

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:
400333492

Date Received:
10/10/2012

Oil and Gas Location Assessment

New Location Amend Existing Location Location#: 429584

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:
429584
Expiration Date:
11/09/2015

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: 10338
Name: CARRIZO OIL & GAS INC
Address: 500 DALLAS STREET #2300
City: HOUSTON State: TX Zip: 77002

3. Contact Information

Name: Tina Taylor
Phone: (713) 328-1000
Fax: (713) 328-1060
email: tina.taylor@crzo.net

4. Location Identification:

Name: WEP Number: 28-11-3-64
County: ADAMS
Quarter: NWNW Section: 28 Township: 3S Range: 64W Meridian: 6 Ground Elevation: 5580

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: 400 feet FNL, from North or South section line, and 1134 feet FWL, from East or West section line.
Latitude: 39.767080 Longitude: -104.560470 PDOP Reading: 1.6 Date of Measurement: 05/11/2012
Instrument Operator's Name: Marc Woodard

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="checkbox" value="4"/>	Production Pits: <input type="checkbox"/>	Dehydrator Units: <input type="checkbox"/>
Condensate Tanks: <input type="checkbox"/>	Water Tanks: <input type="checkbox" value="1"/>	Separators: <input type="checkbox" value="2"/>	Electric Motors: <input type="checkbox" value="1"/>	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="checkbox"/>	Pigging Station: <input type="checkbox"/>
Electric Generators: <input type="checkbox"/>	Gas Pipeline: <input type="checkbox" value="1"/>	Oil Pipeline: <input type="checkbox"/>	Water Pipeline: <input type="checkbox"/>	Flare: <input type="checkbox" value="1"/>
Gas Compressors: <input type="checkbox"/>	VOC Combustor: <input type="checkbox"/>	Oil Tanks: <input type="checkbox" value="8"/>	Fuel Tanks: <input type="checkbox"/>	

Other: Heater Treater, Separators-one high pressure, one low pressure, Jet pump, Flare until pipeline connection ready.

6. Construction:

Date planned to commence construction: 11/01/2012 Size of disturbed area during construction in acres: 5.10
 Estimated date that interim reclamation will begin: 12/01/2013 Size of location after interim reclamation in acres: 1.00
 Estimated post-construction ground elevation: 5579 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: 20100108 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: 4103, above ground utilit: 5280
 , railroad: 5050, property line: 400

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: UIB Ulm loam, 1 to 3 percent slopes

NRCS Map Unit Name: TuB Truckton sandy loam, 1 to 3 percent slopes

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: _____

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: 750, water well: 775, depth to ground water: 282

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:

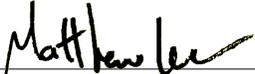
Nearest intermittent drainage NE 750'+. Water Well permit # 25649-F-R NE 4350'+ static water level = 282. Water Well Permit # 25685 775' SE.

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

Signed: _____ Date: 10/10/2012 Email: tina.taylor@crzo.net

Print Name: Tina Taylor Title: Regulatory Compliance

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: 11/10/2012

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.

Attachment Check List

Att Doc Num	Name
400333492	FORM 2A SUBMITTED
400333614	ACCESS ROAD MAP
400333615	CONST. LAYOUT DRAWINGS
400333616	HYDROLOGY MAP
400333617	LOCATION DRAWING
400333618	MULTI-WELL PLAN
400333619	REFERENCE AREA MAP
400335363	LOCATION PICTURES
400335364	REFERENCE AREA PICTURES
400335368	NRCS MAP UNIT DESC
400335369	NRCS MAP UNIT DESC

Total Attach: 11 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Final Review	Off Hold - corrected per operator: surface owner is the executer of the lease and the right to construct the location is granted by the lease.	11/10/2012 9:13:46 AM
Final Review	ON HOLD - requested operator confirm surface owner is executer of oil & gas lease.	11/9/2012 4:01:23 PM
Permit	Final review completed.	11/9/2012 6:26:14 AM
OGLA	The Operator has indicated that they will be utilizing a closed loop drilling system, there are no water wells within one half mile of this location.	11/1/2012 9:57:30 AM
LGD	The applicant has agreed to the following best management practices: 1. Use closed loop systems; and 2. Undertake a water quality sampling program within a 1/2 mile radius for these wells. Since the applicant has agreed to these best management practices, would you please attach them as conditions.	10/30/2012 1:38:03 PM
Permit	The supplied location drawing and lat/long apparently are correct, the mis-communication between the City of Aurora and the operator has been resolved. It would be un-necessary to move an additional 75' as was believed by the operator. Therefore, after the "withdrawal" of the Form 2A and the Form 2's it will have to be a "amended" location.	10/12/2012 8:49:30 AM
Permit	This might be an amended location, the approved location ID# is 429584. The operator has been advised that the location drawing, with corrected lat/longs, must be replaced, in addition to supplying valid lat/longs for this form.	10/12/2012 7:03:12 AM
Permit	Operator attached location pictures and NRCS map units. This form passed completeness.	10/10/2012 1:07:35 PM
Permit	Return to draft: 1. Location pictures are not attached. 2. NRCS map units are not attached. FYI: Municipal water well permit no. 25685-F about 775' SE of pad location.	10/10/2012 11:17:54 AM

Total: 9 comment(s)

BMP

<u>Type</u>	<u>Comment</u>
Material Handling and Spill Prevention	Operator will ensure 110 percent secondary containment for any volume of fluids contained at the well site during drilling and completion. Operator will implement best management practices to contain any unintentional release of fluids.
Storm Water/Erosion Control	Operator has designed the well pad with insloping and a storm water control ditch to prevent storm water run-on/runoff and the release of fluids from the location. See attached Construction Layout Drawing.
Site Specific	The location will be fenced.

Total: 3 comment(s)