

EP WELLS DAILY OPERATIONS REPORT

Report 18

09/11/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 D 0904H
Wellbore	UNIVERSITY 19 D 0904H
WBS No/API No	30265147 / 4230133226.00

Event Summary

Event Type	Drilling only	Event Start Date	06/19/2017	Days on Location	14.83
Objective	Drill - Wolfcamp B1 Shale	Original Spud Date	06/19/2017	Days Since Spud	14.58
Est. Days	21.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	BIM JOHNSON	Measured Depth(ft)	18,580.00
Engineer	BRANDON FOOTE	TVD(ft)	11,639.18
Other Supervisor	TANNER MANUEL	24 Hr Progress(ft)	0.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,799.10 / 2,771.10	Hole size(in)	6.125
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	4.500in@18,580.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	1,989,669/2,503,951.00	Current MW / BH EMW(ppg)	13.80/
Actual divided by AFE	0.79	LOT/FIT EMW(ppg)	
Daily Cost	282,556	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	09/29/2015	713	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
MAN HRS: 287							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test	09/05/2017 09/26/2017	6	JSA's/Toolbox Talks Days Since Last Drill	17

Operations Summary

24 Hour Summary
CIRCULATE BTMS UP. DROP & PUMP DOWN SETTING BALL & BLOW BALL SEAT. PUMP CEMENT. BUMP PLUG & TEST FLOATS (GOOD TEST). CIRCULATE OUT CEMENT (12 BBLS OF CEMENT TO SURFACE). PERFORM POSITIVE TEST. DISPLACE WELL TO 10 PPG BRINE. PERFORM NEGATIVE TEST. REMOVE BIT GUIDE & INSTALL BPV. RELEASE RIG @ 1730 HRS. WALK RIG TO UNIVERSITY 19 C 0903H.
Update Since Report Time
24 Hour Forecast

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Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.50	MNH1	CBU		18,580.00	0		CIRCULATE BTMS UP.
1:30	1.50	MNH1	RCC		18,580.00	0		DROP SETTING BALL. PUMP DOWN BALL @ 3.5 BPM. PRESSURE UP TO 4096 PSI TO BLOW BALL SEAT. PJSM WITH BAKER CEMENTERS. RIG UP CEMENT EQUIPMENT.
3:00	1.50	MNH1	RCC		18,580.00	0		R/U CMENT LINES TO CEMENT HEAD. ATTEMPT TO TEST LINES. INSTALL TIW VALVE ON TOP OF CEMENT HEAD DUE TO HYDRAULIC IBOP & MANUAL TIW NOT WORKING ON TOPDRIVE.
4:30	4.00	MNH1	CEM		18,580.00	0		PJSM W/ CREW & BJ. R/U IRON T/ CMT HEAD. PRESSURE TEST LINES T/8000 PSI PUMP 50 BBLS WEIGHTED SPACER @ 14PPG PUMP 147 BBLS SLURRY @ 14.5 PPG DROP PLUG DISPLACE W/ 20 BBLS SUGAR WATER, 80 BBLS 10 PPG BRINE, 20 BBLS SUGAR WATER, 102 BBLS 13.7 PPG OBM (229 BBLS TOTAL) BUMPED PLUG & TEST FLOATS. FLOATS HELD. BLED BACK 2.25 BBLS.
8:30	1.00	MNH1	LCH		18,580.00	0		RIG DOWN CEMENT IRON FROM CEMENT HEAD. SET PACKER. CIRCULATE CEMENT OUT OF WELL. (12 BBLS BACK TO SURFACE.
9:30	0.50	MNH1	SLP		18,580.00	0		PERFORM POSITIVE TEST ON TOP OF LINER T/ 2500 PSI. GOOD TEST.
10:00	1.50	MNH1	SLP		18,580.00	0		DISPLACE WELL TO 10 PPG BRINE HOLDING BHP CONSTANT.
11:30	0.50	MNH1	SLP		18,580.00	0		PERFORM NEGATIVE TEST.
12:00	0.50	MNH1	SLP		18,580.00	0		R/D CEMENT HEAD.
12:30	3.50	MNH1	TOH		18,580.00	0		POOH F/ 10990' - T/ SURFACE & L/D PACKER RUNNING TOOL.
16:00	1.50	MNH1	RDP		18,580.00	0		PJSM WITH CAMERON. REMOVE BIT GUIDE & INSTALL BPV. N/D BOPS WITH CAMERON SPEED HEAD. RELEASE RIG @ 1730 HRS.
Total	17.50							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
18,424.00	90.98	345.77	11,637.82	6,021.82	-2,049.07	6,353.12	0.34	PTW MWD+HDGM_2016
18,532.00	88.72	344.70	11,638.10	6,126.24	-2,076.59	6,461.09	2.32	PTW MWD+HDGM_2016
18,532.00	88.72	344.70	11,638.10	6,126.40	-2,076.48	6,461.21	2.32	PTW MWD+HDGM_2016
18,580.00	88.72	344.70	11,639.18	6,172.53	-2,089.26	6,509.08	0.00	PTW MWD+HDGM_2016
18,580.00	88.72	344.70	11,639.18	6,172.68	-2,089.15	6,509.20	0.00	PTW MWD+HDGM_2016

Fluid Details

Mud type	Invermul	Oil/Water (%)	57.50/14.00	POM (cc)	
MD (ft)	18,580.00	TS/HGS/LGS (%)	27.00/18.70/8.30	CaCl2 (%)	
Mud Density (ppg)	13.80	Sand (%)	0.20	Caom/Clom (ppm)	
Vis (s/qt)	61.00	Oil/Water Ratio (%)	80.40/19.60	ACT	
PV/YP (cp/lbf/100ft²)	24.00/12.000	LCM (lbm/bbl)		XS Lime(lbm/bbl)	3.63
Gels 10 s/m (lbf/100ft²)	13.000/16.000	ECD (ppg)		ES (Volts)	520.0
API/HTHP WL (cc/30min)	/9.0	H2S (gas unit)		R600/300 (°)	
FC/HTHP FC (32nd")	/4.0	KCl (%)		R200/100 (°)	
WPS (ppm)	261,352			R6/3 (°)	
FL temp. (°F)		Ditch Magnet in Last 24hrs/Cum. (gm)			

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PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1		GARDENER-DENVER / PZ-11-1600	11.00						
2		GARDENER-DENVER / PZ-11-1600	11.00						