

WTG Exploration
TASS # 6
Workover

Date

01-13-09 MI and spot WTG Services Unit 01.

Daily Costs \$ 2,000

Cum. Costs \$ 2,000

01-14-08 Rack 11,400'+ of 2 7/8" N-80 tubing, RU WTG Services Unit 01. Pulled 82-1" rods, 95-7/8" rods, 18- 3/4" rods & SDFD.

Daily Cost \$ 5,000

Cum Cost \$ 7,000

01-15-08 Continue out of hole with a total of 194-3/4" rods & 15-1" rods on top of pump. Unset TAC, ND wellhead & NU BOP. RU swab making 8 runs recovering 50.4 bbls of water with IFL @ surface & EFL @ 2,000'. SWI & SDFD.

Daily Cost \$ 5,000

Cum Cost \$ 12,000

01-16-08 SITP = 0 psig, SICP = 0 psig, IFL = surface. Made 8 swab runs recovering 50.6 bbls of water with EFL @ 1,400'. RU pump truck on tubing & circulated hole with 250 bbls of 2% KCL water (with full circulation). Circulated all water, RD pump truck & started out of hole with 2 7/8" tubing. Pulled 159 jts (approx 5,000'), SWI & SDFD.

Daily Cost \$ 6,000

Cum Cost \$ 18,000

01-17-08 SITP = 0 psig, SICP = 0 psig. Continued out of the hole with 2 7/8" tubing, pulled a total of 317 joints (approx 10,000') SWI & SDFWE.

Daily Cost \$ 3,000

Cum Cost \$ 21,000

01-18-09 SDFWE.

01-19-09 SDFWE.

01-20-09 SITP = 0 psig, SICP = 0 psig. RU JW wireline & RIH with gauge ring, could only get to 9,726'. PU CIBP (correlated to logs dated 12-30-55) & set @ 9,724' TOOH attempted to test casing to 500 psig with no success. PU dump bailer & cap CIBP with 20' of cement, will run tools in hole in the morning to hunt a hole. SWI & SDFD.

Daily Cost \$ 13,000

Cum Cost \$ 34,000

01-21-09 SITP = 0 psig, SICP = 0 psig. PU RBP, PKR & TIH to 5,682'. Set RBP pulled to 5,650' & tested plug to 500 psig (good). Pulled 1 joint at a time testing good (500 psig) up to 5,518'. Set PKR at 5,293' and backside held good (hole is 225'), established injection rate of 1.5 bpm @ 950 psig & unset PKR. TIH, unset RBP, set PKR & tested casing

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to 500 psig (ok), unset PKR & TOH finding no RBP. Started back in hole to 8,050' & SWI & SDFD.

Daily Cost \$ 8,000

Cum Cost \$ 42,000

01-22-09 SITP = 0 psig, SICP = 0 psig. Continue in hole to 8,250', latch onto RDP & reset. Unset RBP, TOH & LD tool. PU cement retainer, TIH to 5,290', RU Rising Star Services & pump tubing volume (32 bbls). Set retainer, test backside to 500 psig. (ok), establish injection rate of 1.5 bpm @ 950 psig. Pump 100 sks lead class "C" 2% Gel, 2# salt, ¼% R-38, 1.67 yield @ 13.70 ppg. 75 sks "C" 2% CaCl, ¼% R-38, 1.32 yield @ 14.80 ppg. Displace with 30 bbls fresh water catching pressure in 20 bbls. Pump @ a rate of .8 bpm with 1,000 psig (total 30 bbls) shut down holding 800 psig. Stung out of retainer & reversed 59 bbls fresh water & 3 bbls cement to pit, RD Rising Star. TOH with tubing & stinger. SWI & SDFD.

Daily Cost \$ 12,500

Cum Cost \$ 54,500

01-23-09 SITP = 0 psig, SICP = 0 psig. PU 4 ¾" bit, 6-4 ¼" collars, TIH to 5,250' & tag cement. Drill cement & retainer to 5,311' with good circulation. Pull 1 joint, circulate clean & SWI & SDFD.

