

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:

400990702

0

Date Received:

04/20/2016

Oil and Gas Location Assessment

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

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:

**446104**

Expiration Date:

**06/09/2019**

☒ 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: 10542

Name: CUB CREEK ENERGY

Address: 200 PLAZA DRIVE SUITE 100

City: HIGHLANDS RANCH State: CO Zip: 80129

Contact Information

Name: Paul Gottlob

Phone: (720) 420-5747

Fax: ( )

email: paul.gottlob@iptenergyservices.com

RECLAMATION FINANCIAL ASSURANCE

☒ Plugging and Abandonment Bond Surety ID: 20140112

☐ Gas Facility Surety ID: \_\_\_\_\_

☐ Waste Management Surety ID: \_\_\_\_\_

LOCATION IDENTIFICATION

Name: MARKHAM

Number: PAD

County: WELD

QuarterQuarter: NWSE Section: 32 Township: 4N Range: 68W Meridian: 6 Ground Elevation: 5043

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: 2325 feet FSL from North or South section line

1514 feet FEL from East or West section line

Latitude: 40.268620 Longitude: -105.023120

PDOP Reading: 1.7 Date of Measurement: 12/30/2015

Instrument Operator's Name: B. ROTTINGHAUS

## 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 #

## FACILITIES

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

|                       |               |                      |               |                      |               |                  |               |                               |               |
|-----------------------|---------------|----------------------|---------------|----------------------|---------------|------------------|---------------|-------------------------------|---------------|
| Wells                 | <u>12</u>     | Oil Tanks*           | <u>14</u>     | Condensate Tanks*    | <u>      </u> | Water Tanks*     | <u>2</u>      | Buried Produced Water Vaults* | <u>      </u> |
| Drilling Pits         | <u>      </u> | Production Pits*     | <u>      </u> | Special Purpose Pits | <u>      </u> | Multi-Well Pits* | <u>      </u> | Modular Large Volume Tanks    | <u>      </u> |
| Pump Jacks            | <u>      </u> | Separators*          | <u>12</u>     | Injection Pumps*     | <u>      </u> | Cavity Pumps*    | <u>      </u> | Gas Compressors*              | <u>      </u> |
| Gas or Diesel Motors* | <u>      </u> | Electric Motors      | <u>      </u> | Electric Generators* | <u>      </u> | Fuel Tanks*      | <u>      </u> | LACT Unit*                    | <u>      </u> |
| Dehydrator Units*     | <u>      </u> | Vapor Recovery Unit* | <u>2</u>      | VOC Combustor*       | <u>4</u>      | Flare*           | <u>      </u> | Pigging Station*              | <u>      </u> |

## OTHER FACILITIES\*

Other Facility Type

Number

\*Those facilities indicated by an asterisk (\*) shall be used to determine the distance from the Production Facility to the nearest cultural feature on the Cultural Setbacks Tab.

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

Intra-facility flowlines are generally 3" (although may be 2") fusion bonded schedule 40 steel.

## CONSTRUCTION

Date planned to commence construction: 06/01/2016 Size of disturbed area during construction in acres: 5.00  
Estimated date that interim reclamation will begin: 12/01/2016 Size of location after interim reclamation in acres: 3.10  
Estimated post-construction ground elevation: 5043

## 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: Markham Family Farms, LLC Phone:

Address: 1283 WCR 38

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

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

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

City: Berthoud State: CO Zip: 80513

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: oil and gas lease

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

Date of Rule 306 surface owner consultation 01/26/2016

## 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

Provide the distance to the nearest cultural feature as measured from Wells or Production Facilities onsite.

|                                   | From WELL | From PRODUCTION FACILITY |
|-----------------------------------|-----------|--------------------------|
| Building:                         | 553 Feet  | 429 Feet                 |
| Building Unit:                    | 668 Feet  | 539 Feet                 |
| High Occupancy Building Unit:     | 5280 Feet | 5280 Feet                |
| Designated Outside Activity Area: | 5280 Feet | 5280 Feet                |
| Public Road:                      | 1504 Feet | 1494 Feet                |
| Above Ground Utility:             | 2741 Feet | 2614 Feet                |
| Railroad:                         | 5280 Feet | 5280 Feet                |
| Property Line:                    | 151 Feet  | 35 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.
- For measurement purposes only, Production Facilities should only include those items with an asterisk(\*) on the Facilities Tab.

