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 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

WELL API NO. 30-045-30922
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Pretty Lady 30-11-34
8. Well Number #1
9. OGRID Number 247130
10. Pool name or Wildcat SWD; Mesa Verde

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other SWD; Mesa Verde	
2. Name of Operator Agua Moss, LLC	
3. Address of Operator PO Box 600, Farmington, NM 87499	
4. Well Location Unit Letter <u>J</u> : <u>1760</u> feet from the <u>South</u> line and <u>1475</u> feet from the <u>East</u> line Section <u>34</u> Township <u>30N</u> Range <u>11W</u> NMPM County <u>San Juan</u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 5789' GL	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/> DOWNHOLE COMMINGLE <input type="checkbox"/> CLOSED-LOOP SYSTEM <input type="checkbox"/> OTHER: _____ Step Rate Test <input type="checkbox"/>		SUBSEQUENT REPORT OF: REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/> CASING/CEMENT JOB <input checked="" type="checkbox"/> OTHER: _____ <input type="checkbox"/>	
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13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Agua Moss, LLC repaired the casing as outlined in the attached work summary.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Philana Thompson TITLE Regulatory Compliance Specialist DATE 8/4/2023

Type or print name Philana Thompson E-mail address: pthompson@merrion.bz PHONE: 505-486-1171

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

Work summary**4/27/2023**

Tbg & Csg: 1040 psig. BH: 0 psig. MIRU wireline. Remove wellhead shelter. RIH w/ 3.75" OD gauge ring through tail joint. Tag up @ 3,796' KB (68' rathole, 34' of perfs covered, 34' perfs open). PU 4-1/2" composite bridge plug (3.5" OD). RIH to set in lower 4-1/2" x 8' pup jt (3,723' KB), did not appear to set properly. Pulled up hole and could not get past packer. Able to go down through the wireline reentry guide (3.88" ID) and back up through it. Unable to pull up past packer after multiple attempts and injecting at 8 bpm. Ultimately ended up pulling out of rope socket and dropping tool string. SI well, shut down for day.

4/28/2023

Tbg/Csg: 1040 psig; BH: 0 psig. MIRU wireline. RIH w/ noise log tools. Opened annulus to vac tank. Flowed annulus and ran noise log from 3350'KB through packer. Low noise point at 3500' KB, higher noise below point. SI casing and TOOH w/ WL and LD tools. RDMOL w/ WL. SI well.

4/29/2023

Tbg/Csg: 1040 psig; BH: 0 psig. MIRU wireline. RU downhole camera. RU and pump 120 bbls of fresh water to clean up wellbore. Run camera. EOT not clear, lots of scale, top of fish identified at 3758'KB (+/- 3'). Tried to identify a possible hole at 5300' and tried to identify flow within tbg while flowing annulus, results inconclusive. SI well for night.

5/3/2023

Tbg/Csg: 1040 psig; BH: 0 psig. MIRU wireline. RIH w/ 9' of shot rod @ 3721' KB (bottom tail joint top at 3719.82' KB) and shot the shot. Bottom collar was not seen on collar locator. Reviewed footage from previous day and concluded that tail joint is not attached to packer. RD wireline, shut in well and await next steps.

5/5/2023

Tbg/Csg: 1040 psig; BH: 0 psig. MIRU wireline, run 4.5"-gauge ring and collar locator. PU 4.5" x 3.9' long RBP and run in hole. Get on depth with log and top of packer, Set RBP @ 3703' KB (correlated), middle of seals 5' from top and 5' from bottom of seal assembly. RD WL and blow down tbg, no communication with the annulus. RU pump truck and pressure test tbg to 1500 psig, held good. RU to csg, pressure up to 1200 psig with no rate, pressure up to 1500 psig estimated rate of 1/4 bbl per minute. RD pump truck, shut in well and await next steps.

5/11/2023

Tbg/Csg: 1040 psig; BH: 0 psig. MIRU slickline. RU 5-1/2" x 20' lubricator w/ BOP and pump in sub, PU Weatherford retrieving head, bump sub, hydraulic jars and spanger jars, run in hole to 3703' KB and latch onto RBP. Equalize well then jar down twice to break equalize ports and jar up once to release RBP, pull out with RBP. RD slickline, RU wireline, run temperature and noise baseline. Flow back 20 bbls from annulus to tank, then run temperature and noise log again. Identified temperature and noise anomalies at

2000', 2150', 2750', 3300', 3500', and at packer. Awaiting final logs. Total fluid back 80 bbls. SI well, shut down for the weekend.

5/15/2023

Tbg/Csg: 1040 psig; BH: 0 psig. Road rig to loc, MIRU HWS #58, delivered pipe racks, front end loader, rig pump, accumulator. Spotted mixing pit w/ Gen set. Loaded pit w/ fresh water & mixed 225bbls of mud to a 41visc, 11.9ppg, 11 Ph (156sx Gel, 480sx Bar, 2sx Caustic Soda). Set pipe handler. 1600sx of Barite, 288sx of Super-X Gel, 10sx Desco, 10sx Caustic Soda delivered. Mixed mud for the remainder of day while crew spotted equip, unloaded trucks and rigged up.

5/16/2023

Tbg/Csg: 1040 psig; BH: 0 psig. Began mixing mud. W/L on loc, RU lubricator & shivs and ran in hole with 4.5" RBP and set 5' below top of seal assembly at 3707'KB. Bled off 5-1/2" prod string to 0psi, plug held. RD wireline. ND wellhead assembly and NU mud cross, 11" BOP, 11" annular. RU wireline and RIH with 9' shot (10ea 0.41" EHD, 1 spf), first run did not fire, made 2nd run. Shot 10ea hole F/ 3690' – T/ 3699' (btm perf is 3' above top of seal assembly). 5-1/2" csg began to flow water after perforating. Set up to flowback 5-1/2" injection string to release fresh water, replaced with salt water in annulus. RD wireline, installed 5-1/2" swage and installed 2-7/8" TIW valve, shut in 5-1/2" inj string. Shut in csg. Continued to mix 400+bbls of mud to a 41visc, 14.05ppg, 10ph.

