

# 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: <b>401725259</b>			
Date Received: <b>08/06/2018</b>			

## 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	08402	00	OGCC Facility ID Number:	240614			
Well/Facility Name:	GERALD PICKERING GU			Well/Facility Number:	1				
Location QtrQtr:	SWNE	Section:	29	Township:	1N	Range:	65W	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 **SWNE** Sec **29**

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 \_\_\_\_\_

New **Bottomhole** Location Sec \_\_\_\_\_ Twp \_\_\_\_\_

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	
1650	FNL	1480	FEL
Twp 1N	Range 65W	Meridian 6	
Twp	Range	Meridian	
			**
Twp	Range		
Twp	Range		
			**
			** attach deviated drilling plan

**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 GERALD PICKERING GU Number 1 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 08/13/2018

☐ 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 - CBL, Nio Squeeze, Fox Hills Squeeze (Aquifer), Packer, WH Change

1. Well needs a CBL to confirm cement coverage from Nio top to surface. Well needs possible Nio squeeze above Nio top, fox hills squeeze from 1315' - 1000' to cover aquifers, packer, and WH change. CBL results will impact procedure going forward. Please confirm with engineering that the squeeze locations are correct.
2. Well has gyro survey on 5/15/2014.
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. Evaluate location for enclosed flare or open-top tanks as described in "Flaring During P&A Operations" SOP on file with COGCC.
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.
7. Kill well as necessary with biocide treated freshwater. ND WH, NU BOP.
8. PU 8-10' pup joint with TIW valve on top and screw into the tbq hanger. Unseat and LD the landing joint.
9. MIRU EMI services. EMI 2-3/8" tbq (landed at 7874') while TOO H 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.
10. MIRU WL. PU and RIH with (4.5", 11.6#) Gauge Ring to 7075'. POOH.
11. PU and RIH with (4.5", 11.6#) CIBP. Set CIBP at +/- 7065'. POOH. RDMO WL.
12. Pumping biocide treated fresh water, circulate gas out, pressure test CIBP and production casing to 1000 psi for 15 minutes. If test fails, contact Engineering.
13. Run CCL-GR-CBL-VDL from +/- 7065' to surface to confirm squeeze locations. Run from entire log with one pass at 500# and one pass at 0#. Current CBL squeeze location is 1315' and 6995'. Forward resulting logs 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. Note that squeeze hole locations and cement volume may vary depending on CBL results. May also run packer to test injection first.
14. PU and RIH with two 1' 3-1/8" perf guns with 3 spf, 0.50" EHD, 120° phasing. Shoot 1' of squeeze holes at 6995' and 6595'. POOH. RD WL.
15. PU and TIH with (4.5", 11.6#) CICR on 2-3/8" tbq while hydrotesting to 4000 psi and set at +/- 6655'. Establish circulation through squeeze holes with biocide treated freshwater and circulate a minimum of 200 bbls through squeeze holes.
16. RU Cementers. Pump Niobrara suicide squeeze: Pump 10 bbls sodium silicate and 4 bbls of water followed by 115 sx (176 cf). Underdisplace by 3 bbls. Cement will cover 6995'-6595' on the back side. Volume is based on 400' in 7-7/8" OH with 40% excess, 340' below retainer in 4-1/2" production casing with no excess and 190' on top of CICR in 4.5" casing. RDMO cementers.
17. Slowly pull out of cement and PUH to 6200' and reverse circulate tbq clean to ensure no cement is left in tbq. TOO H, SB all tbq. LD stinger. WOC per cement company guidelines.
18. MIRU WL. PU and RIH with two 1' 3-1/8" perf guns with 3 spf, 0.50" EHD, 120° phasing. Shoot 1' of squeeze holes at 1315' and 1' of squeeze holes at 1000'. POOH. RD WL.
19. PU and TIH with (4.5", 11.6#) CICR on 2-3/8" tbq while hydrotesting to 4000 psi and set at +/- 1060'. Establish circulation through squeeze holes with biocide treated freshwater and circulate a minimum of 150 bbls through squeeze holes. Max pressure with water shall be 545 psi.

**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:**

20. MIRU Cementing. Establish circulation and pump 20 bbls (5 bbls of water, 10 bbls of sodium silicate, and 5 bbls water) spacer, 95 sx Fox Hills suicide Squeeze cement (147 cf, 26.2 bbls) 14 ppg, 1.55 yld. Underdisplace by 3 bbl. Calculations based on 315' in the annulus between 7.88" hole and 4.5" casing with 100% excess, 255' below CICR inside production casing and 3 bbl on top of CICR. Attempt to cement from 1315' to 1000'. Max pressure with full column of cement shall be 379 psi.

21. PUH to 275' and reverse circulate tbq clean to ensure no cement is left in tbq. TOOH, SB all tbq. LD stinger. WOC per cement company guidelines.

22. PU and TIH with 3-7/8" bit and appropriate number of 3-1/2" drill collars on 2-3/8" tbq. Time drill cement above CICR (~867'). If ROP is faster than 2 min/ft, SD and WOC 24 hours and repeat. Drill down to CICR located at +/- 1060' and pressure test to 500 psi for 5 minutes.. Drill CICR and cement past lower perf at 1315' and pressure test to 500 psi for 5 minutes. Repeat for CICR at 6655', pressure testing first the top holes above CICR and then the bottom perfs.

23. TOOH and SB tbq, LD drill collars, LD bit.

24. MIRU WL and run CCL-GR-CBL-VDL from +/-7065' to surface. 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.

25. PU and TIH with bit on 2-3/8" tbq. Drillout CIBP at +/- 7065' and chase down to 8265'.

26. TOOH. SB all tbq. LD bit.

27. PU 2-3/8" NC, 2-3/8" XN nipple, 4-1/2" Arrowset AS-1X packer (10k rated above and below) to be set at 7774', and 2-3/8" 4.7# J-55 tbq to surface.

28. Set packer at +/- 7774'. Load backside with packer fluid and test to 500 psi.

29. RU rig lubricator. Broach tubing to XN seating nipple. RD rig lubricator.

30. MIRU WL. PU and RIH with tubing plug. Set 2-3/8" tbq plug in XN nipple below packer. POOH. RDMO WL.

31. ND BOP. Install 7-1/16" flanged 5000 psi tubing head adaptor with studed top, 2-1/16" flanged 5000 psi master valve, flanged 5000 psi 2-1/16" plunger lubricator (side outlets threaded). 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.

32. RU hydrotester. Install 2-1/16" pup joint above the master valve. Hydrotest WH 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. If wellhead does not pressure test, replace wellhead/wellhead valves as necessary with 5,000 psi rated equipment.

33. 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: Staff Regulatory Analyst Email: DJREGULATORY@ANADARKO.COM Date: 8/6/2018

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: 8/23/2018

**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) No CBL on file with COGCC, run CBL prior to pumping any cement to confirm current cement in wellbore. If needed, provide remedial cement for aquifer coverage from 1300' to at least 1000' and for formation coverage from TD to at least 200' above Niobrara top (6800'). The placed cement shall be verified with a CBL and documented with a Form 5.

3) Submit gyro survey data to COGCC.

**General Comments****User Group****Comment****Comment Date**

		Stamp Upon Approval
--	--	---------------------

Total: 0 comment(s)

### **Attachment Check List**

<b><u>Att Doc Num</u></b>	<b><u>Name</u></b>
401725259	SUNDRY NOTICE APPROVED-REPAIR
401725262	OTHER
401725263	WELLBORE DIAGRAM
401741549	FORM 4 SUBMITTED

Total Attach: 4 Files