

FORM
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State of Colorado Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109



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Document Number:

400187294

Oil and Gas Location Assessment

☐ New Location☒ Amend Existing Location Location#: 418467

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:

418467

Expiration Date:

08/20/2014☒ 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: 16660Name: CHESAPEAKE OPERATING INCAddress: P O BOX 18496City: OKLAHOMA CITY State: OK Zip: 73154-0496

3. Contact Information

Name: LINDSEY MELOTTPhone: (405) 935-8323Fax: (405) 849-8323email: LINDSEY.MELOTT@CHK.COM

4. Location Identification:

Name: STATE 16-10-67Number: 1HCounty: WELDQuarterQuarter: NWNW Section: 16 Township: 10N Range: 67W Meridian: 6 Ground Elevation: 5615

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: 15 feet FNL, from North or South section line, and 710 feet FWL, from East or West section line.Latitude: 40.841129 Longitude: -104.903157 PDOP Reading: 1.9 Date of Measurement: 05/25/2011Instrument Operator's Name: PAUL ORME

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"/>	Wells: <input type="text" value="2"/>	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="3"/>	Electric Motors: <input type="text"/>	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" value="1"/>
Gas Compressors: <input type="text"/>	VOC Combustor: <input type="text"/>	Oil Tanks: <input type="text" value="3"/>	Fuel Tanks: <input type="text" value="1"/>	

Other: _____

6. Construction:

Date planned to commence construction: 10/01/2011 Size of disturbed area during construction in acres: 9.30
Estimated date that interim reclamation will begin: 04/01/2012 Size of location after interim reclamation in acres: 9.30
Estimated post-construction ground elevation: 5614 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: Reliable Field Services

7. Surface Owner:

Name: _____ Phone: _____
Address: _____ Fax: _____
Address: _____ Email: _____
City: _____ State: _____ Zip: _____ Date of Rule 306 surface owner consultation: 05/25/2011
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: 19980020 ☐ 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: 4804, public road: 739, above ground utilit: 4804
, railroad: 5280, property line: _____

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: 57-RENOHILL-SHINGLE COMPLEX, 3 TO 9 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: 130, water well: 4743, depth to ground water: 8
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:

NO LOCATION EXCEPTION NEEDED AS SURFACE OWNER (THOMAS RANCH) OWNS BOTH SECTION 9 AND 16 AND CHK HAS SUA IN PLACE WITH THOMAS RANCH. THIS IS A MULTI WELL PAD WITH THE STATE 16-10-67 1H AND THOMAS RANCH 9-10-67 1H. MUTLI WELL PLAN ATTACHED. DISTURBED AREA INCLUDES PAD AND ROAD.

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

Signed: _____ Date: 07/20/2011 Email: LINDSEY.MELOTT@CHK.COM

Print Name: LINDSEY MELOTT Title: SUPERVISOR-REG COMP

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. Neslin Director of COGCC Date: 8/21/2011

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.

Notify COGCC OGLA Specialist for Northeast Colorado (rick.allison@state.co.us) 48 hours prior to construction.

Attachment Check List

Att Doc Num	Name
1694245	MULTI-WELL PLAN
2613819	CORRESPONDENCE
2613820	REFERENCE AREA PICTURES
400187294	FORM 2A SUBMITTED
400187296	ACCESS ROAD MAP
400187297	CONST. LAYOUT DRAWINGS
400187298	CONST. LAYOUT DRAWINGS
400187299	OTHER
400187300	30 DAY NOTICE LETTER
400187301	HYDROLOGY MAP
400187302	LOCATION DRAWING
400187303	OTHER
400187304	NRCS MAP UNIT DESC
400187307	WELL LOCATION PLAT
400187308	LOCATION PICTURES
400187311	ACCESS ROAD MAP
400187313	REFERENCE AREA MAP
400187314	WELL LOCATION PLAT
400187548	SURFACE AGRMT/SURETY

Total Attach: 19 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
OGLA	Changed the sensitive area designation from No to Yes because: 1) the location is in an area of shallow ground water, and 2) the location is in a small drainage to Spring Creek; applied operator BMPs; attached revised Location and Reference Area Pictures; OGLA task passed.	8/18/2011 3:07:51 PM
Permit	Changed surface/mineral from Fee/State to Fee/Fee per operator.	8/9/2011 11:10:37 AM
Permit	Received and attached Multi-Well Plan.	7/27/2011 10:36:06 AM
Permit	Requesting Multi-Well Plan and distant to property line.	7/25/2011 2:49:17 PM
Permit	Social Security and Account Numbers in SUA attachments. Uncheck the surface owner is committed to an O&G box.	7/20/2011 11:04:24 AM

Total: 5 comment(s)

BMP

<u>Type</u>	<u>Comment</u>
Storm Water/Erosion Control	The BMPs implemented for the State 16-10-67 1H Well Pad have been designed to minimize and prevent sediment from leaving the site. The limits of construction have been minimized to reduce the area of soil disturbance. Silt fence has been designed to capture sediment, so it shall be placed to surround the downstream perimeter of the site and also around the perimeter of the stockpiles. The stockpiles will also be managed according to the Urban Drainage specifications included within the Stormwater Management Report. Permanent stabilization will be used on any soil surface that has been disturbed and then remains inactive. Vehicle tracking control may be implemented at the entrance and/or exit to the site to prevent sediment from entering or leaving the site via vehicular movement. Additionally, check dams may be utilized as needed to minimize erosion within the ditches along the access roadway. It is anticipated the BMPs designed for this site will provide sufficient measures to reduce and prevent erosion. In the event that the field observations show otherwise, the design and implementation of additional or alternate BMPs will be evaluated in the field.

Total: 1 comment(s)