

FORGE Energy
UL 13 Dover 4426H
API Number: 42-003-46847

10/31/2014

Rig Name:

12/04/2014

Rig Name:

08:00 HPJSM

08:30 M&V installed 2" line w/ 3000 psi gauge on SC, SC @ 0 psi.

12/10/2014

Rig Name:

07:30 0 Accidents. 0 Incidents. 0 Spills. Hold JSA Safety Meeting. Discuss Overhead hazards, Trip Hazards, Finger Hazards. Evac Plan. RU Canary Wellhead. NU Upper Frac Valve Section to lower valve. ND Well head capping flange. NU 7 1/16" 10K x 5 1/8" 10K spool, 10K lower master valve, flowcross, upper 10K valve & goat head, to B-section. Test lower FSA to 250 psi. Low 5 min. Test to 9000 psi. 5 min. Test upper section. Have leak on WL Adapter Cap. Cannot get to hold. Wait on new Adapter Cap.

12:30 Load hole & Test Csg to 250 psi low. 5 min. Test to 6000 psi. 5 min. Release pressure. NU new WL Adapter. Test Upper Assy to 250 psi. 5 min. 9000 psi. 5 min. Release pressure. RD Canary Wellhead. Spartan RU Flow Line. Secure well. MOL.

12/11/2014

Rig Name:

11:00 HPJSM-Overhead crane,press on lines,pinch points & trips & falls

11:30 RU/ Redzone,Cornell,Schlumberger,&Warrior

13:30 Pull test coil disconnect 25,000#,load coil,Test coil 3000psi,BU Cornell BHA,RU to well,Test lubricator & lines to 5000psi

14:00 Made up Perf assembly,TIH

15:00 Did Wt check 3900' pickup, 13000#,going down 9500#,CTIH,

16:30 Tagged PBTD- 7753' pull up to7588',spot acid @ 2 bpm 1300psi

17:00 @ 16:55 acid on spot Start pumping 1 bpm down coil & annulus. Gun #1 fired @ 4400psi broke back to 4000psi,pumped 5bbls away.1bpm 1450psi ISIP-1300psi-5min-1050psi-10min - 1025psi--start pump 2bpm,1300psi--4bpm 1700psi--6bpm-1950psi--8bpm-2100psi--10 bpm-2300psi 20bbls gone 1900psi--flush complete 1850psi-pumped total 30bbls flush ISIP-1475psi,5min-1300psi,10 min 1275psi pull up to 7452' drop ball 2bpm in & out

18:00 Ball on seat-press up to 5100psi Gun # 2 @ 7451-52'fired, pull up to 7315-16' gun #3 fired in 8min press1300psi, pull up to Gun #4 @ 7179-80'fired in 8min press 1275psi ,pull up to gun #5 @7043-44'fired in 8min,press1250psi,TOH

19:00 POOH W/ CT

20:00 20:00 OUT OF HOLE W/ CT , SHUT-IN WELL , BREAK AND LD SLB TCP

GUNS , VERIFY ALL SHOTS FIRED , BREAK AND LD CORNELL TOOLS
 20:30 RZ BLEWDOWN REEL , ND 4 1/16" BOP , NU GH , RD CT UNIT AND PUMP
 21:30 RZ , SPARTAN , CORNELL , SLB OFF LOCATION
 21:30 VERIFIED WELL SHUT-IN AND SECURE , TURN OFF LIGHTPLANTS , 22:00
 OFF LOCATION

12/12/2014

Rig Name:

06:00 0 Accidents, 0 Incidents, 0 Spills.HPJSM Set frac tanks & acid tank.

12/13/2014

Rig Name:

07:00 0 Accidents, 0 Incidents, 0 Spills.PPE Wind direction,pinch points trips &
 fall,Andrews nearest Hospital
 HPJSM. Rig up Trans water,fill frack tanks

12/14/2014

Rig Name:

08:00 0 Accidents, 0 Incidents, 0 Spills.PPE Wind direction,pinch points trips &
 fall,Andrews nearest Hospital HPJSM.with Propetro drivers & sand drivers
 08:00 Spot sand mover-fill with sand

12/15/2014

Rig Name:

03:00 0 Accidents, 0 Incidents, 0 Spills. HPJSM discussing proper PPE, pinch points, and
 good communication. Stay hydrated, take breaks when needed. Discuss overhead
 crane hazards and slips, trips, and falls. Always use legs when lifting.
 03:30 RU ProPetro , Renegade WL , Transwater , Renegade Test pump.

