

FORM  
2A

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:

400507686

Date Received:

11/05/2013

Oil and Gas Location Assessment

☒ New Location    ☐ Refile    ☐ Amend Existing Location    Location#: \_\_\_\_\_

Submit signed original form. This Oil and Gas Location Assessment is to be submitted to the COGCC for approval prior to any ground disturbance activity associated with oil and gas operations. Approval of this Oil and Gas Location Assessment will allow for the construction of the below specified Location; however, it does not supersede any land use rules applied by the local land use authority. Please see the COGCC website at <http://cogcc.state.co.us/> for all accompanying information pertinent this Oil and Gas Location Assessment.

Location ID:

**435414**

Expiration Date:

**12/11/2016**

☒ This location assessment is included as part of a permit application.

CONSULTATION

- ☐ This location is included in a Comprehensive Drilling Plan. CDP # \_\_\_\_\_
- ☐ This location is in a sensitive wildlife habitat area.
- ☐ This location is in a wildlife restricted surface occupancy area.
- ☐ This location includes a Rule 306.d.(1)A.ii. variance request.

Operator

Operator Number: 10399

Name: NIGHTHAWK PRODUCTION LLC

Address: 1805 SHEA CENTER DR #290

City: HIGHLANDS RANCH State: CO Zip: 80129

Contact Information

Name: KYLA VAUGHAN

Phone: (505) 635.5669

Fax: ( )

email: KVAUGHAN@LTENV.COM

RECLAMATION FINANCIAL ASSURANCE

☒ Plugging and Abandonment Bond Surety ID: 20120011    ☐ Gas Facility Surety ID: \_\_\_\_\_

☐ Waste Management Surety ID: \_\_\_\_\_

LOCATION IDENTIFICATION

Name: JOHN CRAIG Number: 4-2

County: LINCOLN

QuarterQuarter: SWNW Section: 2 Township: 10S Range: 56W Meridian: 6 Ground Elevation: 5295

Define a single point as a location reference for the facility location. When the location is to be used as a well site then the point shall be a well location.

Footage at surface: 1303 feet FNL from North or South section line

1124 feet FWL from East or West section line

Latitude: 39.211570 Longitude: -103.636190

PDOP Reading: 2.9 Date of Measurement: 12/04/2012

Instrument Operator's Name: KEITHWESTFALL

## RELATED REMOTE LOCATIONS

(Enter as many Related Locations as necessary. Enter the Form 2A document # only if there is no established COGCC Location ID#)

**This proposed Oil and Gas Location is:**

**LOCATION ID # FORM 2A DOC #**

Well Site is served by Production Facilities

429843

## FACILITIES

Indicate the number of each type of oil and gas facility planned on location

|                      |   |                     |  |                      |  |                 |  |   |  |
|----------------------|---|---------------------|--|----------------------|--|-----------------|--|---|--|
| Wells                | 1 | Oil Tanks           |  | Condensate Tanks     |  | Water Tanks     |  | Buried Produced Water Vaults              |  |
| Drilling Pits        | 1 | Production Pits     |  | Special Purpose Pits |  | Multi-Well Pits |  | Temporary Large Volume Above Ground Tanks |  |
| Pump Jacks           | 1 | Separators          |  | Injection Pumps      |  | Cavity Pumps    |  |   |  |
| Gas or Diesel Motors | 1 | Electric Motors     |  | Electric Generators  |  | Fuel Tanks      |  | Gas Compressors                           |  |
| Dehydrator Units     |   | Vapor Recovery Unit |  | VOC Combustor        |  | Flare           |  | LACT Unit                                 |  |
|                      |   |                     |  |                      |  |                 |  | Pigging Station                           |  |

## OTHER FACILITIES

**Other Facility Type**

**Number**

|                 |   |
|-----------------|---|
| CHEMICAL BARREL | 1 |
| CHEMICAL PUMP   | 1 |

Per Rule 303.b.(3)C, description of all oil, gas, and/or water pipelines:

THERE WILL BE ONE 3' PIPELINE AND ONE 2" PIPELINE THAT WILL TRAVEL BACK TO THE JOHN CRAIG 6-2 WHERE PRODUCTION FACILITIES WILL BE UTILIZED FOR THE JOHN CRAIG 4-2.

