

Confluence Resources
Cimarron-Penrod 2
05-001-08830
NESW 4-1S-65W
Re-entry P&A

Report date 7/29/2018

Operations date 7/28/2018

Day 1

Current status: Rig on well.

Summary: Locate well. Dig out surface csg. Weld on collar. Backfill. Road rig to location. MIRU. Spot pump and tank, support equipment. Spot shaker and solids tank. Lay lines. NU x-o, csg he, bop's, bird bath with washington head. Spot pipe. Very sandy. Equipment getting stuck. Dozer assistance. Start drilling. Very heavy mud.

24 hr forecast: Continue drilling out open hole.

7/17/18 Locate and dig out surface csg. Weld on 9 5/8" collar with 8 5/8" collar inside. Backfill.

6:00	13:00	Road rig to location. Spot base beam. MIRU Brigade Rig #7. Spot pump and 2 return tanks. Wait on dozer for shaker, solids tk. Spot pipe trailers. Very sandy. Equipment getting stuck. Lay lines.
13:00	15:30	NU 8 5/8" x 7" csg hd, bop's, bird bath, washington hd, floor. RU for tbg.
15:30	16:30	RU swivel. PU 6 1/8" cone bit, bit sub, 1-3 1/2" drill collar. Tag 10' in. Drag in shaker with dozer.
16:30	18:00	Est circ. 1.5 bpm. 100 psi. Hard drilling. 25'. 1st drill collar.
18:00	20:00	Drilled surface plug 40' long circulate hole
20:00	22:30	Wash down to 479'
22:30	23:00	Bit plugged off try to unplug no luck
23:00	0:00	POOH with 9 JTS and 6 DC
0:00	1:00	TIH with 6 DC ru swivel and try to circulate down bit plugged off
1:00	2:00	Try to unplug bit pumped reverse no luck did recover big chunks off dehydrated mud from TBG but unsuccessful
2:00	3:00	RD swivel and found TBG pressured up and flowing opened up to tank and bleed off, circulating pressure did not exceed 500 psi
3:00	3:30	POOH with DC and unplug bit
3:30	4:00	TIH with clean bit and 6 DC RU kelley hose and circulate at 3 DC and at 6 DC with fresh water
4:00	6:00	RU swivel and single in circulating fresh water every JT. Jt 1 224'

Report date 7/30/2018

Operations date 7/29/2018

Day 2

Current status: Rig on well.

Summary: Continue drilling open hole. Heavy mud. Slow drilling. Pipe sticky. Pipe stuck. Circulate clean. Work pipe free. Continue drilling open hole.

24 hr forecast: Continue drilling out open hole.

6:00 7:00 224'. Tbg jt #1. Wash, ream and condition hole. Circulate. Add fresh water and chemical.
7:00 9:15 256'. Jt #2. Wash, slt drilling down to jt #9. 480'. Slow. Circulate clean.
9:15 10:25 480'. Jt 10. Drill down. No issues. 2.5 bpm. 400 psi. 512'. 30 vis. Drop SAPP stick.
10:25 12:15 512'. Jt 11. Drill down. Very sticky for entire jt. Getting stuck. Circulating to free pipe.
Pump sweep. Add chemical to increase viscosity. Drill down. 543'. 33 vis. Drop SAPP stick
12:15 13:00 543'. Jt 12. Drill down. Circulate clean. 575'. 35 vis. Heavy cuttings each jt. Drop stick
Good returns. 3.0 bpm. 600 psi.
13:00 13:50 575'. Jt 13. Drill down. 606'. Drop stick.
13:50 14:30 606'. Jt 14. Drill down. 638'. Drop stick. 3.0 bpm. 600 psi.
14:30 16:00 638'. Jt 15. Drill down halfway. Very sticky. Hole sloughing. Losing fluid. Reduced returns.
16:00 17:30 Pipe stuck. Unable to rotate. Circulate. 3 bpm, 700 psi. 45 min. LD 1 jt. Swivel up.
Pull 30k#. Pipe worked free. Able to rotate. Swap rig pump. Circulate. 4 bpm, 350 psi.
17:30 18:00 638'. Jt 15 down. 670'. Circulate. Crew change.
18:00 20:00 Continue Circulate till water show up levels are low
20:00 23:00 MU JT 17 made 5' got sticky and pressure up got cleaned up, RU pressure gauge at goat stand
to monitor pressure better to prevent plugging off
23:00 2:00 MU JT 18 and wash down (1:15 clean out debris from pump) slow and easy to prevent plug off
2:00 3:30 MU JT 19 and wash down was able to make hole faster and not plug off
3:30 6:00 MU JT 20 and wash down to cement top @820' drill up cement. Lost 215 bw for day.

