

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:
 402800703
 Date Received:
 09/02/2021

OGCC Operator Number: 10656 Contact Name: Sam Bradley
 Name of Operator: MORNING GUN EXPLORATION LLC Phone: (970) 593-8626
 Address: 1601 ARAPAHOE ST Fax: _____
 City: DENVER State: CO Zip: 80202 Email: sb@s-companies.com

For "Intent" 24 hour notice required, Name: Petrie, Erica Tel: (303) 726-3822
 COGCC contact: Email: erica.petrie@state.co.us

Type of Well Abandonment Report: Notice of Intent to Abandon Subsequent Report of Abandonment

API Number 05-123-14146-00
 Well Name: CASTOR Well Number: 2
 Location: QtrQtr: NESW Section: 12 Township: 7N Range: 59W Meridian: 6
 County: WELD Federal, Indian or State Lease Number: 55849
 Field Name: GEMINI Field Number: 29950

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.587411 Longitude: -103.928020
 GPS Data: GPS Quality Value: 1.3 Type of GPS Quality Value: PDOP Date of Measurement: 08/19/2021
 Reason for Abandonment: Dry Production Sub-economic Mechanical Problems
 Other Horizontal Offset
 Casing 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: Replug

Current and Previously Abandoned Zones

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth
D SAND	6521	6527	02/08/1996	B PLUG CEMENT TOP	6470
Total: 1 zone(s)					

Casing History

Casing Type	Size of Hole	Size of Casing	Grade	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top	Status
SURF	12+1/4	8+5/8	Unknow	24	0	218	150	218	0	VISU
1ST	7+7/8	4+1/2	Unknown	10.6	5685	6659	150	6659	5784	CALC
OPEN HOLE	7+7/8				218	5685				

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 75 sks cmt from 5685 ft. to 5485 ft. Plug Type: OPEN HOLE Plug Tagged:
Set 75 sks cmt from 1675 ft. to 1475 ft. Plug Type: OPEN HOLE Plug Tagged:
Set 75 sks cmt from 560 ft. to 360 ft. Plug Type: OPEN HOLE Plug Tagged:
Set 15 sks cmt from 50 ft. to 0 ft. Plug Type: CASING 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 50 sacks half in. half out surface casing from 268 ft. to 168 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 Number of Days from Setting Surface Plug to Capping or Sealing the Well: _____
Surface Plug Setting Date: _____ Cut and Cap Date: _____

*Wireline Contractor: _____ *Cementing Contractor: _____

Type of Cement and Additives Used: _____

Flowline/Pipeline has been abandoned per Rule 1105 Yes No

Technical Detail/Comments:

Please see attached current WBD, proposed WBD with procedure, location picture, aquifer determination tool and surface owner consent. Well is being re-entered and abandoned for offset horizontal well. Operations need to begin on or before 9/20/21.

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

Signed: _____ Print Name: Ben Pittsley
Title: Consultant Date: 9/2/2021 Email: bp@s-companies.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: Wolfe, Stephen Date: 10/1/2021

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 3/31/2022

Condition of Approval

COA Type

Description

	<p>Plugging</p> <ol style="list-style-type: none"> 1) Provide 48 hour notice of plugging MIRU via electronic Form 42. 2) Contact COGCC Area Inspector prior to commencing plugging operations. 3) Plugs and squeezes will be placed as stated in the Plugging Procedure section of the approved NOIA unless revised by COA or prior approval from COGCC is obtained. 4) The wellbore must be static prior to placing cement plugs which are to be a minimum of 100' in length for all but surface plugs. Mechanical isolation requires a 25' cement plug, minimum. For plugs not specified to be tagged, a tag is required if circulation is not maintained while pumping plug and displacing to depth. Tag at tops specified or shallower. Notify COGCC Area Engineer before adding cement to previous plug. 5) Place a 50' plug (minimum) at the surface, both inside the inner most casing and in all annular spaces. Surface plugs shall be circulated to surface. Confirm cement to surface in all strings during cut and cap. 6) With the Form 6 SRA operator must provide written documentation which positively affirms each COA has been addressed. 7) Submit gyro survey with Form 6 SRA if available.
	<p>Venting</p> <p>Operator shall implement measures to control unnecessary and excessive venting, to protect the health and safety of the public, and to ensure that vapors and odors from well plugging operations do not constitute a nuisance or hazard to public welfare.</p>

2 COAs

Attachment List

Att Doc Num

Name

402800703	FORM 6 INTENT SUBMITTED
402800729	WELLBORE DIAGRAM
402800731	WELLBORE DIAGRAM
402800733	LOCATION PHOTO
402800734	SURFACE OWNER CONSENT
402800737	OTHER

Total Attach: 6 Files

General Comments

User Group

Comment

Comment Date

Engineer	Added open hole section to casing table	09/26/2021
Engineer	Groundwater: Laramie-Fox Hills, Upper Pierre Deepest Water Well: 206'(2mi)+4870-4789+50=337' Log: 123-14146 12/6/88 L-FH base 428', UPA base 1475'	09/26/2021
OGLA	Well is located in mapped Rule 1202.d Pronghorn Winter Concentration area. Avoid work with heavy equipment between January 1 through April 30 if possible.	09/22/2021
Permit	-Confirmed as-drilled well location. -Confirmed productive interval, docnum: 209471, 209463. -Reviewed attachments. Corrected name of one attachment. -Pass.	09/02/2021

Total: 4 comment(s)