Well Name	Federal Weld #1	Rig Name/Number	Ensign #318
County	Weld	Location (Sec-T-R)	Lat 40.675030 Long -104.083914
State	CO	Supervisor	Gary Chandler
AFE #		Engineer	Elizabeth Kane

Date: 11/14/2018 Rig Day 1

Daily Operations Summary

Detail Operations Summary

Begin	*End*	*Downtime*	*Description of Events*
14:00	16:00		MIRU Ensign Rig #318 and support equipment.
16:00	18:30		NUWH. NUBOP's. RU Pro Mud mixing tank. SWI. SDFN.

Well Name	Federal Weld #1	Rig Name/Number	Ensign #318
County	Weld	Location (Sec-T-R)	Lat 40.675030 Long -104.083914
State	CO	Supervisor	Gary Chandler
AFE #		Engineer	Elizabeth Kane

Date: 11/15/2018 Rig Day 2

Daily Operations Summary

Detail Operations Summary

Begin	*End*	*Downtime*	*Description of Events*
6:00	6:30		Hold Safety Meeting and perform JSA with all personnel on location.
6:30			Transfer fresh water from tank. Star mixing 50 bbls Mud. Change out to 3-1/2" BOP Rams. RU pump and
	14:00		lines. Set up pipe racks. Load and tally 10 3-1/2" Drill Collars. RU Power Swivel. RU Washington Head.
14:00			Start drilling on cement at 5' from surface to 11' and fell through cement. Lost circulaion for 20 bbls..
			Regain circulation and swivel in with 6.5" Rock Bit, Bit Sub with String Float, and 10 3-1/2" Drill Collars to
	16:00		305'.
16:00	17:30		Mix 50 bbls Mud while circulating and racking out, tallying, 2-7/8" 6.5# tbg.
17:30			Change over BOP Rams and slips to 2-7/8" tbg. TIH with BHA and 1 jt 2-7/8" 6.5 # tbg to 337'. Circulte hole
	18:30		clean. Drain up pump and lines. SWI. SDFN.

BISON OIL & GAS II

Well Name	Federal Weld #1	Rig Name/Number	Ensign #318
County	Weld	Location (Sec-T-R)	Lat 40.675030 Long -104.083914
State	CO	Supervisor	Gary Chandler
AFE #		Engineer	Elizabeth Kane

Date: 11/16/2018 Rig Day 3

Daily Operations Summary

Detail Operations Summary

Begin	*End*	*Downtime*	*Description of Events*
6:00	6:30		Hold Safety Meeting and perform JSA with all personnel on location.
6:30			RU Pump and lines. Break circulation at 337'. Swivel, wash, drill, and circulate from 337' with a total of
			BHA and 60 jts 2-7/8" 6.5# tbg to 2268'. Have partial circulation.Mixed 6 sks cotton, 4 sks sawdust, and
	18:00		4 bags cedar fiber to re-gain circulation pumping 2 bpm at 300#. Circulate hole clean.
18:00	20:30		RD swivel. TOOH standing back to derrick with 60 jts 2-7/8" 6.5# tbg, 10 3-1/2 Drill Colars and LD BHA.
20:30	21:30		TIH with stands and lay down 10 bad jts from derrick. SWI. Drain up pump and lines. SDFN.

Well Name	Federal Weld #1	Rig Name/Number	Ensign #318
County	Weld	Location (Sec-T-R)	Lat 40.675030 Long -104.083914
State	CO	Supervisor	Gary Chandler
AFE #		Engineer	Elizabeth Kane

Date: 11/17/2018 Rig Day 4

Daily Operations Summary

Detail Operations Summary

Begin	*End*	*Downtime*	*Description of Events*
6:00	6:30		Hold Safety Meeting and perform JSA with all personnel on location.
6:30	8:45		RU pump and lines. Change out slip dies.
8:45	10:45		TIH with 2-7/8" Notched Collar and 70 jts 2-7/8" 6.5 tbg to 2282'. RU stripper rubber.
10:45	11:15		RU and break circulation pumping down tbg and up csg at 3.5 bpm at 100#.
11:15	12:30		TIH 70 jts 2-7/8" 6.5 tbg to 2282'. Break circulation. Circulate hole clean.
12:30	14:00		TIH with 90 jts 2-7/8" 6.5# tbg to 2936'. Break circulation. Circulate hole clean.
14:00	15:45		TIH with 126 jts 2-7/8" 6.5# tbg to 4106'. Break circulation. Circulate hole clean.
15:45	18:30		TIH with 161 jts 2-7/8" 6.5# tbg to 5237'. Break circulation. Circulate hole clean.
18:30	21:00		TOOH standing back to derrick with 160 jts 2-7/8" 6.5# tbg. Lay down I jt tbg. SWI. Drain up pump and lines.
			SDFN.

