

State of Colorado
Oil and Gas Conservation Commission

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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 08406 00 OGCC Facility ID Number: 240618
 Well/Facility Name: PACHECO HEIRS GAS UNIT Well/Facility Number: 1
 Location QtrQtr: NESW Section: 32 Township: 2N Range: 66W Meridian: 6
 County: WELD Field Name: WATTENBERG
 Federal, Indian or State Lease Number: _____

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:

FNL/FSL		FEL/FWL	
1955	FSL	2480	FWL

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

Current Surface Location From	QtrQtr	<u>NESW</u>	Sec	<u>32</u>	Twp	<u>2N</u>	Range	<u>66W</u>	Meridian	<u>6</u>
New Surface Location To	QtrQtr		Sec		Twp		Range		Meridian	

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		Twp		Range	
New Top of Productive Zone Location To	Sec		Twp		Range	

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

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

Current Bottomhole Location	Sec		Twp		Range	
New Bottomhole Location	Sec		Twp		Range	

** attach deviated drilling plan

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 _____

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 PACHECO HEIRS GAS UNIT Number 1 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 11/17/2015

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 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:

Bradenhead Procedure replaces Form 4 approved on 02/06/15
1 Run full length pre-CBL, Niobrara and Fox Hills cement remediation, drill out plugs, run full length post-CBL, replace WH & set production PKR.
2 A GYRO survey was run 2/28/2014. Another is not needed.
3 The most recent bradenhead report experienced 1 to 0 psi, and no liquids (12/22/2014).
4 Notify Automation Removal Group at least 24 hours before rig-up to isolate any production equipment (remove plunger, wellhead automation, etc.). Prepare to move base beam rig onto location. Install fence if needed. Operations needs to bleed off the bradenhead pressure before the rig gets on location.
5 Check and report surface casing pressure. If valve is not accessible at ground level, re-plumb so valve is at ground level.
6 MIRU slickline. RIH to retrieve production equipment and tag for fill (last cleanout is unknown). Note tagged depth in Open Wells. RDMO slickline.
7 MIRU WO rig. Kill well as necessary with biocide treated water. ND wellhead. NU BOP.
8 Unland 2-3/8" tbg and lay down landing joint.
9 MIRU EMI services. EMI 2-3/8" tbg while TOOHO and tally while standing back. Do not exceed safety tensile load of 57,000 lbs. LD 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 PU scraper and RIH to 7980' (through the J Sand perms) for 4-1/2" 11.6 lb/ft casing. TOOHO, SB 7900' 2-3/8" tubing, and LD scraper.
11 RIH and set RBP (10,000 psi rated, casing 4.5", 11.6#) at +/- 7900' (Collars are unknown, and J-Sand TOP perf is located at 7931').
12 Pick up 1 joint above RBP, and circulate all gas out of the hole in preparation for a CBL. Pressure test RBP and production casing to 500 psi for 15 minutes (a DV Tool is located at 769'). If pressure test passes, place 2 sxs of sand on top of the RBP and proceed; otherwise contact engineering. TOOHO, SB 6750' 2-3/8" tubing, and LD retrieving head.
13 MIRU WL. Run a CBL from 7900' to surface. Forward results to Tod.Haanes@Anadarko.com in Evans Engineering.
14 NOTE: Depending upon what is learned from the CBL, the design may change from here forward.
15 PU and RIH with two 1' 3-1/8" perf guns with 3 spf, 0.50" EHD, 120° phasing. Shoot 1' of squeeze holes at 7080' and 6720'. RD WL.
16 RU 4-1/2" CICR and RIH on 2-3/8" tubing to set CICR at 6750'.
17 RU Cementers. Establish circulation through squeeze holes. Pump Niobrara suicide squeeze: 110 sxs (183 cf) 1:1:3 'Poz G Gel'+20% silica+0.4% CFL-3+0.4% CFR-2+0.1% SMS, mixed at 13.5 ppg & 1.66 cf/sk. Under-displace by 2 bbls and un-sting from CICR spotting a minimum of 100' cement on top of the squeeze holes. The plug will cover 7080' - 6620'. Volume is based on 360' in 9.0" OH from caliper with 20% excess, and 460' in 4-1/2" production casing with no excess. RD cementers.
18 Un-sting and slowly pull out of the cement. PUH to 6400' and circulate tubing clean to ensure no cement is left in the tubing. TOOHO and SB 820' 2-3/8" tubing.
19 RU WL. PU and RIH with two 1' 3-1/8" perf guns with 3 spf, 0.50" EHD, 120° phasing. Shoot 1' of squeeze holes at 1302' and 790'. RD WL.
20 RU 4-1/2" CICR and RIH on 2-3/8" tubing to set CICR at 820'.
21 RU Cementers. Establish circulation through squeeze holes, and precede cement with 10 bbls SAPP and a 20 bbl water spacer. Pump Fox Hills suicide squeeze: 320 sxs (426 cf) Type III+0.3% CFL-3+0.3% CFR-2+0.25 lb/sk Polyflake, mixed at 14.8 ppg & 1.33 cf/sk. Under-displace by 2 bbls and un-sting from CICR spotting at least 100' cement on top of the squeeze holes. The plug will cover from 1302' to 690'. Volume is based on 512' in 10.75" OH from caliper with 40% excess, and 612' in 4-1/2" production casing with no excess. RD cementers.

