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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: 47120 Contact Name: Doreen Green
 Name of Operator: KERR MCGEE OIL & GAS ONSHORE LP Phone: (970) 336-3555
 Address: P O BOX 173779 Fax: _____
 City: DENVER State: CO Zip: 80217- Email: doreen.green@anadarko.com

For "Intent" 24 hour notice required, Name: _____ Tel: _____
 Email: _____

API Number 05-123-23503-00
 Well Name: HERMAN FEDERAL Well Number: 16-7
 Location: QtrQtr: SESE Section: 7 Township: 2N Range: 66W Meridian: 6
 County: WELD 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: 40.146792 Longitude: -104.813301
 GPS Data:
 Date of Measurement: 04/23/2019 PDOP Reading: 1.2 GPS Instrument Operator's Name: PAT MCCLURE
 Reason for Abandonment: Dry Production Sub-economic Mechanical Problems
 Other _____
 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: _____

Current and Previously Abandoned Zones

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth
CODELL	7356	7373	04/05/2019	B PLUG CEMENT TOP	7080
NIOBRARA	7140	7274	04/05/2019	B PLUG CEMENT TOP	7080
Total: 2 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	666	455	666	0	VISU
1ST	7+7/8	4+1/2	11.6	7,513	500	7,513	3,920	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7080 with 25 sacks cmt on top. CIBP #2: Depth 4140 with 2 sacks cmt on top.
 CIBP #3: Depth 80 with 42 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 25 sks cmt from 7080 ft. to 6675 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:
 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 310 sacks half in. half out surface casing from 1335 ft. to 335 ft. Plug Tagged:
 Set 42 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: 1235 ft. 4+1/2 inch casing Plugging Date: 04/23/2019
 *Wireline Contractor: CUTTERS/RELIANCE *Cementing Contractor: BASIC
 Type of Cement and Additives Used: _____
 Flowline/Pipeline has been abandoned per Rule 1105 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: Doreen Green
 Title: Analyst Date: _____ Email: doreen.green@anadarko.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: _____ Date: _____

CONDITIONS OF APPROVAL, IF ANY:

COA Type	Description

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
402036567	GYRO SURVEY
402036568	WELLBORE DIAGRAM
402036570	OPERATIONS SUMMARY
402036571	WIRELINE JOB SUMMARY
402036588	CEMENT JOB SUMMARY

Total Attach: 5 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
		Stamp Upon Approval

Total: 0 comment(s)