EP WELLS DAILY OPERATIONS REPORT

Report 8 05/25/2017

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	8.00
Objective	Drill - Wolfcamp B1 Shale	Original Spud Date	05/08/2017	Days Since Spud	6.77
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)	11,560.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	11,407.62
Other Supervisor	ASHLEY HRIVNAK	24 Hr Progress(ft)	921.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,792.80 / 2,766.80	Hole size(in)	8.750
THF Datum			
Daily NPT(hr/%)	0.50/2.08	Last Casing MD	9.625in@5,020.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	7.000in@
Actual cost to date/AFE	560,948/2,467,033.93	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.23	LOT/FIT EMW(ppg)	
Daily Cost	82,324	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**	10/12/2016	225	Safety Card - Unsafe	
Last casing pressure test			**PS BARRIER EVENT**			SSE%	
			PS barrier bowtie review			Last casing pressure(psi)	

Safety Comments:

MAN HOURS: 289

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection			JSA's/Toolbox Talks	
Last BOP function test	05/21/2017	4	Days Since Last Drill	7
Last BOP Test	05/21/2017	4		
Next BOP Test	06/11/2017			

Operations Summary

24 Hour Summary

TIH. INDUCED FLOW. DRILLED F/ 10,639' T/ 11,560'.

Update Since Report Time

DRILLED F/ 11,560' T/ 11,744'. HOLE STARTED TO PACKOFF. CIRCULATING SWEEP.

24 Hour Forecast

DRILL AHEAD TO SECTION TD. CIRCULATE C/U CYCLES. TOOH AND L/D BHA. R/U CASING EQUIPMENT. RUN 7" CASING.

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Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.00	INT1	DRL		10,639.00	0		TIH W/ BHA.
1:00	1.50	INT1	DRL		10,639.00	0		TIH T/ 4,925'.
2:30	0.50	INT1	CUT		10,639.00	0		SLIP AND CUT DRILL LINE.
3:00	0.50	INT1	SVC		10,639.00	0		RIG SERVICE.
3:30	2.50	INT1	DRL		10,639.00	0		TIH F/ 4,925' T/ 7,777'.
6:00	1.00	INT1	DRL		10,639.00	0		FUNCTIONED CROWN SAVER. TIH F/ 7,777' T/ 10,456'.
7:00	0.50	INT1	DRL		10,639.00	1		NPT: DOWNLINK MWD TOOL.
7:30	0.50	INT1	WSS		10,639.00	0		FILL PIPE AND TAG. INDUCE FLOW - PUMP 200 BBL OF FW. CASING PRESSURE - 360 PSI.
8:00	0.50	INT1	WSS		10,639.00	0		CLOSE KILL LINE. PUMP 150 BBL OF ACTIVE MUD DOWN THE DP. SPP - 760 PSI. CASING PRESSURE 350 PSI.
8:30	0.50	INT1	WSS		10,639.00	0		OPEN UP CHOKES. CIRCULATE OUT 200 BBL OF WATER TO RESERVE PIT. WASH DOWN TWO STANDS.
9:00	6.50	INT1	DRL		10,986.00	0		ROTATE DRILL F/ 10,639' - T/ 10,986' (347' @ 53.38 FT/HR) RPM SURFACE 15 MOTOR 224 BIT 239 WOB 20K SPP 2100 PSI GPM 450 TORQUE ON BTM 15 K TORQUE OFF BTM 4 K P/U 298 K S/O 213 K ROT 251 K MUD 9.7 PPG MOTOR REV: .497 GAS: 1350 FLARE: NONE
15:30	0.50	INT1	SVC		10,986.00	0		RIG SERVICE.
16:00	2.00	INT1	DRL		1,115.00	0		ROTATE DRILL F/ 10,986' - T/ 11,115' (129' @ 64.5 FT/HR) RPM SURFACE 20 MOTOR 224 BIT 244 WOB 20K SPP 2,175 PSI GPM 450 TORQUE ON BTM 16 K TORQUE OFF BTM 7 K P/U 298 K S/O 213 K ROT 251 K MUD 9.7 PPG MOTOR REV: .497 GAS: 254 FLARE: NONE
18:00	2.00	INT1	DRL		11,253.00	0		SLIDE DRILL F/ 11,115' - T/ 11,253' (138' @ 69 FT/HR) RPM MOTOR 273 BIT 273 WOB 20 K SPP 2600 PSI GPM 550 P/U 305 K S/O 213 K MUD 9.7 PPG MOTOR REV: .497 GAS: 180 FLARE: NONE
20:00	0.50	INT1	DRL		11,273.00	0		ROTATE DRILL F/ 11,253' - T/ 11,273' (20' @ 40 FT/HR) RPM SURFACE 20 MOTOR 272 BIT 292 WOB 30K SPP 3,000 PSI GPM 550 TORQUE ON BTM 15 K TORQUE OFF BTM 8 K P/U 300 K S/O 213 K ROT 190 K MUD 9.7 PPG MOTOR REV: .497 GAS: 150 FLARE: NONE
20:30	0.50	INT1	DRL		11,342.00	0		SLIDE DRILL F/ 11,273' - T/ 11,342' (69' @ 138 FT/HR) RPM MOTOR 273 BIT 273 WOB 20 K SPP 2600 PSI GPM 550 P/U 305 K S/O 213 K MUD 9.7 PPG

