

Confluence Resources  
UPRR 13-15  
05-123-09341  
SWSW 15-4N-63W  
Re-entry P&A

Report date 8/11/2018

Operations date 8/10/2018

Day 1

Current status: Rig on well.

Summary: Locate well. Dig out surface csg. Weld on collar. Backfill. Road rig to location. Spot beam. MIRU. Spot pump and tk and support equip. Spot shaker and solids tank. Lay lines. NU x-o, csg hd, bop's, bird bath with washington head. Spot pipe. Start drilling. Losing returns. SOH.

24 hr forecast: Pump cement plug to heal sand zone.

8/9/18 Locate and dig out surface csg. Weld on 8 5/8" collar with extension to surface. Backfill.  
6:00 13:00 Road rig to location. Level loc. Spot base beam. MIRU Brigade Rig #7. Spot pump and 2 return tanks. Spot shaker, solids tk, frac tk. Spot pipe trailers. Lay lines.  
13:00 16:00 NU 8 5/8" csg hd, bop's, bird bath, washington hd, floor. RU for tbg.  
16:00 18:00 Tally drill collars. PU 6 3/4" tri-cone jet bit, bit sub and 2-3 1/2" drill collars. Tag at 42'. Crew change.  
18:00 19:30 PU swivel. Break circulation at 2.5 bpm. Drill out cement from 42' to 52'. Fell out of cement.  
19:30 20:30 Shut in casing. Attempt to pressure test with no success. Was able to pump into at 2.5 bpm at 380 psi. Pumped away 47 bbls water. LD swivel.  
20:30 22:00 TIH with tbg, tagged down at 170' soft. Break circ, wash down without rotation to 190', no tag. Circulate hole clean here, lost 20 bbls water in 45 mins.  
22:00 23:00 LD 4 jts tbg to DC's. PU 4 more DC's ( 6 total at 186'). TIH 4 jts tbg tag at 291'.  
23:00 23:30 PU swivel. Break circulation at 2.5 bpm. Full returns here, TIH w/jt 5 tag bridge at 344'.  
23:30 23:45 Wash thru bridge. PU jt 6. Wash down to 376'.  
23:45 1:00 376'. PU jt 7, tag up hard (cement) with 10' in at 386'. Lost all returns. Pumping at 3.0 bpm 0 psi. Added 8 bags cotton, 6 bags sawdust, 6 bags walnut. Still no returns. Lost 400 bbls water.  
1:00 2:30 Regain returns. Bringing back our LCM that we added. Pumping 3 bpm, 250 psi. Lost 20 bbls last hr.  
2:30 3:00 Stop here, shut casing in and perform a pump in test. Pumped in well at 2 bpm at 280 psi. Pumped away 10 bbls.  
3:00 4:00 Break circulation again with small pump. Pumping 2.5 bpm 250 psi. Monitor fluid loss. Lost 30 bbls last hr.  
4:00 4:30 Circulate hole clean here, lost 32 bbls water in 30 mins.  
4:30 5:00 Circulate 30 mins, lost 30 more bbls water.  
5:00 6:00 Rack swivel back. LD 7 jts tbg & 6 DC's.

Report date 8/12/2018

Operations date 8/11/2018

Day 2

Current status: Rig on well.

Summary: Wait on cementers. SIH w/tbg. Pump 100 sx cmt. SOH w/tbg. ND bop's. Pump 100 sx cmt. Displace with water. WOC. SIH w/bit, drill collars and tbg. Tag. Start drilling. Drill cement.

24 hr forecast: Drill cement. Continue drilling out open hole.

