)	OD (in)	Btm Conn Type	Btm Thread	

Well Name: ULANDS 48 3-13 B 441H

Rig: NorAm 25

Report #: 8, DFS: 4.2

Wellbore Directional Survey Data										
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Note		
6,701.00	0.56	52.83	6,675.06	-90.83	121.10	-395.39	0.00			
KOP & LP										
Top Depth (ftKB)					Bottom Depth (ftKB)					
Lost Circulation										
Start Date		Top Depth (ftKB)		Bottom Depth (ftKB)		Operation In Progress		Total Lost Volume (bbl)	End Date	
Interval Problems (NPT)										
Problem Type		Problem Subtype		Start Date		Start Depth (ftKB)		End Depth (ftKB)	Estimated Cost (Cost)	Estimated Lost Time (hr)
Comment										

Well Name: ULANDS 48 3-13 B 441H
Report #: 9, DFS: 5

API/UWI 42383417390000	State/Province TEXAS	County REAGAN	Area WTG	Original KB Elevation (ft) 2,788.00	Ground Elevation (ft) 2,763.00	KB-Ground Distance (ft) 25.00
Target Formation WFMP B LOWER		Target Depth (ftKB) 18,150	Regulatory Spud Date 5/13/2024		Rotary Spud Date 5/13/2024	
Start Depth (ftKB) 6,701.0		Current Depth (ftKB) 6,701			Progress (ft) 0	
Last Casing String						
Casing Description Intermediate 1	Csg Size (in) 9 5/8	Weight/Length (lb/ft) 40.00	String Grade J-55	Run Date 5/17/2024	Length (ft) 6,683.51	Csg Depth (ftKB) 6,678
Current Phase						
Phase Type 1 Intermediate	Phase Type 2 NU, Test and Drill Out	Model Duration (days) 0.50	Planned Start Depth (ftKB) 6,701.0	Planned End Depth (ftKB) 6,701.0	Actual Start Date 6/1/2024 07:30	Actual End Date
Summary						
Weather Partly Cloudy		Temperature (°F) 89.0			Hole Condition Good	
Operations at Report Time TESTING CSG			Operations Next Report Period DRILL SHOE TRACK, DISPLACE W/ OBM, DRILL VERTICAL HOLE & BUILD CURVE, POOH P/U LATERAL ASSEMBLY, TIH , DRILL LATERAL			
Operations Summary PREP TO SKID, WALK TO ULANDS 48 3-13 B 441H, N/U BOP'S TEST BOP'S,TRANSFER OBM TO MUD TANKS,INSTALL WB, LATCH CURVE BHA,TIH, DRILL DV-TOOL & CONTINGENCY BAFFLE, TIH, TEST CSG						
Remarks DAYS FROM SPUD: 5 *NORAM 25 CREWS : DAYS - FULL / NIGHTS - FULL *START 17 1/2" SURFACE @ 01:45 CST ON 5-13-2024 @ 120' *TD 17 1/2 SURFACE @ 07:30 CST ON 5-13-2024 @ 915' **START 12 1/4 INTERMEDIATE ON 5-16-24 AT 04:15.** ** TD 12 1/4 INTERMEDIATE ON 5-17-2024 AT 21:30** BOP TEST : EVERY 21 DAYS LAST BOP TEST : 6/1/24 NEXT BOP TEST: 6/22/2024 RESUME WELL ON 5/15/2024 AT 08:00. PAUSED WELL ON 5/19/24 AT 01:00. REUME WELL ON 6-1-2024 AT 07:30 *NO INCIDENTS ACCIDENTS OR SPILLS.						
Daily Time Log						
Start Time	Dur (hr)	End Time	Desc	End Depth (ftKB)	Prob Hrs (hr)	Com
07:30	0.25	07:45	RIGUP & TEARDOWN	6,701.0		PREP RIG TO SKID BACK 90' TO ULANDS 48 3-13 B 441H
07:45	3.00	10:45	RIGUP & TEARDOWN	6,701.0		WALK RIG 90' SOUTH TO THE ULANDS 48 3-13 B 441H
10:45	1.75	12:30	NU/ND B.O.P	6,701.0		N/U BOPS INSTALL MUD LINES, FLOW LINE, CHOKE LINE, CENTER BOP'S, TIGHTEN UP TURN BUCKLES, SET MOUSE HOLE
12:30	7.00	19:30	TEST B.O.P	6,701.0		M/U TEST JOINT,FILL STACK,TEST BP,TP,BR,4" MANUAL, 4" HCR, BOTH INSIDE & OUTSIDE KILL LINE,CHECK VALVE,CHOKE MANIFOLD,FLOOR VALVES TIW & INSIDE GREY, UPPER KELLY VALVE, 250PSI LOW 5000PSI HIGH, ANNULAR 250PSI LOW 2500PSI HIGH,MUD LINES, 4" VALVES ON MUD PUMPS, 4" VALVE ON STAND PIPE 250PSI LOW 5000PSI HIGH
19:30	0.50	20:00	WEAR BUSHING / ROTATING HEAD	6,701.0		INSTALL WEAR BUSHING & CLOSE B-SECTION CSG VALVES ON WELL HEAD
20:00	0.75	20:45	DIRECTIONAL WORK	6,701.0		LATCH UP 8 3/4" BHA OUT OF DERRICK, MAKE UP BIT, SCRIBE & TEST SAME (ISSUES W/ MWD TOOL NOT GETTING MUD PULSE)
20:45	1.50	22:15	DIRECTIONAL WORK	6,701.0		TROUBLESHOOT MWD MUD PLUSE NOT GETTING SIGNAL, CHANGED OUT LINE & TRANSDUCER & TIH 5 STANDS RE-TEST (TEST OK)
22:15	2.00	00:15	TRIPS	6,701.0		TIH T/ 3,860' NO ISSUES
00:15	1.25	01:30	CUT OFF DRILL LINE	6,701.0		SLIP & CUT DRILL LINE & C/O SAVER SUB
01:30	0.25	01:45	TEST B.O.P	6,701.0		TEST CSG ABOVE DV-TOOL 1500PSI 5 MIN
01:45	2.00	03:45	DRILL ACTUAL	6,701.0		DRILL DV-TOOL & CONTINGENCY BAFFLE WOB-5-12, ROT-20, SPP- 730, DIFF-200 , GPM-450, TQ-5-7K 100% RETURNS TAGGED DV-TOOL @ 3,898' & CONTINGENCY BAFFLE @ 3,898' & WORKED THROUGH SAME
03:45	1.50	05:15	TRIPS	6,701.0		TIH T/ 6,630' TAGGED FC @ 6,630'

Daily Time Log

Start Time	Dur (hr)	End Time	Desc	End Depth (ftKB)	Prob Hrs (hr)	Com
05:15	0.75	06:00	TEST B.O.P	6,701.0		FILL DP EST CIRC & TEST CSG 1500PSI 30 MIN (TEST OK)

Diesel and Nat Gas Supply

Supply Item Des	Type	Received	Consumed	Returned	On Loc
MUD DIESEL		0.0	0.0	0.0	0.0
RIG DIESEL		9,425.0	400.0	0.0	9,025.0

Daily Mud Checks

6,699.0ftKB, 6/1/2024 16:00

Mud Company M-I SWACO			Checked By Mud Engineer			
Time 16:00	Mud Type OBM-MEGADRIL	Depth (ftKB) 6,699.0	MW (lb/gal) 10.6	Funnel Viscosity (s/qt) 57	PV Calc (cP) 18.0	YP Calc (lb/100ft) 10.000
Gel 10 sec (lb/100ft²) 11.000	Gel 10 min (lb/100ft²) 13.000	Gel 30 min (lb/100ft²) 15.000	Filtrate (mL/30min)	Filter Cake (1/32")	pH	
Percent Oil (%) 67.0	Percent Water (%) 18.0	Chlorides (mg/L) 46,000	Calcium (mg/L)	Electric Stab (V) 920.0	Solids (%) 15.0	
Max Background Gas		Max Connection Gas	Max Trip Gas	Max Drill Gas	Max H2S (ppm)	

BOP Pressure Tests

Type BOP Pressure Test	Last Date 6/1/2024	Next Check Date 6/22/2024
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Drill Strings

Drill String Name	BHA #	Drill Bit	Bit Run	Date Pick Up	Date Out of Hole	IADC Bit Dull	TFA (incl Noz) (in²)		
PRODUCTION VERTICAL CURVE BHA	3	8 3/4in, DD306WSX, 5350243	3	6/1/2024		-----	0.66		
Nozzles (1/32")	Depth In (ftKB)	Depth Out (ftKB)	Depth Drilled (ft)	BHA ROP (ft/hr)	String Wt (1000lb)	Max Slack-Off Hds	Max Pick-Up Hook	WOB Max (no exc)	Max RPM (No B)
12/12/12/12/12/12					141	120	140	12	200

Drill String Drilling Parameters

6,701.0 - 6,701.0 ftKB

Start Depth (ftKB) 6,701.0	End Depth (ftKB) 6,701.0	Cum Depth Drilled (ft) 0.00	Drilling Time (hr) 2.00	Cum Drilling Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm) 450	BH Temperature (°F)
Weight on Bit (1000lbf) 12	RPM (rpm) 20	Stand Pipe Pressure (psi) 730.0	Drill Str Wt (1000lbf) 130	PU Str Wt (1000lbf) 140	SO Str Wt (1000lbf) 120	Drilling Torque 6,000.0	Off Bottom Torque 4,000.0

Drill String Components

Type	Item Des	Jts	Len (ft)	ID (in)	OD (in)	Btm Conn Type	Btm Thread
Drill Pipe	5" DRILL PIPE	212	6,700.00	4.76	5	Box	IF
Other	XO SUB	1	3.13	3.25	6 1/2	Pin	IF
Drill Collar	NMDC	1	31.42	3.25	6 1/2	Pin	IF
MWD	TOOL CARRIER	1	17.35	2.75	6 1/2	Pin	IF
Drill Collar	NMPC	1	14.54	3.20	6 1/2	Pin	IF
Drill String Component Mud Motor	6.63" w/ 2.25 FBH, Slick Sleeve, 7.5KP, 5/6 Lobe, 9.4 stg, 40rpg BTB-4.2	1	34.45	2.50	6 1/2	Box	REG