12/16/2014

Rig Name:

06:00 Prime up pumps & roll acid. Test lines to 7400 psi. Set Kill Switches @ 5800-6100
 psi & Pop off @ 6100 psi.
 07:00 HPJSM
 07:30 Pump Stage #1, pumped 63,636 gals of Slickwater,194,418 gals of 15# X-link fluid,
 10,710 gals of treated water, & 1,000 gals of 15% HCl acid,5,184gal of 7.5% HCL
 acid, w/ 18,925 lbs 100 mesh, 71,751 lbs 40/70 White,100,365 lbs 20/40 White, &
 45,000 lbs of 20/40 Garnet. Max psi: 5984 psi, Avg psi: 5309 psi, Max rate: 74 bpm,
 Avg rate: 65bpm. Approx load to rec 6,569 bbls. ISIP: 1892 psi, 5 min: 1390 psi, 10
 min: 1995 psi. FG: .84. Surface csg @ 90 psi.
 10:00 WO Renegade WL's computer software.
 11:30 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 @ 3964'-3978'. RIH &
 Pump Down @ 15 BPM W/ 2200 PSI, Time Spot 1000 Gal. 15% HCL, Spot CBP @

6928' & Finish Spotting Acid @ 8 BPM W/ 1600 PSI, Set CBP @ 6928', Psi up to 4500 PSI, P/U & Fire Gun #1 @ 6907'- 6908', 10 Shots, 6 SPF, 60 Degree Phasing, 22.7 Gram Charges, .42 EHD, P/U and Spot Gun #2 @ 6771'- 6772' & Inject 6 BBLS Acid, Fire Gun #2 @ 6771'- 6772', 8 Shots, 6 SPF, 60 Degree Phasing, 22.7 Gram Charge, .42 EHD, P/U & Fire Gun #3 @ 6635'-6636', 8 Shots, 6 SPF, 60 Degree Phasing, 22.7 Gram Charge, .42 EHD, P/U & Fire Gun #4 @ 6499'- 6500', 8 Shots, 60 Degree Phasing, 22.7 Gram Charges, .42 EHD, P/U & Fire Gun #5 @ 6363'-6364', 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.

13:30 Pump Stage #2, pumped 45,066 gals of Slickwater, 191,478 gals of 20# X-link fluid, & 1000 gals of 15% HCl acid, 3000 gals of 7.5% HCL acid, 9,156 gals of treated water w/ 18,960 lbs 100 mesh, 71,801 lbs 40/70 White, 98,911 lbs 20/40 White, & 45,345 lbs of 20/40 Garnett. Max psi: 5984 psi, Avg psi: 5309 psi, Max rate: 74 bpm, Avg rate: 65 bpm. Approx load to rec 6,233 bbls. ISIP: 1892 psi, 5 min: 1390psi, 10 min: 1289 psi. FG: 0.84 Surface csg @ 93 psi.

15:30 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 @ 3964'-3978'. RIH & Pump Down @ 15 BPM W/ 2150 PSI, Time Spot 1000 Gal. 15% HCL, Spot CBP @ 6248' & Finish Spotting Acid at 8 BPM W/ 1550 PSI, Set CBP @ 6248', Psi up to 4500 PSI, P/U & Fire Gun #1 @ 6227'- 6228', 10 Shots, 6 SPF, 60 Degree Phasing, 22.7 Gram Charges, .42 EHD, P/U and Spot Gun #2 @ 6091'- 6092' & Inject 6 BBLS Acid, Fire Gun #2 @ 6091'- 6092', 8 Shots, 6 SPF, 60 Degree Phasing, 22.7 Gram Charge, .42 EHD, P/U & Fire Gun #3 @ 5955'-5956', 8 Shots, 6 SPF, 60 Degree Phasing, 22.7 Gram Charge, .42 EHD, P/U & Fire Gun #4 @ 5819'- 5820', 8 Shots, 60 Degree Phasing, 22.7 Gram Charges, .42 EHD, P/U & Fire Gun #5 @ 5683'-5684', 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.

17:30 Pump away acid w/ 25 bbls of treated water.SDFN

12/17/2014

Rig Name:

06:30 HPJSM

07:00 Pump Stage #3, pumped 145,698 gals of Slickwater, 81,606 gals of 15# X-link fluid, 6,846 gals of treated water, & 4,000gals of 15% HCl acid,w/ 18,813 lbs 100 mesh, 70,724 lbs 40/70 White, 100,641 lbs 20/40 White, & 44,856 lbs of 20/40 Garnet. Max psi: 6,010 psi, Avg psi: 5,087 psi, Max rate: 77 bpm, Avg rate: 68 bpm. Approx load to rec 5,671 bbls. ISIP: 2299 psi, 5 min: 1388 psi, 10 min: 1184 psi. FG: 0.92. Surface csg @ 135 psi.

