

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:

400445609

Date Received:

07/24/2013

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:

434921

Expiration Date:

10/31/2016

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: 10474
 Name: MENDELL FINISTERRE II LLC
 Address: 7979 IVANHOE AVENUE #300
 City: SAN DIEGO State: CA Zip: 92037

3. Contact Information

Name: CLAYTON DOKE
 Phone: (303) 216-0703
 Fax: (303) 216-2139
 email: cdoke@iptengineers.com

4. Location Identification:

Name: AFTON Number: HZ PAD
 County: ADAMS
 Quarter: SESE Section: 12 Township: 1S Range: 68W Meridian: 6 Ground Elevation: 5153

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: 598 feet FSL, from North or South section line, and 495 feet FEL, from East or West section line.
 Latitude: 39.973590 Longitude: -104.942050 PDOP Reading: 1.9 Date of Measurement: 07/01/2013
 Instrument Operator's Name: ADAM KELLY

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="8"/>	Production Pits: <input type="text"/>	Dehydrator Units: <input type="text"/>
Condensate Tanks: <input type="text" value="28"/>	Water Tanks: <input type="text" value="7"/>	Separators: <input type="text" value="14"/>	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"/>	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"/>
Gas Compressors: <input type="text"/>	VOC Combustor: <input type="text" value="7"/>	Oil Tanks: <input type="text"/>	Fuel Tanks: <input type="text"/>	

Other: _____

6. Construction:

Date planned to commence construction: 09/01/2013 Size of disturbed area during construction in acres: 4.25
Estimated date that interim reclamation will begin: 03/01/2014 Size of location after interim reclamation in acres: 1.75
Estimated post-construction ground elevation: 5153 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: _____
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: 20120099 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: 276, public road: 480, above ground utility: 191,
railroad: 1520, property line: 133

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: UID: Ulm loam, 5 to 9 percent slopes

NRCS Map Unit Name: UIC: Ulm loam, 3 to 5 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: 185, water well: 934, depth to ground water: 542

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:

The closest water well to location is permit #: 92231-VE - located 190' FNL, 517' FEL (NENE) Sec. 13-T1S-R68W, approximately 907' from the location. There is no record of this well being drilled. Static water level was determined from water well permit #: 171050- - located 225' FNL, 200' FEL (NENE) Sect. 13-T1S-R68W, approximately 934' from location. This well pumped @ 15 gpm with a static water level of 565'. There is no elevation listed for this well, but topographic maps show it as approximately 23' above location. Correcting for this difference results in an estimate of 542' to groundwater at location. This has been reported above. Operator respectfully requests a Rule 318A.c, 603.a.(2), and 604.a.(1) exception location. This location is greater than 50' from an existing well, within 150' of a property line, and within 500' of a building unit. Request and waivers are attached. This facility also contains the production equipment for the Alicia HZ Pad (Doc #400445791). SUA is attached. Document attached as "Other" contains maps and a description of surface owner's property to supplement the SUA.

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

Signed: _____ Date: 07/24/2013 Email: cdoke@iptengineers.com

Print Name: CLAYTON DOKE Title: SENIOR 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: 11/1/2013

**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

As a condition of approval, COGCC requests BMPs for stormwater and erosion control for the stormwater/ runoff collection area on the northeast portion of the planned production area on Adam County property.

BMPs for light, noise and dust from operator added to Form. Per direction by operator, pad size after interim reclamation changed to 1.75 acres

Attachment Check List

Att Doc Num	Name
2086377	LOCATION DRAWING
2086378	HYDROLOGY MAP
2086379	REFERENCE AREA MAP
2157260	CORRESPONDENCE
2157302	SURFACE AGRMT/SURETY
400445609	FORM 2A SUBMITTED
400445741	NRCS MAP UNIT DESC
400445761	ACCESS ROAD MAP
400445769	LOCATION PICTURES
400445773	REFERENCE AREA PICTURES
400459379	OTHER
400459381	EXCEPTION LOC REQUEST
400459382	EXCEPTION LOC WAIVERS
400459389	MULTI-WELL PLAN

Total Attach: 14 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	LGD comments relate to required permits by Adams County. No public comments. Final Review--passed.	10/31/2013 2:15:11 PM
OGLA	Email comment provided by operator regarding operator meetings with adjacent surface owners: "The operator and agents for the operator have met multiple times with the surface owners directly adjacent to the west of the subject site; most recently on 10/24/13. Primary concerns expressed during the meetings were timing. Operator's agents will notify the offsetting owners via email of operational changes such as MIRU, RDMO, RU Fracs etc. Operator's agents provided contact information and discussed the plans for noise mitigation."	10/29/2013 8:52:47 PM
OGLA	Email comment provided by operator regarding alternatives for production facilities: "Although per the SUA the operator has the right to place the battery facilities on-site- that is, on the surface owner's lands- operator is working to acquire the right from Adams County to locate the battery north of the property line directly adjacent to existing facility #; 415301 in order to keep the disturbance off of the surface owners lands and protect her mountain view directly west. Once this is obtained the facilities at this site will be changed via sundry and a new form 2a will be submitted for the battery site."	10/29/2013 8:48:45 PM
Permit	Req'd SUA signed by oper.	10/23/2013 2:32:33 PM
Permit	Oper. submitted two related APD's. Corrected operator name & # to Mendell Finisterre II LLC, #10474, per oper.'s instructions.	10/4/2013 1:05:30 PM
Permit	Operator advised that nearest building unit is at 384'. Surface owner waivers for property line less than 150' and bldg. unit less than 500' attached. Related APD's still in draft.	10/3/2013 6:58:25 AM
OGLA	operator provided updated location drawing with disturbed area on surface owner's property. disturbed area does not include Alicia HZ Pad. operator provided updated hydrology map and reference area map	9/27/2013 3:17:19 PM
OGLA	604.a.(1) exception location request not applicable as Form 2A predates this rule. Location drawing shows disturbed area will include existing Schneider Energy Services well and production equipment - these items should not be included in the boundary if they will not be disturbed.	8/26/2013 11:32:50 AM
OGLA	per conversation with operator and followup email - unidentified bldgs west of wells will be included on new location drawing, productinn from Alicia HZ Pad is also planned to go to this location, confirmed cropland - no reference area information is necessary, production facility shown on north side of wells on location drawing is on Adams County property and is optional - SUA is pending, operator has agreement with surface owner at well location to construct production facility as option. Operator requested to update location drawing with final production location when available.	8/26/2013 11:21:46 AM
LGD	It appears as though there are existing access points into this location. If any new access points are to be established, the Adams County Dept. of Public Works will approve these access point locations. A Drilling Rig Move Permit will be required for all rig moves into and out of this location. When this location is put into production, a Gas and Oil Well facilities permit will be required. Please contact Mr. Mark Russell at 720-523-6821 for information on acquiring these permits.	3/2/2013 4:43:15 PM
Permit	Operator corrected multi-well plan. This form has passed completeness.	7/30/2013 3:38:47 PM
Permit	Returned to DRAFT. Requested new multi-well plan as this one has 2 well with BHL's the Facilities shows to have 8 wells,	7/25/2013 2:24:04 PM

Total: 12 comment(s)

Best Management Practices

	<u>No BMP/COA Type</u>	<u>Description</u>
1	Storm Water/Erosion Control	As soon as practicable after construction activities have been completed in a disturbed area, permanent stabilization will be started to prevent further erosion of soil from that area. All disturbed areas (except those portions covered by pavement or a structure) will be finally stabilized once all construction activities are completed in order to inactivate the permit coverage. Sediment that collects within the site's drainage system and permanent water quality or quantity controls will also be removed prior to the site being finally stabilized. All temporary erosion and sediment control measures will be removed. All site grading and stormwater capture areas will be designed to prevent the flow of water across the site and into the drainage to the north east.
2	Storm Water/Erosion Control	Efforts for final stabilization will begin to take place as soon as the construction comes to an end. During the beginning of the production phase of the site, the site will be become finally stabilized and will remain so throughout the production phase of the site. Generally, the state of being finally stabilized is indicated by site areas not being utilized for production operational activities to be returned to pre-existing conditions; grades being returned to pre-construction elevations; areas not being utilized for agricultural purposes, production purposes, or treated with road base will be seeded. 70% coverage in vegetation for areas outside of necessary production operations will be considered permanently stabilized; this includes slopes, ditches, and other areas where revegetation is necessary. All site grading and stormwater capture areas will be designed to prevent the flow of water across the site and into the drainage to the north east.
3	Construction	Lighting abatement measures shall be implemented, including the installation lighting shield devices on all of the more conspicuous lights, low density sodium lighting where practicable; and rig shrouding to the east and west as far as is practicable and the directing of lights away from structures.
4	Noise mitigation	Permanent equipment on location shall be muffled to reduce noise, or shall be appropriately buffered.
5	Noise mitigation	Temporary engineering controls consisting of perimeter sound walls shall be used on the location during drilling and completion activities to provide noise relief to nearby residents at a minimum to the east and west.

Total: 5 comment(s)