FORM 6 Rev 12/05

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109

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Document Number: 400560619

Date Received: 02/22/2014

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, COGCC contact: Name: JOHNSON, RANDELL Tel: (303) 815-9641 Email: randell.johnson@state.co.us

API Number 05-123-10062-00

Well Name: ROCKY MTN FUEL CO UNIT G Well Number: 2

Location: QtrQtr: CNW Section: 9 Township: 1N 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: 40.069000 Longitude: -104.900900

GPS Data:

Date of Measurement: 02/27/2007 PDOP Reading: 1.9 GPS Instrument Operator's Name: Chris Fisher

Reason for Abandonment: ☐ Dry ☒ Production for Sub-economic ☐ Mechanical Problems

☐ Other

Casing to be pulled: ☐ Yes ☒ No Estimated Depth:

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	8123	8150			

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	290	250	290	0	VISU
1ST	7+7/8	4+1/2	10.5/11.6	8,270	225	8,270	7,466	CALC
S.C. 1.1				8,270	275	660	0	CALC

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 8040 with 2 sacks cmt on top. CIPB #2: Depth 100 with 10 sacks cmt on top.

CIBP #3: Depth _____ with _____ sacks cmt on top. CIPB #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 6930 ft. with 160 sacks. Leave at least 100 ft. in casing 6960 CICR Depth

Perforate and squeeze at 4395 ft. with 520 sacks. Leave at least 100 ft. in casing 4425 CICR Depth

Perforate and squeeze at 680 ft. with 470 sacks. Leave at least 100 ft. in casing 710 CICR Depth

(Cast Iron Cement Retainer Depth)

Set _____ sacks half in. half out surface casing from _____ ft. to _____ ft. Plug Tagged: ☐

Set _____ sacks at surface

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

Set 10 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 7456 / 6930 ft. with 160 sacks Leave at least 100 ft. in casing 6960 CICR Depth
Perforate and squeeze at 5250 / 4395 ft. with 520 sacks Leave at least 100 ft. in casing 4425 CICR Depth
Perforate and squeeze at 1412 / 680 ft. with 470 sacks Leave at least 100 ft. in casing 710 CICR Depth
ROCKY MTN FUEL CO G #2
2 MIRU slickline services. Pull bumper spring and tag bottom. Gyro ran 7/29/2013. RDMO slickline services.
3 Notify IOC when rig mobilizes to location to generate workorder for flowline removal & one call for line locates.
4 Prepare location for base beam equipped rig.
5 MIRU, kill as necessary using clean fresh water with biocide and circulate. ND WH. NU BOP. Unseat landing jt, LD.
6 Notifty cementers to be on call. Provide volumes listed below:
6_1 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 (45.2bbls) (9"+ 20% Caliper Log in file);
6_2 SX/SH Suicide: 520 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 (102.9bbls) (10.5"+20% Caliper Log in file);
6_3 Surface Suicide: 470 sx Type III CaCl2 cement mixed at 14.0 ppg and 1.53 cf/sx (116.8bbls) (732' in 12" OH+20% excess, 702' inside 4.5" production casing, and 9 bbls on top of CICR)
7 TOOH 2.375" production tubing. Stand Back.
8 MIRU WL. RIH gauge ring for 4.5" 11.6#/ft casing to 8120'. RIH CIBP w/ WL. Set at 8040'. PT Casing to 1000 psi. PU dump bailer, dump bail 2 sx class 'G' cement on CIBP.
9 Run CBL from CIBP to Surface.
10 PU 2 - 1' 3-1/8" perf guns with 3 spf, 0.5" dia 120° phasing. Shoot 1' of squeeze holes at 7456' and 6930'.
11 PU CICR. RIH and set at 6960'+/-20' pending collar locator on CBL. RD WL.
12 RIH w/ 2.375" tubing while hydrotesting to 3,000 psi.
13 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 (45.2bbls) (9"+ 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.
14 PUH 6 stands. Circulate 95bbls water containing biocide to clear tubing.
15 Place 9.0 ppg mud containing biocide from 6772' to 5250' (~25bbls). TOOH & WOC 4 hrs.
16 RUWL & PU 2 - 1' 3-1/8" perf guns with 3 spf, 0.5" dia 120° phasing. Shoot 1' of squeeze holes at 5250' and 4395'.
17 PU CICR. RIH and set at 4425'+/-20' pending collar locator on CBL. RD WL.
18 RIH w/ 2.375" tubing.
19 RU Cementers. Pump 5 bbl water w/ biocide, 20 bbl Sodium Metasilicate, and another 5 bbl spacer immediately preceding cement.
20 Pump SX/SH Suicide: 520 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 (102.9bbls) (10.5"+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.
21 PUH 5 stands. Circulate 60bbls water containing biocide to clear tubing. TOOH & WOC 4 hrs.
22 Place 9.0 ppg mud containing biocide from 4235' to 1412' (~46bbls). TOOH & WOC 4 hrs.
23 RUWL & PU 2 - 1' 3-1/8" perf guns with 3 spf, 0.5" dia 120° phasing. Shoot 1' of squeeze holes at 1412' and 680'.
24 PU CICR. RIH and set at 710'+/-20' pending collar locator on CBL. RD WL.
25 RIH w/ 2.375" tubing.
26 RU Cementers. Pump Surface Suicide: 470 sx Type III CaCl2 cement mixed at 14.0 ppg and 1.53 cf/sx (116.8bbls) (732' in 12" OH+20% excess, 702' inside 4.5" production casing, and 9 bbls on top of CICR) to place suicide squeeze between perfs. Underdisplace and sting out of CICR to leave 9 bbls on top of retainer.
27 TOOH circulating as necessary to clear tubing. WOC 4 hrs. Tag Cement. Cement top needs to be above 150'; Proceed assuming TOC is above 150'. Otherwise, call production engineer.
28 MIRU WL. RIH 4.5" CIBP to 100'. Set, PT to 1000 psi for 15 min. If tests, RDMO WL and 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: 2/22/2014 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: 2/24/2014

CONDITIONS OF APPROVAL, IF ANY: Expiration Date: 8/23/2014

COA Type	Description
	1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU. 2)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 50' above Sussex, and adequately isolates the Fox Hills aquifer. If it does not exist as required, provide this coverage as part of this plugging project. Use CBL results to verify the setting depth of and stage cement pumped through the DV tool. Add cement, as needed, to provide cement from 660' to at least 50' within the surface casing shoe. 3) Leave at least 100' cement in the wellbore for each plug. 4) For 1412' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 240' or shallower. 5) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete. 6) Please submit gyro survey data with Form 6 (s) Subsequent Report of Abandonment.

Attachment Check List

Att Doc Num	Name
400560619	FORM 6 INTENT SUBMITTED
400560620	PROPOSED PLUGGING PROCEDURE
400560621	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date
Permit	Well Completin report dated 4/08/1981.	2/24/2014 10:13:47 AM

Total: 1 comment(s)