Daily Cost \$ 7,000

Cum Cost \$ 61,500

01-24-09 SITP = 0 psig, SICP = 0 psig. Continued drilling from 5,311' to 5,510' where bit fell, continue in hole to 5,540' & circulated clean. Tested casing to 500 psig losing 150 psi every 5 min (lost 20 bbls of fluid from 5,311'- 5,510'). Pulled 10 stands & SWI & SDFWE.

Daily Cost \$ 7,000

Cum Cost \$68,500

01-25-08 SDFWE.

01-26-08 SDFWE.

01-27-08 SITP = 0 psig, SICP = 0 psig. Continue out of hole, LD Bit & stand back collars. TIH open ended to 5,422', RU Rising star Services & broke circulation with fresh water. Spotted 50 sks of "C" 2% CaCl & TOH (top of cement should be @ 4,947'). Loaded casing with 10 bbls of fresh water & SWI & SDFD.

Daily Cost & 9,500

Cum Cost \$ 78,000

01-28-09 SDF bad weather

01-29-08 SICP = 0 psig. PU 4 ¾" bit, 6-4 ¼" DC's TIH & tag cement @ 4,997'. Broke circulation & drilled to 5,215' with good circulation, circulated clean & SDFD.

Daily Cost \$ 6,500

Cum Cost \$ 84,500

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01-30-09 Broke circulation & continued drilling to 5,247', tested casing to 500 psig. (lost 170 psi in 10 min.). Continued drilling to 5,435' where bit fell out of cement, tested casing to 500 psig. (lost 200 psi in 10 min). TOH, set back collars & PU 5 ½" PKR. TIH to 5,280' & set PKR tested backside to 500 psig. (lost 200 psi in 7 min.), pulled PKR to 5,248' & set. Backside held good, TIH to 5,603 & set, tested casing to 500 psig (good), 5,538" (good), 5,474' (good), 5,409' (good), 5,342' (lost 250 psig in 5 min). TIH with PKR to 5,374', tested to 500 psig (held good), hole is from 5,248'-5,374' (126'). Left PKR swinging & SWI & SDFD.

Daily Cost \$ 8,000

cum Cost \$ 92,500

01-31-09 Pull PKR to 5,190' & set. Pumped down tubing established an injection rate of 1 BPM @ 1,300 psig. Unset PKR & TOH. PU cement retainer & TIH to 5,190', RU Rising Star Services. Pump tubing capacity through retainer & set. Pumped 50 SKS of "C" 2% gel, 2% CaCl₂, ¼% R-38 @ 13.2 PPG lead & 50 SKS of "C" 2% CaCl₂ ¼% R-38c @ 14.0 PPG. Pumped 26.5 barrels of displacement @ 1,100 psig & shut down to wash up pump. Pumped ½ barrel @ .2 bpm @ 1,100 psig & shut down for 10 min to stage. Pumped 1/10 of a barrel & locked up @ 1,300 psig, stung out of retainer & could not reverse out. TOH with tubing found 16 jts of tubing cemented up, SWI & SDFWE.

Daily Cost \$ 12,000

Cum Cost \$104,500

02-01-09 SDFWE

02-02-09 SDFWE

02-03-09 SICP = 0 psig, PU 4 ¾" bit, 6-4 ¼" collars, 2 7/8" tubing & TIH. Tag retainer @ 5,203', drilled retainer & cement to 5,247'.

Circulated hole clean & tested casing to 500 psig. (held good for 10 min.) SWI & SDFD.

Daily Cost \$ 7,000

Cum Cost \$111,500

02-04-09 Continued drilling cement from 5,247' testing casing to 5,520' & fell out. Circulated clean & tested casing (pressured up to 500 psig & lost 200 psi in 10 min). Note: If there is a leak it is between 5470' & 5520'. Pulled bit above hole & SWI & SDFD.

Daily Cost \$ 7,000

Cum Cost \$ 118,500

02-05-09 TIH to 9,716' & tag top of plug, circulated hole with 2% KCL water. TOH & LD collars, RU J-W Wireline, correlate to GR-Neutron log

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dated 12-30-55. Perforate Devonian from 7,990'-8,032' with 1 shot per foot (42 shots) RD wireline & SDFD.

