



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 % |
| Totals \$: | | 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

| | | | | | | | | | | Depth | | This Run | | R.O.P. | | | | Mud | | Pump | | | | | |
|---|-----|------|--------|--|-------|-------|-------|--------|------|---------|-------|----------|-----|--------|----|------|-------|--------|--------|-------|-----|------|--|-------|--|
| No | Run | Make | Model | | Diam | Depth | In | Dist | Hrs | Avg | Max | WOB | RPM | Torque | Wt | Flow | Press | J. Vel | P. Drp | HHP | JIF | | | | |
| 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 (psi) | |
|-------------------|-------|-------------|-------|----------------|-------|-------|-----|-----------------|-------|-----------------|--------|----------------|-----|
| From | To | Avg | Max | Avg | Max | Avg | Max | Avg | Max | Avg | Max | Avg | Max |
| 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 | | |
| <input type="checkbox"/> BOP Test | <input checked="" type="checkbox"/> 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 | |
| Notes: 4 TRAILERS | | | | | | | |
| Frac Tanks | FRAC TANKS | | THORPE | 9245-01 | 175 | 15-Jun-17 | |
| Notes: 7 FRAC TANKS | | | | | | | |
| PVT | RIG SENSE | | TOTCO | 9240-01 | 363 | 15-Jun-17 | |
| Light Tower | LIGHT TOWERS | | CACTUS | 9240-01 | 175 | 15-Jun-17 | |
| Notes: 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 | |
| Notes: 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 | |
| Notes: 3 TIGER 4X4 PUMPS | | | | | | | |
| 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