

**FORGE Energy**  
**UL 14 Conway 3421H**  
**API Number: 42-003-46897**

**12/04/2014**

Rig Name:

10:00 HPJSM

10:30 M&V installed 2" line w/ 3000 psi gauge on SC, SC @ 0 psi.

**12/19/2014**

Rig Name:

07:00 HPJSM

07:30 MIRU Canary WH.

08:00 NU double studded adapter flange 7 1/16" 10K x 5 1/8" 10K, 5 1/8" 10K master valve, 5 1/8" 10K flow cross w/ 2 1/6" 10K wing valve, 5 1/8" 10K crown valve, & 5 1/8" 10K goat head w/ WL adaptor cap.

08:30 RDMO Canary WH.

09:00 MIRU Renegade test pump.

09:15 Psi test frac stack, 250# low, & 8500# high.

09:45 RDMO Renegade test pump.

10:00 MIRU Spartan's Manifold, Renegade WL, WES, & Enersafe Shower Trailer & H2S equip. RU 3000 psi gauge to monitor 9 5/8" surface csg, csg @ 0 psi. Surface csg @ 0 psi during job.

12:00 Test lines to 7350 psi. Open well @ 0 psi & load CSG w/ 1 BFW. Start on water, psi up to 2500 psi, SD, & psi bled off to 0 psi. Double check lines & pumps. Able to pump 2.5 BPM, 2210 psi. SD & psi bled to 0 psi. SWI.

14:00 RDMO WES & Renegade WL.

**12/20/2014**

Rig Name:

06:00 0 Accidents, 0 Incidents, 0 Spills.  
HPJSM.

06:30 RU/Redzone/Cornell/Halliburton

07:30 Function test BOP, pull test coil disconnect 30,000# ,load coil 50bbls., test coil 3,000psi, made up BHA, hook up to well test lubricator & lines to 4500psi, TIH

08:30 @4100' Wt. check 13,500 up -- 10,400 down, TIH-Pumping 1bpm

09:30 on depth with plug 9255', launch ball-2bpm, @40 bbls. slow rate to 1bpm, ball on setting tool 46bbls.-plug set-test 6200psi, good test, TOH

12:00 OH with coil-break off setting tool & jars

14:00 Made up Perf. assembly RUW, TIH

14:30 on depth with guns-spot acid-gun #1 fired @9226'-9227', 4200psi  
2bpm-3400psi, 4bpm-2600psi, 6bpm-2600psi, 8bpm-2800psi, 10bpm-2600psi

brokeback to 2200psi-ISIP-1600psi,5min-1400psi,10min1350psi  
17:30 pull up to 9079-9080',launch ball,settled ,gun fired 5100psi,pull up to 8932-8933,gun #3 fired-7min,pull up to 8985-8986' gun #4 fired in 7 min,pull up to 8638-8639', gun #5 fired 7min.  
18:30 POOH w/ CT & spent perf guns. SWI.  
20:00 Disassemble E&P's spent perfs guns.  
20:30 RU N2 Unit, blow down reel, & RDMO N2 Unit.  
21:00 RDMO RZ CTU.

**12/21/2014**

Rig Name:

**12/22/2014**

Rig Name:

**12/23/2014**

Rig Name:

07:00 HPJSM  
07:30 DTR set 4 FTs, AT, & FBT.  
14:00 Davila's Trucking offloaded 120 BFW into AT.

**12/24/2014**

Rig Name:

**12/25/2014**

Rig Name:

**12/26/2014**

Rig Name:

**12/27/2014**

Rig Name:

**12/28/2014**

Rig Name:

**12/29/2014**

Rig Name:

06:00 SAFETY MEETING / JSA PRIOR TO RU , DISCUSSED OVERHEAD LOADS , PROPER PPE , PINCH POINTS  
06:15 RU PROPETRO , RENEGADE WL , RENEGADE TEST PUMP , TRANSWATER

**12/30/2014**

Rig Name:

06:00 Prime up pumps & test lines to 6800 psi. Set kill switches from 5800-6100 psi & pop