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Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								MOTOR REV: .497 GAS: 180 FLARE: NONE
21:00	1.50	INT1	DRL		11,461.00	0		ROTATE DRILL F/ 11,342' - T/ 11,461' (119' @ 79.33 FT/HR) RPM SURFACE 20 MOTOR 273 BIT 293 WOB 30K SPP 3,000 PSI GPM 550 TORQUE ON BTM 18 K TORQUE OFF BTM 8 K P/U 300 K S/O 213 K ROT 190 K MUD 9.7 PPG MOTOR REV: .497 GAS: 150 FLARE: NONE
22:30	1.00	INT1	DRL		11,520.00	0		SLIDE DRILL F/ 11,461' - T/ 11,520' (59' @ 59 FT/HR) RPM MOTOR 273 BIT 273 WOB 20 K SPP 2600 PSI GPM 550 P/U 340 K S/O 213 K MUD 9.7 PPG MOTOR REV: .497 GAS: 180 FLARE: NONE
23:30	0.50	INT1	DRL		11,560.00	0		ROTATE DRILL F/ 11,520' - T/ 11,560' (40' @ 80 FT/HR) RPM SURFACE 20 MOTOR 273 BIT 293 WOB 30K SPP 3,000 PSI GPM 550 TORQUE ON BTM 18 K TORQUE OFF BTM 8 K P/U 300 K S/O 213 K ROT 190 K MUD 9.7 PPG MOTOR REV: .497 GAS: 150 FLARE: NONE
Total	**24.00**							

NPT Summary

Start Date/Time	Responsible Company	NPT Code	Failure MD (ft)	Ops Code	Type*	Equipment Type	Net time (hr)	Gross time (hr)	Severity	Status
05/25/2017 07:00	PHOENIX TECHNOLOGY SERVICES USA INC	Directional (MWD Measurement While Drilling/gyro)	10,639.00	DRL	EN	MWD Tools	0.50	0.50		OPEN
Description: DOWNLINK MWD TOOL						**Title:** TROUBLESHOOT MWD				
						Total	**0.50**	**0.50**		

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
11,199.00	13.02	353.95	11,095.47	-224.95	924.22	-475.02	14.04	PTW MWD_2016
11,288.00	24.04	347.00	11,179.73	-197.23	919.07	-446.96	12.61	PTW MWD_2016
11,377.00	32.25	345.15	11,258.14	-156.54	908.89	-405.05	9.28	PTW MWD_2016
11,466.00	32.99	343.11	11,333.11	-110.40	895.77	-357.09	1.49	PTW MWD_2016
11,555.00	41.50	343.00	11,403.89	-58.92	880.08	-303.27	9.56	PTW MWD_2016

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Fluid Details

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

Remarks

DIESEL ON LOCATION: 14,707 GAL
DIESEL DELIVERED: 0 GAL
DIESEL USED: 1,562 GAL
LNG USED: GAL