

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

Document Number:

400663212

Date Received:

08/13/2014

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,

Name: Johnson, Randell

Tel: (303) 815-9641

COGCC contact:

Email: randell.johnson@state.co.us

API Number 05-123-07653-00

Well Name: EAST RINN

Well Number: 1

Location: QtrQtr: SWSE Section: 15 Township: 2N Range: 68W 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: 40.133250

Longitude: -104.986920

GPS Data:

Date of Measurement: 04/26/2006

PDOP Reading: 5.9

GPS Instrument Operator's Name: HORSESHEO

Reason for Abandonment: ☐ Dry☒ Production for Sub-economic☐ Mechanical Problems☐ OtherCasing to be pulled: ☒ Yes☐ No

Estimated Depth: 950

Fish in Hole: ☐ Yes☒ No

If yes, explain details below

Wellbore has Uncemented Casing leaks: ☐ Yes☒ No

If yes, explain details below

Details: SQZ 200 sx over Codell with holes at 7480'. TOC at 6994'. 10/31/1990

Current and Previously Abandoned Zones

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth
CODELL	7471	7498			
DAKOTA	8020	8145	10/10/2005	BRIDGE PLUG	7701
J SAND	7896	7936	10/10/2005	BRIDGE PLUG	7701

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	526	350	536	0	VISU
1ST	7+7/8	4+1/2	11.6	8,020	225	8,020	6,994	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 8000 with 2 sacks cmt on top. CIBP #2: Depth 7820 with 2 sacks cmt on top.
CIBP #3: Depth 7410 with 2 sacks cmt on top. CIBP #4: Depth 80 with 25 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 6980 ft. with 110 sacks. Leave at least 100 ft. in casing 6780 CICR Depth

Perforate and squeeze at 5000 ft. with 790 sacks. Leave at least 100 ft. in casing 4060 CICR Depth

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

(Cast Iron Cement Retainer Depth)

Set 440 sacks half in. half out surface casing from 1050 ft. to 336 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:

Perforate and squeeze at 6980 / 6750 ft. with 110 sacks Leave at least 100 ft. in casing 6780 CICR Depth
 Perforate and squeeze at 5000 / 4030 ft. with 790 sacks Leave at least 100 ft. in casing 4060 CICR Depth
 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 foreman or lead operator at least 24 hr prior to rig move. Request they catch and remove the plunger, isolate production equipment and remove any automation prior to rig showing up. Install perimeter fence as needed.
 2 MIRU Slickline. Pull bumper spring and drift and tag to sand covered RBP @ 7701'.
 3 MIRU Wireline. Run gyro from 7436' to surface.
 4 Prepare location for base beam equipped rig.
 5 MIRU workover rig. Spot trailer with at least 17 jts of 2-3/8" tbgs. Circulate well with water w/ biocide to kill the well. ND wellhead. NU BOPs. Unseat landing jt.
 6 POOH 2-3/8" tbgs and stand back.
 7 RIH 2-3/8" tbgs and latch for 4-1/2" RBP. RIH to RBP w/ sand cap at 7701'. Circulate sand to surface. Latch on and retrieve RBP'. POOH and LD RBP.
 8 PU csg scraper for 4-1/2" 11.6# and RIH to 8020'. POOH and LD scraper. (Note: 4-1/2" csg set at 8020' and well was deepened to Dakota to 8145')
 9 MIRU Wireline. RIH with 4-1/2" CIBP to 8000' +/- 10'. Dump bail 2 sks cmt on top.
 10 RIH with 4-1/2" CIBP to 7820' +/- 10'. Dump bail 2 sks cmt on top.
 11 RIH with 4-1/2" CIBP to 7410'. PT csg to 1000 psi for 15 minutes. Dump bail 2 sks cmt on top.
 12 RIH with 2- 1' 3-1/8" perf guns with 3 spf, 0.5" dia 120 phasing. Shoot 1' of squeeze holes at 6980' and 6750'. RDMO WL.
 13 Notify Cementers to be on call.
 14 PU CICR and RIH on 2-3/8" tbgs while hydrotesting to 3000 psi. Set at 6780'.
 15 "RU Cementers. Establish injection and pump Niobrara suicide squeeze: 188 cu-ft (110 sks) 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 yield with 20% excess and 10" hole size. Underdisplace by 3 bbls and sting out of CICR leaving 17 cu-ft (10 sks) on top of the CICR. Need to leave at least 100' above squeeze perfs.
 16 PUH to leave end of 2-3/8" tbgs at 5000' while circulating hole clean.
 17 MIRU Wireline. RIH with 2- 1' 3-1/8" perf guns with 3 spf, 0.5" dia 120 phasing. Shoot 1' of squeeze holes at 5000' and 4030'. RDMO WL.
 18 RU Cementers. Establish circulation through perfs and Pump Sussex Suicide plug: 908 cu-ft (790 sks) "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 proceeded with sodium metasilicate mixed in 20 bbls freshwater per cementing company recommendation. Underdisplace by 3 bbls and sting out of CICR leaving at least 100' of cement over SQZ perfs in casing.
 19 PUH to 3700' and circulate hole clean.
 20 POOH, standing back 1050' and laying down the rest.
 21 ND BOP and wellhead. Install a 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.
 22 MIRU Wireline. Cut off 4-1/2" csg at 950' per CCL. RDMO WL. Circulate bottoms up using water and biocide to remove any gas from wellbore.
 23 POOH and LD 4-1/2" csg. Remove the 4-1/2" pipe rams and Install 2-3/8" pipe rams.
 24 RIH w/ 2-3/8" tbgs open ended 100' past the 4-1/2" csg stub to 1050'.
 25 MIRU Cementers. Pump Fox Hills Balanced plug: Pump mud flush of 10 bbls SAPP followed by 20 bbls fresh water ahead of 585 cu-ft (440 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 12.5" hole with 40% excess covering 1050' to shoe of surface casing at 536' plus capacity of surface casing to 300'.
 26 PUH to 200' and circulate excess cement of hole. TOH and WOC per cement company recommendation.
 27 RIH w/ 2-3/8" tbgs and tag top of plug. Plug needs to be tagged at 336' or shallower. POOH and LD 2-3/8" tbgs.
 28 RU wireline. RIH and set CIBP.

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: 8/13/2014 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: 8/22/2014

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 2/21/2015

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 1050' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 476' 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. 6) Please submit existing CBL with Form 6 (s) Subsequent Report of Abandonment.
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Attachment Check List

Att Doc Num**Name**

400663212	FORM 6 INTENT SUBMITTED
400663216	PROPOSED PLUGGING PROCEDURE
400663217	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group**Comment****Comment Date**

Engineer	Plugging plan is to pull existing plug @ 7701' and add 2 deeper plugs to isolate Dakota and Jsand.	8/22/2014 10:01:25 AM
Permit	Well Completion Reports dated 3/23/1973 & 11/26/1975.	8/14/2014 11:25:29 AM
Permit	ON HOLD: requesting Well Completion Report.	8/14/2014 9:17:45 AM

Total: 3 comment(s)