

# 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	31413	00	OGCC Facility ID Number:	416563			
Well/Facility Name:	WARDELL H			Well/Facility Number:	19-33D				
Location QtrQtr:	NWSW	Section:	19	Township:	3N	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 **NWSW** Sec **19**

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 **19**

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 **19** Twp **3N**

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	
1684	FSL	950	FWL
Twp 3N	Range 65W	Meridian 6	
Twp	Range	Meridian	
1333	FSL	54	FWL
Twp 3N	Range 65W		
Twp	Range		
1334	FSL	52	FWL
			**

\*\* 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 WARDELL H Number 19-33D 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    10/17/2014

☐ 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:

1 Well has Gyro  
2 Call IOC (970.506.5980) before rig up to isolate production equipment. Catch and remove plunger. Enter plunger into PLUNGER DATABASE. Call 24 hours prior to the rig moving onto location so that any automation equipment can be removed prior to the rig showing up. Install fence if needed. If surface casing is not accessible at ground level, re-pipe so valve is at ground level.  
3 Check for surface casing pressure, bleed off as necessary. If pressure does not bleed off report findings to Evans engineering office.  
4 Level location for base beam rig.  
5 MIRU Cable slickline service company. RIH to retrieve production equipment. RIH and tag for fill, last cleanout unknown on PBMD is 7626'. Note tagged depth in OpenWells.  
6 MIRU Workover (WO) Rig. Control well with biocide treated water. Nipple Down (ND) Wellhead (WH) and Nipple Up (NU) Blow Out Preventer Equipment (BOP). Function test and document BOP.  
7 Spot 10 jnts of 2-3/8"/4.7#/J-55 tbg for cleanout or replacement. Cleanout to 7,626'.  
8 MIRU EMI services. EMI 2-3/8" TBG on TOO H and tally while standing back. Lay down joints with wall loss or penetrations > 35%. Replace bad joints as necessary. Note joint number and depth of bad tubing and create Production Equipment Failure Report in OpenWells. RDMO EMI services.  
9 PU TIH with 2-3/8" TBG and RBP rated to 10,000 psi (4-1/2", 11.6#, M-80) and set at +/- 7140' (reference Superior Wireline CBL dated 4/7/2011 – collars are at 7,119' and 7,161').  
10 Circulate out any gas and load hole biocide treated water. Pressure test csg and RBP to 1,000 psi using water w/ biocide for 15 minutes. If pressure holds, MIRU hydrotester. Pressure test to 5,000 psi for 15 minutes. If test fails contact Evans for instructions. Dump 2 sacks of sand onto RBP.  
11 Unland and TOO H with 2-3/8" and SB.  
12 ND BOP. Unland 4-1/2" production casing and NU double entry flange. 2011 vintage casing, don't pull with more than 165,000lbs.  
13 PU 56 jnts of 1-1/4"/2.33/IJ tbg. Run in annulus with burn shoe or mule shoe on 1-1/4" tbg to 1700' or as deep as possible while circulating if running into tight spots. Starting at +/- 600' stop every 4 jnts and circulate for 1 hour while working 1-1/4" tbg and using a power swivel at low to moderate rpm. Record these depths and as many details as possible in Open Wells for post cementing analysis. Contact engineer after cementing to review details of this experimental cleanout. Contact engineering if unable to make depth.  
14 Once EOT of 1-1/4" is at 1700' circulate for another 4 hours minimum.  
15 Order and pump 25 bbls of 10# mud from Imperial. Don't displace with any fresh water to prevent unbalanced flow back.  
16 Pull up annulus with 1-1/4" tbg so EOT at +/- 1,400'.  
17 MIRU cementing services.  
18 Mix & pump as follows: 20 bbls SAP mud flush (mud cake removal chemical solution), 5 bbl fresh water spacer, 20 bbls SMS, 10 bbl fresh water spacer, 260 sks Type III cement, 1/4#/sk Cello Flake, mixed at 14.8 ppg and yield of 1.33 cuft/sk (CaCl<sub>2</sub> amounts as determined by cementing service company for a 3 hour pumping time at 80° F) for a total of 61.6 bbl of cement. Design is for coverage from 1400' to 779' in 9.5" Borehole (has no caliper log) and 115' in 8.1" with a 30% excess. See Calculation if necessary.  
19 POOH with 1-1/4" tbg to +/- 550 and circulate until clean.  
20 POOH and SB tbg. ND double entry flange and Re-Land the 4-1/2" production casing.  
21 PU and NU 5,000 psi rated tubing head. NU BOP.  
22 Shut in and WOC for 24 hrs minimum.  
23 MIRU Wireline services. PU and RIH w/ CCL-CBL-VDL tools and log from 1500' to surface. NOTE: IF TOC IS BELOW 760' OR POOR BOND, CONTACT EVANS ENGINEERING. Email logs to Jacob.Barker@Anadarko.com. Email copies of logs, summaries and invoices to rscDJVendors@Anadarko.com within 24hrs.  
24 POOH, RDMO Wireline service company.

## 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**

<b><u>No</u></b>		<b><u>BMP/COA Type</u></b>	<b><u>Description</u></b>

**Operator Comments:**

25 PU and TIH with RBP retrieving head and 2-3/8" tbg (4.7#/J-55/8rd EUE). Clean off RBP. Latch onto RBP and release. TOOH with tbg and RBP. SB tbg and laydown RBP.  
26 PU and TIH with 2-3/8" NC, 2-3/8" XN profile nipple (make sure nipple is properly input into OpenWells), 2-3/8" tbg. Land with EOT at +/- 7460' (1 jnt above top Codell perms),  
27 RU rig lubricator. Broach tbg to seating nipple. RD rig lubricator.  
28 PU 7-1/16" x 2-1/16" EUE 5,000 psi tubing head adaptor, a flanged 5,000 psi master valve with EUE companion flange on top, and a 2-1/16 EUE flanged lubricator. ND BOP and NU new 5,000 psi flanged WH assembly with EUE flanged 5,000 psi tubing head adaptor, master valve and lubricator. Make sure all valves are rated to 5,000 psi (2 csg valves, and master valve)  
29 Install 2-3/8" pup joint above master valve. Pressure test TBG head from below TBG head through master valve w/ hydrotester to 5,000 psi.  
30 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: 10/3/2014

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

COGCC Approved: SCHLAGENHAUF, MARK Date: 10/13/2014

**CONDITIONS OF APPROVAL, IF ANY:****COA Type****Description**

	The additional cement referenced shall be placed as indicated and comply with Rule 317.i. The placed cement shall be verified with a CBL and documented with a Form 5 Drilling Completion Report.
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**General Comments****User Group****Comment****Comment Date**

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Total: 0 comment(s)

**Attachment Check List****Att Doc Num****Name**

400701303	FORM 4 SUBMITTED
400701305	OTHER

Total Attach: 2 Files