

Daily Drilling Report

Well ID: 42-383-39868

Field: Impossible

SEM Operating Company, LLC

Well Name: University 9 2901WB

Sect: 29 County: Reagan State: TX

Report No: 19

Report For 06:00 AM 04-Jul-17

Operator: SEM		Rig: H&P 467		Spud Date:		Daily Cost / Mud (\$): 50,629 / 16,097	
Measured Depth (ft): 16438		Drilling Days (act.): 19		Well Bore: Original Well Bore		AFE No. AFE (\$) Actual (\$)	
Vertical Depth (ft): 8195		Drilling Days (plan):		RKB Elevation (ft): 0.00		041517 6,063,125 1,605,518	
Proposed TD (ft):		Days On Location: 19		Last BOP Test: 26-Jun-17			
Hole Made (ft) / Hrs: 582 / 7.0		Last Casing: 9.63 at 7,526				Totals: 6,063,125 1,605,518	
Average ROP (ft/hr): 83.14		Next Casing:		Working Interest:		Well Cost (\$): 1,605,518	
Pers/Hrs:	Operator: 2 / 24	Contractor: 11 / 132	Service: 7 / 84	Other:	0 / 0	Total: 20 / 240	

SafetySummary: No incidents or events reported. 18 days since LTI. Conducted Safety Meeting.

Current Operations: LAY DOWN DRILLPIPE

Planned Operations: FINISH LAYDOWN PIPE AND RUN CASING AND CEMENT

Toolpusher: JUAN CANTU

Wellsite Supervisors: GUY EMBRY, TONY KARL

Tel No.:

Operations Summary

From	To	Elapsed	End MD(ft)	Code	Operations Description	Non-Prod
6:00	13:00	7.00	16,438	DRILS	ROTATE AND SLIDE DRILL FROM 15856 TO 16438 TF 120-R, GPM 500, PSI 3360, DIFF 300, WOB 34	
13:00	17:00	4.00	16,438	CIRC	CIRCULATE AND CONDITION MUD AT TD, PUMP 3 HI VIS SWEEPS, HOLE CLEAN	
17:00	6:00	13.00	16,438	DPLD	PULL 10 STDS AND LAYDOWN DRILLPIPE	

Management Summary

SURVEY - 16365' 92.92 INC, .2 AZM 1' HIGH 61' LEFT

Casing/Tubular Information

Type	Size (ins)	Top MD (ft)	Top TVD (ft)	Bottom MD (ft)	Bottom TVD (ft)	Hole Section	OH Diam. (ins)	Nom. Wgt. (lbs)	Nominal Grade	LOT (lbs/gal)
FULL	13.38	0		745		SURF	17.50	54.50	J-55	
FULL	9.63	0		7,526			12.25	40.00	L-80	

Cost/AFE Information

AFE No	AFE Description	AFE Amount	Daily Mud	Well Mud	Daily Total	Well Total	% Spent
041517	D & C 7500' lateral horizontal we	6,063,125.00	16,096.80	123,549.61	50,628.80	1,605,517.71	26.48 %
Totals \$:		6,063,125.00	16,097.00	123,550.00	50,629.00	1,605,518.00	26.48 %

Mud Information

%													Gels			Temp		Mud		
Dens.	Vis	PV	YP	Filt.	Cake	pH/ES	Solids	Oil	Water	Sand	LGS	Cl	Ca	CaCl	10s	10m	30m	In	Out	Loss
03-Jul-17 12:00 at Depth 16,326 ft Mud Pits, Type: Oil Base Mud																				
10.40	77.00	7.00	1.00	10	2		10.2	58.3	24.9			50000		25000	10	23	10	26.00	37.00	

Mud Consumables

Item Description			Qty.	Cost	Item Description			Qty.	Cost
AES WA II - EA			137	1,353.56	Barite (Bulk) - EA			797	8,743.09
BLUE MAX - 5GAL			2	85.66	CaCL2 - 50#SK			14	204.82
Claytone II - 50#SK			3	297.21	ENGINEER - EA			1	800.00
ENGINEERing diem - EA			1	50.00	FIR 50 - 50#SK			15	1,614.30
Lime - 50#SK			25	178.50	Liquid Mud rental - EA			105	210.00
Petrogel 400 - 50#SK			2	168.66	Trucking (CWT) - EA			797	2,391.00

Bit/BHA/Workstring Information

				Depth		This Run		R.O.P.		Mud				Pump					
No	Run	Make	Model	Diam	In	Dist	Hrs	Avg	Max	WOB	RPM	Torque	Wt	Flow	Press	J. Vel	P. Drp	HHP	JIF
3	1	ULTERI	U616M	8.75	8516	7,922	80.5	98.4	83.0	30.00	65	18.00							
Jets: 22 22 22 22 22 22					Out:		Grade: Cutter: /		Dull: /		Wear:		Brgs:		Gge:		Pull:		
BHA - No. 3 - BIT, MMTR, UBHO, NMDC, NMFLEX, XO = 96.06																			

