

Zone:

AFE # 131237

Original Comp. Clayton Wade

Jan 9, 2014 Thursday (Day 1)

AOL, MIRU One Source PU. Set Anchors. RU pipe racks, cw and rig mat. Rack and tally 362 JTS 2 7/8" L80 EUE 8RD TBG. ND cap flange, NU OFTR BOP. RIH W/ 222 JTS. SIW and SD 6:30pm.

Daily Cost: \$230,600

Cum. Cost: \$230,600

Jan 10, 2014 Friday (Day 2)

AOL, One Source Energy Services RIH W/ 133 JTS for a total of 355 JTS and Tag TBG PBTD @ 11626'. RU Cudd Energy Services and 3 Vakero H2O transports W/ 2 %KCL. Pressure Test casing to 4800lbs, good test. Pickle well W/ 500ga xylene, 5 BBLs H2O, and 500ga 15% HCL NeFe @ 11622', 243 BBLs H2O to circulate going down the backside. POH and LD 1 joint. Spot 1000ga 10% Acetic @ 11589', 61 BBLs H2O to displace going down the TBG. RD Cudd and Vakero. One Source POH and LD 67 JTS. SIW and SD 3pm to wind.

Daily Cost: \$17,100

Cum. Cost: \$247,700

Jan 11, 2014 Saturday (Day 3)

SDFWE

Daily Cost: \$1,100

Cum. Cost: \$248,800

Jan 12, 2014 Sunday (Day 4)

SDFWE

Daily Cost: \$1,100

Cum. Cost: \$249,900

Jan 13, 2014 Monday (Day 5)

AOL, One Source POH and LD JTS 2 7/8" L80 TBG.

Daily Cost: \$5,600

Cum. Cost: \$255,500

Jan 13, 2014 Monday (Day 5)

AOL, One Source POH and LD 288 JTS 2 7/8" L80 TBG. RD MO. Ready to perf lowers.

Daily Cost: \$5,600

Cum. Cost: \$255,500

Jan 14, 2014 Tuesday

Waiting on report

Jan 15, 2014 Wednesday (Day 6)

MI RU HES wireline & kill truck. TIH w/ RCBL/GR/CCL logging tools. Tag PBTD @ 11,624'. Logged from 11,622' to 2600' w/ 1500 psi.Est. TOC @ 2897'. POOH w/ tools. RD Release HES wireline & kill truck. Ready to perforate stage #1. No reports until further activity.

Daily Cost: \$10,170

Cum. Cost: \$265,670

Feb 12, 2014 Wednesday (Day 7)

MI & set 10 frac tanks + 1 acid tank. ND 7 1/16" x 5k production head; NU 7 1/16" x 10k frac stack. Ready to perforate stage #1.

Daily Cost: \$8,450

Cum. Cost: \$274,120

Feb 13, 2014 Thursday (Day 8)

Ready to perforate stage #1.

Daily Cost: \$2,000

Cum. Cost: \$276,120

Feb 14, 2014 Friday (Day 9)

Ready to perforate stage #1.

Daily Cost: \$2,000

Cum. Cost: \$278,120

Feb 15, 2014 Saturday (Day 10)

Ready to perforate stage #1.

Daily Cost: \$2,000

Cum. Cost: \$280,120

Feb 16, 2014 Sunday (Day 11)
Ready to perforate stage #1.

Daily Cost: \$2,000
Cum. Cost: \$282,120

Feb 17, 2014 Monday (Day 12)

STAGE 1: MIRU Frac Specialists, Cased Hole Solutions, and Performance Chemicals. Held safety meeting. Frac Penn @ 11,314'-11,602'- 45 holes. FMBD 6223 PSI. Sand fracture treated with a 16LB/1000 GAL cross-linked gel as follows: 8,022 GALS treated water, 4,032 GALS NeFe 15 % HCL acid, 65,016 GALS pad, 124,572 GALS frac fluid, & 204,264 LBS of RCS Pearl 20/40 mesh proppant. Total Load GALS 201,642. Maximum pressure 6178 PSI, 5789 PSI average treating pressure, maximum pump rate 65.8 BPM, average rate 65 BPM. ISIP-4453 PSI. Frac gradient- .83 PSI/FT. BLWTR-4801.

