

Document Number:
401169082

Date Received:
12/17/2016

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: Helgeland, Gary Tel: (970) 216-5749

COGCC contact: Email: gary.helgeland@state.co.us

API Number 05-123-12406-00

Well Name: CHAMPLIN 86 G Well Number: 1

Location: QtrQtr: CSW Section: 17 Township: 1N Range: 68W 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: 40.047250 Longitude: -105.032060

GPS Data:
Date of Measurement: 03/13/2007 PDOP Reading: 6.0 GPS Instrument Operator's Name: ROBERT M.

Reason for Abandonment: Dry Production Sub-economic Mechanical Problems
 Other _____

Casing to be pulled: Yes No Estimated Depth: 1205

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	7870	7878			
J SAND	8306	8326			
NIOBRARA	7466	7735			

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	9+5/8	36	1,067	550	1,067	0	VISU
1ST	8+3/4	7	23	8,450	376	8,450	6,620	CALC

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 8250 with 2 sacks cmt on top. CIBP #2: Depth 7410 with 60 sacks cmt on top.
CIBP #3: Depth 80 with 30 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 60 sks cmt from 7410 ft. to 7010 ft. Plug Type: CASING Plug Tagged:
Set 19 sks cmt from 4420 ft. to 4293 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 4905 ft. with 211 sacks. Leave at least 100 ft. in casing 4420 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 180 sacks half in. half out surface casing from 1305 ft. to 1017 ft. Plug Tagged:

Set 30 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:

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: 12/17/2016 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: McCoy, Diane Date: 1/12/2017

CONDITIONS OF APPROVAL, IF ANY: _____

Expiration Date: 7/11/2017

COA Type	Description
	<p>1) Prior to starting plugging operations a bradenhead test shall be performed. If the beginning pressure is greater than 25 psi, or if pressure remains at the conclusion of the test, or if any liquids were present contact COGCC Engineer for sampling requirements. The Form 17 shall be submitted within 10 days of the test.</p> <p>2) Provide 48 hour notice of plugging MIRU via electronic Form 42.</p> <p>3) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.</p> <p>4) Please submit gyro survey data with Form 6 Subsequent Report of Abandonment.</p> <p>5) No CBL on file with COGCC, verify cement top with CBL prior to plugging. Must submit CBL with Form 6 Subsequent Report of Abandonment that shows TOC 7200' or shallower.</p> <p>6) Note- production casing stub plug is also surface casing shoe plug. After pumping stub/shoe plug, shut down and wait on cement at minimum 4 hours; verify gas migration has been eliminated. If evidence of gas migration or pressure remains contact COGCC Engineer for an update to plugging orders. Plug must be tagged at 1017' or shallower. Leave at least 100' cement in the wellbore for each plug.</p>

Attachment Check List

Att Doc Num	Name
401169082	WELL ABANDONMENT REPORT (INTENT)
401169084	PROPOSED PLUGGING PROCEDURE
401169085	WELLBORE DIAGRAM
401183364	FORM 6 INTENT SUBMITTED

Total Attach: 4 Files

General Comments

User Group	Comment	Comment Date
Public Room	Document verification complete 12/19/16	12/19/2016

Total: 1 comment(s)

Document Number:
401345624

Date Received:
10/24/2017

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: Helgeland, Gary Tel: (970) 216-5749

COGCC contact: Email: gary.helgeland@state.co.us

API Number 05-123-26920-00

Well Name: TALLGRASS Well Number: 13-17

Location: QtrQtr: NESW Section: 17 Township: 1N Range: 68W 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: 40.047347 Longitude: -105.032185

GPS Data:
Date of Measurement: 06/09/2009 PDOP Reading: 2.4 GPS Instrument Operator's Name: Chris Pearson

Reason for Abandonment: Dry Production Sub-economic Mechanical Problems

Other _____

Casing to be pulled: Yes No Estimated Depth: 900

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	7930	7950	04/24/2017	BRIDGE PLUG	7450
NIOBRARA	7525	7811	04/24/2017	BRIDGE PLUG	7450

Total: 2 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	969	610	969	0	VISU
1ST	7+7/8	4+1/2	11.6	8,100	995	8,100	1,446	CBL
S.C. 1.1				1,200	39	1,282	980	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7475 with 25 sacks cmt on top. CIBP #2: Depth 4440 with 2 sacks cmt on top.
CIBP #3: Depth 80 with 25 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 25 sks cmt from 7475 ft. to 7075 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 1400 ft. with 45 sacks. Leave at least 100 ft. in casing 1330 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 90 sacks half in. half out surface casing from 1205 ft. to 850 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. _____ inch casing Plugging Date: _____
of _____

