

State of Colorado
Oil and Gas Conservation Commission

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DE	ET	OE	ES
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SUNDRY NOTICE

Submit a signed original. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full in Comments or provide as an attachment. Identify Well by API Number; identify Oil and Gas Location by Location ID Number; identify other Facility by Facility ID Number.

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: 80217-3779 Email: cheryl.light@anadarko.com

Complete the Attachment
Checklist

OP OGCC

API Number : 05- 123 20769 00 OGCC Facility ID Number: 262600
 Well/Facility Name: CANNON Well/Facility Number: 15-31
 Location QtrQtr: NWNE Section: 15 Township: 2N Range: 66W Meridian: 6
 County: WELD Field Name: WATTENBERG
 Federal, Indian or State Lease Number: _____

Survey Plat		
Directional Survey		
Srvc Eqpmt Diagram		
Technical Info Page		
Other		

CHANGE OF LOCATION OR AS BUILT GPS REPORT

- Change of Location * As-Built GPS Location Report As-Built GPS Location Report with Survey

* Well location change requires new plat. A substantive surface location change may require new Form 2A.

SURFACE LOCATION GPS DATA Data must be provided for Change of Surface Location and As Built Reports.

Latitude _____ PDOP Reading _____ Date of Measurement _____
 Longitude _____ GPS Instrument Operator's Name _____

LOCATION CHANGE (all measurements in Feet)

Well will be: _____ (Vertical, Directional, Horizontal)

Change of **Surface** Footage **From** Exterior Section Lines:

660	FNL	1980	FEL
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Change of **Surface** Footage **To** Exterior Section Lines:

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Current **Surface** Location **From** QtrQtr NWNE Sec 15

Twp <u>2N</u>	Range <u>66W</u>	Meridian <u>6</u>
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New **Surface** Location **To** QtrQtr _____ Sec _____

Twp _____	Range _____	Meridian _____
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Change of **Top of Productive Zone** Footage **From** Exterior Section Lines:

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Change of **Top of Productive Zone** Footage **To** Exterior Section Lines:

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Current **Top of Productive Zone** Location **From** Sec _____

Twp _____	Range _____
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New **Top of Productive Zone** Location **To** Sec _____

Twp _____	Range _____
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Change of **Bottomhole** Footage **From** Exterior Section Lines:

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Change of **Bottomhole** Footage **To** Exterior Section Lines:

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Current **Bottomhole** Location Sec _____ Twp _____

Range _____

** attach deviated drilling plan

New **Bottomhole** Location Sec _____ Twp _____

Range _____

Is location in High Density Area? _____

Distance, in feet, to nearest building _____, public road: _____, above ground utility: _____, railroad: _____,

property line: _____, lease line: _____, well in same formation: _____

Ground Elevation _____ feet Surface owner consultation date _____

CHANGE OR ADD OBJECTIVE FORMATION AND/OR SPACING UNIT

<u>Objective Formation</u>	<u>Formation Code</u>	<u>Spacing Order Number</u>	<u>Unit Acreage</u>	<u>Unit Configuration</u>

OTHER CHANGES

REMOVE FROM SURFACE BOND Signed surface use agreement is a required attachment

CHANGE OF WELL, FACILITY OR OIL & GAS LOCATION NAME OR NUMBER

From: Name CANNON Number 15-31 Effective Date: _____

To: Name _____ Number _____

ABANDON PERMIT: Permit can only be abandoned if the permitted operation has NOT been conducted. Field inspection will be conducted to verify site status.

WELL: Abandon Application for Permit-to-Drill (Form2) – Well API Number _____ has not been drilled.

PIT: Abandon Earthen Pit Permit (Form 15) – COGCC Pit Facility ID Number _____ has not been constructed (Permitted and constructed pit requires closure per Rule 905)

CENTRALIZED E&P WASTE MANAGEMENT FACILITY: Abandon Centralized E&P Waste Management Facility Permit (Form 28) – Facility ID Number _____ has not been constructed (Constructed facility requires closure per Rule 908)

OIL & GAS LOCATION ID Number: _____

Abandon Oil & Gas Location Assessment (Form 2A) – Location has not been constructed and site will not be used in the future.

Keep Oil & Gas Location Assessment (Form 2A) active until expiration date. This site will be used in the future.

Surface disturbance from Oil and Gas Operations must be reclaimed per Rule 1003 and Rule 1004.

