

FORM
6Rev
05/18

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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Replug By Other Operator

Document Number:

401607584

Date Received:

05/10/2018

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: 10625

Contact Name: Stephen Miller

Name of Operator: HIGHLANDS NATURAL RESOURCES

Phone: (361) 2309375

Address: 220 JOSEPHINE STREET

Fax:

City: DENVER State: CO Zip: 80206

Email: stephen.miller@highlandsnr.com

For "Intent" 24 hour notice required,

Name: Sherman, Susan

Tel: (719) 775-1111

COGCC contact:

Email: susan.sherman@state.co.us

API Number 05-005-06602-00

Well Name: SMOKEY HILL-STATE

Well Number: 4-22

Location: QtrQtr: NWNW Section: 22 Township: 5S Range: 64W Meridian: 6

County: ARAPAHOE

Federal, Indian or State Lease Number: 70-8012/S

Field Name: WILDCAT

Field Number: 99999

☒ Notice of Intent to Abandon☐ Subsequent Report of Abandonment

Only Complete the Following Background Information for Intent to Abandon

Latitude: 39.606455

Longitude: -104.545888

GPS Data:

Date of Measurement:

PDOP Reading:

GPS Instrument Operator's Name:

Reason for Abandonment:

☐ Dry☐ Production Sub-economic☐ Mechanical Problems☒ Other Re-Enter to Re-Plug by Other Operator.

Casing to be pulled:

☐ Yes☒ No

Estimated Depth: 8377

Fish in Hole:

☐ Yes☒ No

If yes, explain details below

Wellbore has Uncemented Casing leaks:

☐ Yes☒ No

If yes, explain details below

Details:

Purpose is to re-enter and adequately re-plug prior to hydraulic fracturing of wells on the Highlands 15/16 Pad location (449920).

1. Evacuate around wellbore
2. Clean and weld on stub to the 8-5/8" Casing
3. Install bowl and BOPs and closed loop system.
4. Drill out cement and wash down with stiff BHA to 8262'
5. Spot plug from 8262' - 7900' with class G Cement (90 sks) and tag once set.
6. Spot plug from 7750' - 7128' with class G Cement (160 sks) and tag once set.
7. Spot plug from 2030' - 1780' (below Fox Hills) with class G Cement (75 sks) and tag once set.
8. Spot plug from 1463' - 1293' (below Arapahoe) with class G Cement (50 sks), no tag.
9. Spot plug from 950' - 700' with class G Cement (50 sks), no tag.
10. Set 75 sks half in - half out of surface casing 250 ft to surface.
11. Cut off 4' below ground and weld on plate showing well details.

9. Spot plug from 950' - 700' with class G Cement (50 sks), no tag.
10. Set 75 sks half in - half out of surface casing 250 ft to surface.
11. Cut off 4' below ground and weld on plate showing well details.

Current and Previously Abandoned Zones

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth

Total: 0 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	201	150	201	0	VISU
OPEN HOLE	7+7/8			8,377				

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth _____ with _____ sacks cmt on top. CIBP #2: Depth _____ with _____ 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 90 sks cmt from 8262 ft. to 7900 ft. Plug Type: OPEN HOLE Plug Tagged: ☒
 Set 160 sks cmt from 7750 ft. to 7128 ft. Plug Type: OPEN HOLE Plug Tagged: ☒
 Set 75 sks cmt from 2030 ft. to 1780 ft. Plug Type: OPEN HOLE Plug Tagged: ☒
 Set 50 sks cmt from 1463 ft. to 1293 ft. Plug Type: OPEN HOLE Plug Tagged: ☐
 Set 50 sks cmt from 950 ft. to 700 ft. Plug Type: OPEN HOLE 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 75 sacks half in. half out surface casing from 250 ft. to 0 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. _____ inch casing Plugging Date: _____
of _____

*Wireline Contractor: _____ *Cementing Contractor: _____

Type of Cement and Additives Used: _____

Flowline/Pipeline has been abandoned per Rule 1105 ☐ Yes ☐ No *ATTACH JOB SUMMARY

Technical Detail/Comments:

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: _____ Print Name: Stephen Miller

Title: VP of Operations Date: 5/10/2018 Email: stephen.miller@highlandsnr.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: BURN, DIANA Date: 5/20/2018

CONDITIONS OF APPROVAL, IF ANY: _____

Expiration Date: 11/19/2018

COA Type

Description

	1) Provide 48 hour notice of plugging MIRU via electronic Form 42. 2) If surface casing plug not circulated to surface then tag plug – must be 150' or shallower and provide 10 sx plug at the surface. 3) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.
	Submit "as-drilled" GPS data on Subsequent Report of Abandonment. GPS data must meet the requirements of Rule 215.

Attachment Check List

Att Doc Num

Name

2158121	WELLBORE DIAGRAM-CURRENT
401607584	FORM 6 INTENT SUBMITTED
401607661	PROPOSED PLUGGING PROCEDURE
401627306	SURFACE AGRMT/SURETY
401635872	WELLBORE DIAGRAM
401635873	LOCATION PHOTO

Total Attach: 6 Files

General Comments

User Group

Comment

Comment Date

Permit	Operator email current wellbore diagram and provided documentation on location photos.	05/11/2018
Well File Verification	WELL FILE NOT FOUND FOR VERIFICATION - PASS TASK 07/28/17	04/19/2018

Total: 2 comment(s)