



# Daily Drilling Report

Well Name: UL 13 JAFFREY 3123H

Report #: 6.0, DFS: 1.50

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)	
<b>Daily Operations</b>							
Report Start Date 9/16/2017		Weather CLEAR		Temperature (°F)		Road Condition GOOD	
				Hole Condition GOOD			
Operations 24 Hour Summary RIH W/ 1,892' OF 8-5/8" 24# J55 STC, CMT SAME, CUT CSG, WELD ON WELLHEAD, N/U BOPE TEST SAME							
Operations Next Report Period P/U DIRECTIONAL TOOLS, TIH & BUILD CURVE							
Remarks NO ISSUES; NO PROBLEMS							
<b>Time Log of Operations</b>							
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Com	
06:00	0.50	0.50	06:30	Lay down	BHA	CONT L/D BHA	
06:30	7.00	7.50	13:30	Run	Casing & Cement	SAFETY MEETING, RIH W/ 1,892' OF 8-5/8" 24# J55 STC, CSG STOPPED GOING DOWN @ 1,400'. TRIED WORKING THE PIPE, WAS EXTREMELY SLOW, HAD TO START PUMPING DOWN AND WORKING THE PIPE, R/D CSG CREW	
13:30	3.00	10.50	16:30	Cement	Casing	CMT 8-5/8" SURF CSG W/ 640 SKS/213BBLs 12.8 LEAD, 235 SKS/56 BBLs 14.8 TAIL, PUMP 118 BBLs DISPLACEMENT. BUMPED WITH 600PSI, UP TO 1130PSI. HELD FOR 2 MIN, BLED BACK 2 BBLs. FLOATS HELD. CIRCULATED 98 BBLs, 294 SKS TO SURFACE.	
16:30	4.00	14.50	20:30	WAIT ON CEMENT	.	WOC; S/M AND R/D CMT'S	
20:30	3.50	18.00	00:00	Install	Wellhead	CUT CONDUCTOR & CSG, WELD ON WELL HEAD, TEST OK	
00:00	3.50	21.50	03:30	Nipple up BOP	.	N/U BOP, FLOWLINE & CHOKE MANIFOLD	
03:30	2.50	24.00	06:00	Pressure Test BOP's	.	TEST CSG 30 MINS 1500 PSI, SET TEST PLUG, TEST MANUAL 4" VALVE, INSIDE & OUTSIDE CHOKE VALVES, CHOKE MANUAL VALVES, 1500 PSI HIGH & 250 PSI LOW	
<b>Mud Volumes</b>							
Active Volume (bbl)		Var Active Vol (bbl)		Balance (bbl)		Tank Volume (bbl)	
						Additions (bbl)	
						Losses (bbl)	
						Hole Volume (bbl)	
Tank/Addition/Loss		Type		Volume (bbl)		Subtype	
<b>Drill Strings</b>							
BHA #<stringno>, <des>							
Bit Run		Drill Bit		IADC Bit Dull		TFA (incl Noz) (in²)	
Nozzles (1/32")				String Length (ft)		String Wt (1000lbf)	
						BHA ROP (ft/hr)	
<b>Drill String Components</b>							
Item Des		Jts		OD (in)		ID (in)	
						Len (ft)	
						Top Thread	
<b>Drilling Parameters</b>							
Wellbore		Start Depth (ftKB)		End Depth (ftKB)		Cum Depth (ft)	
						Drilling Time (hr)	
						Cum Drill Time (hr)	
						Interval ROP (ft/hr)	
						Flow Rate (gpm)	
WOB (1000lbf)		RPM (rpm)		SPP (psi)		Drill Str Wt (1000...)	
						PU Str Wt (1000lbf)	
						SO Str Wt (1000lbf)	
						Drilling Torque	
						Off Btm Tq	
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...	
<b>Hydraulic Calculations</b>							
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							