Well Name	Federal Weld #1	Rig Name/Number	Ensign #318
County	Weld	Location (Sec-T-R)	Lat 40.675030 Long -104.083914
State	CO	Supervisor	Gary Chandler
AFE #		Engineer	Elizabeth Kane

Date: 11/26/2018 Rig Day 5

Daily Operations Summary

Detail Operations Summary

Begin	*End*	*Downtime*	*Description of Events*
6:30	7:00		Hold Safety Meeting and perform JSA with all personnel on location.
7:00	10:15		Start up heaters and wrap tarps around BOP's. RU pump and lines. Thaw out Fluid Pro Mud Tank.
10:30	11:30		E3 Soltions haul off mud. RU stripper rubber. IH with 2-7/8" Notched Collar and 28 jts 2-7/8" 6.5 tbg to 911'.
11:30	13:00		Condition Mud. Break circulation with 15 bbl 9.0# mud. Circulate hole clean.
13:00	16:00		TIH with 160 jts 2-7/8" 6.5 tbg to 5205'.
16:00	18:30		Break circulation. Circulate hole clean.
18:30	20:00		TOOH standing back to derrick with 30 jts 2-7/8" 6.5# tbg to 3913'. SWI. Drain up pump and lines. SDFN

Well Name	Federal Weld #1	Rig Name/Number	Ensign #318
County	Weld	Location (Sec-T-R)	Lat 40.675030 Long -104.083914
State	CO	Supervisor	Gary Chandler
AFE #		Engineer	Elizabeth Kane

Date: 11/27/2018 Rig Day 6

Daily Operations Summary

Detail Operations Summary

Begin	*End*	*Downtime*	*Description of Events*
6:00	6:30		Hold Safety Meeting and perform JSA with all personnel on location.
6:30	7:30		Rig up pump and lines.
7:30	9:30		TIH with 160 jts 2-7/8" 6.5 tbg from derrick and 40 jts 2-7/8" 6.5# tbg off racks to 6502'.
9:30	13:00		Break circulation. Circulate hole clean.
13:00	14:00		Lost circulation. Mixed up 6 bags gell, 4 sks cotton, 4 sks sawdust, 4 bags cedar fiber while working pipe.
14:00	15:30		TIH with 9 jts 2-7/8" 6.5 tbg off racks with a total of 209 jts + 18' 2-7/8" 6.5# tbg to 6818'. Lay down 9 jts to
15:30	16:00		6502'. MIRU Basic Cementers. Hold Safety Meeting and perform JSA with all personnel on location.
16:00	18:00		Test pump and lines to 2500#. Pump 10 bbl water spacer, followed by 46.1 bbls class "G" Cement at 15.8#,
			1.1 bbl water spcer, displaced with 31.9 bbls 9.6# mud. Shut down pumping. ETOC at 5737'.
18:00	19:15		TOOH laying down 26 jts 2-7/8" 6.5# tbg to 5658'. RU Basic and pump down tbg with 10 bbls 9.6# mud.
19:15	20:00		TOOH standing back to derrick with 52 jts 2-7/8" 6.6# tbg to3975. SWI. Wash up Basic. Drain up pump and
			lines. SDFN.

Well Name	Federal Weld #1	Rig Name/Number	Ensign #318
County	Weld	Location (Sec-T-R)	Lat 40.675030 Long -104.083914
State	CO	Supervisor	Gary Chandler
AFE #		Engineer	Elizabeth Kane

Date: 11/28/2018 Rig Day 7

Daily Operations Summary

Detail Operations Summary

Begin	*End*	*Downtime*	*Description of Events*
6:00	7:00		Hold Safety Meeting and perform JSA with all personnel on location.
7:00	8:00		RU pump and lines.
8:00	9:00		TIH from derrick with 172 jts 2-7/8" 6.6# tbg and tag up at 5596'. Lay down 1 jt 2-7/8" tbg to 5564'.
9:00	9:30		MIRU Basic Cementers. Hold Safety Meeting and perform JSA with all personnel on location.
9:30	10:00		Test pump and lines to 2500#. Pump 9 bbls water spacer and tbg pressured up to 2100#.
10:00	13:30		TOOH standing back to derrick with 154 jts 2-7/8" 6.5 # tbg. Lay down 17 bad jts 2-7/8" 6.5# tbg.
13:30	16:00		TIH 171 jts 2-7/8" 6.5 tbg to 5564'. RU Basic Cementers.
16:00	16:30		Test pump and lines to 2500#. Pump 10 bbl water spacer, followed by 10.2 bbls class "G" Cement at 15.8#,
	16:30		1.1 bbl water spcer, displaced with 31.1 bbls 9.6# mud. Shut down pumping. ETOC at 5394'.
16:30	17:15		TOOH laying down 34 jts 2-7/8" 6.5 # tbg to 4459'. RU Basic Cementers.
17:15			Test pump and lines to 2500#. Pump 10 bbl water spacer, followed by 12.2 bbls class "G" Cement at 15.8#,
	17:45		1.1 bbl water spcer, displaced with 24.7 bbls 9.6# mud. Shut down pumping. ETOC at 4255'.
17:45	19:15		TOOH laying down 7 jts 2-7/8" 6.5 # tbg and standing back to derrick with 130 jts 2-7/8" 6.5# tbg. SWI.
19:15	20:00		Wash up tongs and slips. Drain up pump and lines.

