

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:
400453768

APPLICATION FOR PERMIT TO:

Drill Deepen Re-enter Recomplete and Operate

Date Received:
11/19/2013

TYPE OF WELL OIL GAS COALBED OTHER Re-Plug
ZONE TYPE SINGLE ZONE MULTIPLE ZONES COMMINGLE ZONES

Refilling
Sidetrack

Well Name: Bradbury Well Number: 1
Name of Operator: NOBLE ENERGY INC COGCC Operator Number: 100322
Address: 1625 BROADWAY STE 2200
City: DENVER State: CO Zip: 80202
Contact Name: Andrea Rawson Phone: (303)228-4253 Fax: (303)228-4286
Email: arawson@nobleenergyinc.com

RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20030009

WELL LOCATION INFORMATION

QtrQtr: NENW Sec: 15 Twp: 9N Rng: 58W Meridian: 6
Latitude: 40.757625 Longitude: -103.851476

Footage at Surface: 330 feet FNL/FSL 2310 feet FEL/FWL

Field Name: Wildcat Field Number: 99999
Ground Elevation: 4707 County: WELD

GPS Data:
Date of Measurement: 04/25/2013 PDOP Reading: 6.0 Instrument Operator's Name: Noble Energy Inc.

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
Sec: Twp: Rng: Sec: Twp: Rng:

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: No

The right to construct the Oil and Gas Location is granted by: Surface Use Agreement

Surface damage assurance if no agreement is in place: Surface Surety ID:

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.)

T9N-R58W- Sec 15: S/2, SW/4NE/4, E/2NW/4, NW/4NW/4

Total Acres in Described Lease: 480 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: 330 Feet

CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building: 4358 Feet

Building Unit: 5280 Feet

High Occupancy Building Unit: 5280 Feet

Designated Outside Activity Area: 5280 Feet

Public Road: 1318 Feet

Above Ground Utility: 5280 Feet

Railroad: 5280 Feet

Property Line: 330 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: 577 Feet

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

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

SPACING & FORMATIONS COMMENTS

The Bradbury 1 DA well is located 577 ft. from a permitted Horizontal new drill, The Ficus Federal LD15-6HN. The Bradbury needs to be re-entered and re-plugged in accordance with COGCC policies for horizontal Niobrara development for WB Integrity.

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			

DRILLING PROGRAM

Proposed Total Measured Depth: 7813 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)

Will salt sections be encountered during drilling? No

Will salt based (>15,000 ppm Cl) drilling fluids be used? No

Will oil based drilling fluids be used? No

BOP Equipment Type: Annular Preventor Double Ram Rotating Head None

GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule N/A

DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: OFFSITE Drilling Fluids Disposal Methods: Recycle/reuse

Cuttings Disposal: OFFSITE Cuttings Disposal Method: Beneficial reuse

Other Disposal Description:

Beneficial reuse or land application plan submitted?

Reuse Facility ID: or Document Number:

CASING PROGRAM

Casing Type	Size of Hole	Size of Casing	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top
SURF	10+3/4	5+1/2	15	0	300	300	300	0

Conductor Casing is NOT planned

DESIGNATED SETBACK LOCATION EXCEPTIONS

Check all that apply:

- Rule 604.a.(1)A. Exception Zone (within 500' of Building Unit)
- Rule 604.b.(1)A. Exception Location (existing or approved Oil & Gas Location now within a Designated Setback as a result of Rule 604.a.)
- Rule 604.b.(1)B. Exception Location (existing or approved Oil & Gas Location is within a Designated Setback due to Building Unit construction after Location approval)
- Rule 604.b.(2) Exception Location (SUA or site-specific development plan executed on or before August 1, 2013)
- Rule 604.b.(3) Exception Location (Building Units constructed after August 1, 2013 within setback per an SUA or site-specific development plan)

GREATER WATTENBERG AREA LOCATION EXCEPTIONS

Check all that apply:

- Rule 318A.a. Exception Location (GWA Windows).
- Rule 318A.c. Exception Location (GWA Twinning).

RULE 502.b VARIANCE REQUEST

Rule 502.b. Variance Request from COGCC Rule or Spacing Order Number

OTHER LOCATION EXCEPTIONS

Check all that apply:

- Rule 318.c. Exception Location from Rule or Spacing Order Number
- Rule 603.a.(2) Exception Location (Property Line Setback).

ALL exceptions and variances require attached Request Letter(s). Refer to applicable rule for additional required attachments (e.g. waivers, certifications, SUAs).

OPERATOR COMMENTS AND SUBMITTAL

Comments

A Form 2A is not required for this DA because no pit will be constructed and there will be no additional surface disturbance beyond the originally disturbed area. Purpose of re-entry is to adequately re-plug. Noble Energy Inc. will obtain the as built well location GPS and submit it on the form 6 Subsequent report of abandonment after plugging is completed.