<b>Jobs</b>		
Job Category Drilling		Sum of Total Fld Est (C... 294,638.00
<b>Total (Sum)</b>		Sum of Total Fld Est (C... 294,638.00
AFE Number D17101		AFE+Supp Amt (Cost)
Day Total (Cost) 79,416.00		Cum To Date (Cost) 294,638.00
Mud Field Est (Cost)		Cum Mud Field Est (Co...
Start Depth (ftKB) 1,892.0		End Depth (ftKB) 1,892.0
Depth Progress (ft) 0.00		Avg ROP (ft/hr)
Target Formation SAN ANDRES		Target Depth (ftKB) 9,861.0
Last Casing String Surface, 1,892.0ftKB		
<b>Daily Contacts</b>		
Job Contact		Mobile
<b>Mud Checks</b>		
Date		Type
Depth (ftKB)		Density (lb/gal)
H2O (%)		Percent Oil (%)
Vis (s/qt)		PV OR (cP)
Gel (10s) (lb/...		Gel (10m) (lb/...
Solids (%)		Chlorides (mg/L)
Filtrate (mL/30min)		Filter Cake (1/32")
<b>Rigs</b>		
<b>SENDERO DRILLING COMPANY, 9</b>		
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		
<b>1, Continental-Emsco, F-1600</b>		
Pump # 1	Pwr (hp) 1,600.0	Rod Dia (in) 6
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...
P (psi)	Slow Spd	Strokes (s...)
		Eff (%)
<b>2, Continental-Emsco, F-1600</b>		
Pump # 2	Pwr (hp) 1,600.0	Rod Dia (in) 6
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...
P (psi)	Slow Spd	Strokes (s...)
		Eff (%)
<b>Safety JSA's</b>		
Time	Type	Des
18:00	Safety Meeting	
06:00	Safety Meeting	
<b>Wellbores</b>		
Wellbore Name		
Original Hole		



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Kicks						
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class		
Kill Notes						
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	8,000.00		
Surface:	ATLAS TUBULAR	380	292	27,113.00		
Cement & Services	UNIVERSAL PRESSURE PUMPING, INC	380	161	19,678.00		
Office, Sewage and Misc Rentals:	PEAK OILFIELD SERVICES	380	155	675.00		
Casing Crews / Tong Services / Laydown / Pickup Services	RIG MASTERS CASING SERVICES, LLC	380	251	4,420.00		
Miscellaneous Labor	Man Welding Services	380	241	1,090.00		
Office, Sewage and Misc Rentals:	PEAK OILFIELD SERVICES	380	155	540.00		
Cement						
Surface Casing Cement, Casing, 9/16/2017 14:45						
Type	Cementing Start Date	Cementing End Date	Wellbore	String Table		
Casing	9/16/2017	9/16/2017	Original Hole	Casing String		
Cementing Company	Evaluation Method	Cement Evaluation Results				
UNIVERSAL PRESSURE PUMPING	Returns to Surface	PUMP 30 BBLS FRESH WATER, 640 SKS 12.80 PPG LEAD, 235 SKS 14.80PPG TAIL, DISPLACE W/ 104 BBLS FRESH WATER. BUMP PLUG. CIRC 98 BBLS TO SURF				
Comment						
Cement Stages						
Stg #	Description	Objective	Comment			
1	Surface Casing Cement					
Top Depth (ftKB)	Bottom Depth (ftKB)	Full Return?	Top Plug?	Bottom Plug?	Cement Volume Return (bbl)	
0.0	1,892.0	Yes	Yes	No	98.0	
Plug Bump Pressure (psi)	Recip?	Pipe Rotated?	Tagged Depth (ftKB)	Depth Plug Drilled Out To (ft...	Drill Out Date	
1,100.0	No	No				
Cement Fluids						
Fluid Type	Fluid Description	Amount (sacks)	Class	Volume Pumped (bbl)		
Lead	640 SX @12.8 LBS, 213 BBLS	640	C	213.0		
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Mix H2O Ratio (gal/sack)		
0.0	695.0	100.0	1.87	9.90		
Free Water (%)	Density (lb/gal)	Plastic Viscosity (cP)	Thickening Time (hr)	1st Compressive Strength (psi)		
	12.80					
Cement Fluid Additives						
Additive	Type	Amount	Amount Units	Concentration	Conc Unit label	
Fluid Type	Fluid Description	Amount (sacks)	Class	Volume Pumped (bbl)		
Tail	235 SX @14.8, 56 BBLS	214	C	56.0		
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Mix H2O Ratio (gal/sack)		
695.0	1,747.0	100.0	1.34	6.29		
Free Water (%)	Density (lb/gal)	Plastic Viscosity (cP)	Thickening Time (hr)	1st Compressive Strength (psi)		
	14.80					

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		



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## Cement Fluid Additives

Additive	Type	Amount	Amount Units	Concentration	Conc Unit label
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