

**State of Colorado**  
**Oil and Gas Conservation Commission**

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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 08401 00 OGCC Facility ID Number: 240613  
 Well/Facility Name: WILLIAMS WETHINGTON GAS UNIT Well/Facility Number: 1  
 Location QtrQtr: SWNE Section: 7 Township: 1N 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:

FNL/FSL		FEL/FWL	
<u>1650</u>	<u>FNL</u>	<u>1650</u>	<u>FEL</u>

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

Current **Surface** Location **From** QtrQtr SWNE Sec 7 Twp 1N Range 66W Meridian 6  
 New **Surface** Location **To** QtrQtr \_\_\_\_\_ Sec \_\_\_\_\_ Twp \_\_\_\_\_ Range \_\_\_\_\_ Meridian \_\_\_\_\_

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

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

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Current **Top of Productive Zone** Location **From** Sec \_\_\_\_\_ Twp \_\_\_\_\_ Range \_\_\_\_\_

New **Top of Productive Zone** Location **To** Sec \_\_\_\_\_ Twp \_\_\_\_\_ Range \_\_\_\_\_

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

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

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Current **Bottomhole** Location Sec \_\_\_\_\_ Twp \_\_\_\_\_ Range \_\_\_\_\_

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

\*\* attach deviated drilling plan

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 \_\_\_\_\_



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 03/04/2015

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 needs to have a CBL ran to ensure improper coverage over NIO. Subsequently squeeze the NIO, replace WH, and set production packer.  
2 Gyro is listed as run as per S. Frantz's list, no need to run gyro.  
3 Call foreman and/or field coordinator 24 hours before rig up to isolate any production equipment (remove plunger, wellhead automation, etc.). Prepare to move base beam rig onto location. Install fence if needed. Operations need to bleed off the bradenhead pressure before the rig gets on location.  
4 Check and report surface casing pressure. If valve is not accessible at ground level, re-plumb so valve is at ground level.  
5 MIRU slickline. RIH to retrieve production equipment and tag for fill (wireline tagged at 7,960' 3/2012). Note tagged depth in OpenWells. RDMO slickline.  
6 MIRU WO rig. Spot minimum 50 joints of 2-3/8" J-55 EUE tbg.  
7 Kill well as necessary with water and biocide. ND wellhead. NU BOP.  
8 Unland 2-3/8" tbg and lay down landing joint.  
9 MIRU EMI services. EMI 2-3/8" tbg while TOO H and tally while standing back, do not exceed safety tensile load of 53,000lbs. Lay down and clearly mark 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 wireline. RIH w/ gauge ring for 4.5", 10.5# to 7900' to ensure there isn't 11.6# downhole. RDMO wireline.  
11 PU 10,000 psi rated from above and below CIBP (4.5", 11.6#, N-80) and 2-3/8" tubing. Set CIBP at +/- 7,800' (collars at 7785' and 7816').  
12 Release tbg from CIBP and circulate all gas out of the hole. Pumping water with biocide, pressure test RBP and production casing to 1,000 psi for 15 minutes. If pressure test passes, proceed; otherwise contact engineering.  
13 Bleed off pressure and TOO H standing back all 2-3/8" tbg. Load hole with biocide treated water.  
14 ND BOP.  
15 ND existing tubing head off of 4.5" casing and install new WHI 5,000 psi flanged tubing head complete with 5,000 psi rated casing valves and double-x heavy nipples.  
16 NU BOP.  
17 MIRU wireline services. PU and RIH with CCL-GR-CBL-VDL. Log from tagged CIBP depth (+/- 7,800') to surface while holding +/- 1,000 psi on casing to verify cement coverage. Contact engineering after CBL is ran to confirm inadequate cement top expected to be +/- 7200' (cement top needs to be at least 6,724'; NIO top is at 7,124'), and also to confirm packer setting depth (needs to be high in casing with competent cement behind pipe).  
18 \*\*ALL BELOW STEPS ASSUME TOP OF CEMENT IN WELL BELOW 7,150' with no additional cement to 848'\*\*\*  
19 PU and RIH with 3-1/8" guns and shoot squeeze holes at +/- 7,150' (may change from CBL results) using 3 SPF, 0.38" EHD, 33.65" penetration, 1' net, 3 total shots. Tie into CCL-GR-CBL-VDL log.  
20 PUH with perf guns and shoot additional squeeze holes at 6,700' using 3 SPF, 0.38" EHD, 33.65" penetration, 1' net, 3 total shots. Tie into CCL-GR-CBL-VDL log. RDMO wireline services.  
21 PU and TIH with CICR, stinger, and 2-3/8" tbg to set CICR at 6,730'. Sting into CICR.  
22 MIRU cementing services. Establish injection rate with water and pump 140 sx 50/50 Poz "G" with 20% silica flour, 3% gel, 0.1% sodium metasilicate and 0.4% FL-52 mixed at 13.5 ppg and 1.71 cuft/sx. (cement volumes based on 9" hole with 20% excess). Displace cement 1.5 bbl short of CICR. Sting out of CICR and dump remaining cement (1.5 bbl) on top of CICR. PUH to +/- 6,500' and reverse circulate 2 times the tubing volume of biocide treated water or until clean returns are seen. TOO H and SB 2-3/8" tubing. LD stinger.  
23 RDMO cementing services.  
24 Allow cement to set up for at least 24 hours.

