

**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: 17

Report For 06:00 AM 02-Jul-17

Operator:	SEM	Rig:	H&P 467	Spud Date:		Daily Cost / Mud (\$):	46,830 / 12,298
Measured Depth (ft):	14064	Drilling Days (act.):	17	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 1,506,160
Proposed TD (ft):		Days On Location:	17	Last BOP Test:	26-Jun-17		
Hole Made (ft) / Hrs:	1,508 / 20.0	Last Casing:	9.63 at 7,526			Totals:	6,063,125 1,506,160
Average ROP (ft/hr):	75.4	Next Casing:		Working Interest:		Well Cost (\$):	1,506,160
Pers/Hrs:	Operator: 2 / 24	Contractor:	11 / 132	Service:	7 / 84	Other:	0 / 0
						Total:	20 / 240

SafetySummary: No incidents or events reported. 16 days since LTI. Conducted Crown Check, Safety Meeting.

Current Operations: DRLG LATERAL AT 14064'

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	8:00	2.00	12,754	DRILR	ROTATE DRILL FROM 12556 TO 12754, WOB 26, RPM 85, TORQ 14, GPM 600, PSI 4050, DIFF 800	
8:00	8:30	0.50	12,784	DRILS	SLIDE DRILL FROM 12754 TO 12784 TF 130-L, GPM 600, PSI 3800, DIFF 300, WOB 80..	
8:30	9:00	0.50	12,837	DRILR	ROTATE DRILL FROM 12784 TO 12837, WOB 26, RPM 85, TORQ 14, GPM 600, PSI 4150, DIFF 800	
9:00	13:00	4.00	12,837	CIRC	CIRC CLEANUP CYCLE AND RAISE MUD WT TO 10.4+ TO CONTROL CAVING SHALE	
13:00	14:30	1.50	13,037	DRILR	ROTATE DRILL FROM 12837 TO 13037, WOB 26, RPM 85, TORQ 14, GPM 600, PSI 4150, DIFF 800	
14:30	15:30	1.00	13,087	DRILS	SLIDE DRILL FROM 13037 TO 13087 TF 130-L, GPM 600, PSI 3850, DIFF 300, WOB 60..	
15:30	16:30	1.00	13,220	DRILR	ROTATE DRILL FROM 13087 TO 13220, WOB 28, RPM 60, TORQ 14, GPM 600, PSI 4300, DIFF 800	
16:30	17:30	1.00	13,270	DRILS	SLIDE DRILL FROM 13220 TO 13270 TF 130-L, GPM 600, PSI 3850, DIFF 300, WOB 60.	
17:30	18:00	0.50	13,310	DRILR	ROTATE AND SLIDE F/13270' TO 13310' GPM=600, DIFF = 750 ROT. 400 SLIDE, TF=130-L, WOB= 28-50 , ROTATE, 25' ,,,SLIDE 15'	
18:00	18:30	0.50	13,358	DRILR	ROTATE DRILL FROM 13310' TO 13358, WOB 28, RPM 90, TORQ 14, GPM 600, PSI 4400, DIFF 650	
18:30	19:30	1.00	13,388	DRILS	SLIDE DRILL FROM 13358 TO 13388 TF 90-L, GPM 600, PSI 4000, DIFF 300, WOB 40.	
19:30	20:00	0.50	13,430	DRILR	ROTATE DRILL FROM 13388' TO 13430', WOB 32, RPM 90, TORQ 14, GPM 600, PSI 4400, DIFF 750	
20:00	21:00	1.00	13,460	DRILS	SLIDE DRILL FROM 13430 TO 13460 TF 90-L, GPM 550, PSI 3650, DIFF 300, WOB 35.	
21:00	21:30	0.50	13,499	DRILR	ROTATE DRILL FROM 13460' TO 13499', WOB 32, RPM 90, TORQ 14, GPM 600, PSI 4400, DIFF 750	
21:30	22:00	0.50	13,529	DRILS	SLIDE DRILL FROM 13499 TO 13529 TF 90-L, GPM 550, PSI 3650, DIFF 300, WOB 35.	
22:00	23:00	1.00	13,593	DRILR	ROTATE DRILL FROM 13529' TO 13593', WOB 32, RPM 90, TORQ 16, GPM 600, PSI 4400, DIFF 750	
23:00	23:30	0.50	13,613	DRILS	SLIDE DRILL FROM 13593 TO 13613' TF 30-L, GPM 550, PSI 3600, DIFF 300, WOB 35.	
23:30	0:30	1.00	13,734	DRILR	ROTATE DRILL FROM 13613' TO 13734', WOB 30, RPM 90, TORQ 17, GPM 600, PSI 4560, DIFF 750	
0:30	1:00	0.50	13,759	DRILR	SLIDE DRILL FROM 13734 TO 13759 TF 30-L, GPM 550, PSI 3600, DIFF 300, WOB 35.	
1:00	1:30	0.50	13,813	DRILR	ROTATE DRILL FROM 13759 TO 13813', WOB 30, RPM 90, TORQ 17, GPM 600, PSI 4520, DIFF 760	
1:30	2:30	1.00	13,833	DRILS	SLIDE DRILL FROM 13813 TO 13833 TF 30-R, GPM 500, PSI 3150, DIFF 280, WOB 38.	
2:30	4:00	1.50	13,970	DRILR	ROTATE DRILL FROM 13833 TO 13970', WOB 30, RPM 75, TORQ 13, GPM 600, PSI 4520, DIFF 760	