5/17/2023

Tbg/Csg: 1040 psig; BH: 0 psig. Started mixing equipment, circulated mud & made final check at 41visc, 14.05ppg, 10.0Ph. Pumped 88bbls of mud down 5-1/2" inj string while holding 1100psi Back Pressure on csg. SD & shut in csg, increased mud volume in pit from reserve tank, verify mud check at 41visc, 14.05ppg, 10ph. Continued pumping down 5-1/2" holding BP and incrementally decreasing BP to adjust for hydrostatic head increase. Pumped 256bbls of mud, returned good mud at 13.5ppg w/ 240psi BP (csg still holding 100psi). Transferred remaining reserve mud to pit & plumbed casing to reserve tank, mixed an additional 60sx of bar & 1/2 sk of caustic soda to increase reserve mud to 14.1ppg, 41visc, 9.5Ph. Continued pumping & increased BP to 900-1000psi, pumped an additional 25bbls, mud returned at 13.9ppg. SD and checked flow, well balanced/killed. LD 1jt of 5-1/2" csg. Installed 11" x 7-1/16" adapter and Washington stripping head. PU 1jt of 5-1/2" and 15' sub and relanded into seal assembly with 15K compression.

5/18/2023

Tbg/Csg: 1.2psi; BH: 0 psi, released small pocket of air. Pull from seal assembly, no csg reaction. LD 15' sub & 1jt of 5-1/2", 8', 4', 6', 2' subs and 1 additional jt. RU slickline, RIH and retrieved 4-1/2" RBP from seal assembly. Continue TOH w/ a total of 87jts of 5-1/2", 17#, IPC csg & 4 subs while pumping across pipe to maintain hydrostatic head. Removed 10.5' seal assembly. RU wireline, RIH w/ 5.81"-gauge ring & CCL, found top of 9-5/8" Pkr seal assembly at 3700', btm at 3710', went to 3720.5' w/ gauge ring. Picked up a 5.75" OD CBP, correlated w/ gauge ring run and set CBP at 3707'(top)- 3709.5'(btm). TOH, PU CBL/CCL/Temp log. Log well F 3707' to Surface. Shut in well & SDON.

5/23/2023

Tbg/Csg: 2psi; BH: 0 psi, released small pocket of air. Picked up 2-7/8" SN & RIH w/ 117jts and tagged at 3701'KB (per tbg tally). Displaced mud weighing 12.8ppg, mud pit at 14.01ppg. RU and pumped mud around until 13.9ppg to surf. Attempted to enter into seal bore assembly, tagging at 3701'KB, could not enter easily. SD pump, LD 1jt and stood back 58stds of 2-7/8" tbg. RU wireline, picked up 36' dump bailer assembly, loaded with 200lbs of sand. RIH, tag 3703', CBP set 3707'. Broke glass w/ charge, worked bailer for several minutes to work sand out, pulled up hole and tagged high at 3696', seal assembly top at 3700'. TOH w/ bailer, left sand downhole. RIH w/ 3-1/8" guns, 4spf, 0.50"ehd. Perforated 9-5/8" csg at 2050'KB, csg went on immediate vacuum, no movement at Braiden head valve. RD wireline. Attempted to dig out 1" BH valve, found Quickrete poured around wellhead, chipped concrete w/ hammer drill, pick, electric jack hammer, etc. Dug approx. 3' deep and have not located entry into csg head. Poured water into 1" valve/pipe, pipe standing full after approx. 1 gallon, BH valve closed and/or plugged below ground level. Scheduled backhoe for tomorrow morning in attempt to locate obstruction in BH valve. Shut in well and SDON.

5/24/2023

Csg: vacuum; BH: 0 psi Backhoe on location, dug down to locate Braiden head behind culvert approx. 4' then cut out culvert with grinder. Chipped away cement from inside culvert with air hammer and electric jack hammer following 1" Braiden Head piping, did not locate BH at 4'. RU pump to 1" line and attempted to clear with pressure, approx. 100psi did not clear. Continued digging to 96" beside 1" pipe and could not locate connection to BH, could not locate 13-3/8" surface casing. Back filled hole, tamped in as it was back filled. TIH with 58stds from derrick and LD 2jts, left 57stds (114jts of 2-7/8" in well), landed on rig slips, installed TIW valve and shut in BOP. Lowered derrick and moved rig away from well head.

5/25/2023

Csg: vacuum; BH: 0 psi. One Call Notification. Power washer rigged to 1" BH valve in attempt to clear obstruction. Maintained 400-500psi, lost approx. 16 gal of water in ~30 minutes. SD injection periodically, pressure would fall off to 200psi in 30sec, 100psi in ~2 min, did not fall to vacuum.

5/26/2023

Csg: vacuum; BH: 0 psi. Dug down to locate Braiden head, chipped & jack hammered cement from inside 4' culvert and found 1" 90, 1" x 2" bushing and 2" collar welded to surface csg approx. 6" below top of 13-3/8" surf csg. 13-3/8" csg 10' from surface, 1/2" spacer plate welded to top of 13-3/8 over to 9-5/8" csg. Removed 1"x2" bushing and found 13-3/8" plugged off with hard, tan colored "mud", will not be able to circulate to surface. Installed a 2" street L into welded collar and plumbed back to surface with 2" pipe and 2" surface valve (no valve below ground level), back filled trench and tamped down while filling. Set matting board and spotted unit back to wellhead. RU HWS #58. Condition mud in pit. RU pump to tubing and loaded csg with 35bbls of mud, circulated until returned 13.9ppg to surf. Shut in casing to Est inj rate into squeeze holes at 2050'. Well pressured up to 600psi, SD pump fell F/500psi - T/ 190psi in 10 minutes, a few attempts to pump into with similar results, nothing at BH valve. Notified EIC R. Davis. Shut in well and SD for holiday weekend. Note: **Clarence Smith (NMOCD) on location and witnessed BH install.**

