

**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: 14

Report For 06:00 AM 29-Jun-17

Operator:	SEM	Rig:	H&P 467	Spud Date:		Daily Cost / Mud (\$):	39,750 / 5,218
Measured Depth (ft):	8516	Drilling Days (act.):	14	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 1,332,018
Proposed TD (ft):		Days On Location:	14	Last BOP Test:	26-Jun-17		
Hole Made (ft) / Hrs:	367 / 21.5	Last Casing:	9.63 at 7,526			Totals:	6,063,125 1,332,018
Average ROP (ft/hr):	17.07	Next Casing:		Working Interest:		Well Cost (\$):	1,332,018
Pers/Hrs:	Operator: 2 / 24	Contractor:	11 / 132	Service:	7 / 84	Other:	0 / 0
						Total:	20 / 240

Safety Summary: No incidents or events reported. 13 days since LTI. Conducted Crown Check, Safety Meeting.

Current Operations: TOO H FOR LATERAL BHA @ 8,516'

Planned Operations: TOO H CHANGE OUT BHA TIH DRILL

Toolpusher: JUAN CANTU

Wellsite Supervisors: GUY EMBRY, RICKY POINDEXTER

Tel No.:

Operations Summary

From	To	Elapsed	End MD(ft)	Code	Operations Description	Non-Prod
6:00	7:00	1.00	8,170	DRILR	ROTATE DRILL FROM 8,149' TO 8,170', WOB 35, RPM 20, GPM 500, PSI 2650, DIFF 160, TORQ 5K	
7:00	8:00	1.00	8,180	DRILS	SLIDE DRILL FROM 8,170' TO 8,180', TF - HS, GPM 500, PSI 2550, DIFF 140, WOB 40	
8:00	9:00	1.00	8,202	DRILR	ROTATE DRILL FROM 8,180' TO 8,202', WOB 35, RPM 20, GPM 500, PSI 2650, DIFF 160, TORQ 5K	
9:00	10:00	1.00	8,212	DRILS	SLIDE DRILL FROM 8,202' TO 8,212', TF - 20L, GPM 500, PSI 2550, DIFF 160, WOB 40	
10:00	11:00	1.00	8,233	DRILR	ROTATE DRILL FROM 8,212' TO 8,233', WOB 35, RPM 20, GPM 500, PSI 2550, DIFF 190, TORQ 5K	
11:00	12:00	1.00	8,243	DRILS	SLIDE DRILL FROM 8,233' TO 8,243', TF - 22L, GPM 500, PSI 2550, DIFF 130, WOB 40	
12:00	13:00	1.00	8,265	DRILR	ROTATE DRILL FROM 8,243' TO 8,265', WOB 35, RPM 20, GPM 500, PSI 2550, DIFF 190, TORQ 5K	
13:00	14:00	1.00	8,275	DRILS	SLIDE DRILL FROM 8,265' TO 8,275', TF - HS, GPM 500, PSI 2550, DIFF 120, WOB 40	
14:00	15:00	1.00	8,296	DRILR	ROTATE DRILL FROM 8,275' TO 8,296', WOB 35, RPM 20, GPM 500, PSI 2650, DIFF 190, TORQ 5K	
15:00	15:30	0.50	8,306	DRILS	SLIDE DRILL FROM 8,296' TO 8,306', TF - HS, GPM 500, PSI 2550, DIFF 140, WOB 40	
15:30	17:00	1.50	8,328	DRILR	ROTATE DRILL FROM 8,306' TO 8,328', WOB 35, RPM 20, GPM 500, PSI 2550, DIFF 190, TORQ 5K	
17:00	17:30	0.50	8,338	DRILS	SLIDE DRILL FROM 8,328' TO 8,338', TF - HS, GPM 500, PSI 2550, DIFF 140, WOB 40	
