



Daily Drilling Report

Well ID: 42-383-39869

Field: Impossible

SEM Operating Company, LLC

Well Name: University 9 2902WB

Sect: 29 County: Reagan State: TX

Report No: 25

Report For 06:00 AM 29-Jul-17

Operator:	SEM OPERATING	Rig:	H&P 467	Spud Date:		Daily Cost / Mud (\$):	49,813 / 13,931
Measured Depth (ft):	15875	Drilling Days (act.):	25	Well Bore:	Original Well Bore	AFE No.	AFE (\$) Actual (\$)
Vertical Depth (ft):	8177	Drilling Days (plan):		RKB Elevation (ft):	0.00	041717	6,063,125 1,858,513
Proposed TD (ft):		Days On Location:	25	Last BOP Test:	20-Jul-17		
Hole Made (ft) / Hrs:	1,474 / 24.0	Last Casing:	9.63 at 7,522			Totals:	6,063,125 1,858,513
Average ROP (ft/hr):	61.42	Next Casing:		Working Interest:		Well Cost (\$):	1,858,513
Pers/Hrs:	Operator: 2 / 24	Contractor:	11 / 132	Service:	9 / 108	Other:	0 / 0
						Total:	22 / 264

SafetySummary: No incidents or events reported. 22 days since LTI. Conducted BOP Drill, Crown Check, Safety Meeting.

Current Operations: DRILLING LATERAL @ 15,875'

Planned Operations: DRILL SLIDE DRILL WHEN NEEDED, MWD SURVEY, SERVICE RIG.

Toolpusher: LUKE BOYD, CURTIS WELCH

Wellsite Supervisors: GUY EMBRY, RICKY POINDEXTER

Tel No.:

Operations Summary

From	To	Elapsed	End MD(ft)	Code	Operations Description	Non-Prod
6:00	8:00	2.00	14,631	DRILR	ROTATE DRILL FROM 14401'. TO 14.631' GPM 565, PSI 4,300, DIFF 600, WOB 28, RPM 60, TQ 16	
8:00	8:30	0.50	14,641	DRILS	SLIDE DRILL FROM 14631 TO 14641, TF 90L, GPM 565, PSI 3850, DIFF 250, WOB 42	
8:30	9:00	0.50	14,661	DRILR	ROTATE DRILL FROM 14641'. TO 14.661' GPM 565, PSI 4,300, DIFF 600, WOB 28, RPM 65, TQ 16	
9:00	10:30	1.50	14,683	DRILS	SLIDE DRILL FROM 14661 TO 14683, TF 90L, GPM 565, PSI 3850, DIFF 250, WOB 42	
10:30	11:00	0.50	14,730	DRILR	ROTATE DRILL FROM 14683'. TO 14.730' GPM 565, PSI 4,300, DIFF 600, WOB 28, RPM 65, TQ 16	
11:00	12:30	1.50	14,748	DRILS	SLIDE DRILL FROM 14730 TO 14748, TF 60L, GPM 565, PSI 3700, DIFF 250, WOB 60	
12:30	13:00	0.50	14,763	DRILR	ROTATE DRILL FROM 14748'. TO 14.763' GPM 565, PSI 4,350, DIFF 650, WOB 28, RPM 65, TQ 17	
13:00	13:30	0.50	14,779	DRILS	SLIDE DRILL FROM 14763 TO 14779, TF 60L, GPM 565, PSI 3700, DIFF 250, WOB 60	
13:30	14:30	1.00	14,825	DRILR	ROTATE DRILL FROM 14779'. TO 14.825' GPM 565, PSI 4,200, DIFF 550, WOB 28, RPM 65, TQ 17	
14:30	15:00	0.50	14,855	DRILS	SLIDE DRILL FROM 14825 TO 14855, TF 40L, GPM 565, PSI 3700, DIFF 250, WOB 60	
15:00	16:00	1.00	14,919	DRILR	ROTATE DRILL FROM 14855'. TO 14.919' GPM 565, PSI 4,340, DIFF 600, WOB 28, RPM 65, TQ 17	
16:00	16:30	0.50	14,939	DRILS	SLIDE DRILL FROM 14919 TO 14939, TF 70L, GPM 565, PSI 3700, DIFF 250, WOB 60	
16:30	17:30	1.00	15,016	DRILR	ROTATE DRILL FROM 14939'. TO 15016' GPM 565, PSI 4,340, DIFF 600, WOB 28, RPM 65, TQ 17	
17:30	18:00	0.50	15,036	DRILS	SLIDE DRILL FROM 15,016'. TO 15,036, TF 90L, GPM 565, PSI 3700, DIFF 150, WOB 60	
18:00	19:30	1.50	15,293	DRILR	ROTATE DRILL FROM 15,036'. TO 15,293' GPM 565, PSI 4,340, DIFF 600, WOB 28, RPM 65, TQ 17	
19:30	20:30	1.00	15,293	DRILS	SLIDE DRILL FROM 15,293'. TO 15,323, TF 90L, GPM 565, PSI 3700, DIFF 300, WOB 30	
20:30	21:00	0.50	15,333	DRILR	ROTATE DRILL FROM 15,323'. TO 15,333' GPM 565, PSI 4,400, DIFF 550, WOB 28, RPM 65, TQ 16	
21:00	21:30	0.50	15,353	DRILS	SLIDE DRILL FROM 15,333'. TO 15,353, TF 90L, GPM 565, PSI 3700, DIFF 300, WOB 30	
21:30	22:00	0.50	15,410	DRILR	ROTATE DRILL FROM 15,353'. TO 15,410' GPM 565, PSI 4,400, DIFF 550, WOB 28, RPM 65, TQ 16	
22:00	23:00	1.00	15,446	DRILS	SLIDE DRILL FROM 15,410'. TO 15,446, TF 90L, GPM 565, PSI 3700, DIFF 300, WOB 30	
23:00	0:00	1.00	15,503	DRILR	ROTATE DRILL FROM 15,446'. TO 15,503' GPM 565, PSI 4,400, DIFF 550, WOB 28, RPM 65, TQ 16	
0:00	1:00	1.00	15,546	DRILS	SLIDE DRILL FROM 15,503'. TO 15,546, TF 90L, GPM 565, PSI 3700, DIFF 300, WOB 30	

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Operations Summary

From	To	Elapsed	End MD(ft)	Code	Operations Description	Non-Prod
1:00	2:00	1.00	15,598	DRILR	ROTATE DRILL FROM 15,546'. TO 15,598' GPM 565, PSI 4,400, DIFF 550, WOB 28, RPM 65, TQ 16	
2:00	3:00	1.00	15,661	DRILS	SLIDE DRILL FROM 15,598'. TO 15,661, TF 90R , GPM 565, PSI 3700, DIFF 300, WOB 30	
3:00	4:30	1.50	15,766	DRILR	ROTATE DRILL FROM 15,661'. TO 15,766' GPM 565, PSI 4,400, DIFF 550, WOB 28, RPM 65, TQ 16	
4:30	5:00	0.50	15,796	DRILS	SLIDE DRILL FROM 15,766'. TO 15,796, TF 90R , GPM 565, PSI 3700, DIFF 300, WOB 30	
5:00	6:00	1.00	15,875	DRILR	ROTATE DRILL FROM 15,796'. TO 15,875' GPM 565, PSI 4,400, DIFF 550, WOB 28, RPM 65, TQ 16	

Comments

LAST SURVEY @ 15,698', ' 90.46, INC, 180.80 AZ, 8177.99 TVD, 7767.13 VERT SEC, 8.40 DLS, 28 L, 1.5' ABOVE

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				
FULL	9.63	0	0	7,522	7,460	INT1	12.25	40.00	J-55	

