

6/18/15

CONVERT TO SWD

While dirt contractors were finishing location prep, We ND 11" 5K x 7 1/16" 10K tubinghead and NU 11" 5K x 7 1/16" 5K tubinghead. Test flange and seals to 5000 psi. Test good. NU 7 1/16" 3K manual BOP. Spot reverse pump, reverse pit and 2 - 500 bbl. frac tanks for fluid storage. Set catwalk and pipe racks. Unload, rack, collar and tally 177 jts 2 3/8" 4.7# L80 8rd tbq recieved from Master Tubular. Secure well w/ blind rams closed and all tubinghead valves closed. SDFN.

DC \$26,117

CC \$26,117

(Bill Arnett)

6/19/15

CONVERT TO SWD

12 hr SICP = 0 psi. Held Safety Meeting on Hazards of Tripping Tubing and Pumping Cement. Pressure Test Blinds to 500 psi. Held Pressure. Open Blind Rams. RIH w/ Muleshoe Tubing Sub and 173 Jts 2-3/8" L-80 Tubing. EOT (Muleshoe) @ 5,700' on 173 Jts 2-3/8" L-80 Tubing and 1 - (8') - 2-3/8" Tubing Sub. RU Annulus to frac tank to catch returns. Pump down tubing to Load and Circulate Well. Pumping 3-1/2 BPM @ 750 psi. Circulate Hole clean. Pumped down tubing to displace Water w/ 150 BTFW. (Tbg cap. 22 Bbl. & Annulus cap. 102 Bbl.). Total Circulation = 124 bbls. Pressure Test 2-3/8" Pipe Rams to 500 psi. Held Pressure. MIRU Basic Cement Company. Test lines to 1,000 psi. Held Ok. Pumped 6 BFW down tbq at 2 BPM, mix Cement and pump 2 BPM @ 300 psi of 50 sxs Class C neat (11-3/4 bbls), 14.8 ppg cement, flushed w/ 19-1/2 BFW @ 2 BPM @ 90 psi and left 2 bbls cement in tbq. Spot Balanced Cement Plug from 5,158' to 5,700' w/ tubing in well. EOT (Muleshoe) @ 5,700'. RD Pump Lines. PUH 31 Jts 2-3/8" L-80 Tubing. EOT (Muleshoe) @ 4,675' on 142 Jts 2-3/8" Tubing. **Balanced 505' Cement Plug Spot in Casing after POOH w/ Tubing at 5,195' to 5,700'.** Close 2-3/8" Pipe Rams. Basic Cement Pump washed up Tubs, Pump and Lines. RD Basic Cement Company. RU Reverse Unit Kill Lines to Casing. RU Tubing to Dirt Pit to catch returns. Pump 35 bbls down Annulus to Reverse Circulate Tubing Clean. Pumping 2-1/2 BPM @ 500 psi. Circulate Tubing clean. (Tbg cap. 18 Bbl.) Close TIW Valve. Pressure Test Annulus to 500 psi. Held Pressure. Close all Casing Valve. Secure Well. SDFWE.

DC \$41,200

CC \$67,317

(Bill Arnett)

6/22/15

CONVERT TO SWD

HTGSM - Laying down tbq. Csnq press. - 0 psi. Open well up. TIH w/ XX jts 2 3/8" 4.7# L80 8rd tbq. Tag hard cement @ 5129'.POOH w/ 2 jts 2 3/8" 4.7# L80 8rd tbq. to a depth of 5065'. RU reverse pump and reverse tbq clean w/ 30 bls. fresh water.RD reverse pump. POOH laying down 46 jts 2 3/8" 4.7# L80 8rd tbq. With 110 jts in the hole & 67 jts out muleshoe depth of 3623'. Blend 165 gal. ICW - 190 corrosion inhibitor into 320 bls.fresh water for packer fluid. RU reverse pump and load csng w/ 84 bls. packer fluid. POOH laying down 110 jts 2 3/8" 4.7# L80 8rd tbq. LD 2 3/8" muleshoe guide sub.Weatherford tools brought to location were 3.750" OD smooth sided spiral stabilizers instead of 3.900 OD string mills w/ cutrite blades. Close pipe rams and secure well w/ all vlvs closed. SDFN

DC \$10,628

CC \$77,945

(Jon Willson)

