

FORM  
2A

Rev  
08/13

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:

400577758

Date Received:

08/29/2014

Oil and Gas Location Assessment

New Location     Refile     Amend Existing Location    Location#: \_\_\_\_\_

Submit signed original form. This Oil and Gas Location Assessment is to be submitted to the COGCC for approval prior to any ground disturbance activity associated with oil and gas operations. Approval of this Oil and Gas Location 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. Please see the COGCC website at <http://cogcc.state.co.us/> for all accompanying information pertinent this Oil and Gas Location Assessment.

Location ID:

**439637**

Expiration Date:

**10/30/2017**

This location assessment is included as part of a permit application.

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.

Operator

Operator Number: 10474  
 Name: MENDELL FINISTERRE II LLC  
 Address: 2162 W EISENHOWER BLVD  
 City: LOVELAND    State: CO    Zip: 80537

Contact Information

Name: Paul Gottlob  
 Phone: (720) 420-5747  
 Fax: (720) 420-5800  
 email: paul.gottlob@iptenergyservices.com

RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20130072     Gas Facility Surety ID: \_\_\_\_\_  
 Waste Management Surety ID: \_\_\_\_\_

LOCATION IDENTIFICATION

Name: AFTON / ALICIA    Number: BATTERY  
 County: ADAMS  
 Quarter: SWSE    Section: 12    Township: 1S    Range: 68W    Meridian: 6    Ground Elevation: 5145

Define a single point as a location reference for the facility location. When the location is to be used as a well site then the point shall be a well location.

Footage at surface: 952 feet FSL from North or South section line  
1480 feet FEL from East or West section line

Latitude: 39.974580    Longitude: -104.945560

PDOP Reading: 1.8    Date of Measurement: 08/07/2014

Instrument Operator's Name: BRIAN BRINKMAN

## RELATED REMOTE LOCATIONS

(Enter as many Related Locations as necessary. Enter the Form 2A document # only if there is no established COGCC Location ID#)

This proposed Oil and Gas Location is:

LOCATION ID #

FORM 2A DOC #

Production Facilities Location serves Well(s)

434921

400553008

## FACILITIES

Indicate the number of each type of oil and gas facility planned on location

Wells	Oil Tanks	30	Condensate Tanks	Water Tanks	10	Buried Produced Water Vaults
Drilling Pits	Production Pits		Special Purpose Pits	Multi-Well Pits		Temporary Large Volume Above Ground Tanks
Pump Jacks	Separators	18	Injection Pumps	Cavity Pumps		
Gas or Diesel Motors	Electric Motors		Electric Generators	Fuel Tanks		Gas Compressors
Dehydrator Units	Vapor Recovery Unit	2	VOC Combustor	18	Flare	LACT Unit
						Pigging Station

## OTHER FACILITIES

Other Facility Type

Number

Gas Meter

2

Per Rule 303.b.(3)C, description of all oil, gas, and/or water pipelines:

Intra-facility flow lines are generally 3" (although may be 2") fusion bonded schedule 40 steel. Fusion bonded schedule 80 steel from wellhead to separators. High pressure lines will be tested up to 3000 psi. Polypipe water lines. 1" supply polypipe line to ECD.

This Afton/Alicia Facility will serve both: 1. Afton Pad wells where the currently producing Afton 12-16H-4, API# 05-001-09778 is located to the SE of this proposed Facility. This well is currently producing to a temporary facility located in between this proposed facility and the Afton Pad. And 2: the Alicia Pad wells of which (5) of (10) permits will be in process about the same time as this 2A.

The Location ID reference point is noted on the Location Drawing as a center point on the pad. The Facility pad will mostly in the SWSE Qtr/Qtr but will also overlap into the SESE Qtr/Qtr.

