

Document Number:
 403666050
 Date Received:
 01/25/2024

WELL ABANDONMENT REPORT

This form is to be submitted as an Intent to Abandon whenever an abandonment is planned on a borehole. After the abandonment is complete, this form shall again be submitted as a Subsequent Report of the actual work completed. The approved intent shall be valid for six months after the approval date, after that period, a new intent will be required. Attachments required with the Intent to Abandon are wellbore diagrams of the current configuration and the proposed configuration with plugs set. A Subsequent Report of Abandonment shall indicate the actual work completed. Attachments required with a Subsequent Report are a wellbore diagram showing plugs that were set and casing remaining in the hole, the job summaries from all plugging contractors used, including wireline and cementing (third party verification) and any logs that may have been run during abandonment.

OGCC Operator Number: 47120 Contact Name: Lorena Ruiz
 Name of Operator: KERR MCGEE OIL & GAS ONSHORE LP Phone: (970) 336-3535
 Address: P O BOX 173779 Fax: _____
 City: DENVER State: CO Zip: 80217- Email: lorena_ruiz@oxy.com

For "Intent" 24 hour notice required, Name: Santistevan, Brittani Tel: (720) 471-1110
COGCC contact: Email: brittani.santistevan@state.co.us

Type of Well Abandonment Report: Notice of Intent to Abandon Subsequent Report of Abandonment

API Number 05-123-20969-00
 Well Name: OPEN Well Number: 10-25
 Location: QtrQtr: NWSE Section: 25 Township: 2N Range: 65W Meridian: 6
 County: WELD Federal, Indian or State Lease Number: _____
 Field Name: WATTENBERG Field Number: 90750

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.107550 Longitude: -104.609960
 GPS Data: GPS Quality Value: 2.6 Type of GPS Quality Value: PDOP Date of Measurement: 08/25/2007
 Reason for Abandonment: Dry Production Sub-economic Mechanical Problems
 Other _____
 Casing to be pulled: Yes No Estimated Depth: 1700
 Fish in Hole: Yes No If yes, explain details below
 Wellbore has Uncemented Casing leaks: Yes No If yes, explain details below
 Details: _____

Current and Previously Abandoned Zones

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth
CODELL	7190	7206			
J SAND	7628	7664			
NIOBRARA	6988	7080			

Total: 3 zone(s)

Casing History

Casing Type	Size of Hole	Size of Casing	Grade	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top	Status
CONDUCTOR	12+1/4	8+5/8	J-55	24	0	964	695	964	0	VISU
1ST	7+7/8	4+1/2	I-80	11.6	0	7786	220	7786	6445	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7300 with 2 sacks cmt on top. CIBP #2: Depth 300 with 90 sacks cmt on top.
 CIBP #3: Depth _____ with _____ sacks cmt on top. CIBP #4: Depth _____ with _____ sacks cmt on top.
 CIBP #5: Depth _____ with _____ sacks cmt on top.

NOTE: Two(2) sacks cement required on all CIBPs.

Set 5 sks cmt from 6958 ft. to 6895 ft. Plug Type: CASING Plug Tagged:
 Set 20 sks cmt from 3960 ft. to 3700 ft. Plug Type: CASING Plug Tagged:
 Set 40 sks cmt from 2550 ft. to 2050 ft. Plug Type: CASING Plug Tagged:
 Set 90 sks cmt from 300 ft. to 0 ft. Plug Type: CASING Plug Tagged:
 Set _____ sks cmt from _____ ft. to _____ ft. Plug Type: _____ Plug Tagged:

Perforate and squeeze at 6988 ft. with 95 sacks. Leave at least 100 ft. in casing 215 CICR Depth
 Perforate and squeeze at 4600 ft. with 215 sacks. Leave at least 100 ft. in casing 3960 CICR Depth
 Perforate and squeeze at 2550 ft. with 120 sacks. Leave at least 100 ft. in casing _____ CICR Depth
 (Cast Iron Cement Retainer Depth)

Set 330 sacks half in. half out surface casing from 1700 ft. to 914 ft. Plug Tagged:

Set 90 sacks at surface

Cut four feet below ground level, weld on plate Above Ground Dry-Hole Marker: Yes No

