



Daily Drilling Report

Well Name **UTL 4443-21 4H**

Report Date **10/01/2017**

API **42-495-33893**

Target Zone	Phantom(Wolfcamp)	Supervisor	JERRED BAXTER	Rig Up Days	0.35	Report No.	35
Location	Sec. 45, Block 21, U85 - University Lands	Supervisor 2		Surface Days	3.15	DFS	30.75
County	Winkler	Rig Phone	432-202-4081	Inter. 1 Days	6.50	Spud Date	07/31/2017
Rig Name	Star	Rig Email	JPERig01@jaggedpeakenergy.com	Inter 2 Days	10.00	AFE	\$3,695,198.00
KB	27	Daily Footage	1115	Prod. Days	14.25	Daily Cost	\$71,856.83
Depth (MD)	21,749	TVD at Bit	11651	Tot. Drill Days	34.25	Cum. Cost	\$3,000,848.26
Estimated TD	21,710			Hrs Drlg	20.25		

Type	Size	Weight	Grade	Connection	Top	Bottom	Shoe Test
Surface	13-3/8	48.0	J-55	STC		1,089'	NO
Intermediate	9-5/8	40.0	J-55	LTC		7,402'	NO
Intermediate	7	32.0	P-110	IYC BTC		12,200'	

Mud Properties

Type	LATERAL MUD
Weight	12.2
FV	41
PV	10
YP	16
LCM (ppb)	
Chlorides	137000
% Solids	3.97
Daily Losses	2
Total Losses	5778

Last Survey

Depth	Inc	Azi
21,716'	90.40°	251.90°

BHA

Description	Length	ID	OD
6" PDC	1.00'		6.00
5" ORBIT RSS	14.72'		5.00
UBHO SUB	3.59'	2.75	4.75
4.75" NMDC	29.60'	2.75	4.75
5.75" NM STAB SPIRAL	4.06'	2.50	5.75
4.75" NM PONY COLLAR	12.85'	2.75	4.50
4.75" NM Filter Sub	2.42'	2.50	4.75
4.75" TOMAX	16.63'	1.50	4.75
7/8 4.5 .46 RPG	30.66'		5.00
3.5IF P X PTECH39 B	2.86'	2.00	4.00
Total Length:	118.39		

Bit Info

Bit #	Size	Make	Type	S/N	Jets	In	Out	Footage	On BTM Hrs	On BTM ROP	IADC Hrs	IADC ROP	Grade
11	6	SMITH	X516	JM8614	5 X 10	16,990'	21,749'	4,759'	77.80	61.1	83.3	57.0	-----

Safety

Safety				Fuel							
Last BOP Test	09/17/2017	Last BOP Drill	09/30/2017	Last Function Test	09/27/2017	Diesel Used	1,165.00	Diesel Recvd		Diesel on Loc	8,088.00

Activity Summary (6:00am - 6:00am)

From	To	Hours	P / U	Summary
06:00	10:00	4.00	Drilling	<p>DRILLED 6" LATERAL SECTION F/ 20,634' - T/ 20,867' = 233'</p> <p>- AROP: 66.5 FPH - WOB: 16 - 18 KLBS - STRING RPM: 80 - 90 - MOTOR RPM: 83 - 90 - FLOW: 180 - 195 GPM - CRPM-C: 178 RPM CRPM-A: 117 - DIFF: 225 - 375 PSI - ON-BTM PSI: 3,100 PSI - ON-BTM TRQ: 11.5 K - 13.5 K - M/W: IN - 12.2/41 OUT - 12.2/40 PH: 11.0 - BBG: 950 UNITS CONN GAS: 1,375 UNITS</p> <p>SURVEY: 20,772' INC: 90.10° AZM: 252.40° TVD: 11,659.03' ABOVE: 64.0' LEFT: 5.0'</p> <p>SAMPLE AT 20,600' SHALE: 60% LIME ST: 40% GAMMA: 20 - 85</p>
10:00	12:45	2.75	Drilling	<p>DRILLED 6" LATERAL SECTION F/ 20,867' - T/ 20,992' = 125'</p> <p>- AROP: 55.5 FPH - WOB: 15 - 18 KLBS - STRING RPM: 80 - 85 - MOTOR RPM: 83 - 90 - FLOW: 180 - 195 GPM - CRPM-C: 178 RPM CRPM-A: 117 - DIFF: 275 - 550 PSI - ON-BTM PSI: 3,200 PSI - ON-BTM TRQ: 12.0 K - 13.5 K - M/W: IN - 12.2/42 OUT - 12.2/40 PH: 11.0 - BBG: 450 UNITS CONN GAS: 2,025 UNITS</p> <p>SURVEY: 20,866' INC: 90.10° AZM: 252.00° TVD: 11,658.86' ABOVE: 65.0' LEFT: 5.0'</p> <p>SAMPLE AT 20,900' SHALE: 25% LIME ST: 75% GAMMA: 30 - 70</p>
12:45	13:15	0.50	Rig Service	<p>PERFORMED RIG, TOP DRIVE AND DRAW WORKS SERVICE.</p> <p>NOTE: FUNCTION TESTED ORBIT VALVE AND PUMPED THROUGH THE DRILLING CHOKE.</p>
13:15	17:30	4.25	Drilling	<p>DRILLED 6" LATERAL SECTION F/ 20,992' - T/ 21,248' = 256'</p> <p>- AROP: 68.2 FPH - WOB: 15 - 18 KLBS - STRING RPM: 80 - 90 - MOTOR RPM: 83 - 90 - FLOW: 180 - 195 GPM - CRPM-C: 175 RPM CRPM-A: 137 - DIFF: 325 - 625 PSI - ON-BTM PSI: 3,325 PSI - ON-BTM TRQ: 11.5 K - 13.5 K - M/W: IN - 12.2/40 OUT - 12.2/40 PH: 11.0 - BBG: 400 UNITS CONN GAS: 950 UNITS</p> <p>SURVEY: 21,149' INC: 90.70° AZM: 252.10° TVD: 11,657.38' ABOVE: 70.0' RIGHT: 3.0'</p> <p>SAMPLE AT 21,100' SHALE: 70% LIME ST: 30% GAMMA: 20 - 90</p>
17:30	21:30	4.00	Drilling	<p>DRILLED 6" LATERAL SECTION F/ 21,248' - T/ 21,428' = 180'</p> <p>- AROP: 51.4 FPH - WOB: 15 - 18 KLBS - STRING RPM: 80 - 90 - MOTOR RPM: 83 - 90 - FLOW: 180 - 195 GPM - CRPM-C: 174 RPM CRPM-A: 119 - DIFF: 350 - 475 PSI - ON-BTM PSI: 3,525 PSI - ON-BTM TRQ: 11.5 K - 13.0 K - M/W: IN - 12.2+/40 OUT - 12.2+/38 PH: 10.5 - BBG: 1,550 UNITS CONN GAS: 2,175 UNITS</p> <p>SURVEY: 21,338' INC: 90.70° AZM: 252.40° TVD: 11,654.58' ABOVE: 74.0' RIGHT: 2.0'</p> <p>SAMPLE AT 21,300' SHALE: 90% LIME ST: 10% GAMMA: 85 - 120</p>

