

Kevin Myers

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Sent: Monday, March 20, 2017 21:39
Subject: Fw: WYCO Oil & Gas LLC - University 20-12 #1 - Winkler County, Texas: Daily Reports
 Latest daily reports for the subject well follow below...

2017-02-27

Continue flowing well to pit after acid job.
 Both tubing and casing flowing small volume of gas throughout day.
 Intermittent small flows of amber oil from tubing throughout day.
 Intermittent small flows of water from casing throughout day.
 Small flow of dark oil from casing started at 18:20.
 SI csg, turn tbg thru separator to battery at 19:45. SDFN.

2017-02-28

Oil tank 1' 7.5", water tank 2' 0.5".
 MIRU swab unit.
 Drop standing valve. Pressure tbg to 1200 psi with kill truck, leaked quickly to 950 psi, got rate out casing while pumping down tbg.
 Fish standing valve. Flow from casing when standing valve unseated.
 Suspect tbg and pkr leaks.
 Make 22 swab runs recovering est 120 BW w/SSO. Pulled 750' - 1400' per run. IFL 580', FFL 5500'. 750' - 1200' fluid entry per run.
 Suspect majority of fluid entry from suspected tbg and/or packer leaks.
 CI & SDFN.

2017-03-01

Overnight SITP 30, SICP 330.
 Blow down tbg & csg to pit, all gas.
 Make 4 swab runs recovering est 2 BO, 28 BW. Pulled 1100' - 1600' per run. First run est 10% oil, remaining runs SSO. IFL 2900', FFL 3600'. 1000' - 1300' fluid entry per run. RD swab unit. Suspect majority of fluid entry from casing via tubing or packer leak.
 MIRU J&W well service unit.
 Release pkr, POH w/tbg, LD pkr. Packer seals in extremely bad shape, apparently confirming suspected packer leak.

2017-03-02

Prep to scan & hydro test tubing in hole to 8500 psi.
 Run 4' pony jt, 10K treating pkr, 10 stands, pkr hung up & would not go further.
 POH w/tbg & pkr. Found pkr for wrong wt casing. Wait on correct pkr until 12:45.
 RIH w/4' pony jt, 10K pkr for 23# csg, 48 jts new tbg from DRM.
 Scan & test 247 jts old tbg in hole to 8500 psi, lay dn 101 jts red, green, & blue band (41%).
 Did not bust any joints.

2017-03-03

Finished scanning and testing in hole to 8500 psi w/10K treating pkr on 2.875" N-80 & L-80 production tubing.

Final scanning results: 20 jts red band, 71 green, 66 blue, 229 yellow.
 Left 43 jts yellow band and Enduralloy pump joint on rack.
 Move all remaining old tbg from rack to ground.
 Cactus (Abilene) delivered & racked 150 jts new 2.875" 6.5 #/ft EUE L-80 tbg.
 Moved old tbg from ground to Cactus truck for delivery to Tx Heat's SMQ yard in Monahans.
 Pick up & run additional 142 jts new 2.875" tbg.
 Tag top of liner with last jt 16 ft in. Lay down 2 jts.
 Pick up P-110 landing joint, set pkr at approximately 11857'.

Tubing detail as follows (bottom to top):

4' tbg sub with collar on btm (4 ft)
 10K treating pkr (6 ft)
 48 jts new tbg from DRM (avg length 30.9 ft)
 186 jts yellow band (scanned and tested to 8500 psi, avg length 30.8 ft)
 141 jts new L-80 tbg from Cactus (9 joints remain on rack, avg length 32.7 ft)
 1 P-110 landing joint (32.7 ft)

RU Acid Tech, test lines to 10000 psi.

Re-acidized perfs 12027' - 13461' overall w/7500 gal gelled 15% NEFE HCL with friction reducer in 6 equal stages separated by 500 to 1500 lbs GRS in 10 bbls 10# BW, flushed with 240 bbl 4% KCL water. Rate 6-8 bpm at 6100 to 9200 psi, avg 6500. 1st stage no block action, 2nd stage fair block action, 3rd stage good block action 4th stage almost blocked off, 5th stage completely blocked off at 9200 psi. Had to surge salt off perfs multiple times before able to finish pumping flush. Estimated WLTR (this job only) 517 bbls.
 Open well and flow back load to pit overnight.

2017-03-04

Well flowing by heads to pit this AM. Started making visible oil around 7:30 AM.
 Estimated overnight recovery 60 BW.
 Oil tank 1' 7.5", water tank 2' 1".
 Switched through separator to battery at 09:30.
 Continued flowing by heads throughout day.
 Left open to separator overnight.

2017-03-05

Oil tank 2' 0", water tank 4' 10".
 24 hrs ending 09:30, flow 12.4 BO 49 BW, CP pkr, TP 20. Flowing by heads.

2017-03-06

24 hrs ending 09:30, flow 15.2 BO 47 BW, CP pkr, TP 20. Flowing by heads.

2017-03-07

Oil tank 2' 10.5", water tank 7' 5".
 24 hrs ending 09:30, flow 13.8 BO 31 BW, CP pkr, TP 20. Flowing by heads.
 Ordered 40' pump and 36' polish rod.

2017-03-08

Oil tank 3' 3.25", water tank 8' 4.5".
 24 hrs ending 09:30, flow 13.1 BO 32 BW, CP pkr, TP 20. Flowing by heads.

Ordered 12 cylinders nitrogen for SSI pumping unit counterweight. Rick picked up 6, will pick up other 6

tomorrow.
 MIRU J&W WSU.
 Could not get pkr to release.
 CI & SDFN.