Daily Cost \$ 10,000

Cum Cost \$ 128,500

02-06-09 SICP = 100 psig, IFL = Surface. PU 5 ½" PKR, TIH to 8,032 & RU Rising Star Services. Broke circulation, spot 500 gal of 7 ½% HCl acid & pulled packer to 7,903'. Reversed acid into tubing, set PKR & started water to breakdown. Well took fluid & 2,290 psi (0.2 bpm) increase rate to 1.5 bpm (3,000 psig), pumped 3,000 gal of 7 ½% HCl dropping 3 ball sealers every 3 barrels (60 total) with good ball action. ISIP = 2,560 psig, 5 min = 2,200 psig, 10 min = 2,060 psig, 15 min = 1960 psig, max rate = 2.6 bpm, avg rate = 1.0 bpm, min rate = .2 bpm, max pressure = 3,660 psig, avg pressure = 3,000 psig & min. pressure = 500 psig (Fluid to recover = 176 bbls). RU Swab & made 7 runs with fluid level @ 2,800' (last run 5% oil cut). SWI & SDFD

Daily Cost \$ 12,000

Cum Cost \$140,500

02-07-09 SITP = 900 psig. Opened well and flowed gas and 100% oil. Well died after 1 hr of flowing oil & gas, RU swab with FL @ 3,700'. Made 7 runs swabbing well dry, waited 1 hr between runs pulling from SN. Made 3 more runs with FL spotty, will evaluate Monday for more acid. SWI & SDFWE.

Daily Cost \$ 4,000

Cum Cost \$ 144,500

02-08-09 SDFWE

02-09-09 SDFWE

02-10-09 Opened well on a 20/64 choke flowing gas and a mist of oil. Well flowed for 3 hrs, made 2 swab runs and swabbed well to SN. SDFD.

Daily Cost \$ 3,000

Cum Cost \$ 147,500

02-11-09 Flowed well back (open) on 80 psig. RU Rising Star Services, load backside (2.5 bbls) & RU on tubing. Acidized with 5,000 gal of 20% HCl acid and flush with 2 % KCl water with friction reducer. ISIP = 1,210 psig, 5 min=1120 psig, 10 min=1080 psig, 15 min=1040 psig, max rate=5.1 bpm, avg rate 4.25 bpm, max pressure=3,100 psig, avg pressure = 2,530 psig (LWTR 288 bbls). Shut well in for 1 hr, opened well and flowed down. RU swab, made 4 runs with show of gas & 70 bbls of LW. SWI & SDFD.

Daily Cost \$ 16,000

Cum Cost \$163,500

02-12-09 Opened well and flowed down with gas and a mist of oil.

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Daily Cost \$ 6,000

Cum Cost \$ 169,500

02-13-09 SITP = 85 psig, opened well to test tank on a 20/64" choke for 1 hr making gas and mist. Opened choke to 32/64" & died. SWI & RU swab, and recovered 90% water & 10 % oil. SWI, RD WTG Services & move out. Dress old battery location & set (2) 436 bbl oil tanks, 4 X 20 heater treater & 1 open top water tank.

Daily Cost \$ 54,000

Cum Cost \$ 223,500

02-14-09 Continue building battery.

Daily Cost \$ 5,000

Cum Cost \$ 228,500

02-15-09 SDFWE

02-16-09 SDFWE

02-17-09 Continue building battery. Contacted DCP for meter run.

Daily Cost \$ 4,000

Cum Cost \$ 232,500

02-18-09 Continue building battery.

Daily Costs \$ 5,000

Cum Cost \$ 237,500

02-19-09 Continue building battery & start new flowline.

Daily Cost \$ 15,000

Cum Cost \$ 252,500

02-20-08 Continue building battery & flow line.

Daily Cost \$ 5,000

Cum Cost \$257,500

02-21-09 Finish building battery & flow line. Will start building fence around battery on Monday.

Daily Cost \$ 5,000

Cum Cost \$ 252,500

02-22-09 SDFWE

02-23-09 SDFWE

02-24-09 SITP = 75 psig. Open well to battery on 9/64" positive choke @ 10:30 AM. At 2:00 PM well was flwg with 50 psig, filling heater treater.

