

University 11 #10 Completion

December 16, 2013 – Monday

Carlos Sanchez

Road rig from the Cochise lease. AOL @ 3:00 pm. Racked tbg on sills. RU PU. Put WH on. NU BOP. RU to run tbg. Close well in & SDFN @ 6:30 pm.

Cost:

DOI Rig #1 (5 hrs)	\$1,700
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December 17, 2013 – Tuesday

Christian Cotton / Branden Weeks

AOL @ 7:30 AM. RU Halliburton Wireline and perforate the Wichita Albany as follows: 7565', 7564', 7562', 7561', 7560', 7559', 7527', 7526', 7518', 7517', 7516', 7502', 7501', 7452', 7451', 7441', 7442', 7431', 7430', 7429', 7425', 7424', 7423', 7395', 7394', 7393', 7339', 7338', 7337', 7298', 7297', 7296', 7161', 7159', 7155', 7154', 7150', 7149', 7148', 7139', 7138', 7113', 7112', 7107', 7106', 7092', 7046', 7045', 7017', 7016', 7013', 7012' (52 holes). Perforated 7565'-7429' on 1st run and had to pull out due to 3 misfires (7560', 7441', 7429'). Perforated 3 misfires plus 7425'-7046' on 2nd run. Perforated 7045'-7102' on 3rd run. All wireline was done with "select fire", w/ 30 – 1' guns in succession. RD Halliburton. Pick up Model R packer and RBP and tally tubing going in hole. RIH w/ 238 jts and pull back above perfs to 6900'. SI well. SDFN @ 9:00 PM.

*Note: The day prior to running wireline we noticed OH and cased-hole logs did not match depths. As you compared logs further up the hole the offsets continued to grow. Halliburton claimed it was an open-hole error and worked to try and correct the issue to correlate the logs. Jeff and Christian correlated open-hole perforations to cased-hole. When running wireline we ran a gamma tool and collar locator. We logged the bottom 1600' and after making initial 8' correction found the gamma and CCL to be right on with prior cased hole log, proving the issue was on the OH side after all. Halliburton is to revise and correct OH logs.

Cost:

DOI #1 (16 hrs)	\$ 5,300	
SCA oil tools	2,300	
Halliburton wireline	8,500	
Supervision (100 miles)	<u>1,100</u>	
	\$17,200	Cum: \$18,900

December 18, 2013 – Wednesday

Christian Cotton / Branden Weeks

AOL @ 7:10 AM. RIH w/ RBP to 7613' and lay down 1 jt. RU Acid Specialists and spot 200 gals 15% HCl acid across perfs (had circulation while displacing). Pull up above perfs. Pump 3 bbls of P/W reverse with no returns to clear out any acid above PKR. Set packer @ 7192' in 12 points compression. Load backside w/ P/W and SI with 585 psi. Formation broke @ 2410# / 2 bpm. Acid treat formation w/ 8000 gals of 15% HCL w/ 2 gals/1000 corrosion inhibitor, 2 gals/1000 surfactant, 4 gals/1000 anti-sludge, and 5 gals/1000 iron reducer as follows:

Stage	Vol (Gals)	Cum Vol (Gals)	Balls	Total Balls	Ball Action	Rate (BPM)	Pressure (psi)
1	750	750	2	2		4.1	3060
2	400	1150	2	4		4.2	2950
3	400	1550	2	6		4.1	2700
4	400	1950	2	8		4.1	2770
5	400	2350	2	10		4.0	2750
6	400	2750	2	12		4.1	2730
7	400	3150	2	14		4.1	2700
8	400	3550	2	16	Slight ball action	4.0	2760
9	400	3950	2	18		4.1	2830
10	400	4350	2	20	Slight ball action	4.0	2920
11	400	4750	2	22		4.1	2880
12	400	5150	2	24		4.0	2735
13	400	5550	2	26	Slight ball action	4.1	2730
14	400	5950	2	28	Good ball action	4.1	2800
15	400	6350	2	30	Slight ball action	4.1	2700
16	400	6750	2	32		4.0	2870
17	400	7150	2	34		4.1	2600
18	400	7550	5	39		4.1	2520
19	200	7750	6	45		4.1	2570

ISIP = 857#, 5min SIP = 593#, 10 min SIP = 524#.