- off @ 6100 psi.
- 07:30 Roll acid & titrate @ 11%.
- 08:30 HPJSM
- 09:00 Pump Stage #1, pumped 163,296 gals of Slickwater, 72,576 gals of 15# X-link fluid, 12,684 gals of treated water, & 4000 gals of 15% HCl acid, w/ 18,541 lbs 100 mesh, 71,336 lbs 40/70 White, 102,288 lbs 20/40 White, & 43,041 lbs of 20/40 Garnet. Max psi: 5705 psi, Avg psi: 4865 psi, Max rate: 83 bpm, Avg rate: 74 bpm. Approx load to rec 6,018 bbls. ISIP: 2337 psi, 5 min: 1639 psi, 10 min: 1504 psi. Surface csg @ 63 psi.
- 11:00 Stage 2- Pump Down P/U 5 1/2" Frac Caged Ball Plug on Baker 20 setting tool & 3 1/8" - 5 Cluster Perf Assy. Test Lubricator to 4500 PSI. RIH & get on depth w/ MJ @ 4065'-4085'. RIH & Pump Down @ 15 BPM W/ 1700 PSI, Time Spot 1000 Gal. 15% HCL, Spot CBP @ 8512' & Finish Spotting Acid at 8 BPM W/ 900 PSI, Set CBP @ 8512', Psi up to 4500 PSI, P/U & Fire Gun #1 @ 8491'- 8492', 10 Shots, 6 SPF, 60 Degree Phasing, 22.7 Gram Charges, .42 EHD, P/U and Spot Gun #2 @ 8344'- 8345' & Inject 6 BBLs Acid, Fire Gun #2 @ 8344'- 8345', 8 Shots, 6 SPF, 60 Degree Phasing, 22.7 Gram Charge, .42 EHD, P/U & Fire Gun #3 @ 8197'-8198', 8 Shots, 6 SPF, 60 Degree Phasing, 22.7 Gram Charge, .42 EHD, P/U & Fire Gun #4 @ 8050'-8051', 8 Shots, 60 Degree Phasing, 22.7 Gram Charges, .42 EHD, P/U & Fire Gun #5 @ 7903'-7904', 6 Shots, 60 Degree Phasing, 22.7 Gram Charge, .42 EHD. POOH & LD w/ Baker 20 setting tool & 3 1/8" - 5 Cluster Perf Assy. Verified all shots fired.
- 13:00 Pump Stage #2, pumped 160,776 gals of Slickwater, 71,862 gals of 15# X-link fluid, 8,862 gals of treated water, & 4000 gals of 15% HCl acid, w/ 18,830 lbs 100 mesh, 71,629 lbs 40/70 White, 97,550 lbs 20/40 White, & 46,948 lbs of 20/40 Garnet. Max psi: 5648 psi, Avg psi: 5007 psi, Max rate: 80 bpm, Avg rate: 78 bpm. Approx load to rec 5,848 bbls. ISIP: 3092 psi, 5 min: 2406 psi, 10 min: 2308 psi. Surface csg @ 35 psi.
- 14:30 Stage 3- Pump Down P/U 5 1/2" Frac Caged Ball Plug on Baker 20 setting tool & 3 1/8" - 5 Cluster Perf Assy. Test Lubricator to 4500 PSI. RIH & get on depth w/ MJ @ 4065'-4085'. RIH & Pump Down @ 15 BPM W/ 2400 PSI, Time Spot 1000 Gal. 15% HCL, Spot CBP @ 7777' & Finish Spotting Acid at 8 BPM W/ 2100 PSI, Set CBP @ 7777', Psi up to 4500 PSI, P/U & Fire Gun #1 @ 7756'- 7757', 10 Shots, 6 SPF, 60 Degree Phasing, 22.7 Gram Charges, .42 EHD, P/U and Spot Gun #2 @ 7609'- 7610' & Inject 6 BBLs Acid, Fire Gun #2 @ 7609'- 7610', 8 Shots, 6 SPF, 60 Degree Phasing, 22.7 Gram Charge, .42 EHD, P/U & Fire Gun #3 @ 7462'-7463', 8 Shots, 6 SPF, 60 Degree Phasing, 22.7 Gram Charge, .42 EHD, P/U & Fire Gun #4 @ 7315'-7316', 8 Shots, 60 Degree Phasing, 22.7 Gram Charges, .42 EHD, P/U & Fire Gun #5 @ 7168'-7169', 6 Shots, 60 Degree Phasing, 22.7 Gram Charge, .42 EHD. POOH & LD w/ Baker 20 setting tool & 3 1/8" - 5 Cluster Perf Assy. Verified all shots fired.
- 15:30 Pump Stage #3, pumped 162,162 gals of Slickwater, 77,154 gals of 15# X-link fluid, 7,854 gals of treated water, & 4000 gals of 15% HCl acid, w/ 18,984 lbs 100 mesh, 71,003 lbs 40/70 White, 99,471 lbs 20/40 White, & 46,542 lbs of 20/40 Garnet. Max psi: 5812 psi, Avg psi: 5247 psi, Max rate: 81 bpm, Avg rate: 75 bpm. Approx load to rec 5,985 bbls. ISIP: 3163 psi, 5 min: 2271 psi, 10 min: 2182 psi. Surface csg @ 35 psi.

