

Malo 2
40.645775 / -103.989529
05-123-05548

Malo 2 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 surface cement plug and circulate hole clean. Be prepared to unclog BOP with wood debris, wood plug was place at 90'.
8. POOH and LD 6-1/4" tricone bit.
9. PU and RIH with mule shoe and 2-7/8" L80 tubing down to 6570' and tag existing plug. Record tag depth. If tag is deeper than 6570', contact engineer.
10. POOH to 6005'.
11. RU cement crew, pressure test lines to 4,500 psi, and spot plug from 6005'-5705' with class G cement (100 sks) to cover the Niobrara 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.
 - **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 5805', contact engineer.
12. POOH and spot plug from 1404'-1254' with class G cement (50 sks) to cover the Pierre formation.
13. POOH to surface casing. Wait 4 hours and tag TOC. Record tag depth. If tag is deeper than 1304', contact engineer.
14. POOH and spot plug from 348' to surface with class G cement (110 sks).
15. POOH and wait 4 hours. Tag TOC if not set at surface. Record tag depth. If tag is deeper than 105', contact engineer.
16. RDMO. Top off cement after rig has moved, if necessary.
17. After surface plug has set, cut casing to 5' below ground level and weld on a plate to seal the well.
18. Inscribe the well's legal location, well name and number, and API number on the plate as shown:

1980' FSL, 660' FWL, NWSW Sec 21, T8N, R59W
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19. Photograph welded name plate and send to engineer before proceeding.
20. After confirmation from engineer is received, backfill hole and reclaim surface to original conditions.
21. Cover up the well and remediate the disturbed area.

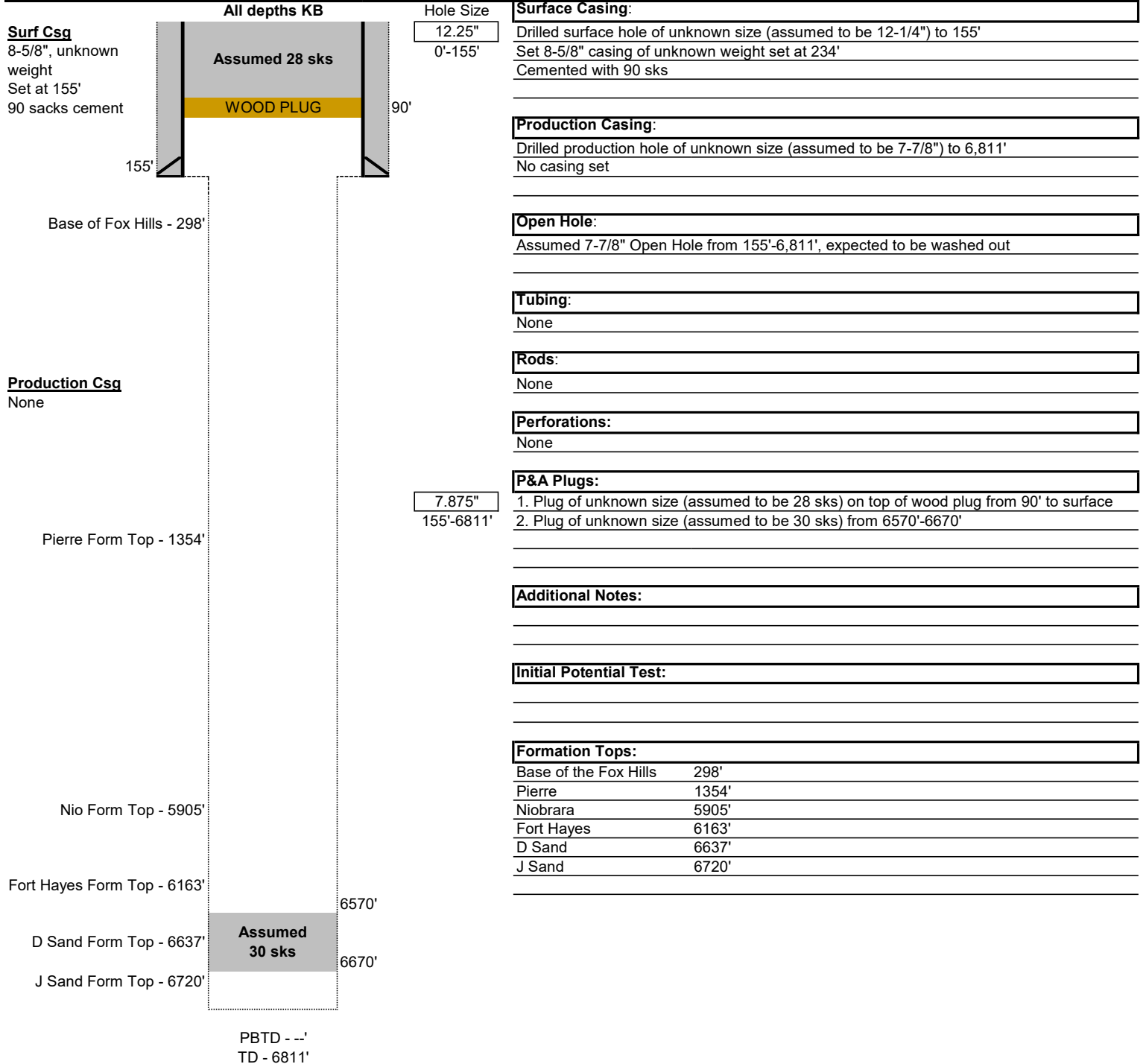
Malo 2 Cement Plug Table

CEMENT PLUG TABLE													
Plug Number	Plug Status	Plug Location	Formation	Plug Bottom Depth	Plug Top Depth	Cement Class	Yield (ft³/sk)	Number of Sacks		Must Be Tagged?	Maximum Tag Depth	New Sks Required	New Sks Required w/ (10% SF)
1	Existing	Open Hole	D Sand	6670'	6570'	Unknown	Unknown	Assumed 30		Yes	6570'	260	286
2	New	Open Hole	Niobrara	6005'	5705'	G	1.15	100		Possibly	5805'		
3	New	Open Hole	Pierre	1404'	1254'	G	1.15	50		Yes	1304'		
4.1	New	Open Hole	Fresh Water	348'	155'	G	1.15	62	110	Possibly	105'		
4.2	New	Casing	Fresh Water	155'	Surface	G	1.15	48					

Current Wellbore Schematic

Well Name: Malo 2
 Location: 1980' FSL, 660' FWL, NWSW Sec 21, T8N, R59W
 County: Weld
 API #: 05-123-05548
 Co-ordinates: 40.645775 / -103.989529
 Elevations: GROUND: --
 KB: 4845'
 Depths (KB): PBTD: --
 TD: 6811'

Date Prepared: 4/25/2024
 Last Updated: 4/25/2024
 Spud Date: 4/14/1957
 Completion Start Date: 4/27/1957
 Last Workover Date: 4/27/1957
 Prepared by: Jake Van Bramer
 Updated by: --



Proposed Wellbore Schematic

Well Name: Malo 2
 Location: 1980' FSL, 660' FWL, NWSW Sec 21, T8N, R59W
 County: Weld
 API #: 05-123-05548
 Co-ordinates: 40.645775 / -103.989529
 Elevations: GROUND: --
 KB: 4845'
 Depths (KB): PBTD: --
 TD: 6811'

Date Prepared: 4/25/2024
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