6:00 10:30 Wait on cementers.  
10:30 11:00 SIH w/notched collar, 12 jts 2 7/8" tbg. Tag at 384'. EOT: 381'. Circulate well. 40 bph loss.  
11:00 12:00 Spot in and RU O-Tex Cementing. Hold safety meeting. Pressure test to 1500 psi.  
12:00 13:00 SD circ. RU O-Tex to WH. Est circ. 1.8 bpm, 50 psi. Pump 10 bbls CaCl2, 3 bbls fresh, 10 bbls SMS, 3 bbls fresh, 100 sx 13.5 ppg, CSC Type III cmt w/additives, 1/4# Phenoseal.  
13:00 13:30 ND O-Tex. SOH and LD 12 jts tbg and NC. ND bop's and csg hd. NU 8 5/8" x 2" x-o on csg.  
13:30 14:15 Mix and pump down 8 5/8" csg 100 sx 13.5 ppg, CSC Type III cmt w/additives, 1/4# Phenoseal. 1.6-1.2 bpm, 50-95 psi. SD. 50 psi. Pump 3 bbls displacement. .5 bpm, 3 psi. SD. 15 psi. SI well. 50% returns throughout entire job.  
14:15 15:15 Wash up O-Tex. RD.  
15:15 18:00 WOC.  
18:00 21:00 Open up surface casing valve at 18:00. Had a very slight vac. Remove 8-5/8" cement valve. NU BOP & RU rig floor and tools. PU swivel with 6-3/4" tri-cone bit and DC. Still WOC.  
21:00 21:30 Tag up cement at 34' from surface. Break circulation. Rotate down to 63'. Cement very green and mushy. Circ hole clean. PUH with bit above tag depth.  
21:30 0:00 WOC.  
0:00 1:00 PU DC #3. Break circ. Rotate down to 92'. Cement still very green. Returns very mushy cement. Circ clean.  
1:00 4:00 WOC.

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4:00 5:00 PU DC #4. Break circ. Rotate down to 124'. Cement still very green. Returns very mushy cement. Circ clean.  
On the end of circulating clean, we have signs of the coarse water sand coming across the shaker.  
5:00 6:00 WOC. Will shut down daylight ops to let cement set longer. Start back up this evening at 18:00.

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Day 3

Current status: Rig on well.

Summary: WOC. No day crew. Resume drilling at 18:00. Drill cement.

24 hr forecast: Drill cement. Continue drilling out open hole.

6:00 18:00 Depth 124'. WOC. No day work.  
18:00 18:30 With blind rams, pressure test 8-5/8" casing to 300 psi. Good test.  
18:30 19:30 PU 6 3/4" tri-cone bit and 4-3 1/2" drill collars. Tag up at 124' with DC #4.  
PU DC #5. Break circ, drill out very soft mushy cement to 155'. Circ clean. Test casing to 300 psi w/good test.  
19:30 20:00 PU DC #6. Break circ, drill out very soft mushy cement to 186', 8' below shoe. . Circ clean.  
Attempt to pressure test to 200 psi. No test. Would bleed from 200 to 75 in 1 min.  
20:00 20:30 PU Jt #1. Drill cement to 217'. Lost 7 bbls water last hr.  
20:30 20:45 PU Jt #2. Drill cement to 249'.  
20:45 21:20 PU Jt #3. Drill cement to 281'.  
21:20 22:15 PU Jt #4. Drill cement to 312'. PH at 12.0, Visc 28. Added 3 bags acid.  
22:15 11:45 Jt #5. Drill cement to 344'. With jt 5 down, bit started bad bit bounce & stopped drilling.  
Ran heavy soap & Sapp sweep. Did not help. Lay swivel down.  
11:45 0:15 TOOH. Bit is good. Change bit to short tooth tri-cone.  
0:15 1:00 TIH with 6-3/4" short tooth tri-cone, 6 DC's & 5 jts tbg to 344'. PU swivel.  
1:00 2:50 PU Jt #6. Break Circulation. Drill cement to 376'. Very hard cement. PH 11, mud at 8.6#. Added 4 bags acid  
2:50 4:20 PU Jt #7. Drill out O-Tex cement to 386', drill old P&A cement to 407'. Hard drilling.  
4:20 6:00 PU Jt #8. Drill cement to 430' at 6:00. Mud 9.0 ppg, Visc 28, pH 11.9.  
Added 5 bags acid, 1 bucket drilling soap to mud system.

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Day 4

Current status: Rig on well.

Summary: Drilling hard cement. TOH for bit change. TIH.  
Drill out open hole.

24 hr forecast: Continue drilling out open hole.