6/23/15

CONVERT TO SWD

HTGSM - Picking up sharp downhole tools. Csnq press - 0 psi. Open well up. PU 2 3/8" muleshoe guide sub, XO, 2 3/8" x 3.900" spiral mill w/ cutrite blades, 2 3/8" x 3.900" straight blade mill w/ cutrite blades and XO on 1 jt 2 3/8" 4.7# L80 tbq. RIH w/ 16 jts 2 3/8" 4.7# L80 tbq. Half way in on jt # 16, started turning tbq string w/ rig tongs. Slowly rotate jts 16 & 17 thru csng patch. Once below the patch we stroked the mills thru the csng patch several times. RIH w/ jts 18 & 19. POOH laying down 19 jts 2 3/8" 4.7# L80 tbq. LD XO, straight blade mill, spiral mill, XO and muleshoe guide sub. Load csng w/ packer fluid. Close blind rams. RU AAA Testers to run a pre H-5 test. Apply 500 psi to csng and chart for 30 minutes. Test was good. Bleed off pres & RD AAA Testers. RU Schlumberger to perforate. NU 7 1/16" x 3K packoff. Hold safety meeting w/ all hands - No cell phones & stay out of

Trinity

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the danger zone. RIH w/ dummy-run tool consisting of CCI & 3 1/8" x 20' gun unloaded. Ease thru patch down and back w/ no interference. Make 4 gun runs (3x20' & 1x10') w/ CCL and 3 1/8" guns loaded w/ 19 gr Titan EXP 3319-322T charges (0.40" holes, 38.87" penetration) 4 spf, 90* phasing. Perforate San Andres interval from 3530' to 3600' w/ 280 holes using Schlumberger USIT dated March 28, 2012 for depth control. LD perf guns w/ all charges fired. Close blind rams and secure well w/ all vlvs closed. Leave WI truck rigged up for fluid level run Wed. morn. SDFN

DC \$9,980 CC \$87,925 (Jon Willson)

6/24/15

CONVERT TO SWD

HTGSM - Picking up tbg. Csg - 0 psi. Well static. Open well up. PU 3 1/2" gauge ring and RIH on Schlumberger WI. Establish 4x times top of fluid @ 35' below ground level. RD Schlumberger WI. Move work string to side of location. Unload, rack, collar and tally 108jts 2 7/8" 6.5# J55 8rd IPC tbg. PU Inflatable Packer Assm. consisting of 2 3/8" ball-drop pump out plug w/ WI reentry guide, Weatherford Single-set RR IPP Inflatable Pkr, (nickel coated flow areas) , T-2 on/off tool and seal nipple w/ 1.87" F-nipple (nickel coated ID) 2 3/8" x 2 7/8" XO (IPC) 2 7/8" x 4' J55 sub (nickel coated). PU 104 jts 2 7/8" 6.5# J55 8rd IPC tbg & RIH w/ IPC tbg Tech supervising stabbing and make-up. ND 7 1/16" 3K manual BOP. NU 7 1/16" 5K tbg hanger flange. Set Weatherford Inflatable pkr per Weatherford Tech direction. Install tbg slips and seal assembly. RU AAA Testers to run RRC H5 test. After 4 attempts at an H5 test w/ surface leaks, the RRC Rep left location while we continued to work at getting a test. Made no progress. Will change out R-46 ring gasket Thurs. AM and try again. Close TIW vlv. Secure well w/ all wellhead vlvs closed. SDFN

DC \$42,840 CC \$130,765 (Jon Willson)

6/25/15

CONVERT TO SWD

HTGSM - Rigging down. ND 7 1/16" 5K x 2 7/8" slip flange, replace R46 ring gasket and NU. Press csng to 480 psi and chart for 30 minutes. Press leaked off to 460 psi in 30 min. Had no visible surface leaks. Bleed press off. Press tbg to 300 psi. and monitor. Repressure csng to 560 psi and chart for 20 minutes. Tbg press lost to 150 psi while csng lost to 525 psi for a lose of 35 psi. Bleed press off. Remove TIW vlv and install 2 7/8" 8rd injection master vlv. RD WSU and prepare to move to the University NG 6024NB. MT's # 13-3488 & 13-3489 done and turned in.

DC \$7,244 CC \$138,009 (Bill Arnett)

7/2/15

CONVERT TO SWD

Perform Texas RRC H-5 Test. RU AAA Tubing Tester. Start Pressure Test @ 2:00 pm. Thursday, July 2, 2015. Frank White with AAA Tubing Tester. Pressured Annulus to 500 psi and Charted Pressure for 45 minutes until 2:45 pm. Released Pressure. No Texas RRC or University Lands Representatives Present for Test. Pressure Test Successful. RD AAA Tubing Tester. Filled out Required H-5 Form and Sent all required paperwork to the RRC Office and University Lands Office. Pressure Test Witnessed by Bill Arnett Workover Forman and Frank White with AAA Tubing Tester.

