

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:
400545177

APPLICATION FOR PERMIT TO:

Drill Deepen Re-enter Recomplete and Operate

Date Received:
01/24/2014

TYPE OF WELL OIL GAS COALBED OTHER _____
ZONE TYPE SINGLE ZONE MULTIPLE ZONES COMMINGLE ZONES

Refilling
Sidetrack

Well Name: SNOW KING Well Number: 13-33
Name of Operator: NIGHTHAWK PRODUCTION LLC COGCC Operator Number: 10399
Address: 1805 SHEA CENTER DR #290
City: HIGHLANDS RANCH State: CO Zip: 80129
Contact Name: Kyla Vaughan Phone: (505)635-5669 Fax: ()
Email: kvaughan@ltenv.com

RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20120011

WELL LOCATION INFORMATION

QtrQtr: SWSW Sec: 33 Twp: 6S Rng: 54W Meridian: 6
Latitude: 39.477500 Longitude: -103.451050

Footage at Surface: 312 feet FNL/FSL FEL/FWL
FSL 737 feet FWL

Field Name: WILDCAT Field Number: 99999

Ground Elevation: 5313.25 County: LINCOLN

GPS Data:
Date of Measurement: 01/13/2014 PDOP Reading: 2.8 Instrument Operator's Name: ELIJAH FRANE

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
620 FSL 640 FWL 620 FSL 640 FWL
Sec: 33 Twp: 6S Rng: 54W Sec: 33 Twp: 6S Rng: 54W

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.)

T6S, R54W, SEC 33:ALL

Total Acres in Described Lease: 640 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: 620 Feet

CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building: 2191 Feet
 Building Unit: 2269 Feet
 High Occupancy Building Unit: 5280 Feet
 Designated Outside Activity Area: 5280 Feet
 Public Road: 312 Feet
 Above Ground Utility: 5280 Feet
 Railroad: 5280 Feet
 Property Line: 312 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: 5280 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.)
ATOKA	ATOK			
CHEROKEE	CHRK			
LANSING-KANSAS CITY	LGKC			
MISSISSIPPIAN-SPERGEN	MS-SP			
MORROW	MRRW			
WOLFCAMP	WFCMP			

DRILLING PROGRAM

Proposed Total Measured Depth: 8500 Feet

Distance to nearest permitted or existing wellbore penetrating objective formation: 5225 Feet (Including plugged wells)

Will a closed-loop drilling system be used? No

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 609

DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: ONSITE Drilling Fluids Disposal Methods: Evaporation

Cuttings Disposal: ONSITE Cuttings Disposal Method: Drilling pit

Other Disposal Description:

BACKFILL WHEN DRY

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	12+1/4	8+5/8	24	0	350	122	350	0
1ST	7+7/8	5+1/2	17	0	8500	1049	8500	6000

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 CEMENT DESIGN:
12.0 PPG LEAD CEMENT DESIGNED TO SURFACE W/745 SACKS OF CEMENT.
13.0 PPG TAIL CEMENT DESIGNED TO 6000' W/304 SACKS OF CEMENT

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

Location ID: _____

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: Kyla Vaughan

Title: AGENT FOR NIGHTHAWK Date: 1/24/2014 Email: kvaughan@ltenv.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: 3/7/2014

Expiration Date: 03/06/2016

API NUMBER
05 073 06582 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.

<u>COA Type</u>	<u>Description</u>
	<p>1) Provide 48 hour notice prior to spud via electronic Form 42.</p> <p>2) If production casing is set provide cement coverage to at least 200' above shallowest completed interval and cement Cheyenne/Dakota interval: (5150'-4550' minimum). Run and submit CBL to verify cemented intervals.</p> <p>3) If well is a dry hole set plugs at the following depths: 40 sks cement +/- 50' above the Spergen, 40 sks cement +/- 50' above any DST w/ show, 40 sks cement at 5150' up, 40 sks cement at 4550' up, 50 sks cement from 50' below surface casing shoe up into surface casing, 15 sks cement in top of surface casing, cut 4 ft below GL, weld on plate, 5 sks cement each in rat hole and mouse hole.</p>
	<p>Open hole resistivity and gamma logs shall be run to describe the stratigraphy of the entire well bore and to adequately verify the setting depth of surface casing and aquifer coverage. On a multi-well pad, these open hole logs are only required on one of the first wells drilled on the pad and the Drilling Completion Report - Form 5 for every well on the pad shall identify which well was logged.</p>

Best Management Practices

<u>No BMP/COA Type</u>	<u>Description</u>
1 Construction	<p>Certificate to Discharge Under CDPHE General Permit No. COR-030000 Stormwater Discharges Associated with construction Certification No. COR031825</p> <p>Prior to construction, perimeter controls will be installed utilizing cuttings from the clearing operations.</p> <p>Once the well pad has been constructed a variety of BMP's shall be utilized for the site specific condtions.</p> <p>BMP's to be utilized may include, but are not limited to:</p> <ul style="list-style-type: none"> -Dirt Ditch/Berm -Erosion Control Blankets -Straw Bale Barrier -Straw Wattles -Seeding -Imported Hard Armor -Check Dams -Culvert/Culvert Protection -Crimped Straw -Silt Fence -Surface Roughening/Surface Rip <p>During construction, each site will be inspected every 14 days and 24-72 hours after any precipitation event causing erosion depending on the current site activities. These inspections will be recorded and maintained at Nighthawk's office. Repairs shall be completed as soon as possible after an inspection reporting BMP repairs are required. Any site specific modifications will be revised on the site plan when implemented at the site.</p> <p>A field wide Stormwater Management Plan (SWMP) for the Project Area is located at Nighthawk's office.</p> <p>Spill Protection Control and Countermeasures (SPCC) plans for the Project Area are stored on file at Nighthawk's office.</p> <p>The field wide SWMP address SPCC during construction operations.</p>

Total: 1 comment(s)

Applicable Policies and Notices to Operators

Notice Concerning Operating Requirements for Wildlife Protection.

Attachment Check List

Att Doc Num	Name
400545177	FORM 2 SUBMITTED
400545194	PLAT
400545195	WELL LOCATION PLAT
400545208	DEVIATED DRILLING PLAN
400545209	DIRECTIONAL DATA
400545298	SURFACE AGRMT/SURETY

Total Attach: 6 Files

General Comments

User Group	Comment	Comment Date
Engineer	changed TMD to 8500' in conervation with operator for final approval	3/7/2014 5:11:21 PM
Permit	Final review completed; no public comment received.	3/7/2014 2:40:55 PM
Permit	Revised distance to another well completed/permitted in the same formation and distance to another well penetrating the objective.	3/7/2014 2:37:12 PM
Permit	Building 2269' feet from well is a building unit. per operator.	2/11/2014 6:31:53 AM
Permit	Requested clarification on form 2A for building unit/building.	2/4/2014 9:38:49 AM
LGD	County Permit #1408	1/31/2014 1:32:07 PM
Permit	Passed completeness.	1/30/2014 10:28:51 AM
Permit	Returned to draft: Appropriate boxes not checked in Surface & Minerals tab for oil and gas lease to be the right to construct.	1/27/2014 12:54:10 PM

Total: 8 comment(s)