

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:
2237553

Date Received:
08/27/2012

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:
430234
Expiration Date:
09/20/2015

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: 10385
 Name: AUBURN OPERATING COMPANY LLC
 Address: PO BOX 50203
 City: MIDLAND State: TX Zip: 79710

3. Contact Information

Name: WILLIAM HEARD
 Phone: (432) 683-8000
 Fax: (432) 683-8250
 email: BHEARD@SIERRA-ENGINEERING.NET

4. Location Identification:

Name: BROWN 28-24-49 Number: 1
 County: BENT
 Quarter: NENE Section: 28 Township: 24S Range: 49W Meridian: 6 Ground Elevation: 3921
 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: 660 feet FNL, from North or South section line, and 660 feet FEL, from East or West section line.
 Latitude: 37.937900 Longitude: -102.907700 PDOP Reading: 3.1 Date of Measurement: 08/15/2012
 Instrument Operator's Name: R. GABRIEL

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

Special Purpose Pits: <input type="checkbox"/>	Drilling Pits: <input type="checkbox"/> 1	Wells: <input type="checkbox"/> 1	Production Pits: <input type="checkbox"/>	Dehydrator Units: <input type="checkbox"/>
Condensate Tanks: <input type="checkbox"/>	Water Tanks: <input type="checkbox"/> 2	Separators: <input type="checkbox"/> 1	Electric Motors: <input type="checkbox"/> 1	Multi-Well Pits: <input type="checkbox"/>
Gas or Diesel Motors: <input type="checkbox"/> 1	Cavity Pumps: <input type="checkbox"/>	LACT Unit: <input type="checkbox"/>	Pump Jacks: <input type="checkbox"/> 1	Pigging Station: <input type="checkbox"/>
Electric Generators: <input type="checkbox"/>	Gas Pipeline: <input type="checkbox"/> 1	Oil Pipeline: <input type="checkbox"/> 1	Water Pipeline: <input type="checkbox"/> 1	Flare: <input type="checkbox"/> 1
Gas Compressors: <input type="checkbox"/>	VOC Combustor: <input type="checkbox"/>	Oil Tanks: <input type="checkbox"/> 3	Fuel Tanks: <input type="checkbox"/> 1	

Other: _____

6. Construction:

Date planned to commence construction: 09/24/2012 Size of disturbed area during construction in acres: 4.00
 Estimated date that interim reclamation will begin: 05/01/2013 Size of location after interim reclamation in acres: 1.50
 Estimated post-construction ground elevation: 3921 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: _____

7. Surface Owner:
 Name: _____ Phone: _____
 Address: _____ Fax: _____
 Address: _____ Email: _____
 City: _____ State: _____ Zip: _____ Date of Rule 306 surface owner consultation: 08/15/2012
 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 20120089

8. Reclamation Financial Assurance:
 Well Surety ID: 20120086 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: 11000, public road: 660, above ground utilit: 4620
 , railroad: 40000, property line: 660

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: TRAVESSILLA-OLNEY SANDY LOAM, 1 TO 9 PER CENT SLOPES

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: _____

List individual species: SEE ATTACHED NRCS RANGELAND PRODUCTIVITY AND PLANT COMPOSITION LISTING

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: 200, water well: 460, depth to ground water: 380

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 Suppl 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:

THE LOCATION DOES NOT REQUIRE A VARIANCE FROM ANY OF THE RULES LISTED IN RULE 306 d.(1).(A).(ii). THE LOCATION IS NOT IN A RESTRICTED SURFACE OCCUPANCY AREA. THE LOCATION IS NOT IN A SENSITIVE WILDLIFE HABITAT AREA. THERE ARE NO VISIBLE IMPROVEMENTS WITHIN 400' OF LOCATION; WATER WELL 460' EAST OF LOCATION. NEAREST SURFACE WATER INDICATED AS BEING 200' FROM LOCATION IS A DRY WASH. LOCATION WILL BE BERMED(SP?) TO PREVENT RUNOFF INTO DRY WASH. REFERENCE AREA IS IMMEDIATELY ADJACENT TO LOCATION TO THE WEST. LOCATION PICTURES ADEQUATELY SHOW THE REFERENCE AREA. A SURFACE USE AGREEMENT WITH THE LANDOWNER IS PENDING, FINANCIAL ASSURANCE FOR SURFACE RECLAMATION IS ON FILE WITH COGCC.

