

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

Replug By Other Operator

Document Number:

401348885

Date Received:

07/24/2017

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: Patrick Lambie

Name of Operator: HIGHLANDS NATURAL RESOURCES

Phone: (315) 532-1852

Address: 2401 EAST 2ND AVENUE SUITE 150

Fax:

City: DENVER State: CO Zip: 80206

Email: patrick.lambie@iptenergyservices.com

For "Intent" 24 hour notice required,

Name: Sherman, Susan

Tel: (719) 775-1111

COGCC contact:

Email: susan.sherman@state.co.us

API Number 05-005-06685-00

Well Name: HUSKY ET AL-STATE

Well Number: 2-16

Location: QtrQtr: NWNE Section: 16 Township: 5S Range: 64W Meridian: 6

County: ARAPAHOE

Federal, Indian or State Lease Number: 70-8006S

Field Name: EAGLE

Field Number: 19150

☒ Notice of Intent to Abandon☐ Subsequent Report of Abandonment

Only Complete the Following Background Information for Intent to Abandon

Latitude: 39.621165

Longitude: -104.554918

GPS Data:

Date of Measurement:

PDOP Reading:

GPS Instrument Operator's Name:

Reason for Abandonment:

☐ Dry☐ Production Sub-economic☐ Mechanical Problems☒ Other Remediation PA to COGCC standards

Casing to be pulled:

☐ Yes☒ No

Estimated Depth: 8360

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

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	23	180	180	180	0	VISU

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	160	sks cmt from	7826	ft. to	7200	ft.	Plug Type:	OPEN HOLE	Plug Tagged:	<input checked="" type="checkbox"/>
Set	75	sks cmt from	2080	ft. to	1826	ft.	Plug Type:	OPEN HOLE	Plug Tagged:	<input checked="" type="checkbox"/>
Set	50	sks cmt from	1476	ft. to	1306	ft.	Plug Type:	OPEN HOLE	Plug Tagged:	<input type="checkbox"/>
Set	50	sks cmt from	940	ft. to	770	ft.	Plug Type:	OPEN HOLE	Plug Tagged:	<input type="checkbox"/>
Set	_____	sks cmt from	_____	ft. to	_____	ft.	Plug Type:	_____	Plug Tagged:	<input type="checkbox"/>

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 90 sacks half in. half out surface casing from 230 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 1103 ☐ Yes ☐ No *ATTACH JOB SUMMARY

Technical Detail/Comments:

Program of Operations
1 Excavate around wellbore
2 Clean and weld on stub to the 8-5/8" Casing
3 Install bowl and BOPs
4 Drill out cement and wash down with stiff BHA to 8210' and tag plug
5 Spot plug from 7826-7200' with class G cement (160 sx) and tag once set
6 Spot plug from 50' below the base of the Fox Hills (75 sx) with class G cement and tag plug once set
7 Spot plug from 50' below the base of the Arapahoe (50 sx) with class G cement (no tag).
8 Set 20 sx surface plug. Cut off 4' below surface and cap with plate showing well details including:

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

Signed: _____ Print Name: Paul Gottlob
Title: Regulatory & Engin. Tech. Date: 7/24/2017 Email: paul.gottlob@iptenergyservices.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: 8/4/2017

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 2/3/2018

<u>COA Type</u>	<u>Description</u>
	NOTE: Changes in plugging procedure - additional plugs and plug depths changed 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 130' 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 (Form 6). GPS data must meet the requirements of Rule 215.

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
401348885	FORM 6 INTENT SUBMITTED
401349025	PROPOSED PLUGGING PROCEDURE
401349030	WELLBORE DIAGRAM
401349031	WELLBORE DIAGRAM

Total Attach: 4 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineer	Lower Dawson 5770 5775 2.0 82 77 0.64 E NNT Denver 4915 5733 339.6 937 119 92.38 NNT Upper Arapahoe 4426 4861 197.4 1426 991 53.69 NT Lower Arapahoe -- -- -- -- -- Laramie-Fox Hills 3842 4084 153.3 2010 1768 36.80 NT Deepest WW 2081' (6049')(2 mi)(1884' GR corrected this well) DIL this well 2080'	08/04/2017
Public Room	Well file not found for verification - passed task 07/28/17	07/28/2017
Permit	Verified lat/long location on COGIS map, but required as-built GPS data source is missing. Verified Well Completion Report Form 5 (Doc# 428731, 4/29/1975): no perfed interval. Sundry Notice Form 4 (Doc# 428732, 4/17/1975) reports abandonment of well, with cement plugs at 8210-8360', 1700-1910', 15 sacks across casing shoe, and 10 sacks at surface, as shown on attached current wellbore diagram. Well never produced; no production reporting found. Permitting review complete.	07/25/2017
Permit	Corrected Qtr/Qtr from SWNE to NWNE.	07/25/2017

Total: 4 comment(s)