17:30	18:30	1.00	8,359	DRILR	ROTATE DRILL FROM 8,338' TO 8,359', WOB 35, RPM 20, GPM 500, PSI 2550, DIFF 190, TORQ 5K	
18:30	19:30	1.00	8,369	DRILS	SLIDE DRILL FROM 8,359' TO 8,369', TF - 11L, GPM 600, PSI 3350, DIFF 190, WOB 30	
19:30	20:30	1.00	8,391	DRILR	ROTATE DRILL FROM 8,369' TO 8,391', WOB 30, RPM 20, GPM 600, PSI 3400, DIFF 200, TORQ 7K	
20:30	21:30	1.00	8,401	DRILS	SLIDE DRILL FROM 8,391' TO 8,401', TF - HS, GPM 600, PSI 3350, DIFF 150, WOB 30	
21:30	22:30	1.00	8,423	DRILR	ROTATE DRILL FROM 8,401' TO 8,423', WOB 30, RPM 20, GPM 600, PSI 3400, DIFF 200, TORQ 7K	
22:30	23:30	1.00	8,434	DRILS	SLIDE DRILL FROM 8,423' TO 8,434', TF - HS, GPM 600, PSI 3350, DIFF 150, WOB 30	
23:30	0:30	1.00	8,456	DRILR	ROTATE DRILL FROM 8,434' TO 8,456', WOB 30, RPM 20, GPM 600, PSI 3400, DIFF 200, TORQ 7K	
0:30	1:00	0.50	8,466	DRILS	SLIDE DRILL FROM 8,456' TO 8,466', TF - HS, GPM 600, PSI 3350, DIFF 150, WOB 30	
1:00	2:00	1.00	8,487	DRILR	ROTATE DRILL FROM 8,466' TO 8,487', WOB 30, RPM 20, GPM 600, PSI 3400, DIFF 200, TORQ 7K	
2:00	3:00	1.00	8,495	DRILS	SLIDE DRILL FROM 8,487' TO 8,495', TF - HS, GPM 600, PSI 3350, DIFF 150, WOB 30	
3:00	3:30	0.50	8,516	DRILR	ROTATE DRILL FROM 8,495' TO 8,516', WOB 30, RPM 20, GPM 600, PSI 3400, DIFF 200, TORQ 7K	
3:30	5:30	2.00	8,516	CIRC	PUMP TWO 20 BBL HI VIS SWEEPS AND CIRCULATE OUT & BUILD SLUG AND PUMP.	
5:30	6:00	0.50	8,516	TRPO	TOOH FOR LATERAL BHA. (PROJ @ BIT 8515', 81.25 INC, 359.10 AZ, 8195.46 TVD, 689.30 N-S, 108.63 E-W, 691.81 VERT SEC, 9.31 DLS, 20' A, 6'L, NTL 5.01	

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	5,217.71	72,448.12	39,749.71	1,332,017.83	21.97 %
	Totals \$:	6,063,125.00	5,218.00	72,448.00	39,750.00	1,332,018.00	21.97 %

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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		
28-Jun-17 22:00 at Depth 8,415 ft Mud Pits, Type: Oil Base Mud																						
10.00	74.00	1.00	5.00	5	2		12	61	25		8	51000	42361		11	16			27.00			

Mud Consumables

Item Description	Qty.	Cost	Item Description	Qty.	Cost
AES VIS LS (50) - SACK	7	639.66	Barite (Bulk) - EA	85	932.45
BLUE MAX - 5GAL	1	42.83	CaCL2 - 50#SK	20	292.60
Claytone II - 50#SK	11	1,089.77	ENGINEER - EA	1	800.00
ENGINEERING diem - EA	1	50.00	Lime - 50#SK	10	71.40
Trucking (CWT) - EA	433	1,299.00			

