



## Midland Partner Report

Well Name: Fcu 7244

State: Texas

County: Andrews

Location: ~14.6 miles northwest of Andrews, TX

Rig Contr.: Savanna 610

API#: 4200345584

AFE#: 1306181

| Total Costs to Date |                  |
|---------------------|------------------|
| Daily Cost Total    | Cum Cost To Date |
| 5,750.00            | 5,750.00         |

|           |  |                         |
|-----------|--|-------------------------|
| Spud Date | Ground/Corrected Ground Elevation (ft) | KB-Ground Distance (ft) |
|           | 3,280.00                               | 17.50                   |

### Daily Operations

9/16/2013 20:00 - 9/17/2013 06:00

Operation Summary # 1

Wait on trucks.

### Time Log

| Start Time | End Time | Dur (hrs) | Cum Dur (hrs) | Comment         |
|------------|----------|-----------|---------------|-----------------|
| 20:00      | 06:00    | 10.00     | 10.00         | Wait on Trucks. |



## Midland Partner Report

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### Total Costs to Date

| Daily Cost Total | Cum Cost To Date |
|------------------|------------------|
| 66,648.92        | 72,398.92        |

|                      |  |                         |
|----------------------|--|-------------------------|
| Spud Date            | Ground/Corrected Ground Elevation (ft) | KB-Ground Distance (ft) |
| 9/18/2013 2:00:00 AM | 3,280.00                               | 17.50                   |

### Daily Operations

9/17/2013 06:00 - 9/18/2013 06:00

Operation Summary # 1

MIRU Savanna Rig #610. Trucks arrived on location @ 7:00 a.m. & left location @ 4:00 p.m. Spudded the 11" hole @ 02:00 a.m., 09/18/2013. Mix spud mud, drill, WLS & drill.

### Time Log

| Start Time | End Time | Dur (hrs) | Cum Dur (hrs) | Comment  |
|------------|----------|-----------|---------------|--|
| 06:00      | 02:00    | 20.00     | 20.00         | MIRU Savanna rig #610.   |
| 02:00      | 04:45    | 2.75      | 22.75         | Drill f/ 0-283'. Spudded the 11" hole @ 02:00 a.m., 9/18/2013. |
| 04:45      | 05:00    | 0.25      | 23.00         | WLS @ 244' - 0.3 Deg   |
| 05:00      | 06:00    | 1.00      | 24.00         | Drill f/ 283' - 400'   |



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### Total Costs to Date

| Daily Cost Total | Cum Cost To Date |
|------------------|------------------|
| 20,758.34        | 93,157.26        |

|                      |  |                         |
|----------------------|--|-------------------------|
| Spud Date            | Ground/Corrected Ground Elevation (ft) | KB-Ground Distance (ft) |
| 9/18/2013 2:00:00 AM | 3,280.00                               | 17.50                   |

### Daily Operations

9/18/2013 06:00 - 9/19/2013 06:00

Operation Summary # 1

Drill, WLS, TD 11" hole @ 8:30 p.m., 09/18/2013. Pump sweep, Circ., TOOH, R/U & run 8 5/8" casing.

### Time Log

| Start Time | End Time | Dur (hrs) | Cum Dur (hrs) | Comment                                    |
|------------|----------|-----------|---------------|--|
| 06:00      | 07:45    | 1.75      | 1.75          | Drill f/ 400' - 677'                       |
| 07:45      | 08:00    | 0.25      | 2.00          | WLS @ 636' - 0.1 Deg.                      |
| 08:00      | 12:00    | 4.00      | 6.00          | Drill f/ 677' - 1,085'                     |
| 12:00      | 12:15    | 0.25      | 6.25          | WLS @ 1,042' - 0.4 Deg.                    |
| 12:15      | 16:15    | 4.00      | 10.25         | Drill f/ 1,085' - 1,491'                   |
| 16:15      | 16:30    | 0.25      | 10.50         | Rig Service                                |
| 16:30      | 16:45    | 0.25      | 10.75         | WLS @ 1,450' - 0.1 Deg.                    |
| 16:45      | 20:30    | 3.75      | 14.50         | Drill f/ 1,491' - 1,745'. TD               |
| 20:30      | 21:15    | 0.75      | 15.25         | Circulate to run 8 5/8" casing.            |
| 21:15      | 00:00    | 2.75      | 18.00         | Drop Driftomatic, TOOH, & L/D 3 - 8" DC's. |
| 00:00      | 06:00    | 6.00      | 24.00         | Safety meeting & R/U & run 8 5/8" casing.  |