*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:

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: 10/24/2017 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: McCoy, Diane Date: 11/13/2017

CONDITIONS OF APPROVAL, IF ANY: _____

Expiration Date: 5/12/2018

COA Type	Description
	1) Prior to starting plugging operations a bradenhead test shall be performed. The Form 17 shall be submitted within 10 days of the test. 2) Provide 48 hour notice of plugging MIRU via electronic Form 42. 3) Properly abandon flowlines as per Rule 1103. 4) Operator shall implement measures to control unnecessary and excessive venting, to protect the health and safety of the public, and to ensure that vapors and odors from well plugging operations do not constitute a nuisance or hazard to public welfare. 5) After pumping squeeze, shut down and wait on cement at minimum 8 hours; verify gas migration has been eliminated. If evidence of gas migration or pressure remains contact COGCC Engineer for an update to plugging orders. Production casing stub plug is also surface casing shoe plug, this plug must be tagged at 850' or shallower. Leave at least 100' of cement in the wellbore for each plug.

Attachment Check List

Att Doc Num	Name
401345624	FORM 6 INTENT SUBMITTED
401439629	PROPOSED PLUGGING PROCEDURE
401439630	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date
Engineer	Push back to draft to allow operator to update plugging procedure.	10/06/2017
Engineer	Form 42 on file stating flowlines were abandoned 05/17/2017. Bradenhead samples collected April 2017.	10/05/2017
Public Room	Document verification complete 07/25/17	07/25/2017

Total: 3 comment(s)

Document Number:
 401382470
 Date Received:
 08/22/2017

WELL ABANDONMENT REPORT

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 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: Helgeland, Gary Tel: (970) 216-5749
COGCC contact: Email: gary.helgeland@state.co.us

API Number 05-123-26925-00 Well Name: TALLGRASS Well Number: 33-17
 Location: QtrQtr: NESW Section: 17 Township: 1N Range: 68W 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: 40.047377 Longitude: -105.032154
 GPS Data:
 Date of Measurement: 06/09/2009 PDOP Reading: 2.5 GPS Instrument Operator's Name: CHRIS PEARSON
 Reason for Abandonment: Dry Production Sub-economic Mechanical Problems
 Other _____
 Casing to be pulled: Yes No Estimated Depth: 650
 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	8018	8038	04/25/2017	BRIDGE PLUG	7580
J SAND	8461	8477	04/25/2017	BRIDGE PLUG	7580
NIOBRARA	7648	7888	04/25/2017	BRIDGE PLUG	7580

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	929	580	929	0	VISU
1ST	7+7/8	4+1/2	11.6	8,586	795	8,586	3,510	CBL
S.C. 1.1				1,500	145	1,518	710	CBL
S.C. 1.2				1,985	180	1,985	1,585	CALC

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 8410 with 2 sacks cmt on top. CIPB #2: Depth 7590 with 25 sacks cmt on top.
 CIBP #3: Depth 4520 with 2 sacks cmt on top. CIPB #4: Depth 80 with 25 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 7590 ft. to 7190 ft. Plug Type: CASING Plug Tagged:
 Set 35 sks cmt from 2000 ft. to 1535 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 110 sacks half in. half out surface casing from 1210 ft. to 600 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. _____ inch casing Plugging Date: _____
 of _____
 *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:

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: 8/22/2017 Email: CHERYL.LIGHT@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: McCoy, Diane Date: 1/30/2018

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 7/29/2018

COA Type	Description
	<p>Overdue for well repair work or PA.</p> <p>1) Provide 48 hour notice of plugging MIRU via electronic Form 42.</p> <p>2) Properly abandon all flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.</p> <p>3) Operator shall implement measures to control unnecessary and excessive venting, to protect the health and safety of the public, and to ensure that vapors and odors from well plugging operations do not constitute a nuisance or hazard to public welfare.</p> <p>4) Submit CBL with Form 6 Subsequent Report of Abandonment.</p> <p>5) After pumping plug from 2000-1535', shut down and wait on cement at minimum 8 hours; verify gas migration has been eliminated. If evidence of gas migration or pressure remains contact COGCC Engineer for an update to plugging orders. Leave at least 100' of cement in the wellbore for each plug.</p>
	<p>Prior to starting plugging operations a bradenhead test shall be performed.</p> <p>1) If, before opening the bradenhead valve, the beginning pressure is greater than 25 psi, sampling is required.</p> <p>2) If pressure remains at the conclusion of the test, or if any liquids were present during the test, sampling is required.</p> <p>The Form 17 shall be submitted within 10 days of the test. Sampling shall comply with Operator Guidance - Bradenhead Testing and Reporting Instructions. If samples are collected, copies of all final laboratory analytical results shall be provided to the COGCC within three (3) months of collecting the samples.</p>