Well Name	Federal Weld #1	Rig Name/Number	Ensign #318
County	Weld	Location (Sec-T-R)	Lat 40.675030 Long -104.083914
State	CO	Supervisor	Gary Chandler
AFE #		Engineer	Elizabeth Kane

Date: 11/29/2018 Rig Day 8

Daily Operations Summary

Detail Operations Summary

Begin	*End*	*Downtime*	*Description of Events*
6:00	7:00		Hold Safety Meeting and perform JSA with all personnel on location.
7:00	10:00		Lay down drill collars from derrick.
10:00	12:30		TIH with 128 jts 2-7/8" 6.5# tbg from derrick. Pick up and run 5 jts and 8' 2-7/8" 6.5# tbg from rack and tag
			cement top at 4339.52'.
12:30	15:30		TOOH laying down 117 jts 2-7/8" 6.5 # tbg. Stand back in derrick wit 16 jts 2-7/8" 6.5# tbg.
15:30	16:00		Rig down Power Swivel.
16:00	16:30		TIH 2 jts 2-7/8" 6.5# tbg and lay down 2 bad jts.
16:30	17:30		TIH from derrick with 16 jts 2-7/8" 6.5# tbg and 1 jt 27/8" 6.5# tbg from rack to 554'.
			MIRU Basic Cementers. Hold Safety Meeting and perform JSA with all personnel on location.
			Test pump and lines to 2500#. Pump 18 bbls water spacer and break circulation. , followed by 12.2 bbls class
			"G" Cement at 15.8#, (335 sx/68.6 bbls) and shut down with partial returns. (No cement returns to surface.)
17:30	18:30		TOOH standing back in derrick wit 16 jts 2-7/8" 6.5# tbg and lay down 1 jt. Swi. RDMO Basic.
18:30	19:30		Load out Fluid Pro Mus System. SDFN.

Well Name	Federal Weld #1	Rig Name/Number	Ensign #318
County	Weld	Location (Sec-T-R)	Lat 40.675030 Long -104.083914
State	CO	Supervisor	Gary Chandler
AFE #		Engineer	Elizabeth Kane

Date: 11/30/2018 Rig Day 9

Daily Operations Summary

Detail Operations Summary

Begin	*End*	*Downtime*	*Description of Events*
6:00	7:00		Hold Safety Meeting and perform JSA with all personnel on location.
7:00	8:30		TIH with 12 jts 2-7/8" 6.5# tbg from derrick and tag up 18' on jt #13 and tag cement at 409'. Lay down 5 jts
			2-7/8" 6.5 tbg. TIH from derrick with a total of 12 jts 2-7/8" 6.5# tbg in hole at 409'.
8:30			MIRU Basic Cementers. Hold Safety Meeting and perform JSA with all personnel on location.
			Test pump and lines to 2500#. Pump 18 bbls water spacer and break circulation. , followed by 51 bbls class
	9:30		"G" Cement at 15.8#, (280 sxs) and shut down with partial returns. (Lost returns to surface.)
9:30	10:00		TOOH standing back in derrick wit 12 jts 2-7/8" 6.5# tbg .
10:00	15:00		Wait on cement.
15:00	16:00	1	Attempt to TIH to tag cement. Rig will not shift into gear.
16:00	16:30		TIH with 11 jts 2-7/8" 6.5# tbg from derrick and tag cement at 358'. Lay down tag jt.
16:30	17:15		MIRU Basic Cementers. Hold Safety Meeting and perform JSA with all personnel on location.
			Test pump and lines to 2500#. Pump 25 bbls water and break circulation. , followed by 31.7 bbls class
			"G" Cement at 15.8#, (155 sxs) and shut down with returns to surface.
17:15	17:30		TOOH laying down 11 jts 2-7/8" 6.5# tbg.
17:30			RD tbg equipment. RD rig floor. NDBOP's. NDWH. (Cement Top 15' down. Fill csg to top with Basic.) RDMO
	18:15		Basic.
18:15	22:30		RDMO Ensign Well Service and support equipment. SDFN.