

**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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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 19840 00 OGCC Facility ID Number: 256356
 Well/Facility Name: HSR-CANNON LAND Well/Facility Number: 6-3A
 Location QtrQtr: SENW Section: 3 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:

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

Current **Surface** Location **From** QtrQtr SENW Sec 3

New **Surface** Location **To** QtrQtr _____ Sec _____

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

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

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

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

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

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

Current **Bottomhole** Location Sec _____ Twp _____ Range _____

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 _____

FNL/FSL		FEL/FWL	
2124	FNL	1780	FWL
Twp <u>2N</u>	Range <u>66W</u>	Meridian <u>6</u>	
Twp _____	Range _____	Meridian _____	
			**
Twp _____	Range _____		
Twp _____	Range _____		
			**

** attach deviated drilling plan

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 09/13/2017

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 - Annular Fill (Bradenhead)

1. Well needs a single stage annular fill from 1400' - 500' to mitigate bradenhead issues.
2. Well has gyro survey on 08/31/2011.
3. MIRU Slickline. Pull production equipment and tag bottom. Record tag depth in OpenWells. RD Slickline.
4. Prepare location for base beam equipped rig. Install perimeter fence as needed.
5. 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. Spot 25 jts of 2-3/8" 4.7# J-55 tbg and 1400' of 1.66" 2.33# J-55 tbg.
7. Kill well as necessary with biocide treated freshwater. Attach a hardline from the bradenhead/surface casing valve to a flowback tank and blow down any bradenhead pressure. If pressure does not blow down within 1 hour contact engineer, otherwise proceed.
8. ND wellhead. NU BOP.
9. PU 8-10' pup joint with TIW valve on top and screw into the tbg hanger. Unseat and LD the landing joint.
10. MIRU EMI services. EMI 2-3/8" tbg (landed at 7850') while TOO and tally while standing back. Lay down joints that have greater than 35% penetration or wall loss. Replace all joints that fail EMI testing. Document joint numbers and depth of bad tubing and create a Production Equipment Failure report in OpenWells. RDMO EMI services.
11. PU and RIH with (4.5", 11.6#) Bit and Scraper on 2-3/8" tbg to 6710'. TOO and SB all 2-3/8" tbg. LD Bit and Scraper.
12. PU 10,000 psi rated from above and below RBP (4.5", 11.6#), retrieving head, and 2-3/8" tbg. Set RBP at +/- 6700'.
13. Release tbg from RBP and circulate all gas out of the hole. Pumping biocide treated freshwater, pressure test RBP and production casing to 1000 psi for 15 minutes. If pressure test passes, proceed; otherwise contact engineering.
14. Dump 2 sx sand on top of RBP. TOO and SB all 2-3/8" tbg.
15. ND BOP. ND wellhead. Un-land casing using a casing spear, not a lifting sub. Max pull shall be 100,000#. If unable to unland, contact Engineering. NU double entry flange and BOP. Install 1.66" pipe rams.
16. PU 1.66" 2.33# J-55 10 RD tubing and TIH between the 4-1/2" production casing and 8-5/8" surface casing/open hole to 1400' while continuously circulating. Make 2 sweeps of DF 20-20 while TIH. (annular volume ~ 75 bbls @ 1400') if unable to make it to 1400' call Engineering.
17. Circulate with the rig pump to condition the hole or until well is completely dead. Pump a final sweep of DF 20-20 at 1400' (annular volume 75 bbls). Circulate a minimum of 1.5 annular volumes and ensure well is dead. If not able to circulate dead, contact engineering.
18. RU Cementers. Establish circulation and pump 20 bbls (5 bbls water, 10 bbls sodium silicate and 5 bbls water) spacer, 260 sx GasBLOK (301.6 cf, 53.7 bbls) 15.8 ppg 1.16 yield. Calculations based on 639' in annulus between 7.88" bit size and 4.5" production casing with 60% excess and 261' in the annulus between 8-5/8" 24# casing and 4.5" production casing with no excess. Attempt to cement from 1400' - 500'. Plan for 3 hour pump time.
19. TOO with 1.66" 2.3# J-55 10 RD IJ tubing until EOT is at 425' and LD extra tbg. Circulate with freshwater 1.5 times the hole volume or until returns are clean. RDMO Cementers.
20. TOO and LD all 1.66" 2.3# tbg. ND BOP and double entry flange. Use 4-1/2" casing spear to re-land 4-1/2" casing. NU WH and BOP. Install 2-3.8" pipe rams. Shut well in and WOC for a minimum of 24 hours.
21. MIRU WL and run CCL-GR-CBL-VDL from +/-6600' (below the original TOC) to surface. If the cement is not at or above 710' (50' inside casing shoe), contact engineer. RDMO WL. 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 the completion of the job.
22. PU and TIH with retrieving head and 2-3/8" tbg.

