



# 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: 5

Report For 06:00 AM 20-Jun-17

Operator:	SEM	Rig:	H&P 467	Spud Date:		Daily Cost / Mud (\$):	38,814 / 5,347		
Measured Depth (ft):	4458	Drilling Days (act.):	5	Well Bore:	Original Well Bore	AFE No.	AFE (\$)	Actual (\$)	
Vertical Depth (ft):	4453	Drilling Days (plan):		RKB Elevation (ft):	0.00	041517	6,063,125	532,767	
Proposed TD (ft):		Days On Location:	5	Last BOP Test:					
Hole Made (ft) / Hrs:	1,322 / 23.5	Last Casing:	13.38 at 745			Totals:	6,063,125	532,767	
Average ROP (ft/hr):	56.26	Next Casing:		Working Interest:		Well Cost (\$):		532,767	
Pers/Hrs:	Operator: 2 / 24	Contractor:	11 / 132	Service:	5 / 60	Other:	0 / 0	Total:	18 / 216

SafetySummary: No incidents or events reported. 4 days since LTI. Conducted Crown Check, Safety Meeting.

Current Operations: DRILLING 12.25" HOLE @ 4458'

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	11:00	5.00	3,576	DRILR	ROTATE DRILL FROM 3,136' TO 3,576', WOB 30, TQ 10, GPM 800, PSI 2,450, DIFF 500	
11:00	11:30	0.50	3,576	SERV	SERVICE RIG	
11:30	14:00	2.50	3,770	DRILR	ROTATE DRILL FROM 3,576' TO 3,770', WOB 30, TQ 11, GPM 800, PSI 2,450, DIFF 500	
14:00	16:00	2.00	3,842	DRILS	SLIDE DRILL FROM 3,770' TO 3,842', MTF 230, WOB 30, GPM 800, DIFF 300,	
16:00	17:00	1.00	3,891	DRILR	ROTATE DRILL FROM 3,842' TO 3,891', WOB 30, TQ 10, GPM 800, PSI 2,450, DIFF 500	
17:00	18:30	1.50	3,954	DRILS	SLIDE DRILL FROM 3,891' TO 3,954', MTF 225, WOB 30, GPM 800, DIFF 300, PSI-2400	
18:30	19:30	1.00	3,986	DRILR	ROTATE DRILL FROM 3,954' TO 3,986', WOB 30, TQ 10, GPM 800, PSI 2,450, DIFF 500	
19:30	21:30	2.00	4,049	DRILS	SLIDE DRILL FROM 3,986' TO 4,049', MTF 225, WOB 30, GPM 800, DIFF 300, PSI-2400	
21:30	22:30	1.00	4,144	DRILR	ROTATE DRILL FROM 4,049' TO 4,144', WOB 30, TQ 13, GPM 800, PSI 2,450, DIFF 500	
22:30	6:00	7.50	4,458	DRILR	ROTATE DRILL FROM 4,144' TO 4,458', WOB 30, TQ 11, GPM 450, PSI 1450, DIFF 525,(DISPLACE BRIAN WITH WATER BASE MUD) SURVEY @ 4371' INC=1.01 AZM=53.55	

### 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	5,347	20,008	38,814	532,767	8.79 %
<b>Totals \$:</b>		6,063,125	5,347	20,008	38,814	532,767	8.79 %

### 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
19-Jun-17 23:00 at Depth 4,158 ft Mud Pits, Type: Fresh Water Based																				
8.60	14.00	6.00	6.00		1	8.8	1.8	98.2				37000	800		12	14		73.00	84.00	

### Mud Consumables

Item Description	Qty.	Cost	Item Description	Qty.	Cost
AGRI PLUG (40) - 40#SK	17	137	BLUE MAX - 5GAL	7	300
Cedar Fiber Fine - 40#SK	4	32	Drilling paper - 40#SK	3	38
ENERVIS RM - 5GAL	1	92	ENGINEER - DAY	1	800
ENGINEERING diem - EA	1	50	Forklift - EA	1	150
Gel - 100#SK	134	1,286	NUT PLUG - 50#SK	13	231
SAPP - 50#SK	2	185	SAPP Sticks - EA	9	32
Soap Sticks - EA	9	28	Trucking (CWT) - EA	794	1,985



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### Bit/BHA/Workstring Information

No	Run	Make	Model	Diam	Depth		This Run			R.O.P.		Mud		Pump		J. Vel	P. Drp	HHP	JIF
					In	Dist	Hrs	Avg	Max	WOB	RPM	Torque	Wt	Flow	Press				
1	1	NOV	SK716M	12.25	763	3,695	48	77.0	110.0	30.00	30	10	9	600	2250	112	96	34	298

Jets: 16 16 16 16 16 22 22    Out:    Grade: Cutter: /    Dull: /    Wear:    Brgs:    Gge:    Pull:

BHA - No. 1 - 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
From	To	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	(psi)
3,136	4,458	56.3	110.0	30.00	30.00	30	30	10.00	12.00	450.00	800.00	2,250.00

Annular Velocity: Drill Collars: 128.2    Drill Pipe: 88.2

### Miscellaneous Drilling Parameters

Hook Loads (lbs):	Off Bottom Rotate:	175.00	Pick Up:	185.00	Slack Off:	167.00	Drag Avg/Max:	10 / 12
Slow Circulation Data:								
Pump 1:	30 spm	160 psi	40 spm	180 psi	50 spm	210 psi		
Pump 3:	30 spm	160 psi	40 spm	180 psi	50 spm	210 psi		

### Rig Information

Equipment Problems:

Location Condition:

Transport:

### Solids Control Information

Screen Sizes:	Top	Middle 1	Middle 2	Bottom
Shaker No 1:	170	170	170	170
Shaker No 2:	170	170	170	170
Shaker No 3:	170	170	170	170

### Bulk Inventory

Item Type	Units	Beginning	Used	Received	On Hand	Net
Fuel	GALS	10,568	2,265		8,303	
Office trailer generator	GALS	400	35		365	
Mud	GALS	0	0		0	

### Safety Information

Meetings/Drills	Time	Description
Safety	30	DRILLING OPS, DISPLACING W/WATER BASE MUD

First Aid Treatments:    Medical Treatments:    Lost Time Incidents:    Days Since LTI: 4

BOP Test     Crownamatic Check

### 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	
Light Tower	LIGHT TOWERS		CACTUS	9240-01	175	15-Jun-17	
<b>Notes: 7 LIGHT PLANTS</b>							
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: 5 TANKS AND MANIFOLD</b>							
SPOOLS	BOP SPACER SPOOL		MONAHANS	9240-01	210	15-Jun-17	
Trans. Pump	TRANS PUMP		TIGER	9240-01	300	15-Jun-17	
<b>Notes: 3 TIGER 4X4 PUMPS</b>							
H2S	AMPRO H2S		AMPRO	9240-01	100	15-Jun-17	



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Type	Description	Serial No.	Vendor	Acct Code	Today's Cost \$	Start	End
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	

Notes: MUD VAC/SHAKER WASHER

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