5/30/2023

Csg: light vacuum; BH: 0 psi. Conditioned mud, mixed to increase wt. to 14ppg. RU pump & loaded csg with 2bbls of mud. Circulated until mud wt. at 13.8ppg on returns. Shut in csg & increased pressure to 1000psi, 900psi ISIP, to 600psi in 1 minute, 200psi after 2 minutes. No reaction at BH valve. RD pump to pull tbg, TOH with 114jts of 2-7/8" tbg. RU pump to BH valve & attempted to clear with water, up to 1000psi multiple times with slow bled off, could not clear. R. Davis discussing situation with NMOCD (Gilbert C., SE NM area) RU wireline. RIH w/ 3-1/8" perf guns & shot 4spf at 1890'KB, no vac/blow. TOH w/ guns, all shots fired. Pumped mud down csg, caught pressure w/ ~6bbls away, increased pressure to 500psi on mud gauge. Brought on pump, caught pressure w/ approx. 2bbl away, maintained 1.5bpm. Pressure slowly walked to 400psi, steadied then climbed to 800psi, steadied then climbed to 1000psi before falling off slowly to 800psi, SD pump, fell to vacuum after 4 minutes, pumped a total of 29bbls. Discussed cmt calcs w/ EIC. RIH with SN & 60jts of 2-7/8" tbg, EOT at 1897'KB. RU, pumped 10bbls of water ahead, **mixed & pumped 100sx of Type III neat cmt (14.6ppg, 1.37yld, 137cuft, 24.4bbl)**, displaced w/ 4bbls of water (hesitated at 2bbl, vacuum, SD at 4bbls w/ slight back pressure) bled off tbg, csg stopped circulating approx. same time. TOH w/ 6 stds (384') of tbg, EOT at 1517'KB. Reverse circulated w/ 16bbls of water, returned 10bbls of cement slurry, plug did not balance. Pulled 2 additional stands of tbg. Squeezed cement behind csg w/ 11bbls of water, hesitated 3 times, max pressure=1130psi, final pressure at 875psi, shut in well. Estimated calc of 45sx behind csg. SDON.

5/31/2023

SICP=10psi, SITP=300psi, BH= 0 psi. Bled off tbg string, recovered ~2bbls of water. TIH and tagged TOC at 1850'KB. Spotted rig pit & power swivel unit. Reverse circulated mud out of wellbore with water to mixing pit. TOH with 2-7/8" tbg. Picked up an 8.75" tri-cone mill tooth bit, bit sub & DC, bit would not enter csg, possible 53.3# csg at surf, removed 8.75" bit, Make up 8.375" tri-cone button bit, BS, 4ea 3-1/2" DC's, X/O, and RIH on 55 jts of 2-7/8" tbg. Pick up power swivel. Break circulation with rig pump and reverse circulate to rig pit. Drilled cement F/ 1850' - T/ 1955' (**top targeted squeeze holes at 1890', calc cement behind csg at 1890' = 27sx**) in 3hrs, circulated well around with water from 2082'KB, shut down and monitored well, static. RD power swivel, installed TIW valve in tbg and pressure tested csg to 590psi, watched 5 minutes, fell to 500psi, slow fall off. Bled off pressure and TOH w/ 10stds of 2-7/8" tbg. Shut in well & SDON.

6/1/2023

SICP=light vac, SITP=0, BH= 0 psi. TOH w/ 2-7/8" tbg, 4ea DC's & 8.375" Bit. RU wireline & run CBL F/ 2080' (tools stacking out on drill mud) T/ surf. Found more bond F/ ~1870' - T/ 2080' than CBL ran on 5/18/23. RD wireline. Installed 11" stripping head. Picked up an 8.49" tri-cone tooth bit, 4ea 3-1/2" DC's and RIH on 2-7/8", N-80 work string to 2082'KB, installed 11" x 2-7/8" stripping rubber. Circulated mud around in mixing pit. RU pump to tbg & evacuated 150bbls of water from wellbore to tank. RIH to 3222'KB. Circulated around with mud and circulated until clean mud returned. Shut in well & SDON.

6/2/2023

SICP=100psi, SITP=140psi, BH= 0 psi. Bled off air from tbg/csg, no flows observed (mud was aired up yesterday). RU pump and circulated well around, RIH and tagged at 3300'KB, LD 13singles & run back 6stds. Pick up power swivel. Worked down w/ swivel while reverse circulating, tagged at 3290'+/-. Reversed circ down to 3317', attempted with swivel on/off, would plug & catch pressure when any WOB was applied, 45min to work down 1 jt, circulate clean. Made connection & changed circulation to

conventional, rotated down jt#101(3348') in 14 min, had to pick up a few times for torque, no plugging, pump began cavitating. Made connection, drilled approx. 7' & pump began cavitating harder. LD 8.5" bit, picked up 8-3/8" tri-cone bit, 8.5" watermelon mill, 4ea 3-1/2" DC's and TIH 53jts of 2-7/8" tbg to 1800', reinstalled 11" x 2-7/8" stripping rubber. Shut in well & SDON.

6/3/2023

SICP=light vacuum, SITP=0psi, BH= 0 psi. Currently at 1800' w/ 8-3/8" Bit & 8.50" watermelon stacked on top. Pick up power swivel, circulate hole around with mud conventionally. Rotated 8.50" mill with 10jts F/ 1800'-T/2117', no obstructions. LD 10jts using mud bucket & mixing pit as suction. RIH with stds & tagged at 3300'KB. Pick up power swivel. Worked down w/ swivel while circulating conventionally to 3400'+/-, progress slowed dramatically F/3400'-T/3520'(approx. 5hrs) then fell through tight csg and circulated/rotated to 3660' (45 minutes). Encountered slow progress at 3660', worked to 3685'. Pump has begun to cavitate again. TOH with 113jts of 2-7/8" tubing while using mud bucket and pit suction, LD 4ea 3-1/2" DC's, 8-1/2" watermelon mill & 8-3/8" tooth bit. Shut in well.

6/5/2023

SICP=vacuum, BH= 0 psi. On location at 0700hrs. Picked up a 2-7/8" notched collar and RIH on 117jts of 2-7/8" work string, tagged at 3685'KB. Established circ w/ <1bbl of mud, circulate around for approx. 10min, begin clean out. C/O to approx. 3690' only able to get a foot then pick up to circulate to surf then try again. Recovering large pieces of cement. Swapped lines to circulate conventionally. Worked pipe to 3702.8' (per tbg tally, wireline has top of seal assembly at 3700', top of 6" CBP at 3707' w/ 6' log correlation). Could not work notched collar passed 3702.8'KB. Circulate conventionally at 2x annular volume at 2.25bpm (3hrs45min). Shut down pump and attempted to feel top of seal assembly, small bump at approx. 3697'KB, not confident of seal top. Rig up pump to reverse circulate, circulated 5x tbg volume at 2.25bpm (45 min). Shut down, hang back power swivel, pulled 2 stands, shut in well & SDON.

