

EP WELLS DAILY OPERATIONS REPORT

Report 22

08/05/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 H 0908H
Wellbore	UNIVERSITY 19 H 0908H
WBS No/API No	30257350 / 4230133234.00

Event Summary

Event Type	Drilling only	Event Start Date	05/08/2017	Days on Location	21.63
Objective	Drill - Wolfcamp B1 Shale	Original Spud Date	05/08/2017	Days Since Spud	20.02
Est. Days	22.00	Contractor	PRECISION		
Work Unit	PRECISION 559	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	DENNIS JOHNSON	Measured Depth(ft)	19,180.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	11,694.38
Other Supervisor	TANNER MANUEL	24 Hr Progress(ft)	0.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,792.80 / 2,766.80	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	7.000in@12,111.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@19,180.00ft
Actual cost to date/AFE	2,049,132/2,467,033.93	Current MW / BH EMW(ppg)	13.80/
Actual divided by AFE	0.83	LOT/FIT EMW(ppg)	
Daily Cost	130,180	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	10/12/2016	297	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
MAN HRS: 315							
SPILLED 52 GAL (1.25 BBLs) OF OBM ON GROUND DUE TO LEAKING HOSE & SLUGGING TANK OVERFLOWING.							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection	07/26/2017	10	JSA's/Toolbox Talks	13
Last BOP function test	07/26/2017	10	Days Since Last Drill	
Last BOP Test	08/16/2017			
Next BOP Test				

Operations Summary

24 Hour Summary
RUN LINER WITH 4" DRILL PIPE F/ 11452' - T/ 19180' (WASHED LAST 131'). CIRCULATE BOTTOMS UP. DROP 1.5" BALL & PRESSURE UP ON BALL SEAT & SHEAR. CEMENT 4.5" LINER. SET PACKER @ 11016' & STING OUT OF PACKER WITH 750 PSI OF POSITIVE PRESSURE DOWN DRILLPIPE. CIRCULATE OUT CEMENT (20 BBL OF CEMENT TO SURFACE). TEST PACKER TO 2500 PSI. DISPLACE WELL TO 10 PPG BRINE. PERFORM NEGATIVE TEST. POOH F/ 11016' - T/ SURFACE. LAY DOWN PACKER SETTING TOOL.
Update Since Report Time
PULL BIT GUIDE. INSTALL BPV. N/D CAMERON SPEED HEAD. RELEASE RIG @ 02:30. RIG DOWN BACKYARD. RIG DOWN KOOMEY LINES & BREAK CONNECTIONS ON SUITCASES TO PREPARE FOR SKID.
24 Hour Forecast
SKID RIG UP TO UNIVERSITY 19 PW UNIT 1407H. INSTALL SUITCASE & RIG UP. PICK UP LATERAL BHA. RIH. DISPLACE TO OBM WHILE DRILLING SHOE TRACK. DRILL LATERAL.