Report date 7/31/2018

Operations date 7/30/2018

Day 3

Current status: Rig on well.

Summary: Continue drilling out open hole. Heavy mud. Slow drilling. Pipe sticky. Stopped making hole. TOH. Bit balled. TIH. Stacked out. SIH. Continue drilling out open hole.
Stop making hole. TOH. Bit balled. TIH. Continue drilling out open hole.

24 hr forecast: Continue drilling out open hole.

6:00 6:15 820'. Jt #20. Drill/wash down. 4 bpm. 500 psi. Mud, slt cmt
6:15 8:00 829'. Jt 21. Drill/wash down. Add 1 sk SAPP and soap.
8:00 9:40 861'. Jt 22. Drill/wash down. Slow. Add 1 sk SAPP and soap.
9:40 11:45 893'. Jt 23. Drill/wash down. Slow. 42 Vis.
11:45 14:00 925'. Jt 24. Drill/wash down. Sticky. Pipe getting stuck. Stopped making hole.
14:00 15:30 952'. LD swivel. SOH/TOH w/tbg and DC. Bit balled up. Clean up bit.
15:30 16:15 Tih w/6 1/8" bit, 6-3 1/2" DC and 4 jts tbg. Stack out at 319'. LD tbg out of derrick.
16:15 16:45 Continue SIH w/20 jts tbg. Drop thru tight spot. Total 6 DC and 24 jts tbg. Tag same spot.
16:45 18:00 925'. Jt 24. Est circ. 4.0 bpm. 500 psi. Start drill/wash down.
18:00 22:30 957'. PU Jt 25. Drill to 989'. Lean mud weight back to 9.2 ppg, added 2 sks acid & 2 buckets soap
at 21:00
22:30 24:00 989'. PU Jt 26. Drill to 1020'.
24:00 1:15 1020'. PU jt 27. Drill to 1022'. Stopped making hole.

1:15 2:15 LD swivel. LD 10 jts tbg. TOOH to derrick, stand back DC's. Bit is balled up. Change bit to new 6-1/8".
 2:15 3:15 TIH w/6-1/8" bit, 6- 3-1/2" DC's, tag 5' in on jt 25 at 994'. Swivel up on jt 25. Break circ.
 3:15 3:30 Wash down jt 25 to 989'. Added 1 sk of acid and 1 sk of Sapp.
 3:30 4:00 989'. PU jt 26. Wash & drill down to 1020'. Visc at 34.
 4:00 6:00 1020'. PU jt 27. Drill to 1046'. Added 1 bucket of soap.

Report date 8/1/2018

Operations date 7/31/2018

Day 4

Current staus: Rig on well.

Summary: Continue drilling out open hole. Slow drilling.

24 hr forecast: Continue drilling out open hole.

6:00 7:00 1046'. Jt 27. Drill/wash down. Very slow. 4.0 bpm. 250 psi. Vis 34. 9.6 ppg
 7:00 8:15 1053'. Jt 28. Drill/wash down. Very slow. Gray, foamy returns. Losing water.
 8:15 10:45 1085'. Jt 29. Drill/wash down. Slow. Lost 150 bw for day. 1+ bpm. Wait on water
 30 min. Circulate.
 10:45 13:15 1117'. Jt 30. Drill/wash down. Slow. Losing water. 150 bw. 300 bw for day.
 Dump 1 sk acid, 1 sk SAPP, dropping 1 acid stick/connection. 27 vis, 8.6 ppg, 6.5 ph.
 Sawdust and crushed walnut shells on way.
 13:15 15:15 1148'. Jt 31. Drill/wash down. Slow. Losing water. .75-.50 bpm. 75 bw. 375 bw for day.
 27 vis, 8.6 ppg, 6.8 ph. Dump 1 sk acid.
 15:15 18:00 1177'. Jt 32. Drill/wash down. Slow. Losing .50 bpm water. 5' out.
 27 vis, 8.5 ppg, 6.3 ph. Pump 40 bbl pill. 12 sk sawdust, 2 sk crushed walnut shells.
 Walnut shell, mud returns. Monitor for fluid loss over next hr. 25 bbl. 400 bbl loss for day.
 18:00 19:15 1209'. Replace packing in swivel.
 19:15 21:00 1209'. PU jt 33. Drill to 1240'. Fluid loss 25 bbls water between 19:00 to 20:00. Sent 2 sks sawdust.
 21:00 22:15 1240'. PU jt 34. Drill to 1273'. Fluid loss at 25 bbls/hr. PH at 6.6.
 22:15 23:15 1273'. PU jt 35. Drill to 1304'. Fluid loss at 25 bbls/hr. Sent 2 sks saw dust & 2 qts soap.
 23:15 2:30 1304'. PU jt 36. Drill to 1334'. Visc at 27, 8.7 ppg, ph at 7.0. Added 2 sks acid. Added 2 sks walnut shells.
 Fluid loss down to 15 bbls/hr.
 2:30 6:00 1334'. PU jt 37. Drill to 1354, drilling has slowed'. Added 1 sk of Sapp & 2 qts soap at 4:30.
 550 bbls loss for day.