6/6/2023

SICP=light vacuum/SITP=0psi, BH= 0 psi. RIH with 2 stds and tagged top of 9-5/8" packer seal assembly at 3696'KB, picked up and fell through, tagged CBP at 3702'. RU pump and reverse circulate well for 45 minutes. SD and TOH, notched collar was wiped out. RU csg crew. Picked up **4.5' seal assembly (3.5' below No-Go), 5-1/2" x 7" 8rd X/O, 7" Float Collar, 1jt of 7", 23# csg (42.05'), 2nd Float Collar, 9jts of 7", 23# csg (378'), 9-5/8" ACP (16.52'), 7" Stg Tool (2.26'), 7", 23# pup jt (12.82') and RIH on 77jts of 7", 23#, LTC casing.** Note: Placed centralizer at shoe track, 1 below & above Pkr/Stg Tool and every 500'. Circulated csg every ~1000'. Circulated csg around, shut in well and SDON.

6/7/2023

SICP=400psi, SITP=0psi, BH= 0 psi. Bled off 9-5/8" csg, had small water flow. Continue TIH w/ 7", 23# csg. Found top of 9-5/8" Packer and set inside seal assembly approx. 4', RU pump and pressured up to 1000psi, seal assembly isolated. Pull up 6' and circulate mud around with rig pump. Csg continues to flow water, shut in well and built to 420psi. RU to csg w/ 7" cementing head. P/T lines to 3500psi. **Pumped 1st stage: 60sx of Type III neat cement (79.88cuft, 14.25bbl, 1.33yld, 14.6ppg, 6.63gps),** dropped wiper plug & displaced w/ 144bbl water while holding back pressure on csg, SD at 143.5bbl and lowered seal assembly into 9-5/8" pkr, pressured up to 800psi, then 2500psi to set ACP. Bled off BP, all good. Dropped opening tool, hesitated 20min, open stage tool, circ 5bbls of water and begin next stage. **2nd Stage: 217sx of 90/10**

Type III/Poz lead cmt (464cuft, 83bbl, 2.14yld, 12.5ppg, 12.05gps) followed by 20sx Type III cmt (27cuft, 4.75bbl, 1.33yld, 14.6ppg, 6.63gps), dropped closing plug and displaced with 128bbls of water. Returned 3bbls of cement from 1st stage and 4bbls of cement from 2nd stage. RD cement head. ND BOPE, set 7" slips with 35K csg weight in wellhead, NU recompletion spool and BOPE. Shut in well and SDON. Note: Ran 87jts of 7", 23#, J55 csg and 15' landing joint. 5" ID seal assembly at 3697'KB, Upr Float Collar at 3651'KB, 9-5/8" ACP at 3255'KB, stg tool at 3252'KB. Thomas Vermersch (NMOCD) on location to witness cement job.

6/8/2023

SICP=0psi, BH= 0 psi. Picked up a 6-1/8", insert cone bit and RIH on 4ea 3-1/2" DC's and 98jts of 2-7/8" work string, picked up jt#99 with power swivel. Tagged cement at 3222'KB. Reverse circulated & drilled to 3252'. Circulated tbg clean and change direction. Drilled closing plug & stage tool conventionally. TIH on 112jts & tagged cement at 3643', drilled cement to 3651', drilled out upper float collar, drilled cement through shoe track and tagged lower float collar at 3695', drilled on remnants & FC. Circulate hole, hang back swivel & TOH 10stds. Shut in well and SDON.

6/9/2023

SICP=0psi, SITP=0psi, BH= 0 psi. On location at 0700hrs. RIH w/ 10stds of 2-7/8" tbg, tagged at 3695', drilled on lwr float collar for approx. TOH w/ 6-1/8" tri-cone, bit looks good. Picked up a 4-3/4" "Twister" bit, placed float (flapper type) in bit sub and TIH on 4ea 3-1/2" DC's and 2-7/8" work string. Tagged 8" deeper than with 6-1/8" bit, marked pipe for top of 7" x 5-1/2" swage. Circulated hole and rotated easily 2' into 3-1/2' seal assembly, tbg tally depth at 3702'KB. Left approx. 15" of cement inside seal assembly, circulated 1.5x hole volume. Hang back swivel, LD 2-7/8" pup jt w/ 1 single and TOH w/ 7stds. Shut in well and SDFW.

6/12/2023

SICP=0psi, SITP=0psi, BH= 0 psi. On location at 0700hrs. RIH w/ 7stds, 1 single & tbg sub of 2-7/8" tbg, tagged at 3698'KB then fell through & tagged cement. Conditioned mud system to 33 visc, 13.9ppg, added 2sx Desco. Circulated mud into wellbore & circulated out water. Checked mud returns at 12.9ppg. Began drilling remaining cement in 5" seal assembly and encountered 6" CBP at 3704'KB, drilled through plug in 40 minutes with 4-3/4" "Twister" bit. Lost circulation momentarily then came back with full returns, circulate wellbore. Shut down pump & checked flow, well flowing slightly, shut in csg, built to 20psi. Picked up 1jt of 2-7/8" tbg & ran in to 3737'KB, no tag. LD 2jts, TOH with 2-7/8" work string, 4ea 3-1/2" DC's and the 4-3/4" Twister bit. Well on light vacuum when DC's reached surf, then well was static. RU wireline and picked up an AS-1X packer w/ plug set inside XN Nipple. RIH with packer, felt heavy drag and had to pick up on a few tags to get passed. Walked packer down. Tagged at 2380', could not pull free, pulled to 1320# and came free. TOH slowly with wireline, tight spots at 2005' & 1923'. RD wireline and broke down subs on packer to send to town for tbg deployment setup. Picked up a 2-7/8" mule shoed sub and RIH on 76jts of 2-7/8" tbg, EOT at 2407'. Shut in well and SDON.