REQUEST FOR CONFIDENTIAL STATUS

DIGITAL WELL LOG UPLOAD

DOCUMENTS SUBMITTED Purpose of Submission: _____

RECLAMATION

INTERIM RECLAMATION

Interim Reclamation will commence approximately _____

Per Rule 1003.e.(3) operator shall submit Sundry Notice reporting interim reclamation is complete and site is ready for inspection when vegetation reaches 80% coverage.

Interim reclamation complete, site ready for inspection.

Per Rule 1003.e(3) describe interim reclamation procedure in Comments below or provide as an attachment and attach required location photographs.

Field inspection will be conducted to document Rule 1003.e. compliance

FINAL RECLAMATION

Final Reclamation will commence approximately _____

Per Rule 1004.c.(4) operator shall submit Sundry Notice reporting final reclamation is complete and site is ready for inspection when vegetation reaches 80% coverage.

Final reclamation complete, site ready for inspection. Per Rule 1004.c(4) describe final reclamation procedure in Comments below or provide as an attachment.

Field inspection will be conducted to document Rule 1004.c. compliance

Comments:

ENGINEERING AND ENVIRONMENTAL WORK

NOTICE OF CONTINUED TEMPORARILY ABANDONED STATUS

Indicate why the well is temporarily abandoned and describe future plans for utilization in the COMMENTS box below or provide as an attachment, as required by Rule 319.b.(3).

Date well temporarily abandoned _____ Has Production Equipment been removed from site? _____

Mechanical Integrity Test (MIT) required if shut in longer than 2 years. Date of last MIT _____

SPUD DATE: _____

TECHNICAL ENGINEERING AND ENVIRONMENTAL WORK

Details of work must be described in full in the COMMENTS below or provided as an attachment.

NOTICE OF INTENT Approximate Start Date 01/29/2019

REPORT OF WORK DONE Date Work Completed _____

- | | | |
|--|---|--|
| <input type="checkbox"/> Intent to Recomplete (Form 2 also required) | <input type="checkbox"/> Request to Vent or Flare | <input type="checkbox"/> E&P Waste Mangement Plan |
| <input type="checkbox"/> Change Drilling Plan | <input checked="" type="checkbox"/> Repair Well | <input type="checkbox"/> Beneficial Reuse of E&P Waste |
| <input type="checkbox"/> Gross Interval Change | <input type="checkbox"/> Rule 502 variance requested. Must provide detailed info regarding request. | |
| <input type="checkbox"/> Other _____ | <input type="checkbox"/> Status Update/Change of Remediation Plans for Spills and Releases | |

COMMENTS:

SAFETY PREP PROCEDURE

1. Provide 48 hour notice to COGCC prior to rig up per request on approved Form 6 (e.g. call field coordinator, submit Form 42, etc.). Notify Automation Removal Group at least 24 hours prior to rig move. Request they catch and remove plunger, isolate production equipment, and remove any automation prior to rig MIRU.
2. MIRU Slickline. Pull production equipment and tag bottom. Record tag depth in Open Wells. Gyro was run on 08/11/14. RDMO Slickline.
3. Prepare location for base beam equipped rig. Install perimeter fence as needed.
4. Verify COAs before RU.
5. Upon RU, check and record bradenhead pressure. If bradenhead valve is not accessible, re-plumb so that valve is above GL. Blow down bradenhead and re-check pressure the next day. Repeat until pressure stays at 0 psi.
6. MIRU WO rig. Kill well as necessary using biocide treated fresh water. Verify BOP and wellhead rating, inspect for appropriate API standards, pressure test BOP according to VWP BOP testing guidelines. ND WH. NU BOP. Unland tbg using unlanding joint and LD.
7. TOOH and SB 7400' 2-3/8" tbg. LD any remainder.
8. MIRU WL. PU and RIH with (4-1/2", 11.6#) gauge ring to 7860'. POOH.
9. PU and RIH with (4-1/2", 11.6#) CIBP and set at +/- 7850' (collars at 7830' & 7871'). POOH. RIH and dump 2 sx cement on CIBP. POOH.
10. PU and RIH with (4-1/2", 11.6#) CIBP and set at +/- 7400' (collars at 7373' & 7414'). POOH. RDMO WL.
11. TIH with 2-3/8" tbg to 7400'
12. Load hole with biocide treated fresh water and circulate all gas out of well. PT CIBP to 1000 psi for 15 minutes.
13. MIRU Cementers. Pump Niobrara Balance Plug: Pump 25 sx (6.9 bbl or 39 cf), assuming 15.8 ppg & 1.53 cf/sk. Volume based on 400' inside 4-1/2", 11.6# production casing with no excess. Cement will be from 7400'-7000'. Collect wet and dry samples of cement to be left on rig. RD Cementers.
14. Pull out of cement at a rate of 1 jt/min. TOOH, SB 1606' 2-3/8" tbg. LD remaining tbg.
15. TOOH, SB 6847' 2-3/8" tbg. LD remaining tbg.
16. MIRU WL. RIH and dump 2 sx cement on CIBP. POOH. PU and RIH with two 3-1/8" perf guns with 3 spf, min 0.5" EHD, 120° phasing. Shoot 2' of squeeze holes at 6900' and 4' of squeeze holes at 6787'. RDMO WL.
17. PU and TIH with (4-1/2", 11.6#) CICR on 2-3/8" tbg. Set CICR at 6847'.
18. Establish circulation to surface for a minimum 4 hours with biocide treated fresh water, and pump 100 bbls to clean up hole. Max pump pressure is 2177 psi with fresh water at 2 bpm. If unable to circulate at that pressure, contact engineer.
19. RU Cementers. Pump 10 bbls (min) of pre-flush, followed by 5 bbls fresh water spacer. Pump Niobrara Squeeze: 40 sx (11 bbl or 62 cf) Class G cement with 0.25 lb/sk polyflake, assuming 15.8 ppg & 1.53 cf/sk. Max pump pressure is to be 1552 psi at 2 bpm with a full column of cement. Underdisplace by 3 bbls. Volume is based on 53' below the CICR inside 4-1/2", 11.6# production casing with no excess, 113' in the 4-1/2", 11.6# annulus assuming 7.88" bit size with 40% excess and 192' on top of the CICR to cover top perfs. Collect wet and dry samples of cement to be left on rig. RD Cementers.
20. Pull out of cement at a rate of 1 jt/min. TOOH to 6155'. Reverse circulate to ensure no cement is left in the tbg.
21. TOOH and SB 1606' of 2-3/8" tbg. LD stinger, and remaining tbg.
22. MIRU WL. PU and RIH with (4-1/2", 11.6#) CIBP and set at +/- 4338' (collars at 4306' & 4346'). POOH. RIH and dump 2 sx cement on CIBP. POOH. RDMO WL.
23. MIRU WL. PU and RIH with two 3-1/8" perf guns with 3 spf, min 0.5" EHD, 120° phasing. Shoot 2' of squeeze holes at 1846' and 4' of squeeze holes at 1546'. RDMO WL.
24. PU and TIH with (4-1/2", 11.6#) CICR on 2-3/8" tbg. Set CICR at 1606'.

CASING AND CEMENTING CHANGES

Casing Type	Size	Of	/	Hole	Size	Of	/	Casing	Wt/Ft	Csg/LinTop	Setting Depth	Sacks of Cement	Cement Bottom	Cement Top

H2S REPORTING

Data Fields in this section are intended to document Sample and Location Data associated with the collection of a Gas Sample that is submitted for Laboratory Analysis.

Gas Analysis Report must be attached.

H2S Concentration: _____ in ppm (parts per million)

Date of Measurement or Sample Collection _____

Description of Sample Point:

Absolute Open Flow Potential _____ in CFPD (cubic feet per day)

Description of Release Potential and Duration (If flow is not open to the atmosphere, identify the duration in which the container or pipeline would likely be opened for servicing operations.):

Distance to nearest occupied residence, school, church, park, school bus stop, place of business, or other areas where the public could reasonably be expected to frequent: _____

Distance to nearest Federal, State, County, or municipal road or highway owned and principally maintained for public use: _____

COMMENTS:

Best Management Practices

No BMP/COA Type

Description

Operator Comments:

- 25. Establish circulation to surface for a minimum 4 hours with biocide treated fresh water, and pump 100 bbls to clean up hole. Max pump pressure is 571.2 psi with fresh water at 2 bpm. If unable to circulate at that pressure, contact engineer.
- 26. RU Cementers. Pump 10 bbls (min) of pre-flush, followed by 5 bbls fresh water spacer. Pump Squeeze: 115 sx (31.8 bbl or 179 cf) Class G cement with 0.25 lb/sk polyflake, assuming 14 ppg & 1.55 cf/sk. Max pump pressure is to be 295 psi at 2 bpm with a full column of cement. Underdisplace by 3 bbls. Volume is based on 240' below the CICR inside 4-1/2", 11.6# production casing with no excess, 300' in the 4-1/2", 11.6# annulus assuming 7.88" bit size with 100% excess and 191' on top of the CICR to cover top perms. Collect wet and dry samples of cement to be left on rig. RD Cementers.
- 27. Pull out of cement at a rate of 1 jt/min. TOO H to 915'. Reverse circulate to ensure no cement is left in the tbg.
- 28. TOO H and SB ' of 2-3/8" tbg. LD stinger, and remaining tbg.
- 29. PU and TIH with 3-7/8" bit and appropriate number of 3-1/2" drill collars on 2-3/8" tbg. Time drill cement above CICR (~64'). If ROP is faster than 2 min/ft, SD and WOC 24 hours and repeat. Drill down to CICR located at 1606'. Pressure test top holes to 500 psi for 15 minutes. If test holds, drill CICR and cement past lower perf at 1846' and pressure test holes to 500 psi for 15 minutes. If pressure does not hold, contact engineer.
- 30. TOO H and SB tbg, LD drill collars, LD bit.
- 31. MIRU WL and run CCL-GR-CBL-VDL from +/- 2000' to surface. Forward to Engineering. In addition to normal handling, of logs/job summaries, email copies of all cement job logs/job summaries and invoices to DJVendors@anadarko.com within 24 hours of completion of the job.
- 32. TIH with 2-3/8" tbg to 1900'
- 33. Load hole with biocide treated fresh water and circulate all gas out of well.
- 34. MIRU Cementers. Pump Fox Hills Balance Plug: Pump 25 sx (6.9 bbl or 39 cf), assuming 14 ppg & 1.55 cf/sk. Volume based on 400' inside 4-1/2", 11.6# production casing with no excess. Cement will be from 1900'-1500'. Collect wet and dry samples of cement to be left on rig. RD Cementers.
- 35. Pull out of cement at a rate of 1 jt/min. TOO H and LD tbg.
- 36. ND BOP, NU 7-1/16", 5,000 psi flanged tubing head adaptor w/ new 2-1/16", 5,000 psi flanged master valve. Replace packing on all gland nuts/lockdown pins with new packing. Replace tubing hanger seals with new o-rings. Put new R46 gasket on tubing head. Make sure all wellhead valves are rated to 5,000 psi and all nipples are XXH. Torque and test WH. Document wellhead components in an OpenWells wellhead report.
- 37. RU hydrotester. Install 2-3/8" pup joint above master valve. Hydrotest wellhead first to 500 psi for a low pressure test. Then, hydrotest wellhead to 5,000 psi from below tubing head through master valve for 15 minutes. No leakoff will be accepted. Please record results of pressure test. RD hydrotester.
- 38. Secure wellhead, clean up location. RDMO WO rig.

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: Staff Regulatory Analyst Email: DJREGULATORY@ANADARKO.COM Date: 1/22/2019

Based on the information provided herein, this Sundry Notice (Form 4) complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved: McCoy, Diane Date: 1/31/2019

CONDITIONS OF APPROVAL, IF ANY:

COA Type	Description
	1) Prior to starting repair work 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 before pumping any cement. The Form 17 shall be submitted within 10 days of the test. 2) After placing CIBP at 7400' perform a pressure test to document mechanical integrity. This pressure test should be charted. The additional cement referenced shall be placed as indicated. 3) Within 30 days of completing well work submit a Form 5A to document plugs placed in wellbore. 4) Submit a Form 4 for TA status.

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineer	<p>Deepest water well within one mile = 860' DWR's aquifer evaluation tool lists the depth of the Laramie-Fox Hills from 752' to 479' and the Lower Arapahoe from 111' to 42'.</p> <p>Operator does not intend to return this well to production. This type of work is best documented with a Form 6 subsequent. If plan is to remove the plugs this work must be documented with a Form 5 and a copy of all logs run submitted. If the plan is to plug this well within six months, submit a Form 6 intent to finish the plugging procedure and then document all work with the Form 6 subsequent.</p>	01/25/2019

Total: 1 comment(s)

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
401912768	SUNDRY NOTICE APPROVED-REPAIR
401912780	OTHER
401912781	WELLBORE DIAGRAM
401924287	FORM 4 SUBMITTED

Total Attach: 4 Files