Cost/AFE Information

AFE No	AFE Description	AFE Amount	Daily Mud	Well Mud	Daily Total	Well Total	% Spent
041717	D & C a 7500' Lateral horizontal	6,063,125.00	13,931.11	216,247.39	49,813.11	1,858,512.85	30.65 %
Totals \$:		6,063,125.00	13,931.00	216,247.00	49,813.00	1,858,513.00	30.65 %

Mud Information

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-Jul-17 22:00 at Depth 15,420 ft Mud Pits, Type: Oil Base Mud																				
10.40	33.00	5.00	8.00	3	2		13.8	57.4	26.9		8	50000		225686	13	20	25		38.00	203.00

Mud Consumables

Item Description	Qty.	Cost	Item Description	Qty.	Cost
AES WA II - EA	275	2,717.00	AGRI PLUG (40) - 40#SK	4	32.24
Barite (Bulk) - EA	428	4,695.16	CaCL2 - 50#SK	50	731.50
Claytone II - 50#SK	10	990.70	Cottonseed hulls - 40#SK	19	228.00
ENGINEER - EA	1	800.00	ENGINEERING diem - EA	1	50.00
FIR PLUS - 50#SK	5	538.10	Lime - 50#SK	84	599.76
Petrogel 400 - 50#SK	5	421.65	Restocking Fee - EA	186	93.00
Trucking - EA	1	750.00	Trucking (CWT) - EA	428	1,284.00

Bit/BHA/Workstring Information

Run Log																						
			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	HPH	JIF			
5	1	ULTER	616M	8.75	8474	7,418	91	81.5	165.0	30.00	65	16.00	10	565	4300	122	138	45	370			
Jets: 18 18 18 18 18 18					Out:		Grade: Cutter:		/		Dull:		/		Wear:		Brgs:		Gge:		Pull:	
BHA - No. 7 - BIT, MMTR, UBHO, 2 NMDC, XO = 99.05																						

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	
14,401	15,875	81.0	165.0	30.00	30.00	60	65	16.00	17.00	565.00	565.00	4,500.00
Annular Velocity: Drill Collars:				446.7	Drill Pipe:				268.6			

Miscellaneous Drilling Parameters

Hook Loads (lbs):		Off Bottom Rotate:	179.00	Pick Up:	260.00	Slack Off:	115.00	Drag Avg/Max:	50 / 65
Slow Circulation Data:									
Pump 1:	30 spm	550 psi	40 spm	640 psi	50 spm	730 psi			
Pump 2:	30 spm	400 psi	40 spm	460 psi	50 spm	540 psi			
Pump 3:	30 spm	560 psi	40 spm	640 psi	50 spm	740 psi			

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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	14,185.0	91.34	181.2	8,194.7	6,262.9	6,262.6	S 6262.6	W 65.2	2.05
MWD	14,280.0	90.55	184.9	8,193.1	6,357.8	6,357.5	S 6357.4	W 70.3	3.97
MWD	14,374.0	90.24	182.1	8,192.5	6,451.7	6,451.4	S 6451.2	W 76.1	3.01
MWD	14,469.0	90.51	184.0	8,191.9	6,546.6	6,546.4	S 6546.1	W 81.1	1.96
MWD	14,563.0	90.59	186.5	8,191.0	6,640.3	6,640.1	S 6639.7	W 89.7	2.71
MWD	14,657.0	89.85	187.7	8,190.6	6,733.7	6,733.6	S 6733.0	W 101.3	1.45
MWD	14,752.0	88.75	181.6	8,191.8	6,828.5	6,828.4	S 6827.6	W 108.9	6.48
MWD	14,846.0	89.58	181.3	8,193.1	6,922.5	6,922.4	S 6921.6	W 111.3	0.93
MWD	14,941.0	91.38	180.0	8,192.3	7,017.4	7,017.4	S 7016.5	W 112.4	2.34
MWD	15,036.0	90.64	175.3	8,190.7	7,112.3	7,112.2	S 7111.4	W 108.5	5.06
MWD	15,130.0	90.99	173.8	8,189.3	7,205.7	7,205.5	S 7205.0	W 99.5	1.63
MWD	15,225.0	91.16	168.4	8,187.6	7,299.3	7,299.0	S 7298.8	W 84.8	5.65
MWD	15,320.0	90.73	173.4	8,186.0	7,392.9	7,392.4	S 7392.5	W 69.8	5.29
MWD	15,414.0	90.95	172.5	8,184.6	7,486.0	7,485.5	S 7485.8	W 58.2	1.05
MWD	15,509.0	91.47	176.1	8,182.6	7,580.5	7,579.7	S 7580.3	W 48.7	3.83
MWD	15,603.0	91.52	172.9	8,180.1	7,673.9	7,673.1	S 7673.8	W 39.6	3.36
MWD	15,698.0	90.46	180.8	8,178.5	7,768.7	7,767.7	S 7768.6	W 34.4	8.40

