FORM 6 Rev 11/20

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109

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Document Number: 403341522

Date Received: 06/08/2023

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: 10380 Contact Name: Deborah Abrams

Name of Operator: BENCHMARK ENERGY LLC Phone: (303) 8942100

Address: PO BOX 8747 Fax:

City: PRATT State: KS Zip: 67124 Email: deborah.abrams@state.co.us

For "Intent" 24 hour notice required, COGCC contact: Name: Schure, Kym Tel: (970) 520-3832 Email: kym.schure@state.co.us

Type of Well Abandonment Report: [X] Notice of Intent to Abandon [ ] Subsequent Report of Abandonment

API Number 05-075-05908-00

Well Name: NW GRAYLIN D SAND UNIT Well Number: 33 (OWP)

Location: QtrQtr: SWSW Section: 7 Township: 8N Range: 53W Meridian: 6

County: LOGAN Federal, Indian or State Lease Number:

Field Name: GRAYLIN NW Field Number: 31880

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.669254 Longitude: -103.351114

GPS Data: GPS Quality Value: 1.5 Type of GPS Quality Value: Date of Measurement: 07/06/2016

Reason for Abandonment: [ ] Dry [ ] Production Sub-economic [ ] Mechanical Problems

[X] Other OWP

Casing to be pulled: [ ] Yes [X] No Estimated Depth:

Fish in Hole: [ ] Yes [X] No If yes, explain details below

Wellbore has Uncemented Casing leaks: [ ] Yes [X] No If yes, explain details below

Details:

Current and Previously Abandoned Zones

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth
J SAND	4876	4880			

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	13+1/2	9+5/8	UNK	25.4	0	214	160	214	0	VISU
1ST	8+1/2	5+1/2	UNK	15.5	0	5084	150	5084	4216	CALC

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 4801 with 3 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 _____ 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: ☐

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 1200 ft. with 50 sacks. Leave at least 100 ft. in casing 1100 CICR Depth

Perforate and squeeze at 264 ft. with 110 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 15 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

Surface Plug Setting Date: _____ Cut and Cap Date: _____ Number of Days from Setting Surface Plug to Capping or Sealing the Well: _____

*Wireline Contractor: _____ *Cementing Contractor: _____

Type of Cement and Additives Used: _____

Flowline/Pipeline has been abandoned per Rule 1105 ☐ Yes ☐ No

Technical Detail/Comments:

Hole sizes are unknown, entered typical hole sizes for each casing string to pass validation.

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

Signed: _____ Print Name: Deborah Abrams

Title: OWP Date: 6/8/2023 Email: deborah.abrams@state.co.us

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: 6/13/2023

CONDITIONS OF APPROVAL, IF ANY: Expiration Date: 12/12/2023

COA Type	Description
	Bradenhead Testing Prior to starting plugging operations a bradenhead test shall be performed if there has not been a reported bradenhead test within the 60 days immediately preceding the start of plugging operations. 1) If, before opening the bradenhead valve, the beginning pressure is greater than 25 psi, sampling is required. 2) If pressure remains at the conclusion of the test, or if any liquids were present during the test, sampling is required. The Form 17 shall be submitted within 10 days of the test. Sampling shall comply with Operator Guidance - Bradenhead Testing and Reporting Instructions. If samples are collected, copies of all final laboratory analytical results shall be provided to the COGCC within three (3) months of collecting the samples. If there is a need for sampling, contact COGCC engineering for verification of plugging procedure.
	Consistent with Rule 911.a, a Form 27 must be approved prior to cut and cap, conducting flowline abandonment, or removing production equipment. Allow 30 days for Director review of the Form 27; include the Form 27 document number on the Form 44 for offsite flowline abandonment (if applicable) and on the Form 6 Subsequent.
	Properly abandon flowlines per Rule 1105. If flowlines will be abandoned in place, include with the Form 27: pressure test results conducted in the prior 12 months as well as identification of any document numbers for a COGCC Spill/Release Report, Form 19, associated with the abandoned line.
	Plugging 1) Provide electronic Form 42 Notice of MIRU 2 business days ahead of operations and electronic Form 42 Notice of Plugging Operations 48 hours prior to mobilizing for plugging operations. 2) 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. 3) 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. 4) 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. 5) With the Form 6 SRA operator must provide written documentation which positively affirms each COA has been addressed. 6) No current Form 17 on file with COGCC. Contact COGCC area engineer with results of pre-plugging bradenhead test for confirmation of plugging procedure prior to commencing plugging operations. 7) Operator must wait a sufficient time on all plugs to achieve the intended design. If at any time during the plugging there is evidence of previously unreported pressure or fluid migration, contact COGCC Area Engineer before continuing operations. 8) Plugging procedure has been modified as follows, Plug #1 - 4801', CIBP with 3 sx of cement. Plug #2 - 1200', perf and squeeze 50 sx into the CICR at 1100', spot 10 sx on top of CICR. Plug #3 - 264', perf and circulate 110 sx of cement to surface. If perfs will take fluid but do not circulate or circulation is lost, pump a minimum of 50 sx and displace to 114', 100' above the surface shoe, WOC and tag at 164' or shallower. Notify COGCC Area Engineer of insufficient cement prior to pumping additional plugs. Plug #6 - 50' of cement at the surface in both the casing and the annulus per COA #4. 9) Submit an updated WBD that corresponds with the approved 6(N) (if needed) prior to filing Form 42 Notifications required in COA #1 above.
4 COAs	

Attachment List

Att Doc Num	Name
403341522	WELL ABANDONMENT REPORT (INTENT)
403347906	WELLBORE DIAGRAM
403432596	FORM 6 INTENT SUBMITTED

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date
Engineer	Groundwater=Upper Pierre Deepest water well=700'(1mi, 19 records) Log=075-08980 10/26/82 4313' GR Pierre Shale 0-125' UP 125-990'	06/13/2023
OGLA	OGLA Review complete.	06/13/2023
Permit	Confirmed as-drilled well location. No other forms in process. Production reporting OK. Confirmed productive intervals docnum: 235772. Reviewed WBDs. Pass.	06/08/2023

Total: 3 comment(s)