EP WELLS DAILY OPERATIONS REPORT

Report 34 10/13/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1804H
Wellbore	UNIVERSITY 19 PW UNIT 1804H
WBS No/API No	30269397 / 4230133264.00

Event Summary

Event Type	Drilling only	Event Start Date	08/09/2017	Days on Location	34.63
Objective	Drill - Wolfcamp	Original Spud Date	08/10/2017	Days Since Spud	32.88
Est. Days	23.00	Contractor	PRECISION		
Work Unit	PRECISION 563	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	TOMMY DOWNES	Measured Depth(ft)	22,500.00
Engineer	ROBERT HAHN	TVD(ft)	11,621.35
Other Supervisor	KEITH IMMATTY	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,788.55 / 2,762.90	Hole size(in)	6.125
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	7.000in@11,261.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@22,462.00ft
Actual cost to date/AFE	3,036,250/2,627,752.00	Current MW / BH EMW(ppg)	13.40/
Actual divided by AFE	1.16	LOT/FIT EMW(ppg)	
Daily Cost	287,624	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC			PSI			TRCF	
RWC			NII			LWCF	
MTC			HPI			Safety Cards - Safe	
FAC			**GOAL ZERO DAYS**	10/31/2016	347	Safety Card - Unsafe	5
Last casing pressure test			**PS BARRIER EVENT**			SSE%	
			PS barrier bowtie review			Last casing pressure(psi)	

Safety Comments:

NO HSE ISSUES TO REPORT

MAN HOURS: 278

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection			JSA's/Toolbox Talks	
Last BOP function test	09/15/2017	28	Days Since Last Drill	34
Last BOP Test	09/25/2017	18		
Next BOP Test	10/16/2017			

Operations Summary

24 Hour Summary

PUMP CEMENT. SET PACKER. POSITIVE TEST TO 2500PSI FOR 10MINS-GOOD TEST. DISPLACE TO 9.0PPG BRINE HOLDING CONSTANT BHP. NEGATIVE TEST FOR 5MINS-GOOD TEST. TOOH. L/D RUNNING TOOL. SKID RIG. RIG RELEASED TO UNIVERSITY 19PW UNIT 1803H AT 1800HRS

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	1.00	MNH1	CLR		22,500.00	0		TIH T/22462'
1:00	0.50	MNH1	CLR		22,500.00	0		ATTEMPT TO WORK THROUGH TIGHT SPOT AT 22462' WITHOUT SUCCESS
1:30	0.50	MNH1	RCC		22,500.00	0		L/O SINGLE JOINT. P/U CEMENT HEAD
2:00	2.00	MNH1	RCC		22,500.00	0		DROP SETTING BALL AND CIRCULATE. SET HANGER. PJSM W/CEMENTERS
4:00	4.00	MNH1	CEM		22,500.00	0		PUMP CEMENT PER FOLLOWING SCHEDULE 50BBLS 14.0PPG BARITE SPACER 239BBLS 14.5PPG CEMENT SLURRY LAUCH DART AND DISPLACE 10BBLS 9.0PPG SUGAR WATER 150BBLS 9.0PPG BRINE 20BBLS 9.0PPG SUGAR WATER 115BBLS 13.5PPG OBM BUMPED PLUG ON SCHEDULE. FLOATS HELD
8:00	1.50	MNH1	SLP		22,500.00	0		SET PACKER. UNSTING AND CIRCULATE CEMENT OUT. POSITIVE PRESSURE TEST T/2500PSI FOR 10MINS-GOOD TEST
9:30	1.50	MNH1	SLP		22,500.00	0		DISPLACE TO BRINE HOLDING CONSTANT BHP. PERFORM NEGATIVE TEST FOR 5MINS-GOOD TEST
11:00	0.50	MNH1	SLP		22,500.00	0		L/D CEMENT HEAD
11:30	4.00	MNH1	TOH		22,500.00	0		TOOH T/RUNNING TOOL
15:30	0.50	MNH1	TOH		22,500.00	0		L/D RUNNING TOOL
16:00	1.00	MNH1	RDP		22,500.00	0		REMOVE BIT GUIDE. INSTALL BPV
17:00	1.00	MNH1	RDP		22,500.00	0		REMOVE MOUSEHOLES. N/D BOP **RIG RELEASED TO UNIVERSITY 19PW UNIT 1803H AT 1800HRS
Total	**18.00**							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
22,295.65	91.00	159.21	11,620.72	-9,506.09	3,239.82	-4,518.14	1.43	PTW MWD+HDGM_2016
22,389.65	89.43	157.05	11,620.37	-9,593.32	3,274.84	-4,555.90	2.84	PTW MWD+HDGM_2016
22,389.65	89.43	157.05	11,621.22	-9,592.91	3,275.26	-4,555.30	2.84	PTW MWD+HDGM_2016
22,451.65	89.51	155.21	11,620.94	-9,650.01	3,299.92	-4,578.81	2.97	PTW MWD+HDGM_2016
22,451.65	89.51	155.21	11,621.80	-9,649.60	3,300.35	-4,578.21	2.97	PTW MWD+HDGM_2016

Fluid Details

Mud type	Invermul	Oil/Water (%)	57.50/16.00	POM (cc)	
MD (ft)	22,500.00	TS/HGS/LGS (%)	24.70//	CaCl2 (%)	
Mud Density (ppg)	13.40	Sand (%)	0.00	Caom/Clom (ppm)	
Vis (s/qt)	75.00	Oil/Water Ratio (%)	78.20/21.80	ACT	
PV/YP (cp/lbf/100ft²)	23.00/13.000			XS Lime(lbm/bbl)	4.53
Gels 10 s/m (lbf/100ft²)	8.000/12.000	LCM (lbm/bbl)		ES (Volts)	602.0
API/HTHP WL (cc/30min)	0.0/	ECD (ppg)	13.400	R600/300 (°)	
FC/HTHP FC (32nd")	0.0/4.0	H2S (gas unit)		R200/100 (°)	
WPS (ppm)	273,337	KCl (%)		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		JJMMC / F-1600	12.00						
2		JJMMC / F-1600	12.00						