## CONSTRUCTION

Date planned to commence construction: 10/30/2014 Size of disturbed area during construction in acres: 2.20

Estimated date that interim reclamation will begin: 01/30/2015 Size of location after interim reclamation in acres: 2.20

Estimated post-construction ground elevation: 5139

## DRILLING PROGRAM

Will a closed loop system be used for drilling fluids: No

Is H<sub>2</sub>S anticipated? No

Will salt sections be encountered during drilling: No

Will salt based mud (>15,000 ppm Cl) be used? No

Will oil based drilling fluids be used? No

## DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: \_\_\_\_\_ Drilling Fluids Disposal Method: \_\_\_\_\_

Cutting Disposal: \_\_\_\_\_ Cuttings Disposal Method: \_\_\_\_\_

Other Disposal Description:

\_\_\_\_\_

Beneficial reuse or land application plan submitted? No

Reuse Facility ID: \_\_\_\_\_ or Document Number: \_\_\_\_\_

Centralized E&P Waste Management Facility ID, if applicable: \_\_\_\_\_

## SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name: E470

Phone: 303-537-3404

Address: 22470 E 6th Parkway, Suite 110

Fax: \_\_\_\_\_

Address: \_\_\_\_\_

Email: \_\_\_\_\_

City: Aurora State: CO Zip: 80018

Surface Owner:  Fee  State  Federal  Indian

Check all that apply. The Surface Owner:  is the mineral owner

is committed to an oil and Gas Lease

has signed the Oil and Gas Lease

is the applicant

The Mineral Owner beneath this Oil and Gas Location is:  Fee  State  Federal  Indian

The Minerals beneath this Oil and Gas Location will be developed from or produced to this Oil and Gas Location: Yes

The right to construct this Oil and Gas Location is granted by: Surface Use Agreement

Surface damage assurance if no agreement is in place: \_\_\_\_\_ Surface Surety ID: \_\_\_\_\_

Date of Rule 306 surface owner consultation \_\_\_\_\_

## CURRENT AND FUTURE LAND USE

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

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

## CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building: 174 Feet  
Building Unit: 375 Feet  
High Occupancy Building Unit: 2274 Feet  
Designated Outside Activity Area: 5280 Feet  
Public Road: 557 Feet  
Above Ground Utility: 763 Feet  
Railroad: 234 Feet  
Property Line: 78 Feet

### INSTRUCTIONS:

- All measurements shall be provided from center of nearest Well or edge of nearest Production Facility to nearest of each cultural feature as described in Rule 303.b.(3)A.  
- Enter 5280 for distance greater than 1 mile.  
- Building - nearest building of any type. If nearest Building is a Building Unit, enter same distance for both.  
- Building Unit, High Occupancy Building Unit, and Designated Outside Activity Area - as defined in 100-Series Rules.

## DESIGNATED SETBACK LOCATION INFORMATION

Check all that apply. This location is within a:  Buffer Zone  
 Exception Zone  
 Urban Mitigation Area

- Buffer Zone - as described in Rule 604.a.(2), within 1,000' of a Building Unit.  
- Exception Zone - as described in Rule 604.a.(1), within 500' of a Building Unit.  
- Urban Mitigation Area - as defined in 100-Series Rules.

Pre-application Notifications (required if location is within 1,000 feet of a building unit):

Date of Rule 305.a.(1) Urban Mitigation Area Notification to Local Government: \_\_\_\_\_  
Date of Rule 305.a.(2) Buffer Zone Notification to Building Unit Owners: 12/19/2013

## SOIL

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.org/> 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: UIC: Ulm loam  
NRCS Map Unit Name: \_\_\_\_\_  
NRCS Map Unit Name: \_\_\_\_\_

## 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: Western wheatgrass, Green needlegrass, Needleandthread, Blue grama.

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): \_\_\_\_\_

## WATER RESOURCES

Is this a sensitive area:  No  Yes

Distance to nearest

downgradient surface water feature: 490 Feet

water well: 460 Feet

Estimated depth to ground water at Oil and Gas Location 110 Feet

Basis for depth to groundwater and sensitive area determination:

Static water level was determined from the nearest water well to location with applicable data: Permit # 123045- , located SESE Sec 12-T1S-R68W. Well has a static water level of 120'. There is no elevation listed for this well, but topographic maps show it as approximately 10' below location. Correcting for this difference results in an estimate of 110' to groundwater at location.

This area is within 1/8 mile of a what appears to be a domestic water well, therefore, according to the COGCC definition, will be considered as a sensitive area.

Nearest downgradient surface water feature is a pond located 490' SE from the reference point.

