

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 13519 00 OGCC Facility ID Number: 245724
 Well/Facility Name: HOVEY WANKER Well/Facility Number: 1-9
 Location QtrQtr: SESE Section: 9 Township: 4N Range: 67W Meridian: 6
 County: WELD Field Name: WATTENBERG
 Federal, Indian or State Lease Number: 62736

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:

FNL/FSL		FEL/FWL	
<input type="text" value="465"/>	<input type="text" value="FSL"/>	<input type="text" value="670"/>	<input type="text" value="FEL"/>

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

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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Current **Surface Location From** QtrQtr Sec

Twp Range Meridian

New **Surface Location To** QtrQtr Sec

Twp Range Meridian

Change of **Top of Productive Zone Footage From** Exterior Section Lines:

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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Change of **Top of Productive Zone Footage To** Exterior Section Lines:

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	**
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Current **Top of Productive Zone Location From** Sec

Twp Range

New **Top of Productive Zone Location To** Sec

Twp Range

Change of **Bottomhole Footage From** Exterior Section Lines:

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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Change of **Bottomhole Footage To** Exterior Section Lines:

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	**
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Current **Bottomhole Location** Sec Twp Range

** attach deviated drilling plan

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 _____

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 03/08/2016

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 Well needs dual stage annular fill from 4740' to 3800' and 940' to 110' and a packer for the upcoming PDC frac.
- 2 Well needs a gyro survey.
- 3 Call Foreman and Field Coordinator 24 hours before rig up to communicate activity and to isolate any production equipment (remove plunger, wellhead automation, etc.). Prepare to move base beam rig onto location. Install perimeter fence if needed.
- 4 Check and report surface casing pressure. If valves are not accessible at ground level, re-plumb so valve is at ground level.
- 5 MIRU slickline and VES. RIH to retrieve production equipment and tag for fill (PBMD @ 7276'). Note tagged depth in OpenWells. Run gyro survey from 7180' to surface, making stops every 100'. RDMO slickline and VES.
- 6 MIRU WO rig. Spot 4800' (~150jts) of 1.66" 2.33 J-55 10RD IJ tbg. 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. (Last Form 17 was performed 01/2016. There was 1 psi of bradenhead static pressure and no fluids produced during the test. The pressure blew down to 0 psi) If pressure does not blow down within 1 hour contact engineer, otherwise proceed.
- 7 ND wellhead. NU BOP.
- 8 PU 8-10' pup joint with TIW valve on top and screw into the tbg hanger. Back out the lock down pins and pull up on the tubing string to break any possible sand bridges. (Do not exceed 80% of tubing tensile strength, or 57,384 lbs.) Unseat and LD the landing joint.
- 9 MIRU EMI services. EMI 2-3/8" tbg (220 joints landed at 7187' according to report from 3/8/1999. This was the most recent report of rig activity available) while TOOH 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.
- 10 RIH w/ 4-1/2", 11.6# casing scrapper down to 6835'. TOOH
- 11 PU 10,000 psi rated from above and below RBP (4.5", 11.6#) retrieving head, and 2-3/8" tubing. Set RBP at +/- 6825' (collars located at 6805' and 6847').
- 12 Release tbg from RBP and circulate all gas out of the hole. Pumping water with biocide, pressure test RBP and production casing to 1000 psi for 15 minutes. If pressure test passes, proceed; otherwise contact engineering.
- 13 Circulate 2 sx of sand on top of RBP and TOOH and SB 2-3/8" tubing.
- 14 ND BOP. ND wellhead. Screw 4-1/2" pup joint into production casing and un-land 4-1/2" production casing. NU double entry flange and BOP. Install 1.66" pipe rams.
- 15 PU 1.66" 2.33# J-55 10RD IJ tubing and TIH between the 4-1/2" production casing and 8-5/8" surface casing/open hole to +/- 4740'. Make 2 sweeps of Alcomer 74L while TIH.
- 16 Circulate (~1280bbls) with the rig pump to condition the hole or until well is completely dead. Pump a final sweep of Alcomer 74L (~640bbls) at 4740'. Circulate until well is dead. If not able to circulate dead, contact engineering.
- 17 MIRU cementing services. Establish circulation and pump 30 bbl (5 bbls of water, 20 bbls of sodium metasilicate, and 5 bbls water) spacer, 560 sx Poz:G cement with 0.6% CFL-2 + 0.5% CFR + 0.6% SMS + 0.2% SPC-2 + 0.4% LTR mixed at 14.6 ppg and 1.12 cf/sk. (based on 11" hole size + 20% excess from 4740'-3800'). Plan for 6 hour pump time.
- 18 PUH to +/- 3600' with 1.66" 2.3# J-55 10RD IJ tubing. Circulate with freshwater 1.5 times the hole volume or until returns are clean.
- 19 TOOH with 1.66" 2.3# J-55 10RD IJ tubing until EOT is at 940' and LD extra tbg.
- 20 Establish circulation and pump, 440 sx Type III cement with 0.3% CFL-3 + 0.3% CFR-2 + 0.25 lb/sk Polyflake and CaCl2 as deemed necessary mixed at 14.8ppg 1.33 cuft/sx yield. (based on 11" hole size + 40% excess from 940'-217' and 107' between 8-5/8" 24# surface casing and 4-1/2" production casing). Attempt to cement from 940'-110'. Plan for 3 hour pump time.