Hydraulic Calculations

Bit Hydraulic Power (hp) 109.2	Bit Hydraulic Power Per Hole Area (hp/in²) 1.8	Bit Jet Velocity (ft/s) 218.8	Bit Pressure Drop (psi) 416.1	Percent of Pressure Drop at Bit (%) 57
Max Casing AV (ft/min) 308.0	Max Open Hole AV (ft/min) 102.3	Min Casing AV (ft/min) 207.9	Min Open Hole AV (ft/min) 102.3	ECD End (lb/gal) 8.40

Error

Wellbore Directional Survey Data

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Note
6,701.00	0.56	52.83	6,675.06	-90.83	121.10	-395.39	0.00	

KOP & LP

Top Depth (ftKB)	Bottom Depth (ftKB)
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Lost Circulation

Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Operation In Progress	Total Lost Volume (bbl)	End Date
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Interval Problems (NPT)

Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Estimated Cost (Cost)	Estimated Lost Time (hr)
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Comment

Well Name: ULANDS 48 3-13 B 441H
Report #: 10, DFS: 6

API/UWI 42383417390000	State/Province TEXAS	County REAGAN	Area WTG	Original KB Elevation (ft) 2,788.00	Ground Elevation (ft) 2,763.00	KB-Ground Distance (ft) 25.00
Target Formation WFMP B LOWER	Target Depth (ftKB) 18,150	Regulatory Spud Date 5/13/2024	Rotary Spud Date 5/13/2024	Rig Release Date		
Start Depth (ftKB) 6,701.0	Current Depth (ftKB) 7,590		Progress (ft) 889			
Last Casing String						
Casing Description Intermediate 1	Csg Size (in) 9 5/8	Weight/Length (lb/ft) 40.00	String Grade J-55	Run Date 5/17/2024	Length (ft) 6,683.51	Csg Depth (ftKB) 6,678
Current Phase						
Phase Type 1 Production	Phase Type 2 Drill - Horizontal	Model Duration (days) 4.25	Planned Start Depth (ftKB) 7,558.0	Planned End Depth (ftKB) 18,150.0	Actual Start Date 6/2/2024 18:30	Actual End Date
Summary						
Weather Clear		Temperature (°F) 77.0		Hole Condition Good		
Operations at Report Time DRILLING 8 1/2 LATERAL @ 7,590'			Operations Next Report Period CONT. DRILL 8 1/2" LATERAL SECTION			
Operations Summary DRILL SHOE TRACK, DRILL 8 3/4" VERTICURVE F. 6,701'-7,516', CIRC ,FLOW CHECK, POOH, L/D CURVE BHA, P/U LATERAL BHA, TIH, DRILL 8 1/2" LATERAL T/ 7,590						
Remarks DAYS FROM SPUD: 6 *NORAM 25 CREWS : DAYS - FULL / NIGHTS - FULL *START 17 1/2" SURFACE @ 01:45 CST ON 5-13-2024 @ 120' *TD 17 1/2 SURFACE @ 07:30 CST ON 5-13-2024 @ 915' **START 12 1/4 INTERMEDIATE ON 5-16-24 AT 04:15.** ** TD 12 1/4 INTERMEDIATE ON 5-17-2024 AT 21:30** ***START 8-3/4" VERTICAL @ 6,701' MD ON 6-2-2024 AT 07:30 HRS *** ***TD 8-3/4" VERTICAL @ 6,793' MD ON 6-2-2024 AT 09:45 HRS *** ****START 8-3/4" CURVE @ 6,793' MD ON 6-2-2024 AT 09:45 HRS**** **** TD 8 3/4 CURVE @ 7,516' MD ON 6-2-0024 AT 18:30HRS**** *****START 8-1/2" LATERAL @ 7,516' MD ON 6-2-2024 AT XX:XX HRS***** BOP TEST : EVERY 21 DAYS LAST BOP TEST : 6/1/24 NEXT BOP TEST: 6/22/2024 RESUME WELL ON 5/15/2024 AT 08:00. PAUSED WELL ON 5/19/24 AT 01:00. REUME WELL ON 6-1-2024 AT 07:30 *NO INCIDENTS ACCIDENTS OR SPILLS.						
Daily Time Log						
Start Time	Dur (hr)	End Time	Desc	End Depth (ftKB)	Prob Hrs (hr)	Com
06:00	1.50	07:30	REAMING	6,701.0		DRILL OUT 9-5/8" SHOE TRACK FROM 6,630' TO 6,678'. WASH AND REAM RAT HOLE FROM 6,678' TO 6,701' (WHILE DISPLACING TO OBM).
07:30	2.25	09:45	DRILL ACTUAL	6,793.0		DRILL 8-3/4" VERTICAL F/ 6,701' T/ 6,793' - WOB 30 - RPM 25 - GPM 625 - SPP 2,820 - DIFF 265 - TQ 7K - OBP 2,550. ***START 8-3/4" VERTICAL @ 6,701' MD @ 07:30 HRS CST ON 6/2/24.*** ***TD 8-3/4" VERTICAL @ 6,793' MD @ 09:45 HRS CST ON 6/2/24.***
09:45	7.00	16:45	DRILL ACTUAL	7,328.0		DRILL 8-3/4" CURVE F/ 6,793' T/ 7,328' - WOB 65 - RPM 25 - GPM 625 - SPP 3,440 - DIFF 730 - TQ 10K - OBP 2,700. ****START 8-3/4" CURVE @ 6,793' MD ON 6-2-2024 AT 09:45 HRS****
16:45	0.50	17:15	LUBRICATE RIG	7,328.0		RIG SERVICE.
17:15	1.25	18:30	DRILL ACTUAL	7,517.0		DRILL 8-3/4" CURVE F/ 7,328' T/ 7,517' - WOB 65 - RPM 25 - GPM 625 - SPP 3,440 - DIFF 730 - TQ 10K - OBP 2,700. **** TD 8 3/4 CURVE @ 7,517' MD ON 6-2-0024 AT 18:30HRS****
18:30	1.00	19:30	COND MUD & CIRC	7,517.0		CIRC BTMS UP & HOLE CLEAN & HS MTR
19:30	0.25	19:45	COND MUD & CIRC	7,517.0		FLOW CHECK (NO FLOW) & PUMP SLUG
19:45	3.50	23:15	TRIPS	7,517.0		POOH F. 7,517'-98' DIR TOOLS (NO ISSUES)

Daily Time Log						
Start Time	Dur (hr)	End Time	Desc	End Depth (ftKB)	Prob Hrs (hr)	Com
23:15	0.50	23:45	DIRECTIONAL WORK	7,517.0		LAY DOWN CURVE BHA DRAIN MTR, PULL MWD, BREAK BIT (BIT GRADED AS FOLLOWS: 1-2-BT-G-X-0-CT-TD) NO SLACK ON MOTOR. CLEAN AND CLEAR RIG FLOOR
23:45	0.75	00:30	DIRECTIONAL WORK	7,517.0		M/U 8 1/2 LATERAL BHA # 4 & M/U 8 1/2 BIT NOV TYPE: DD406THX, S/N:5353572, LOAD MWD TOOL.SCRIBE & TEST SAME (TEST OK), P/U DNR TOOL
00:30	1.00	01:30	TRIPS	7,517.0		TIH F. 99'-2,926' NO ISSUES
01:30	0.50	02:00	TRIPS	7,517.0		P/U AGITATOR @ 2,926' TEST BEFORE (1450PSI) & AFTER (1925PSI) W/ 500 GPM PRESSURE DROP OF 475PSI NOTE: JETS QTY-3 -5/16, QTY 1 -3/8
02:00	2.75	04:45	TRIPS	7,517.0		TIH F. 2,655'-7,492' FILLING DP EVERY 30 STDS NO ISSUES
04:45	0.25	05:00	DIRECTIONAL WORK	7,517.0		RE-LOG F/7,492'-7,516' (24')
05:00	1.00	06:00	DRILL ACTUAL	7,590.0		DRILL 8 1/2" LATERAL F/ 7,516' T/ 7,590', WOB-43, ROT-60, SPP- 4175, DIFF-475 , GPM-650, TQ-14-15K, 100% RETURNS NO LOSSES OBP 3700.

Diesel and Nat Gas Supply

Supply Item Des	Type	Received	Consumed	Returned	On Loc
MUD DIESEL		0.0	0.0	0.0	0.0
RIG DIESEL		7,200.0	1,721.0	0.0	14,504.0

Daily Mud Checks

7,417.0ftKB, 6/2/2024 16:00

Mud Company M-I SWACO				Checked By Mud Engineer		
Time 16:00	Mud Type OBM-MEGADRIL	Depth (ftKB) 7,417.0	MW (lb/gal) 11.2	Funnel Viscosity (s/qt) 55	PV Calc (cP) 18.0	YP Calc (lb/100ft) 12.000
Gel 10 sec (lb/100ft²) 11.000	Gel 10 min (lb/100ft²) 12.000	Gel 30 min (lb/100ft²) 14.000	Filtrate (mL/30min)	Filter Cake (1/32")	pH	
Percent Oil (%) 62.0	Percent Water (%) 20.0	Chlorides (mg/L) 40,000	Calcium (mg/L)	Electric Stab (V) 700.0	Solids (%) 18.0	
Max Background Gas		Max Connection Gas		Max Trip Gas		Max Drill Gas
						Max H2S (ppm)

BOP Pressure Tests

Type BOP Pressure Test	Last Date 6/1/2024	Next Check Date 6/22/2024
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Drill Strings