Daily Cost \$ 3,000

Cum Cost \$ 255,500

02-25-09 Still flowing in heads. Finished fence around battery, caught gas sample from wellhead. SWI. DCP has turbine problems and is accelerating a planned turn-around of the turbine and plant.

Daily Cost \$ 3,000

Cum Cost \$ 258,500

02-26-09 Waiting on gas connection.

02-27-09 Waiting on gas connection.

02-28-09 Waiting on gas connection.

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03-01-09 Waiting on gas connection. Drop from report until further activity.

03-11-09 Well still shut in due to plant problems.

03-17-09 Opened well to sales. DCP plant back on line.

03-18-09 Well made 41 BO, 0 BW, 153 MCF on choke @ 70 psig. DCP will change orifice plate today.

03-19-09 Well made 37 BO, 21 BW, 158 MCF on choke @ 70 psig.

03-20-09 Well made 35 BO, 18 BW, 161 MCF on choke @ 70 psig.

03-21-09 Well made 38 BO, 10 BW, 127 MCF, on choke @ 70 psig. DCP changed orifice plate and may not have changed meter factor.

03-22-09 Well made 34 BO + 14 BW + 113 MCF.

03-23-09 Well made 33 BO + 10 BW + 113 MCF. Early gauge.

03-24-09 Well made 31 BO + 8 BW + 109 MCF.

03-25-09 Well made 37 BO + 11 BW + 110 MCF.

03-26-09 Well made 30 BO + 9 BW + 110 MCF. Early gauge.

03-27-09 Well made 29 BO + 9 BW + 69 MCF.

03-28-09 Well made 34 BO + 8 BW + 46 MCF.

03-29-09 Well made 36 BO + 10 BW + 44 MCF.

03-30-09 Well made 36 BO + 10 BW + 48 MCF.

03-31-09 Well made 36 BO + 10 BW + 51 MCF. Final report.

04-01-09 Well made 36 BO + 0 BW + 51 MCF. " " " " .

04-02-09 Well made 36 BO + 0 BW + 50 MCF. " " " " .

04-03-09 Well made 36 BO + 0 BW + 50 MCF. " " " " .

04-04-09 Well made 36 BO + 0 BW + 51 MCF. " " 675 " .

05-05-09 Well made 34 BO + 0 BW + 52 MCF. " " " " .

05-06-09 Well made 36 BO + 0 BW + 51 MCF. " " " " .

04-07-09 Well made 34 BO + 0 BW + 49 MCF. 6/64" @ 675 psi.

04-08-09 Well made 36 BO + 0 BW + 51 MCF. " " " " .

04-09-09 Well made 36 BO + 0 BW + 52 MCF. " " " " .

04-10-09 Well made 36 BO + 0 BW + 55 MCF. " " " " .

04-11-09 Well made 36 BO + 0 BW + 53 MCF. " " " " .

04-12-09 Well made 38 BO + 0 BW + 55 MCF. " " " " .

04-13-09 Well made 36 BO + 0 BW + 52 MCF. " " " " .

04-14-09 Well made 36 BO + 0 BW + 55 MCF. " " " " .

04-15-09 Well made 38 BO + 0 BW + 16 MCF. " " " " .

04-16-09 Well made 36 BO + 0 BW + 0 MCF. " " " " .

Martin booster is down.

04-17-09 Well made 36 BO + 0 BW + 30 MCF. " " " " .

04-18-09 Well made 36 BO + 0 BW + 56 MCF. " " " " .

04-19-09 Well made 38 BO + 0 BW + 53 MCF. " " " " .

04-20-09 Well made 34 BO + 0 BW + 53 MCF. " " " " .

05-05-09 Well made 32 BO + 0 BW + 50 MCF.

05-06-09 Well made 32 BO + 0 BW + 49 MCF.

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05-07-09 Well made 31 BO + 0 BW + 49 MCF.

05-23-09 Well made 28 BO + 0 BW + 45 MCF. 6/64" @ 500 psi.

05-24-09 Well made 29 BO + 0 BW + 46 MCF. 7/64" @ 500 psi.

05-25-09 Well made 24 BO + 0 BW + 45 MCF. " " " " .

05-26-09 Well made 27 BO + 0 BW + 45 MCF. " " " " .