Set _____ sacks in rat hole Set _____ sacks in mouse hole

Additional Plugging Information for Subsequent Report Only

Casing Recovered: _____ ft. of _____ inch casing Number of Days from Setting Surface Plug to Capping or Sealing the Well: _____
 Surface Plug Setting Date: _____ Cut and Cap Date: _____
 *Wireline Contractor: _____ *Cementing Contractor: _____
 Type of Cement and Additives Used: _____
 Flowline/Pipeline has been abandoned per Rule 1105 Yes No

Technical Detail/Comments:

Signage for P&As:

Prior to commencing operations, KMG will post signs in conspicuous locations. The signs will indicate plugging and abandonment operations are being conducted, the well name, well, and the Operator's contact information. Signs will be placed so as not to create a potential traffic hazard.

Notifications:

Courtesy notifications will be sent to all parcel owners with building units within 1,500 feet of the location letting them know about out plugging and abandonment operations and providing contact information for Kerr McGee's response line and online resources.

Wellbore Pressure:

In some cases, wellbore pressure drawdown operations may occur approximately 1-2 days prior to Move In Rig Up (MIRU) of the workover rig. This is conducted to allow for reduced time that the workover rig is needed on location. These operations will be conducted in accordance with Form 4 and/or Form 6 requirements.

Water:

Water will be placed on dirt access roads to mitigate dust as needed.

Lighting:

Operations are daylight-only; no lighting impacts are anticipated from operations.

Noise:

Operations will be in compliance with Table 423-1 requirements. Based off the rig sound signature, rig orientation will be considered to reduce noise levels to nearby building units.

Environmental Concerns:

This location was reviewed using a desktop method to review publicly available wildlife data (including CPW & ECMC data) as well as internal wildlife datasets and aerial imagery. All field personnel are trained to identify wildlife risks and raise concerns noticed during operations with the KMOG Health, Safety, and Environment (HSE) department.

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: _____ Print Name: Lorena Ruiz
Title: Regulatory Tech Date: 1/25/2024 Email: lorena_ruiz@oxy.com

Based on the information provided herein, this Well Abandonment Report (Form 6) complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved: JENKINS, STEVE Date: 2/9/2024

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 8/8/2024

<u>COA Type</u>	<u>Description</u>
	<p>FLOWLINE AND SITE CLOSURE</p> <p>1) Consistent with Rule 911.a, a Form 27 must be approved prior to cut and cap, conducting flowline abandonment, or removing production equipment. Allow 30 days for Director review of the Form 27; include the Form 27 document number on the Form 44 for offsite flowline abandonment (if applicable) and on the Form 6 Subsequent.</p> <p>2) Properly abandon flowlines per Rule 1105. If flowlines will be abandoned in place, include with the Form 27: pressure test results conducted in the prior 12 months as well as identification of any document numbers for a ECMC Spill/Release Report, Form 19, associated with the abandoned line.</p>

