

**Snow Consulting & Services, Inc**

**808 CR 215**

**Parachute, Co 81635**

**Plugging Report**

**Underwood Ditch #5**

**November 3, 2021**

**Thru**

**December 14 , 2021**

## **Underwood Ditch #5**

November 3, 2021 Wednesday

Set skid over the well in Swamp. RU WL, ran 1-11/16' logging tool and pulled collar strip from 106'. PU and RIH with 2-3/8" tbg Tagged at 20' and stacked. Sucked water out of well head to 15'. Top of 7" had dropped approximately 15' Tagged and spudded bridge at 20' 120' and 2 or 3 bridges to 140. Circulated and spudded to 155' cleaned up returns with Vac truck. Circulated bottoms up. black nasty water in returns until fresh water circulated. Trace of gas with high concentrations of H2S gas. Laid down tbg. PU logging tools and pulled CBL from 155' to surface. Gas appeared to enter well bore at 106'. Sdfn.

November 4, 2021 Thursday

RIH with tbg to 155' broke circulation. Mixed and pumped 75 sks type 2 cement with 3% cacl-2 in last 40 sks to fill well with Cement to surface. POOH with tbg, Well started flowing out cement. RD equipment and moved off well. By end of day well had flowed back 2 to 3 bbls of cement and cutting water with the trace of gas.

November 9, 2021 Tuesday

Hauled in small tracked Drill rig. MI and set skid in swamp, Set up with Drill rig on lowbed trailer and backed in on opposite side of casing and RU to Drill. Picked returns with Vac truck. PU a 6-1/4" bit and drilled cement from surface to 25' using air, Appeared to hit steel and quit making hole. Sdfn.

November 10, 2021 Wednesday

POOH with 6-1/4" bit, PU 4-1/2 bit with Hammer drill and RIH, circulate with air, tagged and drilled out to 95'. POOH, land down Hammer. PU a 6-1/4 carbide mill and attempted to drill thru casing top at 2 to 3' for 3 hrs. Laid down mill and ordered 6-1/8" tools. Sdfn on well.

November 11, 2021 Thursday.

PU a 6-1/8" tapered window mill, Circulated with air, (5" to 6-1/8" OD) drilled thru casing top in 30 minutes, Tagged and drill on steel from 21 to 25', 9 hrs. pulled mill up to 20', sdfn.

November 12, 2021 Friday

Tagged, circulated with air, drilled thru tight spot at 25', Drilled to 59' Had one spot from 45' to 48' that took 2-3/4 hr to drill. Could not pull back thru tight spot at 28'. Left mill landed at 40' sdfn.

November 13, 2021 Saturday

RIH, drilled from 59' to 65' with 6-1/8" window mill. POOH. PU and RIH with 4-1/4" hammer bit with a joint of 2-3/8" tbg subbed in for length. RIH, tag at 85', washed 10' of fill and drilled to 106', added dish soap to foam water and circulate well clean. Stuck bit at 106' trying to continue drilling and had to back string to left ¼ turn to get loose. POOH with drill string. Lost 1 jt drill pipe and BHA in the hole. Kept tagging at 25'. RIH a plumb bob on 100' derrick tape and tagged at 65'. Stuck plumb bob at 28'. Left hanging in the well. Sdfn.

November 14, 2021 Sunday

Derrick tape was loose. Recovered plumb bob. RIH with 60' of 1" PVC and blew water out of well with air. Looked down hole with light and could see top of fish. RIH with drill pipe and was able to screw into fish and torque up. POOH with all tools, BHA. RD equipment And left well as is for the remainder of the weekend, will resume operations when rig is available.

November 18, 2021 Thursday

Pick up tbg and tag at 65', unable to spud thru bridge. Laid down tbg.

November 18, 2021 Friday

Excavated down 4' and caught soil samples

November 22, 2021 Monday

MI and set up Drill. RIH with 4-1/4" hammer bit and BHA, Tagged at 65' and cleaned out to 106' Drill string pulled hard from 95' to 65' Rotated and worked string up hole with air pressure trapped underneath bit. Pulled free at 65'. POOH, pick up 6-1/8" window mill, RIH and drilled from 65' to 70'. Sdfn.

November 23, 2021 Tuesday

Drilled from 70' to 94' had some problems with rig. Left EOT at 77' sdfn.

Resume operations on Sunday the 28<sup>th</sup> November.

November 28, 2021 Sunday

RIH with 6-1/8" window mill Tagged and drilled from 94' to 106' Pulled drill string, same problems as before, pulling tight, needed to rotate and keep well pressured up with air under mill to pull drill string. RU WL, RIH and tagged at 90'. RD WL. RIH with 2-3/8" tbg, Tag and circulated down to 105' with water. POOH with tbg. RU WL, RIH and tagged with gun at 104' Perforated with 48 JS, 96' to 104' POOH, RD wireline.

November 29, 2021 Monday

Tag at 100' with string line. PU packer cup, 2 joints 2-3/8" tbg and land cup at 64', RU vac truck to tbg, and pulled vacuum on tbg, water in annulus dropped. Added water and LCM to annulus and plugged off communications to tbg. PU, RIH with 1" pvc pipe and tagged packer cup at 64'. Mixed and pumped 15 sks cement with 5% cacl-2, annulus did not fill with cement. Started mixing 2<sup>nd</sup> batch of cement, annulus started flowing. Pulled 1" pipe, Pulled 2-3/8" tbg and cup. Pulling cup, swabbed cement out of hole for approximately 30'. Cleaned up around well head, Re-spotted equipment and RU to drill. Swapped out rig Motor. Tag top of cement in well bore at 24'. SDF night.

November 30, 2021 Tuesday

PU, RIH with 6-1/8" mill and drilled from 24' to 32' Pulled 6-1/8" mill, PU 4-1/14" hammer bit, RIH, tagged and drilled. Drill out of cement at 46'. RIH to 63'. POOH and laid down 4-1/14" bit. RIH with 6-1/8" mill and drill to 43'. POOH with mill. Run in tag line and tagged at 43'. RIH with 2 joints 2-3/8" tbg and cleaned out to 64' Ran tag line and tagged at 64'. Sdfn.

December 1, 2021 Wednesday

RU pump and circulated well clean from 64'. Pulled tbg and PU 7" packer cup. RIH and spaced out to 39'. (packer cup found a seal area from 36' to 40'. Pulled vacuum on tbg with vac truck. Annulus fluid level dropped 3' and stopped. RIH with 1" PVC, tagged packer cup. Mixed and spotted 11 sks cement with 5% cacl-2. Laid down PVC. Kept a vacuum pulled on the tbg for additional 1-1/2 hrs while cement set. Sdfn.

December 2, 2021 Thursday

Cement tag in annulus approximately 40" from surface. Checked well flow and measured rate at approximately 90 gal/hr. SI tbg for 2 hrs and pressure built to 88 psi. RU pump and injected 5 bbls water at 150 psi, 1 bpm. Isip 60 psi. Mixed and pumped 20 sks cement with 2.5% cacl-2 and SWI. Cement pressured to 175 psi and broke back after 1-1/4 bbls, pressured as high as 250 psi once and continued breaking and building pressure several times until final SD. Isip 50 psi. left well SI. RD equipment, excavated and hauled off 2 loads of Dirt to reclaim facility.

December 15, 2021 Tuesday

Arrive location, Loaded out 1 additional load of soil to go to reclaim. Check well for leaks and found none. Weld on dry hole marker plate and Back filled cellar. Cleaned up site and moved off equipment.