Report date 8/2/2018

Operations date 8/1/2018

Day 5

Current staus: Rig on well.

Summary: Continue drilling out open hole. Slow drilling. TOH for bit change. Service equipment.
 TIH w/jet style cone bit. Stack out high. Wash down. Continue drilling out open hole.
 Dump sawdust, walnut for water loss. Dump acid for ph control. Good penetration rate.

24 hr forecast: Continue drilling out open hole.

6:00 8:30 1354'. Jt #37. Very slow drilling. Down 1367'. Circulate.
8:30 9:30 1367'. RD swivel. LD 10 jts tbg. TOH w/27 jts tbg, 10 DC, bit. Bit worn out. Mud balling on bit not as bad.
9:30 11:15 Service equipment. Pump, swivel, sand pipe. Wait on bit.
11:15 12:30 PU new 6 1/8" jet style cone bit, x-o, 6-3 1/2" drill collars, 21 jts tbg. Stacked out at 860'. LD 12 jts out of derrick. 27 vis, 8.7 ppg, 7.2 ph. Dump 2 sx acid. 2 qts soap.
12:30 15:45 RU swivel. Start washing down at 734' jt #17. Wash down to 1367'. Jt #37. 27 vis, 9.0 ppg, 6.0 ph.
15:45 16:45 1367'. Jt #38. Drill down. Start losing water. 1.0 bpm. Transfer 105 bw. Dump 3 sx acid, 5# soap.
16:25 16:45 Dump 10 sx sawdust. Losing .5 bpm.
16:45 17:15 Dump 8 sx sawdust. 1 sk walnut.
17:15 18:40 1400'. Jt #39. Drill down. 1/2 down. Check pump manifold. Losing .5 bpm.
18:40 19:15 1432'. PU jt 40. Drill jt down to 1465'. Mud weight 8.6#, visc-28, ph 6.7
19:15 20:00 1465'. PU jt 41. Drill down to 1498'. Rig up 20 bbl sweep tank. Mix up polymer, acid and soap in tank.
20:00 20:45 1498'. PU jt 42. Drill down to 1531'. Mud at 9#. Visc 29, ph 6.7
20:45 21:35 1531'. PU jt 43. Drill down 1564'.
21:35 22:30 1564'. PU jt 44. Pumped 10 bbls sweep from sweep tank at 21:50. Drill jt down to 1595'. PH 7.2, mix in 2 sks acid at 22:15. Pump pressure 700 psi, 4 bpm rate.
22:30 23:20 1595'. PU jt 45. Drill to 1627'. Lost 10 bbls last hour. Mix 3 sks sawdust.
23:20 0:15 1627'. PU jt 46. Drill to 1658'. Sent 10 bbl poly sweep. Ph 6.9, Mud at 9#, visc 28.
0:15 1:05 1658'. PU jt 47. Drill to 1691'. Mix 1 sk acid in mud tank. Loss 10 bbls fluid last hr.
1:05 2:00 1691'. PU jt 48. Drill to 1722'.
2:00 3:00 1722'. PU jt 49. Drill to 1755'. Pumped 10 bbls poly and soap sweep.
3:00 3:50 1755'. PU jt 50. Drill to 1789'. Visc 31, mud 9.0, ph 7.2. added 2 sks acid.
3:50 4:35 1789'. PU jt 51. Drill to 1821'. Visc 33, mud 9.1, ph 6.0. Added 5 gallons polymer to mud system
4:35 5:35 1821'. PU jt 52. Drill to 1854'. Pumped 5 bbl poly & soap sweep. Pumping 4.5 bpm at 950 psi, 200 strokes/min/1700 rpm
5:35 6:00 1854'. PU jt 53. Drill to 1864' at 6:00 a.m.

