

**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>401212905</b>			
Date Received: <b>02/16/2017</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 17257 00 OGCC Facility ID Number: 249454  
 Well/Facility Name: KUGEL Well/Facility Number: V 18-4  
 Location QtrQtr: NWNW Section: 18 Township: 2N 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:

	FNL/FSL		FEL/FWL
	600	FNL	516

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

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Current **Surface** Location **From** QtrQtr NWNW Sec 18

Twp	<u>2N</u>	Range	<u>67W</u>	Meridian	<u>6</u>
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New **Surface** Location **To** QtrQtr \_\_\_\_\_ Sec \_\_\_\_\_

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

Twp	_____	Range	_____
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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	_____
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\*\* attach deviated drilling plan

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

Range	_____
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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 02/16/2017

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:

### ANNULAR FILL

- 1 Well needs a single stage annular fill from 1080' to 325', production packer and WH change.
- 2 WELL NEEDS GYRO.
- 3 MIRU Slickline. Pull bumper spring and tag bottom. Record tag depth in Open Wells. RD slickline.
- 4 Prepare location for base beam equipped rig. Install perimeter fence as needed.
- 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 Contact COGCC to witness MIT.
- 7 MIRU WO rig. Spot 7600' (~242 jts) of 2-1/16" 3.25# tbg and 1200' of 1.66" 2.33# J-55 tubing.
- 8 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. If pressure does not blow down within 1 hour contact engineer, otherwise proceed.
- 9 ND wellhead. NU BOP.
- 10 PU 8-10' pup joint with TIW valve on top and screw into the tbg hanger. Unseat and LD the landing joint.
- 11 MIRU EMI services. EMI 2-1/16" tbg (well may not have any tbg in hole) 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.
- 12 PU and RIH with (3.5", 7.7#) Bit and Scraper on 2-1/16" tbg to 7380'. TOO H. SB all 2-1/16" tbg. LD bit and scraper.
- 13 PU 10,000 psi rated from above and below RBP (3.5", 7.7#), retrieving head, and 2-1/16" tubing. Set RBP at +/- 7370'.
- 14 Release tbg from RBP and circulate all gas out of the hole. Pumping water with biocide, pressure test RBP and production casing to 1000 psi for 15 minutes. If pressure test passes, proceed; otherwise contact engineering.
- 15 Dump and spot 2 sx of sand on top of RBP and TOO H and SB 2-1/16" tubing.
- 16 ND BOP. ND wellhead. Un-land casing using a casing spear, not a lifting sub. Max pull shall be 100,000#. If unable to unland, contact Engineering. NU double entry flange (with 3-1/2" x 4-1/2" swedge) and BOP. Install 1.66" pipe rams.
- 17 PU 1.66" 2.33# J-55 10RD tubing and TIH between the 3-1/2" production casing and 8-5/8" surface casing/open hole to 1080' while continuously circulating. Make 2 sweeps of DF 20-20 while TIH. (annular volume ~58 bbl @ 1080') If unable to make it to 1080' call Engineering.
- 18 Circulate with the rig pump to condition the hole or until well is completely dead. Pump a final sweep of DF 20-20 at 1080' (annular volume ~58 bbls). Circulate a minimum of 1.5 annular volumes and ensure well is dead. If not able to circulate dead, contact engineering.
- 19 MIRU cementing services. Establish circulation and pump 20 bbl (5 bbls of water, 10 bbls of sodium silicate, and 5 bbls water) spacer, 315 sx (366 cf) 15.8 ppg 1.16 yield. (based on 7.88" hole size + 60% excess from 1080'-582' and from 582' to 325' between 8-5/8" 24# surface casing and 3-1/2" 7.7# production casing). Attempt to cement from 1080'-325'. Plan for 3 hour pump time.
- 20 TOO H with 1.66" 2.3# J-55 10RD IJ tubing until EOT is at 250' and LD extra tbg. Circulate with freshwater 1.5 times the hole volume or until returns are clean. RDMO cementing services.
- 21 TOO H and LD all 1.66" 2.3# J-55 10RD IJ tubing. ND BOP and double entry flange. Use 3-1/2" casing spear to re-land 3-1/2" casing. NU WH and BOP. Install 2-1/16" pipe rams. Shut well in and WOC for a minimum of 24hrs.
- 22 MIRU wireline and run CCL-GR-CBL-VDL from +/- 5000' (below the original TOC) to surface. If the cement is not at or above 532', 50' inside 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.
- 23 PU and TIH with retrieving head and 2-1/16" tubing.

**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>Best Management Practices</b>	
<b>No BMP/COA Type</b>	<b>Description</b>

**Operator Comments:**

24 Circulate sand off of RBP. Pressure test casing to 1000 psi for 15 minutes. Latch onto and release RBP at +/- 7370'. Circulate gas out of hole. TOOH standing back all 2-1/16" tubing and LD RBP.

25 Rig up hydrotester and hydrotest tubing to 3,000 psi while TIH. PU & TIH with 3-1/2" Arrowset AS-1X packer rated to 10,000 psi (3-1/2", 7.7#), 2-1/16" XN nipple, and tbg to surface.

26 Set packer at +/- 7400'. Land tubing (EOT at packer). Verify XN nipple sizes and enter in Open Wells.

27 Load backside with packer fluid. (Julio Ramirez 970-518-2166 or Cesar Rodriguez 970-590-2682 with Reliable Services). Do not load hole with water out of the work tank.

28 RU rig lubricator. Broach tubing to XN seating nipple. RD rig lubricator. ND BOP.

29 Install 7-1/16" flanged 5000 psi tubing head adaptor with studded top, 2-1/16" flanged 5000 psi master valve, flanged 5000 psi 2-1/16" 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.

30 Install 2-1/16" 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.

31 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: 2/16/2017

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: 2/17/2017

**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) The additional cement referenced shall be placed as indicated. The placed cement shall be verified with a CBL and documented with a Form 5. 3) Please submit gyro survey data with the Form 5.
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**General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
		Stamp Upon Approval

Total: 0 comment(s)

**Attachment Check List**

<b><u>Att Doc Num</u></b>	<b><u>Name</u></b>
401212905	SUNDRY NOTICE APPROVED-REPAIR
401212915	OTHER
401212916	WELLBORE DIAGRAM
401213759	FORM 4 SUBMITTED

Total Attach: 4 Files