

Document Number:  
400569111

Date Received:  
03/10/2014

**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: JOHNSON, RANDELL Tel: (303) 815-9641

**COGCC contact:** Email: randell.johnson@state.co.us

API Number 05-123-10238-00

Well Name: HAROLD R. MIXON GAS UNIT Well Number: 2

Location: QtrQtr: NESE Section: 25 Township: 2N 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: 40.106190 Longitude: -104.833480

GPS Data:  
Date of Measurement: 06/04/2008 PDOP Reading: 2.7 GPS Instrument Operator's Name: Coddy Mattson

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

Casing to be pulled:  Yes  No Estimated Depth: 1420

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	7915	7950			

Total: 1 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	668	475	668	0	VISU
1ST	7+7/8	4+1/2	11.6/10.5	8,080	200	8,080	7,255	CALC

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7860 with 2 sacks cmt on top. CIBP #2: Depth 100 with 23 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 540 sks cmt from 1520 ft. to 460 ft. Plug Type: STUB PLUG 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 6760 ft. with 150 sacks. Leave at least 100 ft. in casing 6790 CICR Depth

Perforate and squeeze at 4230 ft. with 410 sacks. Leave at least 100 ft. in casing 4260 CICR Depth

Perforate and squeeze at \_\_\_\_\_ ft. with \_\_\_\_\_ sacks. Leave at least 100 ft. in casing \_\_\_\_\_ CICR Depth

(Cast Iron Cement Retainer Depth)

Set 540 sacks half in. half out surface casing from 1520 ft. to 460 ft. Plug Tagged:

Set 23 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 7240 / 6760 ft. with 150 sacks Leave at least 100 ft. in casing 6790' CICR Depth  
Perforate and squeeze at 4840 / 4230 ft. with 410 sacks Leave at least 100 ft. in casing 4260' CICR Depth

