

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:

400553008

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:

**439515**

Expiration Date:

**10/29/2017**

☒ 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: ( )

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: ALICIA    Number: PAD

County: ADAMS

QuarterQuarter: SWSE    Section: 12    Township: 1S    Range: 68W    Meridian: 6    Ground Elevation: 5150

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: 595 feet FSL from North or South section line

1873 feet FEL from East or West section line

Latitude: 39.973600    Longitude: -104.946960

PDOP Reading: 1.5    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 #**

Well Site is served by Production Facilities

400577758

## FACILITIES

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

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

## OTHER FACILITIES

**Other Facility Type**

**Number**

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

Intra-facility flow lines generally 4" fusion bonded schedule 160 steel will connect these wells to the planned Facility Pad (doc #400577758 ) to the North.

The initial submission of Form 2 Well Permits will be 5 of 10 planned wells.

The Location Identification data is from the Alicia 12-15H-4C Surface Hole footages and lat/lon, which is 1 of 6 wells being permitted initially of planned 10 wells.

This Pad of wells will be produced to the north to a separate Facility being permitted by doc #400577758.

## CONSTRUCTION

Date planned to commence construction: 11/01/2014

Size of disturbed area during construction in acres: 3.30

Estimated date that interim reclamation will begin: 04/01/2015

Size of location after interim reclamation in acres: 0.50

Estimated post-construction ground elevation: 5150

## DRILLING PROGRAM

Will a closed loop system be used for drilling fluids: Yes

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: OFFSITE

Drilling Fluids Disposal Method: Commercial Disposal

Cutting Disposal: OFFSITE

Cuttings Disposal Method: Commercial Disposal

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: Michael & Patricia Beard

Phone: \_\_\_\_\_

Address: 15275 Colorado Blvd.

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

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

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

City: Brighton State: CO Zip: 80602

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: 594 Feet  
Building Unit: 657 Feet  
High Occupancy Building Unit: 1903 Feet  
Designated Outside Activity Area: 5280 Feet  
Public Road: 589 Feet  
Above Ground Utility: 1097 Feet  
Railroad: 237 Feet  
Property Line: 163 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: 12/20/2013

## 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 be 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, 3 to 5 percent slopes

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: \_\_\_\_\_

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: 210 Feet

water well: 677 Feet

Estimated depth to ground water at Oil and Gas Location 47 Feet

Basis for depth to groundwater and sensitive area determination:

Closest water well to location has no water level data. Static water level determined from water well permit no. 123044

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 318A

## 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

SUA is attached. Operator notified the Surface Owner and owners of all Building Units that a permit was being sought pursuant to COGCC Rule 305.a.(2) . The notices were sent via certified mail on 12/20/13. The certification is attached as "other".

Please use attached Location Drawing distances (Shown at bottom of the 2nd page for the distances to Nearest Cultural Items.)

The Location Drawing shows this proposed pad surrounding an existing location on 3 sides (Schneider Energy Services with 2 wells: the Ruby #1 & #2), which is a separate location.

The Location Drawing labels were updated to correspond with the Urban Mitigation Area Map saved as "Other" in attachments.

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: Matthew Lee Director of COGCC Date: 10/30/2014

### **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**

	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	Planning	Multi-well Pads. It is a multi-well pad located in a manner which allows for resource extraction while maintaining the highest distances possible from the offsetting residential areas.
2	Traffic control	Access roads. The access road will be constructed to accommodate local emergency vehicles. This road will be maintained for access at all times.
3	General Housekeeping	Fencing requirements. A permanent fencing plan will be reviewed by the surface owner, & the applicant.
4	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 legally disposed of as is applicable.
5	Noise mitigation	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 as necessary. Permanent equipment on location shall be muffled to reduce noise, or shall be appropriately buffered.
6	Odor mitigation	Per Rule 805: Oil & gas facilities and equipment shall be operated in such a manner that odors and dust do not constitute a nuisance or hazard to public welfare.
7	Drilling/Completion Operations	Closed Loop Drilling Systems – Pit Restrictions. Not applicable; a closed-loop system will be used for drilling.
8	Drilling/Completion Operations	Green Completions – Emission Control Systems. Test separators and associated flow lines and sand traps shall be installed on-site to accommodate Green completions techniques pursuant to COGCC Rules. In the anticipated absence of a viable gas sales line, the flow-back gas shall be thermally oxidized in an emissions control device (ECD), which will be installed and kept in operable condition for least the first 90-days of production pursuant to CDPHE rules. This ECD shall have an adequate capacity for 1.5 times the largest flow-back within a 10 mile radius, will be flanged to route gas to other or permanent oxidizing equipment and shall be provided with the equipment needed to maintain combustion where non-combustible gases are present.
9	Drilling/Completion Operations	Blowout preventer equipment (“BOPE”). A double ram and annular preventer will be used during drilling. At least the drilling company shall have a valid well blowout prevention certifications.
10	Drilling/Completion Operations	BOPE for well servicing operations. Adequate BOP equipment shall be used. Stabbing valves shall be installed in the event of reverse circulation and shall be prior tested with low and high pressure fluid.
11	Drilling/Completion Operations	Pit level indicators. Not applicable; a closed-loop system will be used and no pits shall be dug.
12	Drilling/Completion Operations	Drill stem tests. Not applicable; no Drill Stem tests are planned.
13	Drilling/Completion Operations	Control of fire hazards. All materials which are considered fire hazards shall be a minimum of 25’ from the wellhead tanks or separators. Electrical equipment shall comply with API RP 500 and will comply with the current national electrical code. An emergency response plan has been generated for this site.
14	Drilling/Completion Operations	Guy line anchors. All guy line anchors shall be brightly marked pursuant to Rule 604.c (2)Q.
15	Final Reclamation	Well site cleared. Within 90-day subsequent to the time of plugging and abandonment of the entire site, superfluous debris and equipment shall be removed from the site.
16	Final Reclamation	Identification of plugged and abandoned wells. P&A’d wells shall be identified pursuant to 319.a.(5).
Total: 16 comment(s)		