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Rig Contr.: Savanna 610

API#: 4200345584

AFE#: 1306181

| Total Costs to Date |                  |
|---------------------|------------------|
| Daily Cost Total    | Cum Cost To Date |
| 77,587.76           | 170,745.02       |

|                      |  |                         |
|----------------------|--|-------------------------|
| Spud Date            | Ground/Corrected Ground Elevation (ft) | KB-Ground Distance (ft) |
| 9/18/2013 2:00:00 AM | 3,280.00                               | 17.50                   |

### Daily Operations

9/19/2013 06:00 - 9/20/2013 06:00

Operation Summary # 1

Run 8 5/8" casing, Circ., Cement (circulated 229 sacks to the reserve), WOC, c/o casing, weld on head, NU the BOP, test all valves, rams & casing, Drill out plug, float, cement & 10' of formation, run FIT (no pressure loss), & drill.

### Time Log

| Start Time | End Time | Dur (hrs) | Cum Dur (hrs) | Comment   |
|------------|----------|-----------|---------------|---|
| 06:00      | 07:30    | 1.50      | 1.50          | Run 8 5/8" casing   |
| 07:30      | 08:30    | 1.00      | 2.50          | Circulate for cementing   |
| 08:30      | 10:30    | 2.00      | 4.50          | Cement the 8 5/8" casing  |
| 10:30      | 14:30    | 4.00      | 8.50          | WOC   |
| 14:30      | 16:30    | 2.00      | 10.50         | Cut conductor, casing & weld on wellhead.   |
| 16:30      | 20:00    | 3.50      | 14.00         | NU the BOP.   |
| 20:00      | 21:30    | 1.50      | 15.50         | Test blinds, choke, all valves, & casing to 250 psi low and 1,000 psi high. Flush all lines & manifold. |
| 21:30      | 00:30    | 3.00      | 18.50         | Pick up BHA #2 & TIH. Tag Cement @ 1,686'.  |
| 00:30      | 01:15    | 0.75      | 19.25         | Test Annular, pipe rams & casing to 250 psi low & 1,000 psi high.                                       |
| 01:15      | 02:30    | 1.25      | 20.50         | Drill plug, float & cement.   |
| 02:30      | 03:15    | 0.75      | 21.25         | Drill 1,745' - 1,755'.  |
| 03:15      | 03:45    | 0.50      | 21.75         | Perform FIT.  |
| 03:45      | 06:00    | 2.25      | 24.00         | Drill 1,755' - 1,796'.  |



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County: Andrews  
Location: ~14.6 miles northwest of Andrews, TX  
Rig Contr.: Savanna 610

API#: 4200345584  
AFE#: 1306181

| Total Costs to Date |                  |
|---------------------|------------------|
| Daily Cost Total    | Cum Cost To Date |
| 24,452.91           | 195,197.93       |

|                      |  |                         |
|----------------------|--|-------------------------|
| Spud Date            | Ground/Corrected Ground Elevation (ft) | KB-Ground Distance (ft) |
| 9/18/2013 2:00:00 AM | 3,280.00                               | 17.50                   |

### Daily Operations

9/20/2013 06:00 - 9/21/2013 06:00

Operation Summary # 1

Drill, WLS & Rig Service.

