

**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:

400489828

Date Received:

10/25/2013

**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:

**435480**

Expiration Date:

**12/15/2016**☒ 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: ARIKAREE CREEK SWD

Number: 1

County: LINCOLN

QuarterQuarter: LOT 2    Section: 15    Township: 6S    Range: 54W    Meridian: 6    Ground Elevation: 5223

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: 685 feet FNL from North or South section line

610 feet FEL from East or West section line

Latitude: 39.533880    Longitude: -103.418910

PDOP Reading: 1.8    Date of Measurement: 07/19/2013

Instrument Operator's Name: KEITH WESTFALL

## 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 #**

Production Facilities Location serves Well(s)

400507018

## FACILITIES

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

Wells	2	Oil Tanks	4	Condensate Tanks		Water Tanks	4	Buried Produced Water Vaults	
Drilling Pits	2	Production Pits		Special Purpose Pits		Multi-Well Pits		Temporary Large Volume Above Ground Tanks	
Pump Jacks		Separators	1	Injection Pumps		Cavity Pumps			
Gas or Diesel Motors		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 TANK	1
CHEMICAL PUMP	1

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

There are no water/pipelines to this location. Water will be trucked.

## CONSTRUCTION

Date planned to commence construction: 12/02/2013      Size of disturbed area during construction in acres: 2.50  
Estimated date that interim reclamation will begin: 03/01/2014      Size of location after interim reclamation in acres: 1.50  
Estimated post-construction ground elevation: 5223

## 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: <u>ROHRBAUGH INTEREST, LLLP</u>	Phone: _____
Address: <u>29640 COUNTY ROAD 3U</u>	Fax: _____
Address: _____	Email: _____
City: <u>GENOA</u> State: <u>CO</u> Zip: <u>80818</u>	

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: No

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

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

Date of Rule 306 surface owner consultation 09/27/2013

### CURRENT AND FUTURE LAND USE

#### Current Land Use (Check all that apply):

Crop Land:	<input type="checkbox"/> Irrigated <input type="checkbox"/> Dry land	<input type="checkbox"/> Improved Pasture <input type="checkbox"/> Hay Meadow	<input type="checkbox"/> CRP
Non-Crop Land:	<input checked="" type="checkbox"/> Rangeland <input type="checkbox"/> Timber	<input type="checkbox"/> Recreational <input type="checkbox"/> Other (describe): _____	
Subdivided:	<input type="checkbox"/> Industrial <input type="checkbox"/> Commercial	<input type="checkbox"/> Residential	

#### Future Land Use (Check all that apply):

Crop Land:	<input type="checkbox"/> Irrigated <input type="checkbox"/> Dry land	<input type="checkbox"/> Improved Pasture <input type="checkbox"/> Hay Meadow	<input type="checkbox"/> CRP
Non-Crop Land:	<input checked="" type="checkbox"/> Rangeland <input type="checkbox"/> Timber	<input type="checkbox"/> Recreational <input type="checkbox"/> Other (describe): _____	
Subdivided:	<input type="checkbox"/> Industrial <input type="checkbox"/> Commercial	<input type="checkbox"/> 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: 610 Feet  
Above Ground Utility: 5280 Feet  
Railroad: 5280 Feet  
Property Line: 610 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: 213 WELD SILT LOAM

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: \_\_\_\_\_

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: 1495 Feet

water well: 5316 Feet

Estimated depth to ground water at Oil and Gas Location 100 Feet

Basis for depth to groundwater and sensitive area determination:

NORTHERN HIGH PLAINS PER COGCC. THERE ARE NO WATER WELLS IN SECTION 15. WATER WELLS WERE REVIEWED IN SECTION 9, 16 & 21. DTW RANGES FROM 104'-130'. REVIEWED EXISTING WATER WELLS, TOPO, GRAIDENT AND FLOW, ESTIMATED DTW WAS DETERMINED.

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: 10/25/2013 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: 12/16/2013

### **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**

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### **Best Management Practices**

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

#### **Description**

1	Construction	<p>Certificate to Discharge Under CDPHE General Permit No. COR-030000.</p> <p>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 conditions.</p> <p>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.</p> <p>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 addresses SPCC during construction operations.</p>
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Total: 1 comment(s)

## Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
1667983	CORRESPONDENCE
400489828	FORM 2A SUBMITTED
400489843	ACCESS ROAD MAP
400489844	CONST. LAYOUT DRAWINGS
400489845	HYDROLOGY MAP A, TOPO
400489846	LOCATION PICTURES
400489847	REFERENCE AREA MAP
400489848	REFERENCE AREA PICTURES
400489849	LOCATION DRAWING
400489850	SURFACE AGRMT/SURETY
400502743	NRCS MAP UNIT DESC

Total Attach: 11 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final review completed; no public comment received.	12/10/2013 3:28:52 PM
OGLA	IN PROCESS - Operator provided a revised Facilities list that now includes the SNOWBIRD 1-15 well. OGLA review complete and task passed.	12/10/2013 8:34:09 AM
OGLA	Requested a revised Facilities list because the SNOWBIRD 1-15 well is also on this location. Due by 12/18/13.	11/18/2013 11:27:02 AM
Permit	This pad is being shared by another well. (Snowbird) Facilities list is incorrect.	11/6/2013 7:39:45 AM
LGD	County Permit #1378	10/29/2013 7:53:43 AM
Permit	This form has passed completeness.	10/28/2013 2:30:04 PM
Permit	Returned to draft: 1) Must have comment regarding pipelines or flow lines.	10/28/2013 9:25:45 AM

Total: 7 comment(s)