

**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>400803986</b>			
Date Received:			

**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: <u>47120</u>	Contact Name <u>Cheryl Light</u>
Name of Operator: <u>KERR MCGEE OIL &amp; GAS ONSHORE LP</u>	Phone: <u>(720) 929-6461</u>
Address: <u>P O BOX 173779</u>	Fax: <u>(720) 929-7461</u>
City: <u>DENVER</u> State: <u>CO</u> Zip: <u>80217-3779</u>	Email: <u>cheryl.light@anadarko.com</u>

  

API Number : 05- <u>123</u> <u>39499</u> <u>00</u>	OGCC Facility ID Number: <u>437344</u>
Well/Facility Name: <u>DOUTHIT</u>	Well/Facility Number: <u>8N-27HZ</u>
Location QtrQtr: <u>SENE</u> Section: <u>26</u> Township: <u>3N</u> Range: <u>68W</u> Meridian: <u>6</u>	
County: <u>WELD</u> Field Name: <u>WATTENBERG</u>	
Federal, Indian or State Lease Number: _____	

Complete the Attachment  
Checklist

OP OGCC

Survey Plat		
Directional Survey		
Srfc 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 SENE Sec 26

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 26

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 27 Twp 3N

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	
1500	FNL	309	FEL
Twp <u>3N</u>	Range <u>68W</u>	Meridian <u>6</u>	
Twp _____	Range _____	Meridian _____	
1800	FNL	50	FEL
Twp <u>3N</u>	Range <u>68W</u>		
Twp _____	Range _____		
1850	FNL	300	FEL
Twp _____	Range _____		
Twp _____	Range _____		

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\*\* attach deviated drilling plan

**CHANGE OR ADD OBJECTIVE FORMATION AND/OR SPACING UNIT**

<u>Objective Formation</u>	<u>Formation Code</u>	<u>Spacing Order Number</u>	<u>Unit Acreage</u>	<u>Unit Configuration</u>

**OTHER CHANGES**

☐ **REMOVE FROM SURFACE BOND** Signed surface use agreement is a required attachment

☐ **CHANGE OF WELL, FACILITY OR OIL & GAS LOCATION NAME OR NUMBER**

From: Name DOUTHIT Number 8N-27HZ Effective Date: \_\_\_\_\_

To: Name \_\_\_\_\_ Number \_\_\_\_\_

☐ **ABANDON PERMIT: Permit can only be abandoned if the permitted operation has NOT been conducted. Field inspection will be conducted to verify site status.**

☐ WELL: Abandon Application for Permit-to-Drill (Form2) – Well API Number \_\_\_\_\_ has not been drilled.

☐ PIT: Abandon Earthen Pit Permit (Form 15) – COGCC Pit Facility ID Number \_\_\_\_\_ has not been constructed (Permitted and constructed pit requires closure per Rule 905)

☐ CENTRALIZED E&P WASTE MANAGEMENT FACILITY: Abandon Centralized E&P Waste Management Facility Permit (Form 28) – Facility ID Number \_\_\_\_\_ has not been constructed (Constructed facility requires closure per Rule 908)

OIL & GAS LOCATION ID Number: \_\_\_\_\_

☐ Abandon Oil & Gas Location Assessment (Form 2A) – Location has not been constructed and site will not be used in the future.

☐ Keep Oil & Gas Location Assessment (Form 2A) active until expiration date. This site will be used in the future.

**Surface disturbance from Oil and Gas Operations must be reclaimed per Rule 1003 and Rule 1004.**

☐ **REQUEST FOR CONFIDENTIAL STATUS**

☐ **DIGITAL WELL LOG UPLOAD**

☐ **DOCUMENTS SUBMITTED** Purpose of Submission: \_\_\_\_\_

**RECLAMATION****INTERIM RECLAMATION**

☐ Interim Reclamation will commence approximately \_\_\_\_\_

Per Rule 1003.e.(3) operator shall submit Sundry Notice reporting interim reclamation is complete and site is ready for inspection when vegetation reaches 80% coverage.

☐ Interim reclamation complete, site ready for inspection.

Per Rule 1003.e(3) describe interim reclamation procedure in Comments below or provide as an attachment and attach required location photographs.