### Time Log

| Start Time | End Time | Dur (hrs) | Cum Dur (hrs) | Comment                  |
|------------|----------|-----------|---------------|--------------------------|
| 06:00      | 08:00    | 2.00      | 2.00          | Drill f/ 1,796' - 1,984' |
| 08:00      | 08:15    | 0.25      | 2.25          | WLS @ 1,940' - 1.3 Deg   |
| 08:15      | 11:45    | 3.50      | 5.75          | Drill f/ 1,984' - 2,234' |
| 11:45      | 12:00    | 0.25      | 6.00          | WLS @ 2,191' - 1.1 Deg   |
| 12:00      | 15:00    | 3.00      | 9.00          | Drill f/ 2,234' - 2,485' |
| 15:00      | 15:15    | 0.25      | 9.25          | WLS @ 2,482' - 1.6 Deg   |
| 15:15      | 16:00    | 0.75      | 10.00         | Drill f/ 2,485' - 2,548' |
| 16:00      | 16:15    | 0.25      | 10.25         | Rig Service              |
| 16:15      | 19:00    | 2.75      | 13.00         | Drill f/ 2,548' - 2,734' |
| 19:00      | 19:15    | 0.25      | 13.25         | WLS @ 2,692' - 1.8 Deg   |
| 19:15      | 00:15    | 5.00      | 18.25         | Drill f/ 2,734' - 2,953' |
| 00:15      | 00:30    | 0.25      | 18.50         | WLS @ 2,943' - 1.3 Deg   |
| 00:30      | 03:30    | 3.00      | 21.50         | Drill f/ 2,953' - 3,110' |
| 03:30      | 03:45    | 0.25      | 21.75         | Rig Service              |
| 03:45      | 06:00    | 2.25      | 24.00         | Drill f/ 3,110' - 3,204' |



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County: Andrews

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Rig Contr.: Savanna 610

API#: 4200345584

AFE#: 1306181

### Total Costs to Date

| Daily Cost Total | Cum Cost To Date |
|------------------|------------------|
| 19,816.62        | 215,014.55       |

|                      |  |                         |
|----------------------|--|-------------------------|
| Spud Date            | Ground/Corrected Ground Elevation (ft) | KB-Ground Distance (ft) |
| 9/18/2013 2:00:00 AM | 3,280.00                               | 17.50                   |

### Daily Operations

9/21/2013 06:00 - 9/22/2013 06:00

Operation Summary # 1

Drill, WLS, & Rig Service.

### Time Log

| Start Time | End Time | Dur (hrs) | Cum Dur (hrs) | Comment                  |
|------------|----------|-----------|---------------|--------------------------|
| 06:00      | 06:30    | 0.50      | 0.50          | Drill f/ 3,204' - 3,235' |
| 06:30      | 07:00    | 0.50      | 1.00          | WLS @ 3,192' - 1.3 Deg   |
| 07:00      | 11:30    | 4.50      | 5.50          | Drill f/ 3,235' - 3,484' |
| 11:30      | 11:45    | 0.25      | 5.75          | WLS @ 3,441' - 1.5 Deg   |
| 11:45      | 16:00    | 4.25      | 10.00         | Drill f/ 3,484' - 3,672' |
| 16:00      | 16:15    | 0.25      | 10.25         | Rig Service              |
| 16:15      | 18:00    | 1.75      | 12.00         | Drill f/ 3,672' - 3,735' |
| 18:00      | 18:15    | 0.25      | 12.25         | WLS @ 3,693' - 1.4 Deg   |
| 18:15      | 19:30    | 1.25      | 13.50         | Drill f/ 3,735' - 3,779' |
| 19:30      | 19:45    | 0.25      | 13.75         | Rig Service              |
| 19:45      | 02:00    | 6.25      | 20.00         | Drill f/ 3,779' - 3,986' |
| 02:00      | 02:15    | 0.25      | 20.25         | WLS @ 3,944' - 1.2 Deg   |
| 02:15      | 06:00    | 3.75      | 24.00         | Drill f/ 3,986' - 4,116' |



