

**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 21336 00 OGCC Facility ID Number: 266133  
 Well/Facility Name: WILSON Well/Facility Number: 3-34A  
 Location QtrQtr: NENW Section: 34 Township: 3N Range: 67W 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 NENW Sec 34

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	
<u>529</u>	<u>FNL</u>	<u>1923</u>	<u>FWL</u>
_____	_____	_____	_____
Twp <u>3N</u>	Range <u>67W</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 03/09/2016

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:

### Step Description of Work

- 1 Well needs a single stage annular fill from 1096' to 516' due to high Bradenhead pressure.
- 2 Gyro was ran on 9/3/14.
- 3 Call Foreman and Field Coordinator 24 hours before rig up to communicate activity and to isolate any production equipment (remove plunger, wellhead automation, etc.). Prepare to move base beam rig onto location. Install perimeter fence if needed.
- NOTE: This well has a 2-stage plunger system located @ 4403'
- 4 Check and report surface casing pressure. If valves are not accessible at ground level, re-plumb so valve is at ground level.
- 5 MIRU slickline. RIH to retrieve production equipment (2-stage plunger system in well) and tag for fill (Last tag was @ 7555' on 5/10/2010). Note tagged depth in OpenWells. RDMO slickline.
- 6 MIRU WO rig. Spot 1500' (~52 jts) of 1.66" 2.33# J-55 10RD IJ tbg.
- 7 Kill well as necessary with water and biocide. Attach a hardline from the bradenhead/surface casing valve to a flowback tank and blow down any bradenhead pressure. (Last Form 17 was performed on 3/25/15. The initial bradenhead pressure was 244 psi and blew down to 95 psi. The surface casing produced 20 gallons of condensate during the test, which was stopped due to production of liquids. Pressure built back up to 158 psi in 15 min). 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. Back out the lock down pins and pull up on the tubing string to break any possible sand bridges. Unseat and LD the landing joint.
- 10 MIRU EMI services. EMI 2-3/8" tbg (235 joints landed at 7307') while TOO H and tally while standing back. Lay down any 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 10,000 psi rated from above and below RBP (4.5", 11.6#, I-80), retrieving head, and 2-3/8" tubing. Set RBP at +/- 6900' (collars located at 6879' and 6921').
- 12 Release tbg from RBP and circulate all gas out of the hole. Pumping water with biocide, pressure test RBP and production casing to 5000 psi for 15 minutes. If pressure test passes, proceed; otherwise contact engineering. (Last PT to 6000 psi on 4/15/08).
- 13 Circulate 2 sx of sand on top of RBP and TOO H and SB 2-3/8" tubing.
- 14 ND BOP. ND wellhead. Screw 4-1/2" pup joint into production casing and un-land 4-1/2" production casing. NU double entry flange and BOP. Install 1.66" pipe rams.
- 15 PU 1500' of 1.66" 2.33# J-55 10RD IJ tubing and TIH between the 4-1/2" production casing and 8-5/8" surface casing/open hole to 1500' while continuously circulating. Make 2 sweeps of DF2020 while TIH. (annular volume ~ 90 bbl @ 1500') If unable to make it to 1500' call Evans Engineering.
- 16 Circulate with the rig pump to condition the hole or until well is completely dead. Pump a final sweep of DF2020 at 1500' (annular volume ~ 90 bbls). Circulate a minimum of 1.5 times the annular volume and ensure well is dead. If not able to circulate dead, contact engineering.
- 17 Spot 20 bbl of 10.0 ppg mud and TOO H to 1096'.
- 18 MIRU cementing services. Establish circulation and pump 30 bbl (5 bbls of water, 20 bbls of sodium metasilicate, and 5 bbls water) spacer, 125 sx (217.5 cuft) Control Set 'C' cement mixed at 13.5ppg 1.74 cuft/sx yield. (Based on estimated 8.5" hole size + 40% excess from 1096'-616' and from 616' to 516' between 8-5/8" 24# surface casing and 4-1/2" 11.6# production casing). Attempt to cement from 1096'-516'. Plan for 3 hour pump time.
- 19 TOO H with 1.66" 2.3# J-55 10RD IJ tubing until EOT is at 300' and LD extra tbg. Circulate with freshwater 1.5 times the hole volume or until returns are clean. RDMO cementing services.

