

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



Table with columns DE, ET, OE, ES

Document Number: 400154556

Oil and Gas Location Assessment

[X] 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.

Location ID: 423705 Expiration Date: 06/18/2014

[X] 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: 10347 Name: CONTINENTAL RESOURCES INC Address: PO BOX 1032 City: ENID State: OK Zip: 73703

3. Contact Information

Name: Christi Scritchfield Phone: (580) 548-5257 Fax: (580) 548-5257 email: christiscritchfield@contres.com

4. Location Identification:

Name: Rutherford Number: 1-5H County: WELD Quarter: NENE Section: 5 Township: 9N Range: 61W Meridian: 6 Ground Elevation: 4973 Define a single point as a location reference for the facility location. Footage at surface: 250 feet FNL, from North or South section line, and 600 feet FEL, from East or West section line. Latitude: 40.783098 Longitude: -104.222610 PDOP Reading: 1.0 Date of Measurement: 03/25/2011 Instrument Operator's Name: Mark A. Hall

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

Special Purpose Pits: [ ] Drilling Pits: [ 1 ] Wells: [ 1 ] Production Pits: [ ] Dehydrator Units: [ ] Condensate Tanks: [ 1 ] Water Tanks: [ 1 ] Separators: [ 1 ] Electric Motors: [ 1 ] Multi-Well Pits: [ ] Gas or Diesel Motors: [ 1 ] Cavity Pumps: [ ] LACT Unit: [ ] Pump Jacks: [ 1 ] Pigging Station: [ ] Electric Generators: [ 2 ] Gas Pipeline: [ ] Oil Pipeline: [ ] Water Pipeline: [ ] Flare: [ ] Gas Compressors: [ ] VOC Combustor: [ 1 ] Oil Tanks: [ 3 ] Fuel Tanks: [ 1 ] Other: \_\_\_\_\_

6. Construction:

Date planned to commence construction: 05/19/2011 Size of disturbed area during construction in acres: 3.00  
Estimated date that interim reclamation will begin: 09/14/2011 Size of location after interim reclamation in acres: 1.00  
Estimated post-construction ground elevation: 4973 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: Evaporation and backfill

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 20100153

8. Reclamation Financial Assurance:

Well Surety ID: 20100152  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: 232, above ground utilit: 4800  
, railroad: 5280, property line: 250

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.

**IMPORTANT: SOME DATA FIELDS HAVE BEEN MODIFIED.**

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: 40 - - Nunn loam, 0 to 6% slopes

NRCS Map Unit Name: 44 - Olney fine sandy loam 0 to 6 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: 04/13/2011

List individual species: Native Short Grass Prairie, with moderate grazing. Buffalograss (Dominant), Grama grass, lichen species, prickly pear cactus.

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: 1056, water well: 1320, depth to ground water: 45

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 sensitive area is within the Upper Crow Creek Designated Basin. The reference area is located south and adjacent to the proposed site as shown in Figure 2 of the well head photo exhibit; therefore no reference map is included.

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

Signed: \_\_\_\_\_ Date: 04/19/2011 Email: christiscritchfield@contres.com

Print Name: Christi Scritchfield Title: Regulatory Compliance

**IMPORTANT: SOME DATA FIELDS HAVE BEEN MODIFIED.**

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: 6/19/2011

**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.**

**Attachment Check List**

Att Doc Num	Name
2613639	CORRESPONDENCE
2613640	REFERENCE AREA PICTURES
2613641	NRCS MAP UNIT DESC
2613645	CORRESPONDENCE
400154556	FORM 2A APPROVED
400154811	ACCESS ROAD MAP
400154812	LOCATION DRAWING
400154814	CONST. LAYOUT DRAWINGS
400154818	NRCS MAP UNIT DESC
400154819	LOCATION PICTURES
400154824	WELL LOCATION PLAT
400154831	HYDROLOGY MAP
400176814	FORM 2A SUBMITTED

Total Attach: 13 Files

**General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
OGLA	Changed closed loop drilling to No; Added NRCS Soil Unit; Attached NRCS Map Unit Desc from operator; Attached reference area pictures supplied by operator; Reference area is adjacent to and south of the proposed location. Ready to Pass 5/11/2011.	5/5/2011 8:17:56 AM

Total: 1 comment(s)

**BMP**

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

Total: 0 comment(s)