

State of Colorado
Oil and Gas Conservation Commission

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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: <u>47120</u>	Contact Name <u>DOREEN GREEN</u>
Name of Operator: <u>KERR MCGEE OIL & GAS ONSHORE LP</u>	Phone: <u>(970) 336-3517</u>
Address: <u>P O BOX 173779</u>	Fax: <u>()</u>
City: <u>DENVER</u> State: <u>CO</u> Zip: <u>80217-3779</u>	Email: <u>DOREEN.GREEN@ANADARKO.COM</u>

Complete the Attachment
Checklist

OP OGCC

API Number : 05- <u>123</u> <u>10846</u> <u>00</u>	OGCC Facility ID Number: <u>243055</u>
Well/Facility Name: <u>ANTONE C. HEIT UNIT</u>	Well/Facility Number: <u>2</u>
Location QtrQtr: <u>NENW</u> Section: <u>22</u> Township: <u>1N</u> Range: <u>67W</u> Meridian: <u>6</u>	
County: <u>WELD</u> Field Name: <u>WATTENBERG</u>	
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 NENW Sec 22

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	
<u>1000</u>	<u>FNL</u>	<u>1395</u>	<u>FWL</u>
_____	_____	_____	_____
Twp <u>1N</u>	Range <u>67W</u>	Meridian <u>6</u>	
Twp _____	Range _____	Meridian _____	
_____	_____	_____	_____
_____	_____	_____	_____
Twp _____	Range _____		
Twp _____	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 ANTONE C. HEIT UNIT Number 2 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 06/15/2017

☐ 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 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:

BRADENHEAD-SQUEEZE PREP

- 1 Well needs a SUSSEX retainer squeeze from 4885'-4350', FOX HILLS retainer squeeze from 1430'-750' for bradenhead issues, wellhead and a packer.
- 2 Well has gyro survey on 11/29/2012.
- 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 MIRU WO rig. Spot 25 jts of 2-3/8" 4.7# J-55 tbg.
- 7 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.
- 8 ND wellhead. NU BOP.
- 9 PU 8-10' pup joint with TIW valve on top and screw into the tbg hanger. Unseat and LD the landing joint.
- 10 MIRU EMI services. EMI 2-3/8" tbg (~253 jts landed at 8007') 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.
- 11 PU and TIH with (5.5", 20#) Bit and Scraper to 8000'. TOO H, SB all 2-3/8" tbg.
- 12 PU and TIH with (5.5", 20#) hydraulically set CIBP. Set CIBP at +/- 7990'.
- 13 Pumping water with biocide, pressure test CIBP and production casing to 2000 psi for 15 minutes. If test fails, contact Engineering.
- 14 TOO H and SB 2-3/8" tubing.
- 15 ND BOP. ND existing tbg head, NU new 5,000 psi flanged tbg head complete with 5,000 psi rated casing valves. NU BOP.
- 16 MIRU wireline and run CCL-GR-CBL-VDL from +/- 7990' (to confirm existing cement placement) to surface. Forward to Engineering. 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. Procedure may change based on log results.
- 17 PU and RIH with one 1' 3-1/8" perf gun with 3 spf, 0.50" EHD, 120° phasing. Shoot 1' of squeeze holes at ~4885'. POOH. RD WL.

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:

18 PU and RIH with (5.5", 20#) CICR on 2-3/8" tbg while hydrotesting to 4000 psi and set at +/- 4855'. Establish circulation through squeeze holes with biocide treated fresh water and circulate a minimum of 200 bbls through squeeze holes. If rate is less than 1 bpm at 1000 psi, contact engineer.

19 MIRU cementing services. Establish circulation and pump 20 bbl (5 bbls of water, 10 bbls of sodium silicate, and 5 bbls water) spacer, Cement with fast set-up time 160 sx (242 cf) 15.8 ppg 1.51 yield. Underdisplace by 1 bbl. (based on 30' below retainer in 5-1/2" casing and 7.875" hole size + 60% excess from 4885'-4350'. Attempt to cement from 4885'-4350'.

