

UPRR 15-7
39.800022 / -104.703985
05-001-08350

UPRR 15-7 Procedure

1. Survey and locate plugged wellbore. Set a stake and record as-drilled GPS coordinates.
2. Excavate around wellbore to expose the top of the surface casing.
3. Cut existing cap off wellbore. Weld a slip collar to 9-5/8" casing and necessary length of casing to reach ground level. Weld another 9-5/8" slip collar.
4. MIRU workover rig.
5. Install wellhead and BOP. Test BOP.
6. PU and RIH with 6-1/4" tricone bit, 10 3-1/2" drill collars, and 2-7/8", 6.5#, L80, EUE workstring.
7. Drill out 1st surface cement plug and circulate hole clean.
8. Continue drilling or RIH to top of 2nd surface casing plug. Record depth of plug.
9. Pressure test surface casing to 250 psi. If surface casing fails pressure test, contact engineer and hunt holes.
10. After pressure test of surface casing, drill out surface casing plug. If pressure is encountered below surface casing plug, circulate hole with mud or kill fluid until well is dead or blown down.
11. Continue drilling or RIH to top of Plug #3. Record depth of plug.
12. Drill out Plug #3, circulate hole clean. POOH and LD 6-1/4" tricone bit.
13. PU and RIH with mule shoe and 2-7/8" L80 tubing down to 8468'.
14. RU cement crew, pressure test lines to 4,500 psi, and spot plug from 8468'-8333' with 15.8 ppg Class G neat cement (44 sks) to cover the D Sand.
 - **FROM THIS POINT MOVING FORWARD:** Must wait a sufficient time on all subsequent plugs to confirm static conditions. If at any time after placing this plug there is evidence of pressure or of fluid migration, contact engineer before continuing operations.
15. POOH and spot plug from 7750'-7450' with 15.8 ppg Class G neat cement (100 sks) to cover the Niobrara.
 - **IF CIRCULATION IS NOT MAINTAINED WHILE PUMPING PLUG:**
 - i. POOH to surface casing. Wait 4 hours and tag TOC. Record tag depth. If tag is deeper than 7550', contact engineer.
16. POOH and spot plug from 3000'-2850' with 15.8 ppg Class G neat cement (50 sks) for additional coverage over the aquifers.
17. POOH and spot plug from 1854'-1450' with 15.8 ppg Class G neat cement (132 sks) to cover the Fox Hills.
18. POOH to surface casing. Wait 4 hours and tag TOC. Record tag depth. If tag is deeper than 1500', contact engineer.
19. POOH and spot plug from 988'-838' with 15.8 ppg Class G neat cement (50 sks) to cover the Upper Arapahoe.
20. POOH and spot plug from 352' to surface with 15.8 ppg Class G neat cement (130 sks).
 - **IF CEMENT DOES NOT RETURN TO SURFACE:**
 - i. POOH. Wait 4 hours and tag TOC. Record tag depth. If tag is deeper than 252', contact engineer.
 - ii. Pump 15.8 ppg Class G neat cement (10 sks) at surface.
21. RDMO. Top off cement after rig has moved, if necessary.
22. After surface plug has set, cut casing to 5' below ground level and weld on a plate to seal the well.
23. Inscribe the well's legal location, well name and number, and API number on the plate as shown:

660' FSL, 1980' FEL, SWSE Sec 7, T3S, R65W
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24. Photograph welded name plate and send to engineer before proceeding.

25. After confirmation from engineer is received, backfill hole and reclaim surface to original conditions.
26. Cover up the well and remediate the disturbed area.

UPRR 15-7 Cement Plug Table

CEMENT PLUG TABLE										
Plug Number	Plug Status	Target	Location	Plug Bottom Depth	Plug Top Depth	Cement Class	Yield (ft³/sk)	Number of Sacks	Must Be Tagged?	Maximum Tag Depth
1	New	D&J Sand	Open Hole	8468'	8333'	G	1.15	44	No	N/A
2	New	Niobrara	Open Hole	7750'	7450'	G	1.15	100	Possibly	7550'
3	New	Aquifer	Open Hole	3000'	2850'	G	1.15	50	No	N/A
4	New	Fox Hills	Open Hole	1854'	1450'	G	1.15	132	Yes	1500'
5	New	Lower Arap.	Open Hole	1075'	925'	G	1.15	50	No	N/A
6	New	Fresh Water	Open Hole	352'	Surface	G	1.15	130	Possibly	252'
TOTAL NEW SKS OF CEMENT REQUIRED:								506		

Well Name:	UPRR 15-7
Location:	660' FSL, 1980' FEL, SWSE Sec 7, T3S, R65W
County:	Adams
API #:	05-001-08350
Co-ordinates:	39.800022 / -104.703985
Elevations:	GROUND: 5421'
	KB: --
Depths (KB):	PBTD: --
	TD: 8524'

Surface Casing:
Drilled 12-1/4" surface hole to 302'
Set 9-5/8", 36# casing at 302'
Cemented with 300 sks
TOC at surface
Production Casing:
None
Open Hole:
Assumed 7-7/8" Open Hole from 302'-8,524', expected to be washed out
Tubing:
None
Rods:
None
Perforations:
None
P&A Plugs:
1. 10 sks from 25' to surface
2. 35 sks from 279'-350'
3. 120 sks from 1450'-1850'
Additional Notes:
Initial Potential Test:
Formation Tops:
Denver 211'
Upper Arapahoe (Base) 888'
Lower Arapahoe (Base) 1184'
Fox Hills 1500'
Fox Hills (Base) 1804'
Niobrara 7650'
D Sand 8383'
J Sand 8418'

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