

**FORM  
2A**Rev  
04/01**State of Colorado  
Oil and Gas Conservation Commission**

1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109



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Document Number:

400193778

**Oil and Gas Location Assessment**☐ New Location☒ Amend Existing Location Location#: 419408

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:

**419408**

Expiration Date:

**09/13/2014**☒ 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: 10323Name: ENTEK GRB LLCAddress: 535 16TH STREET #620City: DENVER State: CO Zip: 80202**3. Contact Information**Name: Kimberly RodellPhone: (303) 820-4480Fax: (303) 820-4124email: kim@banko1.com**4. Location Identification:**Name: SD FederalNumber: 24-9DLCounty: MOFFATQuarterQuarter: NESE Section: 24 Township: 12N Range: 89W Meridian: 6 Ground Elevation: 7050

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: 2257 feet FSL, from North or South section line, and 431 feet FEL, from East or West section line.Latitude: 40.979345 Longitude: -107.319226 PDOP Reading: 3.8 Date of Measurement: 05/06/2010Instrument Operator's Name: Dave Fehringer**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" value="1"/>
Condensate Tanks:	<input type="text" value="2"/>	Water Tanks:	<input type="text" value="1"/>	Separators:	<input type="text" value="1"/>	Electric Motors:	<input type="text" value="1"/>	Multi-Well Pits:	<input type="text"/>
Gas or Diesel Motors:	<input type="text"/>	Cavity Pumps:	<input type="text"/>	LACT Unit:	<input type="text"/>	Pump Jacks:	<input type="text" value="1"/>	Pigging Station:	<input type="text" value="1"/>
Electric Generators:	<input type="text"/>	Gas Pipeline:	<input type="text" value="1"/>	Oil Pipeline:	<input type="text" value="1"/>	Water Pipeline:	<input type="text" value="1"/>	Flare:	<input type="text" value="1"/>
Gas Compressors:	<input type="text" value="1"/>	VOC Combustor:	<input type="text"/>	Oil Tanks:	<input type="text" value="1"/>	Fuel Tanks:	<input type="text"/>		
Other:	<input type="text"/>								

**6. Construction:**

Date planned to commence construction: 08/15/2011 Size of disturbed area during construction in acres: 3.13  
Estimated date that interim reclamation will begin: 02/15/2012 Size of location after interim reclamation in acres: 1.50  
Estimated post-construction ground elevation: 7047 Will a closed loop system be used for drilling fluids: Yes ☒  
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: Backfill and cover

## 7. Surface Owner:

Name: BLM Phone: 970-826-5000  
Address: 455 Emerson Street Fax: 970-826-5002  
Address: \_\_\_\_\_ Email: \_\_\_\_\_  
City: Craig State: CO Zip: 81625 Date of Rule 306 surface owner consultation: 07/07/2010  
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: 20090127 ☐ Gas Facility Surety ID: \_\_\_\_\_ ☐ Waste Mgmt. Surety ID: \_\_\_\_\_

## 9. Cultural:

Is the location in a high density area (Rule 603.b.): Yes ☐ No ☒  
Distance, in feet, to nearest building: 4500, public road: 468, above ground utilit: 5280  
, railroad: 5280, property line: 383

## 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 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: 28 Carbol-Irigul-Rock outcrop, complex 3 to 25 percent slopes, very stony

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: 08/04/2010

List individual species: Black sagebrush, Bluebunch wheatgrass, Prairie junegrass, Steambank wheatgrass, Western wheatgrass, Needle and thread, and Indian ricegrass.

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: 640, water well: 5890, depth to ground water: 80

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:

This amended Oil and Gas Location Assessment is being submitted to notify the Colorado Oil and Gas Conservation commission that Entek GRB LLC (Entek) plans to drill the SD Federal 24-9DL, API No. 05-081-076245, with a closed loop mud system. The approved Form 2A included a reserve pit which will be replaced by a cuttings pit with dimensions of 30'x30'x15'. Per the Bureau of Land Management, the surface management agency, the cuttings pit is not required to be lined. Entek plans on using an unlined cuttings pit and when contents are dry, will bury cuttings in pit and backfill. The revised Location Layout has been included with the amended OGLA filing.

