

9/23/2015

MIRU. R/U tools. POOH w/30 of 7/8" rods-left box in hole. Rod top @650ft.
N/D wellhead, N/U BOP's & pressure test flange. R/U floor & 2-7/8" handling equipment. SWIFN.

9/24/2015

POOH, laying down 2-7/8" production tbg to rod top at 750'.

Change tbg handling equipment for rod equipment. Unseat pump (no overpull) & POOH laying down rods. Laid down pump-clean.

Change out rod handling equipment for tbg equipment, lay down production string. Sent for inspection, failed to number the joints. P/U & RIH w/ RBP on 2-7/8" workstring. RIH to 2095' & set plug.

Pressure test csg to 3000psi. Wellhead leaking below tbg head in threaded connection to 7" csg. Bled off pressure. Pressured up while monitoring wellhead, noted connection started leaking @800psi. No communication to surface csg. Bled off pressure. SWIFN.

9/25/2015

Weld threaded connection on top of 7" stub to flow cross/tbg hanger. Pressure test w/hanger landed, leaking past hanger. Shut in rams & test to 2400psi - no leak off. Pulled hanger - rubber O rings damaged from heat due to welding.

RIH & release RBP. Let well equalize & POOH w/ workstring.

R/U wireline unit. P/U & RIH w/ 20ft 3-1/8" perforating gun. RIH w/ 3.6" gauge ring to 2215', did not tag anything solid. Concluded due to deviation from 1400' down. P/U w/ 3-1/8" guns & perforate 2314' - 2354', 2298' - 2308', 2267' - 2297', 2239' - 2259' charges 0.73"90 deg phasing 3spf in 6 runs. Wellbore stayed constant pressure at 180psi until after firing last gun 2239' - 2259': increased to 220psi. After firing gun, RIH w/spent cartridge & tag fill @2360'. R/D wireline.

RIH w/ floated 4-3/4" bit on 2-7/8" workstring to 2095'. SWIFN.

9/26/2015

RIH from 2095' to 2363' & tag fill. Break circulation w/ foam unit 200psi, 2 gal/20bbl foamer, corrosion inhibitor, 1 scoop oxygen scavenger per tub. Clean out to PBSD (2372'). Slight coal fines in returns. Circulated clean. Shut in returns while continuing to pump, built csg pressure from 0psi to 160psi & stabilized. Open returns & pump sweeps, no influx. Surging well, stabilized csg pressure, decreased on each successive surge down to 70psi. No influx. Cut foam, blow dry.

POOH laying down workstring, install hanger w/ 2-way check.

R/D floor, N/D BOP's. N/U 5k frac tree, 2-1/16" dual wing valves flow cross. Pressure test to 4000psi - record chart, good test. Bled off pressure, remove hanger/2-way check. SWI.

Rig down pump & lines. equipment to adjacent location. Start hauling fresh water to location, filling tanks.

9/27/2015

Spot in mountain mover w/ dust control unit. Start hauling sand.

9/28/2015

Spot in gel pro, stinger. Check well pressure: SICP 250psi. R/U stinger to wellhead.

Haul sand and offload 242,000 lbs 20/40 Premium white to mover. Spot in iron truck, missile, blender, chemical truck and pumps.

9/29/2015

Pump frac as designed, w/ 20/40 Brown, ramping sand stages fr/ 1# - 8#, perms fr/ 2130' to 2354'.

Initial Breakdown: 39.3 BPM @ 558#'s.

Max Rate: 50.5 BPM.

Max PSI: 725#'s.

Average Rate: 40.1 BPM.

Average PSI: 492#'s.

Initial Braden PSI: 0

Max Braden PSI: 0

Final Frac Gradient: 0.720

ISDP: 604#'s

5 Min: 460#'s

10 Min: 394#s

15 Min: 331#s

Total clean fluid pumped: 428 bbl's

Total dirty fluid pumped: 2,335 bbl's

Total clean & dirty: 2,763 bbl's

Total Proppant pumped: 241,460#'s

9/30/2015

SIWP - 235#'s, monitor PSI to see any changes, none.

