

Document Number:
400618329

Date Received:
06/02/2014

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: Carlile, Craig Tel: (303) 8942100

COGCC contact: Email: craig.carlile@state.co.us

API Number 05-123-07947-00

Well Name: HAROLD NELSON UNIT A Well Number: 1

Location: QtrQtr: SENE Section: 31 Township: 3N Range: 67W Meridian: 6

County: WELD Federal, Indian or State Lease Number: 64543

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: 40.185339 Longitude: -104.927772

GPS Data:
Date of Measurement: 06/18/2009 PDOP Reading: 5.2 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: _____

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
J SAND	7694	7709			

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	221	200	215	0	VISU
1ST	7+7/8	4+1/2	11.6	7,812	200	7,815	6,720	CALC
S.C. 1.1				500	250	500	0	CALC

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7600 with 2 sacks cmt on top. CIBP #2: Depth 121 with 10 sacks cmt on top.
CIBP #3: Depth _____ with _____ sacks cmt on top. CIBP #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 4425 ft. to 4294 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:
Set _____ sks cmt from _____ ft. to _____ ft. Plug Type: _____ Plug Tagged:

Perforate and squeeze at 6700 ft. with 50 sacks. Leave at least 100 ft. in casing 6610 CICR Depth

Perforate and squeeze at 4294 ft. with 250 sacks. Leave at least 100 ft. in casing 3920 CICR Depth

Perforate and squeeze at 695 ft. with 100 sacks. Leave at least 100 ft. in casing 625 CICR Depth

(Cast Iron Cement Retainer Depth)

Set 100 sacks half in. half out surface casing from 695 ft. to 121 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:

Perforate and squeeze at 6700' / 6580' ft. with 50 sacks Leave at least 100 ft. in casing 6610' CICR Depth
 Perforate and squeeze at 4294' / 3890' ft. with 250 sacks Leave at least 100 ft. in casing 3920' CICR Depth
 Perforate and squeeze at 695' / 585' ft. with 100 sacks Leave at least 100 ft. in casing 625' CICR Depth
 7 MIRU, kill as necessary using clean fresh water with biocide and circulate. ND WH. NU BOP. Unseat landing jt, LD.
 8 Notify cementers to be on call. Provide volumes listed below:
 8.1 Niobrara Suicide: 50 sx 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 cf/sk (11.2 bbls) (9 1/2" + 20%)
 8.2 Sussex Casing Plug: 25 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 cf/sx (5 bbls) (inside 4 1/2" casing)
 8.3 SX Suicide: 250 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 cf/sx (48.2 bbls) (10 1/2" +20% excess)
 8.4 Surface Suicide: 100 sx Type III CaCl₂ cement w/0.25 pps cello flake mixed at 14.8 ppg and 1.33 cf/sx (17.7 bbls) (70' inside 4 1/2" Prod Casing and 110' in 12 1/4" OH + 20% excess, and 7 bbls on top of CICR)
 9 TOOH 2 3/8" production tubing. Stand Back.
 10 MIRU WL. RIH gauge ring for 4 1/2" 11.6#/ft casing to 7600'.
 11 RIH CIBP w/ WL. Set at 7600'. PU dump bailer, dump bail 2 sx class 'G' cement on CIBP. Do Not PT (note squeeze holes).
 12 PU 2 - 1' 3-1/8" perf guns with 3 spf, 0.5" dia 120° phasing. Shoot 1' of squeeze holes at 6700' and 6580'.
 13 PU CICR. RIH on wireline and set at 6610'. RD WL.
 14 RIH w/ stinger on 2 3/8" tubing while hydrotesting to 3,000 psi.
 15 RU Cementers. Pump Niobrara Suicide: 50 sx 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 cf/sk (11.2 bbls) (9 1/2" + 20%) to place suicide squeeze between perfs. Underdisplace and sting out of CICR to leave 3 bbls on top of retainer.
 16 PUH 6 stands. Circulate 90 bbls water containing biocide to clear tubing. P&LD tbg to 4294'.
 17 RU Cementers. Pump Sussex Casing Plug: 25 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 cf/sx (5 bbls) (inside 4 1/2" casing) to place balanced plug from 4425' to 4294'.
 18 PUH 4 stands. Circulate 60 bbls water containing biocide to clear tubing. TOOH & WOC 4 hrs. Tag Cement. If Cement is below 4294', call production engineer. Otherwise, P&LD tbg to 4294'. SB Remainder.
 19 RUWL & PU 2 - 1' 3-1/8" perf guns with 3 spf, 0.5" dia 120° phasing. Shoot 1' of squeeze holes at 4294' and 3890'.
 20 PU CICR. RIH on wireline and set at 3920'. RD WL.
 21 RIH w/ stinger on 2 3/8" tubing.
 22 RU Cementers. Pump 5 bbl water w/ biocide, 20 bbl Sodium Metasilicate, and another 5 bbl spacer immediately preceding cement.
 23 Pump SX Suicide: 250 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 cf/sx (48.2 bbls) (10 1/2" +20% excess) to place suicide squeeze between perfs. Underdisplace and sting out of CICR to leave 3 bbls on top of retainer.
 24 PUH 5 stands. Circulate 55 bbls water containing biocide to clear tubing. P&LD tbg to 695'. SB remainder.
 25 RUWL & PU 2 - 1' 3-1/8" perf guns with 3 spf, 0.5" dia 120° phasing. Shoot 1' of squeeze holes at 695' and 585'.
 26 PU CICR. RIH on wireline and set at 625'. RD WL.
 27 RIH w/ stinger on 2 3/8" tubing.
 28 RU Cementers. Pump Surface Suicide: 100 sx Type III CaCl₂ cement w/0.25 pps cello flake mixed at 14.8 ppg and 1.33 cf/sx (17.7 bbls) (70' inside 4 1/2" Prod Casing and 110' in 12 1/4" OH + 20% excess, and 7 bbls on top of CICR) to place suicide squeeze between perfs. Pump all but 7 bbls. Sting out of CICR and spot 7 bbls on top of retainer.
 29 TOOH circulating as necessary to clear tubing. WOC 4 hrs. Tag Cement. Cement top needs to be above 121'; Proceed if TOC is above 121'. Otherwise, call production engineer.
 30 MIRU WL. RIH CIBP to 121'.

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: 6/2/2014 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: 6/6/2014

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 12/5/2014

COA Type	Description
	1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU. 2) For 695' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 170' or shallower. 3) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400618329	FORM 6 INTENT SUBMITTED
400618335	PROPOSED PLUGGING PROCEDURE
400618336	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Well Completion Report dated 9/29/1974.	3/5/2014 9:27:43 AM

Total: 1 comment(s)