09:00 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 @ 3964'-3978'. RIH & Pump Down @ 15 BPM W/ 1850 PSI, Time Spot 1000 Gal. 15% HCL, Spot CBP @ 5568' & Finish Spotting Acid at 8 BPM W/ 1450 PSI, Set CBP @ 5568', Psi up to 4500 PSI, P/U & Fire Gun #1 @ 5547'- 5548', 10 Shots, 6 SPF, 60 Degree Phasing,

22.7 Gram Charges, .42 EHD, P/U and Spot Gun #2 @ 5411'- 5412' & Inject 6 BBLs Acid, Fire Gun #2 @ 5411'- 5412', 8 Shots, 6 SPF, 60 Degree Phasing, 22.7 Gram Charge, .42 EHD, P/U & Fire Gun #3 @ 5275'-5276', 8 Shots, 6 SPF, 60 Degree Phasing, 22.7 Gram Charge, .42 EHD, P/U & Fire Gun #4 @ 5139'- 5140', 8 Shots, 60 Degree Phasing, 22.7 Gram Charges, .42 EHD, P/U & Fire Gun #5 @ 5003-5004', 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 #4, pumped 69,888 gals of Slickwater, 170,058 gals of 15# X-link fluid, 1,638 gal of treated water 4,000 gals of 15% HCL acid, w/ 18,958 lbs 100 mesh, 71,501 lbs 40/70 White, 98,415 lbs 20/40 White, & 47,051 lbs of 20/40 Garnet. Max psi: 5960 psi, Avg psi: 5219 psi, Max rate: 76 bpm, Avg rate: 65 bpm. Approx load to rec 5,829 bbls. ISIP: 1604 psi, 5 min: 1074 psi, 10 min: 958 psi. FG: .77. Surface csg @ 135 psi. SWI. TLTR:24,016

12:00 RDMO Renegade WL, Renegade Test Pump, Transwater, & ProPetro.

14:00 MIRU 1/2 pits, Renegade, Enersafe, & Spartan's Plug Catcher. Fill up 1/2 pits w/ FW. MIRU RedZone CTU & pump. ND 5 1/8" 10K WL Adapter. NU 5 1/8" 10K x 5 1/8" 15K spool & 5 1/8" 15K BOP. Function test Rams on BOP. PU 30' 5 1/8" 15 Lubricator. Pull test 2" connector to 30K. Fill CT Rell w/ 50 bbls. Psi test CT & connector to 3,000 psi.

16:30 PU/MU Cornell's BHA.

17:00 MU Lubricator & psi test Lubricator, BOP, & Manifold to 4500 psi. Bled off slowly to 1000 psi.

17:30 Open well @ 560 psi & Surface csg @ 0 psi. Bring pump to 1 BPM, circ psi @ 1130 psi, WH psi @ 560 psi. RIH w/ BHA on CT @ 110 ft/min to 4100', & got WT CK 10K. Slowed down to 40 ft/min & continue in hole @ 3.5 BPM in & out, circ psi @ 3800 psi, WH psi @ 560 psi.

18:30 Tag up plug # 1 @ 5568' w/ circ psi @ 3825 psi, WH psi @ 550 psi. Drill thru Plug # 1 in 14 min, WOB 2K, 3.5 BPM in & out. Pump 10 bbl sweep & continue to RIH.

19:30 Tag Plug # 2 @ 6248' w/ circ psi @ 4000 psi, WH psi @ 530 psi, 3.5 BPM in & out. Drill thru Plug # 2 in 15 min, WOB 3K. Had good returns @ plug catcher. Pump 10 bbl sweep & continue to RIH.

22:00 Tag Plug # 3 @ 6928' w/ circ psi @ 4000 psi, WH psi @ 520 psi, 3.5 BPM in & out. Drill thru Plug # 3 in 18 min, WOB 3K. Had good returns @ plug catcher. Pump 20 bbl sweep & continue to RIH.

23:00

Tag PBTD @ 7755' w/ circ psi @ 3900 psi, WH psi @ 600 psi, 3.5 BPM in & out. PU 10', pump 20 sweep, 10 bbl spacer, 20 bbl sweep, & circ while sweep makes it to the end of reel.