	Tubing Detail		
Joints	Description (top to bottom)	Footage	Depth
	KB Correction	9	9
104	2 7/8" 6.5# J55 8rd IPC tbg.	3,432	3,441
1	2 7/8" x 4' nickel coated tbg sub	4	3,445

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1	2 7/8" x 2 3/8" XO IPC	1	3,446
1	T2 on/off tool w/ 1.87" F-nip nickel ctd ID	2	3,448
1	Weatherford RR IPP Infl. Pkr nickel ctd	7	3,455
1	2 3/8" ball-drop pmp-out plug w/WI regd	1	3,456

DC \$4,440

CC \$142,409

(Bill Arnett)

7/6/15

CONVERT TO SWD

MIRU Precision Pressure Data. RIH w/ Punch on Slickline. Tag Top of Plug @ 3,444'. Punch hole in Blanking Plug. POOH. Wait on Pressure to Equalize. RIH with Pulling Tools on Slickline. Tag top of Plug @ 3,444'. Latch on to Blanking Plug. Work to Unseat Blanking Plug from 1.87" 'F' Profile Nipple. POOH. RDMO Precision Pressure Data. MIRU ProPetro Frac Pump Truck and Trey Water Transport. Tubing Standing Full and Loaded Immediately. Pressured Tubing in 500 psi Increments. Perforations from 3,530' to 3,600' Broke down at 2,000 psi Tubing Pressure. Start Pumping into Perforations. Increase Rate and Pressure until Pressure Reached 1,500 psi @ 3 bpm. Shutdown Pumping. Started Pumping again @ 1 bpm Pumped 11 bbls @ 775 psi. Increased Rate to 2 bpm Pumped 11 bbls @ 1,000 psi. Increase Rate to 3 bpm Pumped 11 bbls @ 1,500 psi. Shutdown Pumping. ISIP = 0 psi. RD ProPetro Frac Pump.

DC \$6,500

CC \$148,909

(Bill Arnett)

7/9/15

CONVERT TO SWD

SITP = 0 psi and SICP = 0 psi. Held Safety Meeting on Acidizing Perforations. Tubing and Packer Configuration in Well as Follows: 104 Jts 2-7/8" 1505 IPC, L-80 Tubing (EOT) @ 3,456'. Packer Set (Center of Elements) @ 3,451' and (Bottom of Reentry Guide @ 3,456'. Perforations from 3,530' to 3,600'. RU ProPetro Pump Lines. Confirm 15% DINEFE HCL Acid delivered is Acid Recommended and Ordered with Correct Additives. **Test 15% DINEFE HCL Acid: Ph=0.0, Sg = 1.065, DINEFE HCL Acid Titrates 16%.** Pressure Test Annulus to 200 psi. Held Pressure. Held Pressure on Annulus through out Acid Pump away. Pressure Test Surface Lines to 4,000 psi. Held Pressure. Bleed off Pressure. Open Well up. Start Pumping to Load Well. Load Tubing Immediately. Pressure up to 1,100 psi Pumping 4 bpm. Establish Rate at 4 bpm @ 1,038 psi. Pumped 3-1/2 BTFW. Switch to Acid. Pump 7,000 gallons (167 bbls) 15% DINEFE HCL Acid @ 4 bpm @ 900 psi. Pump 7 bbls Acid and Started Dropping 7/8", 1.3 Sg Low Temp Bio Ball Sealers. Dropped Total of 310 7/8", 1.3 Sg Low Temp Bio Ball Sealers. Pumping 4 bbls Acid (1st 18 sets) then 3 bbls Acid before every Cluster of 7 Ball Sealers Dropped. Switch to Flush. Pump 24 BTFW to Flush and 76 Over flush Acid into Perforations. Pressure dropped from 1,038 psi to 750 psi while Pumping Acid to Perforations. Pumping Same Rate 4 bpm Saw Slight Pressure increase When All Ball Sealers on Perforations from 750 psi to 850 psi and While Pumping Acid before All Ball Sealers on Perforations Saw Pressure Dropped 300 psi while pumping the 167 bbls Acid. Displaced Acid to Bottom Perforation plus 76 bbls Over flush with Total of 100 BTFW @ 4 BPM @ 850 psi. Finish Pumping Flush and Over Flush and Shutdown Pumping. ISIP = 661 psi. Surge Well to Surge Ball Sealers off of Perforations. Pressure = 550 psi after Surging. Monitor 5/10/15 Pressures. 5 Min = 532 psi. 10 Min = 520 psi. 15 Min = 515 psi. Surge Well again to Remove Ball Sealers from Perforations. Final Shut-in Tubing Pressure = 446 psi. Final Annulus Pressure = 380 psi. Bleed off Annulus to 0 psi. RD ProPetro Acid pumping Equipment. **FINAL REPORT**

DC \$13,943

CC \$162,852

(Bill Arnett)