

FORM
6Rev
12/05State 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:

400521730

Date Received:

12/04/2013

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: 10387

Contact Name: Sarah Hawkins

Name of Operator: US GEOLOGICAL SURVEY

Phone: (303) 2365767

Address: MS 939 BOX 25046

Fax:

City: DENVER State: CO Zip: 80225

Email: shawkins@usgs.gov

For "Intent" 24 hour notice required,

Name: Tel:

COGCC contact:

Email:

API Number 05-037-06006-00

Well Name: USGS

Well Number: HM-1-13

Location: QtrQtr: NWNW Section: 3 Township: 4S Range: 83W Meridian: 6

County: EAGLE

Federal, Indian or State Lease Number:

Field Name: Field Number: 99999

☐ Notice of Intent to Abandon☒ Subsequent Report of Abandonment

Only Complete the Following Background Information for Intent to Abandon

Latitude: 39.739306

Longitude: -106.684361

GPS Data:

Date of Measurement: 04/03/2013

PDOP Reading: 0.0

GPS Instrument Operator's Name: S. HAWKINS

Reason for Abandonment: ☐ Dry ☐ Production for Sub-economic ☐ Mechanical Problems☒ Other drilled to obtain research core onlyCasing to be pulled: ☐ Yes ☒ No

Estimated Depth:

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 | 10 | 6+5/8 | 17 | 54 | 25 | 54 | 0 | VISU |
| OPEN HOLE | 5 | | | 807 | | | | |

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth _____ with _____ sacks cmt on top. CIPB #2: Depth _____ with _____ 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 18 sks cmt from 180 ft. to 54 ft. Plug Type: OPEN HOLE Plug Tagged: ☐
Set 10 sks cmt from 54 ft. to 0 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: ☐

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 _____ sacks half in. half out surface casing from _____ ft. to _____ 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. of _____ inch casing

Plugging Date: 07/21/2013

*Wireline Contractor: USGS Research Drilling Crew

*Cementing Contractor: USGS Research Drilling Crew

Type of Cement and Additives Used: _____

Flowline/Pipeline has been abandoned per Rule 1103 ☐ 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: Sarah Hawkins

Title: GEOLOGIST

Date: 12/4/2013

Email: shawkins@usgs.gov

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: KRABACHER, JAY

Date: 4/2/2014

CONDITIONS OF APPROVAL, IF ANY:

COA Type

Description

| | |
|--|--|
| | |
|--|--|

Attachment Check List

Att Doc Num

Name

| | |
|-----------|-----------------------------|
| 400521730 | FORM 6 SUBSEQUENT SUBMITTED |
|-----------|-----------------------------|

Total Attach: 1 Files

General Comments

| <u>User Group</u> | <u>Comment</u> | <u>Comment Date</u> |
|-------------------|--|-----------------------|
| Engineer | P&A procedure included filling bottom of hole (up to cemented interval) with a bentonite slurry. | 4/2/2014 2:41:32 PM |
| Engineer | added open-hole segment to casing tab. Form 5 reports TD of 807'. core obtained from 6' (tp*) to 804' -- recovered 782'. core analyses will be released by USGS (web-site) in autumn of 2014. *tp = ? | 4/2/2014 2:35:37 PM |
| Permit | Passes Permitting. Plugging was done by USGS employees in Drilling group and no further report will be issued, as per Sarah Hawkins, USGS. | 3/24/2014 10:36:31 AM |

Total: 3 comment(s)