

Document Number:
400795074

Date Received:
02/18/2015

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: 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: Peterson, Tom Tel: (303) 815-9641

COGCC contact: Email: tom.peterson@state.co.us

API Number 05-123-23496-00 Well Number: 15-14

Well Name: BARCLAY

Location: QtrQtr: SWSE Section: 14 Township: 2N 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: 40.132430 Longitude: -104.856030

GPS Data:
Date of Measurement: 07/14/2006 PDOP Reading: 2.1 GPS Instrument Operator's Name: CHRIS FISHER

Reason for Abandonment: Dry Production for Sub-economic Mechanical Problems
 Other _____

Casing to be pulled: Yes No Estimated Depth: 1240

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 | 7504 | 7520 | 11/19/2014 | B PLUG CEMENT TOP | 7170 |
| NIOBRARA | 7234 | 7378 | 11/19/2014 | B PLUG CEMENT TOP | 7170 |

Total: 2 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 | 964 | 388 | 964 | 0 | VISU |
| 1ST | 7+7/8 | 4+1/2 | 11.6 | 7,666 | 435 | 7,666 | 3,628 | CBL |

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 80 with 25 sacks cmt on top. CIBP #2: Depth _____ with _____ 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 35 sks cmt from 4620 ft. to 4210 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 200 sacks half in. half out surface casing from 1340 ft. to 860 ft. Plug Tagged:

Set _____ 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 Gyro run 3/3/14.
- 2 Provide 48 hr notice to COGCC prior to rig up per request on approved Form 6.
- 3 MIRU SL. Tag top of cement from prep to P&A at +/- 6770' (tag needs to be above 6830'). Enter tag depth in OpenWells. RDMO SL.
- 4 Prepare location for base beam rig.
- 5 Check and record Bradenhead pressure. If Bradenhead valve is not accessible, re-plumb so that valve is above GL. Contact engineer if Bradenhead pressure is greater than 0 psi.
- 6 Spot 156 jts of 2-3/8" 4.7# J-55 8RD EUE tbg.
- 7 MIRU WO rig. Kill well with fresh water and biocide. ND WH, NU BOP.
- 8 Notify cementers of the needed volumes: 35 sx class G with 0.4% CD-32, 0.4% ASA-301 mixed at 15.8 ppg and 1.15 cf/sk (Sussex balanced plug); 200 sx Type III cement with ¼ pps cello flake and CaCl2 mixed at 14.8 ppg and 1.33 cf/sk (FHM stub plug).
- 9 TIH with 2-3/8" tbg to 4620' and circulate water with biocide to clean hole.
- 10 MIRU cement company. Spot 35 sx of class G with 0.4% CD-32, 0.4% ASA-301 mixed at 15.8 ppg and 1.15 cf/sk (cement from 4620' to 4210' inside 4-1/2" csg).
- 11 PUH to 4000' and circulate thoroughly with fresh water and biocide to clear tbg. WOC 4 hrs.
- 12 Drop down, tag plug with tbg. Tag needs to be 4210' or higher.
- 13 TOOH. Stand back 1340' of 2-3/8" tbg and LD remainder.
- 14 MIRU WL. PU jet cutter and RIH to 1240', cut 4-1/2" csg. Reverse circulate to remove any gas from wellbore. RDMO WL.
- 15 ND BOP, ND tbg head. NU BOP on surface csg with 4-1/2" pipe rams. Install 3000 psi ball valves on csg head outlets. Install choke or choke manifold on one outlet.
- 16 TOOH with 4-1/2" csg and LD.
- 17 Uninstall 4-1/2" pipe rams on BOP and install 2-3/8" pipe rams.
- 18 TIH with 2-3/8" tbg to +/- 1340', 100' inside 4-1/2" csg stub.
- 19 MIRU cement company. Pump 10 bbls SAPP, 20 bbls fresh water and biocide followed with 200 sx of Type III cement with ¼ pps cello flake and CaCl2 mixed at 14.8 ppg and 1.33 cf/sk (cement from 1340' to 760' over Fox Hills, assume 8" hole from closest caliper, 40% excess).
- 20 TOOH with 2-3/8" tbg. WOC 4 hrs, tag plug. Tag needs to be 860' or higher. TOOH.
- 21 MIRU WL. RIH with 8-5/8" CIBP and set at 80'. Pressure test to 1000 psi for 15 min. If pressure holds, RDMO WL and RDMO WO rig.
- 22 Instruct cementing and wireline contractors to e-mail copies of all job logs/job summaries and invoices to rscDJVendors@anadarko.com within 24 hrs of the completion of the job.
- 23 Supervisor submit paper copies of all invoices, logs, and reports to Evans Engineering Specialist.
- 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 8-5/8" casing minimum 5' below ground level.
- 26 Welder cut 8-5/8" casing minimum 5' below ground level.
- 27 MIRU Redi Cement mixer. Use 4500 psi compressive strength cement, (NO gravel) to fill stubout.
- 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.
- 30 Obtain GPS location data as per COGCC Rule 215 and send to rscDJVendors@anadarko.com.
- 31 Back fill hole with fill. Clean location, level.
- 32 Submit Form 6 to COGCC ensuring to provide 'As performed' WBD identifying operations completed.

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: 2/18/2015 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: 3/5/2015

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 9/4/2015

| COA Type | Description |
|-----------------|---|
| | <ol style="list-style-type: none"> 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 1340' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 914' or shallower. 4) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete. 5) Please submit existing gyro survey data with Form 6 (s) Subsequent Report of Abandonment. 6) Please submit contractor reports verifying CIBP w/ cement @ 7170' with Form 6 (s) Subsequent Report of Abandonment. |

Attachment Check List

| <u>Att Doc Num</u> | <u>Name</u> |
|--------------------|-----------------------------|
| 400795074 | FORM 6 INTENT SUBMITTED |
| 400795081 | PROPOSED PLUGGING PROCEDURE |
| 400795083 | WELLBORE DIAGRAM |

Total Attach: 3 Files

General Comments

| <u>User Group</u> | <u>Comment</u> | <u>Comment Date</u> |
|-------------------|--|--------------------------|
| Permit | Per operator "The Form 6 perf depths are incorrect, but the abandonment date, isolation method, and plug depth are correct. The correct perms are listed below." Niobrara: 7234'-7378' Codell: 7504'-7520' | 2/24/2015 11:51:19 AM |
| Permit | ON HOLD: NB-CD perms don't match Completion report of Wellbore diagram. | 2/20/2015 10:29:11 AM |
| Permit | Well Completion Report dated 7/21/2006. | 2/20/2015 10:29:07 AM |

Total: 3 comment(s)