



# 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: 4

Report For 06:00 AM 19-Jun-17

Operator:	SEM	Rig:	H&P 467	Spud Date:	Daily Cost / Mud (\$): 371,599 / 4,830		
Measured Depth (ft):	3136	Drilling Days (act.):	4	Well Bore:	Original Well Bore	AFE No.	AFE (\$) Actual (\$)
Vertical Depth (ft):	3133	Drilling Days (plan):		RKB Elevation (ft):	0.00	041517	6,063,125 493,953
Proposed TD (ft):		Days On Location:	4	Last BOP Test:			
Hole Made (ft) / Hrs:	2,296 / 23.0	Last Casing:	13.38 at 745	Totals:			6,063,125 493,953
Average ROP (ft/hr):	99.83	Next Casing:		Working Interest:			Well Cost (\$): 493,953
Pers/Hrs:	Operator: 2 / 24	Contractor:	13 / 156	Service:	5 / 60	Other:	0 / 0
							Total: 20 / 240

SafetySummary: No incidents or events reported. 3 days since LTI. Conducted Crown Check, Safety Meeting.

Current Operations: DRILLING 12.25" HOLE @ 3136'

Planned Operations: DRILLING 12.25" HOLE

Toolpusher: LUKE BOYD

Wellsite Supervisors: BRUCE DELAUGHTER, DARYL MCENTYRE

Tel No.:

### Operations Summary

From	To	Elapsed	End MD(ft)	Code	Operations Description	Non-Prod
6:00	15:30	9.50	1,981	DRILR	ROTATE DRILL FROM 840' TO 1,981', RPM 30, WOB 25, TQ 10, GPM 800, DIFF 600, SPP 2,300	
15:30	16:30	1.00	2,021	DRILS	SLIDE DRLG, FROM 1,981' TO 2,021', MTF-47,WOB 25, GPM 730, DIFF 450, PSI-2000.	
16:30	17:30	1.00	2,076	DRILR	ROTATE DRILL FROM 2021' TO 2076', RPM 30, WOB 25, TQ 10, GPM 730, DIFF 600, SPP 2,200	
17:30	18:00	0.50	2,096	DRILS	SLIDE DRLG, FROM 2076' TO 2096', MTF-47,WOB 25, GPM 730, DIFF 450, PSI-2000.	
18:00	18:30	0.50	2,171	DRILR	ROTATE DRILL FROM 2096' TO 2171', RPM 30, WOB 25, TQ 10, GPM 730, DIFF 600, SPP 2,200	
18:30	19:00	0.50	2,190	DRILS	SLIDE DRLG, FROM 2171' TO 2190', MTF-45,WOB 25, GPM 730, DIFF 450, PSI-2000.	
19:00	19:30	0.50	2,190	WOW	WAITING ON WEATHER TORNADO SPOTTED SOUTH OF RIG	
19:30	20:00	0.50	2,255	DRILS	SLIDE DRLG, FROM 2190' TO 2255', MTF-45,WOB 25, GPM 730, DIFF 450, PSI-2000.	
20:00	20:30	0.50	2,255	WOW	WAITING ON WEATHER TORNADO SPOTTED NORTH OF RIG	
20:30	21:00	0.50	2,370	DRILR	ROTATE DRILL FROM 2255' TO 2370', RPM 30, WOB 25, TQ 10, GPM 730, DIFF 600, SPP 2,200	
21:00	22:00	1.00	2,444	DRILS	SLIDE DRLG, FROM 2370' TO 2444', MTF-45,WOB 25, GPM 730, DIFF 450, PSI-2000.	
22:00	0:30	2.50	2,642	DRILR	ROTATE DRILL FROM 2444' TO 2642', RPM 30, WOB 25, TQ 10, GPM 795, DIFF 650, SPP 2,450	
0:30	1:30	1.00	2,727	DRILS	SLIDE DRLG, FROM 2642' TO 2727', MTF-45,WOB 25, GPM 800, DIFF 245, PSI-2200.	
1:30	6:00	4.50	3,136	DRILR	ROTATE DRILL FROM 2727' TO 3136', RPM 30, WOB 25, TQ 12, GPM 795, DIFF 580, SPP 2,450, SURVEY @ 3049' INC=4.53 AZM 52.94	

### 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	

### 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	4,830	14,661	371,599	493,953	8.15 %
<b>Totals \$:</b>		6,063,125	4,830	14,661	371,599	493,953	8.15 %

### 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
18-Jun-17 22:00 at Depth 2,440 ft Mud Pits, Type: Saturated Salt Mud																				
9.80	28.00	1.00	1.00		1	9.1	10.1		89.9		0	171000	1600		1	1		86.00	91.00	

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**Mud Consumables**

Item Description	Qty.	Cost	Item Description	Qty.	Cost
AGRI PLUG (40) - 40#SK	35	282	Cedar Fiber Fine - 40#SK	20	162
Drilling paper - 40#SK	20	255	ENERVIS RM - 5GAL	2	185
ENGINEER - DAY	1	800	ENGINEERING diem - EA	1	50
Gel - 100#SK	223	2,141	Lime - 50#SK	15	107
NUT PLUG - 50#SK	-15	-267	SAPP Sticks - EA	9	32
Soad ash - 100#SK	2	55	Soap Sticks - EA	9	28
Trucking (CWT) - EA	333	999			