00:00 Sweeps got to end of reel & POOH 35 FPM w/ circ psi @ 4000 psi, WH psi @ 550 psi, 3.5 BPM in & out. Showing good returns @ plug catcher. Start pulling heavy @ 6400' WH psi dropped to 100 psi. Pump 20 bbl sweep, dropped fluid rate to 2.5 bpm,

started pumping nitrogen @ 1000 SCF/min. WH psi @ 30 psi circ psi @ 4600 psi. @ 6360' increase nitrogen to 2000 SCF/min and decrease fluid rate to 1.5 bpm. Continue to circulate well with nitrogen.

- 03:30 Good circulation @ 3:40, return rate @ 3bpm. Nitrogen @ 2000 SCF, water @ 1.5 bpm. WH psi @ 800 psi, circ psi @ 4600 psi. PUH @ 50 fpm, @ 5700' pump 20 bbl sweep to meet at EOC. Continue to POOH. @ 4200' nitrogen was shut off, increased fluid rate 3.5 bpm in & out. WH psi @ 1430 psi, circ psi @ 4590. Continue to POOH @ 110' FPM.
- 05:30 Disassemble Cornell's BHA.
RU N2 & blow down Reel.
RDMO RZ, Renegade, Enersafe, & Spartan's Plug Cather.

12/18/2014

Rig Name:

- 06:00 HPJSM w/ FB Crew. Discuss wind direction, Spot 4 H2S monitors (WH, manifold, pit, & FBT).
- 06:30 RU Spartan sand catcher & tie into FBT.
- 10:00 SICP @ 920 psi @ 10:00 hrs, bled off N2, open on 24/64 choke w/ FCP @ 520 psi.
- 10:30 WH psi @ 170 psi on 46/64 choke @ 18:00 hrs. Flowing 120 BPH, chlorides @ 7,111, H2S @ 85 ppm. Dumped 16 oz of sand every hr. TLTR: 24,016 bbls, TLR: 968, LLTR: 23,048, rec'd 4%.SWI

12/19/2014

Rig Name:

- 08:00 0 accidents,0 incidents,0 spills- HPJSM RD/Spartan flowback Iron,Clean out half pits

02/22/2015

Rig Name: AAA

- 07:30 HPJSM
- 08:00 SICP @ 97 psi. MIRU Davila's KT & Canary WH.
- 08:30 Pump 150 bbls of 10# Brine & kill well. Continue pump @ 1/4 BPM.
- 09:30 ND FS & NU BOP.
- 10:00 RDMO Davila's KT & Canary WH.
- 10:30 MIRU AAA WSU.
- 11:30 Rack & Tally 2 7/8" J-55 6.5# 8RD IPC tbg.
- 12:00 PU & RIH w/ 118 jts. SB 100 jts & leave 18 jts in hole for kill string. SWI & SDFN.

02/23/2015

Rig Name: AAA

- 07:30 HPJSM
- 08:00 POOH w/ 18 jts. PU & RIH w/ BP, 3 jts of 2 7/8" 6.5# J-55 8RD PC tbg, desander &

ESP Motor. LD Motor & desander. Remove BP & RBI w/ 10 jts for kill string. SWI & SDFN.

Note:SD due to high winds.(Winds 20 MPH w/ gust 0f 25 to 30 MPH out of the northeast.