17:00

Stage 4- Pump Down P/U 5 1/2" Frac Caged Ball Plug on Baker 20 setting tool & 3 1/8" - 5 Cluster Perf Assy. Test Lubricator to 4500 PSI. RIH & get on depth w/ MJ @ 4065'-4085'. RIH & Pump Down @ 15 BPM W/ 2700 PSI, Time Spot 1000 Gal. 15% HCL, Spot CBP @ 7042' & Finish Spotting Acid at 8 BPM W/ 2300 PSI, Set CBP @ 7042', Psi up to 4500 PSI, P/U & Fire Gun #1 @ 7021'- 7022', 10 Shots, 6 SPF, 60 Degree Phasing, 22.7 Gram Charges, .42 EHD, P/U and Spot Gun #2 @ 7021'- 7022' & Inject 6 BBLs Acid, Fire Gun #2 @ 6874'- 6875', 8 Shots, 6 SPF, 60 Degree Phasing, 22.7 Gram Charge, .42 EHD, P/U & Fire Gun #3 @ 6727'-6728', 8 Shots, 6 SPF, 60 Degree Phasing, 22.7 Gram Charge, .42 EHD, P/U & Fire Gun #4 @ 6580'- 6581', 8 Shots, 60 Degree Phasing, 22.7 Gram Charges, .42 EHD, P/U & Fire Gun #5 @ 6433'-6434', 6 Shots, 60 Degree Phasing, 22.7 Gram Charge, .42 EHD. POOH & LD w/ Baker 20 setting tool & 3 1/8" - 5 Cluster Perf Assy. Verified all shots fired.

18:00 Freeze protect all frac equip w/ brine water.

**12/31/2014**

Rig Name:

06:30 HPJSM

07:00 Pump Stage #4, pumped 87,066 gals of Slickwater, 183,078 gals of 15# X-link fluid, 4000 gals of 15% HCL acid, w/ 18,952 lbs 100 mesh, 71,848 lbs 40/70 White, 95,644 lbs 20/40 White, & 48,396 lbs of 20/40 Garnet. Max psi: 6003 psi, Avg psi: 5489 psi, Max rate: 80 bpm, Avg rate: 54 bpm. Approx load to rec 6,708 bbls. ISIP: 2814 psi, 5 min: 1893 psi, 10 min: 1607 psi. Surface csg @ 95 psi.