PROCEDURE:

- 1) Survey and locate abandoned well, mark with stake
- 2) Excavate to expose top of surface casing
- 3) Weld 2" collar to top of 10 3/4" surface casing cap. Make up to collar, pneumatic drill with non-sparking bit. Drill out cap venting possible trapped gas.
- 4) Once verified that no gas exists beneath top of surface casing plate, cut off surface casing below plate with torch, dress up smooth.
- 5) Butt weld 10 3/4" casing to dressed cut, bringing threaded end of casing to ground level.
- 6) Make up to 10 3/4" casing, one 10 3/4" collar and 10 3/4" starter well head
- 7) NU flange adaptor and 5k BOP, test BOP.
- 8) NU and RIH with 6 7/8" cone bit, PU 2 7/8" drill collar, 2 7/8" 8.7# tubing, and TIW valve
- 9) Drill out first cement plug inside surface casing, roll hole clean. Verify top of next cement plug inside of surface casing by tagging.
- 10) If unable to verify isolation of surface casing with tag of cement plug, set RBP inside surface casing
- 11) Once isolation of surface casing is established, either with tagging of cement plug or setting of RBP, pressure test surface casing to 200psi
- 12) After pressure test of surface casing, retrieve RBP or continue drill out of cement plug under surface casing shoe.

- 13) Assume pressure under surface casing shoe, roll hole with kill fluid until well dead, or blow down.
- 14) Continue RIH, cleaning out with drilling mud or water to 3000'
- 15) TOOH with cone bit, drill collars, and 2 7/8" tubing.
- 16) PU and RIH with mule shoe and 2 7/8" tubing to 3000'.
- 17) RU cement crew and pump a balanced plug of 100sk 15.8 ppg Class G "neat" cement
- 18) POOH to 1150' (150' below deepest water well @ 1000')
- 19) RU cement crew and pump 498 sxs of 15.8ppg Class G "neat" cement bring cement to surface
- 20) POOH with 2 7/8" tubing. Wait 4 hrs, and tag TOC. If cement has fallen, top off back to surface
- 21) Let cement set over night, verify cement has not settled and is still at surface. RDMO
- 22) Excavate around wellhead to 8' below grade, cut off 10 3/4" casing, weld on cap
- 23) Backfill hole and reclaim surface to original conditions

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

Location ID: 405318

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: Andrea Rawson

Title: Regulatory Analyst I Date: 11/19/2013 Email: arawson@nobleenergyinc.com

Operator must have a valid water right or permit allowing for industrial use or purchased water from a seller that has a valid water right or permit allowing for industrial use, otherwise an application for a change in type of use is required under Colorado law. Operator must also use the water in the location set forth in the water right decree or well permit, otherwise an application for a change in place of use is required under Colorado law. Section 37-92-103(5), C.R.S. (2011).

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: *Matthew Lee* Director of COGCC Date: 12/11/2013

Expiration Date: 12/10/2015

API NUMBER

05 123 05679 00

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.

COA Type

Description

	1) Provide 24 hour notice of MIRU to Kym Schure by e-mail at Kym.Schure@state.co.us. 2) Set plugs as proposed. Proposed Plug #1: 100 sks at 3000'. Proposed Plug #2: 1150' to surface (est. 498 sks). 3) Submit Form 6 – Subsequent Report of Abandonment within 30 days of plugging in accordance with Rule 311. 4) Provide well location GPS coordinates on Subsequent Report of Abandonment in accordance with COGCC As-Built Location Policy and Rule 215.
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Best Management Practices

No BMP/COA Type

Description

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Applicable Policies and Notices to Operators

Notice Concerning Operating Requirements for Wildlife Protection.

Attachment Check List

Att Doc Num

Name

400453768	FORM 2 SUBMITTED
400515040	WELLBORE DIAGRAM
400515041	WELLBORE DIAGRAM
400515042	SURFACE AGRMT/SURETY
400515043	PROPOSED PLUGGING PROCEDURE

Total Attach: 5 Files

General Comments

User Group

Comment

Comment Date

Engineer	Operator states BOP will be double ram.	12/11/2013 2:02:17 PM
Engineer	Contacted operator regarding BOP none pg 3 -vs- 5k in procedure.	12/11/2013 12:49:02 PM
Permit	Copied plugging procedure into comments. Final Reviewi--passed.	12/11/2013 6:43:56 AM
Permit	Req'd plugging procedure to include in oper. comments.	12/9/2013 12:00:47 PM
Permit	Form passes completeness.	11/20/2013 7:22:17 AM

Total: 5 comment(s)