**Field inspection will be conducted to document Rule 1003.e. compliance**

**FINAL RECLAMATION**

☐ Final Reclamation will commence approximately \_\_\_\_\_

Per Rule 1004.c.(4) operator shall submit Sundry Notice reporting final reclamation is complete and site is ready for inspection when vegetation reaches 80% coverage.

☐ Final reclamation complete, site ready for inspection. Per Rule 1004.c(4) describe final reclamation procedure in Comments below or provide as an attachment.

**Field inspection will be conducted to document Rule 1004.c. compliance**

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 03/09/2015

☐ 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 Management 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:

### Doughit 8N-27HZ Remediation Procedure

#### Well History:

The Doughit 8N-27HZ was planned as a horizontal sliding sleeve completion of the Niobrara utilizing the Suretech sliding sleeve system. Its well configuration consists of 7" intermediate casing through the curve to 7640 ft, and the 4.5" Suretech system from a liner hanger at 6597 ft to a TD at 12,919 ft. The 7" intermediate casing cement top was located at 210' via CBL.

Prior to completion, a leak was found at the liner hanger by testing against a retrievable bridge plug set in the 4.5" casing below the liner hanger. The remedy was to install a second liner hanger (Packers Plus) above the existing Suretech liner hanger. The two were connected via a latch assembly and 1 joint of 4.5" 11.6ppf HCP-110 casing. After this work, the liner still had a similar leak. A retrievable bridge plug was then set in the single joint of casing between liner hangers, isolating the Suretech liner hanger from the Packers Plus liner hanger. Upon pressure testing, the Packers Plus liner hanger held pressure, showing that the leak was below. The well was readied for completion.

During the frac, no ball seats were seen while attempting to frac the first two stages. Due to previous issues with the Doughit 41C (four stages attempted), the frac was stopped pending further investigation. A retrievable bridge plug was set below the Suretech liner hanger to attempt to determine injection. Injection was established: 5bpm at 3440psi. Assumption is that frac exited 4.5" casing below the liner hanger and entered the Niobrara at the 7" shoe.

#### Current Status:

The Doughit 8N-27HZ is currently shut in awaiting further operations.

#### Remediation Procedure – Bullhead Squeeze Cement into 4.5" x 7" Annulus

- RIH with RBP and set 2-3 joints below Suretech liner hanger. Test injection. If no injection, discuss tubing punch in 4.5" casing for injection point. Dump sand on RBP.
- RIH with composite cement retainer and set in joint of pipe between liner hangers. RIH with 2-3/8" tubing and sting into cement retainer. Establish injection through leak, down 4.5" x 7" annulus, and into formation. Sting out.
- MIRU cementers. Cement to consist of:
  - o Lead – 95sks (4.5" x 7" annulus volume) of 15.8ppg Class G plus additives with pump time of 1-1.5 hours.
  - o Tail – 50sks of 15.8ppg Class G plus additives including retarder with pump time of 3 hours.
- Spot lead cement to end of tubing. Sting into cement retainer and inject cement. Pump lead out of tubing. Once tail is out of tubing, begin slowing down and hesitating while tail enters 4.5" x 7" annulus in order to build pressure.
- Once all of tail is in 4.5" x 7" annulus or no further injection is possible, sting out of cement retainer, reverse circulate out any remaining cement, trip out of hole with tubing, and wait on cement.
- RIH with mill on tubing. Mill cement retainer and any cement below. Tag sand on RBP. Trip out of hole with tubing.
- Test squeeze to 4000psi. If squeeze tests, slowly bring pressure up to frac test pressure of 7500psi. If squeeze tests to 7500psi, MIRU frac crew and finish well with max frac pressure of 7500psi.
- If squeeze does not test:
  - o If injection >2bpm is possible, repeat squeeze attempt.
  - o If no injection is possible, shut well in and plan to remediate via drill out and flush joint pipe. Timetable on drill out is fall 2015, after crops are harvested.

**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**

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**Operator Comments:**

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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: \_\_\_\_\_

Based on the information provided herein, this Sundry Notice (Form 4) complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved: \_\_\_\_\_ Date: \_\_\_\_\_

**CONDITIONS OF APPROVAL, IF ANY:****General Comments**

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
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Total: 0 comment(s)

**Attachment Check List**

<u>Att Doc Num</u>	<u>Name</u>
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400803989	OTHER
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Total Attach: 1 Files