

**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>	1,391.67'
34		1,444.62'	-4.62'

Centralizers were run on the shoe jt and after the 1<sup>st</sup>, 2<sup>nd</sup>, 6<sup>th</sup>, 10<sup>th</sup>, 13<sup>th</sup>, 18<sup>th</sup>, 22<sup>nd</sup>, 27<sup>th</sup>, 30<sup>th</sup>, and 32<sup>nd</sup> 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**  
**Run 4 ½" Production Casing**

**June 9, 2010 – Wednesday**  
 Spencer Cox

Unload 59 jts of 11.6#/ft, 1 short jt, 25 jts of Ryt-Wrapped 10.5#/ft, 120 jts of 10.5#/ft w/ 10.5 XO & 11.6#/ft. Tallied and inspected pipe.

Cost:  
 Supervision (130 miles)                      \$500

**June 18, 2010 - Friday**  
 Spencer Cox

AOL @ 12:00 p.m. Drill pipe and DC's were in derrick. RU Halliburton wireline and RIH to 7696'. Did not experience any drag or problems getting down hole. Drillers tally was 7705'. There was a difference of 11 ft between Halliburton wireline measurement and drillers tally.

Cost:  
 Supervision (130 miles)                      \$300                                      Cum: \$800

**June 19, 2010 – Saturday**  
 Spencer Cox

Rig was out of the hole with drill pipe and collars by 2:30 a.m. Started running casing @ 3:00 a.m. Float shoe was put on bottom of shoe jt w/ Weld-A. Float collar was put on top of shoe jt w/ Weld-A. Centralizers were placed as shown on casing report (20 total). Casing was filled & circulated after jts 10, 71, 137 & last jt. Casing was run as shown on casing report.

		7,700.00'
Float shoe	1.00'	7,699.00'
1 - Shoe jt, 4 ½", 11.6#, J-55, LT&C	41.21'	7,657.79'
Float Collar	1.50'	7,656.29'
22 - 4 ½", 11.6#, J-55, LT&C	890.33'	6,765.96'
14 - 4 ½", 10.5#, J-55, ST&C	542.54'	6,223.42'
1 - 4 ½", 10.5#, J-55, ST&C (marker jt)	13.80'	6,209.62'
13 - 4 ½", 10.5#, J-55, ST&C	508.28'	5,701.34'
25 - 4 ½", 10.5#, J-55, ST&C (Ryt-Wrap)	983.61'	4,717.73'
95 - 4 ½", 10.5#, J-55, ST&C	3,663.80'	1,053.93'
26 - 4 ½", 11.6#, J-55, LT&C	1055.32'	-1.39'
197	7,701.39'	

Started pumping cement job @ 10:15 a.m. Cement was pumped as follows:

5 bbls Fresh water  
 24 bbls Super Flush 101  
 10 bbls Gel  
 290 sx Versacem H w/ 3 lbm/sk PhenoSeal  
 565 sx Versacem H w/ 0.5% LAP-1, 0.4% CFR-3 w/o Defoamer, 3% Salt, 0.25 lb D-AIR 3000

Dropped plug & cleaned lines & pump to pit. Displaced @ 7 bpm. At 10 bbls left of displacement slowed to 3 bpm. Bumped plug at 1500 psi, increased pressure to 2000 psi and held for 2 min. Released pressure and flowed back. Float equipment held. Job ended at 11:15 a.m.

Used 20 centralizers. Left 2 good jts (82.41') on location.

Cost:  
 197 jts of 4 ½" csg                      \$56,300  
 Halliburton                                      19,800  
 Supervision (130 miles)                      900  
     \$77,000                                      Cum: \$77,800

**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.

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 - 7/8" Grd D rods w/ SHTC
- 116 - 3/4" Grd D rods w/ FHTC
- 88 - 7/8" Grd D rods w/ SHTC
- 57 - 1" Fiberod FG rods w/ 7/8" SHTC
- 1 - 1" x 6' FG pony rod w/ 7/8" 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