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County: Andrews

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Rig Contr.: Savanna 610

API#: 4200345584

AFE#: 1306181

### Total Costs to Date

| Daily Cost Total | Cum Cost To Date |
|------------------|------------------|
| 20,416.45        | 235,431.00       |

|                      |  |                         |
|----------------------|--|-------------------------|
| Spud Date            | Ground/Corrected Ground Elevation (ft) | KB-Ground Distance (ft) |
| 9/18/2013 2:00:00 AM | 3,280.00                               | 17.50                   |

### Daily Operations

9/22/2013 06:00 - 9/23/2013 06:00

Operation Summary # 1

Drill, WLS & Rig Service.

### Time Log

| Start Time | End Time | Dur (hrs) | Cum Dur (hrs) | Comment                  |
|------------|----------|-----------|---------------|--------------------------|
| 06:00      | 10:00    | 4.00      | 4.00          | Drill f/ 4,116' - 4,236' |
| 10:00      | 10:30    | 0.50      | 4.50          | WLS @ 4,193' - 0.8 Deg   |
| 10:30      | 16:00    | 5.50      | 10.00         | Drill f/ 4,236' - 4,487' |
| 16:00      | 16:30    | 0.50      | 10.50         | Rig Service              |
| 16:30      | 18:00    | 1.50      | 12.00         | Drill f/ 4,487' - 4,549' |
| 18:00      | 18:15    | 0.25      | 12.25         | WLS @ 4,508' - 0.5 Deg   |
| 18:15      | 01:15    | 7.00      | 19.25         | Drill f/ 4,549' - 4,957' |
| 01:15      | 01:30    | 0.25      | 19.50         | WLS @ 4,915' - 1.0 Deg   |
| 01:30      | 03:45    | 2.25      | 21.75         | Drill f/ 4,957' - 5,080' |
| 03:45      | 04:00    | 0.25      | 22.00         | Rig Service              |
| 04:00      | 06:00    | 2.00      | 24.00         | Drill f/ 5,080' - 5,206' |



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County: Andrews

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Rig Contr.: Savanna 610

API#: 4200345584

AFE#: 1306181

### Total Costs to Date

| Daily Cost Total | Cum Cost To Date |
|------------------|------------------|
| 17,635.33        | 251,505.62       |

|                      |  |                         |
|----------------------|--|-------------------------|
| Spud Date            | Ground/Corrected Ground Elevation (ft) | KB-Ground Distance (ft) |
| 9/18/2013 2:00:00 AM | 3,280.00                               | 17.50                   |

### Daily Operations

9/23/2013 06:00 - 9/24/2013 06:00

Operation Summary # 1

Drill, WLS & Rig Service.

### Time Log

| Start Time | End Time | Dur (hrs) | Cum Dur (hrs) | Comment                  |
|------------|----------|-----------|---------------|--------------------------|
| 06:00      | 08:30    | 2.50      | 2.50          | Drill f/ 5,206' - 5,363' |
| 08:30      | 09:00    | 0.50      | 3.00          | WLS @ 5,320' - 0.7 Deg   |
| 09:00      | 15:45    | 6.75      | 9.75          | Drill f/ 5,363' - 5,739' |
| 15:45      | 16:00    | 0.25      | 10.00         | Rig Service              |
| 16:00      | 18:15    | 2.25      | 12.25         | Drill 5,739' - 5,832'    |
| 18:15      | 18:30    | 0.25      | 12.50         | WLS @ 5,790' - 0.5 Deg   |
| 18:30      | 03:00    | 8.50      | 21.00         | Drill f/ 5,832' - 6,270' |
| 03:00      | 03:15    | 0.25      | 21.25         | Rig Service              |
| 03:15      | 03:45    | 0.50      | 21.75         | Drill f/ 6,270' - 6,302' |
| 03:45      | 04:15    | 0.50      | 22.25         | WLS @ 6,260' - 0.3 Deg   |
| 04:15      | 06:00    | 1.75      | 24.00         | Drill f/ 6,302' - 6,375' |





