

Document Number:
400713737

Date Received:
10/21/2014

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: (970) 629-8279

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

API Number 05-123-15851-00

Well Name: BELL Well Number: L12-21

Location: QtrQtr: C Section: 12 Township: 3N 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: 40.239910 Longitude: -104.725550

GPS Data:
Date of Measurement: 06/21/2006 PDOP Reading: 2.0 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: 1360

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	7372	7425			

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	560	300	560	0	CALC
1ST	7+7/8	2+7/8	6.5/7.9	7,514	225	7,514	6,900	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7300 with 1 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 _____ 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 6885 ft. with 110 sacks. Leave at least 100 ft. in casing _____ CICR Depth

Perforate and squeeze at 4500 ft. with 260 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 480 sacks half in. half out surface casing from 1360 ft. to 360 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:

5 MIRU WO rig. Kill well as necessary with water and biocide. ND wellhead. NU BOP.
 6 Unland 1.66" tbg (222 total joints landed at 7377') and TOO H standing back 7300' of 1.66" tubing.
 7 MIRU wireline. RIH with junk basket/gauge ring (2-7/8" 6.5#/7.9#) to 7350'. POOH. PU and RIH with CIBP (2-7/8", 6.5#/7.9#) to set at 7300' (collars at 7284' and 7316'). Dump bail 1 sx of Neat G cement on top of CIBP to abandon Codell perms. POOH.
 8 Run gyro survey inside 2-7/8" production casing from 7275' (~100' above top Codell perms) to surface with stops every 100'. Forward gyro survey data and invoices to Sabrina Frantz. RDMO wireline.
 9 PU & TIH with 1.66" tubing to tag cement capped CIBP set at 7300'. PUH just above CIBP and circulate all gas out of the hole. Pumping water with biocide, pressure test the CIBP and production casing to 2500psi for 15 minutes. If pressure test passes, proceed to next step; otherwise contact engineering for revised procedure steps to hydrotest 2-7/8" casing back in hole to spot stub plug prior to step 20.
 10 MIRU wireline. RIH with 1-11/16" perf guns and shoot squeeze holes at 6885' using 6 SPF, 0.37" EHD, 1' net, 6 total shots. POOH with perf guns. RDMO wireline.
 11 Connect to the 2-7/8" casing and establish an injection rate of at least 1 bbl/min with an injection pressure less than 3000psi. If injection rate at least 1 bbl/min and injection pressure less than 3000 psi proceed to next step, otherwise contact engineering.
 12 MIRU cementing services on the 2-7/8" production casing. Establish injection rate with water and pump 110 sx Class "G" cement with 20% silica flour, 0.4% CD-32 and 0.4% ASA-301 mixed at 15.8ppg and 1.38 cuft/sx (cement volumes based on 10" hole with 20% excess from 6885' to 6650' and 2-7/8" 6.5# casing capacity from 6885' to 6650' with no excess). Drop wiper plug and displace cement to 6650' using approx. 38 bbls water. RDMO cementing services. WOC to set up per cementing company recommendation.
 13 MIRU wireline. RIH with sinker bars to tag cement plug @ +/- 6650'. If cement is not above 6650' contact engineer, otherwise proceed to next step.
 14 PU and RIH with 1-11/16" perf guns and shoot squeeze holes at 4500' using 6 SPF, 0.37" EHD, 1' net, 6 total shots. POOH with perf guns. RDMO wireline.
 15 Establish circulation through squeeze holes to surface with water. If circulation is established, proceed to next step; otherwise contact engineering for revised procedure steps.
 16 MIRU cementing services on the 2-7/8" production casing. Establish circulation with water and pump 20 bbls sodium metasilicate followed by 260 sx Class "G" cement with 0.25 pps cello flake, 0.4% CD-32 and 0.4% ASA-301 mixed at 15.8ppg and 1.15 cuft/sx (cement volumes based on 10" caliper plus 40% excess from 4500' to 4100' and 2-7/8" 6.5# casing capacity from 4500' to 4100'). Drop wiper plug and displace to 4100' using 23 bbls water. RDMO cementing services. WOC to set up per cementing company recommendation.
 17 MIRU wireline. RIH with sinker bars to tag cement plug @ +/- 4100'. If cement is not above 4100' contact engineer, otherwise proceed to next step.
 18 RIH and jet cut 2-7/8" production casing at 1360'. RDMO wireline. Circulate bottoms up and continue circulating to remove any gas from wellbore.
 19 ND BOP. Install BOP on surface casing head with 2-7/8" pipe rams. Install 3000 psi ball valves on both casing head outlets. Install a choke or choke manifold on one outlet.
 20 MIRU cementing services. Establish circulation through 2-7/8" casing with water and pump 10 bbls SAPP mud flush, 20 bbls fresh water spacer, then balanced stub plug using 480 sx Type III cement with cello flake and CaCl₂ as necessary, mixed at 14.8 ppg and 1.33 cuft/sx (cement volumes based on 800' in 10" hole with 40% excess, and 200' in 8-5/8" surface casing). RDMO cementing services.
 21 TOO H and LD 2-7/8" casing until end of casing is at +/- 200'. Circulate down 2-7/8" production casing and up surface casing/production casing annulus until r

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: 10/21/2014 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: 11/19/2014

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 5/18/2015

COA Type	Description

Attachment Check List

Att Doc Num	Name
400713737	FORM 6 INTENT SUBMITTED
400713738	PROPOSED PLUGGING PROCEDURE
400713739	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineer	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 1360' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 510' 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.	11/19/2014 9:07:57 AM
Permit	Well Completion Report dated 10/07/1992.	10/29/2014 2:11:55 PM

Total: 2 comment(s)