



## 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		

### Casing Data

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
<b>Total Length:</b>	<b>118.39</b>		

### Bit Info

[illegible]

## Safety

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
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**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>

				DRILLED 6" LATERAL SECTION F/ 21,428' - T/ 21,749' = 321' - TD  - AROP: 67.5 FPH - WOB: 15 - 18 KLBS - STRING RPM: 80 - 90 - MOTOR RPM: 83 - 90 - FLOW: 180 - 195 GPM - CRPM-C: 178 RPM CRPM-A: 131 - DIFF: 400 - 600 PSI - ON-BTM PSI: 3,725 PSI - ON-BTM TRQ: 12.5 K - 14.5 K - M/W: IN - 12.2/41 OUT - 12.2/39 PH: 10.5 - BBG: 1,175 UNITS CONN GAS: 2,075 UNITS  SURVEY: 21,716' INC: 90.40° AZM: 251.90° TVD: 11,650.86' ABOVE: 74.0' RIGHT: 2.0'  SAMPLE AT 21,600' SHALE: 60% LIME ST: 40% GAMMA: 50 - 70
21:30	02:45	5.25	Drilling	
02:45	06:00	3.25	Circulate	PICKED UP HALF A STAND OF BOTTOM, DOWNLINKED RSS TO NEUTRAL RACK BACK 1 STAND, PUMPED 20 BBL WEIGHTED SWEEP DROPPING FLOW DOWN TO 180 GPM FOR SWEEP TO CLEAR THE BIT. ONCE SWEEP CLEARED BIT BROUGHT GPM BACK UP TO 200 GPM AND STARTED CIRCULATING 3 BOTTOMS UP WHILE RECIPROCATED PIPE AT 150 FPM UP AT 40 RPM & 75 FPM DOWN AT 80 RPM.  NOTE: BEFORE THE CLEAN UP CYCLE P/U WEIGHT WAS 265, S/O WAS 180, ROT WAS 220 AND TORQUE WAS 8,500.
Total Hours:		24		
24 Hour Activity Summary:				
DRILLED AHEAD IN THE LATERAL SECTION TO TD, STARTED PERFORMING CLEAN UP CYCLE.				
24 Hour Plan Forward:				
DRILL AHEAD IN THE LATERAL SECTION TO TD, PERFORM CLEAN UP CYCLE.				

