

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: 400702119			
Date Received: 10/06/2014			

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: 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, Name: Carlile, Craig Tel: (970) 629-8279	
COGCC contact: Email: craig.carlile@state.co.us	

API Number 05-123-16078-00	Well Number: 41-19A
Well Name: HENRICKSON AMOCO	
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: <input type="checkbox"/> Dry <input checked="" type="checkbox"/> Production for Sub-economic <input type="checkbox"/> Mechanical Problems	
<input type="checkbox"/> Other	
Casing to be pulled: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Estimated Depth: 1100
Fish in Hole: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, explain details below
Wellbore has Uncemented Casing leaks: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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. TOO H 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, TOO H.
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 TOO H 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. TOO H 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. TOO H. 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 summaries

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: 10/6/2014 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: 11/3/2014

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 5/2/2015

<u>COA Type</u>	<u>Description</u>
	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 1200' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 416' 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 CBL for 2 7/8" liner with Form 6 (s) Subsequent Report of Abandonment.

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400702119	FORM 6 INTENT SUBMITTED
400702131	PROPOSED PLUGGING PROCEDURE
400702132	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Well Completion Report dated 4/6/1993, 7/23/1993 & 1/31/2001.	10/21/2014 1:51:08 PM

Total: 1 comment(s)