

EP WELLS DAILY OPERATIONS REPORT

Report 22

08/25/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1404H
Wellbore	UNIVERSITY 19 PW UNIT 1404H
WBS No/API No	30265150 / 4230133215.00

Event Summary

Event Type	Drilling only	Event Start Date	06/16/2017	Days on Location	21.92
Objective	Drill - Wolfcamp B1 Shale	Original Spud Date	06/17/2017	Days Since Spud	19.58
Est. Days	22.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	STEVE SLOOP	Measured Depth(ft)	21,139.00
Engineer	BRANDON FOOTE	TVD(ft)	11,610.17
Other Supervisor	JOHNNIE BRASSELL	24 Hr Progress(ft)	0.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.10 / 2,772.10	Hole size(in)	6.125
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	7.000in@11,969.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@21,085.00ft
Actual cost to date/AFE	2,255,231/2,770,860.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.81	LOT/FIT EMW(ppg)	
Daily Cost	254,945	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test	06/19/2017		PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	09/29/2015	696	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	1 9 16 1500

Safety Comments:

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection	08/21/2017	4	JSA's/Toolbox Talks	17
Last BOP function test	08/07/2017	18	Days Since Last Drill	6
Last BOP Test	08/28/2017			
Next BOP Test				

Operations Summary

24 Hour Summary
RUNNING 4.5 LINER T/ 10141', PAUSE M/U HANGER R/D CSG CREW, TIH/ 10320' INST ROT-HEAD, PUMP LINER CAP, TIH W/ LINER ON DP T/ 21134', CIRC B/U & LINER CAP, DROP BALL M/U CMT HEAD PUMP BALL TO SEAT SET HANGER W/3000PSI & 115K DOWN, PAUSE R/U CMT EQUIP, CMT AS PER PLAN, SET PACKER P/U T/ 210K SHEARED OFF @ 55K DOWN, STING OUT C/BU OFF TOP OF LINER @10965' 5BBLs CMT BACK, POSITIVE TEST LINER TOP @ 2500PSI GOOD TEST, DISP 13.9PPG OBM W/ 10.0 BRINE @ 50SPM WITH CONSTANT BOTTOM HOLE PRESSURE @ 2650PSI, WELL STATIC, L/D WEATHERFORD CMT HEAD, TOH T/ 1400'
Update Since Report Time
RIGGING UP ON UNIVERSITY 19 PW UNIT 1403H
24 Hour Forecast
CONT R/U ON 1403H TEST BOPS M/U BHA TIH DRLG SHOE TRACK

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Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.50	MNH1	CLR		21,139.00	0		RUNNING 4.5 LINER T/ 10141'
1:30	0.50	MNH1	CBU		21,139.00	0		PAUSE M/U HANGER R/D CSG CREW
2:00	0.50	MNH1	TIH		21,139.00	0		TIH/ 10320' INST ROT-HEAD
2:30	1.00	MNH1	CDM		21,139.00	0		PUMP LINER CAP @ 150GPM 1100PSI
3:30	6.50	MNH1	TIH		21,139.00	0		TIH W/ LINER ON DP T/ 21134'
10:00	1.00	MNH1	CBU		21,139.00	0		CIRC B/U & LINER CAP.
11:00	1.50	MNH1	CLR		21,139.00	0		DROP BALL M/U CMT HEAD PUMP BALL TO SEAT SET HANGER W/3000PSI & 115K DOWN
12:30	0.50	MNH1	RCC		21,139.00	0		PAUSE R/U CMT EQUIP
13:00	3.00	MNH1	CEM		21,139.00	0		CMT AS PER PLAN MIX AND PUMP TEST LINES 8500' PUMP 50BBLS SPACER @ 14.0PPG 202BBLS LEAD CMT @ 14.5PPG DROP DART DISP WITH 10BBLS SUGAR WATER 110BBLS OBM @ 13.9PPG 135BBLS BRINE @ 10.0PPG 30BBLS FRESH WATER PLUG BUMPED @ 3500PSI 900PSI OVER FLOAT HELD, 4BBLS BACK
16:00	0.50	MNH1	SLP		21,139.00	0		SET PACKER P/U T/ 210K SHEARED OFF @ 55K DOWN
16:30	0.50	MNH1	CBU		21,139.00	0		STING OUT C/BU OFF TOP OF LINER @10965' 5BBLS CMT BACK
17:00	0.50	MNH1	SLP		21,139.00	0		POSITIVE TEST LINER TOP @ 2500PSI GOOD TEST
17:30	3.00	MNH1	CDM		21,139.00	0		DISP 13.9PPG OBM W/ 10.0 BRINE @ 50SPM HOLDING CONSTANT BOTTOM HOLE PRESSURE @ 2650PSI, SHUT WELL IN, NO BUILD UP IN 5 MINS, BLEED DOWN TO 2150PSI NO BUILD UP IN 10MINS, BLEED TO 0, OPEM WELL IS STATIC.
20:30	0.50	MNH1	LCH		21,139.00	0		L/D WEATHERFORD CMT HEAD
21:00	3.00	MNH1	TOH		21,139.00	0		TOH T/ 1400'
Total	24.00							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
20,880.00	93.09	158.33	11,623.30	-8,915.51	2,490.88	9,256.90	0.57	PTW MWD+HDGM_2016
20,974.00	93.07	158.79	11,618.25	-9,002.88	2,525.19	9,350.30	0.49	PTW MWD+HDGM_2016
21,068.00	92.98	157.79	11,613.29	-9,090.09	2,559.91	9,443.67	1.07	PTW MWD+HDGM_2016
21,091.00	92.43	158.08	11,612.20	-9,111.38	2,568.54	9,466.50	2.70	PTW MWD+HDGM_2016
21,139.00	92.43	158.08	11,610.17	-9,155.87	2,586.44	9,514.18	0.00	PTW MWD+HDGM_2016

Fluid Details

Mud type	Invermul	Oil/Water (%)	POM (cc)
MD (ft)		TS/HGS/LGS (%)	CaCl2 (%)
Mud Density (ppg)		Sand (%)	Caom/Clom (ppm)
Vis (s/qt)		Oil/Water Ratio (%)	ACT
PV/YP (cp/lbf/100ft²)			XS Lime(lbm/bbl)
Gels 10 s/m (lbf/100ft²)		LCM (lbm/bbl)	ES (Volts)
API/HTHP WL (cc/30min)		ECD (ppg)	R600/300 (°)
FC/HTHP FC (32nd")		H2S (gas unit)	R200/100 (°)
WPS (ppm)		KCl (%)	R6/3 (°)
FL temp. (°F)		Ditch Magnet in Last 24hrs/Cum. (gm)	

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Gas Concentrations and Fluid Losses

Avg Connection Gas (gas unit)	Avg. trip gas (gas unit)	Losses Last 24 Hours/Cumulative...	
Max. connection gas (gas unit)	Max. trip gas (gas unit)	Surface Losses (bbl)	/0.00
Avg. background gas (gas unit)	Avg H2S Gas (gas unit)	Sub Surface Losses (bbl)	/0.00
Max. background gas (gas unit)	Max H2S Gas (gas unit)	Total Losses	0.00/0.00
		End vol. (bbl)	0.00

Bulks Summary

Product	Quantity Onboard	Units	Daily Usage
Diesel	-14,522.00	GAL	0.00

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: 15688 GAL
FUEL USED (RIG): 1696 GAL
FUEL USED (PITS): 0 GAL
FUEL DELIVERED: 0 GAL