

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109



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>Cheryl Light</u>
Name of Operator: <u>KERR-MCGEE OIL & 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>

Complete the Attachment
Checklist

OP OGCC

API Number : 05- <u>123</u> <u>10045</u> <u>00</u>	OGCC Facility ID Number: <u>242254</u>
Well/Facility Name: <u>HANKS POOLING UNIT</u>	Well/Facility Number: <u>2</u>
Location QtrQtr: <u>NWSE</u> Section: <u>34</u> Township: <u>2N</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 NWSE Sec 34

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>1550</u>	<u>FSL</u>	<u>1360</u>	<u>FEL</u>
_____	_____	_____	_____
Twp <u>2N</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 HANKS POOLING 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 03/20/2014

☐ 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:

Hanks Pooling Unit 2 Remedial Cement
1 Level location for base beam rig.
2 Call Foreman or Field Coordinator before rig up to catch plunger, isolate production equipment, and ask if replacement parts/equipment are requested. Check and report surface casing pressure. If surface casing is not accessible at ground level, re-plumb so valve is at ground level.
3 Spot a minimum of 4 jts 2-3/8", 4.7#, J-55 EUE TBG for replacement.
4 MIRU slickline. Fish production equipment as necessary and tag fill. Note tagged depth in OpenWells. RDMO Slickline.
5 MIRU WO rig, flat tanks and rig pumps. Kill well, as necessary, with biocide treated fresh water. ND WH. NU BOP.
6 Unseat landing joint and lay down.
7 Drop down and clean out to 8129' using biocide treated water to ensure adequate rathole for post-cement work cleanout. Use bailer if necessary.
8 MIRU EMI services. TOO H with 2-3/8" TBG. EMI on TOO H. LD joints with wall loss or penetrations > 35%. Replace joints as necessary. **Keep yellow & blue band tubing. Note joint number and depth of tubing leak(s) on PRODUCTION EQUIPMENT FAILURE REPORT IN OPEN WELLS.
9 MIRU WL. RIH with gauge ring (appropriate for CIBP to be run) down to 7300'. POOH. PU and RIH with CCL and CIBP. Set CIBP at 7220'. POOH.
10 PU and RIH with CCL/GR/CBL tool. Correlate depth to Schlumberger CBL dated 3/24/95. Run CBL from 4950' to surface to ensure DV tool depth/cement coverage across FH formation. Immediately send CBL to Evans engineering for review. POOH and LD tools.
11 Pressure test CIBP to 1000 psi for 15 mins. If pressure test passes, proceed.
12 PU and RIH with CCL and perf guns. Correlate depth to CBL. Shoot squeeze holes at 7118'-7119', 0.38" EHD, 1 SPF. PUH and shoot circulation holes at 6718'-6719', 0.6" EHD, 1 SPF. POOH and LD guns.
13 PU and RIH with CICR. Set CICR at 7020'. POOH. RDMO WL.
14 PU stinger and RIH on 2-3/8" tbg. Sting into retainer at 7020'.
15 Establish circulation/injection down tubing before pumping cement. Note rate, pressure, volume pumped, and returns.
16 RU cementer. Prepare & pump 100 sks 50/50 Poz G + 20% silica flour + 3% gel + 0.4% FL additive + 0.1% SMS mixed at 13.5 ppg and 1.71 cu ft/sk, into squeeze holes at 7118'. Displace cement 1.5 bbl short of CICR. Sting out of CICR and place 1/2 bbl cement on CICR. PUH to circulation holes at 6718' and place remaining cement across holes. PUH 3 stands and reverse out. Design is for coverage from 7118' to 6718' in 9.25" hole, including 10% excess (partial caliper log).
17 TOO H and stand back tbg. LD stinger. WOC 24 hrs at minimum.
18 ND existing tubing head. NU new 5000 psi rated wellhead but do not install adapter flange.
19 SEE ATTACHED APPENDIX/ALTERNATE PROCEDURE BEFORE PROCEEDING. REQUIRED FOX HILLS REMEDIAL CEMENT IF CEMENT/DV TOOL CONFIRMED AT ANY DEPTH SHALLOWER THAN 750'.
20 NU BOPs. TIH with 3-7/8" bit on 2-3/8" TBG.
21 Drill through cement down to at least 6950' to ensure CBL tools can be run down to adequate depth.
22 MIRU WL. PU and RIH with CCL/CBL/GR. Correlate to depth to CBL/GR. Run CBL from 6980' to 6520' and from 1300' to surface. Deliver logs to Evans for review.
23 Pressure test squeeze perforations to 1000 psi for 15 mins. If pressure test passes, proceed. Once cleared by Engineering, proceed with next step.
24 TIH with 3-7/8" bit on 2-3/8" TBG. Drill through cement and CICR down to CIBP at 7220'. Pressure test squeeze perforations to 1000 psi for 15 mins. If pressure test passes, proceed.
25 Continue to drill/clean out to PBTD of 8129'. TOO H while standing back TBG and LD bit.
26 MIRU hydrotester.
27 PU & RIH with 2-3/8" NC, 2-3/8" XN profile nipple, 123 joint 2-3/8" TBG, Arrowset AS-1X packer (10k psi rated), and 2-3/8" TBG. Hydrotest tubing to 6000 psi while RIH. Set packer at 4200'. EOT should be at +/- 8015'.
28 Load backside with biocide treated water and pressure test packer to 500 psi for 15 min.