09:00 Stage 5- Pump Down P/U 5 1/2" Frac Caged Ball Plug on Baker 20 setting tool & 3 1/8" - 5 Cluster Perf Assy. Test Lubricator to 4500 PSI. RIH & get on depth w/ MJ @ 4065'-4085'. RIH & Pump Down @ 15 BPM W/ 2200 PSI, Time Spot 1000 Gal. 15% HCL, Spot CBP @ 6307' & Finish Spotting Acid at 8 BPM W/ 1600 PSI, Set CBP @ 6307', Psi up to 4500 PSI, P/U & Fire Gun #1 @ 6286'- 6287', 10 Shots, 6 SPF, 60 Degree Phasing, 22.7 Gram Charges, .42 EHD, P/U and Spot Gun #2 @ 6139'- 6140' & Inject 6 BBLs Acid, Fire Gun #2 @ 6139'- 6140', 8 Shots, 6 SPF, 60 Degree Phasing, 22.7 Gram Charge, .42 EHD, P/U & Fire Gun #3 @ 5992'-5993', 8 Shots, 6 SPF, 60 Degree Phasing, 22.7 Gram Charge, .42 EHD, P/U & Fire Gun #4 @ 5845'- 5846', 8 Shots, 60 Degree Phasing, 22.7 Gram Charges, .42 EHD, P/U & Fire Gun #5 @ 5698'-5699', 6 Shots, 60 Degree Phasing, 22.7 Gram Charge, .42 EHD. POOH & LD w/ Baker 20 setting tool & 3 1/8" - 5 Cluster Perf Assy. Verified all shots fired.

10:00 Pump Stage #5, pumped 158,592 gals of Slickwater, 70,770 gals of 15# X-link fluid, 4000 gals of 15% HCL acid, w/ 18,829 lbs 100 mesh, 71,404 lbs 40/70 White, 98,226 lbs 20/40 White, & 46,530 lbs of 20/40 Garnet. Max psi: 5726 psi, Avg psi: 4508 psi, Max rate: 80 bpm, Avg rate: 77 bpm. Approx load to rec 5,711 bbls. ISIP: 3044 psi, 5 min: 2166 psi, 10 min: 2067 psi. Surface csg @ 95 psi.

12:00 Stage 6- Pump Down P/U 5 1/2" Frac Caged Ball Plug on Baker 20 setting tool & 3 1/8" - 5 Cluster Perf Assy. Test Lubricator to 4500 PSI. RIH & get on depth w/ MJ @ 4065'-4085'. RIH & Pump Down @ 15 BPM W/ 2300 PSI, Time Spot 1000 Gal. 15%

HCL, Spot CBP @ 5572' & Finish Spotting Acid at 8 BPM W/ 1900 PSI, Set CBP @ 5572', Psi up to 4500 PSI, P/U & Fire Gun #1 @ 5551'- 5552', 10 Shots, 6 SPF, 60 Degree Phasing, 22.7 Gram Charges, .42 EHD, P/U and Spot Gun #2 @ 5404'- 5405' & Inject 6 BBLs Acid, Fire Gun #2 @ 5404'- 5405', 8 Shots, 6 SPF, 60 Degree Phasing, 22.7 Gram Charge, .42 EHD, P/U & Fire Gun #3 @ 5257'-5258', 8 Shots, 6 SPF, 60 Degree Phasing, 22.7 Gram Charge, .42 EHD, P/U & Fire Gun #4 @ 5110'- 5112', 8 Shots, 60 Degree Phasing, 22.7 Gram Charges, .42 EHD, P/U & Fire Gun #5 @ 4963'-4964', 6 Shots, 60 Degree Phasing, 22.7 Gram Charge, .42 EHD. POOH & LD w/ Baker 20 setting tool & 3 1/8" - 5 Cluster Perf Assy. Verified all shots fired.

