

OCCIDENTAL PETROLEUM CORPORATION

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

1/8/2026

**RE-ENTRY PLUG and ABANDONMENT PROCEDURE**

MADDUX 1

**05-123-05056**

**Step Description**

<b>1</b>	<b>PREP</b>
<b>2</b>	Well is being re-entered to P&A well to current standards due to it being offset to upcoming fracs.
<b>3</b>	<b>Provide 48 hour notice to Colorado ECMC prior to rig up per request on approved Form 6 (i.e. submit Form 42, etc.)</b>
<b>4</b>	Perform pre-job safety meeting and review JSA. Ensure all parties know their roles and responsibilities and can identify hazards.
<b>5</b>	Follow all Rockies Well Servicing guidelines.
<b>6</b>	Stop and complete new JSA prior to all barrier changes.
<b>7</b>	Locate and expose 10-3/4" casing stub.
<b>8</b>	Tie into and weld on 10-3/4" casing stub above GL.
<b>9</b>	Install 10-3/4" 3K Q92 well head with ball valves on both outlets.
<b>10</b>	Check and record surface casing pressure.
<b>11</b>	<b>START RIG ACTIVITIES</b>
<b>12</b>	MIRU rig/ equipment/tanks/pumps.
<b>13</b>	Perform negative test and ensure well is dead. Wait 15-30 minutes to verify (cement is at surface).
<b>14</b>	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.
<b>15</b>	NU and torque BOPE to casing head. The BOP consists of the following components: 7-1/16" double gate BOP with blur 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.
<b>16</b>	Test TIW valves. Chart tests and document accordingly.
<b>17</b>	<b>DRILLING</b>
<b>18</b>	PU 7-7/8" bit on 4-1/2" drill pipe.
<b>19</b>	Drill 10 sx cement plug from surface through estimated BOC at 30'. Continue washing down to cement plug at shoe an tag. TOC estimated at 176'. Drill through shoe plug, estimated BOC is at 216'. Round trip for UBHO if you don't already have one.
<b>20</b>	Continue washing down to 7000'.
<b>21</b>	Circulate with biocide treated fresh water to clean the hole. Pump until returns are clean.
<b>22</b>	TOOH, LD BHA.
<b>23</b>	<b>7000' PLUG</b>
<b>24</b>	RIH w/ DP open-ended to 7000'. Establish circulation to surface with biocide treated fresh water and pump at least two hole-volumes to clean up wellbore.
<b>25</b>	MIRU cementers: Pump 200 sx (1.52 yld - 54 bbl or 304cf) of the Niobrara Cement blend: Class G with 0.4% B547 Gas Block (Latex) and 0.4% D255 FLA (Fluid Loss) and 35% D066 Silica Flour and 0.2% D800 (Retardant) and 0.3% D065 (Dispersant). Volume based on 630' in 7.875" bit size open hole with 100% excess factor. Cement planned for 6550-7000'. Collect wet and dry samples of cement to be left on rig. RDMO Cementers. Notify engineering if circulation is lost during job.
<b>26</b>	Pull out of cement. TOOH to 6400'. Circulate tbg clean for a minimum of 2 bottoms up. TOOH. WOC.
<b>23</b>	<b>6430' PLUG</b>

