



Daily Drilling Report

Well Name: UL 13 JAFFREY 3123H

Report #: 5.0, DFS: 0.50

Acquisition: Shafter Lake

API/UWI 42-003-47612		Surface Legal Location		License # 829290		State/Province Texas	
Spud Date 9/15/2017 18:00		Rig Release Date		KB-Ground Distance (ft) 21.00		KB-Casing Flange Distance (ft)	
Daily Operations							
Report Start Date 9/15/2017		Weather CLEAR		Temperature (°F)		Road Condition GOOD	
Hole Condition GOOD		Operations 24 Hour Summary CONT R/U, MAKE READY TO SPUD, DRLG 12-1/4" SURF HOLE F/ 90' T/ 1,892', POOH, LDDS.					
Operations Next Report Period RUN SURF CSG, CMT CGS, WOC, WELD SOW, N/U BOP, TEST BOP, P/U DIRECTIONAL TOOLS, TIH & DRLG PROD SECTION							
Remarks TD SURF @ 1,892' 0300 HRS							
Time Log of Operations							
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Com	
06:00	7.50	7.50	13:30	Rig up	Top Drive	R/U RAILS, TOP DRIVE, FINISH R/U ON FLOOR, WELD UP CONDUCTOR, INSTALL FLOW LINE.	
13:30	4.50	12.00	18:00	Pick up	BHA	P/U BHA, BIT, MOTOR, STAB, SHOCK SUB, UBHO, 2 NMDC, STAB	
18:00	9.00	21.00	03:00	Drilling	.	DRLG 12-1/4" SURF HOLE F/ 90' T/ 1,892', 1,802', @200'/HR, WOB: 15-25, ROT: 60-65, GPM: 800, DIFF: 350-500	
03:00	0.50	21.50	03:30	Circulate Well Clean	.	PUMP 20 BBLS HI VIS SWEEP & CIRC TO SURF	
03:30	1.00	22.50	04:30	Trip Out Of Hole	BHA	PUMP SURVEY & TOH FOR 8-5/8" CSG	
04:30	1.50	24.00	06:00	Lay down	3rd Party Tools	L/D 8" DIRECTIONAL TOOLS	
Mud Volumes							
Active Volume (bbl)	Var Active Vol (bbl)	Balance (bbl)	Tank Volume (bbl)	Additions (bbl)	Losses (bbl)	Hole Volume (bbl)	
Tank/Added/Loss		Type	Volume (bbl)		Subtype		
Drill Strings							
BHA #1, Surface							
Bit Run 1	Drill Bit 12 1/4in, DF619X_ER01, 33320	IADC Bit Dull 1-1-NO-A-X-0-NO-TD		TFA (incl Noz) (in²) 1.04			
Nozzles (1/32") 15/15/15/15/15/15		String Length (ft) 120.73		String Wt (1000lbf) 14		BHA ROP (ft/hr) 200.2	
Drill String Components							
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread		
XO Sub	1	6 1/2	2.75	1.54	XH		
Stabilizer	1	8 1/4	2.81	8.07	Reg		
NMDC	2	7 15/16	3.25	58.80	Reg		
Orientation Sub	1	8	3.00	3.18	Reg		
Shock Sub	1	8 1/8	3.00	12.73	Reg		
Stabilizer	1	8 1/8	2.81	8.06	Reg		
Mud Motor - Bent Housing	1	8	3.00	27.60	Reg		
Drilling Parameters							
Wellbore Original Hole	Start Depth (ftKB) 90.0	End Depth (ftKB) 1,892.0	Cum Depth (ft) 1,802.00	Drilling Time (hr) 9.00	Cum Drill Time (hr) 9.00	Interval ROP (ft/hr) 200.2	Flow Rate (gpm) 750
WOB (1000lbf) 25	RPM (rpm) 60	SPP (psi) 2,350.0	Drill Str Wt (1000lbf) 85	PU Str Wt (1000lbf) 90	SO Str Wt (1000lbf) 75	Drilling Torque 8,200.0	Off Btm Tq 2,500.0
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)
Hydraulic Calculations							
Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)		Bit Pressure Drop (psi)		% P @ 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							
Kicks							
Kick Date	Kick Depth (ftKB)	Control Date		Control Depth (ftKB)		Kick Class	
Kill Notes							

