

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.

Document Number:
401348885

Date Received:
07/24/2017

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:
Set 75 sks cmt from 2080 ft. to 1826 ft. Plug Type: OPEN HOLE Plug Tagged:
Set 50 sks cmt from 1476 ft. to 1306 ft. Plug Type: OPEN HOLE Plug Tagged:
Set 50 sks cmt from 940 ft. to 770 ft. Plug Type: OPEN HOLE 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 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

COA Type	Description
	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

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

Total Attach: 4 Files

General Comments

User Group	Comment	Comment Date
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)