

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:

401125594

Date Received:

10/07/2016

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: 10459

Contact Name: John Zarra

Name of Operator: EXTRACTION OIL & GAS LLC

Phone: (720) 481-2395

Address: 370 17TH STREET SUITE 5300

Fax:

City: DENVER State: CO Zip: 80202

Email: JZarra@ExtractionOG.com

For "Intent" 24 hour notice required,

Name: Montoya, John

Tel: (970) 397-4124

COGCC contact:

Email: john.montoya@state.co.us

API Number 05-001-06978-00

Well Name: MINNICK

Well Number: 14-14

Location: QtrQtr: SWSW Section: 14 Township: 1S Range: 65W Meridian: 6

County: ADAMS

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: 39.960270

Longitude: -104.636900

GPS Data:

Date of Measurement: 05/31/2007

PDOP Reading: 4.2

GPS Instrument Operator's Name: Paul Tappy

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

Estimated Depth: 1410

Fish in Hole: ☐ Yes☒ No

If yes, explain details below

Wellbore has Uncemented Casing leaks: ☒ Yes☐ No

If yes, explain details below

Details: Noble suspected casing integrity issues and had plans to find these holes before we took over the well. Because they planned on unlanding casing and running in hole with 1-1/4" tubing behind 4-1/2", we suspect that the holes are likely shallow. Cutting casing at 1,410' may resolve this issue.

Current and Previously Abandoned Zones

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth
J SAND	7882	7927			

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	129	125	129	0	CALC
1ST	7+7/8	4+1/2	10.5	8,012	150	8,012	7,348	CALC

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7830 with 22 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 <u>156</u> sks cmt from <u>1510</u> ft. to <u>1060</u> ft.	Plug Type: <u>STUB PLUG</u>	Plug Tagged: <input checked="" type="checkbox"/>
Set <u>50</u> sks cmt from <u>760</u> ft. to <u>660</u> ft.	Plug Type: <u>OPEN HOLE</u>	Plug Tagged: <input checked="" type="checkbox"/>
Set <u>60</u> sks cmt from <u>430</u> ft. to <u>300</u> ft.	Plug Type: <u>OPEN HOLE</u>	Plug Tagged: <input type="checkbox"/>
Set _____ sks cmt from _____ ft. to _____ ft.	Plug Type: _____	Plug Tagged: <input type="checkbox"/>
Set _____ sks cmt from _____ ft. to _____ ft.	Plug Type: _____	Plug Tagged: <input type="checkbox"/>

Perforate and squeeze at 7250 ft. with 195 sacks. Leave at least 100 ft. in casing 6625 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 68 sacks half in. half out surface casing from 180 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. 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:

We will perform a Form 17 test on this well prior to P&A operations.
Our plan is to RIH and set CIBP @ 7,830', dump bail 2 sacks of cement on top. Afterwards, we will load the hole with water and run CBL to determine TOC and confirm whether or not any undocumented remedial cementing has taken place.
Loading the hole with water and pressuring up on the CIBP at 7,830' will also allow us to determine if there are any holes in casing. Sliding sleeve at 1,290' will be removed once we cut casing at 1,410'.
Squeeze job to provide additional coverage over the Niobrara will involve shooting two set of perms at 7,250' and 6,625'.

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

Signed: _____

Print Name: John Zarra

Title: Production Engineer

Date: 10/7/2016

Email: JZarra@ExtractionOG.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: 10/22/2016

CONDITIONS OF APPROVAL, IF ANY: _____

Expiration Date: 4/21/2017

COA Type	Description
	<p>NOTE: Changes in plugging procedure. CBL to be run prior to plugging to verify primary cement top, stage tool setting depth and any existing stage tool coverage - submit to COGCC for verification of plugging orders. Additional plugs required(760' and 430') .</p> <p>1) Provide 48 hour notice of plugging MIRU via electronic Form 42.</p> <p>2) For 1510' plug: pump plug and displace - tag plug – must be 1060' or shallower; 760' plug should be tagged 660' or shallower and if surface casing shoe plug not circulated to surface tag plug and provide 10 sx plug at the surface. 3) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.</p>
	<p>Prior to initiation of plugging operations, a Bradenhead test shall be performed. If any pressure remains at the conclusion of the test or any liquids were present call COGCC Engineer for sampling requirements. Form 17 shall be submitted within 10 days.</p> <p>Due to indications of possible holes in casing, a production gas sample should be taken and analyzed.</p> <p>The compositional analyses are to include hydrogen, argon, oxygen, carbon dioxide, nitrogen, methane (C1), ethane (C2), ethene, propane (nC3), isobutane (iC4), butane (nC4), isopentane (iC5), pentane (nC5), hexanes +, specific gravity and British Thermal Units (BTU).</p> <p>oStable isotope analyses are to include delta DC1, delta 13C1, delta 13C2, delta 13C3, delta 13iC4, delta 13nC4, delta 13iC5 (if possible), delta 13nC5 (if possible), and delta 13C of CO2 if possible.</p>

Attachment Check List

Att Doc Num	Name
401125594	FORM 6 INTENT SUBMITTED
401125765	WELLBORE DIAGRAM

Total Attach: 2 Files

General Comments

User Group	Comment	Comment Date
Engineer	<p>Denver 4984 5117 56.8 142 9 15.45 NNT</p> <p>Upper Arapahoe 4754 4953 123.0 372 173 33.46 NT</p> <p>Lower Arapahoe 4419 4679 106.4 707 447 28.94 NT</p> <p>Laramie-Fox Hills 3772 4012 128.3 1354 1114 30.80 NT</p> <p>Deepest WW 1380'</p>	10/22/2016 7:40:47 PM
Public Room	Document verification complete 10/14/16	10/14/2016 4:07:37 PM

Total: 2 comment(s)