Bit/BHA/Workstring Information

No Run		Make	Model	Diam	Depth In	This Run Dist	R.O.P. Hrs	Avg	Max	WOB	RPM	Torque	Mud Wt	Pump Flow	Press	J. Vel	P. Drp	HHP	JIF	
2	1	BAKER	VG-20M	8.75	7526	990	64	15.5	30.0	30.00	20	7.00	10	600	3400	258	596	209	802	
Jets: 18		18	18	Out:		Grade: Cutter: /		Dull: /		Wear:		Brgs:		Gge:		Pull:				
BHA - No. 2 - BIT, MMTR, UBHO, NMDC, NMFLEX, XO = 92.08																				

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	
8,149	8,516	15.5	30.0	30.00	40.00	20	20	5.00	7.00	500.00	600.00	3,500.00

Miscellaneous Drilling Parameters

Hook Loads (lbs):	Off Bottom Rotate:	191.00	Pick Up:	200.00	Slack Off:	184.00	Drag Avg/Max:	/
Slow Circulation Data:								
Pump 1:	30 spm	500 psi	40 spm	560 psi	50 spm	630 psi		
Pump 2:	30 spm	470 psi	40 spm	540 psi	50 spm	620 psi		
Pump 3:	30 spm		40 spm		50 spm			

Survey Information

Survey Type	Meas. Depth	Inc.	Azimuth	TVD	Closure	Vertical Section	Coordinates		D.L.S.
							N-S	E-W	
MWD	8,099.0	45.57	357.0	8,016.9	344.0	321.5	N 318.9	E 129.0	1.75
MWD	8,130.0	50.99	356.8	8,037.5	365.1	344.6	N 342.0	E 127.7	17.50
MWD	8,162.0	53.19	356.8	8,057.2	388.4	369.7	N 367.2	E 126.3	6.87
MWD	8,193.0	55.65	356.8	8,075.2	411.8	394.9	N 392.4	E 124.9	7.94
MWD	8,225.0	57.85	356.5	8,092.7	436.9	421.5	N 419.1	E 123.3	6.91
MWD	8,256.0	59.91	356.3	8,108.8	461.9	448.0	N 445.6	E 121.6	6.68
MWD	8,288.0	62.15	356.2	8,124.3	488.5	475.9	N 473.5	E 119.8	7.00
MWD	8,319.0	64.44	356.0	8,138.2	514.8	503.5	N 501.2	E 117.9	7.41
MWD	8,351.0	66.59	355.9	8,151.5	542.7	532.5	N 530.2	E 115.8	6.72
MWD	8,382.0	70.02	356.3	8,162.9	570.4	561.1	N 558.9	E 113.9	11.11
MWD	8,414.0	72.35	356.8	8,173.2	599.7	591.3	N 589.2	E 112.0	7.44
MWD	8,445.0	74.86	357.3	8,182.0	628.7	621.0	N 618.9	E 110.5	8.26
MWD	8,464.0	76.57	357.8	8,186.7	646.6	639.4	N 637.3	E 109.7	9.40

Rig Information

Equipment Problems:
Location Condition:
Transport:

Solids Control Information

Screen Sizes:	Top	Middle 1	Middle 2	Bottom
Shaker No 1:	200	200	200	200
Shaker No 2:	200	200	200	200
Shaker No 3:	200	200	200	200
Shaker No 4:	200	200	200	200

Bulk Inventory

Item Type	Units	Beginning	Used	Received	On Hand	Net
Fuel	GALS	7,721	2,129		5,592	
Office trailer generator	GALS	237	30		207	
Mud	GALS	7,984	896		7,088	

Safety Information

Meetings/Drills	Time	Description
Safety	30	FIRST DAY BACK CHECKING EQUIPMENT
First Aid Treatments:	Medical Treatments:	Lost Time Incidents:
Days Since LTI:	13	
<input type="checkbox"/> BOP Test	<input checked="" type="checkbox"/> Crownamatic Check	

Weather Information

Sky Condition:	CLEAR	Visibility:	10
Air Temperature:	74.00 degF	Bar. Pressure:	29
Wind Speed/Dir:	13 / S	Wind Gusts:	

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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		