Drill String Name	BHA #	Drill Bit	Bit Run	Date Pick Up	Date Out of Hole	IADC Bit Dull	TFA (incl Noz) (in²)		
PRODUCTION VERTICAL CURVE BHA	3	8 3/4in, DD306WSX, 5350243	3	6/1/2024	6/2/2024	1-2-BT-G-X-0-CT-TD	0.66		
Nozzles (1/32")	Depth In (ftKB)	Depth Out (ftKB)	Depth Drilled (ft)	BHA ROP (ft/hr)	String Wt (1000lb)	Max Slack-Off Hds	Max Pick-Up Hook	WOB Max (no exc)	Max RPM (No B)
12/12/12/12/12	6,701.0	7,516.0	815.00	77.6	156	120	140	25	265

Drill String Drilling Parameters

6,701.0 - 7,058.0 ftKB

Start Depth (ftKB) 6,701.0	End Depth (ftKB) 7,058.0	Cum Depth Drilled (ft) 357.00	Drilling Time (hr) 5.50	Cum Drilling Time (hr) 5.50	Interval ROP (ft/hr) 64.9	Flow Rate (gpm) 600	BH Temperature (°F)
Weight on Bit (1000lbf) 25	RPM (rpm) 25	Stand Pipe Pressure (psi) 2,500.0	Drill Str Wt (1000lbf) 130	PU Str Wt (1000lbf) 140	SO Str Wt (1000lbf) 120	Drilling Torque 19,000.0	Off Bottom Torque 4,000.0

7,058.0 - 7,516.0 ftKB

Start Depth (ftKB) 7,058.0	End Depth (ftKB) 7,516.0	Cum Depth Drilled (ft) 815.00	Drilling Time (hr) 5.00	Cum Drilling Time (hr) 10.50	Interval ROP (ft/hr) 91.6	Flow Rate (gpm) 600	BH Temperature (°F)
Weight on Bit (1000lbf) 25	RPM (rpm) 25	Stand Pipe Pressure (psi) 2,500.0	Drill Str Wt (1000lbf) 130	PU Str Wt (1000lbf) 140	SO Str Wt (1000lbf) 120	Drilling Torque 19,000.0	Off Bottom Torque 4,000.0

Drill String Components

Type	Item Des	Jts	Len (ft)	ID (in)	OD (in)	Btm Conn Type	Btm Thread
Drill Pipe	5" DRILL PIPE	239	7,492.00	4.76	5	Box	IF
Other	XO SUB	1	3.13	3.25	6 1/2	Pin	IF
Drill Collar	NMDC	1	31.42	3.25	6 1/2	Pin	IF
MWD	TOOL CARRIER	1	17.35	2.75	6 1/2	Pin	IF
Drill Collar	NMPC	1	14.54	3.20	6 1/2	Pin	IF
Drill String Component Mud Motor	6.63" w/ 2.25 FBH, Slick Sleeve, 7.5KP, 5/6 Lobe, 9.4 stg, 40rpg BTB-4.2	1	34.45	2.50	6 1/2	Box	REG

Well Name: ULANDS 48 3-13 B 441H

Report #: 10, DFS: 6

Hydraulic Calculations

Bit Hydraulic Power (hp) 302.1	Bit Hydraulic Power Per Hole Area (hp/in²) 5.0	Bit Jet Velocity (ft/s) 291.7	Bit Pressure Drop (psi) 863.1	Percent of Pressure Drop at Bit (%) 35
Max Casing AV (ft/min) 277.2	Max Open Hole AV (ft/min) 428.6	Min Casing AV (ft/min) 277.2	Min Open Hole AV (ft/min) 117.6	ECD End (lb/gal) 10.60

Error

Drill String Name PRODUCTION LATERAL BHA	BHA # 4	Drill Bit 8 1/2in, DD406THX, 5353572	Bit Run 4	Date Pick Up 6/3/2024	Date Out of Hole	IADC Bit Dull -----	TFA (incl Noz) (in²) 0.84		
Nozzles (1/32") 13/13/13/14/14/14	Depth In (ftKB) 7,516.0	Depth Out (ftKB) 7,590.0	Depth Drilled (ft) 74.00	BHA ROP (ft/hr) 74.0	String Wt (1000lbf) 68	Max Slack-Off Hook 170	Max Pick-Up Hook 200	WOB Max (no exc) 45	Max RPM (No B) 194

Drill String Drilling Parameters

7,516.0 - 7,554.0 ftKB

Start Depth (ftKB) 7,516.0	End Depth (ftKB) 7,554.0	Cum Depth Drilled (ft) 38.00	Drilling Time (hr) 0.50	Cum Drilling Time (hr) 0.50	Interval ROP (ft/hr) 76.0	Flow Rate (gpm) 650	BH Temperature (°F)
Weight on Bit (1000lbf) 45	RPM (rpm) 25	Stand Pipe Pressure (psi) 4,175.0	Drill Str Wt (1000lbf) 180	PU Str Wt (1000lbf) 200	SO Str Wt (1000lbf) 170	Drilling Torque 15,000.0	Off Bottom Torque 4,000.0

7,554.0 - 7,590.0 ftKB

Start Depth (ftKB) 7,554.0	End Depth (ftKB) 7,590.0	Cum Depth Drilled (ft) 74.00	Drilling Time (hr) 0.50	Cum Drilling Time (hr) 1.00	Interval ROP (ft/hr) 72.0	Flow Rate (gpm) 650	BH Temperature (°F)
Weight on Bit (1000lbf) 40	RPM (rpm)	Stand Pipe Pressure (psi) 4,000.0	Drill Str Wt (1000lbf) 180	PU Str Wt (1000lbf) 200	SO Str Wt (1000lbf) 170	Drilling Torque 14,000.0	Off Bottom Torque 4,000.0

Drill String Components

Type	Item Des	Jts	Len (ft)	ID (in)	OD (in)	Btm Conn Type	Btm Thread
Other	AGITATOR	1	28.95	2.88	6 3/8	Pin	IF
Drill Pipe	30 STANDS OF 4 1/2" DP	90	2,724.05	4.28	6 5/8	Pin	IF
Hole Opener	DRILL & REAM	1	8.56	3.50	6 3/4	Pin	IF
Drill Pipe	1 STAND 4-1/2" DRILL PIPE	3	94.63	4.28	6 5/8	Pin	IF
Other	NMDC	1	31.42	3.25	6 1/2	Pin	IF
Drill Collar	GAP SUB / TOOL CARRIER	1	17.35	2.75	6 1/2	Pin	IF
Drill Collar	NMPC	1	14.54	3.25	6 3/4	Pin	IF
Drill String Component Mud Motor	7 3/4" - w/ 1.75FBH, TS, 7/8Lobe, 7.5 Stg , .26 Rpg	1	34.54	2.00	6 3/4	Box	REG

Hydraulic Calculations

Bit Hydraulic Power (hp) 237.2	Bit Hydraulic Power Per Hole Area (hp/in²) 4.2	Bit Jet Velocity (ft/s) 248.3	Bit Pressure Drop (psi) 625.5	Percent of Pressure Drop at Bit (%) 16
Max Casing AV (ft/min) 466.3	Max Open Hole AV (ft/min) 513.9	Min Casing AV (ft/min) 425.8	Min Open Hole AV (ft/min) 150.1	ECD End (lb/gal) 11.30

Error

Wellbore Directional Survey Data

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Note
6,705.00	0.72	67.29	6,679.06	-90.82	121.08	-395.21	0.28	
6,799.00	2.08	162.18	6,773.03	-89.51	119.68	-394.14	2.40	
6,893.00	18.16	174.14	6,865.27	-73.41	103.38	-392.11	17.16	
6,987.00	24.78	173.82	6,952.70	-39.59	69.18	-388.49	7.04	
7,081.00	37.11	175.40	7,033.17	7.98	21.15	-384.08	13.14	
7,175.00	47.03	181.35	7,102.89	70.52	-41.68	-382.61	11.36	
7,268.00	54.68	181.45	7,161.55	142.49	-113.73	-384.37	8.23	
7,363.00	64.78	182.42	7,209.38	224.36	-195.62	-387.17	10.67	
7,457.00	75.30	183.75	7,241.42	312.57	-283.72	-391.96	11.27	
7,494.00	80.34	183.61	7,249.23	348.72	-319.80	-394.28	13.63	
7,554.00	80.34	183.61	7,259.29	407.87	-378.84	-398.00	0.00	

KOP & LP

Top Depth (ftKB)	Bottom Depth (ftKB)
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Lost Circulation

Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Operation In Progress	Total Lost Volume (bbl)	End Date
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Interval Problems (NPT)

Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Estimated Cost (Cost)	Estimated Lost Time (hr)
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Comment

Well Name: ULANDS 48 3-13 B 441H

Report #: 11, DFS: 7

API/UWI 42383417390000	State/Province TEXAS	County REAGAN	Area WTG	Original KB Elevation (ft) 2,788.00	Ground Elevation (ft) 2,763.00	KB-Ground Distance (ft) 25.00
Target Formation WFMP B LOWER	Target Depth (ftKB) 18,150	Regulatory Spud Date 5/13/2024	Rotary Spud Date 5/13/2024	Rig Release Date		
Start Depth (ftKB) 7,590.0	Current Depth (ftKB) 12,000			Progress (ft) 4,410		
Last Casing String						
Casing Description Intermediate 1	Csg Size (in) 9 5/8	Weight/Length (lb/ft) 40.00	String Grade J-55	Run Date 5/17/2024	Length (ft) 6,683.51	Csg Depth (ftKB) 6,678
Current Phase						
Phase Type 1 Production	Phase Type 2 Drill - Horizontal	Model Duration (days) 4.25	Planned Start Depth (ftKB) 7,516.0	Planned End Depth (ftKB) 18,150.0	Actual Start Date 6/2/2024 18:30	Actual End Date
Summary						
Weather Sunny		Temperature (°F) 101.0			Hole Condition Good	
Operations at Report Time DRILLING LATERAL 8 1/2 @ 12,000'				Operations Next Report Period CONT. DRILL 8 1/2" LATERAL SECTION		
Operations Summary DRILL LATERAL F/ 7,590'- T/ 9,522', RIG SERVICE, DRILL F/ 9,522'- T/ 12,000'						