- 13:00 Pump Stage #6, pumped 161,406 gals of Slickwater, 70,350 gals of 15# X-link fluid, 4000 gals of 15% HCL acid, w/ 18,826 lbs 100 mesh, 71,844 lbs 40/70 White, 98,546 lbs 20/40 White, & 45,434 lbs of 20/40 Garnet. Max psi: 5919 psi, Avg psi: 5196 psi, Max rate: 81 bpm, Avg rate: 72 bpm. Approx load to rec 5,546 bbls. ISIP: 3239 psi, 5 min: 2206 psi, 10 min: 2116 psi. Surface csg @ 95 psi. SWI. TLTR: 35,688 bbls.
- 15:00 RDMO Renegade WL, Renegade Test Pump, Transwater, & ProPetro.
- 17:00 MIRU 1/2 pits, Renegade, Enersafe, & Spartan's Plug Catcher. MIRU RedZone CTU & pump. ND 5 1/8" 10K WL Adapter. NU 5 1/8" 10K x 4 1/16" 10K spool & 4 1/16" 10K BOP. Function test Rams on BOP. PU 30' 5 1/8" 10k Lubricator. Pull test 2" connector to 30K.
- 20:00 MAKE UP CORNELL BHA
- 20:30 CONTINUE RU SPARTAN FLOWBACK EQUIPMENT , RENEGADE
- 23:30 SAFETY MEETING / JSA , DISCUSSED ICY CONDITIONS, PROPER PPE , H2S , WIND DIRECTION , PRESSURE PUMPING , OVERHEAD LOADS , DISCUSSED THAWING OUT FROZEN EQUIPMENT W/ PROPANE TORCH
- 00:00 THAW OUT SPARTAN FLOWBACK MANIFOLD W/ PROPANE TORCH
- 00:30 ATTEMPT TO THAW OUT RENEGADE FEEDER PUMP W/ PROPANE TORCH , PROPELLER FROZE UP 01:00 RENEGADE ORDERED FEEDER PUMP
- 01:15 WAIT ON RENEGADE FEEDER PUMP , 05:15 RENEGADE PUMP ON LOCATION
- 05:15 RU LINES TO RENEGADE FEEDER PUMP

#### **01/01/2015**

Rig Name:

- 06:00 BYPASS MIXING PLANT , 06:15 RZ CT PUMP FROZEN UP , DRAIN PUMP AND LINES
- 07:30 Wait on Temperature to warm up
- 12:00 HPJSM DISCUSSED ICY CONDITIONS, PROPER PPE , OVERHEAD LOADS, Wear harness while operating man lift.
- 12:30 RDMO chemical plant, CT unit, froze up.SDFN'

#### **01/02/2015**

Rig Name:

- 06:00 Wait on steamer to thaw wellhead.Steamer arrived on location froze up.Called

vendors and shut down operations till 1/2/2015.SDFN.

**01/03/2015**

Rig Name:

- 08:00 HPJSM
- 08:30 Thaw WH with steamer.
- 13:00 MIRU Spartan, Redzone CT, Renegade, Cornell, Enersafe. Hold JSA/ Safety Meeting.
- 17:00 ND WL Flange. NU BOP. NU Coil Connector,pull test 30,000 over & test to 3000#. Load coil w/ 50 bbls brine water. NU BHA (4 3/4" bit, X-over, Motor, X-over, Agitator, Circ sub, Hyd Disconnect, Jar, Back-press valve,2" coil).
- 18:00 Test motor to 3 bpm, 4800 psi. NU Lube to BOP.Load flowback system with brine water. Test lube to 4500 psi. Lube leaked.
- 19:00 REPAIR LEAK , PRESSURE TEST 4500 PSI
- 20:30 OPEN WH W/100 PSI , START DISPLACING BRINE OUT W/ FW , RIH W/ CT AT 20' FPM , CIRC PRESS 3000 PSI , WH 100 PSI , 2 BPM IN AND OUT , 21:00 FINISH DISPLACING 50 BBLS BRINE OUT , RIH W / CT
- 21:15 AT 2500' , START N2 AT 300 SCF , CIRC PRESS 1400 PSI , FLUID 2 BPM IN , 2.5 BPM OUT , RIH W/CT
- 21:30 AT 4100' , WT CK 21K , N2 300 SCF , CIRC PRESS 2600 PSI , WH 200 PSI , FLUID 3 BPM IN AND OUT , WAIT FOR WELL TO STABILIZE
- 22:00 N2 300 SCF , CIRC PRESS 2900 PSI , WH 450 PSI , FLUID 3 BPM IN AND OUT , RIH W/ CT
- 22:30 TAG PLUG #1 AT 5580' , N2 300 SCF , CIRC PRESS 3000 PSI , WH 440 PSI , FLUID 3 BPM IN AND OUT , WOB 3-5K , 22:59 THROUGH PLUG #1 , PUMP 10 BBL SWEEP , N2 400 SCF , CIRC PRESS 3300 PSI , WH 280 PSI , FLUID 3 BPM IN AND OUT
- 23:00 RIH W/ CT , 23:43 TAG PLUG #2 AT 6307' , N2 400 SCF , CIRC PRESS 3300 PSI , WH 400 PSI , FLUID 3 BPM IN AND OUT , WOB 3-5K , VERY LITTLE PLUG PARTS FROM PLUG #1 SWEEP ,12/3/2014 00:55 THROUGH PLUG #2 , PUMP 10 BBL SWEEP , N2 400 SCF , CIRC PRESS 3600 PSI , WH 300 PSI , FLUID 3.25 BPM IN AND OUT
- 01:00 RIH W/ CT , 01:15 TAG PLUG #3 AT 7042' , N2 400 SCF , CIRC PRESS 3650 PSI , WH 320 PSI , FLUID 3.25 BPM IN AND OUT , WOB 3-5K ,THROUGH PLUG #3 , N2 400 SCF , CIRC PRESS 3600 PSI , WH 300 PSI , FLUID 3.25 BPM IN AND OUT. WOB 3-5K , PUMP 20 BBL SWEEP
- 02:45 RIH W/ CT , 03:00 TAG PLUG #4 AT 7777' , PU 20' , N2 400 SCF , CIRC PRESS 4550 PSI , WH 340 PSI , FLUID 3.25 BPM IN AND OUT.WAIT ON SWEEP , 04:15 GOOD PLUG PARTS IN PLUG CATCHER FROM PLUG #3 SWEEP
- 04:15 04:30 RETAG PLUG #4 AT 7777' , N2 500 SCF , CIRC PRESS 3800 PSI , WH 250 PSI , FLUID 3.25 BPM IN AND OUT. WOB 3-5K

**01/04/2015**

Rig Name:

- 06:00 Continue to drill out plug 4 @ 7777.WOB 3-5k, CP 3800, WH 370, 3.25 bpm in & out, N2 500 SCF. Fell thru plug.Sent 10 bbl sweep
- 07:00 Had PJSM .Cont to RIH w/CT.@ 7:20- Tag Plug #5 @ 8512', 3- 5000# WOB. CP= 4530 psi. WHP= 310 psi. 3.5 bpm in/out.N2 500 SCF DTP- 2h 40 min. CP= 4200 psi. WHP= 230 psi. Run 10 bbl sweep.
- 10:00 Continue to RIH up N2 to 700 SCF w/ 3bpm in @ out.Tag PBTD @ 9237. Sent 10 bbl sweep/10 bbl spacer/10 bbl sweep. let sweeps get out of EOT.WHP 230.
- 10:30 Start POOH W/ CT.@ 5800' sent 10bbl sweep to sweep the curve.CP 4500, WHP 400, 3bpm in 3.5bpm out, N2 700 SCF.@ 1:30 out of the hole w/ CT and BHA. SICP 310
- 13:30 Disassemble Cornell's BHA and break down lube.
- 14:30 Blow down reel with N2
- 15:00 RDMO CTU ,Renegade,Enersafe, and Spartan plug catcher.
- 17:30 RU Spartan sand catcher & tie into FBT.
- 19:00 SPARTAN CONTINUED RU , INSTALLED SITE GLASS ON FLOWBACK TANK
- 19:45 19:45 SAFETY MEETING / JSA , DISCUSSED H2S , WIND DIRECTION , MUSTER STATIONS ON SW AND SE SIDE OF LOCATION , PROPER PPE , WIND BLOWING S TO SE
- 20:00 20:00 OPENED WH TO MANIFOLD W/ 240 PSI , OPENED ON 30/64" CHOKE W/ 100 PSI - PRESSURE DROPPING , OPEN ON FULL OPEN CHOKE W/ 30 PSI
- 21:00 30 psi. on Full opened choke , flowing 31 BPH , CL- 8296. H2S- 0 ppm. No Sand. Trace oil cut in sample bottle.
- 21:00 22:00 5 psi. on Full opened choke , flowing 40 BPH , CL- 11,852. H2S- 0 ppm. No Sand, Trace oil cut in sample bottle.
- 22:00 01:00 5 psi. on Full opened choke , flowing 19 BPH , CL- 22,518. H2S- 0 ppm. No Sand, Trace oil cut in sample bottle.
- 01:00 05:00 5 psi. on Full opened choke , flowing 11 BPH , CL- 22,518. H2S- 0 ppm. No Sand, Trace oil cut in sample bottle. TTL RECOVERY LAST 24 HRS 186 BBLs , LOAD 35688 BBLs , LOAD REMAINING 35502 BBLs
- 05:00 06:00 5 psi. on Full opened choke , flowing 6 BPH , CL- 22,518. H2S- 0 ppm. No Sand, Trace oil cut in sample bottle.

