

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:

400339746

Date Received:

10/26/2012

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:

430967

Expiration Date:

11/29/2015

☒ 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: POWERS Number: 3N-27HZ

County: WELD

QuarterQuarter: SESW Section: 27 Township: 2N Range: 65W Meridian: 6 Ground Elevation: 4949

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: 510 feet FSL, from North or South section line, and 1920 feet FWL, from East or West section line.

Latitude: 40.103698 Longitude: -104.652411 PDOP Reading: 1.4 Date of Measurement: 07/03/2012

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="5"/>	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="5"/>	Pigging Station: <input type="checkbox"/>
Electric Generators: <input type="checkbox"/>	Gas Pipeline: <input type="checkbox"/>	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: Drilling pits will be used by pre-spud rig. Will flow into new Tank Battery POWERS 30N-27HZ.

6. Construction:

Date planned to commence construction: 01/04/2013 Size of disturbed area during construction in acres: 11.00
Estimated date that interim reclamation will begin: 04/19/2013 Size of location after interim reclamation in acres: 0.25
Estimated post-construction ground elevation: 4949 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: 08/19/2012
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: _____ ☐ 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: 4878, public road: 4887, above ground utilit: 4746
, railroad: 10087, property line: 510

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: 72 Vona loamy sand, 0 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: 01/12/2012

List individual species: Goosefoot-Chenopodium spp., Saltbrush/Russian atriplex-Atriplex heteropsperma, Jeweled blazingstar-Mentzelia speciosa, Soapweed yucca-Yucca glauca

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): Prarie Sandreed-mixed forb/grass Rangeland

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: 3755, water well: 2862, 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 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:

Closest Water well permit #: 268020

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

Signed: _____ Date: 10/26/2012 Email: DJRegulatory@anadarko.com

Print Name: Cheryl Light Title: Sr. Regulatory Analyst

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: Matthew Lee Director of COGCC Date: 11/30/2012

**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
1695279	MULTI-WELL PLAN
400339746	FORM 2A SUBMITTED
400339753	30 DAY NOTICE LETTER
400339754	HYDROLOGY MAP
400339756	LOCATION DRAWING
400339757	LOCATION PICTURES
400339759	NRCS MAP UNIT DESC
400339760	WELL LOCATION PLAT
400339761	TOPO MAP
400339763	SURFACE AGRMT/SURETY
400339764	WASTE MANAGEMENT PLAN
400340321	ACCESS ROAD MAP
400343835	REFERENCE AREA PICTURES

Total Attach: 13 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final Review Completed. No LGD or public comment received.	11/28/2012 3:11:04 PM
Permit	Ok to pass.	11/14/2012 8:45:53 AM
OGLA	Reviewed 11/9/2012.	11/9/2012 2:52:59 PM
Permit	This application passed completeness.	11/6/2012 4:16:36 PM
Permit	Return to draft: 1. multi-well plan references two location pads; operator was instructed to cross-out/black-out incorrect pad name per phone conversation w/J.S. 2. each reference area picture should be labeled with location name in order to avoid confusion if pages are separated.	11/2/2012 2:55:44 PM
Permit	Return to draft: 1. multi-well plan (Powers 5 Pad) does not match submitted Form 2A and other attachments (Powers 3N-27HZ Pad). 2. reference area pictures do not contain the location to which the pictures are referencing; ie. Referencing the Powers 3N-27HZ Pad.	10/30/2012 6:20:50 PM

Total: 6 comment(s)

BMP

<u>Type</u>	<u>Comment</u>
Construction	<p>Due to the significant number of horizontal wells to be developed in close proximity to the town of Hudson (33 total) and the fact that several of these wells will be drilled at the same time, Anadarko will work with the town of Hudson to ensure many of the issues brought up by the Town Manager are addressed in a manner agreeable to both Anadarko and the town of Hudson. This will include the following:</p> <ol style="list-style-type: none">1. Anadarko will perform a road impact study for all roads belonging to the Town of Hudson prior to operations and then a second road impact study subsequent to drilling and completion operations. Anadarko will pay for all required fixes to ensure any damaged roads are brought back to their condition prior to our operations2. Anadarko will take appropriate steps to adequately protect valve boxes and manholes located along any of our access roads3. In conjunction with the Town of Hudson, Anadarko will develop a site specific traffic management plan that will address the following: (1) expected traffic and timing of such traffic, (2) how traffic in busy or sensitive intersections will be managed and mitigated, and (3) what truck traffic restrictions will be put in place, if any4. Anadarko will provide the Town of Hudson an emergency response plan prior to commencing operations

Total: 1 comment(s)