Ditch located directly north of the location, displayed on the hydrology map, is not a downgradient surface water feature. Land directly north of location to E470 contains tall grass and no moisture. NRCS reports no frequency of flooding and ponding in the area.

Tertiary containment berm will further seclude battery from land beyond proposed location.

Is the location in a riparian area:  No  Yes

Was an Army Corps of Engineers Section 404 permit filed  No  Yes If yes attach permit.

Is the location within a Rule 317B Surface Water Supply Area buffer No 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: \_\_\_\_\_

## GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule N/A

## DESIGNATED SETBACK LOCATION EXCEPTIONS

Check all that apply:

- Rule 604.a.(1)A. Exception Zone (within 500' of Building Unit)
- Rule 604.b.(1)A. Exception Location (existing or approved Oil & Gas Location now within a Designated Setback as a result of Rule 604.a.)
- Rule 604.b.(1)B. Exception Location (existing or approved Oil & Gas Location is within a Designated Setback due to Building Unit construction after Location approval)
- Rule 604.b.(2) Exception Location (SUA or site-specific development plan executed on or before August 1, 2013)
- Rule 604.b.(3) Exception Location (Building Units constructed after August 1, 2013 within setback per an SUA or site-specific development plan)

## RULE 502.b VARIANCE REQUEST

- Rule 502.b. Variance Request from COGCC Rule or Spacing Order Number \_\_\_\_\_

ALL exceptions and variances require attached Request Letter(s). Refer to applicable rule for additional required attachments (e.g. waivers, certifications, SUAs).

## OPERATOR COMMENTS AND SUBMITTAL

Comments

A Surface Use Agreement has already been signed by E470 and will be submitted as soon as they finish up the exhibits.

Related Remote Locations:

1. Alicia Pad Doc # 400553008 will have only wells on it and all wells will produce to this Afton/Alicia Battery.
2. Afton HZ Pad # 434921 is a temporary facility: all of the wells producing to it will be re-routed to this Afton/Alicia Battery being permitted.

This Afton/Alicia Facility will serve both: 1. Afton Pad wells where the currently producing Afton 12-16H-4, API# 05-001-09778 is located to the SE of this proposed Facility. This well is currently producing to a temporary facility located in between this proposed facility and the Afton Pad. And 2: the Alicia Pad wells of which (1) of (10) permits will be in process about the same time as this 2A.

The Location ID reference point is noted on the Location Drawing as a center point on the pad. The Facility pad will mostly in the SWSE Qtr/Qtr but will also overlap into the SESE Qtr/Qtr.

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

Signed: \_\_\_\_\_ Date: 08/29/2014 Email: paul.gottlob@iptenergyservices.com

Print Name: Paul Gottlob Title: Regulatory & Engin. Tech.

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: 10/31/2014

### **Conditions Of Approval**

**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.**

#### **COA Type**

#### **Description**

<b><u>COA Type</u></b>	<b><u>Description</u></b>
	Operator shall use enclosed combustion during all stages of drilling and operations.
	Operator shall provide notice to COGCC 48 hours prior to commencing construction of this Oil and Gas Location via Form 42.