**01/05/2015**

Rig Name:

- 06:00 06:00 5 psi. on Full opened choke , flowing 6 BPH , CL- 22,518. H2S- 0 ppm. No Sand, Trace oil cut in sample bottle.
- 07:00 WHP 5 psi. on Full opened choke , flowing 3 BPH , CL- 22,518. H2S- 0 ppm. No Sand, Trace oil cut in sample bottle.TTL RECOVERY LAST 24 HRS 9 BBLs , LOAD 35688 BBLs , LOAD REMAINING 35943 BBLs. Shut in well.ISIP 10 PSI.HPJSM discussing RD flowback equipment,slips and trip hazards,good

communication,use of harness when working in man lift, proper PPE at all times  
07:30 RDMO Spartan flowback  
12:30 Canary crane,Double A BOP, Davilla kill truck on location.HPJSM discussing overhead loads, stay clear of pumptruck when killing well,PPE.  
13:00 RU kill truck and Canary crane. Check WHP 20 PSI.Open well pump 40 bbls 10# brine water, trickle 10 bbls,50 bbls total pumped , well on vacuum.ND frac stack,NU BOP.Shut in well. Well secured with BLIND RAMS closed.  
15:00 RDMO Canary crane and Davilla kill truck.SDFN

#### **01/06/2015**

Rig Name:

08:00 Wait on supersucker to arrive on location. @ 11:00 supersucker on location.  
11:00 HPJSM discussing slip and trip hazards,proper PPE at all times,good communication.  
11:30 MIRU supersucker and clean out half pits  
13:00 RDMO supersucker. Turn over to production department

