

OCCIDENTAL PETROLEUM CORPORATION

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

9/2/2021

**PLUG and ABANDONMENT PROCEDURE**

WEBBER 17-3

API: 05-123-23266



Step	Description
1	Review Previous Open Wells Reports/Well History. If you have questions or concerns, contact Foreman/Engineer.
2	<b>COA: Provide 48 hour notice to COGCC prior to rig up per request on approved Form 6 (e.g. call field coordinator, submit Form 42, etc.).</b>
3	Notify Automation Removal Group at least 24 hours prior to rig move. Request they catch and remove plunger, isolate production equipment, and remove any automation prior to rig MIRU.
4	MIRU Slickline. Pull production equipment and tag bottom. Record tag depth, casing/tubing pressures and fluid level in Open Wells. Gyro was run on 11/25/14. RDMO Slickline.
5	Prepare location for base beam equipped rig. Install perimeter fence as needed.
6	<b>COA: Verify Form 17 (State Bradenhead Test) has been run within 60 days of RU.</b>
7	<b>Refer to the Rockies Well Services Guidelines document whenever rigging up BOP and WL, or whenever tripping in or out of the well. Consult with Foreman/Engineer before deviating from these guidelines.</b>
8	Upon RU, check and record bradenhead pressure. If bradenhead valve is not accessible, re-plumb so that valve is above GL. Blow down bradenhead and leave open during working hours. Re-check pressure each day and input value in the "Casing press." box in Open Wells.
9	MIRU WO rig. Verify BOP and wellhead rating, inspect for appropriate API standards, pressure test BOP. Kill well as necessary using biocide treated fresh water. ND WH. NU BOP. Unland tbg. <b>**Barrier Management**</b> Fluid will be the only barrier while NU BOP. Stop and review JSA.
10	TOOH and SB 1500' of 2-3/8" tbg. LD remaining 2-3/8" tbg.
11	MIRU WL. PU and RIH with (4-1/2", 11.6#) gauge ring to 6990'. POOH.
12	PU and RIH with (4-1/2", 11.6#) CIBP and set at +/- 6980' (no CCL coverage here). POOH. Slowly top fill well to clear out all gas. Pressure test CIBP to 1000 psi. RIH and dump 2 sx cement on CIBP. POOH.
13	PU and RIH with (4-1/2", 11.6#) CIBP and set at +/- 4020' (no CCL coverage here). POOH. RIH and dump 2 sx cement on CIBP. POOH.
14	<b>COA: Confirm and document static conditions in the well before placing the next plug. If there is evidence of pressure or fluid migration at any time after placing the Sussex plug, contact Engineering.</b>
15	RIH and jet cut 4-1/2", 11.6# casing at 1500'. RDMO WL.
16	Attempt to establish circulation and circulate (49 bbl) with biocide treated fresh water.
17	ND BOP. ND TH. Un-land casing. Rig max pull shall be 100,000#. Max pull over string weight shall be 50,000#. If unable to unland, contact Foreman/Engineer. <b>**Barrier Management**</b> Fluid will be the only barrier while unlanding casing. Stop and review JSA.
18	Install BOP on casing head with 4-1/2", 11.6# pipe rams. <b>**Barrier Management**</b> Fluid will be the only barrier while NU BOP. Stop and review JSA.
19	TOOH and LD all 4-1/2", 11.6# casing. Remove 4-1/2", 11.6# pipe rams and install 2-3/8" pipe rams.
20	TIH with spiral diverter tool on 2-3/8" tubing to 1500'. Establish circulation to surface with biocide treated fresh water and pump at least two hole-volumes (99 bbl) to clean up wellbore.
21	MIRU cementers. Pump Upper Pierre Plug: Pump 110 sx (23.8 bbl or 134 cf) of the Upper AGM blend (1% CaCl & 4% Gyp, 15.8 ppg & 1.21 cf/sx). Volume based on 196' in 7.875" bit size open hole with 100% excess factor. Cement will be from 1500'-1304'. Collect wet and dry samples of cement to be left on rig. RDMO Cementers. Notify engineering if circulation is ever lost during job.
22	Pull out of cement. TOOH to 904'. Forward circulate tbg clean. WOC.
23	TIH with spiral diverter tool and tag TOC. TOOH to 685'. Establish circulation to surface and pump at least two hole-volumes (99 bbl) to clean up wellbore.
24	<b>COA: Verify and document that all pressure and fluid migration has been eliminated prior to placing the SC shoe plug at 685'. If there is evidence of pressure or fluid migration, contact Engineering.</b>

25	Pump Stub Plug: Pump 120 sx (25.9 bbl or 146 cf) of the Upper AGM blend (1% CaCl & 4% Gyp, 15.8 ppg & 1.21 cf/sx). Volume is based on 103' in 7.875" bit size open hole with 100% excess factor. 202' in the 8-5/8", 24# surface casing with no excess. The plug is designed to cover 685'-380'. Collect wet and dry samples of cement to be left on rig. RDMO Cementers. Notify engineering if circulation is ever lost during job.
26	<b>COA: If cement was not circulated to surface, then WOC 4 hours. Tag TOC. TOC must be 532' or shallower. If tag is too deep or there is evidence of pressure or fluid migration, contact Engineering.</b>
27	Pull out of cement. TOOH to 250'. Reverse circulate tbg clean with fresh water. Load hole with 20 bbls of heated surfactant to clean surface casing walls, wellhead, and surface valves/lines. WOC 4 hours.
28	Circulate out heated surfactant with freshwater. TIH and tag cement to verify appropriate coverage above the surface casing shoe. Notify engineering if tag is low.
29	TOOH to 250' laying down tbg and swab fluid level down.
30	MIRU Cementers. Pump Surface Plug: Pump 75 sx (16.2 bbl or 91 cf) of the Upper AGM blend (1% CaCl & 4% Gyp, 15.8 ppg & 1.21 cf/sx). Volume based on 250' inside 8-5/8", 24# surface casing with no excess. Cement will be from 250' to surface. Verify and document cement to surface. Collect wet and dry samples of cement to be left on rig.
31	Pull out of cement. TOOH, LD all but one joint of 2-3/8" tbg. Circulate clean with water to ensure TOC is low enough for C&C team. TOOH and LD final joint of 2-3/8" tbg. RDMO cementers. ND BOP. Install night cap. RDMO WO rig.
32	Instruct cementing and wireline contractors to e-mail copies of all job logs/job summaries to rscDJVendors@anadarko.com within 24 hours of completion of the job.
33	Supervisor submit paper copies of all invoices, logs, and reports to VWP Engineering Specialist.
34	Excavation crew to notify One Call to clear excavation area around wellhead and for flow lines.
35	Excavate hole around surface casing enough to allow welder to cut casing a minimum 5' below ground level.
36	Welder cut casing minimum 5' below ground level.
37	Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number.
38	Obtain GPS location data as per COGCC Rule 215 and send to rscDJVendors@anadarko.com.
39	Properly abandon flow lines per Rule 1103. File electronic Form 42 once abandonment is complete.
40	Back fill hole with fill. Clean location, and level.
41	Submit Form 6 to COGCC ensuring to provide 'As performed' WBD identifying operations completed.