Attachment Check List

Att Doc Num	Name
401382470	WELL ABANDONMENT REPORT (INTENT)
401382471	PROPOSED PLUGGING PROCEDURE
401382472	WELLBORE DIAGRAM
401530202	FORM 6 INTENT SUBMITTED

Total Attach: 4 Files

General Comments

User Group	Comment	Comment Date
Engineer	Form 5 has been approved. The casing could not pass a pressure test after the squeeze, indicating that one or more of the squeeze holes had failed. CBL was not run due to the holes leaking. Added balanced plug at squeeze holes.	01/30/2018
Engineer	On hold- Form 5 in process	11/13/2017
Public Room	Document verification complete 08/21/17	08/28/2017

Total: 3 comment(s)

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: 401345687			
Date Received: 10/24/2017			

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: Helgeland, Gary Tel: (970) 216-5749
COGCC contact: Email: gary.helgeland@state.co.us

API Number 05-123-26923-00 Well Name: TALLGRASS Well Number: 22-17
 Location: QtrQtr: NESW Section: 17 Township: 1N Range: 68W 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: 40.047473 Longitude: -105.032055
 GPS Data:
 Date of Measurement: 06/09/2009 PDOP Reading: 2.3 GPS Instrument Operator's Name: CHRIS PEARSON
 Reason for Abandonment: Dry Production Sub-economic Mechanical Problems
 Other _____
 Casing to be pulled: Yes No Estimated Depth: 550
 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	7992	8012			
NIOBRARA	7672	7920			

Total: 2 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	974	610	974	0	VISU
1ST	7+7/8	4+1/2	11.6	8,163	695	8,163	3,426	CBL
S.C. 1.1				1,500	165	1,510	650	CBL
S.C. 1.2				2,100	205	2,230	1,620	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7620 with 25 sacks cmt on top. CIBP #2: Depth 4505 with 2 sacks cmt on top.
CIBP #3: Depth 80 with 25 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 25 sks cmt from 7620 ft. to 7220 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 2850 ft. with 175 sacks. Leave at least 100 ft. in casing 2480 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 120 sacks half in. half out surface casing from 1200 ft. to 500 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. _____ inch casing Plugging Date: _____
of _____

*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:

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: 10/24/2017 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: McCoy, Diane Date: 11/13/2017

CONDITIONS OF APPROVAL, IF ANY: _____

Expiration Date: 5/12/2018

COA Type	Description
	1) Provide 48 hour notice of plugging MIRU via electronic Form 42. 2) Properly abandon flowlines as per Rule 1103. 3) Operator shall implement measures to control unnecessary and excessive venting, to protect the health and safety of the public, and to ensure that vapors and odors from well plugging operations do not constitute a nuisance or hazard to public welfare. 4) After pumping squeeze, shut down and wait on cement at minimum 8 hours; verify gas migration has been eliminated. If evidence of gas migration or pressure remains contact COGCC Engineer for an update to plugging orders. Production casing stub plug is also surface casing shoe plug, this plug must be tagged at 500' or shallower. Leave at least 100' of cement in the wellbore for each plug.
	Prior to starting plugging operations a bradenhead test shall be performed. 1) If, before opening the bradenhead valve, the beginning pressure is greater than 25 psi, sampling is required. 2) If pressure remains at the conclusion of the test, or if any liquids were present during the test, sampling is required. Sampling shall comply with Operator Guidance - Bradenhead Testing and Reporting Instructions. The Form 17 shall be submitted within 10 days of the test.

Attachment Check List

Att Doc Num	Name
401345687	WELL ABANDONMENT REPORT (INTENT)
401439663	PROPOSED PLUGGING PROCEDURE
401439666	WELLBORE DIAGRAM
401456985	FORM 6 INTENT SUBMITTED

Total Attach: 4 Files

General Comments

User Group	Comment	Comment Date
Engineer	Push back to draft to allow operator to update plugging procedure.	10/06/2017
Engineer	Form 42 on file stating flowlines were abandoned 05/17/2017. Corrected TOC.	10/05/2017
Public Room	Document verification complete 07/25/17	07/25/2017

Total: 3 comment(s)

Document Number:
401345605

Date Received:
07/18/2017

WELL ABANDONMENT REPORT

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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: Helgeland, Gary Tel: (970) 216-5749