Report date 8/3/2018

Operations date 8/2/2018

Day 6

Current status: Rig on well.

Summary: Continue drilling out open hole. Good penetration rate. Maintain mud system. Losing water. 5-30 bph.

24 hr forecast: Continue drilling out open hole.

6:00 6:50 1854'. Jt 53. Drill to 1887'. Vis 28, Mud 9.1, PH 7.0. Sent 5 bbl poly/soap sweep. Dump 2 sx citric acid.
6:50 7:50 1887'. Jt 54. Drill to 1921'. Drop stick. Losing 30 bph rate.

7:50 8:45 1921'. Jt 55. Drill to 1953'. Sent 5 bbl poly/soap sweep. Dump 8 sx sawdust. V 27, M 9.2, PH 5.5
8:45 9:30 1953'. Jt 56. Drill to 1985'. Water loss 10 bph. Add 90 bw to mud system. Dump 3 sx sawdust.
9:30 10:15 1985'. Jt 57. Drill to 2017'. Water loss 5 bph. V 26, M 9.0, PH 6.0. Sent 5 bbl poly/soap sweep.
10:15 11:15 2017'. Jt 58. Drill to 2048'. Water loss 10 bph. V 26, M 9.3, PH 6.1. Lost 75 bw for day. Add 50 bw to shaker.
11:15 12:00 2048'. Jt 59. Drill to 2081'. Water loss 10 bph. V 26, M 9.4, PH 7.1. Sent 5 bbl sweep. Dump 2 sx sawdust.
12:00 12:45 2081'. Jt 60. Drill to 2113'. Water loss 10 bph. Sent 5 bbl sweep. Dump 2 sx sawdust.
12:45 14:00 2113'. Jt 61. Drill to 2144'. Gained 15 bw. Sent 5 bbl sweep. Dump 2 sx acid. V 27, M 9.2, PH 7.1
14:00 15:15 2144'. Jt 62. Drill to 2177'. Lost 30 bph. Sent 5 bbl sweep. Dump 4 sx sawdust, 1 sk walnut shells. V 27, M 9.3, PH 6.3
15:15 16:35 2177'. Jt 63. Drill to 2210'. Lost 10 bph. Sent 5 bbl sweep. Dump 2 sx sawdust. V 26, M 9.3, PH 6.8. Last 2 jts slower.
16:35 17:25 2210'. Jt 64. Drill to 2242'. Lost 10 bph. Sent 5 bbl sweep. Dump 2 sx sawdust, 2 sx acid. V 27, M 9.4, PH 7.0. Faster.
17:25 18:00 2242'. Jt 65. Drill to 2260'.
18:00 18:25 2260'. Drill jt 65 to 2274'.
18:25 19:30 2274'. PU jt 66. Drill to 2307'. PH 6.0 visc 30.
19:30 20:30 2307. PU jt 67. Drill to 2340'. Lost 80 bbls fluid last hour. Added 7 bags of sawdust.
20:30 21:30 2340'. PU jt 68. Drill to 2372'. Lost 80 bbls last hr. Added 8 bags sawdust.
21:30 22:35 2372'. PU jt 69. Drill to 2405'. Lost 80 bbls last hr. Added 6 bags sawdust.
22:35 23:35 2405'. PU jt 70. Drill to 2436'. Lost 70 bbls last hr. Added 4 bags walnut.
23:35 0:35 2436'. PU jt 71. Drill to 2469'. Lost 80 bbls last hr. PH 7.2, mud 9.1#, Visc 30. Added 2 sks acid.
0:35 1:35 2469'. PU jt 72. Drill to 2502'. Lost 70 bbls last hr. Pumped 4 bags walnut. 4 bags sawdust.
1:35 2:50 2502'. PU jt 73. Drill to 2532'. Lost 75 bbls last hr. Pumped 4 sks walnut. PH 7.1, pumped 2 sks acid.
Pumped 4 bags walnut, 4 bag sawdust. Bucket polymer. PH 7.1, Visc 28, Mud 9#.
2:50 3:50 2532'. PU jt 74. Drill to 2565'. Lost 75 bbls last hr.
3:50 4:30 2565'. PU jt 75. Drill to 2577'. Lost 75 bbls last hr. Added 4 bags walnut, 4 bags sawdust. Mud 8.6#, PH 7, visc 28
4:30 5:00 At 4:00 added 4 bags walnut & 4 bags sawdust. Worked on pump/15 mins. Still have water flow back at 2 bbl/min to mud tank.
4:30 5:30 2577' Still jt 75, drill to 2597. We are sending a 5 bbl poly/soap sweep every connection.
5:30 6:00 2597'. PU jt 76. Drill to 2607 at 6:00 a.m.