6/13/2023

SICP=~1psi, SITP=0psi, BH= 0 psi. RIH to 3700'. Reverse circulated hole for approx. 40 minutes, started losing mud returns (300psi on csg at 2.4bpm), calculated ECD at 14.6ppg, reduced pump rate to 1.75bpm at 200psi, still losing mud. Shut down pump, csg pressure climbed to 25psi after 5 min, still short on hole volume to be circulated, possible heavy's inside tbg. Reverse circulated for ~2x hole volume at 1.75bpm, 200psi. Lost a total of 80bbls of mud, shut in csg built to 55psi after full circulation. TOH w/ 2-

7/8" work string. Picked up a 7" x 2-7/8" AS-1X Packer w/ XN nipple 4' below and on/Off tool, RIH on 94jts of 2-7/8" tbg. Began "pushing" at approx. 2800' (lost ~5K string wt.), completely stacked out at 2890', work tool up and back down a few times, stacking at same depth. TOH w/ packer assembly. TIH w/ mule shoe and 76jts of 2-7/8" tbg for kill string, EOT at 2407'. Shut in well and SDON.

6/14/2023

SICP=65psi, SITP=50psi, BH= 0 psi. Opened csg/tbg to pit, watched 5 min, continued to flow back mud. Pumped ~50bbls of 13.5ppg down csg while circulating up tbg (1.5bpm at 160psi) to knock down flow, lost approx. 10bbls of mud. Shut down pump, no flow. TOH with kill string, LD 32 singles. Picked up a 6-1/8" Tri-Cone Mill Tooth bit, 6-1/4" Watermelon Mill and TIH to 2656' and began picking up singles on power swivel. Swiveled down every jt to 3005', felt a light torque at ~3000' (Pkr stacked out at 2890' previous day), brought on pump and reverse circulate well for 35 min, only small pieces of cement cuttings that have been suspended in well was returned. TIH to 3252' & tagged Stg tool, reamed through tool in 4 min w/ 6.25" mill while reverse circulating well. TIH & did not feel float collar w/ 6.25" mill, went down to tag at 3696'KB. Brought on pump & reverse circulated wellbore volume, drilled on seal assembly for a moment to verify tag. Returned a few small pieces of plug debris & small pieces of cement cuttings, mud returned at 13.4-13.5ppg. Shut down pump, tbg slowed to trickle, bled off csg and had a steady ~1" flow, shut in csg, built to 60psi in approx. 15 min. Hang back swivel & LD 5jts of tbg, csg pressure to 0psi with light flow. SDON.

6/15/2023

SICP=55psi, SITP=5psi, BH= 0 psi. Opened csg to pit, flowing mud, opened tbg, no flow after initial bleed off. TOH with 6-1/4" mill, bit & DC's with csg shut in, csg psi at 0 after 2 stands. Csg began to flow again while ND Washington head, shut in csg. RU Wireline and picked up 2-7/8" WLREG, 2.31" XN nipple, 4' sub, 7" x 2-7/8" AS-1X Packer w/ X profile in on/Off tool and RIH on wireline, slow falling through mud but no issues getting to bottom. Set Packer center element at 3684'KB with Wireline re-entry guide at 3695'KB, picked up and set back on packer to verify set. Csg to 38psi, bled off csg, no flow. TOH & RD wireline. RIH & LD 4ea 3-1/2" DC's. Picked up a 2-7/8" mule shoe & RIH on 117jts, tagged top of packer at 3682'KB (per tbg tally). LD jt #117 and picked up 6' sub, EOT at 3680'. RU pump to circulate conventionally. RU to fresh water and begin unloading mud from wellbore. Returns increasing after slowing pump rate to 2bpm then 1.5bpm. Returned a total of 170bbl. Shut down pump and shut in csg. Csg pressure to 950psi after approx. 2 minutes, tbg pressure equalized shortly after. Plug and/or packer have failed. Shut in well. SDON.

6/16/2023

SICP/SITP=950psi, BH= 0 psi. Rigged up a 4' lubricator on top of TIW valve. Opened tbg and flowed back ~2x capacity while listening for plug to possibly return to surface, no success. Rigged up to fresh water and attempted to re-seat plug into packer seal nipple by pumping tubing capacity at ~1bpm ~1200psi. Fluctuated rate and opened discharge while pumping a few times to "rock" plug, no success. SDFW.

6/19/2023

SICP/SITP=930psi (New Gauge), BH= 0 psi. Pumped 140bbls of mud down tbg while holding back pressure on csg at 950psi and lowering slowly as mud returned to surface. Circulated well around after returning mud to surface for approx. 20min, returns at 13.3ppg. Checked flow, well quiet. Removed 6' tbg sub and picked up full jt, tagged exactly at the same depth as Thursday before evacuating mud (marked pipe on initial tag). TOH with 117jts of 2-7/8" work string. RU slickline and RIH w/ 5" magnet, tagged and

worked magnet, TOH w/ magnet, recovered metal shavings, no plug. RIH w/ impression block, tagged and TOH. Found ~2" circular impression near center of block. Shut in well and SDON.

6/20/2023

SICP=0ps, BH= 0 psi. RIH with retrieving head w/ seal assembly on 116jts of 2-7/8" tbg, 2ea 6' tbg subs & latched onto packer. Pulled to 35K to ensure pack-off. Rig up to tbg and increased pressure to 1350psi, held good. Bled pressure & rigged up to csg. Increased csg pressure to 1300psi, held solid. Back to tbg, left pressure on csg, increased pressure to 1900psi, held solid for 15 minutes, no bleed off on csg pressure. Released from on/off tool and picked up & released seals, skirt is hovering over on/off tool. Pumped fresh water via tbg & circulated mud from wellbore. Noticed an increase in flow at the end of circulating. Latched back onto on/off tool. Shut in csg, pressure increased to 950psi after 2 min, no flow at tbg. Tested csg flow w/ tool latched & unlatched, same flow at 0.5bpm. Pressured up to 1600psi on csg with on/off tool latched and tbg open, held solid, no tbg flow. Negative test on packer failed. Decided to pull plug from packer & rework pit to clean mud system. Slickline ran in tbg under lubricator and pierced rupture disc (placed 1000psi on tbg w/ rig pump). TOH, reset spear & RIH for plug. Retrieved plug from well. RD slickline. Shut in well. SDON.

