

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:

2032533

Date Received:

04/17/2009

Oil and Gas Location Assessment

☒ New Location ☐ Amend Existing Location Location#: 318150

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:

318150

Expiration Date:

07/19/2012

☒ 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: CHERYL LIGHT

Phone: (720) 929-6461

Fax: (720) 929-7461

email: CHERYL.LIGHT@ANADARKO.COM

4. Location Identification:

Name: ADAM FARM Number: 2-4

County: WELD

QuarterQuarter: SWNE Section: 4 Township: 2N Range: 68W Meridian: 6 Ground Elevation: 4885

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: 1312 feet FNL, from North or South section line, and 1600 feet FEL, from East or West section line.

Latitude: 40.171360 Longitude: -105.004110 PDOP Reading: 6.0 Date of Measurement: 03/04/2009

Instrument Operator's Name: DANIEL JOHN CORRIELL

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

Special Purpose Pits: <input type="text" value="1"/>	Drilling Pits: <input type="text" value="1"/>	Wells: <input type="text" value="7"/>	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="7"/>	Electric Motors: <input type="text" value="77"/>	Multi-Well Pits: <input type="text"/>
Gas or Diesel Motors: <input type="text" value="4"/>	Cavity Pumps: <input type="text"/>	LACT Unit: <input type="text"/>	Pump Jacks: <input type="text"/>	Pigging Station: <input type="text"/>
Electric Generators: <input type="text" value="3"/>	Gas Pipeline: <input type="text" value="1"/>	Oil Pipeline: <input type="text"/>	Water Pipeline: <input type="text"/>	Flare: <input type="text" value="1"/>
Gas Compressors: <input type="text" value="1"/>	VOC Combustor: <input type="text" value="1"/>	Oil Tanks: <input type="text" value="7"/>	Fuel Tanks: <input type="text" value="7"/>	

Other: _____

6. Construction:

Date planned to commence construction: 09/01/2009 Size of disturbed area during construction in acres: 3.12
Estimated date that interim reclamation will begin: 09/01/2009 Size of location after interim reclamation in acres: 0.28
Estimated post-construction ground elevation: 4885 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: ADAM FARM PROPERTY LLC Phone: (303) 447-0450
Address: 11684 COUNTY ROAD 5.5 Fax: _____
Address: _____ Email: _____
City: LONGMONT State: CO Zip: 80504 Date of Rule 306 surface owner consultation: 03/25/2009
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: 20010124 ☐ Gas Facility Surety ID: 20010126 ☐ Waste Mgnt. Surety ID: 20010127

9. Cultural:

Is the location in a high density area (Rule 603.b.): Yes ☐ No ☒
Distance, in feet, to nearest building: 842, public road: 1347, above ground utility: 1500,
railroad: 22134, property line: 784

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: WILEY-COLBY COMPLEX, 1-3 PERCENT SLOPES

NRCS Map Unit Name: THEDALUND LOAM, 3 TO 9 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: 960 , water well: 1640 , depth to ground water: 13

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:

Depth to shallow ground water (13 feet bgs) constitutes a sensitive area. Operator is using a closed-loop drilling system. Ponds on location map are waste ponds for dairy operations and are not surface water ponds.

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

Signed: _____ Date: 04/17/2009 Email: CHERYL.LIGHT@ANADARKO.COM

Print Name: Brookshc Title: _____

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. Nash Director of COGCC Date: 7/20/2009

**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

The operator has agreed to use a closed-loop drilling system.

Rule 303.d.3.C,D, J

The operator has agreed to use a closed-loop drilling system for this well.

Attachment Check List

Att Doc Num	Name
1302054	HYDROLOGY MAP
1302055	HYDROLOGY MAP
1302056	HYDROLOGY MAP
1757425	CORRESPONDENCE
1813752	CORRESPONDENCE
1813753	CORRESPONDENCE
1813754	CORRESPONDENCE
1813756	CORRESPONDENCE
1824848	30 DAY NOTICE LETTER
1824852	WELL LOCATION PLAT
1824854	ECOLOGIC RESOURCE SURVEY
1904044	HYDROLOGY MAP
1904045	PROPOSED BMPs
1904046	LOCATION DRAWING
2032533	FORM 2A APPROVED
2032534	LOCATION PICTURES
2032535	LOCATION PICTURES
2032538	ACCESS ROAD MAP
2032542	SURFACE AGRMT/SURETY
2038129	FORM 2A
2038132	NRCS MAP UNIT DESC
2038133	MULTI-WELL PLAN
2043299	30 DAY NOTICE LETTER
2043300	ECOLOGIC RESOURCE SURVEY
2043301	PROPOSED BMPs
2043302	WELL LOCATION PLAT
2043303	HYDROLOGY MAP A, TOPO
2043304	HYDROLOGY MAP B, TOPO
2043305	HYDROLOGY MAP B, AERIAL
2043307	HYDROLOGY MAP B, AERIAL

Total Attach: 30 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
DOW	Storm water management plans should be compliant with COGCC and CDPHE storm water management requirements. Storm water management requirements should be followed during and after construction activities. As per these requirements, sediment containment systems should be utilized at this site and should consist of best management practices (BMP's) such as silt fencing, straw bales, erosion control blankets, continuous berms, etc.	6/19/2009 9:34:03 AM
DOW	Additionally, red tail hawks and other raptors have nested in trees associated with the St. Vrain Creek riparian corridor. Colorado Division of Wildlife Recommended Buffer Zones and Seasonal Restrictions for Colorado Raptors should be utilized to minimize impacts in the area, including a recommendation that limits human encroachment within 1/3 mile of an active nest from February 15 thru July 15. These dates would also serve to minimize disturbance to nesting herons and egrets.	6/19/2009 9:33:23 AM
DOW	For active bald eagle night roosts there should be no human encroachment from November 15 through March 15 within ¼ mile radius of an active winter night roost if there is no direct line of sight between the roost and the encroachment activities. There should be no human encroachment from November 15 through March 15 within ½ mile radius of an active winter night roost if there is a direct line of sight between the roost and the encroachment activities. If periodic visits (such as oil well maintenance work) are required within the buffer zone after development, activity should be restricted to the period between 1000 and 1400 hours from November 15 to March 15. For the Adam Farm 2-4 location, the bald eagle night roost might not be active, but consideration of the COAs listed above, and the BMPs discussed below, will help protect the nesting herons and raptors along the creek corridor, which are federally protected under the migratory bird treaty act.	6/19/2009 9:31:56 AM
DOW	8.Operators shall not place staging, refueling, and chemical storage areas within riparian zones and floodplains [Rule 1204.a.(4)].	6/19/2009 9:31:06 AM
DOW	7.Operators shall plan to minimize the number and length of oil and gas roads to minimize surface disturbance [Rule 1204.a.(3)].	6/19/2009 9:30:16 AM
DOW	6.Operator shall continue to gate the access road to this facility and limit public access if approved by the surface owner [Rule 1203.a.(11)].	6/19/2009 9:29:17 AM
DOW	5.Operator shall treat waste water pits to control mosquitoes as outlined in Rule 1203.a.(8).	6/19/2009 9:28:30 AM
DOW	3.Operator shall install wildlife crossovers and escape ramps during pipeline construction for this facility per the requirements of Rule 1203.a.(1).	6/19/2009 9:26:56 AM

DOW	2.Operator shall install appropriate fencing and netting on all open pits to prevent access to pits by wildlife and migratory birds [Rule 902.a. and 902.d.]	6/19/2009 9:25:59 AM
Agency	Null	6/4/2009 12:22:48 PM
Agency	Reserve/Drilling pit must be lined according to 904, or operator may demonstrate to the satisfaction of the Director of an alterate liner system offering equivalent protection to public health, safety, and welfare, including the environment and wildlife resources.	6/4/2009 12:22:48 PM
Agency	Null	6/4/2009 12:22:16 PM
Agency	Reserve/Drilling pit must be lined according to 904, or operator may demonstrate to the satisfaction of the Director of an alterate liner system offering equivalent protection to public health, safety, and welfare, including the environment and wildlife resources.	6/4/2009 12:22:16 PM

Total: 13 comment(s)

Best Management Practices

<u>No</u>	<u>BMP/COA Type</u>	<u>Description</u>