COGCC contact: Email: gary.helgeland@state.co.us

API Number 05-123-26921-00

Well Name: TALLGRASS Well Number: 12-17

Location: QtrQtr: NESW Section: 17 Township: 1N Range: 68W 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: 40.047407 Longitude: -105.032123

GPS Data:
Date of Measurement: 06/09/2009 PDOP Reading: 2.4 GPS Instrument Operator's Name: CHRIS PEARSON

Reason for Abandonment: Dry Production Sub-economic Mechanical Problems
 Other _____

Casing to be pulled: Yes No Estimated Depth: 740

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
NIOBRARA	7606	7830			
CODELL	7960	7978	04/13/2017	BRIDGE PLUG	7944

Total: 2 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	975	610	975	0	VISU
1ST	7+7/8	4+1/2	11.6	8,124	655	8,124	3,430	CBL
S.C. 1.1				1,200	125	1,210	790	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7530 with 25 sacks cmt on top. CIBP #2: Depth 4450 with 2 sacks cmt on top.
CIBP #3: Depth 80 with 25 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 25 sks cmt from 7530 ft. to 7130 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 3300 ft. with 175 sacks. Leave at least 100 ft. in casing 2930 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 110 sacks half in. half out surface casing from 1300 ft. to 690 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. _____ inch casing Plugging Date: _____
of _____

*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:

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: 7/18/2017 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: McCoy, Diane Date: 10/5/2017

CONDITIONS OF APPROVAL, IF ANY: _____

Expiration Date: 4/4/2018

COA Type	Description
	1) Provide 48 hour notice of plugging MIRU via electronic Form 42. 2) Properly abandon flowlines as per Rule 1103. 3) After pumping squeeze at 3300' shut down and wait on cement at minimum 4 hours; verify gas migration has been eliminated. If evidence of gas migration or pressure remains contact COGCC Engineer for an update to plugging orders. Plug listed as half in-half out surface casing is actually production casing stub plug that will also cover the surface casing shoe. This plug must be tagged 50' above depth production casing is cut and pulled. Leave at least 100' of cement in the wellbore for each plug.
	Prior to starting plugging operations a bradenhead test shall be performed. 1) If, before opening the bradenhead valve, the beginning pressure is greater than 25 psi, sampling is required. 2) If pressure remains at the conclusion of the test, or if any liquids were present during the test, sampling is required. Sampling shall comply with Operator Guidance - Bradenhead Testing and Reporting Instructions. The Form 17 shall be submitted within 10 days of the test.

Attachment Check List

Att Doc Num	Name
401345605	WELL ABANDONMENT REPORT (INTENT)
401345620	PROPOSED PLUGGING PROCEDURE
401345621	WELLBORE DIAGRAM
401421105	FORM 6 INTENT SUBMITTED

Total Attach: 4 Files

General Comments

User Group	Comment	Comment Date
Engineer	Updated plugging procedure per email from operator- added squeeze. Form 5A (Document # 401277796) states there is a bridge plug at 7944' set in April 2017 that was not removed.	10/05/2017
Engineer	On hold- called and emailed operator to discuss plugging procedure change.	10/05/2017
Public Room	Document verification complete 07/20/17	07/20/2017

Total: 3 comment(s)

Document Number:
401345661

Date Received:
10/24/2017

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: Helgeland, Gary Tel: (970) 216-5749

COGCC contact: Email: gary.helgeland@state.co.us

API Number 05-123-26922-00

Well Name: TALLGRASS Well Number: 14-17

Location: QtrQtr: NESW Section: 17 Township: 1N Range: 68W 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: 40.047437 Longitude: -105.032092

GPS Data:
Date of Measurement: 06/09/2009 PDOP Reading: 2.4 GPS Instrument Operator's Name: CHRIS PEARSON

Reason for Abandonment: Dry Production Sub-economic Mechanical Problems

Other _____

Casing to be pulled: Yes No Estimated Depth: 750

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	7924	7942	04/15/2017	BRIDGE PLUG	7450
NIOBRARA	7520	7804	04/15/2017	BRIDGE PLUG	7450

Total: 2 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	974	610	974	0	VISU
1ST	7+7/8	4+1/2	11.6	8,096	670	8,096	4,218	CBL
S.C. 1.1				1,500	135	1,576	812	CBL
S.C. 1.2				2,030	165	2,102	1,630	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7450 with 25 sacks cmt on top. CIBP #2: Depth 4460 with 2 sacks cmt on top.
CIBP #3: Depth 80 with 25 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 25 sks cmt from 7450 ft. to 7050 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 2700 ft. with 175 sacks. Leave at least 100 ft. in casing 2330 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 100 sacks half in. half out surface casing from 1210 ft. to 700 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. _____ inch casing Plugging Date: _____
of _____