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.	Trip					Shale	Sand
14,148	15,765	8,198	8,177	353.00	677.00	14362					10.40			
Formation Name: WOLFCAMP														
Lithology: 100% SHALE @ 15656'														

Solids Control Information

Screen Sizes:	Top	Middle 1	Middle 2	Bottom	Equipment Usage (Hrs):
Shaker No 1:	200	200	200	200	Centrifuge 1: 12 (Solids Removal)
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	7,916	2,893		5,023	
Office trailer generator	GALS	650	250		400	
Mud	GALS	5,851	4,085		1,766	

Safety Information

Meetings/Drills	Time	Description
Safety	30	TRIP HAZARDS FORK LIFT OPERATIONS
BOP	15	
First Aid Treatments:		Medical Treatments:
Lost Time Incidents:		Days Since LTI: 22
<input type="checkbox"/> BOP Test	<input checked="" type="checkbox"/> Crownamatic Check	

Weather Information

Sky Condition: CLEAR	Visibility: 10
Air Temperature: 77.00 degF	Bar. Pressure: 29
Wind Speed/Dir: 8 / S	Wind Gusts:

Rental Tools Information

Type	Description	Serial No.	Vendor	Acct Code	Today's Cost \$	Start	End
Trailer	HOUSING		TREND	9240-01	900.00	08-Jul-17	
Frac Tanks	FRAC TANKS		THORPE	9240-01	175.00	08-Jul-17	



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Type	Description	Serial No.	Vendor	Acct Code	Today's Cost \$	Start	End
PVT	RIG SENSE		TOTCO	9240-01	388.00	08-Jul-17	
Light Tower	LIGHT TOWER		CACTUS	9240-01	200.00	08-Jul-17	
OBM Control	CENTRIFUGES		DES	9210-01	3,050.00	08-Jul-17	
Frac Tanks	OBM STORAGE		PURITY	9210-01	489.00	08-Jul-17	
Trans. Pump	TRANS PUMP		TIGER	9240-01	185.00	08-Jul-17	
H2S	AMPRO H2S		AMPRO	9240-01	150.00	08-Jul-17	
Rig Vac	MUD VAC		KSW	9240-01	135.00	08-Jul-17	
Trans. Pump	TRANSFER PUMP		KSW	9240-01	185.00	11-Jul-17	
SPOOLS	BOP SPACER		MONAHANS	9240-01	210.00	08-Jul-17	
Rotating Hd.	ROT HEAD		AIR DRIL	9240-01	120.00	08-Jul-17	
Mud Bucket	MUD BUCKET		STABIL	9240-01	110.00	08-Jul-17	
OBM Control	KATCH KAN		KATCH	9240-01	175.00	16-Jul-17	

Total Daily Rental Cost \$: 6,472.00