20 PUH to 4655' and reverse circulate tubing clean to ensure no cement is left in the tubing. Reverse circulate until no cement in returns. TOO. SB ALL tbg. LD stinger.

21 MIRU WL. PU and RIH with one 1' 3-1/8" perf gun with 3 spf, 0.50" EHD, 120° phasing. Shoot 1' of squeeze holes at ~1430'. POOH. RD WL

22 PU and RIH with (5.5", 20#) CICR on 2-3/8" tbg while hydrotesting to 4000 psi and set at +/- 1400'. Establish circulation through squeeze holes with biocide treated fresh water and circulate a minimum of 200 bbls through squeeze holes. If rate is less than 1 bpm at 1000 psi, contact engineer.

23 MIRU cementing services. Establish circulation and pump 20 bbl (5 bbls of water, 10 bbls of sodium silicate, and 5 bbls water) spacer, GASBLOK cement with fast set-up time 240 sx (279 cf) 15.8 ppg 1.16 yield. Underdisplace by 1 bbl. (based on 30' below retainer in 5-1/2" casing, 7.875" hole size + 60% excess from 1430'-864' and from 864' to 750' between 8-5/8" 24# surface casing and 5-1/2" 20# production casing). Attempt to cement from 1430'-750'.

24 PUH to 1200' and reverse circulate tubing clean to ensure no cement is left in the tubing. Reverse circulate until no cement in returns. TOO. SB ALL tbg. LD stinger. WOC 24 hours.

25 PU and TIH with 4-5/8" bit and appropriate number of 3-1/2" drill collars on 2-3/8" tbg. Time drill cement above CICR (~65'). If rate of penetration is faster than 2 min/ft, SD and WOC 24 hours and repeat. Drill down to the CICR located at +/-1400'. Drill CICR and cement past lower perf at 1430' and pressure test to 500 psi for 5 minutes. Repeat for CICR at 4855' and holes at 4885'.

26 TOO. SB tbg and drill collars, LD bit.

27 MIRU wireline and run CCL-GR-CBL-VDL from +/- 6000' (below the original TOC from first log) to surface. Forward to Engineering. 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.

28 PU and TIH with bit on 2-3/8" tubing. Drillout CIBP at 7990' and chase down to 8120'.

29 TOO. SB tbg. LD bit.

30 PU 2-3/8" NC, 2-3/8" XN nipple (be sure to correctly input into OpenWells), ~27 jts of 2-3/8" tbg (to set packer at 7200'), 5-1/2" Arrowset AS-1X packer (10K psi rated above and below), and 2-3/8" 4.7# J-55 tbg to surface while hydrotesting to 5000 psi. Land EOT at +/- 8030' (1 jt above top J Sand perfs).

31 Set packer at +/- 7200'. Load backside with packer fluid and test to 500 psi.

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

33 Install 7-1/16" flanged 5000 psi tubing head adaptor with studded top, 2-1/16" flanged 5000 psi master valve, flanged 5000 psi 2-3/8" plunger lubricator (side outlets threaded). Make sure all wellhead valves are rated to 5,000 psi.

Document wellhead components in an OpenWells wellhead report.

34 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.

35 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: DOREEN GREEN
Title: REGULATORY ANALYST Email: DJREGULATORY@ANADARKO.COM Date: 4/28/2017

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: 5/1/2017

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. Confirm original TOC with a CBL, if cement top is not at least 200' above the Niobrara top squeeze cement to provide formation isolation. Submit the CBL with and gyro survey data with the Form 5.

General Comments

User Group

Comment

Comment Date

		Stamp Upon Approval
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Total: 0 comment(s)

Attachment Check List

Att Doc Num

Name

401269750	SUNDRY NOTICE APPROVED-REPAIR
401269787	OTHER
401269788	OTHER
401271211	FORM 4 SUBMITTED

Total Attach: 4 Files