

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



DE ET OE ES

Document Number:

400699460

Date Received:

10/01/2014

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: (970) 629-8279

COGCC contact:

Email: craig.carlile@state.co.us

API Number 05-123-18848-00

Well Name: HSR-RADEMACHER

Well Number: 14-30

Location: QtrQtr: SESW Section: 30 Township: 3N Range: 67W Meridian: 6

County: WELD

Federal, Indian or State Lease Number: 64621

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: 40.191140

Longitude: -104.934270

GPS Data:

Date of Measurement: 06/20/2007

PDOP Reading: 2.1

GPS Instrument Operator's Name: Steve Fisher

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

Estimated Depth: 930

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	7265	7275			
NIOBRARA	7049	7050			

Total: 2 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	23	729	510	729	0	VISU
1ST	7+7/8	3+1/2	7.7	7,411	395	7,411	6,448	CBL
S.C. 1.1				4,994	165	4,994	3,603	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6980 with 20 sacks cmt on top. CIPB #2: Depth 80 with 25 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 50 sks cmt from 4910 ft. to 3790 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 _____ 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

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

(Cast Iron Cement Retainer Depth)

Set 200 sacks half in. half out surface casing from 1030 ft. to 520 ft. Plug Tagged: ☒

Set 25 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:

2 MIRU slickline services. Pull bumper spring and tag bottom. RDMO slickline.
 3 Prepare location for base beam equipped rig. Install perimeter fence as needed.
 4 Check and record Bradenhead pressure. If Bradenhead valve is not accessible, re-plumb so that valve is above GL.
 5 MIRU, kill as necessary using clean fresh water with biocide. ND WH. NU BOP. Unseat landing jt, LD.
 6 TOO H and SB 2 1/16" production tubing (219 jts landed @ 7220').
 7 MIRU wireline. Run gyro survey from 100' above PBD (~7372') recorded in step 2 to surface with stops every 100'. Forward gyro survey data and invoices to Sabrina Frantz.
 8 RIH gauge ring for 3 1/2" 7.7 #/ft casing to 7000'. POOH.
 9 Set CIBP at 6980' to abandon Codell and Niobrara perms. RDMO WL. Pressure test to 1,000 psi.
 10 RIH 2 1/16" tubing to 6980' while hydrotesting to 3000 psi.
 11 RU Cementers. Pump Niobrara plug: 20 sx (28 cuft) class "G" w/ 20% silica flour, 0.4% CD-32, 0.4% ASA-301 and R-3 to achieve 2:30 pump time mixed at 15.8 ppg and 1.38 cuft/sx (538' inside 3 1/2" csg, no excess). The plug will cover 6980' - 6442'. RD cementers.
 12 PUH to 6200' and circulate tubing clean to ensure no cement is left in the tubing.
 13 P & SB 4910' of 2 1/16" tubing, LD remainder.
 14 RIH w/ 2 1/16" tubing to 4910'.
 15 RU Cementers. Pump Sussex/Shannon balanced plug: 50 sx (58 cuft) class "G" w/ 0.4% CD-32, 0.4% ASA-301 mixed at 15.8 ppg and 1.15 cuft/sx (1120' inside 3 1/2" csg, no excess). The plug will cover 4910' - 3790'. RD cementers.
 16 PUH to 3600' and circulate with water to ensure no cement is left in the tubing.
 17 WOC per cement company recommendation, tag cement, cement top needs to be above 3790'.
 18 P & SB 1030' of 2 1/16" tubing, LD remainder.
 19 RU WL. Shoot off casing at or below 930'. RDMO WL. Circulate to remove any gas.
 20 NDBOP, NDTH. Install BOP on casing head with 3 1/2" pipe rams.
 21 POOH with 930' of 3 1/2" casing, LD. Install 2 1/16" pipe rams.
 22 RIH 100' past casing stub w/ 2 1/16" tubing to 1030'.
 23 RU Cementers. Precede cement w/ 10 bbl SAPP and a 20 bbl fresh water spacer. Spot Fox Hills Stub plug: 200 sx (266 cuft) Type III w/cello flake and CaCl2 as deemed necessary, mixed at 14.8 ppg and 1.33 cuft/sx (100' inside 3 1/2" casing stub with no excess, 301' covering 9.5" OH from caliper with 20% excess, and 209' inside 8 5/8" surface casing with no excess). The plug will cover 1030' - 520'. RD cementers.
 24 PUH to 200' and circulate with water to ensure no cement is left in the tubing.
 25 WOC per cement company recommendation, tag cement, cement top needs to be above 520'.
 26 MIRU WL. RIH 8 5/8" CIBP to 80'. Set and pressure test to 1000 psi for 15 minutes. RDMO WL and WO rig.
 27 Instruct cementing and wireline contractors to e-mail copies of all job logs/job summaries to rscDJVendors@anadarko.com within 24 hrs of completion of the job.
 28 Supervisor submit paper copies of all invoices, logs, and reports to Joleen Kramer.
 29 Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.
 30 Excavate hole around surface casing enough to allow welder to cut casing minimum 5' below ground level.
 31 Welder cut casing minimum 5' below ground level.
 32 Fill casing to surface using 4500 psi compressive strength cement, (NO gravel).
 33 Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number.
 34 Obtain GPS location data as per COGCC Rule 215 and send to rscDJVendors@anadarko.com.
 35 Properly abandon flowlines per Rule 1103. File electronic Form 42 once abandonment complete.
 36 Back fill hole with fill. Clean location, level.
 37 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: 10/1/2014 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: 10/24/2014

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 4/23/2015

COA Type	Description
	1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU. 2) If unable to pull casing contact COGCC for plugging modifications. 3) For 1030' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 679' or shallower. 4) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete. 5) Please submit gyro survey data with Form 6 (s) Subsequent Report of Abandonment.

Attachment Check List

Att Doc Num**Name**

400699460	FORM 6 INTENT SUBMITTED
400699477	PROPOSED PLUGGING PROCEDURE
400699479	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group**Comment****Comment Date**

Permit	Well Completion Report dated 3/24/1995.	10/20/2014 12:18:39 PM
--------	---	---------------------------

Total: 1 comment(s)