

OCCIDENTAL PETROLEUM CORPORATION

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

9/22/2025

RE-ENTRY PLUG and ABANDONMENT PROCEDURE

BAJA RANCH UNIT 1

05-123-09448

Step Description

1	PREP
2	Well is being re-entered to re-P&A to current standards due to it being offset to upcoming fracs.
3	Provide 48 hour notice to Colorado ECOM 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 on drill pipe for the surface plug and shoe plug tag.
19	Drill 10 sx cement plug from surface through estimated BOC at 20'. Continue washing down to cement plug at shoe air tag. TOC estimated at 190'. Discuss with engineer/foreman if we need to pick up a packed-hole (fixed inclination) BHA, drill out the shoe plug. If any trash is encountered, discuss running a junk mill/drag bit or junk basket with foreman and engineer.
20	LD BHA and pick up packed-hole BHA with UBHO. (7-7/8" tri-cone, 7-7/8" near bit stabilizer, 6-11/16" OD straight mo 7/8" stabilizer, monels with at least one stabilizer, UBHO, 6 x 4.5" HW) Need 3 stabilizers total.
21	Continue drilling out shoe plug (est BOC @ 240'), using the absolute minimum WOB, this will be very soft surrounding formation.
22	Tag up and drill out next plug, est TOC 610'. Est BOC 868'. If the plug is there it will be in the most permeable portion the Fox Hills aquifer so kick off potential is high, keep WOB as low as possible.
23	Continue washing down to 7600'.
	Run at least one wiper trip and circulate clean.
24	TOOH, LD BHA.
25	7600' PLUG
26	RIH w/ DP open-ended and wash down to 7600'. Circulate bottoms up.

27	MIRU cementers. Pump 7600': Pump 250 sx (1.52 yld - 68 bbl or 380 cf) of the Niobrara Cement blend. Volume based on 900' in 7.875" bit size open hole with 25% excess factor. Cement planned for 7600'-6700'. Collect wet and dry samples of cement to be left on rig. RDMO Cementers. Notify engineering if circulation is ever lost during job.
28	Pull out of cement. TOOH to 5000'. Circulate tbg clean for a minimum of 2 bottoms up. TOOH. WOC.
29	4800' PLUG
30	RIH w/ DP open-ended to tag previous plug to confirm coverage. Move up to 4800'. Circulate bottoms up.
31	MIRU cementers. Pump 4800' Plug: Pump 250 sx (1.18 yld - 52.5 bbl or 295 cf) of the Sussex AGM: Volume based on 500' in 7.875" bit size open hole with 150% excess factor. Cement planned for 4800'-4450'. 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. TOOH to 2800'. Circulate tbg clean for a minimum of 2 bottoms up. TOOH. WOC.
33	2800' PLUG
34	RIH w/ DP open-ended to tag previous plug to confirm coverage. Move up to 2800'. Circulate bottoms up.
35	MIRU cementers. Pump 2800' Plug: Pump 200 sx (1.21 yld - 43 bbl or 242 cf) of the Lower AGM blend. Volume based on 500' in 7.875" bit size open hole with 45% excess factor. Cement planned for 2800'-2300'. 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. TOOH to 1700'. Circulate tbg clean for a minimum of 2 bottoms up. TOOH. WOC.
37	1900' PLUG
38	RIH w/ DP open-ended to tag previous plug to confirm coverage. Move up to 1900'. Circulate bottoms up.
39	MIRU cementers. Pump 1900' Plug: Pump 330 sx (1.21 yld - 71 bbl or 400 cf) of the Upper AGM blend. Volume based on 575' in 7.875" bit size open hole with 100% excess factor. Cement planned for 1900'-1325'. Collect wet and dry samples of cement to be left on rig. RDMO Cementers. Notify engineering if circulation is ever lost during job.
40	Pull out of cement. TOOH to 900'. Circulate tbg clean for a minimum of 2 bottoms up. TOOH. WOC.
41	SHOE/SURFACE PLUG
42	RIH w/ DP open-ended to tag previous plug to confirm coverage. Move up to 850' or stay just above tag if shallower than 850'. Establish circulation to surface.
43	MIRU cementers. Pump 1st stage of the Shoe/Surface Plug: Pump 330sx (1.17 yld - 71 bbl or 400 cf) of the Surface AGM blend. Volume based on 575' in 7.875" bit size open hole with 100% excess factor. Cement planned for 850'-275'. Collect wet and dry samples of cement to be left on rig. Notify engineering if circulation is ever lost during job.
44	Wait 2+ hours, get a light tag and establish circulation just above tag.
45	Pump 2nd stage of the Shoe Plug: Pump 100+sx (1.21 yld) of the Surface AGM blend. Volume based on 59' in 7.875" bit size open hole with 100% excess factor and 204' in 8-5/8" 24# with 0% excess factor. Cement planned from 275'-Surf. Collect wet and dry samples of cement to be left on rig. Notify engineering if circulation is ever lost during job.
46	Pull out of cement. TOOH, LD all but one joint of pipe. Circulate clean with water to ensure TOC is low enough for C&C team. TOOH and LD final joint. RDMO cementers. ND BOP. Install night cap. RDMO all.
47	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.
48	Supervisor submit paper copies of all invoices, logs, and reports to Well Services Engineering Specialist.
49	Excavation crew to notify One Call to clear excavation area around wellhead and for flow lines.
50	Excavate hole around surface casing enough to allow welder to cut casing a minimum 5' below ground level.
51	Welder cut casing minimum 5' below ground level.
52	Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number.
53	Obtain GPS location data and provide to GPS Teams page and OXY GIS database.
54	Back fill hole with fill. Clean location, and level.
55	Submit Form 6 Subsequent Report to Colorado ECOMC ensuring to provide 'As performed' WBD identifying operations completed.

56	Welder cut casing minimum 5' below ground level.
57	Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number.
58	Obtain GPS location data and provide to GPS Teams page and OXY GIS database.
59	Back fill hole with fill. Clean location, and level.
60	Submit Form 6 Subsequent Report to Colorado ECMC ensuring to provide 'As performed' WBD identifying operations completed.