

**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:<br><u>400737355</u><br>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: | 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      | 15147       | 00        | OGCC Facility ID Number: |           | 247350 |
| Well/Facility Name:                    |         | HSR-IRWIN |          |             |           | Well/Facility Number:    |           | 4-1A   |
| Location                               | QtrQtr: | NWNW      | Section: | 1           | Township: | 3N                       | Range:    | 66W    |
|  |         |           |          |             |           |                          | Meridian: | 6      |
| County:                                |         | WELD      |          | Field Name: |           | WATTENBERG               |           |        |
| Federal, Indian or State Lease Number: |         |           |          |             |           |                          |           |        |

|                     |  |  |
|---------------------|--|--|
| Survey Plat         |  |  |
| Directional Survey  |  |  |
| Srvc Eqpmnt 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 **NWNW** Sec **1**

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                          |     |          |
|---------|-----|----------------------------------|-----|----------|
| 795     | FNL | 815                              | FWL |          |
|         |     |                                  |     |          |
| Twp     | 3N  | Range                            | 66W | Meridian |
| Twp     |     | Range                            |     | Meridian |
|         |     |                                  |     |          |
|         |     |                                  |     | **       |
| Twp     |     | Range                            |     |          |
| Twp     |     | Range                            |     |          |
|         |     |                                  |     |          |
|         |     |                                  |     | **       |
| Range   |     | ** attach deviated drilling plan |     |          |
| Range   |     |                                  |     |          |

\*\* 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 HSR-IRWIN Number 4-1A 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 12/04/2014

☐ 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:

1 ND BOP. Unland production casing (4-1/2", 11.6#, I-70), ND surface casing head and NU double entry flange. 1991 vintage casing, don't pull with more than 100,000lbs (50% of virgin joint strength).

2 Pick up concentrated mud flush (Alcomer 74L – liquid mud thinner in 5 gallon bucket) from Imperial.

3 PU 158 jnts of TBG (1-1/4", 2.33#, J-55, IJ). Run in annulus with pup jnt with CutRight, burn shoe or mule shoe on 1-1/4" tbg to 4900' or as deep as possible while circulating. Circulate mud flush sweeps intermittently (about 3 or 4 while TIH). If TBG hits tight spots work it for a bit while circulating to break the bridge as best possible. Call engineering if there is difficulty making depth or if a power swivel is necessary to break bridging.

4 Once EOT of 1-1/4" is at 4900' circulate another 4 hours minimum using at least 1 mud flush sweep.

5 Order and pump 10 bbls of 10# mud from Imperial. Displace with 8.3 bbl of fresh water to prevent unbalanced flow back. Note: Don't put mud in tanks contaminated with mud flush.

6 Pull out of annulus (POOA) with 1-1/4" TBG so EOT at +/- 4700'.

7 MIRU cementing services.

8 Mix & pump as follows: 5 bbls fresh water, 10 bbls Sodium Metasilicate (SMS), 10 bbl fresh water spacer, 28.05 bbls Sussex coverage blend cement, and 1/4#/sk Cello Flake (retarded by cementing service company for a 4 hour pumping time at 120° F). Design is for coverage from 4700' to 4237' in 8.5" Borehole with a 20% excess (has caliper log). See calculation for cement details. Displace with 7.2 bbls of fresh water.

9 POOA with 1-1/4" tbg to +/- 4000' and circulate until clean.

10 POOA and SB tbg. ND double entry flange and re-Land the 4-1/2" production casing immediately. NU wellhead.

11 Shut in and WOC for 36 hrs minimum before un-landing casing.

12 ND WH. Unland production casing, ND surface casing head and NU double entry flange.

13 TIH (annulus) with 1-1/4" TBG so EOT 1300'.

14 Once EOT of 1-1/4" is at 1300' circulate another 4 hours minimum using at least 1 mud flush sweep.

15 MIRU cement services.

16 Mix & pump as follows: 10 bbls SMS, 10 bbl fresh water spacer 400 sks type III cement & 1/4#/sk Cello Flake, mixed at 14.8 ppg and yield of 1.33 cuft/sk (retarding as determined by cementing service company for a 3 hour pumping time at 80°F) for a total of 94.7 bbl of cement. Displace with 0.5 bbl of fresh water. Design is for coverage from 1300' to 330' in 10.5" Borehole (no caliper log) and 136' in 8.1" ID surface casing with a 20% excess. See Calculation if necessary.

17 POOH with 1-1/4" to +/- 300' and circulate until clean. Finish POOH and LD 1-1/4" tbg.

18 Re-land 4-1/2" production casing immediately. NU 5000 psi tubing head and BOP on production casing.

19 Shut in and WOC 12 hours minimum for CBL and 20 hrs until pressure testing packer in step 36.

20 MIRU Wireline Services. PU and RIH w/ CCL-CBL-VDL tools and log from 4,900' to surface. NOTE: IF CEMENT COVERAGE IS NOT SUFFICIENT OR HAS POOR BOND, CONTACT EVANS ENGINEERING. Clear with Evans engineering and email logs to Jacob.Barker@Anadarko.com before proceeding. Email copies of logs, summaries and invoices to rscDJVendors@Anadarko.com within 48 hrs.

21 POOH, RDMO wireline service company.

## 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:

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**

| <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> |
|---------------------------|--------------------|
|---------------------------|--------------------|

|           |       |
|-----------|-------|
| 400737356 | OTHER |
|-----------|-------|

Total Attach: 1 Files