

FORM  
2A

Rev  
04/01

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:

400293379

Date Received:

07/12/2012

Oil and Gas Location Assessment

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

Submit original plus one copy. This form is to be submitted to the COGCC prior to any ground disturbance activity associated with oil and gas development operations. This Assessment may be approved as a standalone application or submitted as an informational report accompanying an Application for Permit-To-Drill, Form 2. Approval of this 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. This form may serve as notice to land owners and other interested parties, please see the COGCC web site at <http://colorado.gov/cogcc/> for all accompanying information pertinent to this Oil and Gas Location Assessment.

Location ID:

**429843**

Expiration Date:

**08/06/2015**

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

1. 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.

2. Operator

Operator Number: 10399

Name: NIGHTHAWK PRODUCTION LLC

Address: 1805 SHEA CENTER DR #290

City: HIGHLANDS RANCH State: CO Zip: 80129

3. Contact Information

Name: CHUCK WILSON

Phone: (303) 407-9603

Fax: ( )

email: chuckwilson@nighthawkenergy.com

4. Location Identification:

Name: JOHN CRAIG Number: 6-2

County: LINCOLN

QuarterQuarter: SENW Section: 2 Township: 10S Range: 56W Meridian: 6 Ground Elevation: 5271

Define a single point as a location reference for the facility location. This point should be used as the point of measurement in the drawings to be submitted with this application. When the location is to be used as a well site then the point shall be a well location.

Footage at surface: 2038 feet FNL, from North or South section line, and 2267 feet FWL, from East or West section line.

Latitude: 39.209550 Longitude: -103.632190 PDOP Reading: 2.5 Date of Measurement: 05/29/2012

Instrument Operator's Name: KEITH WESTFALL

5. Facilities (Indicate the number of each type of oil and gas facility planned on location):

|  |   |  |  |  |
|--|---|--|--|--|
| Special Purpose Pits: <input type="text"/>           | Drilling Pits: <input type="text" value="1"/> | Wells: <input type="text" value="1"/>      | Production Pits: <input type="text"/>      | Dehydrator Units: <input type="text"/> |
| Condensate Tanks: <input type="text"/>               | Water Tanks: <input type="text" value="2"/>   | Separators: <input type="text" value="1"/> | Electric Motors: <input type="text"/>      | Multi-Well Pits: <input type="text"/>  |
| Gas or Diesel Motors: <input type="text" value="1"/> | Cavity Pumps: <input type="text"/>            | LACT Unit: <input type="text"/>            | Pump Jacks: <input type="text" value="1"/> | Pigging Station: <input type="text"/>  |
| Electric Generators: <input type="text"/>            | Gas Pipeline: <input type="text"/>            | Oil Pipeline: <input type="text"/>         | Water Pipeline: <input type="text"/>       | Flare: <input type="text" value="1"/>  |
| Gas Compressors: <input type="text"/>                | VOC Combustor: <input type="text"/>           | Oil Tanks: <input type="text" value="4"/>  | Fuel Tanks: <input type="text"/>           |  |

Other: \_\_\_\_\_

6. Construction:

Date planned to commence construction: 08/09/2012 Size of disturbed area during construction in acres: 2.50  
Estimated date that interim reclamation will begin: 11/15/2012 Size of location after interim reclamation in acres: 1.50  
Estimated post-construction ground elevation: 5271 Will a closed loop system be used for drilling fluids: Yes ☐ No ☒  
Will salt sections be encountered during drilling: Yes ☐ No ☒ Is H2S anticipated? Yes ☐ No ☒  
Will salt (>15,000 ppm TDS Cl) or oil based muds be used: Yes ☐ No ☒  
Mud disposal: Offsite ☐ Onsite ☒ Method: Land Farming ☐ Land Spreading ☐ Disposal Facility ☐  
Other: BACK FILL WHEN DRY

### 7. Surface Owner:

Name: \_\_\_\_\_ Phone: \_\_\_\_\_  
Address: \_\_\_\_\_ Fax: \_\_\_\_\_  
Address: \_\_\_\_\_ Email: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ Date of Rule 306 surface owner consultation: 07/10/2012  
Surface Owner: ☒ Fee ☐ State ☐ Federal ☐ Indian  
Mineral Owner: ☒ Fee ☐ State ☐ Federal ☐ Indian  
The surface owner is: ☒ the mineral owner ☒ committed to an oil and gas lease  
☒ is the executer of the oil and gas lease ☐ the applicant  
The right to construct the location is granted by: ☒ oil and gas lease ☐ Surface Use Agreement ☐ Right of Way  
☐ applicant is owner  
Surface damage assurance if no agreement is in place: ☐ \$2000 ☐ \$5000 ☐ Blanket Surety ID \_\_\_\_\_

### 8. Reclamation Financial Assurance:

☐ Well Surety ID: 20120012 ☐ Gas Facility Surety ID: \_\_\_\_\_ ☐ Waste Mgnt. Surety ID: \_\_\_\_\_

### 9. Cultural:

Is the location in a high density area (Rule 603.b.): Yes ☐ No ☒  
Distance, in feet, to nearest building: 5850, public road: 477, above ground utilit: 10016  
railroad: 8795, property line: 2038

### 10. 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

### 11. 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

### 12. Soils:

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.gov/> 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 AREAS

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

### 13. 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: 06/08/2012

List individual species: Blue Gamma, Needle and Thread, Prairie Thistle, Great Plains Yucca, Sand Sagebrush, Purple Threewain

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): \_\_\_\_\_

### 14. Water Resources:

Rule 901.e. may require a sensitive area determination be performed. If this determination is performed the data is to be submitted with the Form 2A.

