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

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Document Number: 400876671

Date Received: 07/29/2015

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: Adrielle Stanley

Name of Operator: KERR MCGEE OIL & GAS ONSHORE LP Phone: (720) 929-6487

Address: P O BOX 173779 Fax: (720) 929-7487

City: DENVER State: CO Zip: 80217- Email: adrielle.stanley@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 05-123-16771-00

Well Name: HSR-MCEWEN Well Number: 3-28A

Location: QtrQtr: NENW Section: 28 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: 40.202483 Longitude: -104.897678

GPS Data:

Date of Measurement: 04/21/2009 PDOP Reading: 1.7 GPS Instrument Operator's Name: Cody Mattson

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

☐ Other

Casing to be pulled: ☒ Yes ☐ No Estimated Depth: 870

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	7101	7120			
J SAND	7510	7554			
NIOBRARA	6845	6981			

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	626	440	626	10	VISU
1ST	7+7/8	4+1/2	11.6	7,245	275	7,245	6,026	CBL
S.C. 1.1	7+7/8	4+1/2	11.6	4,872	210	4,872	4,150	CBL
1ST LINER	3+7/8	2+7/8	6.5	7,663	21	7,663	7,173	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7170 with 2 sacks cmt on top. CIPB #2: Depth 6790 with 25 sacks cmt on top.

CIBP #3: Depth 80 with 25 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 6790 ft. to 6360 ft. Plug Type: CASING Plug Tagged: ☐

Set 25 sks cmt from 4920 ft. to 4670 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: ☐

Perforate and squeeze at 4080 ft. with 140 sacks. Leave at least 100 ft. in casing 3830 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 140 sacks half in. half out surface casing from 970 ft. to 526 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:

1
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.). Call Automation Removal Group at least 24 hr prior to rig move. Request they isolate production equipment and remove any automation prior to rig MIRU.
2
Check and report surface casing pressure. If surface casing is not accessible at ground level, re-plumb so valve is at ground level.
3
Prepare location for base beam equipped rig. Install perimeter fence as needed.
4
MIRU, kill well as necessary using clean fresh water with biocide. ND WH. NU BOP. Unseat landing jt.
5
TOOH and stand back 2 3/8" tbg: 219 jts total landed @ 7163'. LD 10 jts 1.66" IJ tbg.
6
MIRU WL. RIH w/ gauge ring for 4 1/2" 11.6# csg to 2 7/8" liner top @ 7173'. RIH 4 1/2" CIBP and set at 7170' to abandon J sand perfs.
7
PU dump bailer and spot 2 sacks of cement on CIBP @ 7170'.
8
RIH 4 1/2" CIBP and set at 6790' to abandon Codell and Niobrara perfs. Pressure test plug and csg to 1000 psi for 15 minutes. RDWL.
9

RIH 2 3/8" tbg open-ended to CIBP @ 6790'. Hydro-test tbg to 3000 psi.
10
RU cementers and equalize a balanced plug above CIBP from 6790' to 6360' as follows: 25 sx "Thermal 35" + 0.5% CFR-2 + 0.25% FMC, mixed at 15.6 ppg and 1.51 cuft/sk. (38 cuft of slurry).
11
Pull and LD tbg to ~6000' and reverse circulate clean w/fresh water treated with biocide.
12
TOOH and LD tbg to place EOT @ 5000'.
13
RU cementers. Place a balanced plug in casing from 5000' to 4670': 25 sx class "G" w/ 0.5% CFR-2, 0.2% FMC, 0.5% LWA mixed at 15.8 ppg and 1.15 cf/sk. (29 cuft of slurry).
14
TOH 10 stands and reverse circulate clean w/fresh water treated with biocide to clear tbg and csg. WOC per cementing company recommendation.
15
TIH and tag plug. Tag should be at or above 4770'. If not, consult Evans Engineering.
16
TOH and stand back 3830' of tbg. LD remainder.
17
RUWL. PU 2 - 3-1/8" perf guns with 3 spf, 0.5" dia 120° phasing. Shoot 1' of squeeze holes at 4080' and 2' of holes at 3800'. RDWL.
18
PU CICR on 2 3/8" tbg. RIH and set CICR at 3830'.
19
RU Cementers. Establish circulation with biocide-treated water. Pump 5 bbl water w/ biocide, 20 bbl Sodium Metasilicate, and another 5 bbl spacer immediately preceding cement.
20
Pump Sussex Suicide: 140 sx class "G", w/0.25 pps Polyflake + 0.5% CFR-2 + 0.2% FMC + 0.5% LWA mixed at 15.8 ppg and 1.15 cuft/sk (160 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 9" hole with 20% excess. Caliper log on file.
21
TOH 10 stands. Circulate water containing biocide to clear tubing. TOH standing back 970' of tbg.
22
RU WL. Cut casing at 870'. Circulate bottoms up and continue circulating to remove any gas from wellbore. RDMO WL.
23
ND BOP and tubing head. 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.
24
TOOH and LD 4 1/2" casing. Change pipe rams to 2 3/8".
25
RIH with 2 3/8" tubing open-ended to 970' (100' inside 4 1/2" stub).
26
RU cementers. Establish circulation with biocide-treated water. Continue circulating to bring bottoms up and remove gas from wellbore. Pump 10 bbl SAPP (Sodium Acid Pyrophosphate) followed by 20 bbl (min.) fresh water spacer immediately preceding
27
Pump balanced Stub Plug from 970' to 426': 140 sx Type III w/0 .25#/sk Polyflake + 0.5% CaCl2 + 0.3% CFL-3 + 0.3% CFR-2 mixed at 14.8 ppg and 1.33 cf/sx (186 cuft of slurry). Cement volume based on 100' in 4 1/2" csg, 200' in 8 5/8" csg, and 244' in 9" OH + 20% excess. Caliper log on file.
28
TOOH. WOC per cementing company recommendation. Tag Cement. TOC should be at or above 526'. If not, consult Evans Engineering.
29
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.
30
Instruct cementing and wireline contract

SEE ATTACHMENTS FOR REMAINING PROCEDURE

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

Signed: _____ Print Name: Adrielle Stanley

Title: Regulatory Specialist Date: 7/29/2015 Email: adrielle.stanley@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: SUTPHIN, DIRK Date: 12/14/2015

CONDITIONS OF APPROVAL, IF ANY: Expiration Date: 6/13/2016

COA Type	Description
	1) Provide 48 hour notice of MIRU via electronic Form 42. 2) 140 sk at 970'-526': Set cement plug from 50' below stub to 50' above stub. Tag 50' above surface casing shoe. 3) 25 sks at surface: Cement from 50' to surface in casing and annulus. 4) Properly abandon flowlines as per Rule 1103. File Form 42 when abandonment complete. 5) Abandoned well marker shall be inscribed with the well's legal location, well name and number, and API Number, as per Rule 319.a.(5).

Attachment Check List

Att Doc Num	Name
400876671	FORM 6 INTENT SUBMITTED
400876674	WELLBORE DIAGRAM
400876675	PROPOSED PLUGGING PROCEDURE

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date
Agency	Moved 25 sk plug proposed at 5000' to 4920' (50' below DV tool at 4872').	12/14/2015 12:33:56 PM
Public Room	Document verification complete 10/1/15	10/1/2015 11:17:54 AM
Permit	Well Completion Report dated 8/9/1993 & 4/24/2002	7/31/2015 4:12:32 PM

Total: 3 comment(s)