Remarks						
DAYS FROM SPUD: 7						
*NORAM 25 CREWS : DAYS - FULL / NIGHTS - FULL						
*START 17 1/2" SURFACE @ 01:45 CST ON 5-13-2024 @ 120'						
*TD 17 1/2 SURFACE @ 07:30 CST ON 5-13-2024 @ 915'						
START 12 1/4 INTERMEDIATE ON 5-16-24 AT 04:15.						
** TD 12 1/4 INTERMEDIATE ON 5-17-2024 AT 21:30**						
***START 8-3/4" VERTICAL @ 6,701' MD ON 6-2-2024 AT 07:30 HRS ***						
***TD 8-3/4" VERTICAL @ 6,793' MD ON 6-2-2024 AT 09:45 HRS ***						
****START 8-3/4" CURVE @ 6,793' MD ON 6-2-2024 AT 09:45 HRS****						
**** TD 8 3/4 CURVE @ 7,516' MD ON 6-2-0024 AT 18:30HRS****						
*****START 8-1/2" LATERAL @ 7,516' MD ON 6-2-2024 AT 05:00 HRS*****						
BOP TEST : EVERY 21 DAYS						
LAST BOP TEST : 6/1/24						
NEXT BOP TEST: 6/22/2024						
RESUME WELL ON 5/15/2024 AT 08:00.						
PAUSED WELL ON 5/19/24 AT 01:00.						
REUME WELL ON 6-1-2024 AT 07:30						
*NO INCIDENTS ACCIDENTS OR SPILLS.						

Daily Time Log						
Start Time	Dur (hr)	End Time	Desc	End Depth (ftKB)	Prob Hrs (hr)	Com
06:00	10.50	16:30	DRILL ACTUAL	9,522.0		DRILL 8 1/2" LATERAL F/ 7,590' T/ 9,522', WOB-43, ROT-60, SPP- 4,260, DIFF-660 , GPM-650, TQ-17K, 100% RETURNS NO LOSSES OBP 3,825.
16:30	0.50	17:00	LUBRICATE RIG	9,522.0		RIG SERVICE.
17:00	13.00	06:00	DRILL ACTUAL	12,000.0		DRILL 8 1/2" LATERAL F/ 9,522' T/ 12,000', WOB-44, ROT-60, SPP- 4,750, DIFF-850 , GPM-650, TQ-20K, 100% RETURNS NO LOSSES OBP 3,825.

Diesel and Nat Gas Supply					
Supply Item Des	Type	Received	Consumed	Returned	On Loc
MUD DIESEL		7,200.0	18,286.0	0.0	7,114.0
RIG DIESEL		0.0	3,079.0	0.0	11,425.0

Daily Mud Checks						
9,370.0ftKB, 6/3/2024 16:00						
Mud Company M-I SWACO			Checked By Mud Engineer			
Time 16:00	Mud Type OBM-MEGADRIL	Depth (ftKB) 9,370.0	MW (lb/gal) 11.1	Funnel Viscosity (s/qt) 48	PV Calc (cP) 16.0	YP Calc (lb/100ft²) 13.000
Gel 10 sec (lb/100ft²) 10.000	Gel 10 min (lb/100ft²) 14.000	Gel 30 min (lb/100ft²) 16.000	Filtrate (mL/30min)	Filter Cake (1/32")	pH	
Percent Oil (%) 64.5	Percent Water (%) 17.5	Chlorides (mg/L) 40,000	Calcium (mg/L)	Electric Stab (V) 821.0	Solids (%) 18.0	
Max Background Gas 1,800.00	Max Connection Gas 1,900.00	Max Trip Gas	Max Drill Gas	Max H2S (ppm)		

BOP Pressure Tests						
Type BOP Pressure Test	Last Date 6/1/2024			Next Check Date 6/22/2024		

Drill Strings

Drill String Name PRODUCTION LATERAL BHA	BHA # 4	Drill Bit 8 1/2in, DD406THX, 5353572	Bit Run 4	Date Pick Up 6/3/2024	Date Out of Hole	IADC Bit Dull -----	TFA (incl Noz) (in²) 0.84		
Nozzles (1/32") 13/13/13/14/14/14	Depth In (ftKB) 7,516.0	Depth Out (ftKB) 12,000.0	Depth Drilled (ft) 4,484.00	BHA ROP (ft/hr) 184.9	String Wt (1000lbf) 298	Max Slack-Off Hook 170	Max Pick-Up Hook 200	WOB Max (no exc) 45	Max RPM (No B) 229

Drill String Drilling Parameters

7,590.0 - 7,782.0 ftKB

Start Depth (ftKB) 7,590.0	End Depth (ftKB) 7,782.0	Cum Depth Drilled (ft) 266.00	Drilling Time (hr) 5.00	Cum Drilling Time (hr) 6.00	Interval ROP (ft/hr) 38.4	Flow Rate (gpm) 650	BH Temperature (°F)
Weight on Bit (1000lbf) 40	RPM (rpm)	Stand Pipe Pressure (psi) 4,075.0	Drill Str Wt (1000lbf) 180	PU Str Wt (1000lbf) 200	SO Str Wt (1000lbf) 170	Drilling Torque 14,000.0	Off Bottom Torque 4,000.0

7,782.0 - 12,000.0 ftKB

Start Depth (ftKB) 7,782.0	End Depth (ftKB) 12,000.0	Cum Depth Drilled (ft) 4,484.00	Drilling Time (hr) 18.25	Cum Drilling Time (hr) 24.25	Interval ROP (ft/hr) 231.1	Flow Rate (gpm) 650	BH Temperature (°F)
Weight on Bit (1000lbf) 45	RPM (rpm) 60	Stand Pipe Pressure (psi) 4,750.0	Drill Str Wt (1000lbf) 180	PU Str Wt (1000lbf) 200	SO Str Wt (1000lbf) 170	Drilling Torque 20,000.0	Off Bottom Torque 8,000.0

Drill String Components

Type	Item Des	Jts	Len (ft)	ID (in)	OD (in)	Btm Conn Type	Btm Thread
Drill Pipe	5" DP	375	11,770.00	4.28	6 5/8	Pin	IF
Other	AGITATOR	1	28.95	2.88	6 3/8	Pin	IF
Drill Pipe	29 STANDS OF 5" DP	90	2,724.05	4.28	6 5/8	Pin	IF
Hole Opener	DRILL & REAM	1	8.56	3.50	6 3/4	Pin	IF
Drill Pipe	1 STAND 4-1/2" DRILL PIPE	3	94.63	4.28	6 5/8	Pin	IF
Other	NMDC	1	31.42	3.25	6 1/2	Pin	IF
Drill Collar	GAP SUB / TOOL CARRIER	1	17.35	2.75	6 1/2	Pin	IF
Drill Collar	NMPC	1	14.54	3.25	6 3/4	Pin	IF
Drill String Component Mud Motor	7 3/4" - w/ 1.75FBH, TS, 7/8Lobe, 7.5 Stg , .26 Rpg	1	34.54	2.00	6 3/4	Box	REG

Hydraulic Calculations

Bit Hydraulic Power (hp) 235.1	Bit Hydraulic Power Per Hole Area (hp/in²) 4.1	Bit Jet Velocity (ft/s) 248.3	Bit Pressure Drop (psi) 619.9	Percent of Pressure Drop at Bit (%) 13
Max Casing AV (ft/min) 466.3	Max Open Hole AV (ft/min) 513.9	Min Casing AV (ft/min) 466.3	Min Open Hole AV (ft/min) 150.1	ECD End (lb/gal) 11.30

Error

Wellbore Directional Survey Data

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Note
7,682.00	91.40	183.98	7,260.29	536.10	-506.65	-408.26	4.35	
7,777.00	91.33	184.04	7,258.03	631.07	-601.39	-414.90	0.10	
7,871.00	92.07	180.88	7,255.24	724.96	-695.25	-418.93	3.45	
7,964.00	91.95	180.43	7,251.98	817.71	-788.19	-419.99	0.50	
8,058.00	91.52	180.56	7,249.13	911.46	-882.14	-420.80	0.48	
8,149.00	90.62	180.73	7,247.43	1,002.25	-973.12	-421.83	1.01	
8,243.00	90.25	180.75	7,246.72	1,096.06	-1,067.11	-423.04	0.39	
8,338.00	89.56	180.80	7,246.87	1,190.88	-1,162.10	-424.33	0.73	
8,432.00	88.78	180.30	7,248.24	1,284.66	-1,256.09	-425.23	0.99	
8,525.00	90.62	182.17	7,248.72	1,377.52	-1,349.05	-427.23	2.82	
8,618.00	89.95	181.91	7,248.26	1,470.44	-1,441.99	-430.54	0.77	
8,711.00	91.50	181.70	7,247.08	1,563.34	-1,534.94	-433.47	1.68	
8,805.00	90.75	181.00	7,245.24	1,657.19	-1,628.89	-435.69	1.09	
8,900.00	90.56	181.29	7,244.15	1,752.04	-1,723.87	-437.59	0.36	
8,994.00	90.22	181.16	7,243.51	1,845.90	-1,817.84	-439.60	0.39	
9,088.00	89.67	180.48	7,243.60	1,939.72	-1,911.83	-440.94	0.93	
9,182.00	89.04	180.43	7,244.66	2,033.50	-2,005.82	-441.69	0.67	
9,275.00	88.37	180.58	7,246.76	2,126.26	-2,098.80	-442.51	0.74	
9,369.00	89.62	181.10	7,248.41	2,220.07	-2,192.77	-443.88	1.44	
9,462.00	92.71	181.26	7,246.52	2,312.90	-2,285.72	-445.80	3.33	
9,556.00	91.72	180.64	7,242.89	2,406.66	-2,379.63	-447.36	1.24	
9,649.00	91.55	182.02	7,240.23	2,499.50	-2,472.57	-449.51	1.49	
9,743.00	90.92	180.32	7,238.21	2,593.33	-2,566.52	-451.43	1.93	
9,837.00	90.39	179.78	7,237.13	2,687.06	-2,660.52	-451.51	0.80	
9,931.00	90.99	180.09	7,236.00	2,780.77	-2,754.51	-451.41	0.72	
10,025.00	86.24	179.89	7,238.27	2,874.45	-2,848.45	-451.39	5.06	
10,119.00	87.09	180.32	7,243.74	2,968.03	-2,942.29	-451.56	1.01	
10,213.00	86.51	179.87	7,248.99	3,061.62	-3,036.15	-451.72	0.78	
10,306.00	88.07	181.09	7,253.38	3,154.30	-3,129.03	-452.50	2.13	
10,401.00	91.13	181.53	7,254.05	3,249.16	-3,224.00	-454.67	3.25	
10,494.00	91.12	181.73	7,252.22	3,342.04	-3,316.94	-457.31	0.22	
10,588.00	90.93	182.43	7,250.54	3,435.95	-3,410.86	-460.73	0.77	