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:

29 ND BOP. NU WH. Ensure all valves on TBG head are rated to 5000 psi and ensure TBG head has a new R-46 ring gasket installed.
30 Hydrotest TBG head and master valve to 5000 psi. If pressure test fails, call Evans office for alternate procedures.
31 RDMO hydrotester. RDMO WO rig.
32 Return well to production team.
33 END OF SAFETY PREP STEPS. BELOW ARE STEPS FOR UN-PREPPING THE WELL.
34 When notification is sent to un-prep well, MIRU WO rig.
35 Control well with biocide treated water.
36 ND WH. NU BOP.
37 Release Arrowset AS-1X packer and POOH with 2-3/8" TBG, Arrowset packer, XN profile nipple, and NC while standing back TBG and laying down packer.
38 Return packer to shop were purchased and have redressed.
39 PU & RIH with 2-3/8" NC, 2-3/8" XN profile nipple, and 2-3/8" TBG. Land TBG at 8015', which is approximately 1 joint above the top JS perf.
40 RU rig lubricator. Broach TBG to SN. RD rig lubricator.
41 ND BOP, NU WH.
42 Hydrotest TBG head and master valve to 5000 psi. If pressure test fails, call Evans office for alternate procedures. RDMO hydrotesters.
43 RDMO WO rig. Swab well back if needed. Return well to production team.

APPENDIX (AS REQUESTED BY COGCC)

1 Alternate procedure for steps proceeding Step 19. Should cement/DV tool be confirmed any depth shallower than +/- 750', please follow the below steps to remediate the Fox Hills/aquifer cement coverage.
2 VERIFY CEMENT VOLUMES AND PERF DEPTHS WITH EVANS ENGINEERING ONCE CBL IS ANALYZED.
3 MIRU WL. PU and RIH with CCL and perf guns. Correlate depth to CBL. Shoot squeeze holes at 1100'-1101', 0.38" EHD, 3 SPF. PUH and shoot circulation holes at 656'-657', 0.6" EHD, 3 SPF. POOH and LD guns.
4 PU and RIH with CICR. Set CICR at 1000'. POOH. RDMO WL.
5 PU stinger and RIH on 2-3/8" tbg. Sting into retainer at 1000'.
6 Establish circulation/injection down tubing before pumping cement. Note rate, pressure, volume pumped, and returns.
7 RU cementer. Prepare & pump freshwater spacer, 20 bbls Sodium Metasilicate, 185 sks Type III cement + 1/4 #/sk cello flake, mixed at 14.0 ppg and 1.53 cu ft/sk. Displace cement 1 1/2 bbl short of CICR. Sting out of CICR and place 1/2 bbl cement on CICR. PUH to circulation holes at 656' and place remaining cement across holes. PUH 3 stands and reverse out. Design is for coverage from 1100' to 656' in 11" hole, including 10% excess.
8 TOOH and stand back tbg. LD stinger. WOC 48 HOURS.
9 TIH with 3-7/8" bit on 2-3/8" TBG. Drill through cement down to at least 750'.
10 Pressure test circulation holes to 1000 psi for 15 minutes. If pressure test passes, proceed.
11 TIH with 3-7/8" bit on 2-3/8" TBG. Drill through cement and CICR down to 1200'.
12 Pressure test squeeze perforations to 1000 psi for 15 mins. If pressure test passes, proceed.
44 FOR REMAINING STEPS, REFER TO ORIGINAL PROCEDURE BEGINNING WITH Step 21: "Drill through cement down to at least 6950' to ensure CBL tools can be run down to adequate depth."
13 CONTINUE FOLLOWING ORIGINAL PROCEDURE FOR PROCEEDING STEPS.

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: 3/3/2014

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: 3/5/2014

CONDITIONS OF APPROVAL, IF ANY:

COA Type

Description

1) Existing CBL shows adequate Niobrara coverage not present so provide remedial cement at least 200' above Niobrara.
2) Verify existing aquifer coverage with a cement bond log.
3) If cement/DV tool is confirmed at any depth shallower than +/- 750, provide remedial cement from 1100' to the DV tool cement.
4) 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.

General Comments

User Group

Comment

Comment Date

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Total: 0 comment(s)

Attachment Check List

Att Doc Num

Name

400564966	FORM 4 SUBMITTED
400564967	OTHER

Total Attach: 2 Files