

EP WELLS DAILY OPERATIONS REPORT

Report 14

06/21/2017

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	13.54
Objective	Drill - Wolfcamp B1 Shale	Original Spud Date	04/30/2017	Days Since Spud	9.00
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)	11,983.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	11,642.86
Other Supervisor	TANNER MANUEL / YU LIU	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,793.00 / 2,767.00	Hole size(in)	8.750
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	9.625in@4,921.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	7.000in@11,992.00ft
Actual cost to date/AFE	1,076,797/2,664,436.41	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.40	LOT/FIT EMW(ppg)	
Daily Cost	92,399	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	252	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
MAN HRS: 458							

HSE Drills

Drills/Tests	Date	Days Since Last	JSA's/Toolbox Talks Days Since Last Drill	13
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test	06/15/2017 06/15/2017 07/06/2017	6 6		

Operations Summary

24 Hour Summary
RUN 7" CASING F/ 2486' - T/ 11519'. WASH 7" CASING F/ 11519' - T/ 11968'. P/U & LAND 7" HANGER. (NO RETURNS) INDUCE FLOW. (RETURNS GAINED). PUMP CEMENT. FLOATS HELD, TEST 7" CASING T/ 2500 PSI FOR 30 MIN. INSTALL & TEST PACKOFF. INSTALL BIT GUIDE. CHANGE OUT SAVER SUB & DIE BLOCKS ON TOP DRIVE. CLEAN PITS TO TAKE ON OBM.
Update Since Report Time
FINISH CHANGING OUT DIE BLOCKS ON TOP DRIVE. FINISH CLEANING PITS. STAGE BHA. R/D BACKYARD. SLIP & CUT DRILL LINE.
24 Hour Forecast
P/U BHA.TIH WITH LATERAL BHA. FILL PITS WITH OBM. DISPLACE BRINE WITH OBM. DRILL OUT SHOE TRACK & DRILL LATERAL SECTION.

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Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	6.00	INT1	CLR		11,983.00	0		RUN 7" CASING (29# LTC P110) F/ 2486' - T/ 8523'. FILLING EVERY 30 JTS. (NO RETURNS)
6:00	3.00	INT1	CLR		11,983.00	0		RUN 7" CASING (29# LTC P110) F/ 8523' - T/ 11519'. (NO RETURNS)
9:00	2.00	INT1	CLR		11,983.00	0		WASH 7" CASING (29# LTC P110) F/ 11519 - T/ 11968'. FILLING EVERY 30 JTS. (NO RETURNS).
11:00	0.50	INT1	CLR		11,983.00	0		P/U & M/U HANGER. LAND. (PUMP 150 BBLs DOWN CASING)
11:30	1.50	INT1	RCC		11,983.00	0		BREAK OUT X OVER & R/U CEMENT HEAD & LINES.
13:00	1.00	INT1	RCC		11,983.00	0		INDUCE WELL. (PUMP 160 BBL OF FRESH WATER DOWN BACKSIDE '290 CASING PSI') OPEN WELL & PUMP 187 BBLs DOWN CASING. GAINED RETURNS.
14:00	3.00	INT1	CEM		11,983.00	0		HOLD PJSM W/ BAKER CEMENTERS & CREW. CEMENT 7" CSG HELD PJSM WITH BAKER CEMENTERS. TEST LINES T/4500 PSI. PUMP 50 BBL FRESH WATER SPACER @ 5 BPM. PUMP LEAD CEMENT @ 6 BPM: 187 BBLs, 285 SKS OF 11# 35:65:6 PREMIUM CLASS C CEMENT. PUMP TAIL CEMENT @ 6 BPM: 100 BBLs, 465 SKS OF 14.5# PREMIUM CLASS H CEMENT. DROP TOP PLUG AND START DISPLACEMENT. DISPLACE W/ 20 BBL OF FRESH WATER @ 7 BPM DISPLACE W/ 401 BBL OF 9.9PPG BRINE @ 7 BPM DISPLACE W/ 20 BBL OF FRESH WATER @ 3 BPM BUMP PLUG TEST PLUG W/ 500 PSI OVER CIRC PRESSURE. HOLD FOR 1 MIN. TEST CASING T/ 2500 PSI FOR 30 MIN. GOOD TEST. BLED BACK 2 BBL. FLOATS HELD.
17:00	0.50	INT1	SLP		11,983.00	0		WELL FLOWING. BULLHEAD WITH 30 BBLs OF 12.8 PPG KILL MUD. (NO FLOW)
17:30	0.50	INT1	SLP		11,983.00	0		R/D CEMENT LINES & CEMENT HEAD.
18:00	3.50	INT1	SLP		11,983.00	0		REMOVE CASING LANDING LT. DRAIN STACK. INSTALL PACKOFF & TEST. (250 PSI LOW TEST FOR 5 MIN; 10000 PSI HIGH TEST FOR 10 MIN.) (GOOD TEST). CLEANING PITS.
21:30	1.50	INT1	SLP		11,983.00	0		REMOVE ALL 5" TOOLS & EQUIPMENT FROM FLOOR. BRING 4" HANDLING TOOLS TO FLOOR. INSTALL BIT GUIDE. CLEANING PITS.
23:00	1.00	INT1	SLP		11,983.00	0		REPLACE 4.5 IF SAVER SUB WIT XT-39 SAVER SUB. REPLACE GRABBER BLOCKS & GUIDE. R/D BACKYARD. CLEANING PITS
Total	24.00							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
11,824.00	69.39	160.65	11,613.81	-62.02	-183.81	7.94	11.45	PTW MWD+HDGM_2016
11,913.00	80.64	160.20	11,636.79	-142.89	-155.04	93.63	12.65	PTW MWD+HDGM_2016
11,913.00	80.64	160.97	11,636.79	-143.25	-156.43	93.59	12.65	PTW MWD+HDGM_2016
11,965.00	87.50	161.00	11,642.16	-192.12	-139.59	145.22	13.19	PTW MWD+HDGM_2016
11,983.00	88.00	161.00	11,642.86	-209.12	-133.73	163.18	2.78	PTW MWD+HDGM_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: 13858 GAL
DIESEL DELIVERED: GAL
DIESEL USED: 714 GAL
LNG USED: GAL