

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:

400815774

Date Received:

03/26/2015

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: CHERYL LIGHT

Name of Operator: KERR MCGEE OIL & GAS ONSHORE LP

Phone: (720) 929-6461

Address: P O BOX 173779

Fax: (720) 929-7461

City: DENVER State: CO Zip: 80217-

Email: CHERYL.LIGHT@ANADARKO.COM

For "Intent" 24 hour notice required,

Name: Carlile, Craig

Tel: (970) 629-8279

COGCC contact:

Email: craig.carlile@state.co.us

API Number 05-123-17197-00

Well Name: HSR-REDMOND

Well Number: 12-21

Location: QtrQtr: NWSW Section: 21 Township: 3N Range: 67W 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: 40.209470

Longitude: -104.902220

GPS Data:

Date of Measurement: 08/30/2006

PDOP Reading: 6.0

GPS Instrument Operator's Name: THOMAS G. CARLSON

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

Estimated Depth: 816

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	7094	7114			
NIOBRARA	6832	6966			

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	583	410	583	0	VISU
1ST	7+7/8	4+1/2	11.6	7,239	200	7,239	6,000	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6790 with 25 sacks cmt on top. CIBP #2: Depth 80 with 25 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 25 sks cmt from 6790 ft. to 6400 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 4230 ft. with 165 sacks. Leave at least 100 ft. in casing 3850 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 135 sacks half in. half out surface casing from 916 ft. to 483 ft. Plug Tagged: ☒

Set 25 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:

5 MIRU, kill as necessary using clean fresh water with biocide. ND WH. NU BOP. Unseat landing jt, LD.
 6 POOH hole and SB tbq (216 jts landed at 7066').
 7 MIRU WL. RIH w/ gauge ring for 4-1/2" 11.6# csg to 6800'.
 8 RIH and Set 4-1/2" CIBP at 6790'. PT csg and CIBP to 1000 psi for 15 minutes. RDMO WL.
 9 Notify Cementers to be on call.
 10 RIH with 2-3/8" tbq RIH while hydrotesting to 3000 psi and tag CIBP set at 6790'. Record tag depth and pick up 5'.
 11 MIRU cementers. Pump Nio balanced casing plug: Pump 25 sks of Cement Blend: "G" w/ 20% silica flour, 0.4% CD -32, 0.4% ASA -301 and R-3 to achieve 2:30 pump time mixed at 15.8 ppg and 1.38 cuft/sk designed for coverage above CIBP from 6790' to 6400'.
 12 PUH to 6100 and circulate hole clean with fresh water and biocide. POOH standing back.
 13 MIRU WL. PU two 3-1/8" perf guns w/ 0.59" diam, 120 phasing and shoot 1' of squeeze holes at 4230' and 2' of squeeze holes at 3820'. RDMO WL.
 14 PU 4-1/2" CICR on 2-3/8" tbq. RIH and Set CICR at 3850'. Establish circulation through sqz holes.
 15 RU Cementers. Establish circulation, Pump Sussex Suicide plug: Pump 5 bbls fresh water followed by 20 bbls sodium metasilicate followed by 5 bbls fresh water ahead of cement: 165 sks (32 bbls) "G" w/ 0.25 pps cello flake, 0.4% CD-32, 0.4% ASA-301 with CaCl₂ as necessary. Mixed at 15.8 ppg, 1.15 cuft/sack. Underdisplace by 3 bbls and unsting from CICR. Spot final 3 bbls on top of CICR and sqz holes. Volume based on 8-1/2" x 4-1/2" annulus with 20% excess from 4223' to 3823', and 4-1/2" casing from 4223' to 3660'. RD Cementers.
 16 PUH 10 stands and circulate hole clean with fresh water and biocide. POOH standing back.
 17 MIRU WL. Crack coupling or jet cut 4-1/2" csg at 816'. Circulate approximately 120 bbls of fresh water and biocide to remove any gas from wellbore.
 18 ND BOP and tubing head. Install a BOP on surface casing head with 4-1/2" pipe rams. Install 3000 psi ball valves on both casing head outlets. Install a choke or choke manifold on one outlet.
 19 POOH and LD 4-1/2" csg. Remove the 4-1/2" pipe rams and Install 2-3/8" pipe rams.
 20 RIH w/ 2-3/8" WS open ended ~100' past the 4-1/2" csg stub to 916'.
 21 MIRU Cementers. Pump Fox Hills Balanced plug: Pump mud flush of 10 bbls SAPP followed by 20 bbls water ahead of 135 sx (32 bbls) Type III w/cello flake and CaCl₂ as deemed necessary, mixed at 1.33 cf per sack, 14.8 ppg. POH and WOC per cementing company recommendation. Plug size is based on 4-1/2" casing from 916' to 816' and 8" hole with 20% excess covering 816' to shoe of surface casing at 583' plus capacity of surface casing to 383'. PUH to 200' and Circulate out any excess cmt. TOH and WOC min of 4 hrs or per cement company recommendation.
 22 RIH and tag top of plug. Plug needs to be tagged at 483' or shallower. POOH and LD 2-3/8" tbq.
 23 RU wireline. Run and set CIBP in the 8 5/8", 24# surface casing at 80'. PT CIBP and surface casing to 1000 psi for 15 minutes. Assuming successful test, RD wireline. RDMO workover rig.
 24 Instruct cementing and wireline contractors to e-mail copies of all job logs/job summaries to rscDJVendors@anadarko.com within 24 hrs of completion of the job.
 25 Supervisor submit paper copies of all invoices, logs, and reports to Evans Specialist.
 26 Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.
 27 Excavate hole around surface casing enough to allow welder to cut casing minimum 5' below ground level.
 28 Welder cut casing minimum 5' below ground level.
 29 Fill casing to surface using 4500 psi compressive strength cement, (NO gravel).
 30 Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number.
 31 Properly abandon flowlines per Rule 1103. File electronic Form 42 once abandonment complete.
 32 Back fill hole with fill. Clean location, level.
 33 Submit Form 6 to COGCC ensuring to provide 'As performed' WBD identifying operation

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

Signed: _____ Print Name: CHERYL LIGHT
 Title: SR. REGULATORY ANALYST Date: 3/26/2015 Email: DJREGULATORY@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: SCHLAGENHAUF, MARK Date: 4/21/2015

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 10/20/2015

COA Type

Description

	1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU. 2) If unable to pull casing contact COGCC for plugging modifications. 3) For 916' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 533' or shallower. 4) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete. 5) Please submit existing gyro survey data with Form 6 (s) Subsequent Report of Abandonment.
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Attachment Check List

Att Doc Num**Name**

400815774	FORM 6 INTENT SUBMITTED
400815790	PROPOSED PLUGGING PROCEDURE
400815791	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group**Comment****Comment Date**

Permit	Well Completion Report dated 10/21/1993.	4/2/2015 9:10:55 AM
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Total: 1 comment(s)