### **Attachment Check List**

<b><u>Att Doc Num</u></b>	<b><u>Name</u></b>
901076	SURFACE AGRMT/SURETY
901079	SURFACE OWNER LIST/MAP
901083	MULTI-WELL PLAN
1009707	OTHER
1009709	FACILITY LAYOUT DRAWING
400553008	FORM 2A SUBMITTED
400574538	NRCS MAP UNIT DESC
400574596	WASTE MANAGEMENT PLAN
400649619	30 DAY NOTICE LETTER
400674606	LOCATION PICTURES
400674616	NRCS MAP UNIT DESC
400679557	ACCESS ROAD MAP
400679560	HYDROLOGY MAP
400679583	LOCATION DRAWING
400679584	OTHER
400679592	FACILITY LAYOUT DRAWING
400679611	FORM 2A SUBMITTED

Total Attach: 17 Files



## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
OGLA	Received Updated Location and Urban Mitigation Zone Drawing. Uploaded revised Drawings - Urban Mitigation Area issue resolved.	10/28/2014 5:15:13 PM
OGLA	Changed Surface Disturbance to 0.50 acres based on the revised Facility layout Drawing and Operator request. Uploaded revised Facility Layout Drawing	10/27/2014 12:48:55 PM
Final Review	ON HOLD - needs certification of Rule 305.a.(1)  RESOLVED - 10/28/2014 - MMH	10/24/2014 6:53:58 PM
Permit	Final Review Completed. No LGD or public comment received.	10/24/2014 10:03:38 AM
OGLA	REMOVED -, located in the SESE of Sec. 12 T1S-R68W (400' FSL, 1300' FEL), approximately 677' southeast of the location. This well, at 420' in depth reported a static water level of 120'. There is no reported elevation for this well, however, review of topographic maps places ground level at approximately 5158'. Correcting water level for the relative differences in elevation results in a static water level of 112'. This is what has been reported above.  Changed Estimated Depth to Groundwater to 47 feet based on DWR Water Well Permit #123044 Changed Basis Statement to "Closest water well to location has no water level data. Static water level determined from water well permit no. 123044"	10/21/2014 11:23:37 AM
Permit	Multi-Well Plan attached now displays 10 wells to match number of wells in the facilities tab.	9/26/2014 3:38:47 PM
Permit	Oper. submitted plat of SUA lands; attached to all APD's. Added one related APD. MWP for 6 wells, but facilities tab lists 10?	9/10/2014 7:40:41 AM
Permit	SUA attached to APD's but incomplete.	9/8/2014 3:31:48 PM
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 7:25:37 AM
Permit	Passed completeness. Done with buffer zone review.	9/4/2014 2:59:54 PM
Permit	Ready to pass completeness once Buffer Zone review is completed.	9/4/2014 10:44:54 AM
OGLA	Appears to be in an Urban Mitigation Area based on cursory review and approx distances from apparent Building Units to edge of planned disturbance. 305.a.(1) local government pre-application notification is missing. Waivers are necessary if Building Units are within 500 feet of the Location. This was communicated to the operator. Pushed to DRAFT.  RREVISIED SURFACE DISTURBANCE - ISSUE RESOLVED - 10/28/2014 - MMH	9/4/2014 8:20:56 AM
Permit	Within Buffer Zone, sent to John Noto for review.	9/2/2014 10:51:19 AM

Total: 13 comment(s)