

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:  
400428487

Date Received:  
06/10/2013

Oil and Gas Location Assessment

New Location  Amend Existing Location Location#: 430308

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:  
**430308**  
Expiration Date:  
**08/22/2016**

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: 96155  
Name: WHITING OIL AND GAS CORPORATION  
Address: 1700 BROADWAY STE 2300  
City: DENVER State: CO Zip: 80290

3. Contact Information

Name: Vallen Brock  
Phone: (303) 837-1661 x 1678  
Fax: ( )  
email: vallen.brock@whiting.com

4. Location Identification:

Name: Razor Number: 26K Pad  
County: WELD  
Quarter: NESW Section: 26 Township: 10N Range: 58W Meridian: 6 Ground Elevation: 4738  
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: 2449 feet FSL, from North or South section line, and 1949 feet FWL, from East or West section line.  
Latitude: 40.809092 Longitude: -103.834644 PDOP Reading: 1.4 Date of Measurement: 03/18/2013  
Instrument Operator's Name: Jeremy Harris

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"/>	Wells: <input type="text" value="8"/>	Production Pits: <input type="checkbox"/>	Dehydrator Units: <input type="checkbox"/>
Condensate Tanks: <input type="checkbox"/>	Water Tanks: <input type="text" value="1"/>	Separators: <input type="text" value="1"/>	Electric Motors: <input type="checkbox"/>	Multi-Well Pits: <input type="checkbox"/>
Gas or Diesel Motors: <input type="checkbox"/>	Cavity Pumps: <input type="checkbox"/>	LACT Unit: <input type="checkbox"/>	Pump Jacks: <input type="text" value="8"/>	Pigging Station: <input type="checkbox"/>
Electric Generators: <input type="checkbox"/>	Gas Pipeline: <input type="checkbox"/>	Oil Pipeline: <input type="checkbox"/>	Water Pipeline: <input type="checkbox"/>	Flare: <input type="text" value="1"/>
Gas Compressors: <input type="checkbox"/>	VOC Combustor: <input type="text" value="1"/>	Oil Tanks: <input type="text" value="4"/>	Fuel Tanks: <input type="checkbox"/>	

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

6. Construction:

Date planned to commence construction: 06/20/2013 Size of disturbed area during construction in acres: 4.00  
 Estimated date that interim reclamation will begin: 12/31/2013 Size of location after interim reclamation in acres: 2.00  
 Estimated post-construction ground elevation: 4738 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: \_\_\_\_\_  
 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: 20030110  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: 5280, public road: 5280, above ground utility: 5280,  
 railroad: 5280, property line: 1949

**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: 66 Thedalund-Keota loams

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: 03/18/2013  
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): \_\_\_\_\_

### 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: 1600, water well: 2773, depth to ground water: 37  
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:

Water Well Permit 78166 Reference Area map not included due to attached Reference Area Pictures being immediately adjacent to the pad.

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

Signed: \_\_\_\_\_ Date: 06/10/2013 Email: vallen.brock@whiting.com

Print Name: Vallen Brock Title: Regulatory Analyst

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: 8/23/2013

**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.

**COA Type**

**Description**

--	--

**Attachment Check List**

**Att Doc Num**

**Name**

1667721	CORRESPONDENCE
1667749	CORRESPONDENCE
400428487	FORM 2A SUBMITTED
400429287	ACCESS ROAD MAP
400429289	NRCS MAP UNIT DESC
400429306	WASTE MANAGEMENT PLAN
400429475	LOCATION DRAWING
400429476	CONST. LAYOUT DRAWINGS
400429478	LOCATION PICTURES
400430992	REFERENCE AREA PICTURES
400431049	HYDROLOGY MAP
400433144	WELL LOCATION PLAT
400433223	MULTI-WELL PLAN
400433225	SURFACE AGRMT/SURETY

Total Attach: 14 Files

**General Comments**

**User Group**

**Comment**

**Comment Date**

Permit	Final Review Completed. No LGD or public comment received.	8/20/2013 7:54:59 AM
OGLA	Per operator, changed mud disposal back to Offsite Disposal Facility and removed statement in BMPs about treated drill cuttings being spread on the well site and incorporated into reclamation fill material. OGLA review complete and task passed.	8/19/2013 4:10:38 PM
OGLA	Per operator, changed number of Oil Tanks in the Facilities list from 3 to 4.	3/7/2013 3:10:36 PM
OGLA	Discuss waste management sampling program with operator.	6/25/2013 10:47:47 AM
Permit	Initial review complete. Form 2 and 2A compared.	6/25/2013 6:34:21 AM
OGLA	Per Operator, changed post-construction ground elevation to 4,738 feet, changed mud disposal to Onsite - other, changed distance to nearest surface water to 1,600 feet, and removed BMP about operator participating in the COGA Voluntary Baseline Groundwater Sampling Program as COGCC Rule 609 is in effect. OGLA review complete	6/24/2013 10:34:59 AM
Permit	This form has passed completeness.	6/14/2013 9:34:00 AM
Permit	Returned to draft: Missing the multiwell plan. Need reference area map. Need SUA attached or a statement that the SUA is attached to the APD's. The right to construct is the SUA or the bond but not both. (the surface bond number is incorrect also)	6/11/2013 6:55:55 AM

Total: 8 comment(s)

## Best Management Practices

No	BMP/COA Type	Description
1	Storm Water/Erosion Control	Stormwater management plans (SWMP) are in place to address construction, drilling and operations associated with oil and gas development throughout the State of Colorado. BMPs will be constructed as necessary to prevent stormwater from leaving the construction site. BMPs used will vary according to the location, and will remain until the pad is reclaimed
2	Material Handling and Spill Prevention	<p>Spill Prevention Control and Countermeasures (SPCC) plans are in place to address any possible spill associated with oil and gas operations throughout the State of Colorado.</p> <ul style="list-style-type: none"> <li>• Materials and fluids will be stored in a neat and orderly fashion.</li> <li>• Waste will be collected regularly and disposed of at an offsite facility.</li> <li>• Prompt cleanup is required of spills to minimize waste materials entering the stormwater runoff.</li> <li>• Drip pans will be used during fueling and maintenance to contain spills or leaks.</li> <li>• Cleanup of trash and discarded material will be done at the end of the work day.</li> <li>• Cleanup will consist of monitoring the road, location and any other work areas.</li> <li>• Material to be cleaned up includes trash, scrap, and contaminated soil.</li> </ul>
3	Construction	<p>ALL CUTTINGS SHALL BE MIXED ON LOCATION UTILIZING THE SPECIALIZED CDU MIXING MACHINE WHERE THE CUTTINGS ARE MIXED WITH GEOZORB – AN ENGINEERED ABSORBENT ORGANIC MATERIAL, DRYLET MBB – A BIOREMEDIATION ADDITIVE FOR DECOMPOSITION OF HYDROCARBONS, AND BIOCOMPLETE – A BIOREMEDIATION ADDITIVE FOR DECOMPOSITION OF SALTS. THE STOCKPILE OF CUTTINGS ON LOCATION MIXED WITH GEOZORB AND ADDITIVES WILL BE SAMPLED AND TESTED ACCORDING TO SYMMETRY OILFIELD SOLUTIONS PROTOCOL (ATTACHED) AND COGCC TABLE 910-1. A PERMANENT RECORD OF THE LABORATORY ANALYSIS SHALL BE MAINTAINED BY THE OPERATOR.</p>

Total: 3 comment(s)