	<p>1) Provide 2 business day notice of plugging MIRU via electronic Form 42, and provide 48 hours Notice of Plugging Operations, prior to mobilizing for plugging operations via electronic Form 42. These are 2 separate notifications, required by Rules 405.e and 405.l.</p> <p>2) Prior to placing the 1700' plug: verify that all fluid migration (liquid and gas) has been eliminated. If evidence of fluid migration or pressure remains, contact ECMC Engineer for an update to plugging orders.</p> <p>3) After isolation has been verified, pump surface casing shoe plug. If cement is not circulated to surface, shut-in, WOC 4 hours then tag plug – must be at 914' or shallower and provide 10 sx plug at the surface.</p> <p>4) Leave at least 100' of cement in the wellbore for each plug without mechanical isolation.</p> <p>5) After cut and prior to cap, verify isolation by either a 15 minute bubble test or 15 minute optical gas imaging recording. If there is indication of flow contact ECMC Engineering. Provide a statement on the 6SRA which method was used and what was observed. Retain records of final isolation test for 5 years.</p> <p>6) With the Form 6 SRA operator must provide written documentation which positively affirms each COA listed above has been addressed.</p>
	<p>Prior to starting plugging operations a Bradenhead test shall be performed if there has not been a reported Bradenhead test within the 60 days immediately preceding the start of plugging operations.</p> <p>1) If, before opening the Bradenhead valve, the beginning pressure is greater than 25 psi, sampling is required.</p> <p>2) If pressure remains at the conclusion of the test, or if any liquids were present during the test, sampling is required.</p> <p>The Form 17 shall be submitted within 10 days of the test. Sampling shall comply with Operator Guidance - Bradenhead Testing and Reporting Instructions. If samples are collected, copies of all final laboratory analytical results shall be provided to the ECMC within three (3) months of collecting the samples.</p>
	<p>Due to proximity to a mapped wetland and/or surface water, operator will use secondary containment for all tanks and other liquid containers. Operator will implement stormwater BMPs and erosion control measures as needed to prevent sediment and stormwater runoff from entering the wetland and surface water.</p>
	<p>Operator will implement measures to capture, combust, or control emissions to protect health and safety, and to ensure that vapors and odors from well plugging operations do not constitute a nuisance or hazard to public health, welfare and the environment. Due to the proximity of residential building units (RBUs) all blowdown gasses will be controlled.</p>
	<p>COA's provided by the operator as Best Management Practices under Technical Detail / Comments:</p> <p>Signage for P&As: Prior to commencing operations, KMG will post signs in conspicuous locations. The signs will indicate plugging and abandonment operations are being conducted, the well name, well, and the Operator's contact information. Signs will be placed so as not to create a potential traffic hazard.</p> <p>Notifications: Courtesy notifications will be sent to all parcel owners with building units within 1,500 feet of the location letting them know about out plugging and abandonment operations and providing contact information for Kerr McGee's response line and online resources.</p> <p>Noise: Operations will be in compliance with Table 423-1 requirements. Based off the rig sound signature, rig orientation will be considered to reduce noise levels to nearby building units.</p>
6 COAs	

Attachment List

<u>Att Doc Num</u>	<u>Name</u>
403666050	WELL ABANDONMENT REPORT (INTENT)
403666096	WELLBORE DIAGRAM
403666097	PROPOSED PLUGGING PROCEDURE
403682543	FORM 6 INTENT SUBMITTED

Total Attach: 4 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineer	If any changes during the plugging are needed, please email Steve Jenkins at Steve.Jenkins@state.co.us. Since Curtis is moving over to the UIC group, I am taking over his Intents. Thanks, Steve	02/09/2024
Engineer	1) Deepest Water Well within 1 mile = 867'. 2) Fox Hills Bottom- 160', per SB5.	02/09/2024
OGLA	OGLA review complete.	02/07/2024
Permit	selected PDOP from dropdown box Verified as drilled lat/long corrected attachment names - labels flipped on forms Verified completed intervals - 897496, 400124506 Verified production reporting pass	01/29/2024

Total: 4 comment(s)