02/25/2015

Rig Name: AAA

- 07:00 HPJSM - JSA REVIEW
- 07:30 CASING PRESSURE: 40 PSI - R/U LINE FROM CSG TO PITSS - PUMP 90 BBLs 10.1 #/GAL BRINE AND WELL GOES ON VACUUM - OPEN PIPE RAMS AND POOH 5 STANDS 2 7/8" TUBING - CONTINUE TO TRICKLE 10.1 #/GAL BRINE DOWN CASING
- 11:00 START RIH AND M/U ESP COMPONENTS - M/U MLE TO REDA MOTOR - BAND ESP WITH 1 MONEL BAND EVERY 4' AND BAND EACH STAND OF TUBING WITH 6 MONEL BANDS TO SURFACE - BULL PLUG: 0.45'/4099.90' - 3 JTS 2 7/8" 6.5# J-55 PC TUBING: 96.75'/4099.45', DESANDER: 4.70'/4002.70', SENSOR: 1.87'/3998.00', REDA MOTOR: 31.50'/3996.12', PROTECTOR: 8.00'/3964.62', INTAKE: 3.3'/3956.62', AGH: 6.3'/3953.32', D3500N PUMP #1: 22.00'/3947.02', D3500N PUMP #2: 22.00'/3925.02', BOH: 0.80'/3903.02', 1 JT 2 7/8" 6.5# J-55 IPC TUBING: 32.54'/3902, SEAT NIPPLE: 1.10'/3869.68', 118 JTS 2 7/8" 6.5# J-55 IPC TUBING: 3842.78'/3868.58', TUBING HANGER: 0.80'/25.80'
- 14:30 SPACE OUT - MAKE LOWER PIGTAIL SPLICE
- 16:00 LAND HANGER - R/D BOP - BUILD WELL HEAD - SCHLUMBERGER TECH WIRING DOWNHOLE CHOKE AND VSD
- 18:00 SCHLUMBERGER FINISHED WIRING DOWNHOLE CHOKE AND VSD
- 21:30 PIP: 1856 PSI - CHECK ROTATION - FLUID TO SURFACE IN 5 MINUTES - START UP AT 45 Hz WITH 250 TUBING PRESSURE ON OPEN CHOKE - MOTOR TEMP NOT READING - SHUT DOWN VSD - WILL START UP ON 2/25/2015

05/14/2015

Rig Name: AAA

- 07:00 HPJSM
- 07:30 MIRU ARIES WSU #64
- 09:30 R/D WELLHEAD AND R/U BOP
- 10:00 POOH AND LAY DOWN ESP COMPLETION: TBG HANGER AND 1 JT 2 7/8" TBG, 118 JTS 2 7/8" TBG, ESP COMPONENTS (BOH, 2 PUMPS, AGH, INTAKE, PROTECTOR, MOTOR, SENSOR), DESANDER, 3 JTS 2 7/8" MUD JOINTS W/BULL PLUG.
- 15:30 REMOVE REDA RAMS AND REPLACE WITH 2 7/8" PIPE RAMS IN BOP - RIH WITH 153 JTS 2 7/8" IPC TBG WITH BIP AND SCRAPER - POOH WITH 70 STANDS TUBING - LEAVE 12 JTS TBG IN HOLE AS KILL STRING - M/U AND CLOSE TIW VALVE, CLOSE PIPE RAMS AND SECURE WELL FOR NIGHT

05/15/2015

Rig Name: AAA

07:00 HJPSM

07:30 POOH 11 JTS 2 7/8" PC TUBING - CHANGE OUT RAMS IN BOP -

08:00 SCHLUMBERGER TECH INVENTORY BHA EQUIPMENT AND PERFORM PRE-CHECK ON EQUIP

09:00 RIH WITH ESP COMPLETION: SENSOR: 1.87'/4780.05', MOTOR, 25.10'/4778.18', PROTECTOR: 8'/4753.08', INTAKE: 3.3'/4745.08', AGH: 6.3'/4741.78', PUMP: 22'/4735.48', PUMP: 22'/4713.48', BOH: .8'/4691.48', 1 JT 2 7/8" 6.5# J-55 IPC TBG SUB: 6'/4690.68', SEAT NIPPLE: 1.10'/4684.68', 142 JTS 2 7/8" 6.5# J-55 IPC TBG: 4621.35'/4683.58', 2 7/8" 6.5# J-55 TBG SUB: 4'/62.23', 2 7/8" 6.5# J-55 IPC TBG: 32.43'/58.23', .8'/35.8' - USED 2 MONEL BANDS AT POT HEAD, USED 2 MONEL BANDS AT THE BOTTOM ABOVE LOCK PLATE AND TWO MONEL BANDS AT THE TOP BELOW THE LOCK PLATE OF OF THE PROTECTOR, PUMP 1, AND PUMP 2 - USE 2 MONEL BANDS AND A CABLE PROTECTOR ON EACH COLLAR FOR 28 JTS - USE 3 MONEL BANDS ON EACH JT OF TUBING ABOVE CABLE PROTECTORS - TOTAL OF 416 MONEL BANDS USED

16:00 SPACE OUT AND MAKE LOWER PIGTAIL SPLICE

18:00 LAND HANGER, R/D BOP, R/U WELLHEAD, FLOW LINES, AND CHEMICAL LINES -

19:00 INTAKE PRESSURE: 910 - CHECK ROTATION AT 53 HZ AND INCREASE TO 56 HZ - SET TBG PRESSURE AT 200 PSI - TURN WELL OVER TO BATTERY