

FORM
6Rev
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:

400754330

Date Received:

12/17/2014

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: Precup, Jim

Tel: (303) 726-3822

COGCC contact:

Email: james.precup@state.co.us

API Number 05-123-08426-00

Well Name: SAM FUNAKOSHI GAS UNIT

Well Number: 1

Location: QtrQtr: NWNE Section: 36 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: 40.098590

Longitude: -104.835550

GPS Data:

Date of Measurement: 06/18/2008

PDOP Reading: 2.7

GPS Instrument Operator's Name: Cody Mattson

Reason for Abandonment:

☐ Dry☒ Production for Sub-economic☐ Mechanical Problems☐ OtherCasing to be pulled: ☒ Yes☐ No

Estimated Depth: 320

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	7930	7968			

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	217	225	225	0	VISU
1ST	7+7/8	4+1/2	11.6	8,040	200	8,040	6,982	CALC
S.C. 1.1				616	300	616	307	VISU

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7875 with 2 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 135 sks cmt from 420 ft. to 100 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 6970 ft. with 100 sacks. Leave at least 100 ft. in casing 6730 CICR Depth

Perforate and squeeze at 4890 ft. with 450 sacks. Leave at least 100 ft. in casing 4310 CICR Depth

Perforate and squeeze at 1410 ft. with 560 sacks. Leave at least 100 ft. in casing 665 CICR Depth

(Cast Iron Cement Retainer Depth)

Set 135 sacks half in. half out surface casing from 420 ft. to 100 ft. Plug Tagged: ☒

Set 135 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:

5 MIRU workover rig and an additional 20 jts 2-3/8" J-55 4.7# for replacement. Circulate down tubing with water w/ biocide to kill the well. ND wellhead. NU BOPs. Unseat landing jt.

6 TOO and stand back 2-3/8" production tubing.

7 RIH with casing scraper for 4 1/2" 11.6#/ft casing to 7930' while hydrotesting to 3,000 psi, replacing joints as necessary.

8 RIH w/ CIBP on 2-3/8" tbq and set at 7875'. Circulate all gas from the wellbore with water w/ biocide to ensure CBL quality close to surface. PT Casing to 1000 psi. PUH and SB 218 joints (or at least 6730') of 2-3/8" tbq.

9 MIRU WL. Run CBL/CCL to verify cement coverages and collar locations from PBD of 7875' to surface. Send results to Michael.Schwarz@Anadarko.com

10 PU dump bailer, dump bail 2 sx class 'G' cement on CIBP.

11 PU 2 - 1' 3-1/8" perf guns with 3 spf, 0.5" dia 120° phasing. Shoot 1' of squeeze holes at 6970' and 6700'. Adjust perf heights according to cement location on CBL. Desired bottom perf is 20' above TOC; Desired top perf is at least 400' above 7190' (Niobrara Top).

12 PU 4-1/2" CICR and RIH w/2-3/8" tbq and set at approximately 6730', or 30' below the top squeeze perf per CCL results.

13 RU Cementers. Establish circulation w/ water treated with biocide through sqz holes then pump Niobrara Suicide: 100 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 (18.1 bbls) (9 3/4" + 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. Cement planned from 6970' to 6700' in annulus and 6970' to 6540' in 4.5" csg.

14 PUH 6 stands. Circulate hole clean with fresh water w/ biocide.

15 MIRU wireline & PU 2 - 1' 3-1/8" perf guns with 3 spf, 0.5" dia 120° phasing. Shoot 1' of squeeze holes at 4890' and 4280'. RDMO wireline.

16 PU 4-1/2" CICR and RIH w/2-3/8" tbq and set at approximately 4310', or 30' below the top squeeze perf per CCL results.

17 RU Cementers. Establish circulation with fresh water and biocide through sqz holes. Pump 5 bbl water w/ biocide, 20 bbl Sodium Metasilicate, and another 5 bbl spacer immediately preceding cement.

18 Pump SX Suicide: 450 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 (88.7 bbls) (11 1/2" +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. Cement planned from 4890' to 4280' in annulus and from 4890' to 4130' in 4.5" csg.

19 PUH 5 stands. Circulate hole clean w/ fresh water w/ biocide.

20 MIRU wireline & PU 2 - 1' 3-1/8" perf guns with 3 spf, 0.5" dia 120° phasing. Shoot 1' of squeeze holes at 1410' and 635'.

21 PU 4-1/2" CICR and RIH w/2-3/8" tbq and set at approximately 665', or 30' below the top squeeze perf per CCL results.

22 RU Cementers. Establish circulation w/ water treated with biocide through sqz holes. Pump 5 bbls fresh water followed by 10 bbls SAPP followed by 20 bbls fresh water spacer. Pump Surface Suicide: 560 sx Type III cement w/ cello flake and CaCl2 as deemed necessary mixed at 14.8 ppg and 1.33 cf/sx (129.2 bbls) (1410'-475' inside 4 1/2" csg and 1410'-635' in 12 1/4" OH + 20% excess, and 3 bbls on top of CICR) to place suicide squeeze between perfs. Pump all but 3 bbls. Sting out of CICR and spot 3 bbls on top of retainer.

23 TOO circulating as necessary with water treated with biocide to clear tubing.

24 MIRU WL. Crack coupling or shoot off casing at 300' or as deep as possible based on CBL results. 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 with 4 1/2" casing, LD.

28 RIH with 2 3/8" tubing to 420', or 100' into 4-1/2" csg stub.

29 RU Cementers. Pump mud flush of 10 bbls SAPP and 20 bbl water ahead of spotting Stub Plug: 135 sx Type III cement w/cello flake and CaCl2 as

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: 12/17/2014 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: 2/21/2015

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 8/20/2015

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 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. Use CBL results to verify the stage cement pumped from 613' to 307'. If cement missing, add cement behind production casing or cut casing deeper and add cement to ensure Fox Hills aquifer isolation. 3) If unable to pull casing contact COGCC for plugging modifications. 4) For 420' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 167' or shallower. 5) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete. 6) Please submit existing gyro survey data with Form 6 (s) Subsequent Report of Abandonment.

Attachment Check List

Att Doc Num	Name
400754330	FORM 6 INTENT SUBMITTED
400754353	PROPOSED PLUGGING PROCEDURE
400754354	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date
Permit	Well Completion Report DocNum 58142 08/20/1975	12/29/2014 10:59:11 AM

Total: 1 comment(s)