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08/21/2014

**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: (303) 8942100

**COGCC contact:** Email: craig.carlile@state.co.us

API Number 05-123-16059-00

Well Name: HSR-BRINTON Well Number: 14-10A

Location: QtrQtr: SESW Section: 10 Township: 3N Range: 66W 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: 40.234070 Longitude: -104.765780

GPS Data:  
Date of Measurement: 08/31/2006 PDOP Reading: 3.2 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: 1230

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
J SAND	7810	7840			
NIOBRARA	7047	7238			

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	467	325	467	0	VISU
1ST	7+7/8	4+1/2	11.6	7,464	170	7,464	6,470	CBL
S.C. 1.1	7+7/8	4+1/2	11.6	7,464	145	6,050	5,240	CBL
1ST LINER	3+7/8	2+7/8	6.5	7,967	35	7,967	7,408	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7750 with 1 sacks cmt on top. CIBP #2: Depth 6974 with 25 sacks cmt on top.  
CIBP #3: Depth 80 with 20 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 \_\_\_\_\_ 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:   
Set \_\_\_\_\_ sks cmt from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Plug Type: \_\_\_\_\_ Plug Tagged:

Perforate and squeeze at 4730 ft. with 250 sacks. Leave at least 100 ft. in casing 4160 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 420 sacks half in. half out surface casing from 1330 ft. to 265 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:

Perforate and squeeze at 4730 & 4130 ft. with 250 sacks Leave at least 100 ft. in casing 4160 CICR Depth

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. 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 2-3/8" tbg and LD 1.66" tbg. NOTE: 1.66" OD stinger extends from 7,395'-7,783' (375' into the 2-7/8" liner).
8. MIRU Wireline. RIH w/ gauge ring/junk basket for 2-7/8", 6.5# casing to 7,760'. POOH and LD gauge ring/junk basket.
9. PU CIBP for 2-7/8" (6.5#, N-80, 8RD EUE) pipe and RIH on wireline to +/- 7,750'. Set CIBP in the liner and spot 1 sk of cmt on top of the CIBP. POOH wireline.
10. PU gauge ring for 4.5" csg (11.6#, I-70, LTC) on wireline and RIH to +/- 7,000'. POOH and LD gauge ring.
11. PU and RIH a CIBP for 11.6#, I-70, LTC csg on wireline at 6,974'. Set CIBP and pressure test to 1000 psi for 15 min. RDMO wireline.
12. TIH 2-3/8" tbg to +/- 6,974' (+/- 225 jts) while hydrotesting each joint to +/- 3000 psi and tag CIBP.
13. 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 6,974' to 6,574'.
14. PUH w/ 2-3/8" tbg to +/- 6,300' (+/- 22 jts) and circulate tbg clean. POOH, SB 134 jts of tbg, LD remainder.
15. MIRU Wireline. PU and RIH two 1' perf guns (3-1/8", 3 spf, "Big Hole" 0.6" EHD, 7" penetration, 120o phasing, 2' net, 6 total holes) to 4,730'. Perf bottom squeeze holes at 4,730' then PUH to 4,130' and perf top squeeze holes in 4.5" prod csg. POOH perf guns. RDMO wireline.
16. PU CICR for 4.5" csg (11.6#, I-70, LTC) on 2-3/8" tbg. TIH and set at +/- 4,160' (+/- 134 jts).
17. MIRU Cementing Services. Pump 5 bbls of fresh water, 20 bbls of metalillicate, and 5 bbls of fresh water followed with 250 sx of cmt (Class G w/ 0.25 pps cello flake, 0.4% CD-32, 0.4% ASA-301) mixed at 15.8 ppg and 1.15 cuft/sk. Under displace by 3bbls of cement, sting out of CICR and dump cmt on CICR. PUH to +/- 3,400 (+/- 24 jts) and circulate to clean tbg. TOOH and SB 46 jts of tbg and LD remainder. Planned cement is from 4,730' to 4,130' in 9" OH (plus 20% excess) & from 4,730' to 4,000' in 4.5", 11.6# csg. RDMO Cementing Services.
18. MIRU wireline. PU a jet cutter and RIH to +/- 1,230' to cut 4.5" csg. Cut, TOOH, and LD csg. RDMO wireline.
19. TIH w/ 2-3/8" tbg to +/- 1,330' (+/- 43 jts).
20. MIRU Cementing Services. Pump 10 bbls of SAPP (Sodium Acid Pyrophosphate) followed by 20 bbls of fresh water containing biocide prior to pumping cement. Spot 420 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 1,330' to 1,230' stub plug in 4.5", 11.6# csg stub, 1,230' to 467' in 9" OH (plus 20% excess), and from 467' to 265' inside 8.625", 24# surface csg. PUH to 150' and circulate tbg clean. RDMO Cementing Services. WOC for 4 hrs.
21. Tag TOC and if TOC is deeper than 265' contact engineer for possible further cement work. TOOH and LD 2-3/8" tbg.
22. 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.
23. RDMO WO rig.

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: 8/21/2014 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: 8/26/2014

**CONDITIONS OF APPROVAL, IF ANY:** \_\_\_\_\_ Expiration Date: 2/25/2015

COA Type	Description
	<ol style="list-style-type: none"> <li>1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU.</li> <li>2) If unable to pull casing contact COGCC for plugging modifications.</li> <li>3) For 1330' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 417' or shallower.</li> <li>4) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.</li> <li>5) Please submit gyro survey data with Form 6 (s) Subsequent Report of Abandonment.</li> <li>6) Cemented interval visible on CBL but COGCC has no record of cementing with 145 sxs from approximately 6050' to 5240'. Please submit relevant operations summary with form 6 (s) Subsequent Report of Abandonment.</li> </ol>

## Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
1696318	WELLBORE DIAGRAM
400670270	FORM 6 INTENT SUBMITTED
400670475	PROPOSED PLUGGING PROCEDURE

Total Attach: 3 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Received and attached wellbore diagram.	8/25/2014 12:45:22 PM
Permit	Well Completion Reports dated 12/8/1992 & 7/31/2001. ON HOLD: unable to open Wellbore diagram.	8/22/2014 8:25:00 AM

Total: 2 comment(s)