

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

1120 Lincoln Street, Suite 801, Denver, Colorado 80203  
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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 21403 00 OGCC Facility ID Number: 266882  
 Well/Facility Name: SHUTT Well/Facility Number: 9-18  
 Location QtrQtr: NESE Section: 18 Township: 3N 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:

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

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

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 \_\_\_\_\_ Range \_\_\_\_\_

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>2060</u>	<u>FSL</u>	<u>510</u>	<u>FEL</u>
_____	_____	_____	_____
Twp <u>3N</u>	Range <u>66W</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    09/15/2014

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:**

**BRADENHEAD**

Shutt 9-18 Bradenhead Procedure

1 GYRO ran on 11/14/11. Sand cleanout needed prior to cement job.

2 Call Foreman or Lead Operator at least 24 hr prior to rig move. If not already completed, request that they isolate production equipment and remove any automation equipment prior to the rig showing up. Install perimeter fence as needed.

3 Slickline tagged and tested on 8/7/14 (after HZ frags) and didn't find any fish . Plunger and bumper spring assembly may be stuck in sand.

4 Prepare location for base beam rig.

5 Spot a minimum of 25 jts of 2-3/8", 4.7#, J-55, EUE tbg for replacement and 190 jts 1-1/4", 2-33#/ft, J-55, 10rd IJ for sand cleanout and annular cement placement.

6 MIRU WO rig and auxiliary equipment. Check pressures. Rig up 2" line from the casing head annulus to work tank. Kill well with fresh water. ND tree and adapter flange, NU BOP's.

7 PU 8-10' landing joint. TIW valve on top and screw into the tbg hanger. Back out the lock down pins and pull up on tbg string to break any possible sand bridges, unseat landing joint and lay down. Do not exceed 80% of tubing tensile strength, or 57,380-lb. If tbg does not come free, notify engineer to discuss plan for moving forward.

8 Sand was last tagged at 6800' (642' above XN) on 8/13/2014. In order to avoid a wet trip, MIRU E-line, RIH with perf gun and shoot holes in 2-3/8" tbg at ~6800' . POOH with perf gun, RDMO E-line.

9 MIRU EMI equipment. TOO H with 2-3/8" tbg. EMI tbg while TOO H. Lay down joints with wall loss or penetrations >35%. Replace joints as necessary. Note joint number and depth of tubing leak(s) on production equipment failure report in Open Wells. Clearly mark all junk (red band) tubing sent to yard.

10 PU and TIH with 15 jts 1-1/4" tbg, crossover, and ~236 jts 2-3/8" tbg (to ensure reaching PBMD). Tag fill and cleanout to PBMD at 7909'. Use bailer when needed. Make sure to circulate tbg clean at 7746' (1 jt above top J Sand perf) prior to cleaning past J Sand perms. If circulation is lost near J Sand, contact engineer to discuss leaving J Sand under sand plug. POOH.

11 TIH with 2-3/8" tbg and 4.5" RBP. Set RBP @ +/-7040', (collars are at 7020' and 7062'). Pressure test RBP to 5000 psi. Spot 2sx of sand on top of RBP and TOO H.

12 Bleed off pressure. ND BOP's, ND wellhead, Un-land 4-1/2" casing, NU dual entry flange, NU BOP.

13 PU 1-1/4" 2.3#/ft J-55 10rd IJ tubing, and TIH outside 4-1/2" casing in open hole to ~5400'. Circulate with the rig pump while TIH to clean up the annulus. Use sweeps as necessary until clean returns are seen.

Make sure no pressure is present on the braden head before moving on to the next step. If gas is detected, contact engineering to discuss a plan for moving forward.

14 Contact Imperial mud (min of 24hrs. in advance) to bring out 60bbbls of 10.0ppg mud. Pump 60bbbls of mud at 5400'. Leave 1-1/4" tbg full of mud to avoid a wet trip and PUH to 4944' to displace cement.

15 MIRU cement services (Sanjel). Circulate 10bbbls water, 20bbbls mud flush, 10bbbls water, 20bbbls SMS, and 5 bbls of water.

16 Mix and pump 300sx (-59.8bbbls) of 14.6 ppg (1.12 cuft/sk) neat Class G cement and 1/4 lb/sk Cello Flake. The cement is to be retarded for 120 degrees F and 6 hour pump time.

17 TOO H 40 joints to ~3700' and circulate 2 times the tubing volume of water or until clean returns are seen.

18 PUH to 1500'. Mix and pump 260sx (-61.6bbbls) of 14.8 ppg (1.33 cuft/sk) Type III and 1/4lb/sk Cello Flake. The cement is to be retarded for 80 degrees F and 3 hour pump time.

19 TOO H 32 joints to ~400' and circulate 2 times the tubing volume of water or until clean returns are seen. TOO H with 1-1/4" tubing.

20 RDMO cementing company.

21 ND BOP. ND dual entry flange and crossover. Pick up and land 4-1/2" casing in slips. NU 4-1/2" 5000 psi tubing head with 2-5000 psi valves (use new style flanged well head equipment if available). NU BOP's to tubing head. Make sure all valves and nipples are rated to 5000 psi.

**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:**

22 Leave well shut in for ~36hrs .  
 23 MIRU wireline and run CCL-GR-CBL-VDL from 6600' to surface. Verify new cement coverage with Evans Engineering. Design is for coverage from ~4944' to 4103' and ~1500' to 601'. In addition to normal handling of logs/job summaries, email copies of all cement job logs/job summaries and invoices to rscDJVendors@anadarko.com within 24 hours of the completion of the job.  
 24 RDMO wireline.  
 25 PU and TIH with 2-3/8" tbg and retrieving head. Circulate sand off RBP at @ +/-7040'. TOOH with RBP and SB tbg.  
 26 TIH with 1-1/4" NC, 9 jts 1-1/4" tbg, crossover, XN at ~7441', and 2-3/8" 4.7# J55 EUE tbg to surface (~236 jts).  
 27 Broach tubing to seating nipple. NO BOP's, NU master valve and tubing head adaptor. Hydrotest tubing head to 5000 psi for 15 minutes.  
 28 RDMO WO rig.  
 29 Clean location and swab well back to production. Notify Field Foreman/Field Coordinator of finished work and turn well back over 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: 8/28/2014

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: 9/2/2014

**CONDITIONS OF APPROVAL, IF ANY:**

<b><u>COA Type</u></b>	<b><u>Description</u></b>
	1) 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. 2) Please submit gyro survey data with 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>
400675764	FORM 4 SUBMITTED
400675766	OTHER

Total Attach: 2 Files