

**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 pump truck 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