

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:

400812635

Date Received:

03/20/2015

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 05-123-09134-00

Well Name: DEEMS

Well Number: 1

Location: QtrQtr: SWSE Section: 11 Township: 2N Range: 67W Meridian: 6

County: WELD

Federal, Indian or State Lease Number:

Field Name: SPINDLE

Field Number: 77900

☒ Notice of Intent to Abandon☐ Subsequent Report of Abandonment

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.147467

Longitude: -104.865132

GPS Data:

Date of Measurement: 11/26/2014

PDOP Reading: 1.7

GPS Instrument Operator's Name: BEN MILIUS

Reason for Abandonment: ☐ Dry ☐ Production for Sub-economic ☐ Mechanical Problems☒ Other RE-ENTER AND PLUGCasing to be pulled: ☒ Yes ☐ No

Estimated Depth: 2500

Fish in Hole: ☐ Yes ☒ No If yes, explain details belowWellbore has Uncemented Casing leaks: ☐ Yes ☒ No If yes, explain details below

Details: This well was drilled and abandoned in 1977 as an openhole Niobrara completion. This well was originally abandoned on 06/23/77. The purpose is to reenter and adequately replug prior to hydraulic stimulation of proposed horizontal well per DJ Basin Offset Policy dated December 16, 2012. Well will be re-entered to add cement above the Niobrara, cover the Sussex, and add cement to cover the Fox Hills marker. The 5-1/2" casing was cut and pulled from 6388'. This well is within ~200 feet of planned HZ lateral and needs a gyro run for anti-collision. We will attempt to re-enter the stub to lay a plug from at least 100' into the stub to 400' on top of the stub in the openhole.

Formation is Open-Hole Niobrara with a sand plug with 10 sacks of cement.

Current and Previously Abandoned Zones

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth
NIOBRARA	7195	7365	06/23/1977	CEMENT	7144

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	430	260	430	0	VISU
1ST	7+7/8	5+1/2	15.5/17	7,195	75	7,195	6,821	CALC

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 80 with 25 sacks cmt on top. CIPB #2: Depth _____ with _____ 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 200 sks cmt from 6488 ft. to 5980 ft. Plug Type: CASING Plug Tagged: ☒
Set 1050 sks cmt from 5164 ft. to 4156 ft. Plug Type: OPEN HOLE 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 1000 sacks half in. half out surface casing from 1300 ft. to 230 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:

Closed loop system will be used.
Re-plug and re-entry procedure attached

Surface Owner Consent:

In order to comply with the Horizontal Offset Policy and the COA for the completion of a number of wells, including the Vollmar 4N-11HZ well, and possibly other wells, KMG is relying on lease rights for access to the surface to remediate the Deems #1 Well. Those lease rights extend from leases that cover the Township 2 North, Range 67 West, Section 11, SW ¼ and other lands, as well as leases that cover the drilling unit for the Vollmar 4N-11HZ well which is 2N-67W-Section 2: SWSW; Section 11: W/2W/2; and Section 14 NWNW. The Deems #1 Well falls within the referenced drilling unit.

Kerr-McGee would like to request a pre-inspection of the property prior to us going in to start the re-enter project.

3 MIRU workover rig equipped for openhole re-entry work. NU 9" 3000 psi BOP stack on casing head. PT BOP and csg head per approved Form 2. Function test BOPE. NU rotating head on BOP. Hook up return line to shale shaker on flat tank. Spot trailer with 233 jnts of 2-7/8" WS, necessary drill collars and bits.

4 PU 7 7/8" rock bit, necessary drill collars and drill pipe/work string (WS). Drill through existing cement plugs at surface (10 sk) and at the base of surface casing (15 sk plug ~380'-425") using fresh water with biocide.

5 Once surface cement plugs are drilled, displace hole with drilling mud and continue in hole. Consider rigging up mud mixing equipment on site.

6 RIH to 1380' and drill out 35 sk plug.

7 Continue to RIH, circulating and cleaning the hole to the 5-1/2" casing stub at 6388'.

8 POOH and lay down drill bit and drill collars as necessary.

9 Notify Cementers to be on call.

10 RIH while hydrotesting to 3000 psi open ended to the 5-1/2" casing stub @ 6388'. Attempt to re-enter the 5-1/2" stub. Circulate and RIH to 10sx cement plug at PBTD at 7144'. Circulate out sand/fill but no need to run in with a bit. Contact Evans Engineering if unable to get at least 100' into the stub.

11 RU VES. Run gyro from EOT to surface. Send results to Sabrina Frantz and the COGCC. RD VES.

12 RU Cementers. Pump Nio stub plug. Spot cement plug consisting of 342 cu-ft (200 sx) "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 yield. Volume based on 756' inside the 5-1/2" csg and 400' in the openhole assuming 8.5" hole size and 20% excess.

13 POOH to ~ 5000' and circulate hole clean with mud. WOC per cement company recommendation. Tag plug at 6050'. LD WS to place end of WS at 5164'.

14 Pump Sussex balanced plug. Spot cement plug consisting of 1208 cu-ft (1050 sx) "G" w/0.25pps cello flake, 0.4% CD-32, 0.4% ASA-301 with CaCl₂ as necessary. Mixed at 15.8 ppg, 1.15 cuft/sack. Cement to be preceded by sodium metasilicate mixed in 20 bbls water per cementing company recommendation. Calculated top of plug is 4156' based on 13.5" hole with 20% excess.

15 POOH to ~ 3600' and circulate clean. WOC per cement company recommendation. Tag plug at 4156'. LD WS to place end of WS at 1300'.

16 Pump Fox Hills balanced plug. Pump mud flush of 10 bbls SAPP then 20 bbls water spacer ahead of 1330 cu-ft (1000 sx) Type III w/cello flake and CaCl₂ as deemed necessary, mixed at 1.33 cf per sack, 14.8 ppg. Plug size is based on 13.5" hole with 40% excess covering 1300' to shoe of surface casing at 430' plus capacity of surface casing to 230'. TOH and WOC per cement company recommendation

17 Tag top of plug at 230'. POOH and LD WS.

18 PU casing scraper for 8-5/8" and RIH to 100'. POOH and LD scraper and WS.

19 RU WL. 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 WL. RDMO WO Rig.

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: 3/20/2015 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: 4/14/2015

CONDITIONS OF APPROVAL, IF ANY:

Expiration Date: 10/13/2015

COA Type

Description

- 1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU.
- 2) For 1300' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 380' or shallower.
- 3) Please submit gyro survey data with Form 6 (s) Subsequent Report of Abandonment.

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400812635	FORM 6 INTENT SUBMITTED
400812640	PROPOSED PLUGGING PROCEDURE
400812641	WELLBORE DIAGRAM
400812694	LOCATION PHOTO
400812696	LOCATION PHOTO

Total Attach: 5 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Surface access is granted by lease per operator. Ok'd by Permit Supervisor.	3/23/2015 3:05:37 PM
Permit	Well Completion Report dated 5/20/1977. SRA dated 5/20/1977. ON HOLD: Requesting Surface owner consent.	3/23/2015 1:46:27 PM

Total: 2 comment(s)