

FORM
6Rev
12/05State 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:

400653281

Date Received:

07/30/2014

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 05-123-17062-00

Well Name: STATE

Well Number: 16-11L

Location: QtrQtr: NESW Section: 16 Township: 3N 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: 40.224020

Longitude: -104.897720

GPS Data:

Date of Measurement: 03/27/2007

PDOP Reading: 3.5

GPS Instrument Operator's Name: Steve Fisher

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

Estimated Depth: 880

Fish in Hole: ☐ Yes☒ No

If yes, explain details below

Wellbore has Uncemented Casing leaks: ☐ Yes☒ No

If yes, explain details below

Details: This well was deepened to the J sand/Dakota w/2 7/8" liner in 1999. Dakota was abandoned in 2000 with CIBP.

Current and Previously Abandoned Zones

| Formation | Perf. Top | Perf. Btm | Abandoned Date | Method of Isolation | Plug Depth |
|-----------|-----------|-----------|----------------|---------------------|------------|
| CODELL | 7066 | 7076 | | | |
| J SAND | 7496 | 7520 | | | |
| NIOBRARA | 6813 | 6862 | | | |
| DAKOTA | 7695 | 7700 | 01/12/2000 | B PLUG CEMENT TOP | 7630 |

Total: 4 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 | 23 | 497 | 420 | 422 | 0 | VISU |
| 1ST | 7+7/8 | 4+1/2 | 11.6 | 7,160 | 193 | 7,160 | 6,296 | CBL |
| S.C. 1.1 | | | | 7,160 | 634 | 5,076 | 3,890 | CBL |
| 1ST LINER | 3+7/8 | 2+7/8 | 6.5 | 7,766 | 35 | 7,766 | 7,124 | CBL |
| OPEN HOLE | | | | 7,784 | | | | |

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7115 with 2 sacks cmt on top. CIPB #2: Depth 6730 with 25 sacks cmt on top.

CIBP #3: Depth _____ with _____ sacks cmt on top. CIPB #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 6730 ft. to 6335 ft. Plug Type: CASING Plug Tagged: ☐

Set 30 sks cmt from 4300 ft. to 3900 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: ☐

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 380 sacks half in. half out surface casing from 980 ft. to 297 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:

PLUG AND ABANDONMENT PROCEDURE

STATE 16-11L

Step Description of Work

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 IOC (970-506-5980) at least 24 hr prior to rig move. Request they catch and remove plunger, isolate production equipment and remove any automation prior to rig MIRU.

2 MIRU slickline services. Pull bumper spring and tag bottom. Run a Gyro directional survey from EOT @ 7110' KB to surface with 100' stations. Forward results to Sabrina Frantz in Evans. RDMO slickline services.

3 Prepare location for base beam equipped rig. Install perimeter fence as needed.

4 MIRU, kill well as necessary using clean fresh water with biocide. ND WH. NU BOP. Unseat landing jt, LD.

5 TOO H and stand back 2 3/8" production tubing (225 jts landed @ 7110'). .

6 PU scraper for 4 1/2" 11.6# casng. TIH on 2 3/8" tbg to 7120' (2 7/8" X 4 1/2" Liner Hanger @ 7124'). TOH, standing back ~ 6730' of tbg. LD scraper.

7 MIRU WL. . RIH CIBP w/ WL. Set at 7115'. PU dump bailer and spot 2 sx cement on CIBP.

RIH CIBP and set at 6730'. PT Casing to 1000 psi for 15 minutes. RDWL.

TIH w 2 3/8" tbg open-ended to CIBP at 6730'. Hydro-test tbg to 3000 psi.

9 RU cementers and equalize a balanced plug above CIBP from 6730' to 6335' as follows: 25 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. (35 cuft of slurry).

10 POH 10 stands and circulate tbg clean using fresh water treated with biocide. POH and LD WS to bring EOT to 4300'..

11 RU cementers and equalize a balanced plug from 4300' to 3900' as follows: 30 sx class "G", w/0.4% CD-32, 0.4% ASA-301 mixed at 15.8 ppg and 1.15 cuft/sk (35 cuft of slurry).

15 POH 10 stands. Circulate water containing biocide to clear tubing. POH standing back ~980' of tbg.

16 ND BOP and wellhead. Install 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 RU WL. Crack coupling or cut casing at 880'. RDMO WL. Circulate bottoms up and continue circulating to remove any gas from wellbore.

18 TOO H and LD 880' of 4 1/2" casing.

19 RIH with 2 3/8" tubing open-ended to 980' (100' inside 4 1/2" stub).

20 RU Cementers. Pump balanced Stub Plug: 380 sx Type III w/0 .25#/sk cello flake and CaCl₂ as deemed necessary mixed at 14.8 ppg and 1.33 cf/sx (505 cuft of slurry). Cement volume based on 100' in 4 1/2" csg, 200' in 8 5/8" csg, and 383' in 12" OH + 40% excess.

21 TOO H. WOC per cementing company recommendation. Tag Cement. TOC should be at or above 397'. If not, consult Evans Engineering.

22 MIRU WL. RIH 8 5/8" CIBP to 80'. Set and PT to 1000 psi for 15 min. If tests, RDMO WL and WO rig.

23 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.

24 Supervisor submit paper copies of all invoices, logs, and reports to Joleen Kramer.

25 Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.

26 Excavate hole around surface casing enough to allow welder to cut 8 5/8" casing minimum 5' below ground level.

27 Welder cut 8 5/8" casing minimum 5' below ground level.

28 Fill casing to surface using 4500 psi compressive strength cement, (NO gravel).

29 Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number.

30 Obtain GPS location data as per COGCC Rule 215 and send to rscDJVendors@anadarko.com.

31 Properly abandon flowlines per Rule 1103. File electronic Form 42 once abandonment complete.

32 Back fill hole with fill. Clean location, level.

33 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: 7/30/2014 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: 8/7/2014

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 2/6/2015

COA Type**Description**

| | |
|--|--|
| | |
|--|--|

Attachment Check List

| <u>Att Doc Num</u> | <u>Name</u> |
|--------------------|-----------------------------|
| 400653281 | FORM 6 INTENT SUBMITTED |
| 400653288 | PROPOSED PLUGGING PROCEDURE |
| 400653289 | 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 980' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 447' 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 available records confirming setting of bridge plug/cement top @ 7630' 1/12/2000 with Form 6 (s) Subsequent Report of Abandonment. 7) Please submit available records on deepened TD of 7784' on 12/08/99 with Form 6 (s) Subsequent Report of Abandonment. | 8/6/2014 11:14:43 AM |
| Permit | Well Completion Reports dated 11/16/1993 & 4/17/2000. | 3/6/2014 9:31:45 AM |

Total: 2 comment(s)