2017-03-09

Pumped 35 bbl brine dn tbg to help equalize pkr.
 Released pkr, POH w/tbg & 10K treating pkr, LD pkr.
 RIH w/production tubing as follows:

4' tbg sub with collar on btm (4 ft)
 mechanical hold down seating nipple (1 ft)
 1 jt new tbg from DRM (avg length 30.9 ft)
 1 jt Enduralloy (32.7 ft)
 10 jts new tbg from DRM (avg length 30.9 ft)
 TAC
 37 jts new tbg from DRM (avg length 30.9 ft)
 186 jts yellow band (scanned and tested to 8500 psi, avg length 30.8 ft)
 140 jts new L-80 tbg from Cactus (10 joints remain on rack, avg length 32.7 ft)
 1 P-110 landing joint (32.7 ft)

Set tbg anchor w/25 pts tension.

2017-03-10

Oil tank: 3' 8.5", water tank 1' 6.5".

Found wrong size nitrogen cylinders ordered yesterday (200 CF), RLM already picked up & delivered 6 to location.

TRC picked up 16 1" S88 rods at MECO shop, delivered & unloaded all rods at location.

Ran pump and rods as follows:

1 - 2.5" x 1.5" x 40' pump with mechanical hold down, double valves, and 7/8" pull rod with 7/8" pin
 1 - 1.625" Grade K sinker bar with 7/8" pins and FH SMC
 1 - 33K shear tool with 7/8" pins and FH SMC
 13 - 1.625" Grade K sinker bars with 7/8" pins and FH SMC
 146 - 7/8" Class B Norris 97 rods with FH SMC
 32 - 1" Class B #2 MMS rods with SH SMC
 22 - 1" Class B #1 MMS rods with SH SMC
 16 - 1" S-88 rods with SH SMC
 157 - 1.25" x 37.5' Fiberflex rods w/1" SH SMC
 1 - 1" x 8' Norris 97 pony rod with SH SMC
 1 - 1.5" x 36' polish rod (spray metal on bottom 30') w/1" pin and SH SMC

KAM picked up charging hose and eight 300 CF nitrogen cylinders, and delivered to location.

Tested tubing and pump to 500 psi ok with kill truck.
 Long stroked pump & pumped up ok.
 Spaced pump plunger 7' off bottom, hung rods off on stuffing box.
 Left casing SI, tubing open to battery.
 SDFN at 11PM.

2017-03-11

Oil tank 3' 11", water tank 3' 10".
 16 hrs ending 3PM, flow 6.9 BO 46 BW. CP NR (SI), TP 20. Flowing by heads.

2017-03-12

Oil tank 4' 0.5", water tank 5' 3".
21 hrs ending 12PM, flow 4.1 BO 41 BW. CP NR (SI), TP 20. Flowing by heads.

2017-03-13

Oil tank 4' 2", water tank 6' 8".
SSI rep on location to finish setting up SSI Model 400 long stroke hydraulic pumping unit (60 HP power unit, max stroke 288", max load 40,000 lbs) and perform initial preventative maintenance.
Found pumping unit 0.4" too close to wellhead, but within acceptable tolerance.
Cleaned and re-connected all hydraulic and nitrogen hoses. Added 6 bottles nitrogen to counterweight cylinders.
Hung well on. Tested control unit and pumping unit ok.
Rig down J&W well service unit.
Finish NU well head connections.
Open well, bleed down tubing and casing through separator to battery.
Started pumping at 4PM through 3 phase separator to battery, w/2.5 x 266" x 1.5" spm.
Casing kept flowing until 16:20. Oil tank now 4' 6.875".
Hauled off 200 BW. Wtr tank prev 7' 0", now 1' 0".

2017-03-14

KAM rent & deliver man lift from Home Depot.
Oil tank 4' 8.5", water tank 3' 4".
18 hrs ending 10AM, pump 17.9 BO 121 BW w/2.5 x 266" x 1.5" spm, CP 20, TP 250.
Finished additional pumping unit setup and maintenance.
Straightened position sensor chain. Bled off air from hydraulic cylinder. Oiled bridle cables.
Resumed pumping at 13:30.
Est 86% pump fillage based on pumping unit controller surface dyno card.
Shut in from 19:30 to 20:30 shooting fluid levels.
Problems with fluid level gun printer. Could not read level on first 3 shots. Initial fluid level was high, but not at surface.
At 20:10 FL 1764' from surface, at 20:20 FL 2142', at 20:30 FL 2678'.
Rapidly dropping fluid level indicates very foamy fluid in annulus.
Back on pump at 20:45

2017-03-15

19.25 hrs ending 10AM, pump 8.3 BO 99 BW w/2.3 x 282" x 1.5" spm, CP 20, TP 250.
PPRL 27282, MPRL 16441.

2017-03-16

24 hrs ending 10AM, pump 6.9 BO 88 BW w/2.3 x 282" x 1.5" spm, CP 20, TP 250.
PPRL 25812, MPRL 16261.
Pumping unit controller appears to indicate approximately 83% pump fillage.
Reported rod loads suggest gassier fluid in tubing than prior day.

2017-03-17: 24 hrs ending 10AM, pump 4.1 BO 50 BW

2017-03-18: 24 hrs ending 10AM, pump 6.9 BO 66 BW

2017-03-19: 24.5 hrs ending 10:30AM, pump 19.3 BO 80 BW

2017-03-20

24 hrs ending 10:30AM, pump 24.9 BO 52 BW

Installed SCADA modem and antenna on SSI control unit.

Called Michael Taylor with University Lands. Mr. Taylor stated that he had been on well location earlier this morning to confirm production, and that a message from Buck Underwood or James Holtzclaw confirming HBP status of lease would be forthcoming.