#### **01/09/2015**

Rig Name: AAA #116

#### **01/12/2015**

Rig Name: AAA #116

15:00 MIRU AAA WSU

#### **01/13/2015**

Rig Name: AAA #116

07:00 HPJSM - JSA REVIEW  
07:30 HPJSM - SPOT PIPE RACKS NEXT TO WSU - TRANSFER TBG TO PIPE RACKS AND TALLY - PRE-CHECKS ON ESP EQUIPMENT -  
09:30 RIH WITH: BP: .45'/4070.04', 2 2.875" 6.5# J-55 PC TBG: 65.95'/4069.59', DESANDER: 4'/4003.64', PHOENIX SENSOR: 2'/3999.64', REDA MOTOR: 28.30'/3997.64', PROTECTOR: 8'/3969.64', INTAKE: 3.3'/3961.34', AGH: 6.3'/3958.04', D3500N PUMP 1: 20.60'/3951.74', D3500N PUMP 2: 13.40'/3931.14', D3500N PUMP 3: 13.40'/3917.74', BOH: .8'/3904.34', 1 2.875" TUBING SUB: 6'/3904.54', SEAT NIPPLE: 1.10'/3897.54', 119 JTS 2.875" 6.5# J-55 TUBING: 3872.64'/33896.44', 1 JT 2.875" 6.5# J-55 TBG SUB: 4'/23.80', TUBING HANGER: .8'/19.8'  
14:30 SPACE OUT AND MAKE LOWER PIGTAIL SPLICE - LAND TBG HANGER IN ADAPTER BOWL -  
16:30 R/D BOP AND PARTIALLY RIG UP WELL HEAD -  
17:00 IPIP: 1712 - CHECK ROTATION - START ESP VSD AT 45 HZ - FLUID TO SERVICE - MONITOR FOR 5 MINUTES AND SHUT DOWN VSD -  
17:30 R/D AAA WSU AND MOVE TO SIDE OF LOCATION

#### **06/17/2015**

Rig Name: AAA #116

**07/12/2015**

Rig Name: AAA #116

**07/31/2015**

Rig Name: AAA #116

07:00 HPJSM  
07:30 MIRU ARIES WSU #47 -  
09:30 POOH WITH SCHLUMBEGER DN3500 ESP -  
13:00 RIH/POOH WITH 4 3/4" BIT, SCRAPER AND 4900' 2 7/8" 6.5# J-55 TUBING -  
SECURE WELL FOR NIGHT

**08/01/2015**

Rig Name: AAA #116

07:00 Held TGSM. Got pump ready to run, spotted in spoolers  
09:00 Assembled and started in the hole with ESP.  
10:30 TIH with ESP, 6' sub, SN, 144 jts of tubing, 8' sub, 25 cable protectors, and 3 bands per jt.  
15:00 Made cable splice.  
16:30 ND BOP, NU well head.  
17:30 Down hole sensor wouldn't read, had to unseat tubing and check connections

**08/02/2015**

Rig Name: AAA #116

07:00 HPJSM  
07:30 HPJSM - M/U LANDING JOINT - PULL STRING UP TO RIG FLOOR -  
DISCONNECT FROM MINI MANDREL AND CUT OFF LOWER PIGTAIL -  
LOWER PIGTAIL TESTED GOOD - CHECK #4 FLAT CABLE AND IT  
CHECKED GOOD (NO GROUND) - POOH WITH TUBING AND STAND IN  
DERRICK - PULL ESP ASSEMBLY UP TO POT HEAD AND DISCONNECT  
MLE - TEST CABLE AND IT IS GOOD TEST SENSOR FROM POT HEAD AND  
STILL NO SENSOR READING - LAY ESP COMPONENTS DOWN AND SEND  
IN FOR INSPECTION AND REPAIR - CLOSE BLIND RAMS AND SECURE  
WELL FOR NIGHT

**08/03/2015**

Rig Name: AAA #116

07:00 HPJSM  
07:30 PRE CHECK OF ESP COMPONENTS  
09:00 P/U AND RIH WITH ESP BHA - POOH TO POT HEAD AND M/U MLE - M/U  
1/4" CT LINE 18" ABOVE INTAKE AND BAND TO ESP AND TUBING WITH  
MLE AND #4 FLAT CABLE TO SURFACE - USE TWENTY-FIVE COLLAR  
CABLE PROTECTORS AND 2 MONEL BANDS PER JOINT - AFTER LAST

CABLE COLLAR PROTECTOR IS INSTALLED, M/U 3 MONEL BANDS PER JOINT TO SURFACE -

15:00 M/U HANGER AND MAKE LOWER PIGTAIL SPLICE - MAKE 1/4" CT LINE TO BOTTOM OF HANGER

16:00 - LAND HANGER - TEST CT LINE FOR FREE FLOW - R/D BOP AND R/U WELLHEAD - PUMP INTAKE PRESSURE: - CHECK ROTATION AND GET FLUID TO SURFACE - RDMO ARIES WSU