

OCCIDENTAL PETROLEUM CORPORATION

Please contact your area engineer with any questions concerning this procedure.

1/2/2025

**RE-ENTRY PLUG and ABANDONMENT PROCEDURE****JOHN ZIMBELMAN #1**

05-123-05082

Step Description

1	PREP
2	Well is being re-entered to P&A well to current standards due to it being offset to upcoming fracs.
3	Provide 48 hour notice to Colorado ECMC prior to rig up per request on approved Form 6 (i.e. submit Form 42, etc.)
4	Perform pre-job safety meeting and review JSA. Ensure all parties know their roles and responsibilities and can identify hazards.
5	Follow all Rockies Well Servicing guidelines.
6	Stop and complete new JSA prior to all barrier changes.
7	Locate and expose 8-5/8" casing stub.
8	Tie into and weld on 8-5/8" casing stub above GL.
9	Install 8-5/8" 3K Q92 well head with ball valves on both outlets.
10	Check and record surface casing pressure.
11	START RIG ACTIVITIES
12	MIRU rig/ equipment/tanks/pumps.
13	Perform negative test and ensure well is dead. Wait 15-30 minutes to verify (cement is at surface).
14	Pressure test BOPE, annular and 2" 1509 iron to API standards. Chart and record pressure tests. Please refer to Testing Procedures and Testing Table listed in the APPENDIX tab. All tests are performed on stump. Note: ensure BOPE accumulator controls are properly placed and pressurized.
15	NU and torque BOPE to casing head. The BOP consists of the following components: 7-1/16" double gate BOP with blind rams and pipe rams (for 4.5" DP), annular bag, 2 TIW valves accessible with change overs if applicable (i.e. drill collars). Communicate with foreman on correct BOP.
16	Test TIW valves. Chart tests and document accordingly.
17	DRILLING
18	PU 7-7/8" drilling BHA w/ MWD on drill pipe.
19	Drill 10 sx cement plug from surface through estimated BOC at 45'. Continue drilling out 20 sx cement plug at shoe, TOC estimated at 225' BOC estimated at 259'. AS SOON AS WE BEGIN TO SEE INDICATION OF NEW FORMATION BEING DRILLED, STOP AND DISCUSS W/ FOREMAN/ENGINEER.
20	Wash down to plug at 800' and drill out. Estimated BOC at 850'.
21	Wash down to casing cut at 1000'. TOOHD Drilling BHA.
22	CASING FISHING ATTEMPT
23	Run impression block for cut profile.
24	Discuss with Forman and Engineer on whether to run a skirted spear or an overshot.
25	Attempt to pull casing from 1000' to 1500'. Casing was "shot" at 1500' in 1980.
26	If casing won't pull, discuss attempting to re-enter through an overshot to cut casing. Casing cut may need re-dressing.
27	Circulate with biocide treated fresh water to clean the hole. Pump until returns are clean.
28	LD casing and fishing BHA.
29	1500' PLUG
30	RIH open-ended to 1500'. Establish circulation to surface with treated fresh water to clean up wellbore. If hole is stable enough circulate in 90 bbls of HSF, displace to 1500', let soak then circulate clean before cement.
31	MIRU cementers. Pump 500 sx (1.21 yld - 107.7 bbl or 605 cf) of the Upper AGM blend: Class G with 0.4% B547 Gas Block (Latex) and 1.5% S001 CC (Calcium Chloride) and 4% D053 Expansion (Gyp). Volume based on 900' in 7.875" bit size open hole with 100% excess factor. Cement will be from 1500'-600'. Collect wet and dry samples of cement to be left on rig. RDMO Cementers. Notify engineering if circulation is ever lost during job.
32	Pull out of cement. TOOHD to 130'. Circulate tbh clean for a minimum of 2 bottoms up. TOOHD. WOC.
33	SHOE/SURFACE PLUG

34	RIH open-ended to tag previous plug to confirm coverage. Establish circulation to surface with treated fresh water and to clean up wellbore.
35	MIRU cementers. Pump Shoe/Surface Plug: Pump 300 sx (1.21 yld - 64.6 bbl or 363 cf) of the Surface AGM blend: Class G with 0.4% B547 Gas Block (Latex) and 2.0% S001 CC (Calcium Chloride) and 4% D053 Expansion (Gyp). Collect wet and dry samples of cement to be left on rig. RDMO Cementers. Notify engineering if circulation is ever lost during job.
36	Pull out of cement. TOO H, LD all but one joint of pipe. Circulate clean with water to ensure TOC is low enough for C&C team. TOO H and LD final joint . RDMO cementers. ND BOP. Install night cap. RDMO all.
37	Instruct cementing and wireline contractors to e-mail copies of all job logs/job summaries to rscDJVendors@oxy.com within 24 hours of completion of the job.
38	Supervisor submit paper copies of all invoices, logs, and reports to Well Services Engineering Specialist.
39	Excavation crew to notify One Call to clear excavation area around wellhead and for flow lines.
40	Excavate hole around surface casing enough to allow welder to cut casing a minimum 5' below ground level.
41	Welder cut casing minimum 5' below ground level.
42	Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number.
43	Obtain GPS location data and provide to GPS Teams page and OXY GIS database.
44	Back fill hole with fill. Clean location, and level.
45	Submit Form 6 Subsequent Report to Colorado ECMC ensuring to provide 'As performed' WBD identifying operations completed.