Report date 8/4/2018
Operations date 8/3/2018
Day 7

Current staus: Rig on well.

Summary: Continue drilling out open hole. Losing water and gaining water. Maintain mud system.
COGCC permission to pump cement. Drill to 2766'. Circulate clean. RU Basic. Pump 50 sk plug.
SOH and LD tbg. Pump cmt plug across Foxhills. TOH/SOH. Pipe stuck. 888'. Work pipe.
Circulate well. Pipe stuck

24 hr forecast: Move off rig and support equipment. Cut and cap surface csg next week.

6:00 7:00 2607'. Jt 76. Drill to 2630'. 3.8 bpm. 700 psi. Lst 80 bw. Pump 5 bbl poly/soap sweep after every connection.
7:00 8:50 2630'. Jt 77. Drill to 2661. Lost 80 bw. Send sweep. Dump 2 sx citric acid, 1 sk walnut shells, 4 sx sawdust.
3.5 bpm at 600 psi. V 28, M8.7, PH 7.2
8:50 10:00 2661'. Jt 78. Drill to 2692'. Lost 80 bw. Send sweep.
10:00 11:30 2692'. Jt 79. Drill to 2725'. Gained 15 bw. Send sweep. V 25, M 8.5, PH 7.1

11:30 13:00 2725'. Jt 80. Drill to 2756'. Gained 15 bw. Send sweep. V 25, M 8.5, PH 6.5
13:00 14:30 2756'. Jt 81. Drill to 2766'. TD. Bad valve in pump. Switch pumps.
14:30 17:30 TD 2766'. EOT 2756' to circulate hole. 3.0 bpm. 500 psi. Move pipe periodically. Rotate pipe.
Pump sweeps. Wait on Basic.
17:30 18:00 Spot in Basic with dozer. Spot in water truck.
18:00 18:30 RU Basic. Hold safety meeting. Prime up pumps. Pressure test to 2500 psi. RD swivel. LD 1 jt. 80 jts in hole. EOT: 2756.
18:30 19:00 NU Basic to WH. Break circ. Mix and pump 50 sks, 10.2 bbls slurry, 15.8 ppg, 1.15 yield cement w/2% CaCl added. Pumped at 2 bpm.
Displaced with 14 bbls mud from mud tank. Had full returns. Shut down, break off. ETOC at 2597'.
19:00 20:30 Lay down 43 jts tbg to 1357'.
20:30 21:00 RU cementers on tbg for Fox Hills cement plug. Fox Hills formation was flowing back to mud tank at about 1 bpm.
Start job. Pumped 6.5 bbls fresh water ahead. Mix and pumped 265 sks, 54.3 bbls slurry, 15.8 ppg, 1.15 cmt w/2% CaCl added.
Displaced with 1.2 bbls water. Returns seemed to be full, getting mud and cuttings back. Shut down. Let well balance out.
Still seeing some slight returns up casing. Break off.
21:00 21:15 TOOH with 5 stands tbg to derrick. Lay down 5 more jts when tbg pulled tight at 888'. Casing again flowing water back to
mud tank at about 1.5 bbls/min. Tbg stuck with 22 jts tbg and 6 drill collars in hole minus 5' out on jt 22 at 888'.
21:15 1:00 PU/MU tbg swivel. RU rig pump to swivel. Break circulation with 1 bbl pumped at 500 psi, 3 bpm. Getting full returns.
Working pipe from 0 to 75K, up to 90K. No movment. No cement in returns. Getting shale cuttings and LCM (sawdust & walnut) back in returns.
Not losing or gaining volume in mud tank.
1:00 1:15 Pump 10 bbl poly/soap sweep.
1:15 2:30 Working pipe from 0 to 75K up to 80K. No movement. Pumping at 3 bpm, 500 psi.
2:30 2:45 RU to reverse circulate. Pumping at 3 bpm, 400 psi. Getting partial returns, losing fluid at 2.5 bpm loss. Shut down.
2:45 3:15 Swap back to pumping down tbg at 3 bpm 500 psi with full returns. No fluid loss.
Working pipe at 0 to 80K. No movment. No rotation in pipe. Stuck.
3:15 3:25 Shut pump down. Did a flow check. Well will flow back 2.5 bbls fluid in 10 mins.
3:25 6:00 Pump back on line pumping down tbg at 3 bpm, 500 psi with full returns. Still working pipe. No movement.

