



# 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: 18

Report For 06:00 AM 03-Jul-17

Operator:	SEM	Rig:	H&P 467	Spud Date:		Daily Cost / Mud (\$):	48,729 / 14,197
Measured Depth (ft):	15856	Drilling Days (act.):	18	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 1,554,889
Proposed TD (ft):		Days On Location:	18	Last BOP Test:	26-Jun-17		
Hole Made (ft) / Hrs:	1,792 / 20.5	Last Casing:	9.63 at 7,526			Totals:	6,063,125 1,554,889
Average ROP (ft/hr):	87.41	Next Casing:		Working Interest:		Well Cost (\$):	1,554,889
Pers/Hrs:	Operator: 2 / 24	Contractor:	11 / 132	Service:	7 / 84	Other:	0 / 0
						Total:	20 / 240

SafetySummary: No incidents or events reported. 17 days since LTI. Conducted Safety Meeting.

Current Operations: DRLG LATERAL AT 15856'

Planned Operations: CONT DRLG LATERAL TO TD

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	7:00	1.00	14,094	DRILS	SLIDE DRILL FROM 14064 TO 14094 TF 145 -R, GPM 600, PSI 3890, DIFF 180, WOB 65.	
7:00	8:00	1.00	14,168	DRILR	ROTATE DRILL FROM 14094 TO 14168', WOB 28, RPM 90, TORQ 12, GPM 600, PSI 4030, DIFF 486	
8:00	8:30	0.50	14,208	DRILS	SLIDE DRILL FROM 14168' TO 14208 TF 45 -R, GPM 500, PSI 3950, DIFF 220, WOB 45.	
8:30	10:00	1.50	14,358	DRILR	ROTATE DRILL FROM 14208 TO 14358', WOB 28, RPM 90, TORQ 15, GPM 600, PSI 4300, DIFF 463	
10:00	11:00	1.00	14,421	DRILS	SLIDE DRILL FROM 14358 TO 14421 TF 180 -R, GPM 600, PSI 4300, DIFF 300, WOB 55.	
11:00	12:00	1.00	14,550	DRILR	ROTATE DRILL FROM 14421 TO 14550', WOB 28, RPM 90, TORQ 15, GPM 600, PSI 4300, DIFF 340	
12:00	13:00	1.00	14,617	DRILS	SLIDE DRILL FROM 14550 TO 14617 TF 145 -R, GPM 600, PSI 4150, DIFF 315, WOB 55.	
13:00	15:00	2.00	14,734	DRILR	ROTATE DRILL FROM 14617 TO 14734', WOB 28, RPM 90, TORQ 15, GPM 600, PSI 4300, DIFF 500	
15:00	15:30	0.50	14,764	DRILS	SLIDE DRILL FROM 14734 TO 14764 TF 45 -R, GPM 600, PSI 4050, DIFF 227, WOB 60.	
15:30	16:30	1.00	14,764	DRILR	ROTATE DRILL FROM 14764 TO 14913', WOB 28, RPM 90, TORQ 15, GPM 600, PSI 4650, DIFF 650	
16:30	17:00	0.50	14,764	SERV	SERVICE RIG	
17:00	19:00	2.00	115,148	DRILR	ROTATE DRILL FROM 14913 TO 15148', WOB 28, RPM 60, TORQ 18, GPM 600, PSI 4650, DIFF 650	
19:00	19:30	0.50	15,173	DRILS	SLIDE DRILL FROM 15148 TO 15173 TF 140 -R, GPM 500, PSI 3300, DIFF 250, WOB 46	
19:30	20:00	0.50	15,196	DRILR	ROTATE DRILL FROM 15173 TO 15196', WOB 28, RPM 60, TORQ 18, GPM 600, PSI 4650, DIFF 650	
20:00	23:00	3.00	15,196	CIRC	CLEAN-UP CYCLE, CIRC 3 SWEEPS WHILE WORKING PIPE START WITH 600 GPM= 4050 PSI W/ 9 TQ END W/ 600 GPM= 3920 PSI W/ 6 TQ	
23:00	23:30	0.50	15,232	DRILR	ROTATE DRILL FROM 15196 TO 15232', WOB 22, RPM 60, TORQ 16, GPM 600, PSI 4560, DIFF 650	
23:30	0:30	1.00	15,572	DRILS	SLIDE DRILL FROM 15232 TO 15572 TF 120-R, GPM 500, PSI 3360, DIFF 300, WOB 34	
0:30	6:00	5.50	15,856	DRILR	ROTATE DRILL FROM 15572' TO 15856', WOB 30, RPM 60, TORQ 18, GPM 600, PSI 4560, DIFF 650 LAST SURVEY 15706' 91.16 INC 2.22 AZM 8194 TVD 3' LOW 51 LEFT	

## Management Summary

15706' 91.16 INC 2.22 AZM TVD 8194' 3' LOW AND 51' 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	



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## 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	14,196.78	107,452.81	48,728.78	1,554,888.91	25.65 %
Totals \$:		6,063,125.00	14,197.00	107,453.00	48,729.00	1,554,889.00	25.65 %

## Mud Information

																	Gels			Temp		Mud
%																	10m	30m	In	Out	Loss	
Dens.	Vis	PV	YP	Filt.	Cake	pH/ES	Solids	Oil	Water	Sand	LGS	CI	Ca	CaCl	10s							
02-Jul-17 22:00 at Depth 15,196 ft Mud Pits, Type: Oil Base Mud																						
10.40	73.00	5.00	5.00	6	2		8.7	58.9	24.9			51000		25000	13	23	6	26.00	37.00			