**Bit/BHA/Workstring Information**

No	Run	Make	Model	Diam	Depth In	This Run Dist	Run Hrs	R.O.P. Avg	Max	WOB	RPM	Torque	Wt	Mud Flow	Pump Press	J. Vel	P. Drp	HHP	JIF
1	1	NOV	SK716M	12.25	763	2,373	24.5	96.9	100.0	25.00	30	10	10	795	2450	148	192	89	596
<b>Jets:</b> 16 16 16 16 16 22 22					<b>Out:</b>	<b>Grade:</b>	<b>Cutter:</b> /	<b>Dull:</b> /	<b>Wear:</b>	<b>Brgs:</b>	<b>Gge:</b>	<b>Pull:</b>							
<b>BHA - No. 1 -</b> BIT, MMTR, MSUB, NMDC, STAB, NMDC, STAB, SHOCK, XO, 3 DC, XO, 11 DC, JAR, 2 DC, 7 HWDP, XO = 840.04																			

**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	
840	3,136	100.0	225.0	25.00	30.00	30	30	10,000.	12,000.	795.00	795.00	2,450.00
<b>Annular Velocity:</b>			226.4	<b>Drill Collars:</b>		226.4		<b>Drill Pipe:</b>		155.8		

**Miscellaneous Drilling Parameters**

<b>Hook Loads (lbs):</b>	<b>Off Bottom Rotate:</b> 142.00	<b>Pick Up:</b> 148.00	<b>Slack Off:</b> 139.00	<b>Drag Avg/Max:</b> 3 / 6
<b>Slow Circulation Data:</b>				
<b>Pump 1:</b>	30 spm	130 psi	40 spm	150 psi
<b>Pump 2:</b>	30 spm	130 psi	40 spm	150 psi
<b>Pump 3:</b>	30 spm	120 psi	40 spm	150 psi

**Rig Information**

<b>Equipment Problems:</b>	
<b>Location Condition:</b>	
<b>Transport:</b>	

**Solids Control Information**

Screen Sizes:	Top	Middle 1	Middle 2	Bottom
<b>Shaker No 1:</b>	170	170	170	170
<b>Shaker No 2:</b>	170	170	170	170
<b>Shaker No 3:</b>	170	170	170	170

**Bulk Inventory**

Item Type	Units	Beginning	Used	Received	On Hand	Net
Fuel	GALS	13,201	2,633		10,568	
Office trailer generator	GALS	435	35		400	
Mud	GALS	0	0		0	

**Safety Information**

Meetings/Drills	Time	Description
Safety	30	DRILLING, MIXING GEL MUD
<b>First Aid Treatments:</b>	<b>Medical Treatments:</b>	<b>Lost Time Incidents:</b>
<input type="checkbox"/> BOP Test	<input checked="" type="checkbox"/> Crownamatic Check	<b>Days Since LTI:</b> 3

**Rental Tools Information**

Type	Description	Serial No.	Vendor	Acct Code	Today's Cost \$	Start	End
Trailer	HOUSING		TREND	9240-01	900	15-Jun-17	
<b>Notes: 4 TRAILERS</b>							
Frac Tanks	FRAC TANKS		THORPE	9245-01	175	15-Jun-17	
<b>Notes: 7 FRAC TANKS</b>							
PVT	RIG SENSE		TOTCO	9240-01	363	15-Jun-17	

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Type	Description	Serial No.	Vendor	Acct Code	Today's Cost \$	Start	End
Light Tower	LIGHT TOWERS		CACTUS	9240-01	175	15-Jun-17	
<b>Notes:</b> 7 LIGHT PLANTS							
drive over	DRIVE OVER		MCGUIRE	9240-01	90	15-Jun-17	
OBM Control	CENTRIFUGES		DES	9210-01	1,650	15-Jun-17	
Frac Tanks	OBM STORAGE		PURITY	9210-01	489	15-Jun-17	
<b>Notes:</b> 5 TANKS AND MANIFOLD							
SPOOLS	BOP SPACER SPOOL		MONAHANS	9240-01	210	15-Jun-17	
Trans. Pump	TRANS PUMP		TIGER	9240-01	300	15-Jun-17	
<b>Notes:</b> 3 TIGER 4X4 PUMPS							
H2S	AMPRO H2S		AMPRO	9240-01	100	15-Jun-17	
Rotating Hd.	ROT HEAD		AIR DRIL	9240-01	120	15-Jun-17	
Mud Bucket	mud bucket		STABIL	9241-01	110	15-Jun-17	
Rig Vac	MUD VACUME		KSW	9241-01	200	15-Jun-17	
<b>Notes:</b> MUD VAC/SHAKER WASHER							

**Total Daily Rental Cost \$:** 4,882