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Operations Summary

From	To	Elapsed	End MD(ft)	Code	Operations Description	Non-Prod
4:00	5:00	1.00	14,000	DRILS	SLIDE DRILL FROM 13970 TO 14000 TF 45 -R, GPM 500, PSI 3150, DIFF 280, WOB 38.	
5:00	6:00	1.00	14,064	DRILR	ROTATE DRILL FROM 14000 TO 14064', WOB 28, RPM 90, TORQ 15, GPM 500, PSI 4300, DIFF 500 LAST SURVEY @ 13914, INC= 90.86, AZ= 354.58, TVD= 8204.84, 7' LOW, 25' LEFT	

Management Summary

LAST SURVEY= 13914', INC=90.86, AZ= 354.58, 7' BELOW, 25' 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	12,298.34	93,256.03	46,830.34	1,506,160.13	24.84 %
Totals \$:		6,063,125.00	12,298.00	93,256.00	46,830.00	1,506,160.00	24.84 %

Mud Information

Dens.	Vis	PV	YP	Filt.	Cake	pH/ES	Solids	Oil	Water	Sand	LGS	Cl	Ca	CaCl	10s	Gels 10m	30m	Temp In	Out	Mud Loss
01-Jul-17 10:00 at Depth 12,838 ft Mud Pits, Type: Oil Base Mud																				
10.30	74.00	4.00	7.00	5	2		8.5	59.5	25		8.5			25000	13	20		22.00	33.00	
01-Jul-17 22:00 at Depth 13,533 ft Mud Pits, Type: Oil Base Mud																				
10.40	74.00	3.00	5.00	5	2		8.6	59	25					25000	12	20		24.00	37.00	

Mud Consumables

Item Description	Qty.	Cost	Item Description	Qty.	Cost
ABS MUL - GALS	138	1,290.30	AES VIS LS (50) - SACK	5	456.90
Barite (Bulk) - EA	412	4,519.64	CaCL2 - 50#SK	25	365.75
Claytone II - 50#SK	10	990.70	ENGINEER - EA	1	750.00
ENGINEERING diem - EA	1	50.00	Lime - 50#SK	20	142.80
ShALETEX II - 50#SK	17	1,296.25	Trucking (CWT) - EA	812	2,436.00

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	5,548	53.5	103.7	225.0	35,	90	16,	10	550	4500	79	58	19	234
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) From	To	ROP (ft/hr) Avg	Max	WOB (lbs) Avg	Max	RPM Avg	Max	Torque (ft lbs) Avg	Max	Flow (gals/min) Avg	Max	Pressure (psi)
12,754	14,064	73.0	225.0	30.00	45.00	80	90	14.00	17.00	500.00	600.00	4,600.00
Annular Velocity: Drill Collars:		160.1	Drill Pipe:	160.1								

