

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:

400698944

Date Received:

09/30/2014

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: Johnson, Randell

Tel: (303) 815-9641

COGCC contact:

Email: randell.johnson@state.co.us

API Number 05-123-09656-00

Well Name: E GRAHAM "C"

Well Number: 1

Location: QtrQtr: NWNE Section: 12 Township: 1N Range: 68W 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: 40.069740

Longitude: -104.947240

GPS Data:

Date of Measurement: 08/07/2008

PDOP Reading: 5.4

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: 1330

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	8230	8266			

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	842	550	842	0	VISU
1ST	7+1/4	4+1/2	10.5/11.6	8,398	225	8,398	6,885	CALC
	12+1/4	8+5/8	Stage Tool	184	250	184	0	VISU

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 8150 with 2 sacks cmt on top. CIBP #2: Depth 80 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 30 sks cmt from 7470 ft. to 7070 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 5420 ft. with 630 sacks. Leave at least 100 ft. in casing 4540 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 420 sacks half in. half out surface casing from 1430 ft. to 134 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:

1. Note: Production Casing = 4 1/2" OD, 10.5-11.6#/ft; Production Hole Drilled @ 7 7/8."

2. Provide 48 hr notice to COGCC prior to rig up per request on approved Form 6 (e.g. call field coordinator, submit Form 42, etc.). Call IOC (970-506-5980) at least 24 hr prior to rig move. Request they catch and remove plunger, isolate production equipment and remove any automation prior to rig MIRU.

3. MIRU slickline services and VES. Pull bumper spring and tag bottom. Run pressure bomb and obtain pressure gradient survey from surface to 8250' making gradient stops every 1000'. Run gyro survey from 8225' to surface with stops every 100'. Forward gyro survey and pressure gradient survey data to Sabrina Frantz and invoices to Sabrina Frantz. RDMO SL and VES.

4. Prepare location for base beam equipped rig. Install perimeter fence as needed.

5. Check and record Bradenhead pressure. If Bradenhead valve is not accessible, re-plumb so that valve is above GL.

6. MIRU, kill as necessary using clean fresh water with biocide and circulate. ND WH. NU BOP. Unseat landing jt, LD.

7. Notify cementers to be on call. Provide volumes listed below:

7.1 Niobrara Plug: 41 cu ft/ 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 at 15.8 ppg and 1.38 cuft/sk yield (400' inside 4-1/2" casing).

7.2 SX Suicide: 725 cu ft/ 630 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 (910' in 11.25" OH + 20% excess. 910' inside 4 1/2" casing, no excess).

7.3 Stub Plug: 558 cu ft/ 420 sx Type III CaCl2 cement w/0.25 pps cello flake mixed at 14.8 ppg and 1.33 cf/sx (100' inside 4-1/2" csg, 488' inside 11.25" OH + 40% excess, and 202' inside 8-5/8" surface casing).

8. TOOH 2-3/8" production tubing. Stand back.

9. PU casing scraper and RIH with 2-3/8" tubing to 8200'. Then TOOH.

10. MIRU WL. RIH CIBP and set at +/- 8150. Pressure test CIBP to 1000 psi. Dump bail 2 sx class G cmt.

11. Run CBL from 8000' to surface to verify cement coverage. Note: It is important to get a good quality CBL. It may be necessary to circulate from just above CIBP to surface in order to get gas out of the hole. RD WL.

12. RIH to 7470' w/ 2-3/8" tubing while hydro testing to 3000 psi.

13. RU Cementers. Pump Niobrara Plug: 41 cu ft/ 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 at 15.8 ppg and 1.38 cuft/sk yield (400' inside 4-1/2" Casing) to place cement in production casing from 7470' to 7070'.

14. PUH to 6800'. Circulate 110 bbls water containing biocide to clear tubing. Then, TOOH and SB ~4500' of tbq.

15. RU WL. PU 3-1/8" perf guns with 3 spf, 0.5" dia 120deg phasing. Shoot 1' of squeeze holes at 5420' and 4510'. RD WL.

16. PU and RIH w/ CICR and 2-3/8" tubing and set CICR at approximately 4540'.

17. RU Cementers. Pump 5 bbl water w/biocide, 20 bbl Sodium Metasilicate, and another 5 bbl water spacer immediately preceding cement. Pump SX Suicide: 725 cu ft/ 630 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 to place suicide squeeze between perfs from 5420' to 4510'. Under displace and sting out of CICR to leave 3 bbls on top of retainer.

18. PUH to 4200'. Circulate 70 bbls water containing biocide to clear tubing. Then, TOOH.

19. RU WL. Shoot off casing at or below 1330'. RDMO WL. Circulate water containing biocide down casing and up annulus to remove any gas.

20. NDBOP, NDTH.

21. Install BOP on casing head with 4-1/2" pipe rams.

22. TOOH with 4-1/2" casing, LD.

23. RIH with 2-3/8" tubing to 1430'.

24. RU Cementers. Pump 10 bbl SAPP with a minimum of 20 bbl fresh water spacer. Pump Stub Plug: 558 cu ft/ 420 sx Type III CaCl2 cement w/0.25 pps cello flake mixed at 14.8 ppg and 1.33 cf/sx from 1430' to 640'.

25. PUH to 300'. Circulate 20 bbls water containing biocide to clear cement.

26. TOOH. WOC 4 hrs. Tag Cement. Cement top needs to be at or above 134';

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: 9/30/2014 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: 10/22/2014

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 4/21/2015

<u>COA Type</u>	<u>Description</u>
	<p>Note change in plugging procedure:</p> <p>1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU.</p> <p>2) No CBL on file. Run CBL to verify the top of primary or squeezed cement is at least 200' over Niobrara. If cement does not exist as required, provide this coverage as part of this plugging project.</p> <p>3) If unable to pull casing contact COGCC for plugging modifications.</p> <p>4) For 1430' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 134' or shallower to cover DV tool reported @ 184' in 8 5/8" casing. Adjust cement volumes accordingly.</p> <p>5) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.</p> <p>6) Please submit gyro survey data with Form 6 (s) Subsequent Report of Abandonment.</p>

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400698944	FORM 6 INTENT SUBMITTED
400698945	PROPOSED PLUGGING PROCEDURE
400698946	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Well Completion Report dated 5/29/1979.	10/16/2014 12:14:35 PM

Total: 1 comment(s)