

OCCIDENTAL PETROLEUM CORPORATION

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

1/8/2026

**RE-ENTRY PLUG and ABANDONMENT PROCEDURE**

KAUFMAN 1-A

**05-123-05067**

**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>	<b>Note: This well was originally drilled and dry-hole abandoned in 1954 with no production casing ran. The P&amp;A'd wellbore was re-entered in 1972, completed with 5-1/2" 14# and 15.5# production casing and then abandoned again in 1974, pulling the 5.5" from free-point.</b>
<b>13</b>	MIRU rig/ equipment/tanks/pumps.
<b>14</b>	Perform negative test and ensure well is dead. Wait 15-30 minutes to verify (cement is at surface).
<b>15</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>16</b>	NU and torque BOPE to casing head. The BOP consists of the following components: 11" double gate BOP with blind ram 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>17</b>	Test TIW valves. Chart tests and document accordingly.
<b>18</b>	<b>DRILLING</b>
<b>19</b>	<b>PU 9" drilling BHA</b> on drill pipe for the surface plug and shoe plug tag.
<b>20</b>	Drill surface cement plug from surface, unknown volume and TOC/BOC. Continue washing down to cement plug around 200' and drill it out, unknown volume and TOC/BOC. Continue washing down to cement plug around 700' also unknown volume TOC/BOC. If the 700' plug is being difficult discuss with engineer foreman if we need to pick up a packed-hole to help minimize kick-off potential (tri-cone, at bit stabilizer, straight motor, stabilizer, DC, stabilizer, DC, stabilizer; no four stabilizers total).
<b>21</b>	Once through the 700' plug round trip for a UBHO if you don't have one on already. Laydown stabilizers if you ended up running them for the 700' plug.
<b>22</b>	Continue washin/drilling-out to 6700'-ish to casing cut. Careful moving down at the lower depths, we don't know the depth they actually cut/backed-off casing, just that the free-pointed at 6750'.
<b>23</b>	Circulate with biocide treated fresh water to clean the hole. Pump until returns are clean.
<b>24</b>	TOOH, LD BHA.
<b>25</b>	PU and TIH with 8-5/8" bit and scraper. Clean surface casing from surface to 460'. TOOH, LD bit and scraper.
<b>26</b>	<b>6700' PLUG</b>

27	RIH w/ DP open-ended to 6700', or whatever depth the casing top . Establish circulation to surface with biocide treated fresh water and pump at least two hole-volumes to clean up wellbore.
28	MIRU cementers. Pump 310 sx (1.52 yld - 84 bbl or 471 cf) 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 700' in 9" bit size open hole with 50% excess factor. Cement planned for 6700'-6000'. Collect wet and dry samples of cement to be left on rig. RDMO Cementers. Notify engineering if circulation is ever lost during job.
29	Pull out of cement. TOOH to 4500'. Circulate tbg clean for a minimum of 2 bottoms up. TOOH. WOC.
30	<b>SUSSEX PLUG</b>
31	RIH w/ DP open-ended to tag previous plug to confirm coverage. Move up to 4300'. Establish circulation to surface with biocide treated fresh water and pump at least two hole-volumes to clean up wellbore.
32	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 9" bit size open hole with 50% excess factor. Cement planned for 4300'-3800'. Collect wet and dry samples of cement to be left on rig. RDMO Cementers. Notify engineering if circulation is ever lost during job.
33	Pull out of cement. TOOH to 2800'. Circulate tbg clean for a minimum of 2 bottoms up. TOOH. WOC.
34	<b>2600' PLUG</b>
35	RIH w/ DP open-ended to tag previous plug to confirm coverage. Move up to 2600'. Establish circulation to surface with biocide treated fresh water and pump at least two hole-volumes to clean up wellbore.
36	MIRU cementers. Pump 2600' Plug: Pump 280 sx (1.21 yld - 60 bbl or 339 cf) of the Lower AGM blend: Class G with 0.4% B547 Gas Block (Latex) and 1% S001 CC (Calcium Chloride) and 4% D053 Expansion (Gyp). Volume based on 500' in 9" bit size open hole with 50% excess factor. Cement planned for 2600'-2100'. Collect wet and dry samples of cement to be left on rig. RDMO Cementers. Notify engineering if circulation is ever lost during job.
37	Pull out of cement. TOOH to 1700'. Circulate tbg clean for a minimum of 2 bottoms up. TOOH. WOC.
38	<b>1600' PLUG</b>
39	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.
40	<b>COA: Prior to pumping cement into the Upper Pierre, verify all fluid migration has been eliminated. Contact engineering if pressure remains.</b>
41	MIRU cementers. Pump 280 sx (1.21 yld - 60 bbl or 339 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 500' in 9" bit size open hole with 50% excess factor. Cement planned for 1600'-1100'. Collect wet and dry samples of cement to be left on rig. RDMO Cementers. Notify engineering if circulation is ever lost during job.
42	Pull out of cement. TOOH to 300'. Circulate tbg clean for a minimum of 2 bottoms up. TOOH. WOC.
43	<b>SHOE/SURFACE PLUG</b>
44	<b>COA: Refer to shoe plug COA in approved Form 6</b>
45	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.
46	MIRU cementers. Pump Shoe Plug: Pump 420sx (1.21 yld - 91 bbl or 509 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). Volume based on 229' in 9" bit size open hole with 100% excess factor and 461' in 10-3/4" 32.75#. Cement planned for 700'-Surface'. Collect wet and dry samples of cement to be left on rig. RDMO Cementers. Notify engineering if circulation is ever lost during job.
47	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.

<b>48</b>	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.
<b>49</b>	Supervisor submit paper copies of all invoices, logs, and reports to Well Services Engineering Specialist.
<b>50</b>	Excavation crew to notify One Call to clear excavation area around wellhead and for flow lines.
<b>51</b>	Excavate hole around surface casing enough to allow welder to cut casing a minimum 5' below ground level.
<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.
<b>57</b>	Welder cut casing minimum 5' below ground level.
<b>58</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>59</b>	Obtain GPS location data and provide to GPS Teams page and OXY GIS database.
<b>60</b>	Back fill hole with fill. Clean location, and level.
<b>61</b>	Submit Form 6 Subsequent Report to Colorado ECMC ensuring to provide 'As performed' WBD identifying operations completed.