

Malo 10-20
40.645855 / -103.998739
05-123-19442

Malo 10-20 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 6028'.
13. RU cement crew, pressure test lines to 4,500 psi, and spot plug from 6028'-5728' 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 6828', contact engineer.
14. POOH and spot plug from 1428'-1278' with class G cement (50 sks) to cover the Pierre formation.
15. POOH to surface casing. Wait 4 hours and tag TOC. Record tag depth. If tag is deeper than 1328', contact engineer.
16. POOH and spot plug from 380' to surface with class G cement (130 sks).
17. POOH and wait 4 hours. Tag TOC if not set at surface. Record tag depth. If tag is deeper than 262', contact engineer.
18. RDMO. Top off cement after rig has moved, if necessary.
19. After surface plug has set, cut casing to 5' below ground level and weld on a plate to seal the well.
20. Inscribe the well's legal location, well name and number, and API number on the plate as shown:

1991' FSL, 1898' FEL, NWSE Sec 20, T8N, R59W
Malo 10-20
05-123-19442
21. Photograph welded name plate and send to engineer before proceeding.
22. After confirmation from engineer is received, backfill hole and reclaim surface to original conditions.
23. Cover up the well and remediate the disturbed area.

Malo 10-20 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	6861'	6711'	Unknown	Unknown	40		No	N/A	280	308
2	New	Open Hole	Niobrara	6028'	5728'	G	1.15	100		Possibly	5828'		
3	New	Open Hole	Pierre	1428'	1278'	G	1.15	50		Yes	1328'		
4.1	New	Open Hole	Fresh Water	380'	312'	G	1.15	22	130	Possibly	262'		
4.2	New	Casing	Fresh Water	312'	Surface	G	1.15	108					

Well Name:	Malo 10-20
Location:	1991' FSL, 1898' FEL, NWSE Sec 20, T8N, R59W
County:	Weld
API #:	05-123-19442
Co-ordinates:	40.645855 / -103.998739
Elevations:	GROUND: 4830'
	KB: 4841'
Depths (KB):	PBTD: --
	TD: 6822'

Formation Tops:	
Base of the Fox Hills	330'
Pierre	1378'
Niobrara	5928'
Fort Hayes	6172'
Codell	6220'
D Sand	6660'
J Sand	6744'

Proposed Wellbore Schematic

Well Name: Malo 10-20
 Location: 1991' FSL, 1898' FEL, NWSE Sec 20, T8N, R59W
 County: Weld
 API #: 05-123-19442
 Co-ordinates: 40.645855 / -103.998739
 Elevations: GROUND: 4830'
 KB: 4841'
 Depths (KB): PBTD: --
 TD: 6822'

Date Prepared: 4/26/2024
 Last Updated: 4/26/2024
 Spud Date: 9/10/1997
 Completion Start Date: 9/13/1997
 Last Workover Date: 9/15/1997
 Prepared by: Jake Van Bramer
 Updated by: --