Is this a sensitive area: ☒ No ☐ Yes Was a Rule 901.e. Sensitive Areas Determination performed: ☒ No ☐ Yes

Distance (in feet) to nearest surface water: 594, water well: 3017, depth to ground water: 47

Is the location in a riparian area: ☒ No ☐ Yes Was an Army Corps of Engineers Section 404 permit filed ☒ No ☐ Yes

Is the location within a Rule 317B Surface Water Supply Area buffer zone:

☒ No ☐ 0-300 ft. zone ☐ 301-500 ft. zone ☐ 501-2640 ft. 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: ☐ No ☐ Yes

### 15. Comments:

DGW RECEIPT #0369042

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

Signed: \_\_\_\_\_ Date: 07/12/2012 Email: kvaughan@ltenv.com

Print Name: KYLA VAUGHAN Title: AGENT FOR NIGHTHAWK PROD.

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: 8/7/2012

**CONDITIONS OF  
APPROVAL, IF ANY:**

**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.**

Due to the sandy nature of the soil on the location and the likelihood of wind erosion taking place on the pad the following COA will apply:

Best management practices (BMPs) should be utilized to minimize disturbance of the vegetative cover while constructing and operating the location and to aid soil stabilization and revegetation of the disturbed area during interim reclamation. Cut and fill slopes should be minimized to the greatest extent practicable. The BMPs may include, but shall not be limited to, the use of mulches and/or tackifiers, erosion control mats and/or blankets, appropriate seed mixes and/or soil amendments and any other practices necessary to prevent soil erosion by wind and stormwater, and to encourage the growth of desirable soil stabilizing vegetation. The perimeter of the pad and any cut/fill slopes should be stabilized immediately after construction is complete.

**Attachment Check List**

| Att Doc Num | Name               |
|-------------|--------------------|
| 2533646     | CORRESPONDENCE     |
| 2533647     | LOCATION PICTURES  |
| 2533648     | CORRESPONDENCE     |
| 400293379   | FORM 2A SUBMITTED  |
| 400293452   | LOCATION DRAWING   |
| 400293453   | ACCESS ROAD MAP    |
| 400293454   | HYDROLOGY MAP      |
| 400293456   | REFERENCE AREA MAP |
| 400293458   | LOCATION PICTURES  |
| 400293459   | NRCS MAP UNIT DESC |

Total Attach: 10 Files

**General Comments**

| <b><u>User Group</u></b> | <b><u>Comment</u></b>   | <b><u>Comment Date</u></b> |
|--------------------------|---|----------------------------|
| Permit                   | Final review completed; no LGD or public comment received.  | 3/6/2012 3:23:43 PM        |
| OGLA                     | The operator has provided a second location photo looking to the east of the location. The first photo supplied was of the ingress.   | 3/3/2012 8:03:25 AM        |
| OGLA                     | Ready to pass.  | 3/3/2012 7:38:31 AM        |
| OGLA                     | Nearest building is approximately 5850 feet east of the location. Operator had previously indicated an oil and gas facility (shed) at 288', COGCC made change on Form 2A.   | 7/13/2012 10:43:32 AM      |
| OGLA                     | Reference area pictures are included in the Location Pictures attachment.   | 7/13/2012 10:03:23 AM      |
| OGLA                     | The soils in this area have not been mapped by the NRCS. I have been to this area and it is my opinion that the soils are a Valent Sand. For the purposes of this application the Soils will assumed to be a Valent Sand. | 7/13/2012 8:18:54 AM       |
| Permit                   | Arthur Koepsell will look at the 220 Access Denied Areas to see if the area is mapped.<br><br>Related Form 2 SUA did not match the location, but it has been sent back to draft.  | 7/12/2012 2:28:27 PM       |

Total: 7 comment(s)

## BMP

| <u>Type</u>                 | <u>Comment</u>   |
|-----------------------------|--|
| Pre-Construction            | Operator will conduct baseline and follow-up groundwater sampling in accordance with the COGA SAP, dated November 15, 2011.  |
| Storm Water/Erosion Control | <p>Certificate to Discharge Under CDPHE General Permit No. COR-030000<br/>Stormwater Discharges 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. 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 on Nighthawk's Stormwater Database/Website.<br/>Repairs shall be completed as soon as possible after an inspection reporting BMP repairs are required.<br/>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 Jolly Ranch Project Area is located at Nighthawk's office and can be obtained from Nighthawk's stormwater website.<br/>Spill Protection Control and Countermeasures (SPCC) plans for the Jolly Ranch Project Area are stored on file at Nighthawk's office. The field wide SWMP address SPCC during construction operations.</p> |

Total: 2 comment(s)