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

Document Number: 400758006

Date Received: 12/22/2014

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 05-123-07755-00

Well Name: JACOB SCHLEGEL Well Number: 1

Location: QtrQtr: SWNE Section: 32 Township: 3N Range: 65W 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: 40.184620 Longitude: -104.683780

GPS Data:

Date of Measurement: 07/17/2006 PDOP Reading: 3.0 GPS Instrument Operator's Name: Paul Tappy

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

☐ Other

Casing to be pulled: ☒ Yes ☐ No Estimated Depth: 350

Fish in Hole: ☐ Yes ☒ No If yes, explain details below

Wellbore has Uncemented Casing leaks: ☒ Yes ☐ No If yes, explain details below

Details: Squeeze perfs @ 6990' cmt'd w/200 sx 12/4/1992. Squeeze perfs @ 2630' cmt'd w/100sx 1/24/1993
Squeeze perfs @ 2025' cmt'd w/ 50 sx 6/17/2011 and 50 sx 6/23/2011. Casing leaks 1178' - 1209' squeezed w/ 200 sx 6/29/2011.
Csg leaks 1330' - 1646' found 12/19/2014.

Current and Previously Abandoned Zones

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth
CODELL	7230	7243	12/19/2014	B PLUG CEMENT TOP	6940
NIOBRARA	6990	7100	12/19/2014	B PLUG CEMENT TOP	6940
J SAND	7692	7706	12/04/1992	B PLUG CEMENT TOP	7440

Total: 3 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	215	225	215	0	VISU
1ST	7+7/8	4+1/2	10.5	7,834	300	7,834	6,650	CBL
S.C. 1.1				2,770	100	2,770	2,616	CBL
S.C. 2.1				2,522	100	2,522	1,982	CBL
S.C. 3.1				1,245	200	1,245	1,070	CBL
			Stage Tool	622	200	622	368	CBL

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 25 sks cmt from 6940 ft. to 6550 ft. Plug Type: CASING Plug Tagged: ☐

Set 75 sks cmt from 2870 ft. to 1900 ft. Plug Type: CASING Plug Tagged: ☒

Set 50 sks cmt from 1300 ft. to 550 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: ☐

Perforate and squeeze at 4550 ft. with 300 sacks. Leave at least 100 ft. in casing 4180 CICR Depth

Perforate and squeeze at 1330 ft. with 50 sacks. Leave at least 100 ft. in casing 1300 CICR Depth

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

(Cast Iron Cement Retainer Depth)

Set 140 sacks half in. half out surface casing from 450 ft. to 100 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:

4 MIRU, kill as necessary using clean fresh water with biocide. ND WH. NU BOP. Unseat landing jt, LD.
5 TOOH and stand back 2 3/8" tbg.
6 TIH with 2 3/8" tbg open ended to tag CIBP at 6940'. Hydro -test tbg to 3000 psi.
7 RU cementers and equalize a balanced plug above CIBP from 6940' to 6550' as follows: 25 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. (35 cuft of slurry).
8 POH 10 stands and circulate tbg clean using fresh water treated with biocide. TOOH standing back min. 4180' of tbg.
9 RUWL. PU 2 - 1' 3-1/8" perf guns with 3 spf, 0.5" dia 120° phasing. Shoot 1' of squeeze holes at 4550' and 4150'. RDWL.
10 PU CICR on 2 3/8" tbg. RIH and set CICR at 4180'.
11 RU Cementers. Pump 5 bbl water w/ biocide, 20 bbl Sodium Metasilicate, and another 5 bbl spacer immediately preceding cement.
12 Pump Sussex Suicide: 300 sx class "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 (345 cuft of slurry) to place cement between perfs. Underdisplace and sting out of CICR to leave 3 bbls cement on top of retainer. Cement volume based on 11.5" hole with 20% excess. Caliper log on file.
13 POH 10 stands. Circulate water containing biocide to clear tubing. POH standing back ~2870' of tbg. LD stinger for CICR.
14 RIH with 2 3/8" tubing open-ended to 2870'
15 RU cementers. Pump a balanced plug in 4 1/2" csg from 2870' - 1900': 75 sx class "G" w/ 0.4% CD-32, 0.4% ASA-301 mixed at 15.8 ppg and 1.15 cuft/sk (87 cuft of slurry).
16 POH to ~1800'. Circulate clean with water containing biocide. WOC per cementing company recommendation.
17 Tag top of plug at 1900'. POH standing back ~1300' of tbg.
18 PU CICR on 2 3/8" tbg. RIH and set CICR at 1300'.
19 RU cementers and squeeze casing leaks between 1330' and 1646' with 50 sx class "G" w/ 0.4% CD-32, 0.4% ASA-301 mixed at 15.8 ppg and 1.15 cuft/sk (58 cuft of slurry).
20 Sting out of CICR and circulate clean with water containing biocide. POOH and SB tbg. LD stinger for CICR.
21 RIH with 2 3/8" tubing open-ended to CICR @ 1300'
22 RU cementers. Pump a balanced plug in 4 1/2" casing from 1300' - 550': 50 sx Type III w/ CaCl2 as deemed necessary mixed at 14.8 ppg and 1.33 cf/sx (67 cuft of slurry).
23 POH to 450' and circulate clean with water containing biocide. POOH and SB tbg.
24 RU WL. Crack coupling or cut casing at 350'. RDMO WL. Circulate bottoms up and continue circulating to remove any gas from wellbore.
25 ND BOP and wellhead. Install 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.
26 TOOH and LD 4 1/2" casing.
27 RIH with 2 3/8" tubing open-ended to 450' (100' inside 4 1/2" stub).
28 RU cementers. Pump 10 bbl SAPP (Sodium Acid Pyrophosphate) followed by 20 bbl (min.) fresh water spacer immediately preceding cement.
29 Pump balanced Stub Plug 450'-100' : 140 sx Type III w/0 .25#/sk cello flake and CaCl2 as deemed necessary mixed at 14.8 ppg and 1.33 cf/sx (186 cuft of slurry). Cement volume based on 100' in 4 1/2" csg, 115' in 8 5/8" csg, and 135' in 11.5" OH + 40% excess.
30 TOOH. WOC per cementing company recommendation. Tag Cement. TOC should be at or above 115'. If not, consult Evans Engineering.
31 MIRU WL. RIH 8 5/8" CIBP to 80'. Set and PT to 1000 psi for 15 min. If tests, RDMO WL and WO rig.
32 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.
33 Supervisor submit paper copies of all invoices, logs, and reports to Joleen Kramer.
34 Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.
35 Excavate hole around surface casing enough to allow welder to cut 8 5/8" casing minimum 5' below ground level.
36 Welder cut 8 5/8" casing minimum 5' below ground level.
37 Fill casing to surface

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: 12/22/2014 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: 12/24/2014

CONDITIONS OF APPROVAL, IF ANY: Expiration Date: 6/23/2015

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 450' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 165’ or shallower. 4) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete. 5) Please submit wireline contractor report for CIBP @ 6940' with Form 6 (s) Subsequent Report of Abandonment. 6) please provide available reports on 2011 cement squeezes with Form 6 (s) Subsequent Report of Abandonment.

Attachment Check List

Att Doc Num	Name
400758006	FORM 6 INTENT SUBMITTED
400758007	PROPOSED PLUGGING PROCEDURE
400758008	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date
Permit	Well Completion Reports dated 6/25/1974 & 6/23/1993.	12/23/2014 8:13:04 AM

Total: 1 comment(s)