OCCIDENTAL PETROLEUM CORPORATION

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

1/22/2024

PLUG and ABANDONMENT PROCEDURE

OPEN 10-25

API: 05-123-20969



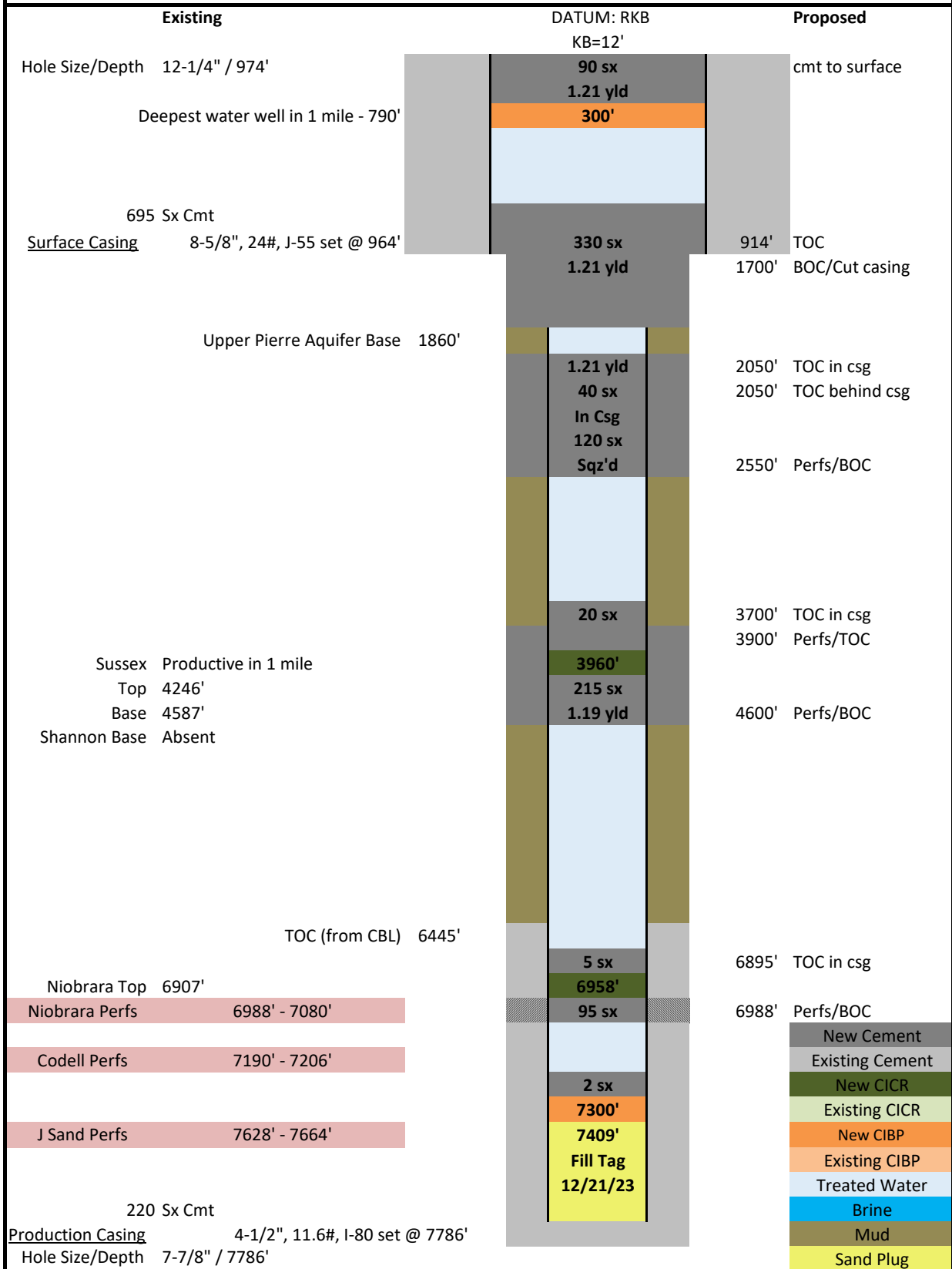
Step Description

1	Review Previous Open Wells Reports/Well History. If you have questions or concerns, contact Foreman/Engineer.
2	COA: Provide 48 hour notice to Colorado ECOM prior to rig up per request on approved Form 6 (e.g. call field coordinator, submit Form 42, etc.).
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 09/07/11. RDMO Slickline.
5	Prepare location for base beam equipped rig. Install perimeter fence as needed.
6	COA: Verify Form 17 (State Bradenhead Test) has been run within 60 days of RU.
7	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.
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 & CIBP
10	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. **Barrier Management** Fluid will be the only barrier while NU BOP. Stop and review JSA.
11	TOOH and SB 6958' of 2-3/8" tbg. LD remaining 2-3/8" tbg.
12	MIRU WL. PU and RIH with (4-1/2", 11.6#) gauge ring to 7310'. POOH.
13	PU and RIH with (4-1/2", 11.6#) CIBP and set at +/- 7300'. POOH. RIH and dump 2 sx cement on CIBP. POOH.
14	NIO INJECTION SQUEEZE
16	PU and TIH with (4-1/2", 11.6#) CICR on 2-3/8" tbg. Set CICR at 6958'.
17	MIRU cementers. Make sure the tubing annulus is loaded with water then attempt to establish injection max pressure 6160 psi with water. If it won't inject then sting out, load tubing with cement a bbl short of EOT then sting back in, in the next step. Max pressure is 3450 psi with tubing full of cement unless pressure is applied to annulus.
18	Pump Niobrara Injection Squeeze: 100 sx (27.1 bbl or 152 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). Underdisplace by 1 bbls. Volume is based on 30' in the casing below the CICR, cement squeezed into formation, and 63' on top of the CICR. Collect wet and dry samples of cement to be left on rig. RDMO cementers.
19	Pull out of cement and reverse clean with 2x bottoms up. TOOH, SB 3960' of 2-3/8" tbg. LD remaining tbg.
20	SUSSEX ROLL-OVER
21	MIRU WL. PU and RIH with two 4', 3-1/8" perf guns with 4 spf. Shoot 16 squeeze holes at 4600' and 16 squeeze holes at 3900'. RDMO WL.
22	PU and TIH with (4-1/2", 11.6#) packer on 2-3/8" tbg. Set packer at 3960'.
23	Initiate circulation at low rate monitoring returns for fluid. Add mud thinner to hydrate/clean mud. Slowly increase circulation rate to 4-6 BPM using mud thinner and gel polymer sweeps as needed.
24	Pump 50 bbls of 160F HSF (0.5 gals/bbl or 1.5 lbs/bbl) and let soak for ~2 hours. Continue circulating at 4-6 BPM if possible. If returns show hydrocarbons or a 1 hr build-up shows pressure, swab and vent well and clean open tank. Circulate clean fluid before pumping cement.
25	Release packer. TOOH, SB 2-3/8" tbg. LD packer.
26	PU and TIH with (4-1/2", 11.6#) CICR on 2-3/8" tbg. Set CICR at 3960'.