Well Name: ULANDS 48 3-13 B 441H

Rig: NorAm 25

Report #: 11, DFS: 7

Wellbore Directional Survey Data								
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Note
10,681.00	90.27	182.91	7,249.57	3,528.90	-3,503.76	-465.06	0.88	
10,775.00	89.67	183.42	7,249.62	3,622.88	-3,597.61	-470.25	0.84	
10,868.00	89.30	183.53	7,250.45	3,715.87	-3,690.44	-475.88	0.42	
10,961.00	89.31	183.92	7,251.58	3,808.85	-3,783.23	-481.93	0.42	
11,055.00	88.36	183.67	7,253.49	3,902.83	-3,877.01	-488.15	1.05	
11,149.00	91.30	181.02	7,253.77	3,996.75	-3,970.91	-491.99	4.21	
11,243.00	90.76	180.98	7,252.08	4,090.58	-4,064.88	-493.63	0.58	
11,337.00	90.13	180.96	7,251.35	4,184.41	-4,158.86	-495.22	0.67	
11,431.00	89.78	181.76	7,251.42	4,278.28	-4,252.83	-497.45	0.93	
11,525.00	89.55	181.97	7,251.97	4,372.20	-4,346.78	-500.51	0.33	
11,619.00	89.08	181.20	7,253.10	4,466.08	-4,440.74	-503.11	0.96	
11,713.00	90.50	177.43	7,253.44	4,559.70	-4,534.71	-501.99	4.29	
11,808.00	90.30	178.11	7,252.78	4,654.07	-4,629.64	-498.29	0.75	
11,868.00	90.30	178.11	7,252.46	4,713.72	-4,689.60	-496.31	0.00	

KOP & LP	
Top Depth (ftKB) 6,793.0	Bottom Depth (ftKB) 7,517.0

Lost Circulation					
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Operation In Progress	Total Lost Volume (bbl)	End Date

Interval Problems (NPT)						
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Estimated Cost (Cost)	Estimated Lost Time (hr)
Comment						

Well Name: ULANDS 48 3-13 B 441H

Report #: 12, DFS: 8

API/UWI 42383417390000	State/Province TEXAS	County REAGAN	Area WTG	Original KB Elevation (ft) 2,788.00	Ground Elevation (ft) 2,763.00	KB-Ground Distance (ft) 25.00
Target Formation WFMP B LOWER		Target Depth (ftKB) 18,150	Regulatory Spud Date 5/13/2024		Rotary Spud Date 5/13/2024	Rig Release Date
Start Depth (ftKB) 12,000.0		Current Depth (ftKB) 16,020			Progress (ft) 4,020	
Last Casing String						
Casing Description Intermediate 1	Csg Size (in) 9 5/8	Weight/Length (lb/ft) 40.00	String Grade J-55	Run Date 5/17/2024	Length (ft) 6,683.51	Csg Depth (ftKB) 6,678
Current Phase						
Phase Type 1 Production	Phase Type 2 Drill - Horizontal	Model Duration (days) 4.25	Planned Start Depth (ftKB) 7,516.0	Planned End Depth (ftKB) 18,150.0	Actual Start Date 6/2/2024 18:30	Actual End Date
Summary						
Weather Sunny		Temperature (°F) 103.0			Hole Condition Good	
Operations at Report Time DRILLING LATERAL 8 1/2" @ 16,020'				Operations Next Report Period CONT. DRILL 8 1/2" LATERAL SECTION		
Operations Summary DRILL LATERAL F/ 12,000'- T/ 13,654', RIG SERVICE, DRILL F/ 13,654'- T/ 16,020'						

Remarks
DAYS FROM SPUD: 8
*NORAM 25 CREWS : DAYS - FULL / NIGHTS - FULL
*START 17 1/2" SURFACE @ 01:45 CST ON 5-13-2024 @ 120'
*TD 17 1/2 SURFACE @ 07:30 CST ON 5-13-2024 @ 915'
START 12 1/4 INTERMEDIATE ON 5-16-24 AT 04:15.
** TD 12 1/4 INTERMEDIATE ON 5-17-2024 AT 21:30**
***START 8-3/4" VERTICAL @ 6,701' MD ON 6-2-2024 AT 07:30 HRS ***
***TD 8-3/4" VERTICAL @ 6,793' MD ON 6-2-2024 AT 09:45 HRS ***
****START 8-3/4" CURVE @ 6,793' MD ON 6-2-2024 AT 09:45 HRS****
**** TD 8 3/4 CURVE @ 7,516' MD ON 6-2-0024 AT 18:30HRS****
*****START 8-1/2" LATERAL @ 7,516' MD ON 6-2-2024 AT 05:00 HRS*****
BOP TEST : EVERY 21 DAYS
LAST BOP TEST : 6/1/24
NEXT BOP TEST: 6/22/2024
RESUME WELL ON 5/15/2024 AT 08:00.
PAUSED WELL ON 5/19/24 AT 01:00.
RESUME WELL ON 6-1-2024 AT 07:30
*NO INCIDENTS ACCIDENTS OR SPILLS.

Daily Time Log

Start Time	Dur (hr)	End Time	Desc	End Depth (ftKB)	Prob Hrs (hr)	Com
06:00	11.00	17:00	DRILL ACTUAL	13,654.0		DRILL 8 1/2" LATERAL F/ 12,000' T/ 13,654', WOB-44, ROT-60, SPP- 5,000, DIFF-665 , GPM-650, TQ-20K, 100% RETURNS NO LOSSES OBP 4,325.
17:00	0.50	17:30	LUBRICATE RIG	13,654.0		RIG SERVICE.
17:30	10.00	03:30	DRILL ACTUAL	15,752.0		DRILL 8 1/2" LATERAL F/ 13,654' T/ 15,752', WOB-44, ROT-60, SPP- 5,360, DIFF-700 , GPM-650, TQ-22K, 100% RETURNS NO LOSSES OBP 4,600.
03:30	0.25	03:45	COND MUD & CIRC	15,752.0		CIRC W/ MP# 3 289GPM W/ 1480PSI WHILE CHANGING OUT SWAB ON MP# 1 & WORKING ON MP#2 2" WASHED OUT
03:45	2.25	06:00	DRILL ACTUAL	16,020.0		DRILL 8 1/2" LATERAL F/ 15,752' T/ 16,020', WOB-44, ROT-60, SPP- 5,360, DIFF-700 , GPM-650, TQ-22K, 100% RETURNS NO LOSSES OBP 4,600.

Diesel and Nat Gas Supply

Supply Item Des	Type	Received	Consumed	Returned	On Loc
MUD DIESEL		21,401.0	14,571.0	0.0	13,944.0
RIG DIESEL		0.0	3,705.0	0.0	7,720.0

Daily Mud Checks

13,568.0ftKB, 6/4/2024 16:00

Mud Company M-I SWACO			Checked By Mud Engineer			
Time 16:00	Mud Type OBM-MEGADRIL	Depth (ftKB) 13,568.0	MW (lb/gal) 11.2	Funnel Viscosity (s/qt) 45	PV Calc (cP) 16.0	YP Calc (lbf/100ft) 12.000
Gel 10 sec (lbf/100ft²) 9.000	Gel 10 min (lbf/100ft²) 11.000	Gel 30 min (lbf/100ft²) 13.000	Filterate (mL/30min)	Filter Cake (1/32")	pH	
Percent Oil (%) 64.5	Percent Water (%) 17.5	Chlorides (mg/L) 40,000	Calcium (mg/L)	Electric Stab (V) 840.0	Solids (%) 18.0	
Max Background Gas 1,800.00		Max Connection Gas 1,900.00	Max Trip Gas	Max Drill Gas	Max H2S (ppm)	