STAGE 2: Set plug @ 11,300'. Frac Strawn @ 11,063'- 11,286'- 100 holes. FMBD at 6200 PSI. Sand fracture treatment with a 16LB/1000 GAL cross-linked gel as follows: 7,476 GALS treated water, 17,514 GALS NeFe 15 % HCL acid, and 24,318 GALS pad. Total load GALS 49,308. Maximum pressure 5963 PSI, 3161 PSI average treating pressure, maximum pump rate 49.8 BPM, average rate 38 BPM. ISIP-3198 PSI. Frac gradient-0.73 PSI/FT. BLWTR-1174.

STAGE 3: Set plug @ 11,000'. Frac Lower Wolfcamp @ 10,628'- 10,888'- 55 holes. FMBD at 3625 PSI. Sand fracture treated with a 16LB/1000 GAL cross-linked gel as follows: 7,392 GALS treated water, 2016 GALS NeFe 15 % HCL acid, 47,208 GALS pad, 125,832 GALS frac fluid and 200,596 LBS of RCS Pearl 20/40 mesh proppant. Total load GALS 182,448. Maximum pressure 5105 PSI, 4714 PSI average treating pressure, maximum pump rate 70.7 BPM, average rate 70.5 BPM. ISIP-3672 PSI. Frac gradient-0.78 PSI/FT. BLWTR-4344.

STAGE 4: Set plug @ 10,350'. Frac Wolfcamp Lime @ 9,876'-10,107'. Sand fracture treated with a 16LB/1000 GAL cross-linked gel as follows: 6972 GALS treated water, 2016 GALS NeFe 15 % HCL acid, 48,426 GALS pad, 130,578 GALS frac fluid, and 210,943 LBS of GARNETT 20/40 mesh proppant. Total load GALS 187,992. Maximum pressure 4477 PSI, 4031 PSI average treating pressure, maximum pump rate 71.1 BPM, average rate

Daily Cost: \$2,500
Cum. Cost: \$284,620

Feb 18, 2014 Tuesday

(Day 13)

STAGE 5: Set plug @ 9,860'. Frac Lower Sprayberry @ 9,410'-9,844'- 47 holes. FMBD at 2000 PSI. Sand fracture treated with a 15LB/1000 GAL cross-linked gel as follows: 5,376 GALS treated water, 2016 GALS NeFe 15 % HCL acid, 52,080 GALS pad, 128,436 GALS frac fluid, 40,992 LBS of GARNETT 20/40 proppant and 234,000 LBS of OTTAWA 20/40 proppant. Total load GALS 187,908. Total proppant 274,992 LBS. Maximum pressure 3567 PSI, 3306 PSI average treating pressure, maximum pump rate 67.9 BPM, average rate 67.7 BPM. ISIP-1377 PSI. Frac gradient-0.58 PSI/FT. BLWTR- 4474.

STAGE 6: Set plug @ 9,350'. Frac Lower Sprayberry @ 8,328'-9,133'- 35 holes. FMBD at 1561 PSI. Sand fracture treated with a 15LB/1000 GAL cross-linked gel as follows: 4,578 GALS treated water, 2016 GALS NeFe 15 % HCL acid, 42,000 GALS pad, 113,610 GALS frac fluid, 41,548 LBS of GARNETT 20/40 mesh proppant and 204,000 LBS of OTTOWA 20/40 proppant. Total load GALS 162,204. Total proppant 245,548 LBS. Maximum pressure 3746 PSI, 2825 PSI average treating pressure, maximum pump rate 70.3 BPM, average rate 69.5 BPM. Frac gradient-0.59 PSI/FT. BLWTR - 3862.

STAGE 7: Set plug @ 8,280'. Frac Lower Leon @ 8,050'-8,224'- 63 holes. FMBD at 1615 PSI. Sand fracture treated with a 15LB/1000 GAL cross-linked gel as follows: 5,586 GALS treated water, 2016 GALS NeFe 15 % HCL acid, 40,236 GALS pad, 107,352 GALS frac fluid, 40,505 LBS of GARNETT 20/40 proppant and 190,000 LBS of OTTAWA 20/40 proppant. Total load GALS 155,190. Total proppant 230,505 LBS. Maximum pressure 3607 PSI, 2720 PSI average treating pressure, maximum pump rate 69.7 BPM, average rate 66.9 BPM. Frac gradient-0.65 PSI/FT. BLWTR-3695.