24	RIH w/ DP open-ended to tag previous plug to confirm coverage. Move up to 6430' or just above tag, which ever is shallower. Establish circulation to surface with biocide treated fresh water and pump at least two hole-volumes to clean wellbore.
25	MIRU cementers: Pump 280 sx (1.52 yld - 76 bbl or 425cf) of the Niobrara Cement blend: Class G with 0.4% B547 Gas Block (Latex) and 0.4% D255 FLA (Fluid Loss) and 35% D066 Silica Flour and 0.2% D800 (Retardant) and 0.3% D065 (Dispersant). Volume based on 630' in 7.875" bit size open hole with 100% excess factor. Cement planned for 5800-6430'. Collect wet and dry samples of cement to be left on rig. RDMO Cementers. Notify engineering if circulation is ever lost during job.
26	Pull out of cement. TOOH to 5000'. Circulate tbq clean for a minimum of 2 bottoms up. TOOH. WOC.
27	<b>SUSSEX PLUG</b>
28	RIH w/ DP open-ended to tag previous plug to confirm coverage. Move up to 4400'. Establish circulation to surface with biocide treated fresh water and pump at least two hole-volumes to clean up wellbore.
29	MIRU cementers. Pump Sussex Plug: Pump 280 sx (1.19 yld - 59 bbl or 333 cf) of the Sussex AGM: Class G with 0.4% E Gas Block (Latex) and 2% D053 Expansion (Gyp) and 0.25% D255 FLA (Fluid Loss) 0.3% D065 (Dispersant). Volume based on 500' in 7.875" bit size open hole with 100% excess factor. Cement planned for 4400'-3900'. Collect wet and dry samples of cement to be left on rig. RDMO Cementers. Notify engineering if circulation is ever lost during job.
30	Pull out of cement. TOOH to 3000'. Circulate tbq clean for a minimum of 2 bottoms up. TOOH. WOC.
35	<b>1600' PLUG</b>
36	RIH w/ DP open-ended to tag previous plug to confirm coverage. Move up to 1600'. Establish circulation to surface with biocide treated fresh water and pump at least two hole-volumes to clean up wellbore.
37	MIRU cementers. Pump 1600' Plug: Pump 310 sx (1.21 yld ) of the Lower AGM blend: Class G with 0.4% B547 Gas Block (Latex) and 2.0% S001 CC (Calcium Chloride) and 4% D053 Expansion (Gyp). Volume based on 600' in 7.875" bit size hole with 100% excess factor. Cement planned for 1600'-1000'. Collect wet and dry samples of cement to be left on rig. RDMO Cementers. Notify engineering if circulation is ever lost during job.
38	Pull out of cement. TOOH to 500'. Circulate tbq clean for a minimum of 2 bottoms up. TOOH. WOC.
39	<b>SHOE/SURFACE PLUG</b>
40	RIH w/ DP open-ended to tag previous plug to confirm coverage. Move up to 700' or stay just above tag if shallower than 700'. Establish circulation to surface with biocide treated fresh water and pump at least two hole-volumes to clean up wellbore.
41	MIRU cementers. Pump the Shoe Plug: Pump 350sx (1.21 yld, 100% OH ex) of the Surface AGM blend: Class G with 0 B547 Gas Block (Latex) and 2.0% S001 CC (Calcium Chloride) and 4% D053 Expansion (Gyp). Cement planned for 700' Surf'. Collect wet and dry samples of cement to be left on rig. Notify engineering if circulation is ever lost during job.
42	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.
43	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.
44	Supervisor submit paper copies of all invoices, logs, and reports to Well Services Engineering Specialist.
45	Excavation crew to notify One Call to clear excavation area around wellhead and for flow lines.
46	Excavate hole around surface casing enough to allow welder to cut casing a minimum 5' below ground level.
47	Welder cut casing minimum 5' below ground level.
48	Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number.
49	Obtain GPS location data and provide to GPS Teams page and OXY GIS database.
50	Back fill hole with fill. Clean location, and level.

<b>51</b>	Submit Form 6 Subsequent Report to Colorado ECMC ensuring to provide 'As performed' WBD identifying operations completed.
<b>52</b>	Welder cut casing minimum 5' below ground level.
<b>53</b>	Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number.
<b>54</b>	Obtain GPS location data and provide to GPS Teams page and OXY GIS database.
<b>55</b>	Back fill hole with fill. Clean location, and level.
<b>56</b>	Submit Form 6 Subsequent Report to Colorado ECMC ensuring to provide 'As performed' WBD identifying operations completed.