

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

Replug By Other Operator

Document Number:

400801880

Date Received:

03/02/2015

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: Peterson, Tom

Tel: (303) 815-9641

COGCC contact:

Email: tom.peterson@state.co.us

API Number 05-123-07339-00

Well Name: HART B GAS UNIT

Well Number: 2

Location: QtrQtr: NWSW Section: 28 Township: 2N 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: 40.106090

Longitude: -104.901030

GPS Data:

Date of Measurement: 05/30/2006

PDOP Reading: 2.5

GPS Instrument Operator's Name: MICHAEL

Reason for Abandonment: ☐ Dry ☒ Production for Sub-economic ☐ Mechanical Problems☐ OtherCasing to be pulled: ☒ Yes ☐ No Estimated Depth: 1200Fish in Hole: ☐ Yes ☒ No If yes, explain details belowWellbore has Uncemented Casing leaks: ☐ Yes ☒ No If yes, explain details below

Details: Well was switched to Noble as Operator when they submitted as-built GPS data. The Well is operated by Kerr-McGee. Kerr-McGee has been unsuccessful in getting well put back under Operator 47120 and we need to get it plugged.

Current and Previously Abandoned Zones

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth
J SAND	8130	8148			

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	653	500	653	0	VISU
1ST	7+7/8	4+1/2	11.6	8,218	150	8,218	7,840	CALC

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 8080 with 2 sacks cmt on top. CIPB #2: Depth 80 with 25 sacks cmt on top.
CIBP #3: Depth _____ with _____ sacks cmt on top. CIPB #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 7800 ft. with 250 sacks. Leave at least 100 ft. in casing 7020 CICR Depth

Perforate and squeeze at 5260 ft. with 610 sacks. Leave at least 100 ft. in casing 4290 CICR Depth

Perforate and squeeze at _____ ft. with _____ sacks. Leave at least 100 ft. in casing _____ CICR Depth

(Cast Iron Cement Retainer Depth)

Set 450 sacks half in. half out surface casing from 1300 ft. to 550 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.
6 TOO H with tubing, SB.
7 PU casing scraper for 4 1/2", 11.6 #/ft casing. RIH with casing scraper on tubing to 8090'. POOH, LD scraper and SB tubing.
8 PU 4 1/2", 11.6 #/ft CIBP. RIH on tubing and set @ 8080'. Circulate one wellbore volume to remove any gas (about 125 bbls) to ensure quality CBL.
9 Pressure test the CIBP to 1000 psi for 15 minutes.
10 MIRU WL. Run CBL/CCL from 8050' to surface. Forward results to nicole.schaly@anadarko.com and brent.marchant@anadarko.com. Confirm with Evans Engineering before moving forward with Niobrara suicide squeeze.
11 Dump bail 2 sx of cement on CIBP set at 8080'.
12 PU and RIH with 2-1', 3-1/8" perf guns with 3 spf, 0.50" EHD, 120° phasing. Shoot 1' of squeeze holes at 7800' and 6990'. RD WL.
13 RU hydrotester. PU 4 1/2" CICR and RIH on tubing to set at 7020' while hydrotesting to 3000 psi.
14 Establish circulation with fresh water treated with biocide.
15 RU Cementers. Pump Niobrara suicide squeeze: 250 sx (428 cuft) 50/50 Poz "G" w/ 20% silica flour, 3% gel, 0.1% sodium metasilicate and 0.4% FL-52 mixed at 13.5 ppg and 1.71 cuft/sk. Underdisplace by 3 bbls and unsting from CICR spotting at least 100' on top of squeeze holes. The plug will cover 7800' - 6890'. Volume based on 810' in 9" OH from caliper with 20% excess, 910' in 4 1/2" production casing with no excess. RDMO cementers.
16 PUH to 6700' and circulate tubing clean to ensure no cement is left in the tubing.
17 P&SB 4290' of tubing, LD remainder.
18 MIRU WL. PU and RIH with 2-1', 3-1/8" perf guns with 3 spf, 0.50" EHD, 120° phasing. Shoot 1' of squeeze holes at 5260' and 4260'. RD WL.
19 PU 4 1/2" CICR and RIH on tubing to set at 4290'.
20 Establish circulation with fresh water treated with biocide.
21 RU Cementers. Pump 20 bbl sodium metasilicate and a 5 bbl water spacer. Pump Sussex Suicide: 610 sx (701.5 cuft) Class "G" cement with 0.25 pps cello flake, 0.4% CD-32, 0.4% ASA-301 mixed at 15.8 ppg and 1.15 cuft/sx. Underdisplace by 3 bbls and unsting from CICR spotting at least 100' cement on top of squeeze holes. The plug will cover 5260' - 4160'. Volume based on 1000' in 10.5" OH from caliper with 20% excess, 1100' in 4 1/2" production casing with no excess. RDMO cementers.
22 PUH to 4000' and circulate to ensure no cement left in the tubing.
23 P & SB 1300' of tubing, LD remainder.
24 MIRU WL. RIH and cut casing at 1200'. RDMO WL.
25 Circulate with fresh water containing biocide to remove any gas.
26 NDBOP, NDTH. Install BOP on casing head with 4 1/2" pipe rams.
27 TOO H with 1200' of 4 1/2" casing, LD. Replace 4 1/2" pipe rams with 2 3/8" pipe rams.
28 RIH with 2 3/8" tubing to 1300' (100' into casing stub).
29 MIRU Cementers. Preceed cement with 10 bbl (min) SAPP followed by a 20 bbl fresh water spacer. Pump Stub Plug: 450 sx (599 cuft) Type III w/ cello flake and CaCl₂ as deemed necessary, mixed at 14.8 ppg and 1.33 cuft/sx (100' in 4 1/2" production casing with no excess, 547' in 12" OH from caliper with 20% excess, 203' in 8 5/8" surface casing with no excess). The plug will cover 1300' - 550'.
30 Pull up to 100' and circulate tubing clean using fresh water treated with biocide. TOO H.
31 WOC per cement company recommendation. Tag cement. Cement top needs to be above 553'.
32 MIRU WL. RIH 8 5/8" CIBP and set at 80'. Set and pressure test to 1000 psi for 15 minutes. RDMO WL and WO rig.
33 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.
34 Supervisor submit paper copies of all invoices, logs, and reports to Joleen Kramer.
35 Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.
36 Excavate hole around surface casing enough to allow welder to cut casing minimum 5' below ground level.
37 Welder cut casing minimum 5' below ground level.
38 Fill casing to surface us

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: 3/2/2015 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: 3/31/2015

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 9/29/2015

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 1300' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 603' or shallower. 4) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete. 5) Please submit gyro survey data with Form 6 (s) Subsequent Report of Abandonment.

Attachment Check List

Att Doc Num	Name
400801880	FORM 6 INTENT SUBMITTED
400801884	PROPOSED PLUGGING PROCEDURE
400801885	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date
Permit	Well Completion Report dated 10/14/1971.	3/2/2015 4:20:21 PM

Total: 1 comment(s)