STAGE 8: Set plug @ 8,030'. Frac Upper Leon @ 7,644'-8,014'- 56 holes. FMBD at 1451 PSI. Sand fracture treated with a 15LB/1000 GAL cross-linked gel as follows: 6,846 GALS treated water, 56,154 GALS pad, 162,708 GALS frac fluid, 40,848 LBS of GARNETT 20/40 proppant and 298,000 LBS of OTTAWA 20/40 proppant. Total load GALS 225,708. Total proppant 338,848 LBS. Maximum pressure 4923 PSI, 3655 PSI average treating pressure, maximum pump rate 70.7 BPM, average rate 65 BPM. Frac gradient-0.67 PSI/FT. BLWTR-5374. Frac with Frac Specialists pumping services. Fracture treated 8 stages. Pumped 52,248 GALS treated water, 31,626 GALS NeFe 15% HCL acid, 375,438 GALS Water Frac XL G-R (15) and 893,088 GALS Water Frac (GR-15) 15 LBS/1000 GAL carrying 615,803 LBS of RCS PEARL proppant, 163,893 LBS GARNETT 20/40 proppant, and 926,000 LBS OTTOWA 20/40 proppant. Total Load GALS 1,352,400 GALS. Total proppant 1,705,696 LBS. BLWTR 32,200 BBLs.

| VENDOR | ITEM | \$ U.S. |
|-----------------------|----------------|------------|
| FRAC SPECIALISTS | FRAC | 625,585.68 |
| CASED HOLE SOLUTIONS | WIRELINE | 32,541.20 |
| GENERAL PLUG & SUPPLY | PLUGS | 14,860.63 |
| LENOIR | WATER TRANSFER | 12,590.40 |

| | | |
|----------------------|----------------------|-----------|
| PERFORMANCE CHEMICAL | SCALE INHIBITOR | 23,548.80 |
| PROTECHNICS | RA TAG | 34,960.00 |
| TDC QA/QC | 4,500 | |
| WILDBLUE EQUIPMENT | LIGHT TOWERS-LODGING | 1540 |

| | |
|-------------|-------------|
| Daily Cost: | \$755,522 |
| Cum. Cost: | \$1,040,142 |

Feb 19, 2014
Finished fracking. Waiting on report

Feb 20, 2014
Waiting on report

Feb 21, 2014 Friday (Day 16)
Hookup flowline to flowback tanks. Opened well @ 12:00 p.m. 850 psi; 18/64" choke.

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|-------------|-------------|
| Daily Cost: | \$1,300 |
| Cum. Cost: | \$1,043,442 |

Feb 22, 2014 Saturday (Day 17)
800 psi; 110 BLWR;

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|-------------|-------------|
| Daily Cost: | \$1,050 |
| Cum. Cost: | \$1,044,492 |

Feb 23, 2014 Sunday (Day 18)
800 psi; 770 BLWR;

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|-------------|-------------|
| Daily Cost: | \$2,535 |
| Cum. Cost: | \$1,047,027 |

Feb 24, 2014 Monday (Day 19)
800 psi; 660 BLWR

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|-------------|-------------|
| Daily Cost: | \$2,508 |
| Cum. Cost: | \$1,051,435 |

Feb 25, 2014 Tuesday (Day 20)
300 psi; 550 BLWR; 24/64" choke

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|-------------|-------------|
| Daily Cost: | \$2,370 |
| Cum. Cost: | \$1,053,805 |

Feb 26, 2014 Wednesday (Day 21)
0 psi; 510 BLWR; 32/64" choke.

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|-------------|-------------|
| Daily Cost: | \$2,340 |
| Cum. Cost: | \$1,056,145 |

Feb 27, 2014 Thursday (Day 22)
0 psi; 440 BLWTR

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|-------------|-------------|
| Daily Cost: | \$2,076 |
| Cum. Cost: | \$1,058,221 |

Feb 27, 2014 Thursday (Day 22)
0 psi; 440 BLWTR AOL 7:30 am. MI set rig mat. RU PU. RU One Source pump trk. Pumped 180 bbls 10# brine. CWI one hour. Well still flowing. Pumped 100 bbls 10# brine. CWI. Set racks and catwalk. Moved 362 jts 2-7/8 L80 tbg to racks. CWI SD.

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|-------------|-------------|
| Daily Cost: | \$8,676 |
| Cum. Cost: | \$1,064,821 |

Feb 28, 2014 Friday (Day 23)
AOL 7:30 am. PSI 450 psi on csg. Bled well down to 120 psi. Flow back 120 bbls. Left well flowing over weekend. SD

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|-------------|-------------|
| Daily Cost: | \$7,200 |
| Cum. Cost: | \$1,072,021 |

Mar 1, 2014 Saturday (Day 24)
Flowed 440 bbls to frac tank overnight.

