

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:

400440634

Date Received:

07/10/2013

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:

**433807**

Expiration Date:

**08/06/2016**

☒ 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: 74250

Name: RESOURCE DEVELOPMENT TECHNOLOGY LLC

Address: PO BOX 1020

City: MORRISON State: CO Zip: 80465

3. Contact Information

Name: TOM BOWMAN

Phone: (303) 716-3200

Fax: (303) 716-5780

email: colorado@usermail.com

4. Location Identification:

Name: NININGER Number: 11-1-1645

County: CHEYENNE

QuarterQuarter: LOT 4 Section: 1 Township: 16S Range: 45W Meridian: 6 Ground Elevation: 4345

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: 600 feet FNL, from North or South section line, and 600 feet FWL, from East or West section line.

Latitude: 38.694210 Longitude: -102.418580 PDOP Reading: 3.2 Date of Measurement: 06/13/2013

Instrument Operator's Name: ELIJAH FRANE

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"/>
Condensate Tanks: <input type="text"/>	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"/>
Electric Generators: <input type="text"/>	Gas Pipeline: <input type="text"/>	Oil Pipeline: <input type="text"/>	Water Pipeline: <input type="text"/>	Flare: <input type="text"/>
Gas Compressors: <input type="text"/>	VOC Combustor: <input type="text"/>	Oil Tanks: <input type="text" value="2"/>	Fuel Tanks: <input type="text"/>	

Other: NONE

6. Construction:

Date planned to commence construction: 10/15/2013 Size of disturbed area during construction in acres: 2.10  
Estimated date that interim reclamation will begin: 04/15/2014 Size of location after interim reclamation in acres: 0.63  
Estimated post-construction ground elevation: 4345 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: DRY & BURY

## 7. Surface Owner:

Name: \_\_\_\_\_ Phone: \_\_\_\_\_  
Address: \_\_\_\_\_ Fax: \_\_\_\_\_  
Address: \_\_\_\_\_ Email: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ Date of Rule 306 surface owner consultation: 06/06/2013  
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: 20100202 ☐ 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: 7632, public road: 600, above ground utility: 570,  
railroad: 41900, property line: 600

## 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: STONEHAM LOAM; 3 TO 6 PERCENT SLOPES; MAP UNIT SYMBOL 42

NRCS Map Unit Name: WILEY COMPLEX; 0 TO 3 PERCENT SLOPES; ERODED; MAP SYMBOL 54

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: 352, water well: 7360, depth to ground water: 283

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:

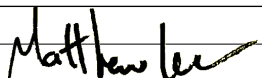
1. THERE ARE NO RIPARIAN AREAS WITHIN 1,000' OF PROPOSED WELL PAD. TOPOGRAPHIC IMAGERY INDICATES AN UNNAMED EPHEMERAL STREAM 352' NORTHEAST OF THE PROPOSED WELL PAD AT ITS CLOSEST POINT. 2. NO CONSTRUCTION LAYOUT DRAWING NEEDED – SLOPES 0 TO 3 PERCENT. DRILL PAD WILL NEED APPROXIMATELY 1–2 FEET OF CUT/FILL. 3. THERE ARE NO APPARENT IMPROVEMENTS WITHIN 400' OF PROPOSED WELL PAD. 4. DEPTH TO GROUND WATER INFORMATION: DOMESTIC STOCK WELL 17,236' NORTHEAST OF PROPOSED WELL – RECEIPT 3651952; PERMIT #286520 (CDWR DOCUMENT ENCLOSED). NOTE: STATIC WATER LEVEL: 283'; WELL DEPTH: 305' 5. CLOSEST GROUND WATER INFORMATION: DOMESTIC STOCK WELL 7360' EAST-SOUTHEAST OF PROPOSED WELL – RECEIPT #9075978; PERMIT #12512 (CDWR DOCUMENT ENCLOSED). NOTE: STATIC WATER LEVEL: 244'; WELL DEPTH: 258' 6. NEAREST SURFACE WATER: UNNAMED EPHEMERAL STREAM NORTHEAST OF PROPOSED WELL PAD 7. SENSITIVE AREA – EAST CHEYENNE (DSGNTD GW MGMT) NORTHERN HIGH PLAINS (DSGNTD BASIN). 8. The Oil & Gas Lease for the W2 of Section 1 16S45W will be earned by drilling per Farmout Agreement with Anadarko.

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

Signed: \_\_\_\_\_ Date: 07/10/2013 Email: colorado@usermail.com

Print Name: TOM BOWMAN Title: OPERATIONS MANAGER

Based on the information provided herein, this Application for Permit-to-Drill complies with COGCC Rules and applicable orders and is hereby approved.

**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**

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**Attachment Check List****Att Doc Num****Name**

2518515	OTHER
400440634	FORM 2A SUBMITTED
400440721	NRCS MAP UNIT DESC
400440723	LOCATION PICTURES
400440725	HYDROLOGY MAP
400440727	ACCESS ROAD MAP
400440730	LOCATION DRAWING
400441294	NRCS MAP UNIT DESC
400442114	OTHER
400442115	OTHER
400445232	SURFACE AGRMT/SURETY

Total Attach: 11 Files

**General Comments****User Group****Comment****Comment Date**

Permit	Changed qtr/qtr location to Lot 4. Notified operator.	3/7/2013 2:47:09 PM
Permit	Final review completed; no LGD or public comment received.	3/6/2013 6:34:40 AM
Permit	Form passes completeness.	7/12/2013 11:07:24 AM

Total: 3 comment(s)

**Best Management Practices****No BMP/COA Type****Description**

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