

FORM
6Rev
12/05

State 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:

400710698

Date Received:

10/17/2014

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 05-123-15862-00

Well Name: WARDELL

Well Number: H 19-11

Location: QtrQtr: NESW Section: 19 Township: 3N Range: 65W 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: 40.209090

Longitude: -104.708580

GPS Data:

Date of Measurement: 07/18/2006

PDOP Reading: 4.9

GPS Instrument Operator's Name: Paul Tappy

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

Estimated Depth: 1400

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	7361	7372			

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	650	450	650	0	CALC
1ST	7+7/8	2+7/8	6.5	7,528	275	7,528	6,530	CBL
S.C. 1.1				4,870	267	4,870	3,903	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7290 with 20 sacks cmt on top. CIPB #2: Depth 80 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 7290 ft. to 6230 ft. Plug Type: CASING Plug Tagged: ☐
Set 25 sks cmt from 4740 ft. to 3840 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 460 sacks half in. half out surface casing from 1400 ft. to 450 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 w/ water containing biocide. ND WH, NU BOP.
 6. Unseat and LD landing joint. PU w/ 1.66 OD tbg (2.33#, J-55) to break any sand bridges. Do not exceed the safety tensile load of 29,416 lbs (80% of upset yield strength).
 7. TOO and SB 1.66" OD tbg (223 jts landed at 7,342').
 8. MIRU Wireline. PU gauge ring for 2-7/8" csg (2.33#). RIH to +/- 7,310'. POOH and LD.
 9. PU CIBP for 2-7/8" (2.33#, J-55) csg on wireline and RIH to 7,290'. Set CIBP in the csg at 7,290'. POOH and LD the setting tool. Pressure test to 2,500 psi for 15 min. NOTE: if pressure test fails, be prepared to TOO w/ 2-7/8" csg and hydrotest back in for step 19.
 10. MIRU VES. PU Gyro and RIH from +/- 7,290' to surface with measurements every 100'. POOH and LD Gyro. RDMO VES & Wireline.
 11. TIH 1.66" OD tbg and tag CIBP at +/- 7,290' while hydrotesting each joint to +/- 3000 psi and tag CIBP. Pick up 5' from tag.
 12. MIRU Cementing Services. Spot 25 sx (+/- 34 cuft) of cmt (Class 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 from 7,290' to 6,230'.
 13. PUH w/ 1.66" OD tbg to +/- 6,000' and circulate tbg clean. PUH to 4,740'.
 14. MIRU Cementing Services. Spot 25 sx (+/- 29 cuft) of cmt (Class G w/ 0.25 pps cello flake, 0.4% CD-32, 0.4% ASA-301) mixed at 15.8 ppg and 1.15 cuft/sk. Planned cement is from 4,740' to 3,840' in 2-7/8", 6.5# csg. RDMO Cementing Services.
 15. PUH to +/- 3,500' and circulate hole clean. WOC for 4 hrs.
 16. TIH w/ 1.66" OD tbg and tag TOC at +/- 3,840'. If tag is deeper than 4,339', contact the engineer for possible further cement work. POOH and LD 1.66" OD tbg.
 17. MIRU Wireline. PU a jet cutter and RIH to 1,400' and cut the 2-7/8" csg. Cut csg and circulate bottoms up. Continue to circulate to remove any gas in the wellbore. RDMO Wireline.
 18. ND BOP and tbg head. NU BOP on the surface csg with 2-7/8" pipe rams. Install 3,000 psi ball valves on the csg head outlets. Install a choke or a choke manifold on one outlet.
 19. Unland and PU 2-7/8" csg 5'. NOTE: if pressure test in step 9 fails, TOO w/ 2-7/8" and TIH while hydrotesting.
 20. MIRU Cementing Services. Pump 10 bbls of SAPP (Sodium Acid Pyrophosphate) followed by 20 bbls of fresh water containing biocide prior to pumping cement through the 2-7/8" csg. Spot 460 sx (+/- 612 cuft) of cmt (Type III w/ cello flake and CaCl2 as deemed necessary) mixed at 14.8 ppg at 1.33 cuft/sk. Planned cement is from 1,400' to 650' in 9" OH (from closest caliper, plus 40% excess), and from 650' to 450' inside 8-5/8", 24# surface csg. PUH to 150' and circulate csg clean, POOH and SB csg. RDMO Cementing Services. WOC for 4 hrs.
 21. Tag TOC w/ 2-7/8" csg and if TOC is deeper than 450' contact engineer for possible further cement work. TOO and LD 2-7/8" csg.
 22. MIRU wireline. PU CIBP on wireline for 8-5/8" (24#) csg and TIH to +/- 80'. Set CIBP and test to 1000 psi for 15 min. POOH and LD wireline. RDMO wireline.
 23. RDMO WO rig.
 24. NOTE: Instruct cementing & wireline contractors to email copies of all job logs/job summaries & invoices to rscDJVendors@anadarko.com within 24 hours of the completion of the job.
 25. Wellsite supervisor should turn all paper copies of cementing reports/invoices and logs into Joleen Kramer.
 26. Have excavation contractor notify One-Call to clear for digging around wellhead and flowline removal.
 27. Excavate hole around surface casing enough to allow welder to cut 8-5/8" casing minimum 5' below ground level.
 28. Welder cut 8-5/8" casing minimum 5' below ground level.
 29. MIRU ready cement mixer. Fill the last 80' inside the 8-5/8" prod. casing until 10' below surface. Use 4,500 psi compressive strength redi-mix cement (Sand and Cement only, no gravel) to finish filling surface casing to top of cut off.
 30. Have welder spot weld on steel marker plate. (Note: marker shall be labeled with well name and number, legal location (¼ ¼ descript

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: 10/17/2014 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: 11/17/2014

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 5/16/2015

COA Type	Description
	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 1400' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 600' 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

Att Doc Num**Name**

400710698	FORM 6 INTENT SUBMITTED
400710704	PROPOSED PLUGGING PROCEDURE
400710705	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group**Comment****Comment Date**

Permit	Well Completion Report dated 1/21/1993. Requested corrected production reports and 5A to clean up NB formation.	10/29/2014 11:15:30 AM
--------	---	---------------------------

Total: 1 comment(s)