Report date 8/5/2018

Operations date 8/4/2018

Day 8

Current staus: Rig on well.

Summary: Pipe stuck. Work pipe. Circulate well. COGCC permission to cut pipe. Pump 2 - 350' cmt plugs.
RU KLX WL. Jet cut pipe at 687'. LD 1 jt. Pipe free. RD WL. RU Basic. Pump 100 sk plug. SOH and
LD tbg. Good cut. WOC 4 hrs. Tag cmt. Pump 215 sk plug from 498' to surface. SOH and LD tbg.
No cmt to surface. SD

24 hr forecast: Tag with sand line on Sunday. Monday. SIH w/tbg. Pump cmt plug(s) to surface. Move off rig and support equipment.
Cut and cap surface csg.

6:00 8:00 Pipe stuck. Circulate hole. 3.0 bpm 500 psi. Work pipe.
8:00 10:15 Flow check. SD pump. SI suction. Gained 1 bbl in 1 hr up annulus.
10:15 11:30 RU KLX WL. RIH w/2.063 jet cutter. Circulate hole. Tag x-o 697'. Cut 2 7/8" tbg at 687'.
POH. Cutter looks good. PU on tbg. Tbg free. LD 1 jt. RD KLX. EOT: 660'.
11:30 12:15 Spot in and RU Basic. Hold safety meeting. Prime pumps. Pressure test to 2500 psi. NU Basic to WH.

12:15 12:35 Break circ. Mix and pump 100 sks, 20.5 bbls slurry, 15.8 ppg, 1.15 yield cement w/3% CaCl added. Pumped at 2 bpm. Displace with 2.9 bw. Wash up lines.

12:35 13:15 ND Basic. SOH and LD 20 jts plus cutoff jt-21.72'. 21 jts total. Good cut.

13:15 16:15 WOC. Prep for rig move.

16:15 16:30 TIH w/4' bull plugged 2-7/8"perf sub, 15 jts tbg, tagged cement top 24' in on jt 16 at 506'.

16:30 16:50 LD jt 16, add 10' & 6' tbg pups. EOT set at 498'.

16:50 17:30 RU Basic cementers on tbg. Break circ. Mix and pump 215 sks, 44.1 bbls slurry, 15.8 ppg, 1.15 yield cement. Pumped at 2 bpm. Had full returns throughout job. Displace with 1.3 bbls water. Wash up lines. No cement returns to surface.

17:30 18:00 TOOH, lay down tbg. SWI. SDFN.

8/5/18 RIH w/sinker bar on sand line. Tag cmt at 340'. POH. SI well.

Report date 8/7/2018

Operations date 8/6/2018

Day 9

Current status: Well P&A'd

Summary: SIH w/tbg. Pump 139 sx cmt. Cmt from 340' to surface. SOH w/tbg. Csg standing full.

RD Brigade rig and supporting equipment.

Dig out wellhead. Cut off 8 5/8" surface csg 6' below ground level. Weld on steel plate cap with label. Obtain lat/long. Backfill. Job complete. Final report.

24 hr forecast: Well P&A'd

5:00 6:45 Road crew to location. Warm up equipment. Hold safety meeting. CP: 0. SIH w/NC, 10 jts 2 7/8" tbg and 1-10' tbg sub. EOT: 334'. TOC: 340'.

6:45 8:15 Spot in and RU O-Tex Cementing with dozer. Very sandy. RU to WH. Hold safety mtg. Pressure test lines to 1500 psi.

8:15 8:45 Brk circ. 2 bpm - 100 psi. Hole full. Mix and pump 139 sx Type III 14.8 ppg cmt with 1 1/2 % calcium chloride. 35 bbls slurry. 1.33 yield. Good returns. 115 sx to cmt. 24 sx more to good cmt to surface. SD.

8:45 9:00 ND O-Tex. SOH and LD tbg sub and 10 jts tbg.

9:00 10:00 ND floor, bird bath w/wash hd, bop's and csg hd. Top off csg w/6 sx cmt. Csg standing full. 4" fallback in 10 min.

10:00 11:00 RD O-Tex. RD Brigade and support equipment. Move to Helen Penrod #1 with dozer.

12:00 Dig out wellhead. Cut off 8 5/8" surface csg 6' below ground level. Weld on steel plate cap with label. Obtain lat/long. Backfill. Job complete. Final report.