

FORM  
2A

Rev  
08/13

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:

400477369

Date Received:

10/23/2013

Oil and Gas Location Assessment

☒ New Location    ☐ Refile    ☐ Amend Existing Location    Location#: \_\_\_\_\_

Submit signed original form. This Oil and Gas Location Assessment is to be submitted to the COGCC for approval prior to any ground disturbance activity associated with oil and gas operations. Approval of this Oil and Gas Location 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. Please see the COGCC website at <http://cogcc.state.co.us/> for all accompanying information pertinent this Oil and Gas Location Assessment.

Location ID:

**435306**

Expiration Date:

**12/02/2016**

☒ This location assessment is included as part of a permit application.

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.

Operator

Operator Number: 10112

Name: FOUNDATION ENERGY MANAGEMENT LLC

Address: 16000 DALLAS PARKWAY #875

City: DALLAS State: TX Zip: 75248-6607

Contact Information

Name: Scott Ryan

Phone: (303) 880-2631

Fax: (303) 8610604

email: sryan@foundationenergy.com

RECLAMATION FINANCIAL ASSURANCE

☒ Plugging and Abandonment Bond Surety ID: 20050066    ☐ Gas Facility Surety ID: \_\_\_\_\_

☐ Waste Management Surety ID: \_\_\_\_\_

LOCATION IDENTIFICATION

Name: Wickstrom Number: 6-4

County: WELD

QuarterQuarter: LOT 4 Section: 6 Township: 7N Range: 59W Meridian: 6 Ground Elevation: 4957

Define a single point as a location reference for the facility location. When the location is to be used as a well site then the point shall be a well location.

Footage at surface: 660 feet FSL from North or South section line

660 feet FWL from East or West section line

Latitude: 40.609774 Longitude: -104.028382

PDOP Reading: 1.4 Date of Measurement: 10/11/2013

Instrument Operator's Name: Owen McKee

## RELATED REMOTE LOCATIONS

(Enter as many Related Locations as necessary. Enter the Form 2A document # only if there is no established COGCC Location ID#)

**This proposed Oil and Gas Location is:**

**LOCATION ID #**

**FORM 2A DOC #**

Well Site is served by Production Facilities

400499844

## FACILITIES

Indicate the number of each type of oil and gas facility planned on location

Wells	1	Oil Tanks	0	Condensate Tanks	0	Water Tanks	0	Buried Produced Water Vaults	
Drilling Pits	0	Production Pits	0	Special Purpose Pits	0	Multi-Well Pits	0	Temporary Large Volume Above Ground Tanks	
Pump Jacks	1	Separators	0	Injection Pumps		Cavity Pumps	0		
Gas or Diesel Motors	1	Electric Motors	0	Electric Generators	0	Fuel Tanks	0	Gas Compressors	0
Dehydrator Units	0	Vapor Recovery Unit		VOC Combustor	0	Flare	0	LACT Unit	0
								Pigging Station	0

## OTHER FACILITIES

**Other Facility Type**

**Number**

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Per Rule 303.b.(3)C, description of all oil, gas, and/or water pipelines:

The Wickstrom 6-4 location will have One line of 3 inch welded schedule 80 steel line pipe running northerly parallel to the access road, then easterly to the CTB location.

## CONSTRUCTION

Date planned to commence construction: 01/10/2014      Size of disturbed area during construction in acres: 3.00  
Estimated date that interim reclamation will begin: 02/10/2014      Size of location after interim reclamation in acres: 1.00  
Estimated post-construction ground elevation: 4957

## DRILLING PROGRAM

Will a closed loop system be used for drilling fluids: Yes

Is H<sub>2</sub>S anticipated? No

Will salt sections be encountered during drilling: No

Will salt based mud (>15,000 ppm Cl) be used? No

Will oil based drilling fluids be used?

## DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: OFFSITE

Drilling Fluids Disposal Method: Commercial Disposal

Cutting Disposal:

Cuttings Disposal Method:

Other Disposal Description:

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Beneficial reuse or land application plan submitted?

Reuse Facility ID:      or Document Number:

Centralized E&P Waste Management Facility ID, if applicable:

## SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name:

Phone:

Address: \_\_\_\_\_

Fax: \_\_\_\_\_

Address: \_\_\_\_\_

Email: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Surface Owner: ☒ Fee ☐ State ☐ Federal ☐ Indian

Check all that apply. The Surface Owner: ☒ is the mineral owner

☒ is committed to an oil and Gas Lease

☒ has signed the Oil and Gas Lease

☐ is the applicant

The Mineral Owner beneath this Oil and Gas Location is: ☒ Fee ☐ State ☐ Federal ☐ Indian

The Minerals beneath this Oil and Gas Location will be developed from or produced to this Oil and Gas Location: \_\_\_\_\_

The right to construct this Oil and Gas Location is granted by: oil and gas lease \_\_\_\_\_

Surface damage assurance if no agreement is in place: \_\_\_\_\_ Surface Surety ID: \_\_\_\_\_

Date of Rule 306 surface owner consultation 10/04/2013 \_\_\_\_\_

### CURRENT AND FUTURE LAND USE

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

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

## CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building: 5280 Feet  
Building Unit: 5280 Feet  
High Occupancy Building Unit: 5280 Feet  
Designated Outside Activity Area: 5280 Feet  
Public Road: 656 Feet  
Above Ground Utility: 5280 Feet  
Railroad: 5280 Feet  
Property Line: 644 Feet

### INSTRUCTIONS:

- All measurements shall be provided from center of nearest Well or edge of nearest Production Facility to nearest of each cultural feature as described in Rule 303.b.(3)A.  
- Enter 5280 for distance greater than 1 mile.  
- Building - nearest building of any type. If nearest Building is a Building Unit, enter same distance for both.  
- Building Unit, High Occupancy Building Unit, and Designated Outside Activity Area - as defined in 100-Series Rules.

## DESIGNATED SETBACK LOCATION INFORMATION

Check all that apply. This location is within a: ☐ Buffer Zone  
☐ Exception Zone  
☐ Urban Mitigation Area

- Buffer Zone - as described in Rule 604.a.(2), within 1,000' of a Building Unit.  
- Exception Zone - as described in Rule 604.a.(1), within 500' of a Building Unit.  
- Urban Mitigation Area - as defined in 100-Series Rules.

Pre-application Notifications (required if location is within 1,000 feet of a building unit):

Date of Rule 305.a.(1) Urban Mitigation Area Notification to Local Government: \_\_\_\_\_

Date of Rule 305.a.(2) Buffer Zone Notification to Building Unit Owners: \_\_\_\_\_

## SOIL

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.org/> 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: 54 - Platner loam, 0 to 3 percent slopes

NRCS Map Unit Name: \_\_\_\_\_

NRCS Map Unit Name: \_\_\_\_\_

## 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): \_\_\_\_\_

## WATER RESOURCES

Is this a sensitive area: ☒ No ☐ Yes

Distance to nearest

downgradient surface water feature: 2570 Feet

water well: 2600 Feet

Estimated depth to ground water at Oil and Gas Location 185 Feet

Basis for depth to groundwater and sensitive area determination:

Is the location in a riparian area: ☒ No ☐ Yes

Was an Army Corps of Engineers Section 404 permit filed ☒ No ☐ Yes If yes attach permit.

Is the location within a Rule 317B Surface Water Supply Area buffer No 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: \_\_\_\_\_

## GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule \_\_\_\_\_

## DESIGNATED SETBACK LOCATION EXCEPTIONS

Check all that apply:

- ☐ Rule 604.a.(1)A. Exception Zone (within 500' of Building Unit)
- ☐ Rule 604.b.(1)A. Exception Location (existing or approved Oil & Gas Location now within a Designated Setback as a result of Rule 604.a.)
- ☐ Rule 604.b.(1)B. Exception Location (existing or approved Oil & Gas Location is within a Designated Setback due to Building Unit construction after Location approval)
- ☐ Rule 604.b.(2) Exception Location (SUA or site-specific development plan executed on or before August 1, 2013)
- ☐ Rule 604.b.(3) Exception Location (Building Units constructed after August 1, 2013 within setback per an SUA or site-specific development plan)

## RULE 502.b VARIANCE REQUEST

- ☐ Rule 502.b. Variance Request from COGCC Rule or Spacing Order Number \_\_\_\_\_

ALL exceptions and variances require attached Request Letter(s). Refer to applicable rule for additional required attachments (e.g. waivers, certifications, SUAs).

## OPERATOR COMMENTS AND SUBMITTAL

Comments

Please note that surface owner has agreed to provide additional waivers as reasonably requested by Foundation pertaining to COGCC notice provisions and rules, by executing the attached Surface Use Agreement.

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

Signed: \_\_\_\_\_ Date: 10/23/2013 Email: mstark@foundationenergy.com

Print Name: Matt Stark Title: Petroleum 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: 12/3/2013

### **Conditions Of Approval**

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.

<b><u>COA Type</u></b>	<b><u>Description</u></b>
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### **Best Management Practices**

<b><u>No BMP/COA Type</u></b>	<b><u>Description</u></b>
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### **Attachment Check List**

<b><u>Att Doc Num</u></b>	<b><u>Name</u></b>
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1667946	NRCS MAP UNIT DESC
1667947	CORRESPONDENCE
2157317	ACCESS ROAD PHOTOS
400477369	FORM 2A SUBMITTED
400498742	SURFACE AGRMT/SURETY
400499071	CONSULT NOTICE
400499737	REFERENCE AREA PICTURES
400499738	REFERENCE AREA MAP
400499739	LOCATION PICTURES
400499740	HYDROLOGY MAP
400499744	ACCESS ROAD MAP
400501261	OTHER
400507059	LOCATION DRAWING

Total Attach: 13 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	No LGD or public comments. Final Review--passed.	12/2/2013 9:13:07 AM
Permit	Per oper. deleted lease attachment and surface owner notice for existing well.	11/27/2013 2:44:44 PM
OGLA	No public comments. OGLA task passed.	11/26/2013 7:42:13 AM
OGLA	IN PROCESS - added operator provided pipeline description, missing NRCS Map Unit Description attachment, changed distance to nearest surface water feature from 5,280 feet to 2,570 feet, and added required water well sampling by Rule 609. OGLA review complete.	11/20/2013 3:03:37 PM
OGLA	ON HOLD - Requested pipeline description and missing NRCS Map Unit Description attachment. Change to nearest surface water feature and water well sampling Rule. Due by 12/14/13.	11/14/2013 10:29:35 AM
Permit	Oper. submitted corrected Access Road Photos.	11/11/2013 8:20:59 AM
Permit	Form passes completeness.	11/5/2013 3:44:15 PM
Permit	Scott Ryan is not a designated agent Right to construct s/b by lease; Location Drawing is plat. Back to draft.	10/24/2013 1:39:01 PM

Total: 8 comment(s)