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

Signed: Date: 08/10/2011 Email: kim@banko1.com

Print Name: Kimberly J. Rodell Title: Permit Agent

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: David S. Neslin Director of COGCC Date: 9/14/2011

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.**

**SITE SPECIFIC ADDITIONAL COAs:**

Reserve pit, or any other pit used to contain fluids (not cuttings), if constructed, must be lined; or a closed loop system (which operator has indicated on the Form 2A) must be implemented during drilling.

Flowback and stimulation fluids must be sent to tanks, separators, or other containment/filtering equipment before the fluids can be placed into any pipeline or pit located on the well pad or into tanker trucks for offsite disposal. The flowback and stimulation fluid tanks, separators, or other containment/filtering equipment must be placed on the well pad in an area with additional downgradient perimeter berming. The area where flowback fluids will be stored/reused must be constructed to be sufficiently impervious to contain any spilled or released material.

**Attachment Check List**

Att Doc Num	Name
400193778	FORM 2A SUBMITTED
400193806	CONST. LAYOUT DRAWINGS

Total Attach: 2 Files

**General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Permit	CORRECTED DISTANCE TO NEAREST BLDG.	9/13/2011 2:07:44 PM
DOW	<p>CPW, BLM and ENTEK visited this site on 7-28-11 and agreed to the follow BMPs;</p> <p>Where oil and gas operations must occur within 1.25 miles of Columbian sharp-tailed grouse leks or within other mapped Columbian sharp-tailed grouse breeding or summer habitat, conduct these activities the period between March 15and July 30.</p> <p>Pad construction and drilling operations should occur outside the sharp-tailed grouse breeding and nesting period March 15 to July 30.</p> <p>ENTEK agrees to conduct drilling activities - reentry for future, additional wells outside the period of March 15 to July 30.</p> <p>Daily operations should be scheduled and carried out between 9:00 a.m. and 4:00 p.m. during the period between March 15 and July 30.</p> <p>ENTEK agrees to use hospital grade mufflers for compressors, pump jacks or other motors necessary. Mufflers will be pointed upward to dissipate potential vibration.</p> <p>ENTEK will use topographical features and construct and earthen berm to provide visual concealment of facilities from known lek locations and as a noise suppressant.</p> <p>ENTEK will establish company guidelines to minimize wildlife mortality from vehicle collisions on roads.</p> <p>ENTEK will gate single purpose roads and restrict general public access to reduce traffic disruptions to wildlife.Per BLMs preference and direction.</p> <p>ENTEK will avoid using aggressive non-native grasses in Columbian sharp-tailed grouse habitat reclamation.</p> <p>ENTEK will match existing vegetation for interim and final reclamation.Or as directed by surface owner - BLM.</p> <p>If ENTEK does not use a closed-loop system for drilling, they will utreat waste water pits and any associated pit containing water that provides a medium for breeding mosquitos with Bti (Bacillus thuringiensis v. israelensis) or take other effective action to control mosquito larvae that may spread West Nile Virus to wildlife, especially grouse. June through September.</p> <p>CPW affirms that the lease stipulations and conditions of approval assigned to this permit by the BLM suffice to address wildlife habitat and mitigation concerns.</p> <p>Saturday, September 10, 2011 at 4:07 P.M.</p>	9/10/2011 4:06:28 PM
OGLA	Initiated/Completed OGLA Form 2A review on 08-25-11 by Dave Kubeczko; (previously reviewed and approved [09-21-2010] Form 2A#400077088). All COAs from the original approval remain in effect for this location (fluid containment, spill/release BMPs, cuttings low moisture, lined oit); in addition, placed flowback to tanks and lined pit/closed loop COAs on 08-25-11; passed by CDOW on 09-10-11 with operator agreed to and additional operator submitted (06-24-11) BMPs acceptable; passed OGLA Form 2A review on 09-13-11 by Dave Kubeczko; fluid containment, spill/release BMPs, flowback to tanks, tank berming, and lined pit/closed loop COAs.	8/25/2011 8:31:50 AM
Permit	Corrected typo in plugging bond.	8/10/2011 12:27:24 PM

Total: 4 comment(s)

## BMP

Type

Comment

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Total: 0 comment(s)