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AFE#: 1306181

### Total Costs to Date

| Daily Cost Total | Cum Cost To Date |
|------------------|------------------|
| 16,369.88        | 267,875.50       |

|                      |  |                         |
|----------------------|--|-------------------------|
| Spud Date            | Ground/Corrected Ground Elevation (ft) | KB-Ground Distance (ft) |
| 9/18/2013 2:00:00 AM | 3,280.00                               | 17.50                   |

### Daily Operations

9/24/2013 06:00 - 9/25/2013 06:00

Operation Summary # 1

Drill, WLS & Rig Service.

### Time Log

| Start Time | End Time | Dur (hrs) | Cum Dur (hrs) | Comment                  |
|------------|----------|-----------|---------------|--------------------------|
| 06:00      | 15:00    | 9.00      | 9.00          | Drill f/ 6,375' - 6,771' |
| 15:00      | 15:30    | 0.50      | 9.50          | WLS @ 6,728' - 0.5 Deg   |
| 15:30      | 16:00    | 0.50      | 10.00         | Drill f/ 6,771' - 6,803' |
| 16:00      | 16:15    | 0.25      | 10.25         | Rig Service              |
| 16:15      | 21:00    | 4.75      | 15.00         | Drill f/ 6,803' - 7,021' |
| 21:00      | 21:30    | 0.50      | 15.50         | Rig Service              |
| 21:30      | 01:15    | 3.75      | 19.25         | Drill f/ 7,021' - 7,209' |
| 01:15      | 01:45    | 0.50      | 19.75         | WLS @ 7,167' - 0.7 Deg   |
| 01:45      | 06:00    | 4.25      | 24.00         | Drill f/ 7,209' - 7,375' |



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API#: 4200345584

AFE#: 1306181

| Total Costs to Date |                  |
|---------------------|------------------|
| Daily Cost Total    | Cum Cost To Date |
| 33,607.42           | 301,482.92       |

|                      |  |                         |
|----------------------|--|-------------------------|
| Spud Date            | Ground/Corrected Ground Elevation (ft) | KB-Ground Distance (ft) |
| 9/18/2013 2:00:00 AM | 3,280.00                               | 17.50                   |

### Daily Operations

9/25/2013 06:00 - 9/26/2013 06:00

Operation Summary # 1

DRLG F/ 7375-7551, CIRC HOLE CLEAN F/ LOGS, SURVEY, TOH F/ LOGS, R/U HALLIBURTON LOGGERS & SAFETY MEETING, LOGGING WELL, R/D LOGGERS, TIH W/ BIT TO BOTTOM

### Time Log

| Start Time | End Time | Dur (hrs) | Cum Dur (hrs) | Comment  |
|------------|----------|-----------|---------------|--|
| 06:00      | 08:30    | 2.50      | 2.50          | DRLG F/ 7375-7551 WOB-30K RPM-75 PP-1100 SPM-125 GPM-366 |
| 08:30      | 11:30    | 3.00      | 5.50          | CIRC TD @ 7551 08:30 9-25-2013<br>222 JTS IN HOLE        |
| 11:30      | 12:15    | 0.75      | 6.25          | CONN SURVEY @ 7513 INC-1.2                               |
| 12:15      | 18:00    | 5.75      | 12.00         | TOH F/ LOGS, SLM NO CORRECTION                           |
| 18:00      | 19:00    | 1.00      | 13.00         | RIG UP HALLIBURTON MUD LOGGERS & SAFETY MEETING          |
| 19:00      | 01:00    | 6.00      | 19.00         | LOGGING W/ HALLIBURTON LOGGING TOOLS, LOGGERS TD 7551    |
| 01:00      | 02:00    | 1.00      | 20.00         | RIG DOWN LOGGERS   |
| 02:00      | 06:00    | 4.00      | 24.00         | TIH  |



