

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: CHERYL LIGHT
 Name of Operator: KERR MCGEE OIL & GAS ONSHORE LP Phone: (720) 929-6461
 Address: P O BOX 173779 Fax: (720) 929-7461
 City: DENVER State: CO Zip: 80217- Email: CHERYL.LIGHT@ANADARKO.COM

For "Intent" 24 hour notice required, Name: Carlile, Craig Tel: (970) 629-8279
COGCC contact: Email: craig.carlile@state.co.us

API Number 05-123-22207-00 Well Number: 14-36
 Well Name: VANCE
 Location: QtrQtr: SESW Section: 36 Township: 3N Range: 67W Meridian: 6
 County: WELD Federal, Indian or State Lease Number: _____
 Field Name: WATTENBERG Field Number: 90750

Notice of Intent to Abandon Subsequent Report of Abandonment

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.175440 Longitude: -104.840870
 GPS Data:
 Date of Measurement: 05/10/2006 PDOP Reading: 2.8 GPS Instrument Operator's Name: Steve Fisher
 Reason for Abandonment: Dry Production for Sub-economic Mechanical Problems
 Other _____
 Casing to be pulled: Yes No Estimated Depth: 1170
 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	7320	7334			
NIOBRARA	7060	7200			
Total: 2 zone(s)					

Casing History

Casing Type	Size of Hole	Size of Casing	Weight Per Foot	Setting Depth	Sacks Cement	Cement Bot	Cement Top	Status
SURF	12+1/4	8+5/8	24	948	665	948	0	VISU
1ST	7+7/8	4+1/2	11.6	7,481	470	7,481	3,364	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6990 with 30 sacks cmt on top. CIBP #2: Depth _____ with _____ 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 40 sks cmt from 4500 ft. to 4050 ft. Plug Type: CASING Plug Tagged:
Set _____ sks cmt from _____ ft. to _____ ft. Plug Type: _____ Plug Tagged:
Set _____ sks cmt from _____ ft. to _____ ft. Plug Type: _____ Plug Tagged:
Set _____ sks cmt from _____ ft. to _____ ft. Plug Type: _____ Plug Tagged:
Set _____ sks cmt from _____ ft. to _____ ft. Plug Type: _____ Plug Tagged:
Perforate and squeeze at _____ ft. with _____ sacks. Leave at least 100 ft. in casing _____ CICR Depth
Perforate and squeeze at _____ ft. with _____ sacks. Leave at least 100 ft. in casing _____ CICR Depth
Perforate and squeeze at _____ ft. with _____ sacks. Leave at least 100 ft. in casing _____ CICR Depth
(Cast Iron Cement Retainer Depth)
Set 190 sacks half in. half out surface casing from 1270 ft. to 740 ft. Plug Tagged:
Set 25 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 Plugging Date: _____
*Wireline Contractor: _____ *Cementing Contractor: _____
Type of Cement and Additives Used: _____
Flowline/Pipeline has been abandoned per Rule 1103 Yes No *ATTACH JOB SUMMARY

Technical Detail/Comments:

1. Provide 48 hr notice to COGCC prior to rig up per request on approved Form 6 (e.g. call field coordinator, submit Form 42, etc.). Call IOC (970-506-5980) at least 24 hr prior to rig move. Request they catch and remove plunger, isolate production equipment and remove any automation prior to rig MIRU.
2. MIRU slickline services. Pull bumper spring and tag bottom. RDMO slickline services.
3. Prepare location for base beam equipped rig. Install perimeter fence as needed.
4. Check and record Bradenhead pressure. If Bradenhead valve is not accessible, re-plumb so that valve is above GL.
5. MIRU WO rig. Kill well as necessary w/ water containing biocide. ND WH, NU BOP.
6. Unseat and LD landing joint by PU w/ 2-3/8" tbg (4.7#, J-55, 8rd EUE) to break any sand bridges. Do not exceed the safety tensile load of 57,384 lbs (80% of upset yield strength).
7. TOOH and SB +/- 6,990' of tbg, LD the remainder.
8. MIRU Wireline. PU gauge ring on wireline for 4-1/2" csg (11.6#, I-80, LTC) and RIH to 7,000'. POOH and LD gauge ring.
9. PU CIBP for 4-1/2" csg (11.6#, I-80, LTC). RIH and set CIBP at 6,990' (Note: Collars are at 7,000' & 6,971'). Pressure test CIBP to 1000 psi for 15 min. RDMO Wireline.
10. TIH 2-3/8" tbg and tag the CIBP (at +/- 6,990') while hydrotesting each stand to +/- 3000 psi. Pick up 5'.
11. MIRU Cementing Services. Spot 30 sx (+/- 41 cuft) of cmt (Class G w/ 20% silica flour, 0.4% CD-32, 0.4% ASA-301, and R-3 to achieve 2:30 pump time) mixed at 15.8 ppg and 1.38 cuft/sk from 6,990' to 6,650' on top of CIBP.
12. PUH w/ 2-3/8" tbg to +/- 6,000' (+/- 22 jts) and circulate tbg clean. PUH to +/- 4,500' while LD the remainder.
13. Spot a balanced plug of 40 sx (+/- 46 cuft) of cmt (Class G, 0.4% CD-32, 0.4% ASA-301) mixed at 15.8 ppg and 1.15 cuft/sk from 4,500' to 4,050' in 4-1/2", 11.6# csg. RDMO Cementing Services.
14. PUH to +/- 3,350 (+/- 22 jts) and circulate to clean tbg. WOC for 4 hours.
15. TIH w/ 2-3/8" tbg and tag TOC (+/- 4,050'). If TOC is deeper than 4,050' contact the engineer for possible further cement work. TOOH and SB +/- 1,300' of tbg and LD remainder.
16. MIRU wireline. PU a jet cutter on wireline and RIH to +/- 1,170' to cut 4-1/2" csg. Cut csg and circulate bottoms up. Continue to circulate to remove any gas in the wellbore. RDMO wireline.
17. ND BOP and tbg head. NU BOP on the surface csg head w/ 4-1/2" pipe rams. Install 3,000 psi ball valves on both csg head outlets. Install a choke or choke manifold on one outlet.
18. TOOH and LD the 4-1/2" csg. If unable to pull csg, contact the engineer and notify the COGCC.
19. Remove the 4-1/2" pipe rams and install 2-3/8" pipe rams on the BOP.
20. TIH w/ 2-3/8" tbg to +/- 1,270'.
21. MIRU Cementing Services. Pump 10 bbls of SAPP (Sodium Acid Pyrophosphate) followed by 20 bbls of fresh water containing biocide. Spot 190 sx (+/- 252 cuft) of cmt (Type III w/ cello flake and CaCl2 as deemed necessary) mixed at 14.8 ppg at 1.33 cuft/sk. Planned cement is from 1,270' to 1,170' stub plug in 4-1/2", 11.6# csg stub, 1,170' to 948' in 9" OH (plus 40% excess), and from 948' to 740' inside 8-5/8", 24# surface csg. PUH to 500' and circulate tbg clean. RDMO Cementing Services. WOC for 4 hrs.
22. TIH w/ 2-3/8" tbg and tag TOC and if TOC is deeper than 748' contact engineer for possible further cement work. TOOH and LD 2-3/8" tbg.
23. MIRU wireline. PU CIBP on wireline for 8-5/8" (24#) csg and TIH to +/- 80'. Set CIBP and test to 1000 psi for 15 min. POOH and LD wireline. RDMO wireline.
24. RDMO WO rig.
25. NOTE: Instruct cementing & wireline contractors to email copies of all job logs/job summaries & invoices to rscDJVendors@anadarko.com within 24 hours of the completion of the job.
26. Wellsite supervisor should turn all paper copies of cementing reports/invoices and logs into Joleen Kramer.
27. Have excavation contractor notify One-Call to clear for digging around wellhead and flowline removal.
28. Excavate hole around surface casing.

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

Signed: _____ Print Name: CHERYL LIGHT
 Title: SR. REGULATORY ANALYST Date: 9/21/2014 Email: DJREGULATORY@ANADARKO.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: SCHLAGENHAUF, MARK Date: 10/7/2014

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 4/6/2015

COA Type	Description
	1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU. 2) If unable to pull casing contact COGCC for plugging modifications. 3) For 1270' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 898' or shallower. 4) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete. 5) Please submit gyro survey data with Form 6 (s) Subsequent Report of Abandonment.

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400692084	FORM 6 INTENT SUBMITTED
400692085	WELLBORE DIAGRAM
400692086	PROPOSED PLUGGING PROCEDURE

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Well Completion Report Dated 11/02/2004.	10/1/2014 10:42:51 AM

Total: 1 comment(s)