8 MIRU WL. RIH gauge ring for 4 1/2" 11.6#/ft casing to 7915'.  
9 RIH CIBP w/ WL. Set at 7820'. PU dump bailer, dump bail 2 sx class 'G' cement on CIBP. PT Casing to 1000 psi.  
10 Run CBL from CIBP to Surface. Send results to Mark.Hinaman@anadarko.com immediately. RDWL.  
11 PU 2 - 1' 3-1/8" perf guns with 3 spf, 0.5" dia 120° phasing. Shoot 1' of squeeze holes at 7240' and 6760'. Adjust perf heights according to cement location on CBL. Desired bottom perf is 20' above TOC; Desired top perf is 400' above 7168' (Niobrara Top).  
12 PU CICR. RIH and set at 6790'+/-20' pending collar locator on CBL. RD WL.  
13 RIH w/ 2 3/8 " tubing while hydrotesting to 3,000 psi.  
14 RU Cementers. Pump Niobrara Suicide: 160 sx 50/50 Poz "G" w/ 20% silica flour, 3% gel, 0.1% sodium metasilicate and 0.4% FL-52 mixed at 13.5 ppg and 1.71 cf/sk (43.7 bbls) (9 1/4 " + 20% Caliper Log in file) to place suicide squeeze between perfs. Underdisplace and sting out of CICR to leave 3 bbls on top of retainer.  
15 PUH 6 stands. Circulate 95 bbls water containing biocide to clear tubing.  
16 Place 9.0 ppg mud containing biocide from 6600' to 4840' (~29 bbls). TOO H & WOC 4 hrs.  
17 RUWL & PU 2 - 1' 3-1/8" perf guns with 3 spf, 0.5" dia 120° phasing. Shoot 1' of squeeze holes at 4840' and 4230'.  
18 PU CICR. RIH and set at approximately 30' below the top perf pending collar locator on CBL. RD WL.  
19 RIH w/ 2 3/8 " tubing.  
20 RU Cementers. Pump 5 bbl water w/ biocide, 20 bbl Sodium Metasilicate, and another 5 bbl spacer immediately preceding cement.  
21 Pump SX Suicide: 410 sx class "G", w/0.25 pps cello flake, 0.4% CD-32, 0.4% ASA-301 mixed at 15.8 ppg and 1.15 cf/sx (80.7 bbls) (11 "+20% Caliper Log in file) to place suicide squeeze between perfs. Underdisplace and sting out of CICR to leave 3 bbls on top of retainer.  
22 PUH 5 stands. Circulate 60 bbls water containing biocide to clear tubing.  
23 Place 9.0 ppg mud containing biocide from 4080' to 1520' (~41 bbls). TOO H & WOC 4 hrs.  
24 RU WL. Crack coupling or shoot off casing at or below 1420'. RDMO WL. Circulate a full circulation with water containing biocide to remove any gas.  
25 NDBOP, NDTH.  
26 Install BOP on casing head with 4 1/2" pipe rams.  
27 TOO H with 4 1/2" casing, LD.  
28 RIH with 2 3/8 " tubing to 1520'.  
29 RU Cementers. Spot Stub Plug: 540 sx Type III CaCl2 cement w/ 0.25 pps cello flake mixed at 14.0 ppg and 1.53 cf/sx (146.4 bbls) (100' in 4 1/2" prod casing, 752' in 12 1/4" OH + 20% Caliper Log, and 208' in 8 5/8" surface casing).  
30 Circulate 5 bbls water containing biocide to clear tubing.  
31 TOO H. WOC 4 hrs. Tag Cement. Cement top needs to be above 568'; Proceed assuming TOC is above 568'. Otherwise, call production engineer.  
32 MIRU WL. RIH 8 5/8" CIBP to 100'. Set, PT to 1000 psi for 15 min. If tests, RDMO WL and WO rig.  
33 Instruct cementing and wireline contractors to e-mail copies of all job logs/job summaries and invoices to rscDJVendors@anadarko.com within 24 hrs of the completion of the job.  
34 Supervisor submit paper copies of all invoices, logs, and reports to Joleen Kramer.  
35 Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.  
36 Excavate hole around surface casing enough to allow welder to cut 8 5/8" casing minimum 5' below ground level.  
37 Welder cut 8 5/8" casing minimum 5' below ground level.  
38 MIRU ready cement mixer. Use 4500 psi compressive strength cement, (NO gravel) fill stubout.  
39 Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number.  
40 Properly abandon flowlines per Rule 1103.  
41 Back fill hole with fill. Clean location, level.  
42 Submit Form 6 to COGCC ensuring to provide 'As performed' WBD.

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: 3/10/2014 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: 3/20/2014

**CONDITIONS OF APPROVAL, IF ANY:** \_\_\_\_\_ Expiration Date: 9/19/2014

<u>COA Type</u>	<u>Description</u>
	<p>Note changes in plugging procedure:</p> <ol style="list-style-type: none"> <li>1) Provide 48 hour notice of plugging MIRU via electronic Form 42.</li> <li>2. Move CIBP #1 from 7820' down to to 7860'.</li> <li>3) No CBL on file. Run CBL to verify the top of primary cement is at least 200' over Niobrara, at least 50' below Sussex to 200' above Sussex, and adequately isolates the Fox Hills aquifer. If cement does not exist as required, provide this coverage as part of this plugging project.</li> <li>3) If unable to pull casing contact COGCC for plugging modifications.</li> <li>4) For 1520' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 600' or shallower.</li> <li>5) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.</li> </ol>

**Attachment Check List**

<u>Att Doc Num</u>	<u>Name</u>
400569111	FORM 6 INTENT SUBMITTED
400569112	PROPOSED PLUGGING PROCEDURE
400569113	WELLBORE DIAGRAM

Total Attach: 3 Files

**General Comments**

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Well Completion report dated 12/14/1981.	3/11/2014 11:18:24 AM

Total: 1 comment(s)