

EP WELLS DAILY OPERATIONS REPORT

Report 4

06/27/2017

Company PERMIAN
 Well Type Development
 Well UNIVERSITY 19 C 0903H
 Wellbore UNIVERSITY 19 C 0903H
 WBS No/API No 30265146 / 4230133222

Event Summary

Event Type	Drilling only	Event Start Date	06/24/2017	Days on Location	2.79
Objective	Drill - Wolfcamp W2 Sand	Original Spud Date	06/25/2017	Days Since Spud	2.35
Est. Days	21.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	STEVE SLOOP	Measured Depth(ft)	4,938.00
Engineer	BRANDON FOOTE	TVD(ft)	4,882.92
Other Supervisor	JOHNNIE BRASSELL	24 Hr Progress(ft)	0.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,797.00 / 2,769.00	Hole size(in)	12.250
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	20.000in@148.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	9.625in@4,938.00ft
Actual cost to date/AFE	390,487/2,565,881.00	Current MW / BH EMW(ppg)	9.50/
Actual divided by AFE	0.15	LOT/FIT EMW(ppg)	
Daily Cost	177,298	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test	06/27/2017		PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	09/29/2015	637	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	0 12 16 1500
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection			JSA's/Toolbox Talks	16
Last BOP function test			Days Since Last Drill	3
Last BOP Test				
Next BOP Test				

Operations Summary

24 Hour Summary
PAUSE R/U CSG EQUIP, RUN 9.625 CSG T/ 4901', M/U LAND JT WASH T/ 4928' INST CLAMP HANGER CIRC 1.5 CSG VOL, B/O L/D LANDING JT, READY RIG T/ WALK TO UNIVERSITY 19J 0910H, RELEASED @ 09:00.
Update Since Report Time
OFFLINE CMT COMPLETED
24 Hour Forecast

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Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	0.50	SRF1	RIC		4,938.00	0		PAUSE R/U CSG EQUIP
0:30	4.50	SRF1	CLR		4,938.00	0		RUN 9.625 CSG T/ 4901'
5:00	2.00	SRF1	CDM		4,938.00	0		M/U LAND JT WASH T/ 4928' INST CLAMP HANGER CIRC 1.5 CSG VOL, B/O L/D LANDING JT
7:00	2.00	INT1	WLK		4,938.00	0		READY RIG T/ WALK TO UNIVERSITY 19J 0910H, RELEASED @ 09:00 OFFLINE CMT MIX & PUMP 50BBLS H2O 666BBLS LEAD CMT @ 12.8PPG 118BBLS TAIL CMT @ 14.8PPG DROP PLUG / DISPLACE 366BBLS BRINE, PLUG BUMPED 500PSI OVER, FLOAT HELD, TEST CSG 1500PSI, FULL RETURNS DURING JOB EST: 356BBLS CMT TO SURFACE
Total	9.00							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
4,271.00	5.58	210.36	4,221.86	-522.68	-315.18	610.35	0.41	PTW MWD+HDGM_2016
4,450.00	8.75	212.35	4,399.44	-541.69	-326.87	632.67	1.78	PTW MWD+HDGM_2016
4,629.00	7.88	210.20	4,576.56	-563.80	-340.32	658.55	0.52	PTW MWD+HDGM_2016
4,807.00	7.39	207.02	4,752.98	-584.54	-351.66	682.17	0.36	PTW MWD+HDGM_2016
4,874.00	7.25	207.59	4,819.43	-592.13	-355.58	690.69	0.24	PTW MWD+HDGM_2016

Fluid Details

Mud type	NaCl Brine	Oil/Water (%)	pH/Pm (cc)	9.00/0.30
MD (ft)	4,928.00	TS/HGS/LGS (%)	Pf/Mf (cc)	0.10/0.30
Mud Density (ppg)	9.50	Sand (%)	Ca+ (ppm)	
Vis (s/qt)	28.00		Cl- (ppm)	113,000
PV/YP (cp/lbf/100ft²)	1.00/3.000	MBT (lbm/bbl)		
Gels 10 s/m (lb/100ft²)	1.000/1.000	LCM (lbm/bbl)		
API/HTHP WL (cc/30min)	100.0/	ECD (ppg)	R600/300 (°)	
FC/HTHP FC (32nd")	2.0/	H2S (gas unit)	R200/100 (°)	
		KCl (%)	R6/3 (°)	
FL temp. (°F)		Ditch Magnet in Last 24hrs/Cum. (gm)		

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						

Remarks

FUEL ON LOCATION 0 GAL
FUEL DELIVERED: 0 GAL
FUEL USED: 317.7 GAL