

EP WELLS DAILY OPERATIONS REPORT

Report 20

06/27/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1406H
Wellbore	UNIVERSITY 19 PW UNIT 1406H
WBS No/API No	30264949 / 4230133213.00

Event Summary

Event Type	Drilling only	Event Start Date	04/26/2017	Days on Location	19.54
Objective	Drill - Wolfcamp B1 Shale	Original Spud Date	04/30/2017	Days Since Spud	15.00
Est. Days	25.00	Contractor	PRECISION		
Work Unit	PRECISION 559	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	DENNIS JOHNSON	Measured Depth(ft)	19,615.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	11,698.50
Other Supervisor	ASHLEY HRIVNAK, THERON KNIGHT	24 Hr Progress(ft)	0.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,793.00 / 2,767.00	Hole size(in)	6.125
THF Datum			
Daily NPT(hr/%)	24.00/100.00	Last Casing MD	7.000in@11,968.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@19,578.00ft
Actual cost to date/AFE	1,694,404/2,664,436.41	Current MW / BH EMW(ppg)	13.80/
Actual divided by AFE	0.64	LOT/FIT EMW(ppg)	
Daily Cost	64,555	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	258	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
MAN HOURS: 302							

HSE Drills

Drills/Tests	Date	Days Since Last	JSA's/Toolbox Talks Days Since Last Drill	2
Last Derrick Inspection				
Last BOP function test	06/15/2017	12		
Last BOP Test	06/15/2017	12		
Next BOP Test	07/06/2017			

Operations Summary

24 Hour Summary
POOH W/ BACKREAMING AND PUMPING F/ 17,057' T/ 11,100'. SPOTTED A 173 BBL PILL. POOH F/ 11,100' T/ BHA. L/D BHA.
Update Since Report Time
FINISHED L/D BHA. M/U BHA #5. TIH T/ 2,881' @ 04:00.
24 Hour Forecast
TIH. STAGE OUT PILL. CONTINUE TO TRIP IN HOLE W/ REAMER ASSY. T/ 19,615'. PUMP CLEAN UP CYCLES. POOH.

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Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	6.00	MNH1	TOH		19,615.00	1		NPT: POOH WHILE BACKREAMING AND PUMPING F/ 17,057' 13,937'.
6:00	6.50	MNH1	TOH		19,615.00	1		NPT: POOH WHILE BACKREAMING AND PUMPING F/ 13,937' T/ 11,968'.
12:30	1.50	MNH1	TOH		19,615.00	1		NPT: DOWN LINK MWD TOOL. CBU THROUGH CHOKE.
14:00	1.50	MNH1	TOH		19,615.00	1		NPT: PUMP OUT OH HOLE F/ 11,968' T/ 11,100' THROUGH CHOKE.
15:30	1.50	MNH1	TOH		19,615.00	1		NPT: PUMP 173 BBLS OF 16.8 PPG W/ 56 BBLS OF 13.8 PPG DOWN DRILL PIPE.
17:00	1.00	MNH1	TOH		19,615.00	1		NPT: POOH F/ 11,100' T/ 9,000'.
18:00	5.00	MNH1	TOH		19,615.00	1		NPT: POOH F/ 9,000' T/ BHA.
23:00	1.00	MNH1	TOH		19,615.00	1		NPT: PJSM. L/D BHA.
Total	24.00							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
19,471.00	90.11	164.42	11,698.26	-7,402.02	1,913.01	7,641.41	0.43	PTW MWD+HDGM_2016
19,565.00	89.81	165.41	11,698.33	-7,492.77	1,937.47	7,735.39	1.10	PTW MWD+HDGM_2016
19,565.00	89.81	165.41	11,698.34	-7,492.95	1,936.27	7,735.22	1.10	PTW MWD+HDGM_2016
19,615.00	89.81	165.41	11,698.50	-7,541.16	1,950.07	7,785.37	0.00	PTW MWD+HDGM_2016
19,615.00	89.81	165.41	11,698.51	-7,541.34	1,948.87	7,785.20	0.00	PTW MWD+HDGM_2016