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:

21 TOOH with 1.66" 2.3# J-55 10RD IJ tubing until EOT is at 90' and LD extra tbg. Circulate with freshwater 1.5 times the hole volume or until returns are clean. RDMO cementing services.

22 TOOH and LD all 1.66" 2.3# J-55 10RD IJ tubing. ND BOP and double entry flange. Use 4-1/2" pup joint to re-land 4-1/2" casing. NU BOP. Install 2-3/8" pipe rams. Shut well in and WOC for a minimum of 24hrs.

23 MIRU wireline and run CCL-GR-CBL-VDL from +/- 6500' to surface. If the cement is not at or above 3801' (200' over the Sussex interval) and at or above 116' (100' over the surface casing shoe), contact engineer. 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.

24 PU and TIH with retrieving head and 2-3/8" tubing. Circulate sand off of RBP. Latch onto and release RBP at +/- 6825'. Circulate gas out of hole. TOOH standing back all 2-3/8" tubing and LD RBP.

25 PU 2-3/8" NC, 2-3/8" XN nipple (be sure nipple is correctly input into OpenWells), 10 jts of 2-3/8" tbg, 4-1/2" Arrowset AS-1X packer rated to 10,000 psi (4-1/2", 11.6#, M-75) set at 6825' and 2-3/8" 4.7# J-55 tbg to surface. EOT will be at +/- 7180' (1 joint above top Codell perms).

26 Load backside with packer fluid. (Julio Ramirez 970-518-2166 or Cesar Rodriguez 970-590-2682 with Reliable Services). Do not load hole with water out of the work tank. Pressure test PKR to 1,000 psi for 15 minutes.

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

28 Install 7-1/16" flanged 5000 psi tubing head adaptor with 2-1/16" 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 and all nipples are XXH. Document wellhead components in an OpenWells wellhead report.

29 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.

30 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: CHERYL LIGHT

Title: SR. REGULATORY ANALYST Email: DJRegulatory@anadarko.com Date: 3/1/2016

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

COGCC Approved: JENKINS, STEVE Date: 3/3/2016

CONDITIONS OF APPROVAL, IF ANY:

<u>COA Type</u>	<u>Description</u>

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>

Total: 0 comment(s)

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400998628	FORM 4 SUBMITTED
400998629	OTHER
400998630	WELLBORE DIAGRAM

Total Attach: 3 Files