BOP Pressure Tests												
Type BOP Pressure Test				Last Date 6/1/2024				Next Check Date 6/22/2024				
Drill Strings												
Drill String Name PRODUCTION LATERAL BHA		BHA # 4	Drill Bit 8 1/2in, DD406THX, 5353572		Bit Run 4	Date Pick Up 6/3/2024		Date Out of Hole		IADC Bit Dull -----	TFA (incl Noz) (in²) 0.84	
Nozzles (1/32") 13/13/13/14/14/14			Depth In (ftKB) 7,516.0	Depth Out (ftKB) 16,056.0	Depth Drilled (ft) 8,504.00	BHA ROP (ft/hr) 179.0	String Wt (1000lbf) 376	Max Slack-Off Hook 170	Max Pick-Up Hook 200	WOB Max (no exc) 45	Max RPM (No B) 229	
Drill String Drilling Parameters												
12,000.0 - 16,056.0 ftKB												
Start Depth (ftKB) 12,000.0		End Depth (ftKB) 16,056.0		Cum Depth Drilled (ft) 8,540.00		Drilling Time (hr) 20.50		Cum Drilling Time (hr) 44.75		Interval ROP (ft/hr) 197.9	Flow Rate (gpm) 650	BH Temperature (°F)
Weight on Bit (1000lbf) 45		RPM (rpm) 60		Stand Pipe Pressure (psi) 5,250.0		Drill Str Wt (1000lbf) 180		PU Str Wt (1000lbf) 200		SO Str Wt (1000lbf) 170	Drilling Torque 21.0	Off Bottom Torque 8,000.0
16,056.0 - 16,020.0 ftKB												
Start Depth (ftKB) 16,056.0		End Depth (ftKB) 16,020.0		Cum Depth Drilled (ft) 8,504.00		Drilling Time (hr) 2.75		Cum Drilling Time (hr) 47.50		Interval ROP (ft/hr) -13.1	Flow Rate (gpm) 650	BH Temperature (°F)
Weight on Bit (1000lbf) 40		RPM (rpm)		Stand Pipe Pressure (psi) 4,575.0		Drill Str Wt (1000lbf) 180		PU Str Wt (1000lbf) 200		SO Str Wt (1000lbf) 170	Drilling Torque 14,000.0	Off Bottom Torque 4,000.0
Drill String Components												
Type		Item Des				Jts	Len (ft)	ID (in)	OD (in)	Btm Conn Type	Btm Thread	
Drill Pipe		5" DP				504	15,792.00	4.28	6 5/8	Pin	IF	
Other		AGITATOR				1	28.95	2.88	6 3/8	Pin	IF	
Drill Pipe		29 STANDS OF 5" DP				90	2,724.05	4.28	6 5/8	Pin	IF	
Hole Opener		DRILL & REAM				1	8.56	3.50	6 3/4	Pin	IF	
Drill Pipe		1 STAND 4-1/2" DRILL PIPE				3	94.63	4.28	6 5/8	Pin	IF	
Other		NMDC				1	31.42	3.25	6 1/2	Pin	IF	
Drill Collar		GAP SUB / TOOL CARRIER				1	17.35	2.75	6 1/2	Pin	IF	
Drill Collar		NMPC				1	14.54	3.25	6 3/4	Pin	IF	
Drill String Component Mud Motor		7 3/4" - w/ 1.75FBH, TS, 7/8Lobe, 7.5 Stg , .26 Rpg				1	34.54	2.00	6 3/4	Box	REG	
Hydraulic Calculations												
Bit Hydraulic Power (hp) 237.2		Bit Hydraulic Power Per Hole Area (hp/in²) 4.2				Bit Jet Velocity (ft/s) 248.3			Bit Pressure Drop (psi) 625.5		Percent of Pressure Drop at Bit (%) 14	
Max Casing AV (ft/min) 466.3		Max Open Hole AV (ft/min) 513.9				Min Casing AV (ft/min) 466.3			Min Open Hole AV (ft/min) 150.1		ECD End (lb/gal) 11.30	
Error												
Wellbore Directional Survey Data												
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Note				
12,090.00	90.82	177.79	7,244.87	4,934.55	-4,911.43	-491.62	1.23					
12,183.00	93.11	182.52	7,241.68	5,027.21	-5,004.34	-491.87	5.65					
12,278.00	91.04	181.96	7,238.24	5,122.08	-5,099.20	-495.58	2.26					
12,371.00	90.67	181.70	7,236.85	5,214.98	-5,192.14	-498.55	0.49					
12,464.00	89.36	181.66	7,236.83	5,307.88	-5,285.10	-501.27	1.41					
12,558.00	88.67	181.71	7,238.45	5,401.76	-5,379.04	-504.04	0.74					
12,652.00	88.76	181.34	7,240.55	5,495.62	-5,472.99	-506.54	0.40					
12,745.00	87.97	181.59	7,243.21	5,588.47	-5,565.92	-508.91	0.89					
12,839.00	90.52	181.07	7,244.45	5,682.32	-5,659.87	-511.10	2.77					
12,933.00	90.36	180.55	7,243.72	5,776.14	-5,753.86	-512.42	0.58					
13,027.00	90.07	180.16	7,243.37	5,869.91	-5,847.86	-513.01	0.52					
13,120.00	89.88	180.19	7,243.41	5,962.67	-5,940.86	-513.29	0.21					
13,214.00	89.50	180.23	7,243.92	6,056.42	-6,034.86	-513.64	0.41					
13,309.00	88.65	179.47	7,245.45	6,151.12	-6,129.84	-513.39	1.20					
13,402.00	87.40	178.26	7,248.66	6,243.63	-6,222.77	-511.55	1.87					
13,497.00	87.54	180.60	7,252.85	6,338.19	-6,317.66	-510.60	2.47					
13,591.00	91.69	182.16	7,253.48	6,432.03	-6,411.61	-512.87	4.72					
13,685.00	91.75	182.22	7,250.66	6,525.93	-6,505.50	-516.46	0.09					
13,779.00	91.02	181.85	7,248.39	6,619.82	-6,599.41	-519.79	0.87					
13,872.00	90.35	182.10	7,247.28	6,712.74	-6,692.35	-523.00	0.77					
13,966.00	89.73	181.62	7,247.21	6,806.65	-6,786.30	-526.05	0.83					
14,060.00	89.92	181.60	7,247.50	6,900.54	-6,880.26	-528.69	0.20					
14,154.00	89.68	181.26	7,247.83	6,994.42	-6,974.23	-531.04	0.44					
14,249.00	89.39	180.82	7,248.60	7,089.26	-7,069.21	-532.76	0.55					
14,342.00	89.45	180.81	7,249.54	7,182.08	-7,162.20	-534.08	0.07					
14,436.00	89.36	181.46	7,250.52	7,275.92	-7,256.17	-535.94	0.70					
14,529.00	88.33	180.78	7,252.39	7,368.76	-7,349.13	-537.76	1.33					
14,624.00	87.16	179.28	7,256.13	7,463.41	-7,444.06	-537.81	2.00					
14,718.00	90.18	182.87	7,258.31	7,557.21	-7,537.99	-539.58	4.99					

Well Name: ULANDS 48 3-13 B 441H

Rig: NorAm 25

Report #: 12, DFS: 8

Wellbore Directional Survey Data								
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Note
14,812.00	90.18	183.35	7,258.02	7,651.18	-7,631.85	-544.68	0.51	
14,905.00	90.53	182.34	7,257.44	7,744.15	-7,724.73	-549.29	1.15	
15,000.00	90.21	180.89	7,256.83	7,839.04	-7,819.69	-551.97	1.56	
15,094.00	88.84	181.79	7,257.61	7,932.90	-7,913.66	-554.17	1.74	
15,188.00	88.74	181.33	7,259.59	8,026.77	-8,007.60	-556.73	0.50	
15,282.00	89.16	181.30	7,261.31	8,120.62	-8,101.56	-558.88	0.45	
15,376.00	89.50	181.28	7,262.41	8,214.48	-8,195.53	-561.00	0.36	
15,469.00	90.30	181.95	7,262.58	8,307.38	-8,288.49	-563.62	1.12	
15,564.00	90.75	182.39	7,261.71	8,402.30	-8,383.42	-567.22	0.66	
15,657.00	90.93	182.66	7,260.34	8,495.25	-8,476.32	-571.31	0.35	
15,751.00	90.18	182.09	7,259.43	8,589.19	-8,570.23	-575.21	1.00	
15,845.00	88.42	181.29	7,260.58	8,683.07	-8,664.18	-577.98	2.06	
15,940.00	87.97	180.90	7,263.57	8,777.87	-8,759.11	-579.80	0.63	
16,000.00	87.97	180.90	7,265.70	8,837.73	-8,819.07	-580.74	0.00	

KOP & LP	
Top Depth (ftKB) 6,793.0	Bottom Depth (ftKB) 7,517.0

Lost Circulation					
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Operation In Progress	Total Lost Volume (bbl)	End Date

Interval Problems (NPT)						
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Estimated Cost (Cost)	Estimated Lost Time (hr)
Comment						