## 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.  
- Large UMA Facility - 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: 03/18/2016

## FOR MULTI-WELL PADS AND PRODUCTION FACILITIES WITHIN DESIGNATED SETBACK LOCATIONS ONLY:

☒ Check this box if this Oil and Gas Location has or will have Production Facilities that serve multiple wells (on or offsite) and the Production Facilities are proposed to be located less than 1,000 feet from a Building Unit. *(Pursuant to Rule 604.c.(2)E.i., the operator must evaluate alternative locations for the Production Facilities that are farther from the Building Unit, and determine whether those alternative locations were technically feasible and economically practicable for the same proposed development.)*

☒ By checking this box, I certify that no alternative placements for the Production Facilities, farther from the nearest Building Unit, were available based on the analysis conducted pursuant to Rule 604.c.(2)E.i.

In the space below, explain rationale for siting the multi-well Production Facility(ies) that supports your Rule 604.c.(2)E.i determination. Attach documentation that supports your determination to this Form 2A.

The positioning of the well pad and associated multi-well Production Facility was chosen by the Surface Owner, whose Building Unit is the closest at 539' to the South, in conjunction with IPT & the necessity of wellhead placement to successfully drill the full 12 well pad of proposed horizontal wells.  
See attached detailed Siting Rationale.

## 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: #65—Thedalund loam, 3 to 9 percent slopes

NRCS Map Unit Name: #82—Wiley-Colby complex, 1 to 3 percent slopes

NRCS Map Unit Name: #34—Kim loam, 5 to 9 percent slopes

## 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, Needleandthread, Sideoats grama, Blue grama, Bottlebrush squirreltail, Fendler threeawn, Fourwing saltbush, Sand dropseed, Green needlegrass, Little bluestem, Threadleaf sedge, Plains muhly

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: 77 Feet

water well: 1600 Feet

Estimated depth to ground water at Oil and Gas Location 36 Feet

Basis for depth to groundwater and sensitive area determination:

Nearest Downgradient surface water feature: Ditch 77' N, as measured from the North edge of the proposed location. Measured from the Markham 1 well: Nearest Water well: Permit #158797; 1563' NE, Depth 600', Static Water Level of 80'. The next nearest Water well: Permit # 1026; 1844' SE, Depth 34', Static Water Level of 8'. Taking these 2 water wells Static water levels difference divided by 2 = 36' for the Static Water Level for this location since it is midway between the 2 water wells.

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: \_\_\_\_\_

Is the Location within a Floodplain? ☒ No ☐ Yes Floodplain Data Sources Reviewed (check all that apply)

☒ Federal (FEMA)

☒ State

☒ County

☐ Local

☐ Other \_\_\_\_\_

## 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 a Building Unit) and is in an Urban Mitigation Area
- ☐ 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 | <p>The Footages &amp; Lat/Lon on the Location ID tab reference the Markham 1 well. There will be 12 HZ wells on this pad - but only the Markham 3 thru Markham 10 are being submitted at this time. The remaining Markham 1, 2, 11 &amp; 12 will be submitted once the PSU's are finalized.</p> <p>Reference Area Pictures without snow will be submitted with a Form 4 within 12 months of Form 2A approval.</p> <p>Cub Creek intends to purchase water from the surface owner for completion operations. Doing so will allow the operator to drastically reduce truck traffic to and from the location.</p> <p>Distance measurements from the production facility were measured from the outline of the production facility box. Doing so allows an added buffer to surrounding building unit owners. In the unanticipated event that additional equipment is needed onsite, the current distance measurements and permitted disturbance will allow for adjustments without substantially changing the permitted locations.</p> |
|----------|---|

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

Signed: \_\_\_\_\_ Date: 04/20/2016 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: 6/10/2016

## 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

|  |  |
|--|--|
|  |  |
|--|--|

## Best Management Practices

| No | BMP/COA Type | