

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:

400444568

Date Received:

07/29/2013

Oil and Gas Location Assessment

☐ New Location

☒ Amend Existing Location Location#: 417593

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:

417593

Expiration Date:

11/08/2016

☒ 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: 47120

Name: KERR-MCGEE OIL & GAS ONSHORE LP

Address: P O BOX 173779

City: DENVER State: CO Zip: 80217-3779

3. Contact Information

Name: Laura Abrams

Phone: (720) 929-6356

Fax: (720) 929-7356

email: laura.abrams@anadarko.com

4. Location Identification:

Name: KERBS Number: 31N-14HZ

County: WELD

QuarterQuarter: NENE Section: 13 Township: 3N Range: 68W Meridian: 6 Ground Elevation: 4884

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: 944 feet FNL, from North or South section line, and 622 feet FEL, from East or West section line.

Latitude: 40.231096 Longitude: -104.943966 PDOP Reading: 1.6 Date of Measurement: 03/19/2013

Instrument Operator's Name: Owen McKee

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="text" value="2"/>	Wells: <input type="text" value="4"/>	Production Pits: <input type="checkbox"/>	Dehydrator Units: <input type="checkbox"/>
Condensate Tanks: <input type="checkbox"/>	Water Tanks: <input type="checkbox"/>	Separators: <input type="checkbox"/>	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="3"/>	Pigging Station: <input type="checkbox"/>
Electric Generators: <input type="checkbox"/>	Gas Pipeline: <input type="text" value="1"/>	Oil Pipeline: <input type="checkbox"/>	Water Pipeline: <input type="checkbox"/>	Flare: <input type="checkbox"/>
Gas Compressors: <input type="checkbox"/>	VOC Combustor: <input type="checkbox"/>	Oil Tanks: <input type="checkbox"/>	Fuel Tanks: <input type="checkbox"/>	

Other: 1 Existing and 3 New Wells into tank battery. Drilling pits will be used by pre-spud rig. Tank battery is under negotiation with surface owner and will be filed at a later date.

6. Construction:

Date planned to commence construction: 01/01/2014 Size of disturbed area during construction in acres: 10.00
Estimated date that interim reclamation will begin: 03/01/2014 Size of location after interim reclamation in acres: 1.00
Estimated post-construction ground elevation: 4884 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: 05/29/2013
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 20010125

8. Reclamation Financial Assurance:

☒ Well Surety ID: 20010124 ☐ Gas Facility Surety ID: _____ ☐ Waste Mgmt. Surety ID: _____

9. Cultural:

Is the location in a high density area (Rule 603.b.): Yes ☐ No ☒
Distance, in feet, to nearest building: 374, public road: 622, above ground utility: 558,
railroad: 5280, property line: 152

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: 82: Wiley-Colby complex, 1 to 3 percent slopes

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: _____
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: 1180, water well: 3090, depth to ground water: 20

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:

Closest water well: Permit No. 160742. Closest water well with depth: Permit No. 189847. The surface location of this well is an exception to Rule 318A.a and to Rule 318A.c. This well is not within the GWA surface location window and does not meet the twinning requirement due to the number of wells planned for this area and at the request of the surface owner. An exception location request letter and signed waivers are attached to the Form 2 and Form 2A.

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

Signed: _____ Date: 07/29/2013 Email: djregulatory@anadarko.com

Print Name: Laura Abrams Title: Regulatory Analyst II

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: 11/9/2013

**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.

Description

Operator will not complete wells prior to approval of the production facility Form 2A

operator email addressed oil-based mud, tank battery status, BMPs for nearby residents, and operation within disturbance boundaries - email is attached. the existing Noble Energy Kerbs T 13-01 will not share the same tank battery

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
1667851	CORRESPONDENCE
2086345	LOCATION PICTURES
2086427	CORRESPONDENCE
400444568	FORM 2A SUBMITTED
400444596	WASTE MANAGEMENT PLAN
400444597	ACCESS ROAD MAP
400444601	NRCS MAP UNIT DESC
400444603	WELL LOCATION PLAT
400444607	EXCEPTION LOC WAIVERS
400444614	EXCEPTION LOC REQUEST
400444615	MULTI-WELL PLAN
400452044	HYDROLOGY MAP
400452045	LOCATION DRAWING
400452049	30 DAY NOTICE LETTER

Total Attach: 14 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Final Review	ON HOLD. Request BMP for offsite residence to east-northeast that will mitigate noise, odors, lights, & dust.	9/30/2013 3:35:43 PM
Final Review	ON HOLD. No production facilities on either Kerbs pad.	9/30/2013 3:33:22 PM
Final Review	ON HOLD. Operator indicates Oil Based Mud will be used. Waste Management Plan only addresses Water Based Bentonitic Drilling Fluids and Associated Cuttings. Additionally, operator should provide demonstration of compliance with 907.e.(2).	9/30/2013 3:32:04 PM
Permit	Final Review Completed. No LGD or public comment received.	9/30/2013 8:55:29 AM
OGLA	per operator conversation, sensitive area determination was not conducted - changed entry to "no", no oil based muds will be used by "pre-spud" rig during initial casing install. location pictures attachment had location drawing instead - operator provided photos.	8/26/2013 2:56:04 PM
Permit	ok to pass.	8/15/2013 11:08:29 AM
Permit	Form passes completeness.	7/30/2013 3:19:07 PM

Total: 7 comment(s)

Best Management Practices

No	BMP/COA Type	Description
1	Storm Water/Erosion Control	A ditch and berm will be constructed around the entire location.
2	Dust control	Weld County Roads 13 and 34 are paved and maintained by Weld County and will not require further dust mitigation. Water will be placed on the dirt access roads and location as needed to mitigate dust. If the access roads require further dust abatement, Magnesium chloride will be used.
3	Construction	All lights used for operations will be pointed inward to mitigate potential light disturbance.
4	Noise mitigation	Sound mitigation barriers (hay bales) will be placed along the eastern and northern sides of the pad location to damper noise and potential visual disturbance during drilling and completions to the nearby residence and to Weld County Roads 13 and 34.
5	Drilling/Completion Operations	Vapor Recovery Units (VRU) will be utilized to prevent uncontrolled venting of flash gas and to suppress odors related to flaring gas.

Total: 5 comment(s)