27	MIRU cementers. Pump 10 bbls (min) of pre-flush, followed by 5 bbls fresh water spacer. Pump Sussex Squeeze: 235 sx (49.9 bbl or 280 cf) of the Sussex AGM: Class G with 0.4% B547 Gas Block (Latex) and 2% D053 Expansion (Gyp) and 0.25% D255 FLA (Fluid Loss) 0.3% D065 (Dispersant). Underdisplace by 4 bbls. Volume is based on 640' in the casing below the CICR, 700' in the casing-hole annulus with 25% excess, and 260' on top of the CICR. Collect wet and dry samples of cement to be left on rig. RDMO Cementers.
28	Pull out of cement. TOOH to 3200'. Reverse circulate a minimum of 2 bottoms up.
29	TOOH and SB 1700' of 2-3/8" tbg. LD stinger, and remaining tbg.
30	UPPER PIERRE BALANCED CIRCULATION PLUG
31	MIRU WL. PU and RIH with one 4', 3-1/8" perf gun with 4 spf. Shoot 16 squeeze holes at 2550'. RDMO WL.
32	Initiate circulation at low rate monitoring returns for fluid. Add mud thinner to hydrate/clean mud. Slowly increase circulation rate to 4-6 BPM using mud thinner and gel polymer sweeps as needed.
33	Pump 35 bbls of 160F HSF (0.5 gals/bbl or 1.5 lbs/bbl) and let soak for ~2 hours.
34	Continue circulating at 4-6 BPM if possible. If returns show hydrocarbons or a 1 hr build-up shows pressure, swab and vent well and clean open tank. Circulate clean fluid before pumping cement.
35	MIRU cementers. Pump Squeeze: 160 sx (34.5 bbl or 194 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) down the casing. Volume is based on 500' in the casing-hole annulus with 25% excess, and 500' in the casing. Displace cement with Water to 2050'. Collect wet and dry samples of cement to be left on rig. RDMO Cementers.
36	Leave valves open to allow cement to balance between the production and surface casing.
37	COA: WOC 8 hours. If there is evidence of pressure or fluid migration, contact Engineering as there will need to be additional remediation attempts before the SC shoe plug.
38	TIH with 2-3/8" tubing and tag cement top to verify TOC inside production casing. TOOH and SB 1700' of tubing.
39	CUT AND PULL CASING
40	MIRU WL. RIH and jet cut 4-1/2", 11.6# casing at 1700'. RDMO WL.
41	Attempt to establish circulation with biocide treated fresh water. Circulate in 90 bbls of HSF and displace to the cut. Soak for 1+ hr then circulate out. This will cover all remaining HSF needs for this well.
42	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. **Barrier Management** Fluid will be the only barrier while unlanding casing. Stop and review JSA.
43	Install BOP on casing head with 4-1/2", 11.6# pipe rams. **Barrier Management** Fluid will be the only barrier while NU BOP. Stop and review JSA.
44	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.
45	SHOE PLUG
46	TIH with 2-3/8" tubing to 1700'. Establish circulation to surface with biocide treated fresh water.
47	Initiate circulation at low rate monitoring returns for fluid. Add mud thinner to hydrate/clean mud. Slowly increase circulation rate to 4-6 BPM using mud thinner and gel polymer sweeps as needed.
48	Continue circulating at 4-6 BPM if possible. If returns show hydrocarbons or a 1 hr build-up shows pressure, swab and vent well and clean open tank. Circulate clean fluid before pumping cement.
49	COA: Verify and document that all pressure and fluid migration has been eliminated prior to placing the SC shoe plug at 1700'. If there is evidence of pressure or fluid migration, contact Engineering.
50	MIRU cementers. Pump 10 bbls (min) of pre-flush, followed by 5 bbls fresh water spacer. Pump Surface Casing Shoe Plug: Pump 330 sx (71.2 bbl or 400 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 is based on 736' in 7.875" bit size open hole with 30% excess factor. 204' in the 8-5/8", 24# surface casing with no excess. The plug is designed to cover 1700'-760'. Plug length exceeds 500'. Consult with Foreman or Engineer on splitting up the plug. Collect wet and dry samples of cement to be left on rig. RDMO Cementers. Notify engineering if circulation is ever lost during job.
51	COA: If cement was not circulated to surface, then WOC 4 hours. Tag TOC. TOC must be 914' or shallower. If tag is too deep or there is evidence of pressure or fluid migration, contact Engineering.
52	Pull out of cement. TOOH to 360'. Circulate tbg clean with fresh water. TOOH & SB 300' of tubing. WOC 4 hours.
53	Note: Plug can be tagged after a 4 hour WOC, but must have a 6 hour WOC prior to pressure testing.