Jobs		
Job Category Drilling	Sum of Total Fld Est (C... 205,222.00	
Total (Sum)	Sum of Total Fld Est (C... 205,222.00	
AFE Number D17101	AFE+Supp Amt (Cost)	
Day Total (Cost) 42,770.00	Cum To Date (Cost) 205,222.00	
Mud Field Est (Cost)	Cum Mud Field Est (Co...)	
Start Depth (ftKB) 90.0	End Depth (ftKB) 1,892.0	
Depth Progress (ft) 1,802.00	Avg ROP (ft/hr) 200.2	
Target Formation SAN ANDRES	Target Depth (ftKB) 9,861.0	
Last Casing String Conductor, 90.0ftKB		
Daily Contacts		
Job Contact	Mobile	
Mud Checks		
Date 9/15/2017	Type Water Base	
Depth (ftKB) 150.0	Density (lb/gal) 8.34	Wellbore Original Hole
H2O (%)	Percent Oil (%)	Electric Stab (V)
Vis (s/qt) 28	PV OR (cP)	YP OR (lb/10...)
Gel (10s) (lb/ft...)	Gel (10m) (lb/ft...)	Gel (30m) (lb/ft...)
Solids (%)	Chlorides (mg/L)	
Filtrate (mL/30min)	Filter Cake (1/32")	
Rigs		
SENDERO DRILLING COMPANY, 9		
Contractor SENDERO DRILLING COMPANY	Rig Number 9	
Rig Supervisor ADAM VILLA, RIG MANAGER	Phone Mobile 325-450-8810	
Rig Start Date 9/11/2017	Rig Release Date	
Rig Rate (ref) (Cost/day) 14,000.00		
1, Continental-Emsco, F-1600		
Pump # 1	Pwr (hp) 1,600.0	Rod Dia (in) 6
Liner Size (in) 6	Stroke (in) 12.00	Vol/Stk OR (b...) 0.100
P (psi)	Slow Spd	Strokes (s...) Eff (%)
2, Continental-Emsco, F-1600		
Pump # 2	Pwr (hp) 1,600.0	Rod Dia (in) 6
Liner Size (in) 6	Stroke (in) 12.00	Vol/Stk OR (b...) 0.100
P (psi)	Slow Spd	Strokes (s...) Eff (%)
Safety JSA's		
Time	Type	Des
18:00	Safety Meeting	
06:00	Rig Move	
Wellbores		
Wellbore Name Original Hole		



Daily Drilling Report

Well Name: UL 13 JAFFREY 3123H

Report #: 5.0, DFS: 0.50

Acquisition: Shafter Lake

Lost Circulation

Start Date	Top (ftKB)	Btm (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date

Interval Problems

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

Comment

Interval Lessons

Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co..)	Est Time Saving (hr)

Comment

Safety Incidents

Time	Category	Type	Subtype	Cause	Lost time?	Severity

Daily Costs

Cost Des	Vendor	Code 1	Code 2	Field Est (Cost)
Contract Drlg- Daywork	SANDERA DRILLING CO.	322	125	14,000.00
Supervision - Contract	OCTANE ENERGY	322	212	3,200.00
Office, Sewage and Misc Rentals:	PEAK OILFIELD SERVICES	380	155	700.00
Directional Tools & Services, Inspect, Repairs, & Replace	TDS	380	152	10,500.00
Miscellaneous Labor	Man Welding Services	380	241	952.00
Trucking & Hauling and Cranes	FOUR BET HAULERS, LLC	380	201	425.00
Wellhead Equipment :	WEIR OIL & GAS	380	331	11,553.00
Tubular Testing, Inspection	Charlie's Field Service, Inc.	380	253	1,440.00

Cement

<des>, <cementtyp>, <dtmstart>

Type	Cementing Start Date	Cementing End Date	Wellbore	String Table
Cementing Company	Evaluation Method	Cement Evaluation Results		

Comment

Cement Stages

Stg #	Description	Objective			Comment		
Top Depth (ftKB)		Bottom Depth (ftKB)		Full Return?	Top Plug?	Bottom Plug?	Cement Volume Return (bbl)
Plug Bump Pressure (psi)		Recip?	Pipe Rotated?	Tagged Depth (ftKB)		Depth Plug Drilled Out To (ft...	Drill Out Date

Cement Fluids

Fluid Type	Fluid Description	Amount (sacks)	Class	Volume Pumped (bbl)
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Mix H2O Ratio (gal/sack)
Free Water (%)	Density (lb/gal)	Plastic Viscosity (cP)	Thickening Time (hr)	1st Compressive Strength (psi)

Cement Fluid Additives

Additive	Type	Amount	Amount Units	Concentration	Conc Unit label

Wellbore Sections

Section Des	Size (in)	Act Top (ftKB)
Conductor	24	0.0
Act Btm (ftKB)	Start Date	End Date
90.0	9/11/2017	9/11/2017
Section Des	Size (in)	Act Top (ftKB)
Surface	12 1/4	90.0
Act Btm (ftKB)	Start Date	End Date
1,892.0	9/15/2017	9/16/2017

Kick Offs & Key Depths

Type	Top Depth (ftKB)

Plug Back Total Depths

Date	Type
Depth (ftKB)	Depth (TVD) (ftKB)
Comment	