## CONSTRUCTION

Date planned to commence construction: 12/16/2013 Size of disturbed area during construction in acres: 2.50  
Estimated date that interim reclamation will begin: 03/03/2014 Size of location after interim reclamation in acres: 1.00  
Estimated post-construction ground elevation: 5295

## DRILLING PROGRAM

Will a closed loop system be used for drilling fluids: No

Is H<sub>2</sub>S anticipated? No

Will salt sections be encountered during drilling: No

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

Will oil based drilling fluids be used? No

## DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: ONSITE Drilling Fluids Disposal Method: Evaporation

Cutting 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:

Centralized E&P Waste Management Facility ID, if applicable:

## SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name: JOHN FOSTER CRAIG III

Phone: \_\_\_\_\_

Address: PO BOX 902

Fax: \_\_\_\_\_

Address: \_\_\_\_\_

Email: \_\_\_\_\_

City: LIMON State: CO Zip: 80828

Surface Owner: ☒ Fee ☐ State ☐ Federal ☐ Indian

Check all that apply. The Surface Owner: ☒ is the mineral owner

☒ 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 from or produced to this Oil and Gas Location: Yes

The right to construct this Oil and Gas Location is granted by: oil and gas lease

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

Date of Rule 306 surface owner consultation 07/15/2013

## CURRENT AND FUTURE LAND USE

Current Land Use (Check all that apply):

Crop Land: ☐ Irrigated ☐ Dry land ☐ Improved Pasture ☐ Hay Meadow ☐ CRP

Non-Crop Land: ☒ Rangeland ☐ Timber ☐ Recreational ☐ Other (describe): \_\_\_\_\_

Subdivided: ☐ Industrial ☐ Commercial ☐ Residential

Future Land Use (Check all that apply):

Crop Land: ☐ Irrigated ☐ Dry land ☐ Improved Pasture ☐ Hay Meadow ☐ CRP

Non-Crop Land: ☒ Rangeland ☐ Timber ☐ Recreational ☐ Other (describe): \_\_\_\_\_

Subdivided: ☐ Industrial ☐ Commercial ☐ Residential

## 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: 5280 Feet  
Railroad: 5280 Feet  
Property Line: 1303 Feet

### INSTRUCTIONS:

- All measurements shall be provided from center of nearest Well or edge of nearest Production Facility to nearest of each cultural feature as described in Rule 303.b.(3)A.  
- 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: \_\_\_\_\_

## SOIL

List all soil map units that occur within the proposed location. attach the National Resource Conservation Service (NRCS) report showing the "Map Unit Description" report listing the soil typical vertical profile. This data is to be used when segregating topsoil.

The required information can be obtained from the NRCS web site at <http://soildatamart.nrcs.usda.org/> or from the COGCC web site GIS Online map page found at <http://colorado.gov/cogcc>. Instructions are provided within the COGCC web site help section.

NRCS Map Unit Name: 220 ACCESS DENIED

NRCS Map Unit Name: \_\_\_\_\_

NRCS Map Unit Name: \_\_\_\_\_

## PLANT COMMUNITY:

Complete this section only if any portion of the disturbed area of the location's current land use is on non-crop land.

Are noxious weeds present: Yes ☐ No ☒

Plant species from: ☐ NRCS or, ☒ field observation Date of observation: 01/18/2013

List individual species: \_\_\_\_\_

Check all plant communities that exist in the disturbed area.

- ☐ Disturbed Grassland (Cactus, Yucca, Cheatgrass, Rye)  
☒ Native Grassland (Bluestem, Grama, Wheatgrass, Buffalograss, Fescue, Oatgrass, Brome)  
☐ Shrub Land (Mahogany, Oak, Sage, Serviceberry, Chokecherry)  
☐ Plains Riparian (Cottonwood, Willow, Aspen, Maple, Poplar, Russian Olive, Tamarisk)  
☐ Mountain Riparian (Cottonwood, Willow, Blue Spruce)  
☐ Forest Land (Spruce, Fir, Ponderosa Pine, Lodgepole Pine, Juniper, Pinyon, Aspen)  
☐ Wetlands Aquatic (Bullrush, Sedge, Cattail, Arrowhead)  
☐ Alpine (above timberline)  
☐ Other (describe): \_\_\_\_\_

## WATER RESOURCES

Is this a sensitive area: ☐ No ☒ Yes

Distance to nearest

downgradient surface water feature: 3800 Feet

water well: 2100 Feet

Estimated depth to ground water at Oil and Gas Location 48 Feet

Basis for depth to groundwater and sensitive area determination:

PER COGCC, UPPER BIG SANDY AREA. THERE ARE NO WATER WELLS IN SECTION 2. WW WERE REVIEWED IN SEC 1/2, 35, 10 & 34 AS WELL AS TOPOGRAPHY, ELEVATION AND GRADIENT OF WELL TO DETERMINE ETIMATED DTW.