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|-------------|-------------|
| Daily Cost: | \$2,900 |
| Cum. Cost: | \$1,074,921 |

Mar 2, 2014 Sunday (Day 25)
Recovered 180 BLW

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| | | Daily Cost: | \$1,740 |
| | | Cum. Cost: | \$1,076,661 |
| Mar 3, 2014 | Monday | (Day 26) | |
| AOL 7:30 am. RU One Source pump trk. Pumped 50 bbls 10# brine down csg. RU vac trk on csg. Well running over. ND frac head. NU well head and BOP. Ran 4-5/8 hurricane bit, pump open sub, 159 jts 2-7/8 L80 tbg. CWI SD | | | |
| | | Daily Cost: | \$10,930 |
| | | Cum. Cost: | \$1,087,591 |
| Mar 4, 2014 | Tuesday | (Day 27) | |
| AOL 7:00 am. Ran 74 jts 2-7/8 tbg. Broke circulation. Tag @ 8025' c/o 5' sand. DP #1 @ 8030'. Tag @ 8234' c/o 51' sand. DP #2 @ 8285'. Tag @ 9130'. c/o 42' sand @ 9172'. Circulate clean. Pumped 20 bbls 10# brine down tbg. Pulled 23 stands. CWI SD. | | | |
| | | Daily Cost: | \$10,300 |
| | | Cum. Cost: | \$1,097,891 |
| Mar 5, 2014 | Wednesday | (Day 28) | |
| AOL 7:00 am. Ran 23 stands 2-7/8 tbg. Tag @ 9172' c/o 133' sand. DP @ 9305'. Tag @ 9830' c/o 35' sand. DP @ 9865'. Tag @ 10340' c/o 10' sand. Drilled on plug @ 10350' for 30 mins. Circulate clean. Pumped 20 bbls 10# brine down tbg. Pulled 40 stands 2-7/8 tbg. CWI SD | | | |
| | | Daily Cost: | \$8,650 |
| | | Cum. Cost: | \$1,106,541 |
| Mar 6, 2014 | Thursday | (Day 29) | |
| AOL 7:00 am. Ran 40 stands 2-7/8 tbg. Tag @ 10350'. Finished drilling plug. Tag @ 10970' c/o 30' sand. DP @ 11000'. RT. DP @ 11300'. RT. Tag @ 11600' c/o 26' sand to TD 11626' kb. Pumped 15 bbls 10# brine. Pulled 66 stands. Pumped 90 bbls 10# brine. CWI SD | | | |
| | | Daily Cost: | \$10,950 |
| | | Cum. Cost: | \$1,117,491 |
| Mar 7, 2014 | Friday | (Day 30) | |
| AOL 7:00 am. Pumped 180 bbls 10# brine down tbg. RD reverse unit. LD 121 jts 2-7/8 L80 tbg. Pulled 50 stands, pump open sub, bit. Ran 2-7/8 collar, 232 jts 2-7/8 tbg. CWI SD. | | | |
| | | Daily Cost: | \$7,950 |
| | | Cum. Cost: | \$1,125,441 |
| Mar 8, 2014 | Saturday | (Day 31) | |
| SDFWE | | | |
| | | Daily Cost: | \$950 |
| | | Cum. Cost: | \$1,126,391 |
| Mar 9, 2014 | Sunday | (Day 32) | |
| SDFWE | | | |
| | | Daily Cost: | \$1,000 |
| | | Cum. Cost: | \$1,127,391 |
| Mar 10, 2014 | Monday | (Day 33) | |
| AOL 7:00 am. MI RU Precision Pressure Data Wireline to log. Ran spectra scan gamma ray from 7147-11679. RD wireline. RU One Source pump trk. Pumped 180 bbls 10# brine down tbg. Left well open to frac tank. SD. | | | |
| | | Daily Cost: | \$20,350 |
| | | Cum. Cost: | \$1,147,741 |
| Mar 11, 2014 | Tuesday | (Day 34) | |
| AOL 7:30 am. 400 psi on tbg. MI RU One Source Pump trk. Pumped 180 bbls 10# brine down tbg. Pulled 232 jts 2-7/8 tbg. Ran BP, 1- MA jt, 8' sand screen, 2-7/8 x 5-1/2 TAC, packer, gas separator, 2' x 2-7/8 sub, mech SN w/18" strainer, 60 stands 2-7/8 tbg. CWI SD due to wind. | | | |
| | | Daily Cost: | \$58,700 |
| | | Cum. Cost: | \$1,206,441 |
| Mar 12, 2014 | Wednesday | (Day 35) | |
| AOL 7:30 am. MI RU One Source pump trk. Pumped 180 bbls down tbg. Did not kill well. Ran ck valve in tbg. Ran 60 stands 2-7/8 tbg. Pumped 180 bbls down tbg. Well still flowing. Brine water 8.6. CWI SD One Source will get 10# brine for morning of 10/14/14 | | | |
| | | Daily Cost: | \$8,120 |
| | | Cum. Cost: | \$1,214,561 |

