

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

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Date Received:

12/11/2014

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: (970) 629-8279

COGCC contact:

Email: craig.carlile@state.co.us

API Number 05-123-24916-00

Well Name: GURTLER H

Well Number: 24-24

Location: QtrQtr: NWSE Section: 24 Township: 3N Range: 65W 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: 40.207068

Longitude: -104.611932

GPS Data:

Date of Measurement: 11/12/2007

PDOP Reading: 2.6

GPS Instrument Operator's Name: PAL TAPPY

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

Estimated Depth: 1220

Fish in Hole: ☐ Yes☒ No

If yes, explain details below

Wellbore has Uncemented Casing leaks: ☐ Yes☒ No

If yes, explain details below

Details: Well is to be plugged to make room for an expansion of an oil production facility.

Current and Previously Abandoned Zones

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth
CODELL	7082	7093			
NIOBRARA	6842	6858			

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	24	715	358	715	0	VISU
1ST	7+7/8	4+1/2	11.6	7,225	1,000	7,225	1,488	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6790 with 25 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 30 sks cmt from 4590 ft. to 4190 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 250 sacks half in. half out surface casing from 1320 ft. to 515 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:

4 MIRU slickline services and pressure bomb services. Pull bumper spring, tag bottom, and run pressure bomb survey and obtain pressure gradient survey from surface to 7090' making gradient stops every 1000'. Forward pressure bomb results to Evans Engineering. RDMO pressure bomb services. MIRU VES and run gyro survey from 7070' to surface with stops every 100'. Forward gyro survey data and invoices to Sabrina Frantz. RDMO slickline services and VES.

5 MIRU workover rig, kill as necessary using clean fresh water with biocide. ND WH. NU BOP. Unseat landing jt, LD.

6 POOH and stand back tbq. (Tubing size is unknown, but assumed at this point to be 2-3/8")

7 MIRU WL. RIH w/ gauge ring for 4.5" 11.6# csg to 6820'.

8 RIH and Set 4.5" CIBP mid joint at 6790'. PT csg and CIBP to 1000 psi for 15 minutes. RDMO WL.

9 Notify Cementers to be on call.

10 RIH 2-3/8" tbq while hydrotesting to 3000 psi to CIBP at 6790'. Tag CIBP and pick up 5'.

11 RU Cementers. Pump Niobrara plug consisting of 34.5 cu-ft (25 sx)"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/sk. Calculated top in the 4-1/2" csg is 6400'.

12 PUH to 6000' and circulate hole clean. PUH to leave EOT at 4590' laying down tbq.

13 Pump Sussex Balanced plug: 34.5 cu-ft (30 sks) "G" w/ 0.4% CD-32, 0.4% ASA-301 with CaCl2 as necessary. Mixed at 15.8 ppg, 1.15 cuft/sack. Calculated TOC is 4190' in the 4-1/2" casing.

14 PUH to 3800' and circulate hole clean with fresh water w/biocide. POOH standing back 42 jnts and laying down the rest.

15 RU WL. Cut off 4-1/2" csg at 1220'. RDMO WL. Circulate using water and biocide to remove all gas from wellbore.

16 ND BOP and wellhead. Install a BOP on surface casing head with 4-1/2" pipe rams. Install 3000 psi ball valves on both casing head outlets. Install a choke or choke manifold on one outlet.

17 POOH and LD 4-1/2" csg. Remove the 4-1/2" pipe rams and Install 2-3/8" pipe rams.

18 RIH w/ 2-3/8" WS open ended 100' past the 4-1/2" csg stub to 1320'.

19 MIRU Cementers. Pump Fox Hills Balanced plug: Pump mud flush of 10 bbls SAPP followed by 20 bbls water ahead of 372 cu-ft (280 sx) Type III w/cello flake and CaCl2 as deemed necessary, mixed at 1.33 cf per sack, 14.8 ppg. Plug size is based on 8.5" hole with 40% excess covering 1320' to shoe of surface casing at 715' plus capacity of surface casing to 500'. PUH to 150' and circulate out any excess cmt. TOH and WOC per cement company recommendation.

20 RIH and tag top of plug. Plug needs to be tagged at 515' or shallower. POOH and LD 2-3/8" tbq.

21 RU wireline. Run and set CIBP in the 8-5/8", 24# surface casing at 80'. PT CIBP and surface casing to 1000 psi for 15 minutes. Assuming successful test, RD wireline. RDMO workover rig.

22 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.

23 Supervisor submit paper copies of all invoices, logs, and reports to Joleen Kramer.

24 Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.

25 Excavate hole around surface casing enough to allow welder to cut casing minimum 9' below ground level.

26 Welder cut casing minimum 9' below ground level.

27 Fill casing to surface using 4500 psi compressive strength cement, (NO gravel).

28 Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number.

29 Properly abandon flowlines per Rule 1103. File electronic Form 42 once abandonment complete.

30 Back fill hole with fill. Clean location, level.

31 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: 12/11/2014 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: 12/11/2014

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 6/10/2015

<u>COA Type</u>	<u>Description</u>
	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 1320' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 665' 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

<u>Att Doc Num</u>	<u>Name</u>
400750562	FORM 6 INTENT SUBMITTED
400750564	PROPOSED PLUGGING PROCEDURE
400750565	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Well Completion Report dated 11/29/2007.	12/11/2014 1:33:30 PM

Total: 1 comment(s)