

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:

400888388

(SUBMITTED)

Date Received:

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 ☒

Well Name: Tigertail Federal

Well Number: 2-3H

Name of Operator: GRYNBERG* JACK DBA GRYNBERG PETROLEUM CO

COGCC Operator Number: 36200

Address: 3600 S. YOSEMITE ST - STE 900

City: DENVER

State: CO

Zip: 80237-1830

Contact Name: Richard Miller

Phone: (303)850-7490

Fax: (303)850-7498

Email: t.morris@grynberg.com

RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20100037

WELL LOCATION INFORMATION

QtrQtr: NWSE Sec: 2 Twp: 7N Rng: 64W Meridian: 6

Latitude: 40.600400

Longitude: -104.513760

Footage at Surface: 1982 feet FNL/FSL FSL 1985 feet FEL/FWL FEL

Field Name: WATTENBERG

Field Number: 90750

Ground Elevation: 4887

County: WELD

GPS Data:

Date of Measurement: 05/27/2014 PDOP Reading: 1.3 Instrument Operator's Name: Wyatt Hall

If well is ☐ Directional ☒ Horizontal (highly deviated) **submit deviated drilling plan.**

Footage at Top of Prod Zone: FNL/FSL FSL 1985 FEL 650 FNL 1985 FEL
Sec: 2 Twp: 7N Rng: 64W Sec: 2 Twp: 7N Rng: 64W

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: 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.)

Lots 1 & 2 of Section 2-T7N-R64W
S/2 NE of Section 2-T7N-R64W
SE/4 of Section 2-T7N-R64W

Total Acres in Described Lease: 320 Described Mineral Lease is: ☐ Fee ☐ State ☒ Federal ☐ Indian

Federal or State Lease # COC67169

Distance from Completed Portion of Wellbore to Nearest Lease Line of described lease: 660 Feet

CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building: 5280 Feet
Building Unit: 5280 Feet
High Occupancy Building Unit: 5280 Feet
Designated Outside Activity Area: 5280 Feet
Public Road: 5280 Feet
Above Ground Utility: 1945 Feet
Railroad: 4280 Feet
Property Line: 660 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: 2825 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

OBJECTIVE FORMATIONS

Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
NIOBRARA-CODELL	NB-CD			

DRILLING PROGRAM

Proposed Total Measured Depth: 9206 Feet

Distance to nearest permitted or existing wellbore penetrating objective formation: 1367 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 318A

DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: OFFSITE Drilling Fluids Disposal Methods: Commercial Disposal

Cuttings Disposal: OFFSITE Cuttings Disposal Method: Commercial Disposal

Other Disposal Description:

Beneficial reuse or land application plan submitted? Yes

Reuse Facility ID: _____ or Document Number: 400888345

CASING PROGRAM

Casing Type	Size of Hole	Size of Casing	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top
CONDUCTOR	20	16	40	0	40	50	40	
SURF	12+1/4	9+5/8	36	0	803	358	803	
1ST	8+3/4	7	26	0	7122	651	7122	
1ST LINER	6	4+1/2	11.6	6122	9206	170	9206	6122

☐ 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

The following information was provided by Richard Miller, Grynberg's Drilling Engineer:

The well was originally drilled as a Lyons test and no significant hydrocarbons were found. In order to utilize our investment we would like to drill a horizontal in the Niobrara. We called the COGCC and notified them of our intent to drill a horizontal Niobrara on Friday August, 21, 2015.

The total measured depth is 9430'. We were still drilling at the time when we notified the COGCC of our intent.

19 5/8" 36# J55 casing was set in a 13 1/2" hole at 803'. 53' deeper than the permit depth. Three barrels of cement were circulated to surface.

There is no fish left in the hole.

Proposed cement plugs for the 8 3/4" hole:

a. Abandonment Plug #1: 50' above / 50' below Top of Lyons (Mud Loggers Depth) -8908'.

Proposed Plug- 100' Height from 8958'- 8858', 70 sx Class G @15.8 PPG, 1.2 yield, cmt volume includes hole volume + 90% excess.

No 'D' Sand is identified in this well.

b. Abandonment Plug #2: 50' above / 50' below Top of J Sand (Mud Loggers Depth) -7530'.

Proposed Plug- 100' Height from 7580'- 7480', 65 sx Class G @15.8 PPG, 1.2 yield, cmt volume includes hole volume + 80% excess.

c. Abandonment Plug #3: 50' above / 50' below Top of Niobrara (Mud Loggers Depth) -6752'.

Proposed Plug- 100' Height from 6802'- 6702', 50 sx Class G @15.8 PPG, 1.2 yield, cmt volume includes hole volume + 60% excess.

d. Whipstock Plug #1: 150' above and 100' below the Kick Off Point of 6222'.

Proposed Plug- 250' Height from 6072'- 6322', 135 sx Class G @17.8 PPG, .94 yield, cmt volume includes hole volume + 20% excess.

Measured depth of the proposed sidetrack point is 6222.

New objective formation for the sidetrack is the Niobrara. The previous objective formation was the Lyons.

New BHL for the sidetrack is 650FNL, 1985FEL Section 2, 7N, R64W (in the same section as the surface hole but 2657 feet approx. due north). The abandoned well is a vertical well from the surface location.

NOTE: Grynberg is the mineral lease holder in the entire E 1/2 of this section. All minerals are Federal.

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

Location ID: 440294

Is this application being submitted with an Oil and Gas Location Assessment application? Yes

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: _____ Print Name: Ted Morris

Title: V.P. Date: _____ Email: t.morris@grynberg.com

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 40775 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.

Best Management Practices

No BMP/COA Type

Description

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Attachment Check List

Att Doc Num

Name

400888527	DEVIATED DRILLING PLAN
400888541	OTHER
400888544	DIRECTIONAL DATA
400888545	OTHER

Total Attach: 4 Files

General Comments

User Group

Comment

Comment Date

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Total: 0 comment(s)