

Document Number:
400643710

Date Received:
07/11/2014

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 05-123-18459-00

Well Name: FREAUFF Well Number: 43-4

Location: QtrQtr: NESE Section: 4 Township: 3N 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: 40.252240 Longitude: -104.888800

GPS Data:
Date of Measurement: 02/23/2007 PDOP Reading: 3.9 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: 840

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
CODELL	7092	7102			

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	355	220	355	0	CALC
1ST	7+7/8	3+1/2	7.7	7,277	210	7,281	6,250	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6990 with 30 sacks cmt on top. CIBP #2: Depth 100 with 25 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 _____ 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 4610 ft. with 370 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

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

(Cast Iron Cement Retainer Depth)

Set 180 sacks half in. half out surface casing from 940 ft. to 155 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:

FREAUFF 43-4

- 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 Provide notice of MIRU to COGCC field inspector as specified in approved Form 6.
 - 3 Gyro run Oct 2013
 - 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, circulate to remove gas and kill well as necessary using clean fresh water with biocide. ND WH. NU BOP. Unseat landing jt, LD.
 - 7 TOOH 2-1/16" production tubing. Stand back.
 - 8 MIRU WL. RIH gauge ring for 3-1/2" 7.7 #/ft casing to 7000'.
 - 9 RIH CIBP, set at 6990' (correlate depth from Brandex CBL dated 8/15/1994). POOH. Pressure test CIBP to 1000 psi for 15 minutes. If pressure test passes, RDMO wireline.
 - 10 TIH with open ended 2-1/16" tubing to just above CIBP while hydrotesting to a min of 3000 psi.
 - 11 RU cement services.
 - 12 Spot 30 sx "G" w/ 20% silica flour, 0.4% CD32, 0.4% ASA-301 and R-3 15.8ppg 1.38 cf/sk (In pipe only) from 6990' to 6183'.
 - 13 PUH to 6000'. Tubing volume at 6000' approximately 18 bbls. Circulate and load hole with 9 ppg drilling mud and biocide to clear tbg. POOH. WOC 4 hrs.
 - 14 RUWL. PU and RIH with two 1' perf guns, each 3 spf, 0.50" EHD, 6.0" penetration, 120 deg phasing, 3 shot total perf guns and CCL. Correlate to Brandex CBL dated 8/15/1994 and perf casing at 4610'. PUH and perf casing at 3770' (400' above top of Sussex).
 - 15 POOH with CCL and perf guns and RDMO WL.
 - 16 RIH with 3-1/2" packer and 2-1/16" tubing, set packer at 3800' in 3-1/2" casing. Establish circulation with fresh water and biocide through squeeze holes at 4610' and 3770'.
 - 17 RU cement services. Pump 20 bbl Sodium Metasilicate ahead of cement. Pump 370 sx "G" w/0.25 pps cello flake, 0.4% CD-32, 0.4% ASA-301 cement with 1.15 cuft/sk yield (Cement in open hole based on caliper. 9" hole with 20% excess).
 - 18 Release packer. PUH to 3500' with 3-1/2" packer and 2-1/16" tubing and circulate with drilling mud and biocide until no cement returns to surface. **IF workstring is cemented in place, RU WL, free point and jet cut tubing.** POOH and LD packer. WOC 4 hours.
 - 19 RIH with 2-1/16" tbg and tag cement. TOC in csg needs to be above 3700'.
 - 20 RU WL. Crack coupling or shoot off casing at 840'. RDMO WL. Circulate hole using drilling mud with biocide to remove any gas.
 - 21 NDBOP, NDTH.
 - 22 NU BOP on casing head, install 3-1/2" pipe rams
 - 23 TOOH with 3-1/2" casing, LD.
 - 24 TIH into csg stub with 2-1/16" tbg to 940'.
 - 25 Pump 180 sx Type III cement with 1.53 cuft/sk yield.
 - 26 PUH to 100'. Circulate tubing clean with drilling mud with biocide.
 - 27 TOOH. WOC 4 hrs or overnight.
 - 28 TIH and tag. If cement is below 255', discuss with production engineer.
 - 29 RU Wireline services. RIH 8-5/8" CIBP to 100'. Set, pressure test to 1000 psi for 15 min. If plug holds, RDMO WL and RDMO WO rig.
 - 30 Supervisor submit paper copies of all invoices, logs, and reports to Frantz, Sabrina.
 - 31 Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.
 - 32 Excavate hole around surface casing enough to allow welder to cut 8-5/8" casing minimum 5' below ground level.
 - 33 Welder cut 8-5/8" casing minimum 5' below ground level.
 - 34 MIRU redimix. Use 4500 psi compressive strength cement, (NO gravel) fill stubout.
 - 35 Weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 ¼ description) and API number
 - 36 Properly abandon flowlines per Rule 1103.
 - 37 Back fill hole with fill. Clean location, level.
- Submit Form 6 to COGCC ensuring to provide "As performed" WBD identifying operations completed.

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: 7/11/2014 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: 7/22/2014

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 1/21/2015

COA Type	Description
	1) Provide 48 hour notice of plugging MIRU via electronic Form 42. 2) If unable to pull casing contact COGCC for plugging modifications. 3) For 940' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 300' or shallower. 4) CIBP#2 can be set at either 100' or 80'. Adjust cement volumes accordingly. 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
400643710	FORM 6 INTENT SUBMITTED
400643718	PROPOSED PLUGGING PROCEDURE
400643719	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date
Permit	Well Completion Report dated 11/16/1994.	7/15/2014 9:19:41 AM

Total: 1 comment(s)