**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 TOOH and LD all 1.66" 2.3# J-55 10RD IJ tubing. ND BOP and double entry flange. Use 4-1/2" pup joint to re-land 4-1/2" casing. NU BOP. Install 2-3/8" pipe rams. Shut well in and WOC for a minimum of 24hrs.  
21 MIRU wireline and run CCL-GR-CBL-VDL from +/- 3500' (below the original TOC) to surface. If the cement is not at or above 516', 100' over the surface casing shoe, contact engineer. RDMO wireline services. 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 hrs of the completion of the job.  
22 PU and TIH with retrieving head and 2-3/8" tubing. Circulate sand off of RBP. Latch onto and release RBP at +/- 6900'. Circulate gas out of hole. TOOH standing back all 2-3/8" tubing and LD RBP.  
23 PU 2-3/8" NC, 2-3/8" XN nipple (be sure to correctly input into OpenWells), 2-3/8" 4.7# J-55 tbg, 2-3/8" X-Profile nipple @ +/- 4405' (depending on where 2-Stage plunger system was found), and 2-3/8" 4.7# J-55 tbg to surface. Circulate and clean out fill down to 7591' (Top of sand plug) if necessary and land EOT at +/- 7291' (1 jt above top Codell perf).  
24 RU rig lubricator. Broach tubing to XN seating nipple. RD rig lubricator. ND BOP.  
25 Install 7-1/16" flanged 5000 psi tubing head adaptor with studded top, 2-1/16" flanged 5000 psi master valve, flanged 5000 psi 2-3/8" 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.  
26 Install 2-3/8" 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.  
27 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: 3/1/2016

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: 3/17/2016

**CONDITIONS OF APPROVAL, IF ANY:**

<b>COA Type</b>	<b>Description</b>
	<p>1) Please submit gyro survey data from 2014.                      2) Submit CBL run after annual fill is completed to verify a cement bottom of 660' or deeper.</p>
	<p>Before starting well workover, collect both production and bradenhead gas samples for laboratory analysis of gas composition and stable carbon isotopes. The compositional analysis at a minimum shall include Hydrogen, Argon, Oxygen, Carbon Dioxide, Nitrogen, Carbon Monoxide, 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 13C5 (If Possible), delta 13NC5 (If Possible), delta 13C6+ (If Possible). And stable isotopes of CO2 if possible (delta 13 CO2 and Delta 18O CO2). Copies of all final laboratory analytical results shall be provided to the COGCC within three (3) months of collecting the samples. The analytical results shall be submitted to the COGCC in an approved electronic data deliverable format. If aqueous liquids are present in the bradenhead collect production and bradenhead water samples for laboratory analysis of Volatile Organic Compounds (VOCs) via EPA Method 8260 or similar and for Semi volatile Organic Compounds (SVOCs) via EPA method 8270 or similar. In addition, operators shall have the samples analyzed for the major cations and anions so that an evaluation of the water source may be conducted. The analysis shall include Na, K, Ca and Mg for cations and sulfate, chloride, bromide and total alkalinity (including bicarbonate, carbonate and total alkalinity) for anions, plus a measurement of total dissolved solids.</p> <p>In addition, field water analysis should be carried out according to API RP 45. Below is the list of measurements that should be carried out immediately in the field after collecting a sample of oilfield waters:</p> <ul style="list-style-type: none"> <li>pH</li> <li>Temperature</li> <li>Alkalinity</li> <li>Dissolved oxygen</li> <li>CO2</li> <li>H2S</li> <li>Total and soluble iron</li> <li>Turbidity on an unfiltered sample</li> <li>Total suspended solids with at least primary filtration and washing performed in the field</li> <li>Bacteria with filtering and/or culturing in the field and incubation and counting performed in the laboratory</li> </ul> <p>Copies of all final laboratory analytical results shall be provided to the COGCC within three (3) months of collecting the samples. The analytical results shall be submitted to the COGCC in an approved electronic data deliverable format.</p>

**General Comments**

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

Total: 0 comment(s)

**Attachment Check List**

<b>Att Doc Num</b>	<b>Name</b>
400998173	FORM 4 SUBMITTED
400998191	OTHER
400998192	WELL LOCATION PLAT

Total Attach: 3 Files