

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: Montoya, John Tel: (970) 3974124
 Email: john.montoya@state.co.us

COGCC contact:

API Number 05-123-20434-00 Well Name: BOHLING FEDERAL (HSR) Well Number: 10-7A
 Location: QtrQtr: NWSE Section: 7 Township: 2N Range: 66W 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: 40.150860 Longitude: -104.818030
 GPS Data:
 Date of Measurement: 09/07/2006 PDOP Reading: 4.8 GPS Instrument Operator's Name: Steve Fisher
 Reason for Abandonment: Dry Production for Sub-economic Mechanical Problems
 Other _____
 Casing to be pulled: Yes No Estimated Depth: 1210
 Fish in Hole: Yes No If yes, explain details below
 Wellbore has Uncemented Casing leaks: Yes No If yes, explain details below
 Details: Well has a stage tool that leaked durign initial completions and was squeezed with 50 sx.

Current and Previously Abandoned Zones

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth
J SAND	7813	7844			
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	822	575	832	0	VISU
1ST	7+7/8	4+1/2	11.6	7,939	260	7,951	6,510	CBL
			Stage Tool	4,928	270	4,932	3,870	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7720 with 70 sacks cmt on top. CIBP #2: Depth 80 with 25 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 70 sks cmt from 5050 ft. to 4150 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 _____ 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 230 sacks half in. half out surface casing from 1310 ft. to 622 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:

- 3 Check and record Bradenhead pressure. If Bradenhead valve is not accessible, re-plumb so that valve is above GL.
- 4 MIRU Slickline Services. Drift and tag to TD. Run SBHPS (Static Bottom Hole Pressure Survey) through the end of tubing (2-3/8" tbg landed at 7782') to mid perf at 7828', making a stop at mid-perf then PUH making gradient stops every 1000'. RDMO Slickline. Send results to Sabrina.Frantz@Anadarko.com and make a report in Openwells noting mid-perf pressure, and all subsequent pressures and fluid level.
- 5 MIRU, kill as necessary using clean fresh water with biocide. ND WH. NU BOP. Unseat landing jt, LD. Note: The well failed a tubing PT in 2011 to 1000 psi. Plan on having to replace with yellow banded 2-3/8" tubing prior to setting the first plug.
- 6 Hydrotest out of the hole to 3000 psi and stand back good 2-3/8" tbg. Lay down bad tubing. Spot trailer with yellow-banded 2-3/8" tbg to have a total of ~7720' available.
- 7 MIRU WL. RIH w/ gauge ring for 4.5" 11.6# csg to 7800'.
- 8 RIH and Set 4.5" CIBP at 7720'. PT csg and CIBP to 1000 psi for 15 minutes. RDMO WL.
- 9 Notify Cementers to be on call.
- 10 RIH 2-3/8" tbg to CIBP at 7720'. Tag CIBP and pick up 5'.
- 11 RU Cementers. Pump Niobrara plug consisting of 97 cu-ft (70 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. Calculated top in the 4-1/2" csg is 6700'.
- 12 PUH to 6400' and circulate hole clean. PUH to 5050' laying down tbg.
- 13 Pump Sussex Balanced plug: 80 cu-ft (70 sks) "G" w/ 0.4% CD-32, 0.4% ASA-301 with CaCl2 as necessary. Mixed at 15.8 ppg, 1.15 cuft/sack. Calculated top of plug at 4150' based in the 4-1/2" csg covering the Stage Tool at 4935 and sqz holes at 4938'. PUH to ~3800' and circulate hole clean. WOC per cement company recommendation. RD Cementers.
- 14 RIH and tag top of plug at 4150'. POOH, standing back 42 jts and laying down the rest.
- 15 MIRU Wireline. Cut off 4-1/2" csg at 1210'. RDMO WL. Circulate using water and biocide to remove all gas from wellbore.
- 16 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.
- 17 POOH and LD 4-1/2" csg. Remove the 4-1/2" pipe rams and Install 2-3/8" pipe rams.
- 18 RIH w/ 2-3/8" WS open ended 100' past the 4-1/2" csg stub to 1310'.
- 19 MIRU Cementers. Pump Fox Hills Balanced plug: Pump mud flush of 10 bbls SAPP followed by 20 bbls water ahead of 306 cu-ft (230 sx) Type III w/cello flake and CaCl2 as deemed necessary, mixed at 1.33 cf per sack, 14.8 ppg. POH and WOC per cementing company recommendation. Plug size is based on 8.5" hole with 40% excess covering 1310' to shoe of surface casing at 822' plus capacity of surface casing to 620'. PUH to 150' and Circulate out any excess cmt. TOH and WOC per cement company recommendation.
- 20 RIH and tag top of plug. Plug needs to be tagged at 622' or shallower. POOH and LD 2-3/8" tbg.
- 21 RU wireline. Run and set CIBP in the 8-5/8", 24# surface casing at 80'. PT CIBP and surface casing to 1000 psi for 15 minutes. Assuming successful test, RD wireline. RDMO workover rig.
- 22 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.
- 23 Supervisor submit paper copies of all invoices, logs, and reports to Joleen Kramer.
- 24 Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.
- 25 Excavate hole around surface casing enough to allow welder to cut casing minimum 5' below ground level.
- 26 Welder cut casing minimum 5' below ground level.
- 27 Fill casing to surface using 4500 psi compressive strength cement, (NO gravel).
- 28 Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number.
- 29 Properly abandon flowlines per Rule 1103. File electronic Form 42.

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: 9/30/2014 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: 10/22/2014

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 4/21/2015

<u>COA Type</u>	<u>Description</u>
	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 1310' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 772' 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.

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400698908	FORM 6 INTENT SUBMITTED
400698912	PROPOSED PLUGGING PROCEDURE
400698913	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Well Completion Report dated 1/14/2000.	10/16/2014 10:09:43 AM

Total: 1 comment(s)