

FORM
2
Rev
08/13

State of Colorado
Oil and Gas Conservation Commission
1120 Lincoln Street, Suite 801, Denver, Colorado 80203
Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:
400762036
(SUBMITTED)

APPLICATION FOR PERMIT TO:

Drill Deepen Re-enter Recomplete and Operate

TYPE OF WELL OIL GAS COALBED OTHER UNPLANNED Refilling
ZONE TYPE SINGLE ZONE MULTIPLE ZONES COMMINGLE ZONES Sidetrack

Date Received:

Well Name: GREENLEAF Well Number: 16N-15HZX
Name of Operator: KERR MCGEE OIL & GAS ONSHORE LP COGCC Operator Number: 47120
Address: P O BOX 173779
City: DENVER State: CO Zip: 80217-3779
Contact Name: Cheryl Light Phone: (720)929-6461 Fax: (720)929-7461
Email: cheryl.light@anadarko.com

RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20010124

WELL LOCATION INFORMATION

QtrQtr: NWNE Sec: 15 Twp: 2N Rng: 65W Meridian: 6
Latitude: 40.145241 Longitude: -104.648553
Footage at Surface: 261 feet FNL/FSL FNL 2240 feet FEL/FWL FEL
Field Name: WATTENBERG Field Number: 90750
Ground Elevation: 4868 County: WELD
GPS Data:
Date of Measurement: 05/19/2012 PDOP Reading: 1.6 Instrument Operator's Name: BART PFEIFER
If well is Directional Horizontal (highly deviated) **submit deviated drilling plan.**
Footage at Top of Prod Zone: FNL/FSL FEL/FWL Bottom Hole: FNL/FSL FEL/FWL
692 FNL 764 FEL 460 FSL 805 FEL
Sec: 15 Twp: 2N Rng: 65W Sec: 15 Twp: 2N Rng: 65W

LOCATION SURFACE & MINERALS & RIGHT TO CONSTRUCT

Surface Ownership: Fee State Federal Indian
The Surface Owner is: is the mineral owner beneath the location.
(check all that apply) is committed to an Oil and Gas Lease.
 has signed the Oil and Gas Lease.
 is the applicant.
The Mineral Owner beneath this Oil and Gas Location is: Fee State Federal Indian
The Minerals beneath this Oil and Gas Location will be developed by this Well: Yes
The right to construct the Oil and Gas Location is granted by: Bond
Surface damage assurance if no agreement is in place: Blanket Surface Surety ID: 20010125

LEASE INFORMATION

Using standard QtrQtr, Sec, Twp, Rng format, describe one entire mineral lease that will be produced by this well (Describe lease beneath surface location if produced. Attach separate description page or map if necessary.)

See attached lease description.

Total Acres in Described Lease: 160 Described Mineral Lease is: Fee State Federal Indian

Federal or State Lease # _____

Distance from Completed Portion of Wellbore to Nearest Lease Line of described lease: 0 Feet

CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building: 531 Feet
Building Unit: 714 Feet
High Occupancy Building Unit: 5280 Feet
Designated Outside Activity Area: 5280 Feet
Public Road: 266 Feet
Above Ground Utility: 292 Feet
Railroad: 5280 Feet
Property Line: 250 Feet

INSTRUCTIONS:

- All measurements shall be provided from center of the Proposed Well to nearest of each cultural feature as described in Rule 303.a.(5).
- Enter 5280 for distance greater than 1 mile.
- Building - nearest building of any type. If nearest Building is a Building Unit, enter same distance for both.
- Building Unit, High Occupancy Building Unit, and Designated Outside Activity Area - as defined in 100-Series Rules.

DESIGNATED SETBACK LOCATION INFORMATION

Check all that apply. This location is within a: Buffer Zone
 Exception Zone
 Urban Mitigation Area

- Buffer Zone – as described in Rule 604.a.(2), within 1,000' of a Building Unit
- Exception Zone - as described in Rule 604.a.(1), within 500' of a Building Unit.
- Urban Mitigation Area - as defined in 100-Series Rules.

Pre-application Notifications (required if location is within 1,000 feet of a building unit):

Date of Rule 305.a.(1) Urban Mitigation Area Notification to Local Government: _____

Date of Rule 305.a.(2) Buffer Zone Notification to Building Unit Owners: _____

SPACING and UNIT INFORMATION

Distance from Completed Portion of Wellbore to Nearest Wellbore Permitted or Completed in the same formation: 256 Feet

Distance from Completed Portion of Wellbore to Nearest Unit Boundary 460 Feet (Enter 5280 for distance greater than 1 mile.)

