

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:

400569111

Date Received:

03/10/2014

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 05-123-10238-00

Well Name: HAROLD R. MIXON GAS UNIT

Well Number: 2

Location: QtrQtr: NESE Section: 25 Township: 2N 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: 40.106190

Longitude: -104.833480

GPS Data:

Date of Measurement: 06/04/2008

PDOP Reading: 2.7

GPS Instrument Operator's Name: Caddy Mattson

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

Estimated Depth: 1420

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	7915	7950			

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	668	475	668	0	VISU
1ST	7+7/8	4+1/2	11.6/10.5	8,080	200	8,080	7,255	CALC

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7860 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 540 sks cmt from 1520 ft. to 460 ft. Plug Type: STUB PLUG 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 6760 ft. with 150 sacks. Leave at least 100 ft. in casing 6790 CICR Depth

Perforate and squeeze at 4230 ft. with 410 sacks. Leave at least 100 ft. in casing 4260 CICR Depth

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

(Cast Iron Cement Retainer Depth)

Set 540 sacks half in. half out surface casing from 1520 ft. to 460 ft. Plug Tagged: ☒

Set 23 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:

Perforate and squeeze at 7240 / 6760 ft. with 150 sacks Leave at least 100 ft. in casing 6790' CICR Depth
Perforate and squeeze at 4840 / 4230 ft. with 410 sacks Leave at least 100 ft. in casing 4260' CICR Depth

8 MIRU WL. RIH gauge ring for 4 1/2" 11.6#/ft casing to 7915'.

9 RIH CIBP w/ WL. Set at 7820'. PU dump bailer, dump bail 2 sx class 'G' cement on CIBP. PT Casing to 1000 psi.

10 Run CBL from CIBP to Surface. Send results to Mark.Hinaman@anadarko.com immediately. RDWL.

11 PU 2 - 1' 3-1/8" perf guns with 3 spf, 0.5" dia 120° phasing. Shoot 1' of squeeze holes at 7240' and 6760'. Adjust perf heights according to cement location on CBL. Desired bottom perf is 20' above TOC; Desired top perf is 400' above 7168' (Niobrara Top).

12 PU CICR. RIH and set at 6790'+/-20' pending collar locator on CBL. RD WL.

13 RIH w/ 2 3/8 " tubing while hydrotesting to 3,000 psi.

14 RU Cementers. Pump Niobrara Suicide: 160 sx 50/50 Poz "G" w/ 20% silica flour, 3% gel, 0.1% sodium metasilicate and 0.4% FL-52 mixed at 13.5 ppg and 1.71 cf/sk (43.7 bbls) (9 1/4 " + 20% Caliper Log in file) to place suicide squeeze between perfs.

Underdisplace and sting out of CICR to leave 3 bbls on top of retainer.

15 PUH 6 stands. Circulate 95 bbls water containing biocide to clear tubing.

16 Place 9.0 ppg mud containing biocide from 6600' to 4840' (~29 bbls). TOOH & WOC 4 hrs.

17 RUWL & PU 2 - 1' 3-1/8" perf guns with 3 spf, 0.5" dia 120° phasing. Shoot 1' of squeeze holes at 4840' and 4230'.

18 PU CICR. RIH and set at approximately 30' below the top perf pending collar locator on CBL. RD WL.

19 RIH w/ 2 3/8 " tubing.

20 RU Cementers. Pump 5 bbl water w/ biocide, 20 bbl Sodium Metasilicate, and another 5 bbl spacer immediately preceding cement.

21 Pump SX Suicide: 410 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 (80.7 bbls) (11 " +20% Caliper Log in file) to place suicide squeeze between perfs. Underdisplace and sting out of CICR to leave 3 bbls on top of retainer.

22 PUH 5 stands. Circulate 60 bbls water containing biocide to clear tubing.

23 Place 9.0 ppg mud containing biocide from 4080' to 1520' (~41 bbls). TOOH & WOC 4 hrs.

24 RU WL. Crack coupling or shoot off casing at or below 1420'. RDMO WL. Circulate a full circulation with water containing biocide to remove any gas.

25 NDBOP, NDTH.

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

27 TOOH with 4 1/2" casing, LD.

28 RIH with 2 3/8 " tubing to 1520'.

29 RU Cementers. Spot Stub Plug: 540 sx Type III CaCl₂ cement w/ 0.25 pps cello flake mixed at 14.0 ppg and 1.53 cf/sx (146.4 bbls) (100' in 4 1/2" prod casing, 752' in 12 1/4" OH + 20% Caliper Log, and 208' in 8 5/8" surface casing).

30 Circulate 5 bbls water containing biocide to clear tubing.

31 TOOH. WOC 4 hrs. Tag Cement. Cement top needs to be above 568'; Proceed assuming TOC is above 568'. Otherwise, call production engineer.

32 MIRU WL. RIH 8 5/8" CIBP to 100'. Set, PT to 1000 psi for 15 min. If tests, RDMO WL and WO rig.

33 Instruct cementing and wireline contractors to e-mail copies of all job logs/job summaries and invoices to rscDJVendors@anadarko.com within 24 hrs of the completion of the job.

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

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

36 Excavate hole around surface casing enough to allow welder to cut 8 5/8" casing minimum 5' below ground level.

37 Welder cut 8 5/8" casing minimum 5' below ground level.

38 MIRU ready cement mixer. Use 4500 psi compressive strength cement, (NO gravel) fill stubout.

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

40 Properly abandon flowlines per Rule 1103.

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

42 Submit Form 6 to COGCC ensuring to provide 'As performed' WBD.

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: 3/10/2014 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: 3/20/2014

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 9/19/2014

<u>COA Type</u>	<u>Description</u>
	<p>Note changes in plugging procedure:</p> <ol style="list-style-type: none"> 1) Provide 48 hour notice of plugging MIRU via electronic Form 42. 2. Move CIBP #1 from 7820' down to to 7860'. 3) No CBL on file. Run CBL to verify the top of primary cement is at least 200' over Niobrara, at least 50' below Sussex to 200' above Sussex, and adequately isolates the Fox Hills aquifer. If cement does not exist as required, provide this coverage as part of this plugging project. 3) If unable to pull casing contact COGCC for plugging modifications. 4) For 1520' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 600' or shallower. 5) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400569111	FORM 6 INTENT SUBMITTED
400569112	PROPOSED PLUGGING PROCEDURE
400569113	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Well Completion report dated 12/14/1981.	3/11/2014 11:18:24 AM

Total: 1 comment(s)