Well Name: ULANDS 48 3-13 B 441H

Report #: 13, DFS: 9

API/UWI 42383417390000	State/Province TEXAS	County REAGAN	Area WTG	Original KB Elevation (ft) 2,788.00	Ground Elevation (ft) 2,763.00	KB-Ground Distance (ft) 25.00
Target Formation WFMP B LOWER	Target Depth (ftKB) 18,150	Regulatory Spud Date 5/13/2024	Rotary Spud Date 5/13/2024	Rig Release Date		
Start Depth (ftKB) 16,020.0	Current Depth (ftKB) 18,162	Progress (ft) 2,142				
Last Casing String						
Casing Description Intermediate 1	Csg Size (in) 9 5/8	Weight/Length (lb/ft) 40.00	String Grade J-55	Run Date 5/17/2024	Length (ft) 6,683.51	Csg Depth (ftKB) 6,678
Current Phase						
Phase Type 1 Production	Phase Type 2 Casing and Cement	Model Duration (days) 1.84	Planned Start Depth (ftKB) 18,150.0	Planned End Depth (ftKB) 18,150.0	Actual Start Date 6/6/2024 02:00	Actual End Date
Summary						
Weather Clear		Temperature (°F) 82.0			Hole Condition Good	
Operations at Report Time POOH @ 14,832'				Operations Next Report Period POOH, L/D BHA,M/U CURVE BHA RACK, PULL WB, RUN 5 1/2 PRODUCTION		
Operations Summary DRILL LATERAL F/ 16,020'- T/ 16,937', RIG SERVICE, DRILL F/ 16,937'- T/ 18,162' TD DEPTH, PERFORM CUC,POOH T/ 17,232, FLOW CHECK,PUMP SLUG, POOH @ 14,838'						
Remarks DAYS FROM SPUD: 9 *NORAM 25 CREWS : DAYS - FULL / NIGHTS - FULL *START 17 1/2" SURFACE @ 01:45 CST ON 5-13-2024 @ 120' *TD 17 1/2 SURFACE @ 07:30 CST ON 5-13-2024 @ 915' **START 12 1/4 INTERMEDIATE ON 5-16-24 AT 04:15.** ** TD 12 1/4 INTERMEDIATE ON 5-17-2024 AT 21:30** ***START 8-3/4" VERTICAL @ 6,701' MD ON 6-2-2024 AT 07:30 HRS *** ***TD 8-3/4" VERTICAL @ 6,793' MD ON 6-2-2024 AT 09:45 HRS *** ****START 8-3/4" CURVE @ 6,793' MD ON 6-2-2024 AT 09:45 HRS**** **** TD 8 3/4 CURVE @ 7,516' MD ON 6-2-0024 AT 18:30HRS**** *****START 8-1/2" LATERAL @ 7,516' MD ON 6-2-2024 AT 05:00 HRS***** *****TD 8 1/2" LATERAL @ 18,162'MD ON 6-6-2024 AT 02:00HRS ***** BOP TEST : EVERY 21 DAYS LAST BOP TEST : 6/1/24 NEXT BOP TEST: 6/22/2024 RESUME WELL ON 5/15/2024 AT 08:00. PAUSED WELL ON 5/19/24 AT 01:00. RESUME WELL ON 6-1-2024 AT 07:30 *NO INCIDENTS ACCIDENTS OR SPILLS.						
Daily Time Log						
Start Time	Dur (hr)	End Time	Desc	End Depth (ftKB)	Prob Hrs (hr)	Com
06:00	11.00	17:00	DRILL ACTUAL	16,937.0		DRILL 8 1/2" LATERAL F/ 16,020' T/ 16,937', WOB-44, ROT-60, SPP- 5,250, DIFF-700 , GPM-630, TQ-22-24K, 100% RETURNS NO LOSSES OBP 4,650.
17:00	0.50	17:30	LUBRICATE RIG	16,937.0		SERVICE RIG AND TDU
17:30	8.50	02:00	DRILL ACTUAL	18,162.0		DRILL 8 1/2" LATERAL F/ 16,937' T/ 18,162' (TD), WOB-44, ROT-60, SPP- 5,250, DIFF-700 , GPM-630, TQ-22-24K, 100% RETURNS NO LOSSES OBP 4,650. *****TD 8 1/2" LATERAL @ 18,162'MD ON 6-6-2024 AT 02:00HRS ***** DFS=8.9
02:00	0.75	02:45	COND MUD & CIRC	18,162.0		PERFORM CLEAN UP CYCLE, PUMP 40BBLs WEIGHTED SWEEP W/650 GPM W/90 RPM'S, WORKING 90'
02:45	0.50	03:15	COND MUD & CIRC	18,162.0		LOST 600PSI CHECK SURFACE EQUIPMENT FOUND 2" ON JET LINE WASHED CHANGED OUT SAME
03:15	1.25	04:30	COND MUD & CIRC	18,162.0		CONTINUE PERFORM CLEAN UP CYCLE, W/650 GPM W/90 RPM'S, WORKING 90' (SHAKERS CLEAN)
04:30	0.50	05:00	TRIPS	18,162.0		POOH 10 STANDS WET F. 18,162'-17,232' NO ISSUES
05:00	0.25	05:15	COND MUD & CIRC	18,162.0		FLOW CHECK (WELL STATIC) PUMP SLUG
05:15	0.50	05:45	TRIPS	18,162.0		POOH F. 17,232'-14,832' NO ISSUES, HOLE TAKING PROPER FILL
Diesel and Nat Gas Supply						
Supply Item Des	Type	Received	Consumed	Returned	On Loc	
MUD DIESEL		0.0	6,455.0	0.0	7,489.0	
RIG DIESEL		7,001.0	3,843.0	0.0	10,878.0	

Well Name: ULANDS 48 3-13 B 441H

Report #: 13, DFS: 9

Daily Mud Checks

17,050.0ftKB, 6/5/2024 18:15

Mud Company M-I SWACO			Checked By Mud Engineer			
Time 18:15	Mud Type OBM-MEGADRIL	Depth (ftKB) 17,050.0	MW (lb/gal) 11.3	Funnel Viscosity (s/qt) 47	PV Calc (cP) 14.0	YP Calc (lb/100ft) 13.000
Gel 10 sec (lb/100ft²) 9.000	Gel 10 min (lb/100ft²) 12.000	Gel 30 min (lb/100ft²) 14.000	Filtrate (mL/30min)	Filter Cake (1/32")	pH	
Percent Oil (%) 65.0	Percent Water (%) 15.5	Chlorides (mg/L) 32,500	Calcium (mg/L)	Electric Stab (V) 741.0	Solids (%) 19.5	
Max Background Gas		Max Connection Gas	Max Trip Gas		Max Drill Gas	Max H2S (ppm)

BOP Pressure Tests

Type BOP Pressure Test	Last Date 6/1/2024	Next Check Date 6/22/2024
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Drill Strings

Drill String Name PRODUCTION LATERAL BHA	BHA # 4	Drill Bit 8 1/2in, DD406THX, 5353572	Bit Run 4	Date Pick Up 6/3/2024	Date Out of Hole	IADC Bit Dull -----	TFA (incl Noz) (in²) 0.84		
Nozzles (1/32") 13/13/13/14/14/14	Depth In (ftKB) 7,516.0	Depth Out (ftKB) 18,162.0	Depth Drilled (ft) 10,646.00	BHA ROP (ft/hr) 163.8	String Wt (1000lb) 418	Max Slack-Off Hds 170	Max Pick-Up Hook 200	WOB Max (no exc) 45	Max RPM (No B) 229

Drill String Drilling Parameters

16,020.0 - 18,040.0 ftKB

Start Depth (ftKB) 16,020.0	End Depth (ftKB) 18,040.0	Cum Depth Drilled (ft) 10,524.00	Drilling Time (hr) 9.75	Cum Drilling Time (hr) 57.25	Interval ROP (ft/hr) 207.2	Flow Rate (gpm) 630	BH Temperature (°F)
Weight on Bit (1000lbf) 40	RPM (rpm)	Stand Pipe Pressure (psi) 4,880.0	Drill Str Wt (1000lbf) 180	PU Str Wt (1000lbf) 200	SO Str Wt (1000lbf) 170	Drilling Torque 14,000.0	Off Bottom Torque 4,000.0

18,040.0 - 18,162.0 ftKB

Start Depth (ftKB) 18,040.0	End Depth (ftKB) 18,162.0	Cum Depth Drilled (ft) 10,646.00	Drilling Time (hr) 7.75	Cum Drilling Time (hr) 65.00	Interval ROP (ft/hr) 15.7	Flow Rate (gpm) 630	BH Temperature (°F)
Weight on Bit (1000lbf) 45	RPM (rpm) 60	Stand Pipe Pressure (psi) 5,600.0	Drill Str Wt (1000lbf) 180	PU Str Wt (1000lbf) 200	SO Str Wt (1000lbf) 170	Drilling Torque 24,000.0	Off Bottom Torque 8,000.0

Drill String Components

Type	Item Des	Jts	Len (ft)	ID (in)	OD (in)	Btm Conn Type	Btm Thread
Drill Pipe	5" DP	572	17,932.00	4.28	6 5/8	Pin	IF
Other	AGITATOR	1	28.95	2.88	6 3/8	Pin	IF
Drill Pipe	29 STANDS OF 5" DP	90	2,724.05	4.28	6 5/8	Pin	IF
Hole Opener	DRILL & REAM	1	8.56	3.50	6 3/4	Pin	IF
Drill Pipe	1 STAND 4-1/2" DRILL PIPE	3	94.63	4.28	6 5/8	Pin	IF
Other	NMDC	1	31.42	3.25	6 1/2	Pin	IF
Drill Collar	GAP SUB / TOOL CARRIER	1	17.35	2.75	6 1/2	Pin	IF
Drill Collar	NMPC	1	14.54	3.25	6 3/4	Pin	IF
Drill String Component Mud Motor	7 3/4" - w/ 1.75FBH, TS, 7/8Lobe, 7.5 Stg , .26 Rpg	1	34.54	2.00	6 3/4	Box	REG

Hydraulic Calculations

Bit Hydraulic Power (hp) 216.9	Bit Hydraulic Power Per Hole Area (hp/in²) 3.8	Bit Jet Velocity (ft/s) 240.7	Bit Pressure Drop (psi) 590.2	Percent of Pressure Drop at Bit (%) 11
Max Casing AV (ft/min) 451.9	Max Open Hole AV (ft/min) 498.1	Min Casing AV (ft/min) 451.9	Min Open Hole AV (ft/min) 145.4	ECD End (lb/gal) 11.30

Error

Wellbore Directional Survey Data

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Note
16,034.00	89.35	182.08	7,265.77	8,871.73	-8,853.05	-582.24	1.93	
16,127.00	88.54	181.38	7,267.48	8,964.61	-8,945.99	-585.05	1.15	
16,221.00	88.33	180.05	7,270.05	9,058.39	-9,039.95	-586.22	1.43	
16,314.00	88.25	180.12	7,272.83	9,151.09	-9,132.91	-586.36	0.11	
16,408.00	87.32	179.73	7,276.46	9,244.74	-9,226.84	-586.23	1.07	
16,501.00	86.41	179.98	7,281.54	9,337.32	-9,319.70	-586.00	1.01	
16,595.00	87.51	180.14	7,286.53	9,430.92	-9,413.56	-586.10	1.18	
16,689.00	89.76	182.98	7,288.77	9,524.77	-9,507.48	-588.66	3.85	
16,783.00	88.90	182.50	7,289.87	9,618.72	-9,601.37	-593.15	1.05	
16,877.00	92.69	183.71	7,288.56	9,712.67	-9,695.20	-598.24	4.23	
16,971.00	93.26	183.88	7,283.69	9,806.54	-9,788.87	-604.45	0.63	
17,065.00	93.46	183.78	7,278.18	9,900.38	-9,882.50	-610.72	0.24	
17,158.00	90.32	182.57	7,275.11	9,993.29	-9,975.29	-615.87	3.62	
17,252.00	88.85	181.38	7,275.79	10,087.21	-10,069.23	-619.11	2.01	
17,346.00	89.85	182.13	7,276.86	10,181.10	-10,163.18	-621.98	1.33	
17,439.00	90.05	182.73	7,276.94	10,274.05	-10,256.09	-625.93	0.68	
17,533.00	90.18	183.38	7,276.75	10,368.03	-10,349.96	-630.94	0.71	
17,627.00	89.87	183.16	7,276.71	10,462.01	-10,443.81	-636.30	0.40	
17,721.00	90.73	181.68	7,276.22	10,555.95	-10,537.72	-640.27	1.82	