Mar 13, 2014 Thursday (Day 36)

AOL 7:30 am. MI RU One Source pump trk. Pumped 180 bbls 10# brine down tbg. Pulled 66 stands 2-7/8 tbg. Removed check valve. Ran 66 stands back in hole. ND BOP. Set TAC 20 pts. Land tbg. RU rod tools. Ran 2.5 x 1.5 x 30' RXBM pump, 26 K shear tool, 8- 1-1/2" kbars w/full hole T couplings, 79- 1" kd rods w/ slim hole T couplings. CWI SD

Daily Cost: \$15,350

Cum. Cost: \$1,230,311

Mar 14, 2014 Friday (Day 37)

AOL 7:30 am. Ran 141- 1.25 fg rods, 1- 18', 1- 9', 1- 3' subs, 1-1/2 x 26' polish rod. Space well. Hung well on. Load and test 500 psi. Pressure w/pump 500 psi. RD PU. NU well head. Released to production. Final report.

Daily Cost: \$9,100

Cum. Cost: \$1,239,411

| Date | Lease | WELL # | BOPD | MCFD | BWPD | Tbg PSI | Csg PSI | Inj Rate | Choke Size | Remarks |
|-----------|----------------|--------|------|------|------|---------|---------|----------|------------|-----------|
| 3/14/2014 | Samson Univ 18 | 6 | | | | | | | | No test |
| 3/15/2014 | Samson Univ 18 | 6 | | | | | | | | No test |
| 3/16/2014 | Samson Univ 18 | 6 | 2 | 0 | 386 | | | | | Frac tank |
| 3/17/2014 | Samson Univ 18 | 6 | | | | | | | | No test |
| 3/18/2014 | Samson Univ 18 | 6 | | | | | | | | No test |
| 3/19/2014 | Samson Univ 18 | 6 | 10 | 0 | 290 | | | | | |
| 3/20/2014 | Samson Univ 18 | 6 | 10 | 0 | 290 | | | | | |
| 3/21/2014 | Samson Univ 18 | 6 | 10 | 0 | 325 | | | | | |
| 3/22/2014 | Samson Univ 18 | 6 | 7 | 0 | 296 | | | | | |
| 3/23/2014 | Samson Univ 18 | 6 | 1 | 0 | 284 | | | | | |
| 3/24/2014 | Samson Univ 18 | 6 | 0 | 0 | 345 | | | | | |
| 3/25/2014 | Samson Univ 18 | 6 | 0 | 0 | 345 | | | | | |
| 3/26/2014 | Samson Univ 18 | 6 | 25 | 0 | 385 | | | | | |
| 3/27/2014 | Samson Univ 18 | 6 | 15 | 0 | 300 | | | | | |
| 3/28/2014 | Samson Univ 18 | 6 | 15 | 0 | 370 | | | | | |
| 3/29/2014 | Samson Univ 18 | 6 | 10 | 0 | 377 | | | | | |
| 3/30/2014 | Samson Univ 18 | 6 | 33 | 0 | 280 | | | | | |
| 3/31/2014 | Samson Univ 18 | 6 | 36 | 0 | 266 | | | | | |
| 4/1/2014 | Samson Univ 18 | 6 | 25 | 0 | 195 | | | | | |
| 4/2/2014 | Samson Univ 18 | 6 | | | | | | | | No test |
| 4/3/2014 | Samson Univ 18 | 6 | 49 | 62 | 162 | | | | | |
| 4/4/2014 | Samson Univ 18 | 6 | 170 | 19 | 296 | | | | | |
| 4/5/2014 | Samson Univ 18 | 6 | 28 | 79 | 232 | | | | | |
| 4/6/2014 | Samson Univ 18 | 6 | 63 | 150 | 250 | | | | | |