

Document Number:
400689426

Date Received:
09/16/2014

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 05-123-24156-00

Well Name: REYNOLDS Well Number: 4-24

Location: QtrQtr: NWNW Section: 24 Township: 3N Range: 68W 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: 40.216358 Longitude: -104.957320

GPS Data:
Date of Measurement: 11/03/2007 PDOP Reading: 2.4 GPS Instrument Operator's Name: JAKE BELL

Reason for Abandonment: Dry Production for Sub-economic Mechanical Problems
 Other _____

Casing to be pulled: Yes No Estimated Depth: 870

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	7376	7390			
NIOBRARA	7116	7253			

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	770	570	770	0	VISU
1ST	7+7/8	4+1/2	11.6	7,521	580	7,521	3,275	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7060 with 25 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 35 sks cmt from 4380 ft. to 3970 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 125 sacks half in. half out surface casing from 970 ft. to 500 ft. Plug Tagged:
 Set 20 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. SB +/- 7,060' of tbg, LD the remainder.
8. MIRU Wireline. PU gauge ring on wireline and RIH to +/- 7,070'. POOH and LD gauge ring.
9. PU CIBP for 4.5" csg (11.6#, I-80, LTC). RIH and set CIBP at 7,060' (Note: Collars are at 7,030' & 7,072'). POOH and LD the setting tool. Pressure test CIBP to 1000 psi for 15 min. RDMO Wireline.
10. TIH w/ 2-3/8" tbg and tag the CIBP (at +/- 7,060') while hydrotesting each stand to +/- 3000 psi.
11. MIRU Cementing Services. Spot 25 sx 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 7,060' to 6,710' on top of CIBP.
12. PUH w/ 2-3/8" tbg to +/- 6,000' (+/- 22 jts) and circulate tbg clean. PUH to +/- 4,380', LD remainder.
13. Spot a balanced plug of 35 sx of cmt (Class G, 0.4% CD-32, 0.4% ASA-301) mixed at 15.8 ppg and 1.15 cuft/sk from 4,380' to 3,970' in 4-1/2" (11.6#, I-80, LTC) csg. RDMO Cementing Services.
14. PUH to +/- 3,350 (+/- 33 jts) and circulate to clean tbg. WOC for 4 hours.
15. TIH w/ 2-3/8" and tag TOC (+/- 3,970'). If cement is tagged below 3,970' contact the engineer for possible further cement work.
16. TOOH and SB +/- 970' of tbg and LD remainder.
17. MIRU wireline. PU a jet cutter on wireline and RIH to +/- 870' to cut 4-1/2" csg. Cut, TOOH, and LD csg. RDMO wireline.
18. TIH w/ 2-3/8" tbg to +/- 970'.
19. MIRU Cementing Services. Pump 10 bbls of SAPP (Sodium Acid Pyrophosphate) followed by 20 bbls of fresh water containing biocide. Spot 125 sx 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 970' to 870' stub plug in 4-1/2", 11.6# csg stub, 870' to 770' in 7-7/8" OH (plus 60% excess), and from 770' to 500' inside 8-5/8", 24# surface csg. PUH to 250' and circulate tbg clean. RDMO Cementing Services. WOC for 4 hrs.
20. TIH w/ 2-3/8" tbg and tag TOC and if TOC is deeper than 500' contact engineer for possible further cement work. TOOH and LD 2-3/8" tbg.
21. 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.
22. RDMO WO rig.
23. 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.
24. Wellsite supervisor should turn all paper copies of cementing reports/invoices and logs into Joleen Kramer.
25. Have excavation contractor notify One-Call to clear for digging around wellhead and flowline removal.
26. Excavate hole around surface casing enough to allow welder to cut 8-5/8" casing minimum 5' below ground level.
27. Welder cut 8-5/8" casing minimum 5' below ground level.
28. MIRU ready cement mixer. Fill the last 80' inside the 8-5/8" prod. casing until 10' below surface. Use 4,500 psi compressive strength redi-mix cement (Sand and Cement only, no gravel) to finish filling surface casing to top of cut off.
29. Have welder spot weld on steel marker plate. (Note: marker shall be labeled with well name and number, legal location (¼ ¼ description) and API

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: 9/16/2014 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: 10/1/2014

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 3/31/2015

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 970' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 700' or shallower. 4) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400689426	FORM 6 INTENT SUBMITTED
400689427	PROPOSED PLUGGING PROCEDURE
400689429	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Well Completion Report Dated 5/4/2007.	9/25/2014 2:34:21 PM

Total: 1 comment(s)