## Mud Consumables

Item Description			Qty.	Cost	Item Description			Qty.	Cost
ABS MUL - GALS			275	2,571.25	AES VIS LS (50) - SACK			4	365.52
Barite (Bulk) - EA			600	6,582.00	BLUE MAX - 5GAL			8	342.64
CaCL2 - 50#SK			32	468.16	Claytone II - 50#SK			13	1,287.91
ENGINEER - EA			1	750.00	ENGINEERING diem - EA			1	50.00
FIR PLUS - 50#SK			15	1,614.30	Lime - 50#SK			25	165.00

## 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	ULTE	RI	U616M	8.75	8516	7,340	73.5	99.9																
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 (psi)	
From	To	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max		
14,064	15,856	89.6	197.0	28.00	32.00	65	90	17.00	19.00	600.00	600.00	4,650.00	
Annular Velocity:		Drill Collars:		192.1	Drill Pipe:		192.1						

## Miscellaneous Drilling Parameters

Hook Loads (lbs):		Off Bottom Rotate:		179.00	Pick Up:		228.00	Slack Off:		160.00	Drag Avg/Max:		45 / 50
Slow Circulation Data:													
Pump 1:		60 spm		700 psi		40 spm		520 psi		20 spm		370 psi	
Pump 2:		60 spm		690 psi		40 spm		520 psi		20 spm		360 psi	



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## Survey Information

Survey Type	Meas. Depth	Inc.	Azimuth	TVD	Closure	Vertical Section	Coordinates		D.L.S.
							N-S	E-W	
MWD	13,914.0	90.86	354.6	8,206.8	6,082.0	6,081.6	N 6078.8	E 198.3	1.14
MWD	14,008.0	93.67	356.8	8,203.1	6,175.4	6,175.1	N 6172.5	E 191.2	3.79
MWD	14,102.0	92.35	358.6	8,198.1	6,269.0	6,268.7	N 6266.2	E 187.4	2.42
MWD	14,197.0	92.40	0.5	8,194.2	6,363.9	6,363.6	N 6361.2	E 186.7	1.95
MWD	14,291.0	92.09	1.3	8,190.5	6,457.8	6,457.6	N 6455.1	E 188.1	0.98
MWD	14,385.0	91.43	2.0	8,187.6	6,551.8	6,551.5	N 6549.0	E 190.8	0.96
MWD	14,479.0	90.11	3.3	8,186.4	6,645.7	6,645.5	N 6642.9	E 195.1	1.99
MWD	14,574.0	89.14	0.5	8,187.0	6,740.7	6,740.4	N 6737.8	E 198.3	3.13
MWD	14,668.0	87.12	358.7	8,190.0	6,834.6	6,834.3	N 6831.7	E 197.6	2.85
MWD	14,762.0	88.35	358.7	8,193.8	6,928.4	6,928.2	N 6925.6	E 195.5	1.31
MWD	14,857.0	88.75	359.6	8,196.2	7,023.3	7,023.1	N 7020.6	E 194.1	1.02
MWD	14,951.0	90.51	0.2	8,196.8	7,117.2	7,117.1	N 7114.6	E 193.9	1.98
MWD	15,045.0	92.88	0.8	8,194.0	7,211.2	7,211.0	N 7208.5	E 194.7	2.61
MWD	15,140.0	92.88	0.6	8,189.2	7,306.0	7,305.9	N 7303.4	E 195.9	0.28
MWD	15,234.0	89.76	359.5	8,187.0	7,400.0	7,399.8	N 7397.4	E 195.9	3.50
MWD	15,328.0	88.40	1.4	8,188.6	7,493.9	7,493.8	N 7491.4	E 196.7	2.51
MWD	15,423.0	88.40	1.6	8,191.2	7,588.9	7,588.8	N 7586.3	E 199.2	0.19
MWD	15,517.0	89.23	2.2	8,193.2	7,682.9	7,682.7	N 7680.2	E 202.3	1.10
MWD	15,611.0	89.01	1.1	8,194.6	7,776.9	7,776.7	N 7774.2	E 205.0	1.24
MWD	15,706.0	91.16	2.2	8,194.5	7,871.9	7,871.7	N 7869.1	E 207.8	2.56

## Mud Log Information

Depth (ft)		TVD (ft)		Gas (Units)		Gas		Drilling Exp.	Pore Press	Mud Dens.	Shale Dens.	ROP	
From	To	From	To	Avg	Max	at Depth	Connect.					Shale	Sand
14,064	15,711	8,190	8,191	461.00	815.00	15092	762.00	0.00		10.40		118	

Formation Name:

Lithology: 90% SHALE 10% LIMESTONE

## Rig Information

Equipment Problems: NONE

Location Condition: GOOD

Transport:

## Solids Control Information

Screen Sizes:	Top	Middle 1	Middle 2	Bottom	Equipment Usage (Hrs):	
Shaker No 1:	200	200	200	200	Centrifuge 1: 22	Centrifuge 2: 4
Shaker No 2:	200	200	200	200		
Shaker No 3:	200	200	200	200		

## Bulk Inventory

Item Type	Units	Beginning	Used	Received	On Hand	Net
Fuel	GALS	3,208	3,009	7,133	7,332	4,124
Office trailer generator	GALS	332	40	0	292	-40
Mud	GALS	2,754	2,990	6,939	6,703	3,949

## Safety Information

Meetings/Drills	Time	Description
Safety	30	PPE
First Aid Treatments:		Medical Treatments:
Lost Time Incidents:		Days Since LTI: 17
<input type="checkbox"/> BOP Test	<input type="checkbox"/> Crownamatic Check	



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## Weather Information

Sky Condition:	CLEAR	Visibility:	10
Air Temperature:	90.00 degF	Bar. Pressure:	
Wind Speed/Dir:	10 / SSW	Wind Gusts:	20

## 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