Is the location in a riparian area: ☒ No ☐ Yes

Was an Army Corps of Engineers Section 404 permit filed ☒ No ☐ Yes If yes attach permit.

Is the location within a Rule 317B Surface Water Supply Area buffer No zone:

If the location is within a Rule 317B Surface Water Supply Area buffer have all public water supply systems within 15 miles been notified: \_\_\_\_\_

## GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule 609

## 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)

## RULE 502.b VARIANCE REQUEST

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

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

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

Signed: \_\_\_\_\_ Date: 11/05/2013 Email: KVAUGHAN@LTENV.COM

Print Name: KYLA VAUGHAN Title: AGENT FOR NIGHTHAWK

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: 12/12/2013

### **Conditions Of Approval**

All representations, stipulations and conditions of approval stated in this Form 2A for this location shall constitute representations, stipulations and conditions of approval for any and all subsequent operations on the location unless this Form 2A is modified by Sundry Notice, Form 4 or an Amended Form 2A.

#### **COA Type**

#### **Description**

|  |  |
|--|--|
|  |  |
|--|--|

### **Best Management Practices**

#### **No BMP/COA Type**

#### **Description**

|   |              |   |
|---|--------------|---|
| 1 | Construction | <p>Certificate to Discharge Under CDPHE General Permit No. COR-03000<br/>Stormwater Dischargees Associated with Construction Certification No. COR031825<br/>Prior to construction, perimeter controls will be installed utilizing cuttings from the clearing operations.<br/>Once the well pad has been constructed a variety of BMP's shall be utilized for the site specific conditions.<br/>BMP's to be utilized may include, but are not limited to:</p> <ul style="list-style-type: none"><li>-Dirt Ditch/Berm</li><li>-Erosion Control Blankets</li><li>-Straw Bale Barrier</li><li>-Straw Wattles</li><li>-Seeding</li><li>-Imported hard Armor</li><li>-Check Dams</li><li>-Culvert/Culvert Protection</li><li>-Crimped Straw</li><li>-Silt Fence</li><li>-Surface Roughening/Surface Rip</li></ul> <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.<br/>A field wide Stormwater Management Plan (SWMP) for the Project Area is located at Nighthawk's office.<br/>Spill Protection Control and Countermeasures (SPCC) plans for the Project Area are stored on file at Nighthawk's office.<br/>The field wide SWMP addresses SPCC during construction operations.</p> |
|---|--------------|---|

Total: 1 comment(s)

### Attachment Check List

| <u>Att Doc Num</u> | <u>Name</u>             |
|--------------------|-------------------------|
| 400507686          | FORM 2A SUBMITTED       |
| 400507701          | LOCATION DRAWING        |
| 400507703          | NRCS MAP UNIT DESC      |
| 400507704          | HYDROLOGY MAP A, TOPO   |
| 400507705          | REFERENCE AREA MAP      |
| 400507706          | CONST. LAYOUT DRAWINGS  |
| 400507707          | REFERENCE AREA PICTURES |
| 400507708          | LOCATION PICTURES       |
| 400507709          | ACCESS ROAD MAP         |
| 400507710          | SURFACE AGRMT/SURETY    |

Total Attach: 10 Files

### General Comments

| <u>User Group</u> | <u>Comment</u>   | <u>Comment Date</u>      |
|-------------------|--|--------------------------|
| Permit            | Final review completed; no public comment received.  | 12/2/2013<br>9:14:05 AM  |
| OGLA              | OGLA task passed.  | 11/27/2013<br>7:51:02 AM |
| OGLA              | Revised distance to nearest water well and downgradient surface water feature. Review of USGS topo map and aerial photos shows a water well and stock tank approximately 2,100 feet southeast location. Review of USGS topo map shows an intermittent pond approximately 3,800 feet northeast of location. OGLA review complete. | 11/15/2013<br>1:49:19 PM |
| LGD               | County Permit #1385  | 11/6/2013<br>8:04:30 AM  |

Total: 4 comment(s)