**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:

25 PU and TIH with 3-7/8" blade bit and 2-3/8" tbg to cement top estimated at +/- 6,640'. Drill out cement to CICR at 6,730' and pressure test squeeze holes at 6,700' to 1,000 psi. If pressure test fails contact engineering, otherwise proceed to next step.  
 26 Continue to drill out CICR at 6,730' through cement at perfs at 7,150 and pressure test squeeze holes to 1,000 psi. \*\*DO NOT DRILL OUT CIBP @ 7,800\*\*\* If pressure test fails contact engineering, otherwise proceed to next step.  
 27 TOOH and stand back all 2-3/8" tubing. LD 3-7/8" bit. Load hole with biocide treated water.  
 28 MIRU wireline services. RIH with CCL-GR-CBL-VDL. Log from +/- 7,800' (Depth of CIBP) to 100' above TOC (estimated to be +/- 6,700'). If the cement is not above 6,700' contact engineer. RDMO wireline services.  
 29 PU and TIH with 3-7/8" blade bit and 2-3/8" tbg to CIBP at +/- 7,800'. Drill out CIBP and clean well out to +/- 8,020'.  
 30 TOOH and stand back all 2-3/8" tubing. LD 3-7/8" bit.  
 31 PU 2-3/8" NC, 2-3/8" XN nipple (be sure nipple is correctly input into OpenWells), 1 jt 2-3/8" 4.7# J-55 tbg, Arrowset AS-1X packer rated to 10,000 psi and 2-3/8" 4.7# J-55 tbg to surface. Set packer at (depth determined once top of cement is identified from CBL).  
 32 Load 2-3/8" x 4-1/2" annulus with biocide treated water and pressure test to 1,000 psi for 15 minutes to be sure packer is set properly.  
 33 RU rig lubricator. Broach tubing to seating nipple. RD rig lubricator. ND BOP.  
 34 Install 7-1/16" x 5,000 psi tubing head adaptor with the 5,000 psi flanged master valve. Make sure all wellhead valves are rated to 5,000 psi.  
 35 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.  
 36 RDMO WO rig. Return well to production team.  
 37 END OF SAFETY PREP STEPS. BELOW ARE STEPS FOR UN-PREPPING THE WELL  
 38 When notification is sent to un-prepare the well, MIRU WO rig. Kill well as necessary with water and biocide. ND wellhead. NU BOP.  
 39 Unland 2-3/8" tbg and lay down landing joint.  
 40 Release Arrowset AS-1X packer and TOOH standing back all 2-3/8" tubing and LD packer. Return packer to shop it was purchased from and have the packer redressed.  
 41 PU 2-3/8" NC, 2-3/8" XN nipple (be sure nipple is correctly input into OpenWells), and 2-3/8" 4.7# J-55 tbg to surface. Land EOT at +/- 7,900' (1 joint above top JS perfs).  
 42 RU rig lubricator. Broach tubing to XN seating nipple. RD rig lubricator. ND BOP. NU WH.  
 43 Install 7-1/16" x 5,000 psi tubing head adaptor and 5,000 psi flanged master valve. Make sure all wellhead valves are rated to 5,000 psi.  
 44 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.  
 45 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: 2/18/2015

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: 3/1/2015

**CONDITIONS OF APPROVAL, IF ANY:**

**COA Type**

**Description**

	<ol style="list-style-type: none"> <li>1) Verify existing cement with a cement bond log.</li> <li>2) If Niobrara coverage not present, provide remedial cement at least 200' above Niobrara.</li> <li>3) The Sussex formation is productive within one mile of this well. Therefore, cement isolation, which does not currently exist across it can be provided by using a perforate and squeeze or equivalent method so that at a minimum there is cement from 200' above to 200' below the Sussex formation. Alternatively, after running a CBL showing adequate Nio and aquifer coverage, Sussex isolation may be shown through a casing pressure test. The casing pressure test should be acknowledged in the Form 5 – Submit tab Technical Details/Comments.</li> <li>4) If Fox Hills coverage not present, provide remedial cement from at least 846' to the DV tool cement or email CBL and contact COGCC.</li> <li>5) The additional cement referenced shall be placed as indicated and comply with Rule 317.j. The placed cement shall be verified with a CBL and documented with a Form 5 Drilling Completion Report.</li> <li>6) Please submit gyro survey data with Form 5 Drilling Completion Report.</li> </ol>
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### General Comments

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

Total: 0 comment(s)

### Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
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<u>Att Doc Num</u>	<u>Name</u>
400794230	FORM 4 SUBMITTED
400794235	OTHER

Total Attach: 2 Files