Open well on a 20/64" choke thru FMC equip, check returns over blow down tank, straight gas, no fluid in returns.

Switch well to quad pak & to flare. Well died off after 1.5 hr's. SWI for build up & monitor same.

Contact W/O Engineer, decision to SWI, RD flow testers. R/D FMC flow back, prep to MOL AM. Empty, demob frac tanks. SDFN.

10/1/2015

MI, spot & RU AESC rig 8 & aux equip. Demob FMC flow back equip. MI & spot High Tech's air/foam unit

SIWP - 270#'s. Bleed well down. ND 7 1/16" 5K crown valve, flow cross. Set tbg hanger w/2 way check. ND lower 7 1/16" 5K valve. NU 7

1/16" 3K BOPE. RU tbg equip. Test BOP pipe rams & the break @ 250 low & 1800#'s high, good test.

PU & RIH w/ 4 3/4" rock bit, bit sub & 72 Jt's 2 7/8" WS. Tag solid sand fill top in 5 1/2" liner @ 2275', top perf @ 2130', bott perf @ 2354'.

LD 6 Jt's WS, EOT @ 2109'.

10/2/2015

SIWP - 270#'s. Pump tbg w/ 5 bbl's 2% KCL. Install tbg string float. RU High Tech air/foam unit & break circ w/ same, good returns.

RIH to 2261'. PU power swivel. Clean out frac sand fr/ 2275' to PBSD @ 2372", OK. Circ clean.

Air/foam rate @ 900 SCF min w/ 3.5 GPM water w/ adds.

Alternate between flowing well & circ w/ air unit, checking for solids in returns. No sand or coal fines noted.

Total fluid introduced w/ air unit, 30 bbl's, total fluid recovered 170 bbl's. ND swivel, pull EOT to 2100'.

10/3/2015

Short trip bit f/ 2100' to PBSD @ 2372', no fill up overnight. POOH LD WS to 1220', cont POOH w/ & LD 4 3/4" bit & bit sub.

PU & RIH w/ Baker 7" Hornet RBP. Set plug # 1 @ 1221', OK. Fill (45 bbl's) & test csg & plug @ 500#'s, good test. LD 3 Jt's WS. Install

7" Hornet RBP # 2 in string. RIH & set same 1 Jt down fr/ BOP, OK. LD top Jt & Ret-Head.

RD work floor, ND 7 1/16" 3K BOPE. NU 7 1/16" 3K X 7 1/16" 3K Tbg Rotator Head. NU & 1/16" BOPE. Test BOPE connections, blind rams & csg @ 500#'s, good test.

PU, RIH w/Ret-Head, release RBP # 2, POOH, LD. RIH 3 Jt's, engage, release RBP # 1 @ 1221', well on an vac, then blow. Flow down.

POOH LD 2 7/8" WS, 7" RBP. PU, RIH w/ 2 7/8" mud anchor assem, 2 7/8" new boronized/bare prod tbg assem to 2340'.

NU 7 1/16" tbg rotation hanger & land tbg on same, EOT @ 2349', PSN @ 2309'. Engage hold down pins.

RD work floor, ND 7 1/16" BOPE. NU 7 1/16" 3K X 2 7/8" top flange, radigon, flow cross. Install shut in valve.

10/4/2015

PU, RIH w/rebuilt 2 1/2 X 2" X 18' RWAC-Z rod pump w/dip tube, stabilizer bar, 8 - 1 1/2" sinker bars, 51 - 3/4" guided rods & 31 - 7/8" guided rods. Tag & space rod string out w/ 20' 7/8" pony rods. PU 1 1/2" X 26' polish rod. Fill tbg, verify pump up, OK. Test tbg @ 500#'s good test. Hang rod string w/ polish rod clamps.

RD rod equip, re-assem csg valves to flow arm. RDMO.