FORM 6 Rev 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: 400533234

Date Received: 12/30/2013

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, COGCC contact: Name: MONTOYA, JOHN Tel: (970) 3974124 Email: john.montoya@state.co.us

API Number 05-123-21425-00

Well Name: WHITTEMORE Well Number: 7-28A

Location: QtrQtr: SWNE Section: 28 Township: 2N 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: 40.110850 Longitude: -104.666290

GPS Data:

Date of Measurement: 08/25/2007 PDOP Reading: 2.8 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: 1540

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
J SAND	7673	7713			

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	915	595	915	0	VISU
1ST	7+7/8	4+1/2	11.6	7,818	300	7,818	6,350	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7610 with 2 sacks cmt on top. CIPB #2: Depth 6860 with 30 sacks cmt on top.

CIBP #3: Depth 175 with 23 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 _____ 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 5220 ft. with 275 sacks. Leave at least 100 ft. in casing 4240 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 250 sacks half in. half out surface casing from 1540 ft. to 715 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:

Whittemore 7-28A P&A (75374)
1. Call foreman or Lead Operator before rig up to isolate and remove automation and production equipment. Install fence if needed.
2. MIRU slickline services & VES. Pull bumper spring, tag bottom (Gyro requested 12/19/2013). RDMO SL.
3. Provide notice to COGCC prior to MIRU per Form 6 COA.
4. Notify IOC when rig moves on location to generate work order for flowline removal and one call for line locates.
5. Prepare location for base beam rig.
6. MIRU WO rig. Kill well; circulate as necessary, with water containing biocide. ND wellhead. NU BOP's. Unseat landing joint and lay down.
7. Place cement services on will call when rig moves on location, providing expected volumes of cement needed. (~250sx for top plug; ~275 sx for Sx/Sh plug and 30 sx for NB/CD plug).
8. TOOH and stand back 2-3/8" TBG.
9. MIRU wireline services. RIH gauge ring for 4-1/2" casing to 7620'
10. PU 4-1/2" CIBP and RIH to 7610', Set CIBP. Note: PT CIBP to 1000 psi.
11. Dump bail 2 sacks of cement on top of CIBP at 7610'.
12. PU 4-1/2" CIBP and RIH on wireline to 6860'. Set CIBP. Note: PT CIBP to 1000 psi. RDMO W/L.
13. RIH on 2-3/8" TBG to 6860'.
14. Initiate circulation using water containing biocide. Note rate and pressure.
15. MIRU cementing services. Pump 30 sx of 1:1:3 'Poz:G:Gel' + 20% silica flour +0.4% CFL-2 + 0.1%SMS + 0.05%CR-4 Density 13.5 ppg Thickening Time : 4:19 at 200 F, Yield 1.66 cuft/ sk.
16. PUH 18 stands. Circulate (TBG Vol + Excess) to CLR TBG. RD cementing services
17. Load hole and circulate with 9.0 ppg mud containing biocide.
18. TOOH w/ TBG. SB with 70 stds of TBG (4240'). LD remainder
19. RU wireline services. PU two 1' 3-1/8" perf guns loaded with 3 spf, 0.5" EHD, 120 phasing. Shoot 1' of squeeze holes at 5220' and 4200'. RD wireline
20. PU 4-1/2" CICR and RIH on 2 3/8" production tubing to 4240'. Set CICR.
21. Initiate circulation through CICR using water containing biocide.
22. RU cementing services. Preflush with 5 bbl H2O, 20 bbl of sodium metasilicate, 5 bbl H2O.
23. Pump 275 sx of 1:2:3 'Poz:III: Gel' + 3% (BWOW) KCl +1% SMS +0.4% CR-4 +0.2% SPC-2 + 2lb/sk PS Flake ; Density = 12.5 ppg, Water Requirement = 10.52 gal/sk , Yield = 1.93 cuft/sk , Thickening Time = 3:12 at 160 F. Cement from 5220' to 4200'.
24. Underdisplace by 3 BBL cement. Unsting from CICR, dump 3 BBL remaining on top of CICR.
25. PUH 6 stands. Circulate 9.0 ppg mud with biocide to CLR TBG.
26. P&SB 25 stands of TBG (~1540') and WOC for 4 hrs. RD cementing services.
27. RU wireline services. Crack closest coupling at +/- 1440' or shoot off. RD wireline.
28. Circulate with mud w/ biocide.
29. NDBOP, NDTH.
30. NU BOP on casing head. Install 4-1/2" pipe rams.
31. TOOH with 4-1/2" casing and lay down.
32. RIH with 2-3/8" TBG into casing stub to 1540'.
33. RU Cementing services. Spot 250 sx of Type III + 0.2 % SPC 02 ; Density 14.2 ppg , Water Requirement = 7.32 gal/sk ; Yield = 1.46 cuft/sk ; Thickening Time = 2:49 at 80 F. Cement from 1540' to 715' .
34. PUH & circulate 9.0 PPG mud w/ biocide to clear TBG. TOOH. WOC 4 hrs
35. TIH and tag cement plug. If plug top is below 715', top as necessary.
36. MIRU wireline services. PU 8-5/8" CIBP and RIH to 175'. Set CIBP. Pressure test CIBP to 1000 psi for 15 minutes. If plug tests, RDMO wireline and WO rig.
37. Wellsite supervisor turn all paper copies of cementing reports/invoices and logs in to Sabrina Frantz. NOTE: During the job, wellsite supervisor should instruct the logging and cementing contractors to e-mail all logs, job reports/invoices to Sabrina Frantz.
38. Have excavation contractor notify One-Call to clear for excavating around wellhead and flowline removal.
39. Excavate hole around surface casing of sufficient size and depth to allow welder to cut off 8-5/8" surface casing and at least 5' below ground level.
40. Have welder cut off 8-5/8" surface casing at least 5' below ground level.
41. MIRU ready cement mixer. Use 4,500 psi compressive strength redi-mix cement.

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: 12/30/2013 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: 1/3/2014

CONDITIONS OF APPROVAL, IF ANY: Expiration Date: 7/2/2014

COA Type	Description
	Note changes to plugging procedure: 1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU. 2) If unable to pull casing, contact COGCC for plugging modifications. 3) Leave at least 100’ cement in the wellbore for each plug. 4) For 1540' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 715’ or shallower. 5)Move CIBP from proposed 100' to 175' since base of Lower Arapahoe aquifer is at 146'. Adjust cement volumes accordingly. 6) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.

Attachment Check List

Att Doc Num	Name
400533234	FORM 6 INTENT SUBMITTED
400533241	PROPOSED PLUGGING PROCEDURE
400533242	WELLBORE DIAGRAM
400533243	WELLBORE DIAGRAM

Total Attach: 4 Files

General Comments

User Group	Comment	Comment Date

Total: 0 comment(s)