

**University 11 A #7
Run 8 5/8" Surface Casing**

June 3, 2010 - Thursday
Spencer Cox / Hudson Cobb

AOL @ 3:30 pm. Tally and inspect 37 joints of J-55 24# 8 5/8" casing for surface job. Inspect float equipment and centralizers.

Cost:
Supervision (140 miles) \$500

June 4, 2010 - Friday
Spencer Cox / Hudson Cobb

AOL @ 5:00 p.m. Wait on crew to come out of hole w/ drill collars and rig up casing crew @ 6:30 p.m. RIH w/ casing as follows:

| | | | |
|-----------|------------------------------|------------------|-----------|
| | 8 5/8" Tiger Tooth (shoe jt) | 1.00' | 1,440.00' |
| 1 | - 8 5/8" J-55 24# ST&C | 45.33' | 1,439.00' |
| | 8 5/8" Float Collar | 2.00' | 1,393.67' |
| <u>33</u> | - 8 5/8" J-55 24# ST&C | <u>1,396.29'</u> | -4.62' |
| 34 | | 1,444.62' | |

Centralizers were run on the shoe jt and after the 1st, 2nd, 6th, 10th, 13th, 18th, 22nd, 27th, 30th, and 32nd joints. Ran 3 jts and could not go down. Fill up after every joint until jt #31. Swage last three jts and wash down to TD. RU Halliburton at 8:30 p.m. and hold safety meeting. Begin pumping at 9:15 p.m. as follows:

- 20 bbls - Fresh water spacer
- 10 bbls - Gel spacer
- 10 bbls - Fresh water spacer
- 485 sx - EconoCem HLTRRC w/ 0.25 lbm PhenoSeal
- 200 sx - HalCem-C w/ 2% Calcium Chloride
- 88 bbls - Displacement

Pumped cement at 6.5 bpm and displaced at 7 bpm until 10 remaining bbls. Got cement returns w/ 55 bbls left in displacement. Dropped rate to 3.5 bpm and at 10:15 p.m. @ 540 psi. Displaced 86 bbls. Float held @ 1130 psi. Released pressure and SD Halliburton. Job ended at 3:15 pm. Circulated 167 sx cmt to surface.

Used 11 centralizers. Left 2 good jts (81.65') & 1 bad jt (43.00') on location.

Cost:

| | | |
|-------------------------|--------------|---------------|
| Halliburton | \$16,000 | |
| 37 jts of 8 5/8" csg | 23,000 | |
| Supervision (140 miles) | <u>1,000</u> | |
| | \$39,900 | Cum: \$40,400 |

**University 11A #7
Completion**

July 27, 2010 – Tuesday
Spencer Cox

AOL @ 4:00 p.m. RU Wireline and perforate the following: 7554', 7553', 7552', 7545', 7544', 7539', 7538', 7537', 7536', 7535', 7520' 7519', 7509', 7508', 7504', 7495', 7494', 7493', 7474', 7473', 7457', 7456', 7433', 7431', 7430', 7429' (26 holes). POH with perforating guns. SDFD.

Cost:
Basic (7 hrs) \$1,700
Halliburton (Perforating) 3,900
Supervision (150 miles) 300
\$5,900

July 28, 2009 – Wednesday
Spencer Cox

AOL @ 7:30 a.m. Unload 244 jts of J-55 tubing. TIH with PKR and tubing to 7421'. Leave PKR swinging. SDFD.

Cost:
Basic (6 hrs) \$1,400
BJC Oil Field Services 1,700
Supervision (150 miles) 1,000
\$4,100

Cum: \$10,000

July 29, 2010 – Thursday
Spencer Cox

RD to 7,557'. Pickle tubing with 150 gals of 15% Ferchek acid. Reverse out acid to pit. (Skim of oil on pit). Spot 150 gals of 15% Ferchek acid across perforations. PU 7 jts and set PKR at 7280' in 16 pts compression. Acidize well with 7750 gals of 15% Ferchek acid as follows:

| Stage | Volume (bbl) | Cum. Volume(bbl) | Balls | ✓ | Bbbl | Balls on Formation | Ball Action | Rate(BPM) | Pressure(PSI) |
|-------|--------------|------------------|-------|---|-------|--------------------|-----------------|-----------|---------------|
| 1 | 16.5 | 16.5 | 2 | ✓ | 44.5 | 2 | - | 3.5 | 1995 |
| 2 | 9.5 | 26 | 2 | ✓ | 54 | 4 | - | 3.5 | 1910 |
| 3 | 9.5 | 35.5 | 2 | ✓ | 63.5 | 6 | - | 4.1 | 2350 |
| 4 | 9.5 | 45 | 2 | ✓ | 73 | 8 | - | 4.1 | 2205 |
| 5 | 9.5 | 54.5 | 2 | ✓ | 82.5 | 10 | - | 4.2 | 1990 |
| 6 | 9.5 | 64 | 2 | ✓ | 92 | 12 | Ball Action | 4.2 | 1870 |
| 7 | 9.5 | 73.5 | 2 | ✓ | 101.5 | 14 | Ball Action | 4.3 | 1820 |
| 8 | 9.5 | 83 | 2 | ✓ | 111 | 16 | - | 4.0 | 1570 |
| 9 | 9.5 | 92.5 | 2 | ✓ | 120.5 | 18 | - | 4.1 | 1590 |
| 10 | 9.5 | 102 | 2 | ✓ | 130 | 20 | - | 4.1 | 1865 |
| 11 | 9.5 | 111.5 | 2 | ✓ | 139.5 | 22 | - | 4.1 | 1975 |
| 12 | 9.5 | 121 | 2 | ✓ | 149 | 24 | Ball Action | 4.1 | 1815 |
| 13 | 9.5 | 130.5 | 2 | ✓ | 158.5 | 26 | Ball Action | 4.1 | 1560 |
| 14 | 9.5 | 140 | 2 | ✓ | 168 | 28 | Ball Action | 4.1 | 1580 |
| 15 | 9.5 | 149.5 | 3 | ✓ | 177.5 | 31 | Ball Action | 4.1 | 1555 |
| 16 | 9.5 | 159 | 4 | ✓ | 187 | 35 | Ball Action | 4.1 | 1600 |
| 17 | 9.5 | 168.5 | 5 | ✓ | 196.5 | 40 | Ballout @ 4200# | 4.1 | 1600 |
| 18 | 9.5 | 178 | 5 | ✓ | 206 | 45 | - | 4.1 | 1785 |
| 19 | 6 | 184 | 0 | ✓ | 212 | 45 | - | 4.1 | 1935 |

Comments: Pressure fluctuating heavily in first part of job. After ballout surged pressure and waited 10 min for balls to fall pumped and pressure went up again. Surged well 7 times and could not release balls from perforations. Unset PKR and RD through perforations to knock off balls. PU above perforations and try to set PKR. Could not set PKR. Pulled up 1 std and could not set PKR. Pumped down the backside to remove any rubber material that might be affecting PKR setting mechanism. Formation on a vacuum.

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RD Halliburton and RU swab. Made 4 swab runs:

| Run | Fluid Level | Pulled From (Ft) | Actual Fluid | BBL | Description |
|-----|-----------------|------------------|--------------|-----|------------------------|
| 1 | 1800 | 3100 | 1200 | 5 | Water and acid |
| 2 | 2100 | 3500 | 1300 | 5 | Water/acid/skim of oil |
| 3 | 2300 | 3700 | 1300 | 5 | Acid/skim of oil |
| 4 | Sandline Parted | | | | |

Sand line parted with 1400' falling down hole. POH with PKR and tubing and cut sand line on the way out. Found that slips on PKR were damaged. RIH with PKR and tubing. SDFD.

Cost:

| | | |
|-------------------------|--------------|---------------|
| Basic (13 hrs) | \$ 3,100 | |
| Halliburton (Acidizing) | 20,000 | |
| BJC Oil Field Services | 2,500 | |
| Kinney Inc. | 700 | |
| Supervision (150 miles) | <u>1,000</u> | |
| | \$27,300 | Cum: \$37,300 |

July 30, 2010 – Friday

Spencer Cox

AOL @ 7:30 a.m. RD with PKR to 7280' and set in 15 pts compression. Make 22 swab runs as follows:

| Run | Fluid Level | Pulled From (Ft) | Actual Fluid | BBL | Description |
|-----|-------------|------------------|--------------|-----|----------------------------------|
| 5 | 3500 | 4400 | 1000 | 4 | Water skim of oil |
| 6 | 3600 | 4500 | 1000 | 4 | Water/paraffin/oil skim |
| 7 | 3700 | 4700 | 1000 | 4 | Water/paraffin/oil skim |
| 8 | 3700 | 4700 | 1000 | 4 | 5% oil cut/acid gas |
| 9 | 3800 | 4800 | 1000 | 4 | 10% oil cut/acid gas/water |
| 10 | 3800 | 4800 | 1000 | 4 | 10% oil cut/acid gas/water |
| 11 | 3800 | 4800 | 1000 | 4 | 10 % oil cut, very gassy |
| 12 | 3800 | 4800 | 1000 | 4 | 10 % oil cut, very gassy |
| 13 | 3800 | 4800 | 1000 | 4 | 5-10 % oil cut, very gassy |
| 14 | 3800 | 4800 | 1000 | 4 | 10% oil cut/water |
| 15 | 3800 | 4800 | 1000 | 4 | 25% oil cut/water/natural gas |
| 16 | 3800 | 4800 | 1000 | 4 | Bad Sample |
| 17 | 3800 | 4800 | 1000 | 4 | 25% oil cut/water/natural gas |
| 18 | 3800 | 4800 | 1000 | 4 | 15% oil cut/water/natural gas |
| 19 | 3800 | 4800 | 1000 | 4 | 20% oil cut/water/natural gas |
| 20 | 3800 | 4800 | 1000 | 4 | 20% oil cut/water/natural gas |
| 21 | 3800 | 4800 | 1000 | 4 | Bad Sample |
| 22 | 3800 | 4800 | 1000 | 4 | 15-20% oil cut/water/natural gas |
| 23 | 3800 | 4800 | 1000 | 4 | 20% oil cut/water/natural gas |
| 24 | 3800 | 4800 | 1000 | 4 | 20% oil cut/water/natural gas |
| 25 | 3800 | 4800 | 1000 | 4 | 20% oil cut/water/natural gas |
| 26 | 3800 | 4800 | 1000 | 4 | 20% oil cut/water/natural gas |

Recovered 120 bbls of 300 bbls.

SDFD.

Cost:

| | | |
|-------------------------|--------------|---------------|
| Basic (12 hrs) | \$2,800 | |
| Supervision (150 miles) | <u>1,000</u> | |
| | \$3,800 | Cum: \$41,100 |

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August, 2 2010 – Monday
Spencer Cox

AOL @ 7:30 a.m. There was 220 psi on tubing. Bleed down well. Unset PKR and POH with tubing and PKR. RIH with tubing as follows:

| | |
|--|---------------|
| 1 - 2 3/8" x 4 1/2" 30K TAC w/ tapped BP | 3.20' |
| 1 - 2 3/8" Perf sub | 6.00' |
| 1 - 2 3/8" SN | 1.10' |
| 244 - 2 3/8" J- 55 8rd EUE | 7602.35' |
| 1 - KB Adjustment | <u>13.00'</u> |
| | 7625.65' |

Set TAC in 14 pts tension. ND BOP. Started picking up rods and RIH with rods until rig broke down.

Cost:

| | | |
|-------------------------|------------|---------------|
| Basic (12 hrs) | \$ 2,800 | |
| Fiberod | 9,500 | |
| Permian Pump | 14,300 | |
| Production Specialty | 2,000 | |
| Supervision (130 miles) | <u>900</u> | |
| | \$29,500 | Cum: \$70,600 |

August, 3 2010 – Tuesday
Spencer Cox

Shut down for rig repair.

August, 4 2010 – Wednesday
Spencer Cox

AOL @ 7:30 a.m. Finish running rods and space out. Rod design is as follows:

| |
|--|
| 1 - 2" x 1 1/2" x 24' RXBC w/ 1" x 6' GA |
| 1 - 3/8" Stabilizer Bar with 3 molded rod guides |
| 1 - 3/8" x 2' Grd D Pony w/ SHSMC |
| 1 - 21K Shear Tool with 3/8" pins |
| 16 - 3/8" Grd D rods w/ SHTC |
| 116 - 3/4" Grd D rods w/ FHTC |
| 88 - 3/8" Grd D rods w/ SHTC |
| 57 - 1" Fiberod FG rods w/ 3/8" SHTC |
| 1 - 1" x 6' FG pony rod w/ 3/8" SHTC |
| 1 - 1 1/4" x 22' PR w/ 3/8" pin and a 1 1/4" x 1 1/2" x 12' PR Liner |

Checked pump action- was good. RD PU.

| | | |
|-------------------------|------------|---------------|
| Cost: | | |
| Basic (3 hrs) | \$ 700 | |
| Basic (BOP) | 600 | |
| Supervision (130 miles) | <u>300</u> | |
| | \$1,600 | Cum: \$72,200 |