

OCCIDENTAL PETROLEUM CORPORATION

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

5/4/2021

**PLUG and ABANDONMENT PROCEDURE**

DEWALT 19-41

API: 05-123-25807

WINS: C2121



**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 12/23/19. 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. Release packer set at 6661'. <b>**Barrier Management**</b> Fluid will be the only barrier while NU BOP. Stop and review JSA.
10	TOOH and SB 500' of 2-3/8" tbg. LD remaining 2-3/8" tbg and packer.
11	MIRU WL. PU and RIH with (4-1/2", 11.6#) gauge ring to 7040'. POOH.
12	PU and RIH with (4-1/2", 11.6#) CIBP and set at +/- 7030' (collars at 7022' & 7064'). POOH. RIH and dump 2 sx cement on CIBP. POOH.
13	PU and RIH with (4-1/2", 11.6#) CIBP and set at +/- 6660' (collars at 6637' & 6680'). POOH. Slowly top fill well to clear out all gas. Pressure test CIBP to 500 psi. 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 Niobrara plug, contact Engineering.</b>
15	PU and RIH with (4-1/2", 11.6#) CIBP and set at +/- 2000' (no CCL coverage here). POOH. RIH and dump 2 sx cement on CIBP. POOH. RDMO WL.
16	TIH with mule shoe on 2-3/8" tubing to 500'. Establish circulation to surface with biocide treated fresh water and circulate bottoms up.
17	<b>COA: Verify and document that all pressure and fluid migration has been eliminated prior to placing the SC shoe plug at 500'. If there is evidence of pressure or fluid migration, contact Engineering.</b>
18	Pump Fox Hills Balance Plug: Pump 40 sx (8.2 bbl or 46 cf) of the Neat G Cement (15.8 ppg & 1.15 cf/sx). Volume is based on 500' in 4-1/2", 11.6# production casing with no excess. The plug is designed to cover 500'-0'. Verify and document cement to surface. Collect wet and dry samples of cement to be left on rig.
19	<b>COA: If cement was not circulated to surface, then WOC 4 hours. Tag TOC. TOC must be 25' or shallower. If tag is too deep or there is evidence of pressure or fluid migration, contact Engineering.</b>
20	Pull out of cement. TOOH, LD all 2-3/8" tbg. PU and TIH with 16' of tbg subs. Top off cement to surface. Circulate clean. TOOH and LD tbg subs. RDMO cementers. ND BOP. Install night cap. RDMO WO rig.
21	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.
22	Supervisor submit paper copies of all invoices, logs, and reports to VWP Engineering Specialist.
23	Excavation crew to notify One Call to clear excavation area around wellhead and for flow lines.
24	Excavate hole around surface casing enough to allow welder to cut casing a minimum 5' below ground level.
25	Welder cut casing minimum 5' below ground level.

<b>26</b>	Fill 4-1/2", 11.6# casing x 8-5/8" annulus from 50' to surface with 11 sx (2.2 bbl or 12.4 cf) of cement (15.8 ppg & 1.15 cf/sx).
<b>27</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>28</b>	Obtain GPS location data as per COGCC Rule 215 and send to rscDJVendors@anadarko.com.
<b>29</b>	Properly abandon flow lines per Rule 1103. File electronic Form 42 once abandonment is complete.
<b>30</b>	Back fill hole with fill. Clean location, and level.
<b>31</b>	Submit Form 6 to COGCC ensuring to provide 'As performed' WBD identifying operations completed.

Deepest WW 1 mile: 200'; FHM: 547'; Sussex Top: 3889'; Sussex Base: 4099'; Shannon Base: 4606'; Niobrara Top: 6726'

WELL HAS GYRO. Gyro was run on 12/23/19.

No known casing integrity issues.

SUSSEX/SHANNON NOT PRODUCTIVE WITHIN 1 MILE

Well was drilled by Petro-Canada.

Vertical Well.