## Best Management Practices

No	BMP/COA Type	Description
1	Community Outreach and Notification	All possible alternatives for the production facility location have been considered. The production facility is located in the best possible location. It will be placed in a low lying area to shield it from view from surrounding building units. The facility will be surrounded on the south side by a vegetated berm to shield it from view. The berm will mitigate the visual impact on the surrounding building units. Low profile tanks will be used to mitigate the visual impact on the surrounding building units.
2	Traffic control	Access road shall be reasonably maintained, and only one access road shall be used. Operator agrees to grade access road when Operator's trucks create ruts in road that are deeper than normal residential impact. Said grading shall be done within seven days of notification of unacceptable Condition. Access speed limit shall be 15 mph beginning at start of gravel. Operator will remove snow from all roads used to access the battery and the driveway to the house, to the edge of the concrete when accumulation is greater than 6 inches.
3	General Housekeeping	Removal of surface trash. All trash, debris and material not intrinsic to the operation of the oil and gas facility shall be removed and legal disposed of as applicable. Production pad site shall be kept weed-free at all times. Any fences damaged by Operator shall be promptly repaired.
4	General Housekeeping	Lights and visual impacts. The production facility will have no permanent lighting. The land of proposed location is graded lower than land of surface owners to reduce height of facility equipment. Proposed location is planned such that building unit owners directly south maintain view of mountains to the west. Landscaping bushes will be planted along complete southern edge of pad to reduce visibility of the facility from the neighbors to the south.
5	Material Handling and Spill Prevention	Leak Detection Plan. Pumper will visit the location daily and visually inspect all tanks and fittings for leaks. Additionally, monthly document SPCCP inspections are conducted pursuant to 40 CFR 12
6	Material Handling and Spill Prevention	Loadline. All loadlines shall be bullplugged or capped.
7	Material Handling and Spill Prevention	Tank specifications. Tanks will be designed, constructed and maintained in accordance with NFPA Code 30. The tanks are visually inspected once a day for issues, and recorded inspections are conducted once a month.
8	Dust control	Dust mitigation shall be done as-needed, but not to exceed twice a month, and only with water.
9	Construction	Berm construction. Tank berms shall be constructed of steel walls with a synthetic or engineered liner and designed to contain 150% of the capacity of the largest tank. A tertiary containment berm will encompass the battery. All berms will be visually checked periodically to ensure proper working condition.
10	Noise mitigation	All offset building owners are located south of the proposed location and E470 is located directly north. Separator dumphines will face north away from building unit owners. Sound wall will surround the vapor recovery unit.
11	Odor mitigation	VOC's will be recovered and thermally oxidized. No untoward odor will be emitted.
12	Final Reclamation	Identification of plugged and abandoned wells. P&A'd wells shall be identified pursuant to Rule 319.a.(5).

Total: 12 comment(s)

## Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
1009718	306.e CERTIFICATION
2157815	SURFACE AGRMT/SURETY
400577758	FORM 2A SUBMITTED
400577953	WASTE MANAGEMENT PLAN
400580272	OTHER
400672514	NRCS MAP UNIT DESC
400672517	NRCS MAP UNIT DESC
400674642	FACILITY LAYOUT DRAWING
400674643	OTHER
400674644	LOCATION PICTURES
400674650	HYDROLOGY MAP
400674653	OTHER
400674655	ACCESS ROAD MAP
400674674	OTHER
400679440	LOCATION DRAWING

Total Attach: 15 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final Review--passed.	10/31/2014 12:57:55 PM
OGLA	Conducted Onsite Visit on 10/27/2014 to assess potential noise and visual impacts and Operator BMPs to mitigate for potential impacts. Added OPERator BMPs based on the Onsite and subsequent email.	10/28/2014 5:01:56 PM
OGLA	Per 10/28/2014 Operator Email - Added to the Operator BMPs: "All possible alternatives for the production facility location have been considered. The production facility is located in the best possible location. It will be placed in a low lying area to shield if from view from surrounding building units. The facility will surrounded on the south side by a vegetated berm to shield it from view. The berm will mitigate the visual impact on the surrounding building units. Low profile tanks will be used to mitigate the visual impact the surrounding building units."	10/28/2014 4:59:56 PM
Permit	Oper. submitted SUA and changed right to construct to SUA.	10/9/2014 4:00:36 PM
OGLA	Changed Interim Reclamation date to 12/30/2014 for compliance with 1000 Series Rules.	10/2/2014 10:34:19 AM
LGD	This site is accessed by existing access points. These points will be used and no new access points are approved as a result of this application. A Gas and Oil Drilling Rig Move Permit will be required to move the drilling rig both into and out of this location. A Gas and Oil Well Production Facilities permit will be required when the well site is placed into production. Please contact Mr. mark Russell at 720-523-6821 for more information regarding these permits.	9/8/2014 7:33:35 AM
Permit	Passed completeness. Done with Exception Zone review.	9/4/2014 2:27:25 PM
Permit	Ready to pass completeness.  Location drawing now attached. Removed committed to oil and gas lease marking.	9/4/2014 12:46:56 PM
Permit	Before passing completeness, needs the following corrections: 1. Missing Location drawing. 2. Marked that committed to oil and gas lease, when blanket bond is selected.	9/4/2014 10:57:51 AM
Permit	Within Exception Zone, sent to John Noto for review.	9/2/2014 10:48:52 AM

Total: 10 comment(s)