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:

<u>Best Management Practices</u>	
<u>No BMP/COA Type</u>	<u>Description</u>

Operator Comments:

22 Un-sting and slowly pull out of the cement. PUH to 500' and circulate tubing clean to ensure no cement is left in the tubing. TOO H and SB 2-3/8" tubing.
 23 ND BOP.
 24 ND existing tubing head off of 4.5" casing. Install new WHI 5,000 psi flanged tubing head complete with 5,000 psi casing valves and Double-X Heavy nipples. Be sure all wellhead equipment is rated to 5,000 psi.
 25 NU BOP.
 26 WOC per cement company recommendation (minimum of 18 hours). PU and RIH with 3-7/8" bit (csg drift dia = 3.875"). TIH to the top plug. Drill down to the CICR located at +/- 820'. Pressure test to 500 psi. If o.k., drill CICR and cement past lower perf located at 1302', and pressure test to 500 psi.
 27 TIH to the bottom plug. Drill down to the CICR located at +/- 6750'. Pressure test to 500 psi. If o.k., drill CICR and cement past lower perf located at 7080', and pressure test to 500 psi. TOO H, SB 2-3/8" tubing, and LD bit.
 28 RU WL. Run another CBL from +/- 7900' to the surface. Forward results to Tod.Haanes@Anadarko.com in Evans Engineering. RDMO WL.
 29 TIH with retrieving tool on 2-3/8" tubing to the RBP located at +/- 7900'.
 30 Circulate sand off RBP. Latch onto and release RBP. TOO H standing back all 2-3/8" tubing and LD RBP.
 31 MIRU hydrotester. PU 2-3/8" NC, 2-3/8" XN nipple (be sure nipple is correctly input into OpenWells), 2-3/8" 4.7# J-55 tubing, Arrowset AS-1X packer rated to 10,000 psi, and 2-3/8" 4.7# J-55 tbg to surface. Hydrotest tubing to 6,000 psi while TIH. Set the PKR below the new Niobrara TOC (in good cement) between collars. Contact Tod Haanes in Evans Engineering for help in determining the PKR setting location. RDMO hydrotester.
 32 Land EOT at +/- 7901' (+/- 30' above the top J-Sand perf).
 33 Load 2-3/8" x 4-1/2" annulus with biocide treated water and pressure test to 500 psi for 15 minutes to be sure packer is set properly.
 34 RU rig lubricator and broach tubing to the XN nipple with slickline. RD rig lubricator. ND BOP.
 35 Install 7-1/16" x 5,000 psi flanged tubing head adaptor with 5,000 psi flanged master valve. Make sure all WH valves are rated to 5,000 psi and all nipples are Double-X Heavy.
 36 Install 2-3/8" pup joint above the master valve. MIRU hydrotester. Pressure test the tubing head from below the tubing head through the master valve to 5,000 psi using hydrotester. RDMO hydrotester.
 37 RDMO WO rig. Return well to production team.
 38 END OF SAFETY PREP STEPS. BELOW ARE STEPS FOR UN-PREPPING THE WELL
 39 When notification is sent to un-prepare the well, MIRU WO rig. Kill well as necessary with biocide treated water. ND wellhead. NU BOP.
 40 Unland 2-3/8" tbg and LD landing joint.
 41 Release Arrowset AS-1X packer. TOO H standing back all 2-3/8" tubing and LD packer. Return packer to shop it was purchased from and have the packer redressed.
 42 MIRU slickline. Tag top of fill, and enter depth in Open Wells. RDMO slickline.
 43 PU 2-3/8" NC, 2-3/8" XN nipple (be sure nipple is correctly input into Open Wells), and 2-3/8" 4.7# J-55 tbg to surface. If a cleanout is not necessary, proceed to next step. Otherwise, clean out sand fill as deep as possible (J-Sand perms are located from 7931'-7953').
 44 Land EOT at +/- 7901' (+/- 30' above the top J-Sand perf).
 45 RU rig lubricator and broach tubing to the XN nipple with slickline. RD rig lubricator. ND BOP.
 46 Install 7-1/16" x 5,000 psi tubing head adaptor with 5,000 psi flanged master valve. Make sure all WH valves are rated to 5,000 psi and all nipples are Double-X Heavy.
 47 Install 2-3/8" pup joint above the master valve. MIRU hydrotester. Pressure test the tubing head from below the tubing head through the master valve to 5,000 psi using hydrotester. RDMO hydrotester. If wellhead does not pressure test, replace wellhead/wellhead valves as necessary with 5,000 psi rated equipment.
 48 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: _____

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

Att Doc Num

Name

400931823

OTHER

Total Attach: 1 Files