6/21/2023

SICP/SITP=950psi, BH= 0 psi. Bled off csg pressure & opened pipe rams to release from on/off tool, steady flow but not hard. Pulled ~4K over to release retrieving head & csg began to flow very hard. Shut in csg and pressure built to 800psi, no higher. Opened csg to flow again to verify retrieving head was clear of on/off tool then closed csg again. Flow again was hard and csg built back to 800psi. Began pumping kill mud while holding back pressure an incrementally reducing while kill mud came to surface. Pump 40bbls over volume to bring kill mud to surface. Well-built to 130psi while changing valves, mud returns at ~12.9ppg. Continued pumping kill mud around and recovering large amounts of iron sulfide/scale "clumps", mud returned at 13.3ppg, shut down, no flow, shut in csg for approx. 10 min, no pressure. Continued circulating well for 1hr-45 min at ~1.5bpm, <100psi. After circulating well, mud returns were 13.1ppg. Shut down pump and had ~1" flow, shut in csg and built to 20psi in ~5 min, 50psi in 45 min. Re-latched onto on/off tool & shut in well. Cleaned 65bbls mud & began building volume with reserve mud, running mud over shaker while bringing on). Mixed 6sx of Super-X gel and continued to run across shaker. (Mud check: Visc 30, 10.7ppg, 12ph). SDON.

6/22/2023

SICP/SITP=44psi, BH= 0 psi. Mud check at 35 visc, 13.5ppg, 9.5ph. RU to tbg and plumbed csg to tank #906. Released 44psi on csg/tbg and unlatched from on/off tool. Began pumping fresh water to evacuate 13.1ppg kill mud from wellbore (137bbls capacity) while slowly increasing back pressure to maintain well control. Returned 140bbls of fluid, shut down and check returns. Light mud (10.6ppg), shut in pressure above 1000psi. Pumped an additional 20bbls, returned at 9.3ppg, pumped additional 20bbls, returned at 8.9ppg, pumped 15bbls returned at 9.0ppg. Shut in pressure at 1040psi, watched for approx. 30 minutes, fell to 1030psi and seemed to be steady. Secured well. SDON.

6/23/2023

SICP/SITP=1020psi, BH= 0 psi. Condition mud, mixed 160sx of Barite, 2sk of Desco. (Mud check at 35 visc, 14.5ppg, 9.5ph). Bullheaded 98bbls of 14.5ppg kill mud down csg (3131'), shut down pumps, csg went to light vacuum. RU to tbg, pumped 17bbls of 14.5ppg kill mud (2590'), SD, tbg with 200psi. Pumped an additional 2bbl, SD, pressure to 100psi, pumped ~<1bbl, pressure static (19.8bbl total=3420').

Latch onto on/off tool and unset packer, well remains static. Begin slowly tripping out with packer, csg on slight vacuum when pulling (pipe displacement), pumped approx. 2bbls (2x) during trip. Well static with packer at surface. Found a large piece of rubber, from stage tool drill out, stuck in lower slips not allowing full csg engagement with elements, elements had wash out also. Picked up a 6-1/8" bit and 6-1/4" watermelon mill and TIH on 2-7/8" work string to 3696'KB, no obstructions. Rotated mill through section where packer will be reset. LD 3jts, shut in well & SDON.

6/24/2023

SICP/SITP=0psi(static), BH= 0 psi. RIH w/ 3jts and tagged at 3696'KB. TOH w/ worst ring, 6-1/4" mill & 6-1/8" bit. On trip out, started to see light drag periodically w/ approx. 30stds out, felt drag for ~10stds then went away. RU wireline, Ran a 6.147"-gauge ring on junk basket, made 3 runs, first 2 runs recovered a few large pieces of rubber and several smaller pieces, metal shavings were significant. 3rd run had 4 small pieces of rubber and a small amount of metal shavings. Picked up the 3-1/8" CCL and ran to 3720'KB, showing top of seal assembly at 3696', all clear. TOH w/ wireline and RD. Picked up a 2-7/8" WLREG on a stainless steel 2-7/8" R nipple (1.78" ID), 4' sub, 7" x 2-7/8" AS-1X Packer with On/Off tool and a 2-7/8" F Nipple (1.81" ID) and RIH with retrieving head on 116 jts and 6' & 4' tbg subs (1jt below surface). No issues getting to depth, set packer (Depth details on next day's report). RU slickline and RIH w/ 1.81" plug. Set plug in F Nipple of on/off tool. Released from on/off tool. Loaded well w/ ~10bbls of water and pressure tested to 600psi, good. Reverse circulated wellbore to evacuate 14.5ppg mud w/ 150bbls of water. Shut down pump, 0psi on tbg and csg, no flows observed. Negative test is good. RD slickline, shut in well and SDON.

6/25/2023

SICP=2psi/SITP=0psi, BH= 0 psi. Bled off csg, no flow. LD 2ea tbg subs & 116jts of 2-7/8" work string. RU casing crew. Made up the retrieving head, 6' x 2-7/8" tbg sub, 2-7/8" X-Nipple (2.31" ID), 4' x 2-7/8" tbg sub, 2-7/8" x 4-1/2" Cross-Over and RIH on 87jts of 4-1/2", 11.6#, J55, LTC, IPC (Epoxy) Injection String. Engaged On/Off tool and measured out, stripped over 11" x 7-1/16" adapter & Washington head. Installed 4-1/2" x 11" hanger. Disengage from on/Off tool and pumped 75bbls of Packer fluid down csg, circulated up tbg. Engaged On/Off Tool and landed inj string on hanger w/ 25K compression. ND 11" BOPE, NU wellhead stack. Performed preliminary MIT to 600psi, held 30 minutes, good. Shut in well and SDON. Note: 4-1/2" x 2-7/8" X/O at 3670'KB, 2.31" ID X-Nipple at 3674'KB, 1.81" F Nipple (On/Off seal) at 3681'KB.