Fluid Details

Mud type	Invermul	Oil/Water (%)	53.50/18.00	POM (cc)		
MD (ft)	19,181.00	TS/HGS/LGS (%)	27.10//	CaCl2 (%)		
Mud Density (ppg)	13.80	Sand (%)	0.20	Caom/Clom (ppm)		
Vis (s/qt)	95.00	Oil/Water Ratio (%)	74.80/25.20	ACT		
PV/YP (cp/lbf/100ft²)	36.00/23.000	LCM (lbm/bbl)		XS Lime(lbm/bbl)		0.78
Gels 10 s/m (lbf/100ft²)	14.000/28.000	ECD (ppg)	13.800	ES (Volts)		448.0
API/HTHP WL (cc/30min)	0.0/	H2S (gas unit)		R600/300 (°)		
FC/HTHP FC (32nd")	0.0/5.0	KCl (%)		R200/100 (°)		
WPS (ppm)	205,213			R6/3 (°)		
FL temp. (°F)		Ditch Magnet in Last 24hrs/Cum. (gm)				

Bit Details

Bit no.	Size (in)	Manufacturer	Model no.	Class	IADC code	Serial no.	Size (32nd")	MD in (ft)	MD out (ft)	IADC Dull Grade
4	6.125	SMITH BITS	X516			JM9909	5x16	11,983.00		-----

Bit Operations

MD (ft)	WOB Min/Max (kip)	Current RPM (rpm)	Flow rate (gpm)	SPP (psi)	P bit (psi)	% @ Bit	HHP (hp)	Hours (hr)	Footage (ft)	ROP (ft/hr)	Hours cum (hr)	Footage cum. (ft)	ROP cum. (ft/hr)

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
5" DP	474	14,911.21	5.000		4.276	XT-39			RIG
SHOCK SUB	1	11.13	5.000		2.000	XT-39			W1838010-2
64 JTS 5" DP	64	2,872.00	5.000		3.340	XT-39			RIG
AGITATOR SHOCK SUB COMBO	1	22.13	5.000		2.000	XT-39			1586707-1/A SA500-013

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Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
36 JTS 5" DP	36	1,612.00	5.000		3.340	XT-39			RIG
6" DOGLEG REAMER	1	4.26	6.000		2.750	XT-39			A1-96857
2 JTS 5" DP	2	90.00	5.000		3.340	XT-39			RIG
FLOAT SUB	1	1.58	4.625		2.687	3 1/2 IF			NESFS475241
FILTER SUB	1	2.88	4.687		2.250	3 1/2 IF			DR28535
NMDC	1	30.69	4.540		2.687	3 1/2 IF			NESNM475598
475 X/O SUB	1	1.67	4.760			3 1/2 IF			VX475041
475 LANDING SUB	1	3.42	5.080			3 1/2 IF			VL475065
475 CENTRALIZER COLLAR ASSY	1	8.37	5.110			3 1/2 IF			VC475029
475 CAP SUB	1	3.77	5.100			3 1/2 IF			VG475096PTS
NMPC	1	13.17	4.687		2.687	3 1/2 IF			NESPC475683
MUD MOTOR 500 NOV 513	1	25.92	5.470			3 1/2 IF			24XH-513001-PTS
RUN #1 BIT #4 6.125" SMITH X516 (5X16'S) SN: JM9909	1	0.80	6.125	6.125		3 1/2 IF			JM9909

Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
06/20/2017 17:00		4	129.79		DRILL 6.125" PRODUCTION HOLE SECTION.

Remarks

DIESEL ON LOCATION: 12,975 GAL
DIESEL DELIVERED: 0 GAL
DIESEL USED: 3,212 GAL
LNG USED: 0 GAL