Well Name: ULANDS 48 3-13 B 441H

Rig: NorAm 25

Report #: 13, DFS: 9

Wellbore Directional Survey Data								
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Note
17,815.00	90.75	183.49	7,275.00	10,649.90	-10,631.61	-644.51	1.93	
17,910.00	90.79	183.24	7,273.73	10,744.88	-10,726.44	-650.08	0.27	
18,003.00	90.33	183.52	7,272.82	10,837.86	-10,819.27	-655.57	0.58	
18,102.00	89.95	185.18	7,272.57	10,936.85	-10,917.98	-663.07	1.72	
18,162.00	89.95	185.18	7,272.63	10,996.85	-10,977.74	-668.49	0.00	

KOP & LP	
Top Depth (ftKB) 6,793.0	Bottom Depth (ftKB) 7,517.0

Lost Circulation					
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Operation In Progress	Total Lost Volume (bbl)	End Date

Interval Problems (NPT)						
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Estimated Cost (Cost)	Estimated Lost Time (hr)

Comment

Well Name: ULANDS 48 3-13 B 441H
Report #: 14, DFS: 10

API/UWI 42383417390000	State/Province TEXAS	County REAGAN	Area WTG	Original KB Elevation (ft) 2,788.00	Ground Elevation (ft) 2,763.00	KB-Ground Distance (ft) 25.00
Target Formation WFMP B LOWER	Target Depth (ftKB) 18,150		Regulatory Spud Date 5/13/2024		Rotary Spud Date 5/13/2024	Rig Release Date
Start Depth (ftKB) 18,162.0		Current Depth (ftKB) 18,162			Progress (ft) 0	

Last Casing String

Casing Description Intermediate 1	Csg Size (in) 9 5/8	Weight/Length (lb/ft) 40.00	String Grade J-55	Run Date 5/17/2024	Length (ft) 6,683.51	Csg Depth (ftKB) 6,678
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Current Phase

Phase Type 1 Production	Phase Type 2 Casing and Cement	Model Duration (days) 1.84	Planned Start Depth (ftKB) 18,150.0	Planned End Depth (ftKB) 18,150.0	Actual Start Date 6/6/2024 02:00	Actual End Date
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Summary

Weather Partly Cloudy	Temperature (°F) 94.0	Hole Condition Good
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Operations at Report Time WORKING ON CATWALK	Operations Next Report Period CONTINUE RUN PROD. CSG TO 18,148', CIRC 1.5 TIMES CASING CAP, SET PACKOFF AND BACK PSI VALVE, N/D RELEASE RIG AND WALK RIG TO UL WTG 3-233 B 442H, PERFORM OLC JOB.
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Operations Summary

POOH, L/D BHA,M/U CURVE BHA RACK, PULL WB, RUN 5 1/2 PRODUCTION @ 16,557', TROUBLE SHOOT CATWALK

Remarks

DAYS FROM SPUD: 10
 *NORAM 25 CREWS : DAYS - FULL / NIGHTS - FULL
 *START 17 1/2" SURFACE @ 01:45 CST ON 5-13-2024 @ 120'
 *TD 17 1/2 SURFACE @ 07:30 CST ON 5-13-2024 @ 915'
 START 12 1/4 INTERMEDIATE ON 5-16-24 AT 04:15.
 ** TD 12 1/4 INTERMEDIATE ON 5-17-2024 AT 21:30**
 ***START 8-3/4" VERTICAL @ 6,701' MD ON 6-2-2024 AT 07:30 HRS ***
 ***TD 8-3/4" VERTICAL @ 6,793' MD ON 6-2-2024 AT 09:45 HRS ***
 ****START 8-3/4" CURVE @ 6,793' MD ON 6-2-2024 AT 09:45 HRS****
 **** TD 8 3/4 CURVE @ 7,516' MD ON 6-2-0024 AT 18:30HRS****
 *****START 8-1/2" LATERAL @ 7,516' MD ON 6-2-2024 AT 05:00 HRS*****
 *****TD 8 1/2" LATERAL @ 18,162' MD ON 6-6-2024 AT 02:00HRS *****
 BOP TEST : EVERY 21 DAYS
 LAST BOP TEST : 6/1/24
 NEXT BOP TEST: 6/22/2024
 RESUME WELL ON 5/15/2024 AT 08:00.
 PAUSED WELL ON 5/19/24 AT 01:00.
 RESUME WELL ON 6-1-2024 AT 07:30
 *NO INCIDENTS ACCIDENTS OR SPILLS.
 CONTACTED AMANDA W/TRRC WITH INTENT TO RUN AND CEMENT PRODUCTION CASING ON 6/6/2024 @ 16:30

Daily Time Log

Start Time	Dur (hr)	End Time	Desc	End Depth (ftKB)	Prob Hrs (hr)	Com
06:00	5.50	11:30	TRIPS	18,162.0		POOH F. 14,778' - 99'DIR TOOLS (NO ISSUES) FLOW CHECK AT KOP (NO FLOW), L/D AGITATOR & DNR TOOL
11:30	1.50	13:00	DIRECTIONAL WORK	18,162.0		L/D DIR BHA DRAIN MTR, PULL MWD, BREAK BIT (BIT GRADED AS FOLLOWS: 1-1-CT-G-X-0-NO-TD) 1/4" SLACK ON MOTOR. M/U NEW MOTOR & BIT AND RACK BACK SAME
13:00	0.50	13:30	WEAR BUSHING / ROTATING HEAD	18,162.0		PULL WEAR BUSHING / CLEAN FLOOR
13:30	1.00	14:30	RUN CASING & CEMENT	18,162.0		S/M W/ BUTCHES CSG CREW,NORAM,PR REP & R/U SAME
14:30	15.25	05:45	RUN CASING & CEMENT	18,162.0		M/U 1 JOINT SHOE TRACK & PUMP THROUGH SAME, RUN 5.5 17# P-110 RY GEO-CONN CASING TO 16,557', FILLING PIPE EVERY 40 JOINTS, FILLING PIPE ON THE FLY, HOLE GIVING PROPER DISPLACEMENT, WASH LAST 2 JOINTS & LAND MANDREL W/ CACTUS REP SET FS @ 18,148', LC/FC @18,121', MKR SET @ 6,696'
05:45	0.25	06:00	REPAIR RIG	18,162.0	0.25	WORKING ON CATWALK

Diesel and Nat Gas Supply

Supply Item Des	Type	Received	Consumed	Returned	On Loc
MUD DIESEL		6,914.0	147.0	0.0	14,256.0
RIG DIESEL		0.0	1,294.0	0.0	9,584.0

Daily Mud Checks											
18,162.0ftKB, 6/6/2024 12:00											
Mud Company M-I SWACO						Checked By Mud Engineer					
Time 12:00	Mud Type OBM-MEGADRIL	Depth (ftKB) 18,162.0		MW (lb/gal) 11.4		Funnel Viscosity (s/qt) 51		PV Calc (cP) 13.0		YP Calc (lb/100ft) 13.000	
Gel 10 sec (lb/100ft²) 9.000	Gel 10 min (lb/100ft²) 12.000	Gel 30 min (lb/100ft²) 14.000		Filtrate (mL/30min)		Filter Cake (1/32")		pH			
Percent Oil (%) 64.5	Percent Water (%) 15.5	Chlorides (mg/L) 30		Calcium (mg/L)		Electric Stab (V) 637.0		Solids (%) 20.0			
Max Background Gas		Max Connection Gas		Max Trip Gas		Max Drill Gas		Max H2S (ppm)			
BOP Pressure Tests											
Type BOP Pressure Test				Last Date 6/1/2024				Next Check Date 6/22/2024			
Drill Strings											
Drill String Name		BHA #	Drill Bit		Bit Run	Date Pick Up		Date Out of Hole		IADC Bit Dull	
TFA (incl Noz) (in²)											
Nozzles (1/32")		Depth In (ftKB)	Depth Out (ftKB)	Depth Drilled (ft)	BHA ROP (ft/hr)	String Wt (1000lbf)	Max Slack-Off Hds	Max Pick-Up Hook	WOB Max (no exc)	Max RPM (No B)	
Drill String Drilling Parameters											
<depthstart> - <depthend> ftKB											
Start Depth (ftKB)	End Depth (ftKB)	Cum Depth Drilled (ft)		Drilling Time (hr)	Cum Drilling Time (hr)		Interval ROP (ft/hr)	Flow Rate (gpm)	BH Temperature (°F)		
Weight on Bit (1000lbf)	RPM (rpm)	Stand Pipe Pressure (psi)		Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)		SO Str Wt (1000lbf)	Drilling Torque	Off Bottom Torque		
Drill String Components											
Type	Item Des			Jts	Len (ft)	ID (in)	OD (in)	Btm Conn Type	Btm Thread		
Wellbore Directional Survey Data											
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Note			
18,162.00	89.95	185.18	7,272.63	10,996.85	-10,977.74	-668.49	0.00				
KOP & LP											
Top Depth (ftKB) 6,793.0					Bottom Depth (ftKB) 7,517.0						
Lost Circulation											
Start Date		Top Depth (ftKB)		Bottom Depth (ftKB)		Operation In Progress		Total Lost Volume (bbl)		End Date	
Interval Problems (NPT)											
Problem Type Surface Equipment		Problem Subtype Rig		Start Date 6/7/2024		Start Depth (ftKB) 18,162.0		End Depth (ftKB) 18,162.0		Estimated Cost (Cost)	
Estimated Lost Time (hr)											
Comment CATWALK SHUT DOWN, TROUBLESHOOT SAME											