6/26/2023

SICP=320psi (had left 300psi on csg overnight after Pre-test)/SITP=0psi, BH= 0 psi. RU slickline under lubricator. RIH w/ spear to rupture pressure disc, held 1200psi on 4-1/2" while attempting rupture, no success. TOH w/ spear, changed tools, RIH and ruptured disc with 1200psi, pressure fell to 700psi. TOH w/ spear and RIH & retrieved plug from 1.81" F-nipple at 3681'. RD slickline. RD HWS #58.

6/27/2023

Tbg 1,000/Csg 0/BH 0 psig. On location with **OCD inspector Thomas Vermersch, performed MIT and passed.** Set up well to flow back to ensure the wellbore is clean. Flowed 280 bbls back, had some mud returns, cleaned up to normal injection fluid. SI tbg with 1,000 psig and noticed 1,000 psig on casing. Attempt to blow down csg, does not blow down under 800 psig, continues to flow. RU WSI to test tubing hanger and failed test. SI well, SDON.

6/28/2023

Tbg 1,000/Csg 1,000/BH 0 psig. RU WSI pump pack off into tbg hanger, attempt to blow down csg, csg continues to flow. RD WSI, RU Hurricane Rig #58 and slickline to set plug in 1.81" F nipple @ 3681' KB. Plug would not set, RU rig pump and pump plug into place. Blow down tbg to 0 psi, csg still flowing. RD slickline, start mixing mud. RU W/L and RIH w/ CCL and 3' perf gun loaded with 12 shots, 0.5" penetration, 0.33" diameter. Tag plug @ 3681.5' KB, identify x-over, 4' pup, and X nipple with CCL. Set top perf @ 3674' KB (being 1' into the 6' 2.875" pup). Pressure tbg to 800#, shot went off, tbg increased to 1,000#. SI well, RD wireline, continue to mix mud. SDON.

6/29/2023

Tbg 950/Csg 950/BH 0 psig. Mud at 14.2#, 34.5 vis. Circulate mud down csg, pumped 79 bbls to fill annulus. RU slickline, pull plug in F nipple, RD. Bullhead 60 bbls mud dwn tbg, check pressures and csg flowed 3 bbls. Bullhead additional 9 bbls to equalize well. NDWH, NU BOP, RU csg crew. Pull 50k to release packer. TOO H, LD 4.5" injection string. LD packer, some scaring on top seal. RU wireline, get on depth w/ stage tool @ 3252', set WRP, top @ 3681.5' KB. RD wireline, pressure test csg w/ 3.5 bbls mud to 1550 psig and held for 5 min. PU 2-7/8" work string and TIH. Secure well, SI and SDON.

6/30/2023

Tbg 0/Csg 0/BH 0 psig. TIH w/ double mule shoe, 2-7/8"x 4" changeover, 117 jts of 2-7/8", tag BP @ 3681.5' KB, circ 14# mud to pit over shale shaker (few tiny steel/rubber cuttings) circ fresh water, bottoms up + (clean no cuttings), test BP to 1500 psig, held, bled dwn, no flow, TOO H w/ 2-7/8" TBG, BHA, TIH w/ 6.25" taper mill/watermelon mill in tandem 116 jts 2-7/8" TBG, 1-4' and 1-6' 2-7/8" pup jts, tag BP @ 3681.5' KB, rig up swivel, reverse circ/rotate from 3680.5' up to 3617', circ bottoms up, LD swivel, secure well, SDFWE.

7/3/2023

Tbg 0/Csg 0/BH 0 psig. Reverse circ bottoms up. TOO H w/ 2-7/8" x 6' pup, 216 jts 2-7/8" tbg, WM mill, taper mill, TIH w/ retrieving head, 216 jts 2-7/8" tbg to 3673' KB, 9' over BP. Secure well, mix mud to 14.2 ppg, SDFN.

7/4/2023

Tbg 0/Csg 0/BH 0 psig. Circulate 14.2 ppg, 33 vis mud, well dead. Latch BP and TOO H w/ nothing latched. Dress retrieving head and TIH, latch and TOO H w/ BP loading csg w/ mud as tripping. PU 6" x 3.5" AS 1X Weatherford packer w/ 3-1/2" x 9.3# N-80 4.21' pup, 2.81" XN nipple (2.58" ID No-Go) 0.95', and wireline re-entry guide 0.48' on bottom. Packer is 7.75' long w/ seal nipple (2.81") and on/off tool on top. TIH w/ 116 jts, XO, and drain sub, **set packer at 3671.6' KB**, good set. Circulate mud out of well. Pressure test to 1,000# held good for 10 min, bled off and opened csg valve w/ no flow for 10 min. TOO H and LD tbg, xo, drain sub, setting tool. Secure location and SDFN.

7/5/2023

Csg 0/BH 0 psig. Swap out tbg spool. RU casing crew and PU 4-1/2", 11.6#, J55, LTC, IPC (Epoxy) Injection String TIH w/ seal nipple (2.81"), on/off tool, 3.5"x9.3#xN-80x4' pup, nipple, 3.5"x9.3#xN-80x4' pup, XO, 86 jts, 2' pup, 6' pup, 8' pup, 9' pup, 12' pup, string weight 28K. Circulate around packer fluid.

Land in hanger w/ 20k down. ND BOP, NU WH. RU slickline and pull plug in seal nipple. SI well, secure location and SDFN.

Note: Packer Config from bottom up: Wireline re-entry guide @ 3685.5' KB, 3-1/2" x 2.81" XN Nipple (2.58" No-Go) @3684.5' KB, 3-1/2" x 9.3# x N-80 x 8RND 4' Pup Jnt @3680' KB, 6.00" OD X 3 1/2" AS-1X Packer, RH/RH Top @ 3672' KB, Seal Nipple W/2.81" X Profile/T-2 ON /Off @3670' KB, 3-1/2" x 9.3# x N-80 x 8RND 4' Pup Jnt @3666' KB, 3-1/2" x 2.81" X Nipple @3665' KB, 3-1/2" x 9.3# x N-80 x 8RND 4' Pup Jnt @3661' KB, 3-1/2" EU Pin x 4-1/2" LTC Box XO @ 3660' KB.