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Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	0.50	MNH1	CLR		19,180.00	0		RUN LINER IN HOLE W/ 4" DRILL PIPE. F/ 11452' - T/ 12029'.
0:30	0.50	MNH1	CLR		19,180.00	0		FILL PIPE. BREAK CIRCULATION. RECORD STRING WEIGHTS. P/U 175, SO 150.
1:00	4.00	MNH1	CLR		19,180.00	0		RUN LINER IN HOLE W/ 4" DRILL PIPE. F/ 12029' - T/ 19049'.
5:00	1.00	MNH1	CLR		19,180.00	0		WASH LINER F/ 19049' - T/ 19180'.
6:00	1.50	MNH1	CLR		19,180.00	0		P/U 10' PUP JT TO SPACE OUT ACROSS BOPS.
7:30	2.50	MNH1	CLR		19,180.00	0		CIRCULATE BTMS UP.
10:00	1.00	MNH1	CLR		19,180.00	0		DROP 1.5" BALL. INSTALL CEMENT HEAD & ALLOW BALL TO FALL.
11:00	0.50	MNH1	CLR		19,180.00	0		PRESSURE UP ON BALL SEAT TO 3174 PSI & SHEAR.
11:30	0.50	MNH1	RCC		19,180.00	0		R/U CEMENT LINES T/ CEMENT HEAD. HELD PJSM W/ BAKER CEMENTERS & CREW.
12:00	2.50	MNH1	CEM		19,180.00	0		CEMENT 4.5" LINER TEST LINES @ 8500 PSI PUMP 50 BBL ULTRA FLUSH HV SPACER @ 5 BPM. PUMP CEMENT @ 3.5 BPM: 158 BBLs, 740 SKS OF 14.5# 50:50:2 PREMIUM CLASS H CEMENT. DROP PLUG AND START DISPLACEMENT. DISPLACE W/ 20 BBL OF SUGAR WATER @ 4 BPM. DISPLACE W/ 90 BBL OF 10.0# BRINE @ 4 BPM. DISPLACE W/ 20 BBL OF SUGAR WATER @ 4 BPM. SHEARED PLUG FROM HANGER W/ 7384 PSI DISPLACE W/ 107 BBL OF 13.5# OBM @ 4 BPM. BUMP PLUG @3500 PSI (1000 PSI OVER) HOLD FOR 5 MINS. BLED BACK 2.25 BBL. FLOATS HELD.
14:30	0.50	MNH1	SLP		19,180.00	0		SET PACKER @ 11016'. HELD 750PSI POSITIVE PRESSURE & STUNG OUT OF PACKER.
15:00	1.00	MNH1	SLP		19,180.00	0		CIRCULATE OUT CEMENT. 20 BBL OF CEMENT TO SURFACE. TEST PACKER TO 2500 PSI (GOOD TEST).
16:00	2.00	MNH1	SLP		19,180.00	0		DISPLACE WELL TO 10 PPG BRINE. HOLDING CONSTANT BHP THROUGH CHOKES. PERFORM NEGATIVE TEST. BLED OFF 500 PSI HELD FOR 5 MIN (GOOD TEST). OPEN CHOKES.
18:00	1.00	MNH1	SLP		19,180.00	0		PJSM W/ CREW & BAKER TO L/D CEMENT HEAD & POOH. REMOVE CEMENT HEAD & PUP JT.
19:00	4.50	MNH1	TOH		19,180.00	0		POOH F/ 11016' - T/ SURFACE. FILL HOLE ON BACKSIDE W/ BRINE WATER.
23:30	0.50	MNH1	TOH		19,180.00	0		L/D BAKER RUNNING TOOL.
Total	24.00							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
18,658.00	91.19	351.47	11,691.02	6,698.34	-918.44	6,687.23	5.20	PTW MWD_2016
18,748.00	88.67	349.84	11,691.13	6,787.14	-933.05	6,776.56	3.33	PTW MWD_2016
18,837.00	90.84	352.47	11,691.51	6,875.07	-946.73	6,864.80	3.83	PTW MWD_2016
18,927.00	88.82	349.22	11,691.78	6,963.90	-961.05	6,954.09	4.25	PTW MWD_2016
19,180.00	90.00	350.00	11,694.38	7,212.74	-1,006.67	7,205.73	0.56	PTW MWD_2016

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Fluid Details

Mud type	Invermul	Oil/Water (%)	55.00/16.00	POM (cc)	4.01 597.0
MD (ft)	19,180.00	TS/HGS/LGS (%)	27.20/17.90/9.30	CaCl2 (%)	
Mud Density (ppg)	13.80	Sand (%)		Caom/Clom (ppm)	
Vis (s/qt)	58.00	Oil/Water Ratio (%)	77.50/22.50	ACT	
PV/YP (cp/lbf/100ft ²)	28.00/12.000	LCM (lbm/bbl)		XS Lime(lbm/bbl)	
Gels 10 s/m (lbf/100ft ²)	9.000/16.000	ECD (ppg)		ES (Volts)	
API/HTHP WL (cc/30min)	/5.0	H2S (gas unit)		R600/300 (°)	
FC/HTHP FC (32nd")	/4.0	KCl (%)		R200/100 (°)	
WPS (ppm)	260,141			R6/3 (°)	
FL temp. (°F)					
		Ditch Magnet in Last 24hrs/Cum. (gm)			

Remarks

DIESEL ON LOCATION: 14,521 GAL
DIESEL DELIVERED: GAL
DIESEL USED: GAL
LNG USED: 26.85 MSCF