

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



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Document Number:

400613414

Date Received:

05/22/2014

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: 100322

Contact Name: Cheryl Light

Name of Operator: NOBLE ENERGY INC

Phone: (720) 929-6461

Address: 1625 BROADWAY STE 2200

Fax: (720) 929-7461

City: DENVER State: CO Zip: 80202

Email: cheryl.light@anadarko.com

For "Intent" 24 hour notice required,

Name: JOHNSON, RANDELL

Tel: (303) 815-9641

COGCC contact:

Email: randell.johnson@state.co.us

API Number 05-123-19680-00

Well Name: ROCKY MOUNTAIN FUEL VV

Well Number: 8-4JI

Location: QtrQtr: NWNW Section: 8 Township: 1N 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: 40.071351

Longitude: -104.922212

GPS Data:

Date of Measurement: 03/09/2010

PDOP Reading: 3.4

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: 1460

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	8179	8206			

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	796	560	796	0	VISU
1ST	7+7/8	4+1/2	13.5	8,304	335	8,304	7,182	CBL
	7+7/8	4+1/2	Stage Tool	5,074	125	5,074	4,420	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 8120 with 2 sacks cmt on top. CIBP #2: Depth 80 with 23 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 20 sks cmt from 4700 ft. to 4500 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 7100 ft. with 100 sacks. Leave at least 100 ft. in casing 6830 CICR Depth

Perforate and squeeze at 5400 ft. with 200 sacks. Leave at least 100 ft. in casing 5130 CICR Depth

Perforate and squeeze at _____ ft. with _____ sacks. Leave at least 100 ft. in casing _____ CICR Depth

(Cast Iron Cement Retainer Depth)

Set 470 sacks half in. half out surface casing from 1560 ft. to 600 ft. Plug Tagged: ☒

Set 23 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. Call foreman or Lead Operator before rig up to isolate and remove automation and production equipment. Install fence if needed.
2. MIRU slickline services. Pull bumper spring, tag bottom.
3. Run pressure bomb and obtain pressure gradient survey from surface to 8193' making gradient stops every 1000'. Forward pressure bomb results to Sabrina Frantz. RDMO slickline services
4. Provide notice to COGCC prior to MIRU per Form 6 COA.
5. Notify IOC when rig moves on location to generate work order for flowline removal and one call for line locates.
6. Prepare location for base beam rig.
7. MIRU WO rig. Kill well; circulate as necessary, with water containing biocide. ND wellhead. NU BOP's. Unseat landing joint and lay down.
8. Place cement services on will call when rig moves on location, providing expected volumes of cement needed. (~ 100 sacks for NB/CD suicide squeeze job; ~ 200 sacks for SX/SH suicide squeeze job, ~ 470 sacks for Fox Hills/ surface plug). See attached WBD for cement blends.
9. TOO H and stand back 2-3/8" TBG.
10. MIRU wireline services. RIH gauge ring for 4-1/2" (13.5#) casing to 8200'.
11. PU 4-1/2" (13.5#) CIBP and RIH on W/L to +/-8120'. Set CIBP. P/T CIBP to 1000 psi. Dump bail 2 sacks of cement on top of CIBP.
12. PU two 1' 3-1/8" perf guns loaded with 3 spf, 0.5" EHD, 120 phasing. Shoot 1' of squeeze holes at 7100' and 6800'. RD wireline.
13. PU 4-1/2" (13.5#) CIBP and RIH on 2-3/8" TBG to +/- 6830'. Hydrotest TBG to 3000 psi while RIH. Set CIBP.
14. Initiate circulation using water containing biocide. Note rate and pressure.
15. MIRU cementing services.
16. Pump 100 sacks of 50/50 Poz "G" w/ 20% silica flour, 3% gel, 0.1% sodium metasilicate and 0.4% FL-52. Mixed at 13.5 ppg and 1.71 cuft/ sk yield with 20% excess and 9" hole size. Cement from 7100' to 6800'.
17. Underdisplace by 3 BBL. Unsting from CIBP and dump remainder on CIBP.
18. PUH 9 stands. Circulate (TBG Vol + Excess) to CLR TBG. RD cementing services.
19. P & SB 5130' (83 stands) of TBG. LD remainder.
20. 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 5400' and 5100'. RD wireline.
21. PU 4-1/2" (13.5#) CIBP and RIH on 2-3/8" TBG to 5130'. Set CIBP
22. Initiate circulation through CIBP using water containing biocide. Note rate and pressure.
23. MIRU cementing services. Preflush with 5 bbl of H2O; 20 bbl of sodium metasilicate; 5 bbl of H2O.
24. Pump 200 sacks of "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 calculated with 20% excess and 9" hole size. Cement from 5400' to 5100'.
25. Underdisplace by 10 BBL. Unsting from CIBP and dump remainder on CIBP.
26. PUH to 4420'. Circulate (TBG Vol + Excess) to CLR TBG. RD cementing services.
27. P & SB 1560' (25 stands) of TBG. LD remainder.
28. RU wireline services. Crack closest coupling at 1460' or shoot off. RD wireline.
29. NDBOP, NDTH.
30. NU BOP on casing head. Install 4-1/2" pipe rams.
31. TOO H with 4-1/2" casing and lay down. Install 2-3/8" pipe rams.
32. RIH with 2-3/8" TBG into casing stub to 1560'.
33. RU Cementing services. Pump 470 sacks of Type III w/ cello flake and CaCl2, mixed at 14.0 ppg and 1.53 cuft/sk, calculated with 12" hole size and 20% cement excess. Cement from 1560' to 600'.
34. PUH to 600' & circulate w/ biocide + water to clear TBG. TOO H. WOC 4 hrs
35. TIH and tag cement plug. If plug top is below 600', top as necessary.
36. MIRU wireline services. PU 8-5/8" CIBP and RIH to 80'. Set CIBP. Pressure test CIBP to 1000 psi for 15 minutes. If plug tests, RDMO wireline and WO rig.
37. 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.
38. Wellsite supervisor turn all paper copies of cementing reports/invoices and logs in.

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: _____ Print Name: Liz Lindow
Title: Regulatory Analyst Date: 5/22/2014 Email: llindow@nobleenergyinc.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: 6/2/2014

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 12/1/2014

COA Type	Description
	<p>Note changes to plugging procedure:</p> <ol style="list-style-type: none"> 1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU. 2) Add 20 sxs Sussex casing plug @ 4700'. 3) If unable to pull casing contact COGCC for plugging modifications. 4) For 1560' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 746' or shallower. 5) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.

Attachment Check List

Att Doc Num	Name
400613414	FORM 6 INTENT SUBMITTED
400613674	PROPOSED PLUGGING PROCEDURE
400613675	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date
Permit	Well Completion Report dated 1/15/1999.	5/23/2014 11:05:36 AM

Total: 1 comment(s)