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:

23. Circulate sand off of RBP. Pressure test casing to 1000 psi for 15 minutes. Latch onto and release RBP at 6700'. Circulate gas out of hole. TOOH and SB all 2-3/8" tbg, LD RBP.
 24. TIH with 2-3/8" NC, 2-3/8" XN nipple, and tbg to surface. Land tubing at +/- 7850'.
 25. RU rig lubricator. Broach tubing to XN seating nipple. RD rig lubricator. ND BOP.
 26. Install 7-1/16" flanged 5000 psi tubing head adaptor with studded top, 2-1/16" flanged 5000 psi master valve, flanged 5000 psi 2-1/16" plunger lubricator (side outlets threaded). Make sure all wellhead valves are rated to 5,000 psi and all nipples are XXH. Document wellhead components in an OpenWells wellhead report.
 27. Install 2-1/16" pup joint above the master valve. Pressure test the tubing head from below the tubing head through the master valve to 5,000 psi using hydrotester. If wellhead does not pressure test, replace wellhead/wellhead valves as necessary with 5,000 psi rated equipment.
 28. NU WH. RDMO WO rig. Return well to production team.

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 Email: DJREGULATORY@ANADARKO.COM Date: 9/6/2017

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

COGCC Approved: Wolfe, Stephen Date: 10/10/2017

CONDITIONS OF APPROVAL, IF ANY:

COA Type

Description

	<p>1) Prior to starting repair work, a bradenhead test shall be performed and samples collected. The Form 17 shall be submitted within 10 days of the test. The Operator will collect bradenhead and production gas samples for laboratory analysis. The gas analysis shall be for composition and stable carbon isotopes. The compositional analysis at a minimum shall include Hydrogen, Argon, Oxygen, Carbon Dioxide, Nitrogen, Methane, Ethene, Ethane, Propene, Propane, Isobutane, Butane, Isopentane, Pentane, Hexanes +, Specific Gravity and British Thermal Units (BTU). Stable carbon isotope analysis shall include delta DC1, delta 13C1, delta 13C2, delta 13C3, delta 13C4, delta 13NC4, delta 13IC5 (if possible), delta 13NC5 (if possible), delta 13C6+ (if possible) and stable isotopes of CO2 if possible. Collect samples of liquids in the Bradenhead, analysis of the liquid samples shall be conducted to provide an evaluation of the liquid source. Submit for the laboratory analysis of major anions (chloride, carbonate, bicarbonate, and sulfate), cations (sodium, potassium, calcium, and magnesium) total dissolved solids (TDS), BTEX, DRO, GRO and dissolved gasses (RSK 175). If there is a limited amount of water available then anions, cations and BTEX should be given first priority. Copies of all final laboratory analytical results shall be provided to the COGCC within three months of collecting the samples in an approved electronic data deliverable format.</p> <p>2) Per operator request the TOC has been changed to 861'. Fill is now planned for 1400 -861'.</p> <p>3) The additional cement specified shall be placed as indicated and in accordance with Rule 317.j. The placed cement shall be verified with a CBL and documented with a Form 5 SR.</p> <p>4) Submit gyro survey run on 8/31/2011 with the Form 5 SR.</p>
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General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
		Stamp Upon Approval

Total: 0 comment(s)

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
401395580	SUNDRY NOTICE APPROVED-REPAIR
401395584	OTHER
401395585	WELLBORE DIAGRAM
401424802	FORM 4 SUBMITTED

Total Attach: 4 Files