54	ND 7-1/16" BOP. NU 9" or 11" BOP. RIH with bit and scraper. Clean csg and tag TOC. Circulate Clean. POOH. PT casing to 500 psi. Contact engineering if test fails.
55	SURFACE PLUG
56	PU and RIH with (8-5/8", 24#) CIBP and set at 300'. POOH.
57	TIH with 2-3/8" tubing to 300'.
58	MIRU Cementers. Pump Surface Plug: Pump 90 sx (19.4 bbl or 109 cf) of the Surface AGM blend: Class G with 0.4% B547 Gas Block (Latex) and 2% S001 CC (Calcium Chloride) and 4% D053 Expansion (Gyp). Volume based on 300' inside 8-5/8", 24# surface casing with no excess. Cement will be from 300' to surface. Verify and document cement to surface. Collect wet and dry samples of cement to be left on rig.
59	TOOH and insert ~5' of 2-3/8" Tbg. Circulate FW to clean Csg & Csg Valves. LD final joint of 2-3/8" Tbg. RDMO cementers. ND BOP. Install night cap. RDMO WO rig.
60	Instruct cementing and wireline contractors to e-mail copies of all job logs/job summaries to DJVendors@oxy.com within 24 hours of completion of the job.
61	Supervisor submit paper copies of all invoices, logs, and reports to Well Services Engineering Specialist.
62	Excavation crew to notify One Call to clear excavation area around wellhead and for flow lines.
63	Excavate hole around surface casing enough to allow welder to cut casing a minimum 5' below ground level.
64	Welder cut casing minimum 5' below ground level.
65	Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number.
66	Obtain marker plate GPS location data and provide to GPS Teams page and Oxy GIS database.
67	If applicable, abandon flow lines per Rule 1105. File electronic Form 42 and/or Form 44 once abandonment is complete.
68	Back fill hole with fill. Clean location, and level.
69	Submit Form 6 Subsequent Report to CECMC ensuring to provide 'As performed' WBD identifying operations completed.

API:	05-123-20969	CREATED BY:	G. MACAULEY	DATE:	Jan 22, 2024
WELL NAME:	OPEN 10-25	ELEVATION:	4917	QTRQTR:	NWSE
COUNTY:	WELD	GROUND LEVEL:	4905	SEC:	25
LATITUDE:	40.1074929	MD:	7786	TWN:	2N
LONGITUDE:	-104.6098942	PBMD:	7756	RNG:	65W



- New Cement
- Existing Cement
- New CICR
- Existing CICR
- New CIBP
- Existing CIBP
- Treated Water
- Brine
- Mud
- Sand Plug