Federal or State Unit Name (if appl): _____ Unit Number: _____

SPACING & FORMATIONS COMMENTS

Unit Configuration: 2N 65W 15: E/2E/2

OBJECTIVE FORMATIONS

Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
NIOBRARA	NBRR		160	GWA

DRILLING PROGRAM

Proposed Total Measured Depth: 11711 Feet

Distance to nearest permitted or existing wellbore penetrating objective formation: _____ Feet (Including plugged wells)

Will a closed-loop drilling system be used? Yes

Is H₂S gas reasonably expected to be encountered during drilling operations at concentrations greater than or equal to 100 ppm? No (If Yes, attach an H₂S Drilling Operations Plan)

OPERATOR COMMENTS AND SUBMITTAL

Comments

UNPLANNED SIDETRACK
APD NEEDS TO BE APPROVED PRIOR TO STARTING OPERATIONS PER DIANA BURN 12/31/14.

Upon drilling out the intermediate casing shoe, we encountered a larger fault than anticipated placing us well within the SSPG formation. We drilled approximately 450' of SSPG. Drilling continued operations for another couple hundred feet until unable to drill ahead efficiently. Decision was made to trip for a slick BHA assembly to try and drill ahead. Once drilling commenced with the new assembly, they were unable to drill past the fault at 7680' MD. Decision was then made to trip out of hole and prepare a temporary abandonment procedure.

a. Total measured depth reached (also have TVD)

i. MD Reached: 8,783'

ii. TVD: ~6,953'

b. Casing sizes set and measured depth

Surface Casing: 1. OD- 9.625"

2. ID- 8.921"

3. Set Depth- 779' MD; 779' TVD

Intermediate Casing: 1. OD- 7"

2. ID- 6.276"

3. Set Depth- 7,516' MD; ~6,940' TVD

c. Type of cement you will be using including weight, yield, and sacks. If an openhole sidetrack make that point clear

i. Per our previous conversation with Diana Burn, we already set a 600' 17# 0.99 yield (129 sack) cement plug from 7660' MD

to approximately 7060' MD. We then tripped up to above KOP and set a composite bridge plug at approximately 6150' MD

as a second form of isolation for the well during the T&A.

ii. For the sidetrack itself, we will be performing a cased hole whipstock sidetrack using a 7" Baker Hughes PathMaker

Whipstock and a PathMaster PDC Formation Mill. We will mill our casing window, trip for a drilling assembly and drill

curve and lateral to TD using SBM.

d. Measured depth and TVD of sidetrack point: i MD of Sidetrack: ~5,635'

ii. TVD of Sidetrack: ~5,402'

e. Proposed target formation of sidetrack hole if different than permitted - Targeting the Niobrara "C" Chalk formation

Drill to the planned TD of 11,711' MD. BHL changed 100' to the West for AC concerns (460' FSL & 805' FEL).

f. A hand drawing of wellbore including where cement will be, fish is, and sidetrack will be Attached

This application is in a Comprehensive Drilling Plan _____ CDP #: _____

Location ID: 318488

Is this application being submitted with an Oil and Gas Location Assessment application? No

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 Date: _____ Email: DJREGULATORY@ANADARK

Based on the information provided herein, this Application for Permit-to-Drill complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved: _____ Director of COGCC _____ Date: _____

Expiration Date: _____

API NUMBER

05 123 37937 01

Conditions Of Approval

All representations, stipulations and conditions of approval stated in the Form 2A for this location shall constitute representations, stipulations and conditions of approval for this Form 2 Permit-to-Drill and are enforceable to the same extent as all other representations, stipulations and conditions of approval stated in this Permit-to-Drill.

Best Management Practices

No BMP/COA Type

Description

Attachment Check List

Att Doc Num

Name

400762104	DEVIATED DRILLING PLAN
400762113	WELL LOCATION PLAT
400762119	WELLBORE DIAGRAM
400762121	DIRECTIONAL DATA
400762131	CORRESPONDENCE

Total Attach: 5 Files

General Comments

User Group

Comment

Comment Date

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Total: 0 comment(s)