Drilling Parameters


Depth (ft)		ROP (ft/hr)		WOB (lbs)		RPM		Torque (ft lbs)		Flow (gals/min)		Pressure	
From	To	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	(psi)	
15,856	16,438	83.0	83.0	30.00	30.00	65	65	18.00	19.00	600.00	600.00		
Annular Velocity:		Drill Collars:		192.1		Drill Pipe:		192.1					

Miscellaneous Drilling Parameters

Hook Loads (lbs):	Off Bottom Rotate:	179.00	Pick Up:	220.00	Slack Off:	160.00	Drag Avg/Max:	41 / 45
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Survey Information

Survey Type	Meas. Depth	Inc.	Azimuth	TVD	Closure	Vertical Section	Coordinates		
							N-S	E-W	D.L.S.
MWD	15,800.0	89.98	359.6	8,193.5	7,965.8	7,965.7	N 7963.1	E 209.2	3.07
MWD	15,894.0	89.54	359.6	8,193.9	8,059.8	8,059.7	N 8057.1	E 208.6	0.47
MWD	15,988.0	90.37	0.6	8,194.0	8,153.8	8,153.6	N 8151.1	E 208.7	1.35
MWD	16,082.0	90.64	0.2	8,193.2	8,247.7	8,247.6	N 8245.1	E 209.3	0.47
MWD	16,177.0	91.34	359.8	8,191.5	8,342.7	8,342.6	N 8340.1	E 209.3	0.87
MWD	16,271.0	92.40	0.2	8,188.5	8,436.6	8,436.5	N 8434.0	E 209.2	1.22
MWD	16,365.0	92.92	0.2	8,184.1	8,530.5	8,530.4	N 8527.9	E 209.6	0.55

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Report No: 19		Report For 06:00 AM 04-Jul-17												
Mud Log Information														
Depth (ft)		TVD (ft)		Gas (Units)			Gas		Drilling	Pore	Mud	Shale	ROP	
From	To	From	To	Avg	Max	at Depth	Connect.	Trip	Exp.	Press	Dens.	Dens.	Shale	Sand
15,856	16,438	8,193	8,184	473.00	733.00	15812	421.00				10.40		83	
Formation Name:														
Lithology: 90 % SHALE 10% LIMESTONE														
Rig Information														
Equipment Problems: NONE														
Location Condition:														
Transport:														
Solids Control Information														
Screen Sizes:		Top	Middle 1	Middle 2	Bottom	Equipment Usage (Hrs):								
Shaker No 1:		200	200	200	200									
Shaker No 2:		200	200	200	200	Centrifuge 1: 10 (Solids Removal)					Centrifuge 2: 4 (Solids Removal)			
Shaker No 3:		200	200	200	200									
Bulk Inventory														
Item Type					Units	Beginning	Used	Received		On Hand		Net		
Fuel					GALS	7,332	1,930			5,402				
Office trailer generator					GALS	292	40			252				
Mud					GALS	6,703	2,844			3,859				
Safety Information														
Meetings/Drills			Time		Description									
Safety			30		TOH									
First Aid Treatments:				Medical Treatments:				Lost Time Incidents:				Days Since LTI: 18		
<input type="checkbox"/> BOP Test			<input type="checkbox"/> Crownamatic Check											
Weather Information														
Sky Condition: CLEAR						Visibility:		10						
Air Temperature: 90.00 degF						Bar. Pressure:								
Wind Speed/Dir: 15 / SSW						Wind Gusts:		25						
Rental Tools Information														
Type	Description				Serial No.		Vendor	Acct Code	Today's Cost \$		Start	End		
Trailer	HOUSING						TREND	9240-01	900.00		15-Jun-17			
Notes: 4 TRAILERS														
Frac Tanks	FRAC TANKS						THORPE	9245-01	175.00		15-Jun-17			
Notes: 7 FRAC TANKS														
PVT	RIG SENSE						TOTCO	9240-01	388.00		15-Jun-17			
Light Tower	LIGHT TOWERS						CACTUS	9240-01	125.00		15-Jun-17			
Notes: 5 LIGHT PLANTS														
OBM Control	CENTRIFUGES						DES	9210-01	3,050.00		15-Jun-17			
Frac Tanks	OBM STORAGE						PURITY	9210-01	489.00		15-Jun-17			
Notes: 5 TANKS AND MANIFOLD														
SPOOLS	BOP SPACER SPOOL						MONAHANS	9240-01	110.00		15-Jun-17			
Trans. Pump	TRANS PUMP						TIGER	9240-01	255.00		15-Jun-17			
Notes: 3 TIGER 4X4 PUMPS														
H2S	AMPRO H2S						AMPRO	9240-01	100.00		15-Jun-17			
Rotating Hd.	ROT HEAD						AIR DRIL	9240-01	120.00		15-Jun-17			
Mud Bucket	mud bucket						STABIL	9241-01	110.00		15-Jun-17			
Rig Vac	MUD VACUME						KSW	9241-01	200.00		15-Jun-17			
Notes: MUD VAC/SHAKER WASHER														
Containment	KATCH KAN						KATCH	9240-01	150.00		27-Jun-17			
Notes: KATCH KAN														
Total Daily Rental Cost \$:										6,172.00				