

Deford 1
40.631325 / -103.999249
05-123-14507

Deford 1 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 8-5/8" casing and necessary length of casing to reach ground level. Weld another 8-5/8" 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. POOH and LD 6-1/4" tricone bit.
12. PU and RIH with mule shoe and 2-7/8" L80 tubing down to 6765'.
13. RU cement crew, pressure test lines to 4,500 psi, and spot plug from 6765'-6615' with class G cement (50 sks) to cover the D Sand formation.
 - **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.
14. POOH and spot plug from 6080'-5780' with class G cement (100 sks) to cover the Niobrara formation.
 - **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 5880', contact engineer.
15. POOH and spot plug from 1491'-1341' with class G cement (50 sks) to cover the Pierre formation.
16. POOH to surface casing. Wait 4 hours and tag TOC. Record tag depth. If tag is deeper than 1391', contact engineer.
17. POOH and spot plug from 438' to surface with class G cement (145 sks).
18. POOH and wait 4 hours. Tag TOC if not set at surface. Record tag depth. If tag is deeper than 160', contact engineer.
19. RDMO. Top off cement after rig has moved, if necessary.
20. After surface plug has set, cut casing to 5' below ground level and weld on a plate to seal the well.
21. Inscribe the well's legal location, well name and number, and API number on the plate as shown:

1980' FSL, 1980' FEL, NWSW Sec 29, T8N, R59W
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22. Photograph welded name plate and send to engineer before proceeding.
23. After confirmation from engineer is received, backfill hole and reclaim surface to original conditions.
24. Cover up the well and remediate the disturbed area.

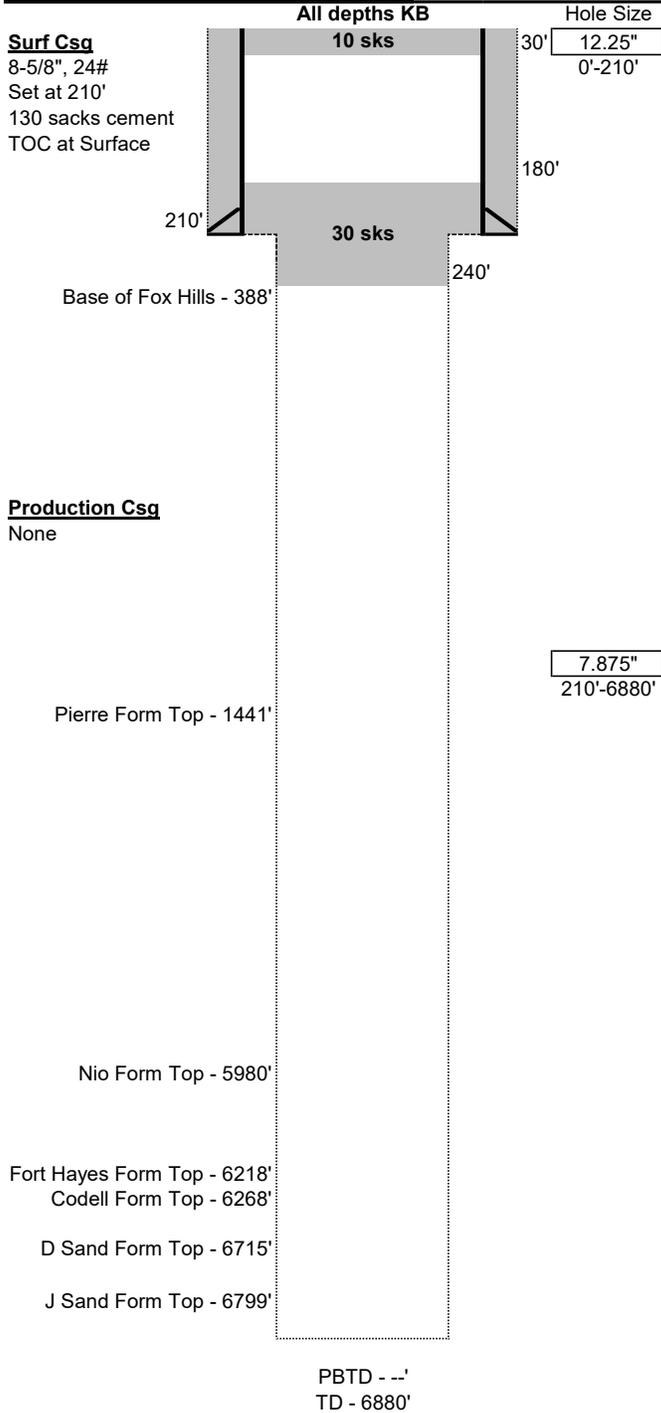
Deford 1 Cement Plug Table

CEMENT PLUG TABLE													
Plug Number	Plug Status	Plug Location	Formation	Plug Bottom Depth	Plug Top Depth	Cement Class	Yield (ft ³ /sk)	Number of Sacks		Must Be Tagged?	Maximum Tag Depth	New Sks Required	New Sks Required w/ (10% SF)
1	New	Open Hole	D Sand	6765'	6615'	G	1.15	50		No	N/A	345	380
2	New	Open Hole	Niobrara	6080'	5780'	G	1.15	100		Possibly	5880'		
3	New	Open Hole	Pierre	1491'	1341'	G	1.15	50		Yes	1391'		
4.1	New	Open Hole	Fresh Water	438'	210'	G	1.15	74	145	Possibly	160'		
4.2	New	Casing	Fresh Water	210'	Surface	G	1.15	71					

Current Wellbore Schematic

Well Name: Deford 1
 Location: 1980' FSL, 1980' FEL, NWSW Sec 29, T8N, R59W
 County: Weld
 API #: 05-123-14507
 Co-ordinates: 40.631325 / -103.999249
 Elevations: GROUND: 4895'
 KB: 4905'
 Depths (KB): PBTD: --
 TD: 6880'

Date Prepared: 4/26/2024
 Last Updated: 4/26/2024
 Spud Date: 12/23/1989
 Completion Start Date: 12/30/1989
 Last Workover Date: 12/31/1989
 Prepared by: Jake Van Bramer
 Updated by: --



Surface Casing:
 Drilled 12-1/4" surface hole to 210'
 Set 8-5/8", 24# casing at 210'
 Cemented with 130 sks
 TOC at Surface

Production Casing:
 Drilled 7-7/8" production hole to 6,880'
 No casing set

Open Hole:
 7-7/8" Open Hole from 210'-6,880', expected to be washed out

Tubing:
 None

Rods:
 None

Perforations:
 None

P&A Plugs:
 1. 10 sks from 30' to surface
 2. 30 sks from 180'-240'

Additional Notes:

Initial Potential Test:

Formation Tops:

Base of the Fox Hills	388'
Pierre	1441'
Niobrara	5980'
Fort Hayes	6218'
Codell	6268'
D Sand	6715'
J Sand	6799'

Proposed Wellbore Schematic

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