FORM 6 Rev 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: 400779074

Date Received: 01/23/2015

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, COGCC contact: Name: Carlile, Craig Tel: (970) 629-8279 Email: craig.carlile@state.co.us

API Number 05-123-10152-00

Well Name: RUSCH Well Number: 34-15

Location: QtrQtr: NWSE Section: 15 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: 40.221996 Longitude: -104.873213

GPS Data:

Date of Measurement: PDOP Reading: GPS Instrument Operator's Name:

Reason for Abandonment: ☐ Dry ☐ Production for Sub-economic ☐ Mechanical Problems

☒ Other RE-ENTER AND PLUG

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: The well was originally drilled and abandoned 03/31/81 by MGF Oil Corp. Purpose is to reenter and adequately replug prior to hydraulic stimulation of proposed horizontal well per DJ Basin Offset Policy dated December 16, 2013.

"While drilling at 7106' surface casing parted. Subsequent attempts to tie back surface casing were unsuccessful." Well was plugged with reported 100 sacks of cement from 167' to surface. We will attempt to set a 12" surface casing over the existing 8-5/8" with a dual air rotary rig, attempt to tie back the 8-5/8" to surface and drill out cement and re-enter openhole to propoerly plug the well. The top of the Nio is 6825'

Current and Previously Abandoned Zones

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth

Total: 0 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	200	180	200	80	CALC
OPEN HOLE	7+7/8			7,106				

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth _____ with _____ 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 320 sks cmt from 7106 ft. to 6400 ft. Plug Type: OPEN HOLE Plug Tagged: ☐

Set 400 sks cmt from 4220 ft. to 3800 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 710 sacks half in. half out surface casing from 1000 ft. to 30 ft. Plug Tagged: ☒

Set 10 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:

a. As-built well location GPS data will be submitted on the Form 6 Subsequent Report of Abandonment.
b. Closed loop system will be used.
c. Re-plug and re-entry procedure attached.
1 The 8-5/8" casing parted during drilling ops at 7106' and approx. 78' was recovered during P&A in 1981, so expected 8-5/8" casing stub is ~68' below ground level. Excavate down 10'-15' looking for cemented column. Set ~16" culvert over cemented column and slowly backfill location to leave top of culvert 1' above ground level. Hole was filled with 10# mud prior to Abandonment.
2 Prepare location for basebeam workover rig. Install perimeter fence as needed.
3 Provide 48 hr notice to COGCC prior to rig up per request on approved Form 6 (e.g. call field coordinator, submit Form 42, etc.).
4 MIRU DR-24 Dual Rotary Air rig over 16" culvert conductor. Hook up return line from 16" culvert to dumpster or tank to contain cuttings. Spot 5-20' joints of 12" pipe.
5 MU casing shoe with welded tungsten carbide buttons to drill with casing.
6 Air drill down over the cemented 12-1/4" hole with 12" casing down to ~70'. POOH drill string and LD bit. RIH with camera to see how the 12" casing is lined up over casing stub. Attempt to swallow the 8-5/8" into the 12" casing and continue drilling down 20'. Circulate hole clean with air. Dump cement down backside to cement in the 12" casing down to ~100'.
7 PU 7 7/8" junk mill or rock bit and drill through existing cement inside the 8-5/8" stub at least 5' in order to make a clean cut.
8 RIH with inside casing cutter. Cut 8-5/8" casing. Fish on casing stub and POOH and LD stub. RIH with mill and dress top of casing. POOH and LD mill.
9 PU casing patch for 8-5/8" 24# casing and RIH and set at casing stub at ~70'.
10 PU 2 joints of 8-5/8" 24# casing and engage patch. Circulate 20 sacks Type 3 cement down the 8-5/8" taking returns to surface up the 12" x 8-5/8" annulus. Displace with 5 bbls freshwater followed by wiper plug. WOC 8 hours and then RIH and tag wiper plug. RDMO Dual Rotary Rig.
11 Cut 8-5/8" to ground level and install 8 5/8"x 11" SOW, 3M casing head with 3000 psi ball valves in both outlets.
12 MIRU openhole re-entry capable workover rig. 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 225 joints of 2-7/8" WS.
13 PU 7 7/8" junk mill or rock bit, necessary drill collars and drill pipe. Drill through existing cement plugs from 80' to 167' w/ water.
14 Once cement plug is drilled, swap over to mud and continue RIH and tag TD at ~7106'. Circulate well with mud to get all gas out of hole and to condition the hole. Notify Evans Engineering of tag depth.
15 POOH and LD drill collars and bit. RIH WS open ended back to TD at ~7106'. Notify Cementers to be on call.
16 RU VES. Run gyro survey from end of WS to surface making stops every 100'. Send invocie and results to Sabrina Frantz in the Evans office. RD VES.
17 "RU Cementers. Pump Niobrara balanced plug of 320 sacks (78 bbls) ""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. Plug size based on 9"" hole and 40% excess. Calculated TOC is 6400'.
18 PUH to 6000' and circulate excess cement out. Continue P&LD to leave end of WS at 4220'.
19 Pump 20 bbls sodium metasilicate followed by fresh water spacer of at least 20 bbls immediately ahead of cement.
20 "Pump Sussex balanced plug consisting of 400 sacks (82.3 bbls) ""G"" w/ 0.25 pps cello flake , 0.4% CD-32, 0.4% ASA - 301, mixed at 15.8 ppg and 1.15 cuft/sk. Plug size based on 12"" hole and 40% excess. Calculated TOC is at 3800'. RD Cementers.
21 PUH to 3300' and circulate out excess cement. WOC 4 hours then RIH and tag TOC.
22 P&LD to leave end of WS at 1000'.
23 RU Cementers. Pump 10 bbls SAPP mud flush followed by 20 bbls fresh water immediately ahead of 710 sacks (168 bbls) Type

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: 1/23/2015 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: 3/2/2015

CONDITIONS OF APPROVAL, IF ANY: Expiration Date: 9/1/2015

COA Type	Description
	1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU. 2) For 1000' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 50' or shallower. If shoe plug not circulated to surface then place 10-40 sx inside casing at surface. 3) Please submit gyro survey data with Form 6 (s) Subsequent Report of Abandonment. 4) Provide well location GPS coordinates on Subsequent Report of Abandonment in accordance with COGCC As-Built Location Policy and Rule 215.

Attachment Check List

Att Doc Num	Name
400779074	FORM 6 INTENT SUBMITTED
400779078	SURFACE OWNER CONSENT
400779079	LOCATION PHOTO
400779080	PROPOSED PLUGGING PROCEDURE
400779081	WELLBORE DIAGRAM

Total Attach: 5 Files

General Comments

User Group	Comment	Comment Date
Permit	Accurate as-drilled GPS data will be submitted on the Form 6 SRA per the operator. Original plugging report 12310152 filed in 1981.	1/30/2015 9:30:19 AM

Total: 1 comment(s)