6:00 6:20 430'. Jt #8. Drill to 439'. Hard drilling. Cmt returns. No fluid loss.  
6:20 8:20 439'. Jt #9. Drill to 471'. Hard drilling. Cmt returns. No fluid loss.  
8:20 10:30 471'. Jt #10. Drill to 503'. Hard drilling. Cmt returns. No fluid loss.  
10:30 12:30 503'. Jt #11. Drill to 535'. Hard drilling. Cmt returns. No fluid loss. V 31, M 9.3, pH 11.8  
12:30 14:00 535'. Jt #12. Drill to 567'. Hard drilling. Cmt returns. No fluid loss. Dump 2 sx acid. V 31, M 9.4, pH 11.8  
14:00 15:50 567'. Jt #13. Drill to 599'. Hard drilling. Cmt returns. No fluid loss. V 31, M 9.5, pH 11.6  
15:50 17:30 599'. Jt #14. Drill to 631'. Sity faster drilling. Cmt/mud returns. No fluid loss. Add soap.  
Dump 2 sx acid. Pump 5 bbl Poly/Soap sweep.  
17:30 18:00 631'. Jt #15. Drill to 645'.  
18:00 19:15 Finish drilling Jt 15 down to 663'. Circ clean. Prep for bit trip.  
19:15 21:30 TOOH with bit, bit was balled up with hard packed mud. PU 6-3/4" jetted bit, TIH with 7 DC's & 14 jts tbg,  
tagged at same drill depth at 663'. Have 7 DC's in the hole now. PU Jt 15 again.  
21:30 22:20 633'. PU Jt #15. Drill to 693'. Added 2 buckets polymer to mud system. 2 sks Sapp, 2 gals soap.  
22:20 23:15 693'. PU Jt #16. Drill to 725'. Mud at 9.5, pH 11.6, Visc 30.  
23:15 23:50 725'. PU Jt #17. Drill to 756'. Mud at 9.5. No fluid loss.  
23:50 2:00 756'. PU Jt #18. Drill to 788'. Mud 8.9, 4 bags acid. Pen rate slowed down due to hard mud,  
Pumped 5 bbl soap & Sapp sweep. Added soap to mud system.  
2:00 3:00 788'. PU Jt #19. Drill to 819'. No fluid loss.  
3:00 3:50 819'. PU Jt #20. Drill to 852'. pH 11.0, Visc 43, Mud 8.7  
3:50 4:50 852'. PU Jt #21. Drill to 884'. Added 3 bags acid. Added soap to mud system.  
4:50 6:00 884'. PU Jt#22. Drill to 900' at 6:00. pH 10.9, Mud 8.8 Visc 43. No fluid loss.

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Day 5

Current status: Rig on well.

Summary: Drilling out open hole. Pump sweeps.  
Drill out open hole.

24 hr forecast: Continue drilling out open hole.

6:00	6:30	900'. Jt #22. Drill to 916'. Mud returns. No fluid loss. Pump sweep. Add 5# soap every connection.
6:30	8:05	916'. Jt #23. Drill to 949'. Same. Pump 5 bbl SAPP/soap sweep. V 90, M 9.3, pH 11.6. Pull 80 bbls from mud system.
8:05	9:15	949'. Jt #24. Drill to 981'. Same. Pump sweep. V 39, M 8.3, pH 11.0
9:15	10:10	981'. Jt #25. Drill to 1013'. Same. Pump sweep
10:10	11:00	1013'. Jt #26. Drill to 1044'. Same. V 35, M 8.2, pH 11.2
11:00	11:55	1044'. Jt #27. Drill to 1076'. Same. Pump sweep.
11:55	12:40	1076'. Jt #28. Drill to 1108'. Same. Pump sweep.
12:40	13:45	1108'. Jt #29. Drill to 1139'. Same. Pump sweep. V 35, M 8.3, pH 11.2
13:45	14:45	1139'. Jt #30. Drill to 1171'. Same. Pump sweep.
14:45	15:30	1171'. Jt #31. Drill to 1203'. Same. Pump sweep. Pull 40 bbls from mud system.
15:30	16:30	1203'. Jt #32. Drill to 1234'. Same. Pump sweep.
16:30	17:30	1234'. Jt #33. Drill to 1267'. Same. Pump sweep. V 35, M 8.3, pH 11.2
17:30	18:00	1267'. Jt #34. Drill to 1298'. ROP getting better. Pump sweep
18:00	19:00	1298'. Jt #35. Drill to 1329'. Pump sweep.
19:00	20:05	1329'. Jt #36. Drill to 1361'. Sweep.
20:05	21:05	1361'. Jt #37. Drill to 1392'. Sweep. Visc 39, pH 10.9, Mud 8.4
21:05	22:00	1392'. Jt #38. Drill to 1425'. Sweep.
22:00	22:55	1425'. Jt #39. Drill to 1457'. Sapp, soap, Poly sweep.
22:55	0:00	1457'. Jt #40. Drill to 1490'. Sapp, soap, Poly sweep.
0:00	0:55	1490'. Jt #41. Drill to 1521'. Sapp, soap, Poly sweep. pH 10.8, Mud 9.6, Visc 32
0:55	2:00	1521'. Jt #42. Drill to 1553'. Sapp, soap, Poly sweep.
2:00	3:15	1553'. Jt #43. Drill to 1585'. Sapp, soap, Poly sweep. pH 10.8, Mud 9.3, Visc 33
3:15	4:30	1585'. Jt #44. Drill to 1616'. Sapp, soap, Poly sweep.
4:30	6:00	1616'. Jt #45. Drill to 1648'. Sapp, soap, poly sweep. pH 10.8, Mud 9.2, Visc 31.