7/6/2023

Tbg 900/Csg 0/BH 0 psig. **Monica with OCD onsite for BH test, MIT, and kills check - all passed.** RDMOL rig, flow back 300 bbls. Start back injection, see pressure/rate table.

Date/Time	WH PSIG	Annular PSIG	Rate
7/6/2023 12:50	900	0	
Start pump	1000	0	
7/6/2023 13:50	1160	125	
7/6/2023 14:50	1175	125	4457
7/6/2023 15:50	1275	125	
7/6/2023 16:50	1150	150	4506
7/6/2023 17:50	1200	150	
7/6/2023 18:50	1210	0	4421
7/6/2023 19:50	1200	0	
7/6/2023 20:50	1200	0	4503
7/6/2023 21:50	1200	0	
7/6/2023 22:50	1180	0	4548
7/6/2023 23:50	1200	0	
7/7/2023 0:50	1250	0	4521
7/7/2023 1:50	1250	0	
7/7/2023 2:50	1250	0	4548
7/7/2023 3:50	1250	0	
7/7/2023 4:50	1250	0	4621
7/7/2023 5:50	1250	0	
7/7/2023 6:50	SI		
7/7/2023 7:50	SI		
7/7/2023 8:50	SI		
7/7/2023 9:50	1020	0	
Start pump	1200	0	

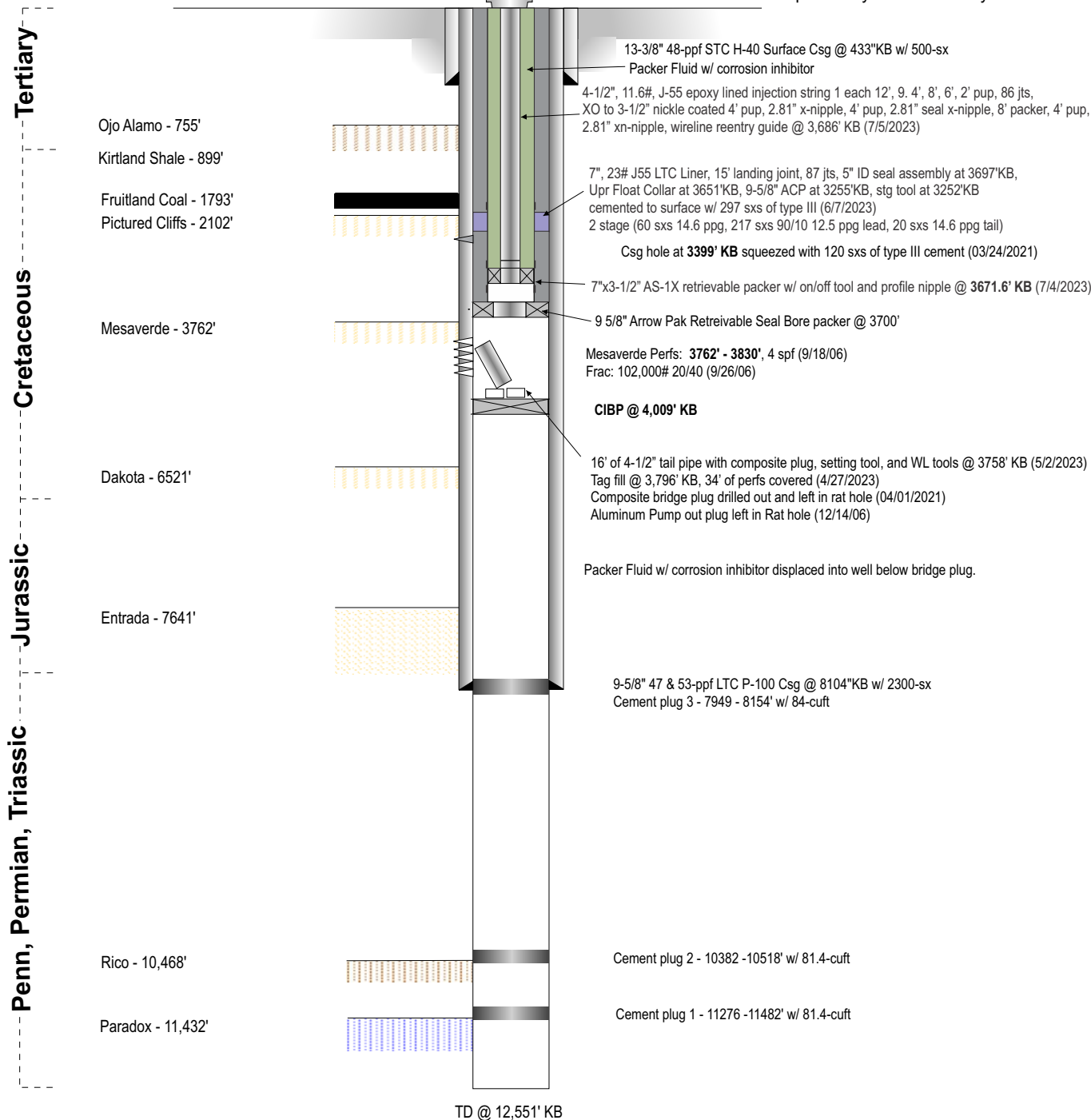
Agua Moss LLC Wellbore Schematic Pretty Lady 30-11-34 Current Wellbore Configuration

Location: 1760' fsl & 1475' fel (nw se)
 Sec 34, T30N, R11W, NMPM
 San Juan Co, New Mexico

Date: July 6th, 2023

Elevation: 5789' GL
 5802' RKB

Injection Zone: Mesaverde
 Prepared by: Connie Dinning
 Updated by: Shacie Murray



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Oil Conservation Division
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Santa Fe, NM 87505

COMMENTS

Action 258331

COMMENTS

Operator: AGUA MOSS, LLC P.O. Box 600 Farmington, NM 87499	OGRID: 247130
	Action Number: 258331
	Action Type: [C-103] Sub. Workover (C-103R)

COMMENTS

Created By	Comment	Comment Date
dmccure	Associated with Action ID: 211838	9/5/2023

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CONDITIONS

Action 258331

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	Action Number: 258331
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CONDITIONS

Created By	Condition	Condition Date
dmcclure	MITs shall be submitted separately as a C-103Z	9/5/2023