Miscellaneous Drilling Parameters

Hook Loads (lbs):	Off Bottom Rotate: 179,000.00	Pick Up: 225,000.00	Slack Off: 145,000.00	Drag Avg/Max: 34000 / 45000
Slow Circulation Data:				
Pump 1:	60 spm	700 psi	40 spm	520 psi
Pump 2:	60 spm	690 psi	40 spm	520 psi
Hours on BHA:	Since Inspection: 53.5	Total:	Jars:	
Hours on Casing/Liner:	Rotating: 53.5 /	Tripping:	/	<input type="checkbox"/> Wear Bushing Installed



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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	12,500.0	89.63	3.5	8,196.5	4,671.4	4,670.6	N 4667.9	E 180.9	3.97
MWD	12,594.0	89.71	3.3	8,197.0	4,765.4	4,764.5	N 4761.7	E 186.4	0.20
MWD	12,688.0	91.82	4.3	8,195.8	4,859.3	4,858.4	N 4855.5	E 192.7	2.51
MWD	12,783.0	89.05	2.2	8,195.0	4,954.3	4,953.3	N 4950.4	E 198.1	3.67
MWD	12,877.0	89.32	2.7	8,196.4	5,048.3	5,047.3	N 5044.3	E 202.1	0.55
MWD	12,971.0	92.13	4.7	8,195.2	5,142.3	5,141.2	N 5138.0	E 208.1	3.68
MWD	13,066.0	89.76	2.4	8,193.6	5,237.2	5,236.1	N 5232.8	E 214.0	3.46
MWD	13,160.0	91.34	4.3	8,192.7	5,331.2	5,330.0	N 5326.7	E 219.5	2.65
MWD	13,254.0	88.66	2.4	8,192.7	5,425.2	5,423.9	N 5420.5	E 225.0	3.51
MWD	13,349.0	86.95	1.6	8,196.4	5,520.1	5,518.8	N 5515.4	E 228.3	1.98
MWD	13,443.0	86.02	359.8	8,202.1	5,613.9	5,612.7	N 5609.2	E 229.5	2.20
MWD	13,537.0	87.74	357.3	8,207.2	5,707.5	5,706.4	N 5703.0	E 227.0	3.19
MWD	13,631.0	89.98	355.9	8,209.1	5,801.0	5,800.1	N 5796.8	E 221.5	2.81
MWD	13,726.0	89.54	355.2	8,209.5	5,895.4	5,894.6	N 5891.5	E 214.1	0.88
MWD	13,820.0	91.47	355.5	8,208.7	5,988.7	5,988.1	N 5985.2	E 206.4	2.07
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

Mud Log Information

Depth (ft)		TVD (ft)		Gas (Units)		Gas Connect.	Drilling Exp.	Pore Press	Mud Dens.	Shale Dens.	ROP	
From	To	From	To	Avg	Max						Shale	Sand
12,500	13,914	8,195	8,205	235.00	623.00	12544	501.00	0.00		4.40		

Formation Name: WOLFCAMP-B

Lithology:

Rig Information

Equipment Problems:

Location Condition:

Transport:

Solids Control Information

Screen Sizes:	Top	Middle 1	Middle 2	Bottom	Equipment Usage (Hrs):		
Shaker No 1:	200	200	200	200	Desander: 0	Desilter: 0	Degasser: 0
Shaker No 2:	200	200	200	200	Centrifuge 1: 21 (Solids Removal)		
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	5,976	2,768	0	3,208	-2,768
Office trailer generator	GALS	372	40	0	332	-40
Mud	GALS	6,254	3,500	0	2,754	-3,500

Safety Information

Meetings/Drills	Time	Description
Safety	30	TRANSFERRING FLUIDS
First Aid Treatments:		Medical Treatments:
Lost Time Incidents:		Days Since LTI: 16
<input type="checkbox"/> BOP Test	<input checked="" type="checkbox"/> Crownamatic Check	

Weather Information

Sky Condition:	CLEAR	Visibility:	10
Air Temperature:	95.00 degF	Bar. Pressure:	
Wind Speed/Dir:	15 / SSW	Wind Gusts:	30

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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