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

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Date Received:

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: REBECCA HEIM

Name of Operator: KERR MCGEE OIL & GAS ONSHORE LP Phone: (720) 929-6361

Address: P O BOX 173779 Fax: (720) 929-7361

City: DENVER State: CO Zip: 80217- Email: REBECCA.HEIM@ANADARKO.COM

For "Intent" 24 hour notice required, COGCC contact: Name: Carlile, Craig Tel: (970) 629-8279 Email: craig.carlile@state.co.us

API Number 05-123-16078-00

Well Name: HENRICKSON AMOCO Well Number: 41-19A

Location: QtrQtr: NENE Section: 19 Township: 3N Range: 66W 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: 40.215920 Longitude: -104.813480

GPS Data:

Date of Measurement: 03/14/2006 PDOP Reading: 3.6 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: 1100

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	7360	7372			
J SAND	7803	7852			
NIOBRARA	7104	7116			

Total: 3 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	466	290	466	0	VISU
1ST	7+7/8	4+1/2	11.6	7,611	185	7,610	6,640	CBL
1ST LINER	3+7/8	2+7/8	6.5	7,935	35	7,966	7,400	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7400 with 2 sacks cmt on top. CIPB #2: Depth 7040 with 30 sacks cmt on top.

CIBP #3: Depth 80 with 25 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 30 sks cmt from 7040 ft. to 6640 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 4520 ft. with 250 sacks. Leave at least 100 ft. in casing 4150 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 490 sacks half in. half out surface casing from 1200 ft. to 260 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:

Henrickson Amoco 41-19 A (SEE ATTACHED PROCEDURE)
1. Note: Production Casing = 4-1/2'' OD, 11.6#/ft, WC-70; Production Hole Drilled @ 7 7/8''
2. 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 isolate production equipment and remove any automation prior to rig MIRU.
3. MIRU slickline services. Pull bumper spring and tag bottom. Forward results to Evans Engineering. RD slick line services.
4. Prepare location for base beam equipped rig.
5. Check and record Bradenhead pressure. If Bradenhead valve is not accessible, re-plumb so that valve is above GL.
6. MIRU, kill as necessary using clean fresh water with biocide and circulate. ND WH. NU BOP. Unseat landing jt, LD.
7. Notify cementers to be on call. Provide volumes listed below:
7.1 Niobrara Plug: 41 cu ft/30 sx class G w/ 20% silica flour, 0.4% CD-32, 0.4% ASA-301 and R-3 mixed at 15.8 ppg and 1.38 cuft/sk (400' inside 4-1/2'' casing, no excess)
7.2 SX Suicide: 287 cu ft/ 250 sx class ''G'' w/0.25 pps cello flake, 0.4% CD-32, 0.4% ASA-301 mixed at 15.8 ppg and 1.15 cf/sx (400’ in 10.75” OH + 20% excess and 400’ inside 4-1/2” casing, no excess).
7.3 Stub Plug: 652 cu ft/490 sx Type III CaCl2 cement w/0.25 pps cello flake mixed at 14.8 ppg and 1.33 cf/sx (100' in 4-1/2'' prod casing, 634' in 10.75'' OH + 40% excess, and 206' in 8 5/8'' surface casing).
8. TOOH 2-3/8” and 1.66” tubing. LD 1.66” tubing.
9. RU WL. RIH gauge ring for 4-1/2” 11.6# casing to 7450’. POOH.
10. RIH CIBP and set at +/- 7400’. Dump bail 2 sx neat “G” cmt. POOH
11. RIH CIBP and set at +/- 7040’. Pressure test CIBP to 1000 psi. POOH.
12. Run CBL from 7040’ to surface to verify cement coverage of Amoco well. Note: It is important to get a good quality CBL. It may be necessary to circulate from just above CIBP to surface in order to get gas out of the hole. RD WL.
13. RU Cementers. Pump Niobrara Plug: 41 cu ft/30 sx class G w/ 20% silica flour, 0.4% CD-32, 0.4% ASA-301 and R-3 mixed at 15.8 ppg and 1.38 cuft/sk to place cement in 4-1/2'' production casing from 7040’ to 6640’.
14. PUH to 6400’. Circulate 100 bbls water containing biocide to clear tubing. Then, TOOH.
15. RU WL. PU 3-1/8'' perf guns with 3 spf, 0.5'' dia 120deg phasing. Shoot 1' of squeeze holes at 4520' and 4120'. RD WL.
16. RIH w/CICR on 2-3/8” to 4150’ while hydrotesting to 3000 psi.
17. RU Cementers. Pump SX suicide: 287 cu ft/250 sx class ''G'' w/0.25 pps cello flake, 0.4% CD-32, 0.4% ASA-301 mixed at 15.8 ppg and 1.15 cf/sx to place cement in squeeze holes and casing from 4520’ to 4120’ (400’ in 10.75” OH + 20% excess and 400’ inside 4-1/2” casing, no excess). Under displace and sting out of CICR to leave 3 bbls on top of retainer.
18. PUH to 3800’ and circulate 60 bbls water containing biocide to clear cement and tubing. Then TOOH and LD all but ~1200’ of tbg.
19. RU WL. Shoot off casing at or below 1100'. RD WL. Circulate water containing biocide to remove any gas.
20. NDBOP, NDTH.
21. Install BOP on casing head with 4-1/2'' pipe rams.
22. TOOH with 4-1/2'' casing, LD. Remove 4-1/2” rams, install 2-3/8” rams.
23. RIH with 2-3/8 '' tubing to 1200'.
24. RU Cementers. Pump 10 bbl SAPP with a minimum of 20 bbl fresh water spacer. Spot Stub Plug: 652 cu ft/490 sx Type III CaCl2 cement w/0.25 pps cello flake mixed at 14.8 ppg and 1.33 cf/sx from 1200’ to 260’ (100' in 4-1/2'' prod casing, 634' in 10.75'' OH + 40% excess, and 206' in 8 5/8'' surface casing).
25. PUH to 100’ and circulate 10 bbls water containing biocide to clear tubing.
26. TOOH. WOC 4 hrs. Tag Cement. Cement top needs to be above 260'; Proceed assuming TOC is above 260'. Otherwise, call production engineer.
27. MIRU WL. RIH 8 5/8'' CIBP to 80'. Set, PT to 1000 psi for 15 min. If tests, RDMO WL and WO rig.
28. Instruct cementing and wireline contractors to e-mail copies of all job logs/job summarie

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: _____ 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: _____ Date: _____

CONDITIONS OF APPROVAL, IF ANY: Expiration Date: _____

Attachment Check List

Att Doc Num	Name
400702131	PROPOSED PLUGGING PROCEDURE
400702132	WELLBORE DIAGRAM

Total Attach: 2 Files

General Comments

User Group	Comment	Comment Date

Total: 0 comment(s)