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Day 6

Current status: Rig on well.

Summary: Drilling out open hole. Pump sweeps.  
Drill out open hole.

24 hr forecast: Continue drilling out open hole.

6:00	7:10	1648'. Jt #46. Drill to 1680'. 5 bbl SAPP, soap, Poly sweep. V 35, M 9.6, pH 10.6
7:10	8:20	1680'. Jt #47. Drill to 1712'. 5 bbl SAPP, soap, Poly sweep.
8:20	9:40	1712'. Jt #48. Drill to 1744'. 5 bbl SAPP, soap, Poly sweep. Transfer 30 bbls fresh.
9:40	11:30	1744'. Jt #49. Drill to 1775'. 5 bbl SAPP, soap, Poly sweep. V 36, M 10.0, pH 10.2
11:30	13:20	1775'. Jt #50. Drill to 1807'. 5 bbl SAPP, soap, Poly sweep. Dump 2 sx acid. 2 gals soap.
13:20	15:15	1807'. Jt #51. Drill to 1839'. 5 bbl SAPP, soap, Poly sweep. Transfer 30 bbls mud. V 35, M 10.0, PH 8.7
15:15	17:00	1839'. Jt #52. Drill to 1870'. 5 bbls SAPP, soap, Poly sweep. Transfer 30 bbls fresh. Dump 2 gals soap.
17:00	18:00	1870'. Jt #53. Drill to 1885' at 18:00. Crew change.
18:00	19:00	1885'. Jt #53. Drill to 1885 5 bbl SAPP, soap, Poly sweep. Dump 2 sx acid. 2 gals soap.
19:00	0:00	Circulate sweep around to surface and work pipe up and down
0:00	1:30	RD swivel and POOH with drilling BHA LD 7 collars and 6-3/4" bit
1:30	2:30	TIH with 50 JTS to put EOT @ 1592' and RU swivel
2:00	6:00	Pump sweep and circulate and work pipe

Report date 8/17/2018

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Day 7

Current status: Well P&A'd

Summary: Circulate hole. RU SLB cementers. Pump cmt plug. WOC. Tag. Pump final cmt plug

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to surface. SOH. ND. Top off with cmt. RD. Job complete.

24 hr forecast: Road equipment to yard. Dig out csg. Cut and cap csg. Backfill. Clean up location. Final report.

6:00	7:00	Circulate hole. End of tbg set at 1592'.
7:00	8:30	MIRU Schlumberger Cementers. Held pre-job safety meeting, JSA. Mix & pump 221 sks, 45.6 bbls 15.8 ppg, 1.16 yield cement. Displace with 5 bbls water. Shut down, break off. Cement balanced.
8:30	9:00	TOOH std back 8 stds. Lay down 34 jts tbg bit sub & bit. SWI. WOC.
9:00	12:00	WOC.
12:00	12:30	TIH 8 stds from derrick, tag hard cement 15' in on jt 17 at 525'. Lay down 6 jts tbg to EOT at 350'
12:30	13:15	RU cementers. Mix & pump 96.3 sks, 19.9 bbls, 15.8 ppg, 1.16 yield cement. Pump until cement back to surface. Displace w/ 1 bbl water. Break off, cement balanced.
13:15	13:45	ND BOP & WH. Top off casing with .85 bbls cement. RD cementers.
13:45	16:00	RD service rig. Rack out iron. Ready to move rig out in the morning.

8/17/2018 Road rig, pumps and tanks to yard. Bottom out tanks. Clean up location.

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.