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

Signed: _____ Date: 08/24/2012 Email: BHEARD@SIERRA-ENGINEERING.NET

Print Name: WILLIAM HEARD Title: DRILLING ENGINEER

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: 9/21/2012

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.

Prior to drilling, operator shall sample one well, spring, or surface water feature within a one (1) mile radius of the proposed oil and gas location. Testing preference shall be given to water wells and springs over surface water. The sample location shall be surveyed in accordance with Rule 215.

Initial baseline testing shall include laboratory analysis of pH, total dissolved solids (TDS), specific conductivity (SC), sodium adsorption ratio (SAR) calculation, calcium (Ca), potassium (K), magnesium (Mg), sodium (Na), arsenic (As), boron (B), barium (Ba), cadmium (Cd), chromium (Cr), copper (Cu), iron (Fe), manganese (Mn), lead (Pb), selenium (Se). All metals analyzed for total recoverable; bromide (Br), chloride (Cl), fluoride (F), sulfate (SO₄), alkalinity (total, HCO₃, and CO₃ – all expressed as CaCO₃), benzene, toluene, ethyl benzene, o-xylene, m- + p-xylene (BTEX), dissolved methane, diesel range organics (DRO), gasoline range organics (GRO). Sampling shall be performed by qualified individuals using methods consistent with commonly accepted environmental sampling procedures. Field observations such as pH, temperature, specific conductance, odor, water color, sediment, bubbles, and effervescence shall also be included.

If free gas or a dissolved methane concentration level greater than one (1) milligrams per liter (mg/l) is detected in a water well, gas compositional analysis and stable isotope analysis of the methane (carbon and deuterium) shall be performed to determine gas type (biogenic or thermogenic).

Copies of all test results described above shall be provided to the Director and the landowner where the water quality testing well is located within three (3) months of collecting the samples used for the test. The analytical data and surveyed sample locations shall also be submitted to the Director in an electronic data deliverable format approved by Director.

Operator must implement site-specific best management practices in accordance with good engineering practices, including, but not limited to, construction of a berm or diversion dike, site grading, or other comparable measures, sufficient to protect the intermittent stream located approximately 200 feet north of the oil and gas location from a release of drilling, completion, produced fluids, and chemical products.

Attachment Check List

Att Doc Num	Name
2237553	FORM 2A
2237554	HYDROLOGY MAP
2237555	ACCESS ROAD MAP
2237556	LOCATION PICTURES
2237557	WELL LOCATION PLAT
2237558	NRCS MAP UNIT DESC
2237559	NRCS MAP UNIT DESC
2237560	CONST. LAYOUT DRAWINGS
2237561	OTHER
2237562	LOCATION DRAWING
2533669	HYDROLOGY MAP
2533670	CORRESPONDENCE

Total Attach: 12 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Final Review	changed distance to railroad from 8 (miles) to 40000 (feet)	9/21/2012 10:21:37 AM
Permit	Final review completed; LGD comment received and addressed.	9/19/2012 9:22:15 AM
OGLA	Discussed location with the LGD; the operator and LGD have met to discuss access roads and general operations. The operator's proposed Access Road and oil and gas location as shown on the attached maps will not encroach the intermittent stream bed identified to be 200 feet north of the location. The operator will post permanent signage in accordance with COGCC Rule 210.b. (2), which satisfies the LGD request.	9/14/2012 2:28:32 PM
LGD	The intermittent stream bed that is running along the North side of S28, T24S, R49W, is considered a Zone B Special Flood Hazard Area. We would like the entry to the drill site posted at the main county road that is being branched off of; with the name of the site, name of the operator and emergency contact information; visible from 100 feet. Much success on this venture may it be productive	9/6/2012 9:22:08 AM
OGLA	Ready to pass 9/19/2012.	9/4/2012 1:09:23 PM
OGLA	The pit is for cuttings disposal.	9/4/2012 11:19:06 AM
OGLA	The location is in close proximity to surface water (approximatley 200 feet) therefore it is considered a sensitive area. The sensitive area has been changed to yes.	9/4/2012 9:43:06 AM
Permit	Changed distance to public road. Our database shows the road to the North as a public road.	8/30/2012 8:12:13 AM
Permit	Corrected bond id#s and added date planned to commence construction per operator.	8/29/2012 9:50:59 AM
Data Entry	CONSTRUCTION: DATE PLANNED CONSTRUCTION OMITTED BY OPERATOR.	8/28/2012 10:27:50 AM

Total: 10 comment(s)

BMP

<u>Type</u>	<u>Comment</u>

Total: 0 comment(s)