Never did ball out after pumping 45 balls, displaced 1 bbl past perforations. Bleed well down (approx 20 bbls). RIH w/ 6 stds and retrieve RBP. Pull 6 stds out and set RBP @ 7192'. Lay down 1 jt and spot 3 bbls of 15% acid. Pull 5 stds and pump 3 bbls of P/W reverse with no returns to clear out any acid above PKR. Set PKR @ 6868'. Load backside w/ PW to 680#. Formation broke @ 1915# / 2.1 bpm. Acid treated formation w/ 4000 gals of 15% HCL w/ 2 gals/1000 corrosion inhibitor, 2 gals/1000 surfactant, 4 gals/1000 anti-sludge, and 5 gals/1000 iron reducer as follows:

Stage	Vol (Gals)	Cum Vol (Gals)	Balls	Total Balls	Ball Action	Rate (BPM)	Pressure (psi)
1	400	400	1	1		3.7	2390
2	200	600	1	2		4.1	2410
3	200	800	1	3		3.9	2330
4	200	1000	1	4		4.1	2310
5	200	1200	1	5		4.0	2400
6	200	1400	1	6		4.1	2370
7	200	1600	1	7		4.0	2350
8	200	1800	1	8		4.1	2250
9	200	2000	1	9	Slight ball action	4.1	2365
10	200	2200	1	10		4.0	2380
11	200	2400	1	11		4.1	2400
12	200	2600	1	12		4.0	2410
13	200	2800	1	13	Good ball action	4.0	2420
14	200	3000	2	15	Great ball action	3.9	2415
15	200	3200	3	18		4.0	2850
16	200	3400	4	22	Ball out @ 4400#	3.9	3970
17	200	3600	5	27		4.1	2310
18	200	3800	6	33		4.0	2290

After we balled out, surged back 2 times and proceeded to pump the rest of the acid away. On flush we got good ball action, over-displaced 5 bbls.

ISIP = 737#, 5min SIP = 608#, 10 min SIP = 548#.

RIH and latch onto RBP and release and take it to bottom. Pull back up to 6868' and set PKR. RU swab and RIH w/ sandline. Swab as follows:

Run	Fluid Level	Pulled From	Bbls Recovered	Oil Cut (%)	Comments
1	500	2000	6	0	
2	900	2700	13	0	
3	1300	2300	20.5	0	
4	1600	3600	28	skim	acid gas
5	1800	3800	35.5	skim	acid gas
6	1800	4200	44.5	skim	acid gas
7	1500	3600	52	1%	good oil and gas
8	800	3600	62	1%	good oil and gas
9	1700	3700	69	2%	good oil and gas

Close well in and SDFN @ 7:30 PM.

Cost:

DOI #1 (14 ½ hrs)	\$ 4,800
SCA oil tools (Hand + Tools)	1,400
ACID Specialists	27,200
EE trucking	1,000
BOP rental	500
Supervision (200 miles)	<u>1,200</u>
	\$36,100

Cum: \$55,000

December 19, 2013 - Thursday

Branden Weeks

AOL @ 7:40 AM. SITP = 1300#. Open up well to pit and blew gas off in 15min. Fluid hit and flowed 20 bbls of oil. Released packer to kill the well. TIH w/ 12 stds and retrieved RBP. POOH w/ tool and RIH with production tbg as follows:

1	-	2 ⅜" Perforated sub w/ tapped BP	4.00'
1	-	2 ⅜" x 4 ½" TAC	3.10'
1	-	2 ⅜" SN (@ 7522')	1.10'
237	-	2 ⅜" J- 55 8rd EUE 4.7#	7511.64'
		KB Adjustment	<u>10.00'</u>
			7529.84'

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After RIH w/ 25 stds well started to flow. Opened it up to the pit and flowed for an hour and died. Started back in the hole. With 25 stds out well started to flow again and had to get a truck to kill the well so we could get in the hole and the BOP off. ND BOP and set TAC w/ 12 pts of tension. Flange up the well and SI well. SDFN @ 7:30 PM.

Cost:

DOI #1 (14 ½ hrs)	\$4,800	
SCA oil tools (Hand + Tools)	1,000	
Lenorah Trucking	500	
Supervision (100 miles)	<u>900</u>	
	\$7,200	Cum: \$62,200

December 20, 2013 - Friday

Branden Weeks / Carlos Sanchez

AOL @ 9:00 AM. SITP = 240#, SICP = 800#. Bled csg down. Pumped 45 bbls of PW down tbg. Killed tbg. Picked up pump and rods and RIH as follows:

- 1 - 2" x 1 ¼" x 20' pump w/ 1" x 12" strainer nipple
- 1 - ⅞" x 4' Stabilizer bar
- 1 - ⅞" x 25' Grd D rod
- 1 - 21K Shear Tool
- 11 - ⅞" x 25' Grd D rods
- 88 - ¾" x 25' Grd D rods
- 85 - ⅞" x 25' Grd D rods
- 77 - 1" x 37.5' FG rods
- 1 - 1 ¼" x 22' PR w/ 1 ½" x 10 liner

Spaced well out. Load tbg w/ 9 bbls. Pressure up to 500#. Long-stroked well to 500#. RD PU. SDFN @ 4:30 pm.

Cost:

DOI #1 (11 ½ hrs)	\$ 3,800	
JCPS	25,500	
Lenorah Trucking	500	
Supervision (100 miles)	<u>900</u>	
	\$30,700	Cum: \$92,900