

Malo 1
40.627605 / -103.989649
05-123-05497

Malo 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 10-3/4" casing and necessary length of casing to reach ground level. Weld another 10-3/4" 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 6737'.
13. RU cement crew, pressure test lines to 4,500 psi, and spot plug from 6737'-6614' 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 650'-5750' with class G cement (120 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 5850', contact engineer.
15. POOH and spot plug from 1493'-1343' with class G cement (60 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 1393', contact engineer.
17. POOH and spot plug from 442' to surface with class G cement (195 sks).
18. POOH and wait 4 hours. Tag TOC if not set at surface. Record tag depth. If tag is deeper than 150', 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:

660' FSL, 669' FWL, SWSW Sec 28, 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.

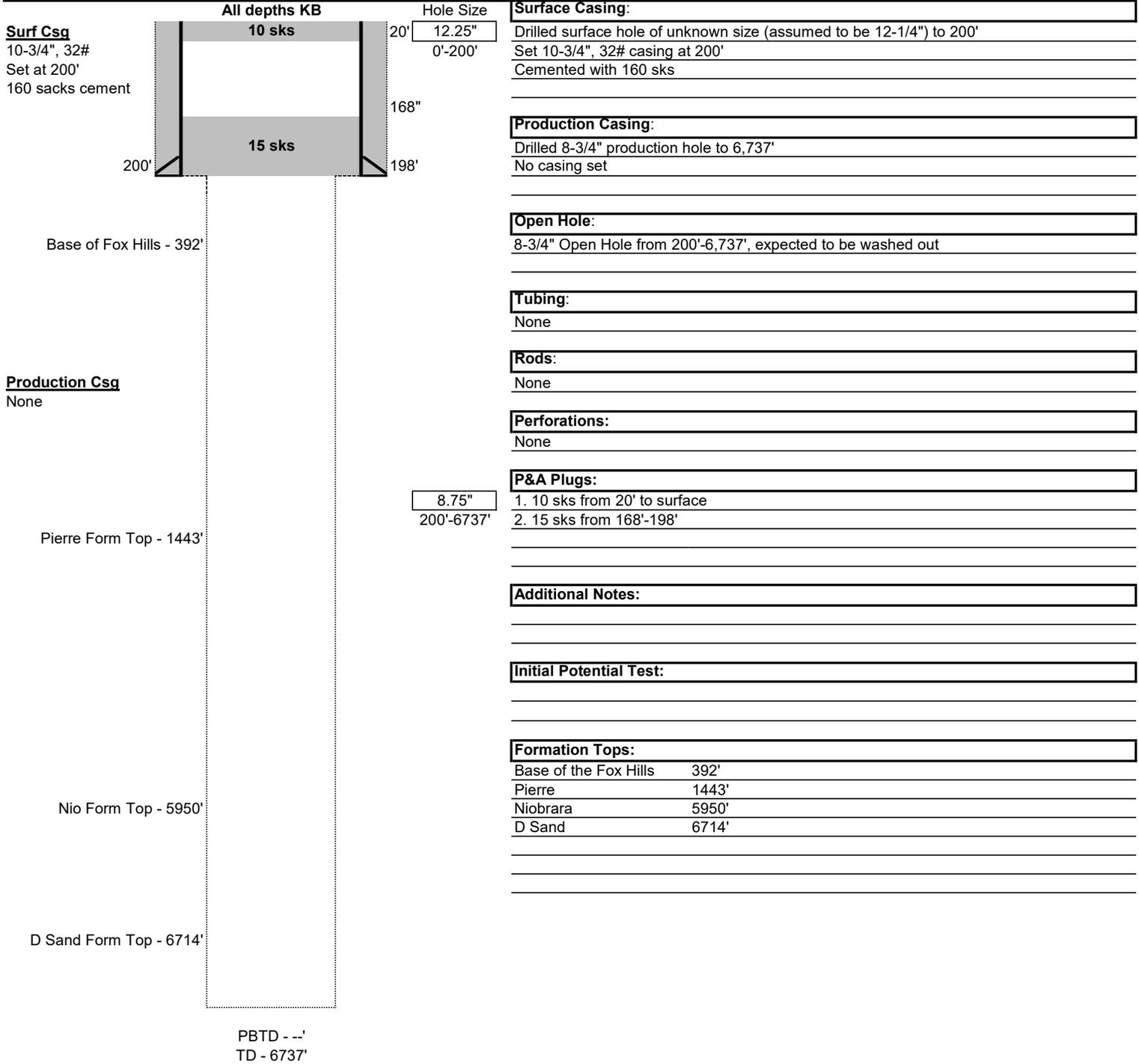
Malo 1 Cement Plug Table

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	6737'	6614'	G	1.15	50		No	N/A	425	468
2	New	Open Hole	Niobrara	6050'	5750'	G	1.15	120		Possibly	5850'		
3	New	Open Hole	Pierre	1493'	1343'	G	1.15	60		Yes	1393'		
4.1	New	Open Hole	Fresh Water	442'	200'	G	1.15	96	195	Possibly	150'		
4.2	New	Casing	Fresh Water	200'	Surface	G	1.15	99					

Current Wellbore Schematic

Well Name: Malo 1
 Location: 660' FSL, 669' FWL, SWSW Sec 28, T8N, R59W
 County: Weld
 API #: 05-123-05497
 Co-ordinates: 40.627605 / -103.989649
 Elevations: GROUND: --
 KB: 4908'
 Depths (KB): PBTD: --
 TD: 6737'

Date Prepared: 4/25/2024
 Last Updated: 4/25/2024
 Spud Date: 1/29/1955
 Completion Start Date: 2/8/1955
 Last Workover Date: 2/8/1955
 Prepared by: Jake Van Bramer
 Updated by: --



Surface Casing:

Drilled surface hole of unknown size (assumed to be 12-1/4") to 200'
 Set 10-3/4", 32# casing at 200'
 Cemented with 160 sks

Production Casing:

Drilled 8-3/4" production hole to 6,737'
 No casing set

Open Hole:

8-3/4" Open Hole from 200'-6,737', expected to be washed out

Tubing:

None

Rods:

None

Perforations:

None

P&A Plugs:

1. 10 sks from 20' to surface
2. 15 sks from 168'-198'

Additional Notes:

Initial Potential Test:

Formation Tops:

Base of the Fox Hills	392'
Pierre	1443'
Niobrara	5950'
D Sand	6714'

Proposed Wellbore Schematic

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