

**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 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 Range 65W

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	
<u>1684</u>	<u>FSL</u>	<u>950</u>	<u>FWL</u>
_____	_____	_____	_____
Twp <u>3N</u>	Range <u>65W</u>	Meridian <u>6</u>	
Twp _____	Range _____	Meridian _____	
<u>1333</u>	<u>FSL</u>	<u>54</u>	<u>FWL</u>
_____	_____	_____	_____
Twp <u>3N</u>	Range <u>65W</u>		
Twp _____	Range _____		
<u>1334</u>	<u>FSL</u>	<u>52</u>	<u>FWL</u>
_____	_____	_____	_____

\*\* attach deviated drilling plan

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Comments:

[Empty box for 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 TOOH 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 TOOH 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 (CaCl2 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:

<b><u>Best Management Practices</u></b>		
<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:**

<b><u>COA Type</u></b>	<b><u>Description</u></b>
	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.

**General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>

Total: 0 comment(s)

**Attachment Check List**

<b><u>Att Doc Num</u></b>	<b><u>Name</u></b>
400701303	FORM 4 SUBMITTED
400701305	OTHER

Total Attach: 2 Files