UHL 2

Plug and Abandon Operations Procedure

API # 051231997700

AFE #

WELL DATA

Surface Location: 660' FSL & 669' FWL of Sec 29, T10N, R58W, Weld County, CO

Elevations: Ground Level: 4,828 ft Kelly Bushing: 4,838.0 ft *10.0 ft (KB)*

Depths: Total Depth: 6,780 ft KBMD Perforations: 6606-6610'

Casing	Depth	OD	Grade	Weight	ID	Drift	Cap	Collapse	Burst	Tensile
Surface	*283 ft*	*8-5/8"*	*J-55*	*24.0 #*	*8.097 in*	*7.972 in*	*0.0637 bbl/ft*	*1,370 psi*	*2,950 psi*	*244,000 lbs.*
Prod.	*6,775 ft*	*4-1/2"*	*L-80*	*11.6 #*	*4.000 in*	*3.875 in*	*0.0155 bbl/ft*	*6,350 psi*	*7,780 psi*	*212,000 lbs.*

Tubing	Depth	OD	Grade	Weight	ID	Drift	Cap	Collapse	Burst	Tensile
2.375"	*6,589 ft*	*2.375*	*J-55*	*4.7#*	*1.995 in*	*1.9"*	*0.0040 bbl/ft*	*9,170 psi*	*8,840 psi*	*81,000 lbs*

Notes

Cement top on production casing 5498'

Surface casing/production casing void capacity about 0.044 bbls/ft

Production casing/drill hole anulus (below surface casing) 0.04 bbls/ft

OBJECTIVE

The following is a procedure to plug and abandon the UHL 2 well that is currently shut in.

Operations Procedure

1. Notify COGCC at least 48-hours prior to the start of operations using a Form 42. Verify with Drew Fish that this is completed prior to moving the rig in. 701-264-9004
2. Take GPS coordinates of exposed wellhead. Information is required for the Form 6 submittal when P&A work is complete.
3. MIRU plugging rig. Mob-in pump, tank, and all other necessary equipment. NU 7-1/16" 5K BOP w/ 2-3/8" pipe rams on top and blind rams on bottom, pressure test high and low, function test BOP. Have delivered clean 500-bbl upright tank and fill with fresh water. Heat as necessary. Fresh water to be used for cementing operation, circulating, and cement displacement.
4. Drop standing valve, (seating nipple located at 6,588') pressure test tbg to 1,000psi., retrieve standing valve on sand line. TOOH with 2-3/8" tbg, RIH with bit and scraper to 6600'. TOOH.
5. RU slickline with Gyro. Run survey on well from 6,606 (top of perforated section) to surface. Verify good data. RD Slickline.
6. PU CIBP with 2-3/8" tubing for 4-1/2" 11.6 lb/ft csg. TIH and set CIBP at 6,600' KB (using mechanical or hydraulic set plug. Ball is dropped for hydraulic, a setting tool is needed for mechanical).
7. MIRU cement crew. Pressure test surface lines to 2,000 psi. Mix 2 sacks of Class G, 1.15 cu-ft/sk 15.8 ppg cement. (Yield 0.5 bbls). Pump cement on top of bridge plug.
8. Move up hole placing EOT around 5775', Mix 20 sacks of Class G , 1.15 cu-ft/sk 15.8ppg cement. (Yield 4.1 bbls). Place balance plug from 5775' to 5512'. TOOH 4 stands and reverse clean with fresh water.
9. RIH and tag top of cement noting depth. TOOH standing back tubing.
10. MIRU wireline lubricator. PU chemical cutter w/ wireline. TIH and cut casing at 1600'. Pull wireline and cutter out of hole.
11. POOH and lay down tubing string. Pull 4 1/2" casing out of hole, and lay down. Reverse clean with freshwater down annulus. RIH with 2-3/8" tubing to 1650' (50' inside of stub). Shut down for day (steps 9 &10 can be done the following morning if need be).

12. MIRU cement crew. Pressure test lines to 2,000 psi. Mix 50 sacks, Class G, 1.15 cu-ft/sk, 15.8 ppg (yield 10.2 bbls). Pump cement filling 50' inside 4.5" stub and POOH leaving approximately 100' cement above stub. (1650'-1500'). Tag top of plug.

13. RIH with tubing to 330' and pump 10 bbl balance plug (50 sacks). Tag plug (about 110' above surface casing shoe). Reverse clean with fresh water. RD cement crew. TOOH and lay down work string.

14. RD BOPs and remove wellhead. RD workover rig. Dig down below surface and cut off casing at least 5' from surface.

15. Fill production casing with cement from 60' to surface (about 4 sacks or 1 bbl) . Fill back side with cement from 50' to surface. (about 10 sacks or 2 bbls)

16. Verifiy any existing flowlines are abandoned properly according to COGCC regulations. Flushed and caped on both ends.

17. Weld on cap with plugging information plate. (API # - 051231997700) (Well Name - UHL 2) (Legal location - 660' FSL & 669' FWL of Sec 29, T10N, R58W, Weld County, CO)

18. Back Fill Cellar.

19. Reclaim disturbed surface.

SAFETY & ENVIRONMENTAL ****EMERGENCY CONTACTS BELOW****

Whiting Operating stresses safety and environmental stewardship in all operations. Safety tailgate meetings are encouraged prior to commencing with any major wellsite task. Spills of notable size should be reported and recorded. The proper personal protective equipment (PPE) should be worn at all times while on location. Should there be any questions regarding Whiting's safety/environmental policies, the Wellsite Supervisor will provide instruction.

EMERGENCY CONTACT INFORMATION

Contacts	Phone Number & Description
EMERGENCY	911 or (800) 472-2121
Sheriff's Department (Sterling, CO)	(970) 522-3512 (Logan County)
New Raymer Fire Dept	(970) 437-5713
After Hours Emergency (WOG)	1-800-723-4608
Primary Ops Engineer: Drew Fish	Cell: (701) 264-9004
Secondary Ops Engineer: Adrian Reece	Cell: (720) 484-0777, Office: (303) 876-7076
Frac Supervisor: Ed Moore	Cell: (970) 556-2144, Office: (970) 437-4113
Rig Supervisor: Brent Brown	Cell: (701) 290-0123, Office: (970) 407-3009