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

DE	ET	OE	ES

Document Number: 400513400

Date Received: 11/14/2013

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: PRECUP, JIM Tel: (303) 726-3822 Email: james.precup@state.co.us

API Number 05-123-21149-00

Well Name: CANNON FEDERAL Well Number: 4-17A

Location: QtrQtr: NWNW Section: 17 Township: 2N 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: 40.144050 Longitude: -104.808720

GPS Data:

Date of Measurement: 07/07/2006 PDOP Reading: 2.6 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: 1700

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	7818	7862			

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	669	470	669	0	VISU
1ST	7+7/8	4+1/2	11.6	7,956	267	7,960	6,753	CBL
S.C. 1.1	7+7/8	4+1/2	11.6	7,956	125	4,913	4,050	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7758 with 2 sacks cmt on top. CIPB #2: Depth 100 with 23 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 30 sks cmt from 7091 ft. to 6691 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 5000 ft. with 175 sacks. Leave at least 100 ft. in casing 5060 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 405 sacks half in. half out surface casing from 1800 ft. to 469 ft. Plug Tagged: ☒

Set _____ 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:

CANNON FEDERAL 4-17A
1 Call foreman or lead operator at least 24 hr prior to rig move. Request that they catch and remove the plunger, isolate production equipment and remove any automation prior to rig showing up. Install perimeter fence as needed.
2 GYRO complete DEC12.
3 Provide notice of MIRU to COGCC field inspector as specified in approved form 6.
4 Notify IOC when rig mobilizes to location to generate workorder for flowline removal and one call for line locates.
5 Prepare location for base beam equipped rig
6 MIRU, kill as necessary using clean fresh water with biocide. ND WH. NU BOP. Unseat tubing hanger, LD.
7 Notify cementers to be on call. Provide volumes (30 sx G w/ 20% silica flour, 0.4% CD-32, 0.4% ASA-301 and R-3 to achieve 2:30 pump time mixed 15.8 ppg and 1.38 yield(In pipe only), 175 sx class G, 0.4% CD-32, 0.4% ASA-301 15.8ppg 1.15 yield (9"+20%), 405 sx Type III CaCl2 cement 1.53 yield (9"+20%)).
8 TOOH 2-3/8" production tubing, SB.
9 MIRU WL. RIH gauge ring for 4-1/2" 11.6#/ft csg to 7800'.
10 RIH CIBP, set at 7758'. PT CIBP to 1000 psi. PU dump bailer, dump bail 2 sx class G cement on CIBP. RD WL
11 TIH using production tubing to 7091', hydrotesting tubing in to 3000 psi. Roll hole using water containing biocide.
12 RU cement services.
13 Spot 7.5 BBL (30 sx) G w/ 20% silica flour, 0.4% CD-32, 0.4% ASA-301 and R-3 to achieve 2:30 pump time mixed 15.8 ppg and 1.38 yield from 7091'-6691'. RD cementers.
14 PUH 6 stands from 6691'. Circulate hole volume using water containing biocide to clear tubing. WOC 4 hrs.
15 TIH and tag previously pumped plug. Note depth, if below 6691', discuss with production engineer.
16 Place 9.0 ppg mud containing biocide from tag to 5250'.
17 P&SB 5060' tubing, LD remainder.
18 RU WL. PU 2-1' 3-1/8" perf guns with 3 spf, 0.5" dia 120* phasing. Shoot 1' of squeeze holes at 5250' and at 5000'. RD WL.
19 PU and TIH with CICR on production tubing. Set at 5060'.
20 Establish circulation noting rate and pressure using water containing biocide.
21 RU cementers.
22 Preflush using 5 BBLS water, 20BBLS sodium metasilicate, 5 BBLS water.
23 Pump ~36 BBL (175sx) class G, 0.4% CD-32, 0.4% ASA-301 with 1.15 cuft/sk yield. Underdisplace by 14.5 BBL. Unsting from retainer and spot from CICR to 4136'.
24 PUH 6 stands from 4136'. Circulate hole volume using water containing biocide to clear tubing.
25 TIH to 4250'. Place 9.0 ppg mud containing biocide from 4250' to 1800' (~38BBL).
26 TOOH, SB 1800' tubing, LD remainder.
27 ND BOP, NDTH.
28 NU BOP, changeover BOP pipe rams for 4-1/2" casing.
29 PU casing hanger, LD.
30 RU WL. Shoot off casing at 1700'. RD WL. Makeup circulation hose, circulate hole using 165 BBL water containing biocide to remove any gas.
31 TOOH with 4-1/2" 11.6 #/ft casing, LD.
32 Changeover BOP pipe rams for 2-3/8".
33 TIH into casing sub using production tubing to 1800'.
34 Spot 405 SX Type III CaCl2 cement with 1.53cuft/sk yield.
35 PUH to 150', circulate 15 BBL water containing biocide to clear tubing.
36 TOOH. WOC 4 hrs.
37 TIH and tag. If cement is below 469', discuss with production engineer.
38 Fill casing with 9.0 ppg drilling mud containing biocide from tag to 100'.
39 RU WL. RIH 8-5/8" CIBP to 100'. Set, PT to 1000psi for 15 min. If tests, RDMO WL and WO rig.
40 Supervisor submit paper copies of all invoices, logs, and reports to Frantz, Sabrina.
41 Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.
42 Place Redi Mix cement on will call if cement top in 8 5/8" is more than 25' below surface.
43 Excavate hole around surface casing enough to allow welder to cut 8 5/8" casing minimum 5' below ground level.
44 Welder cut 8 5/8" casing minimum 5' below ground level.
45 MIRU redimix. Use 4500psi compressive strength cement, (NO gravel) fill stubout.
46 Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 ¼ descriptor) and API number

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: 11/14/2013 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: 11/19/2013

CONDITIONS OF APPROVAL, IF ANY: Expiration Date: 5/18/2014

COA Type	Description
	1) Provide 24 hour notice of MIRU to Jim Precup at 303-726-3822 or e-mail at james.precup@state.co.us. 2) If unable to pull casing, contact COGCC for plugging modifications. 3) Leave at least 100’ cement in the wellbore for each plug. 4) For 1800' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 619’ or shallower. 5) Properly abandon flowlines as per Rule 1103.

Attachment Check List

Att Doc Num	Name
400513400	FORM 6 INTENT SUBMITTED
400513416	PROPOSED PLUGGING PROCEDURE
400513417	WELLBORE DIAGRAM
400513418	WELLBORE DIAGRAM

Total Attach: 4 Files

General Comments

User Group	Comment	Comment Date

Total: 0 comment(s)