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Rig Contr.: Savanna 610

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AFE#: 1306181

| Total Costs to Date |                  |
|---------------------|------------------|
| Daily Cost Total    | Cum Cost To Date |
| 112,077.90          | 413,560.82       |

|                      |  |                         |
|----------------------|--|-------------------------|
| Spud Date            | Ground/Corrected Ground Elevation (ft) | KB-Ground Distance (ft) |
| 9/18/2013 2:00:00 AM | 3,280.00                               | 17.50                   |

### Daily Operations

9/26/2013 06:00 - 9/27/2013 06:00

Operation Summary # 1

FINISH TIH, WASH & REAM 61 FT. TO BOTTOM, CIRC, LDDP & DC'S, R/U CSG. CREW & RUN 5 1/2" CSG., WASH CSG. TO BOTTOM, CIRC, CEMENTING 1ST STG. ON 5 1/2" CSG., DROP BOMB & OPEN DV-TOOL, CIRC DV-TOOL

### Time Log

| Start Time | End Time | Dur (hrs) | Cum Dur (hrs) | Comment  |
|------------|----------|-----------|---------------|--|
| 06:00      | 06:30    | 0.50      | 0.50          | WASH & REAM F/ 7490-7551   |
| 06:30      | 08:00    | 1.50      | 2.00          | CIRC BOTTOMS UP  |
| 08:00      | 13:45    | 5.75      | 7.75          | LDDP & DC'S  |
| 13:45      | 14:45    | 1.00      | 8.75          | RIG UP BYRD POWER TONG & SAFETY MEETING  |
| 14:45      | 22:15    | 7.50      | 16.25         | RAN 173 JTS 5 1/2" 17# J-55 LT&C, CSG., SHOE @ 7551, FLOAT COLLAR @ 7505.6, MARKER JT. @ 5586.6, DV-TOOL @ 4483.5  |
| 22:15      | 22:45    | 0.50      | 16.75         | WASH CSG. TO BOTTOM F/ 7541-7551   |
| 22:45      | 23:45    | 1.00      | 17.75         | CIRC SURFACE TO SURFACE 6000 STROKES, & RECIPROCATATE PIPE 20 FT. CONTINUOUSLY   |
| 23:45      | 00:15    | 0.50      | 18.25         | RIG UP & HOLD SAFETY MEETING W/ RISING STAR, DISCUSS JOB   |
| 00:15      | 01:30    | 1.25      | 19.50         | CEMENT 5 1/2" CSG., 1ST STAGE 715 SKS STARBOND C WEIGHT 13.2 YIELD 1.59 WATER 7.87 GAL SK TOTAL SLURRY 210 BBLS W/ 0.5% C-15 + 0.5% C-16a + 0.1% C-51 + 1.5# STAR SEAL + 0.25% R-38 + 2% SALT<br>PUMP PLUG W/ 80 BBLS FRESH WATER & 93.50 BBLS DRLG MUD, BLUPED PLUG @ 01:29 ON 1 STG, BUMPED @1200 PSI THEN WENT TO 1750, FLOATS HELD |
| 01:30      | 02:00    | 0.50      | 20.00         | DROPPED BOMB ON DV TOOL TO OPEN  |
| 02:00      | 06:00    | 4.00      | 24.00         | OPEN DV-TOOL W/ 750 PSI, CIRC W/ RISING STAR, CIRCULATED 212 SKS CEMENT, CIRC W/ RISING STAR TOTAL 380 BBLS BEFORE TURNING OVER TO RIG TO COMPLETE 4 HOUR CIRCULATION ON DV-TOOL   |