*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:

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: 10/24/2017 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: McCoy, Diane Date: 11/13/2017

CONDITIONS OF APPROVAL, IF ANY: _____

Expiration Date: 5/12/2018

COA Type	Description
	1) Prior to starting plugging operations a bradenhead test shall be performed. The Form 17 shall be submitted within 10 days of the test. 2) Provide 48 hour notice of plugging MIRU via electronic Form 42. 3) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete. 4) Operator shall implement measures to control unnecessary and excessive venting, to protect the health and safety of the public, and to ensure that vapors and odors from well plugging operations do not constitute a nuisance or hazard to public welfare. 5) After pumping squeeze, shut down and wait on cement at minimum 8 hours; verify gas migration has been eliminated. If evidence of gas migration or pressure remains contact COGCC Engineer for an update to plugging orders. Production casing stub plug is also surface casing shoe plug, this plug must be tagged at 700' or shallower. Leave at least 100' of cement in the wellbore for each plug.

Attachment Check List

Att Doc Num	Name
401345661	WELL ABANDONMENT REPORT (INTENT)
401439645	PROPOSED PLUGGING PROCEDURE
401439647	WELLBORE DIAGRAM
401456973	FORM 6 INTENT SUBMITTED

Total Attach: 4 Files

General Comments

User Group	Comment	Comment Date
Engineer	Push back to draft to allow operator to update plugging procedure.	10/06/2017
Engineer	Form 42 on file stating flowlines were abandoned 05/17/2017. Bradenhead samples collected April 2017.	10/05/2017
Public Room	Document verification complete 07/25/17	07/25/2017

Total: 3 comment(s)

Document Number:
401345586

Date Received:
07/18/2017

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: Helgeland, Gary Tel: (970) 216-5749

COGCC contact: Email: gary.helgeland@state.co.us

API Number 05-123-26924-00

Well Name: TALLGRASS Well Number: 11-17

Location: QtrQtr: NESW Section: 17 Township: 1N Range: 68W 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: 40.047507 Longitude: -105.032021

GPS Data:
Date of Measurement: 06/09/2009 PDOP Reading: 2.5 GPS Instrument Operator's Name: CHRIS PEARSON

Reason for Abandonment: Dry Production Sub-economic Mechanical Problems

Other _____

Casing to be pulled: Yes No Estimated Depth: 900

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	7933	7953			
NIOBRARA	7531	7800			

Total: 2 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	970	610	970	0	VISU
1ST	7+7/8	4+1/2	11.6	8,093	660	8,093	3,670	CBL
S.C. 1.1				1,505	135	1,624	944	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7480 with 25 sacks cmt on top. CIBP #2: Depth 4455 with 2 sacks cmt on top.
CIBP #3: Depth 80 with 25 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 25 sks cmt from 7480 ft. to 7080 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 _____ 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 70 sacks half in. half out surface casing from 1210 ft. to 850 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. _____ inch casing Plugging Date: _____
of _____

*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:

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: 7/18/2017 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: McCoy, Diane Date: 10/5/2017

CONDITIONS OF APPROVAL, IF ANY: _____

Expiration Date: 4/4/2018

COA Type	Description
	1) Provide 48 hour notice of plugging MIRU via electronic Form 42. 2) Properly abandon flowlines as per Rule 1103. 3) Production casing stub plug is also surface casing shoe plug. After pumping stub/shoe plug, shut down and wait on cement at minimum 4 hours; verify gas migration has been eliminated. If evidence of gas migration or pressure remains contact COGCC Engineer for an update to plugging orders. This plug must be tagged 50' above depth production casing is cut and pulled. Leave at least 100' of cement in the wellbore for each plug.
	Prior to starting plugging operations a bradenhead test shall be performed. 1) If, before opening the bradenhead valve, the beginning pressure is greater than 25 psi, sampling is required. 2) If pressure remains at the conclusion of the test, or if any liquids were present during the test, sampling is required. Sampling shall comply with Operator Guidance - Bradenhead Testing and Reporting Instructions. The Form 17 shall be submitted within 10 days of the test.

Attachment Check List

Att Doc Num	Name
401345586	WELL ABANDONMENT REPORT (INTENT)
401345593	PROPOSED PLUGGING PROCEDURE
401345594	WELLBORE DIAGRAM
401420855	FORM 6 INTENT SUBMITTED

Total Attach: 4 Files

General Comments

User Group	Comment	Comment Date
Engineer	Form 42 on file stating flowlines were abandoned 05/17/2017.	10/05/2017
Public Room	Document verification complete 07/20/17	07/20/2017

Total: 2 comment(s)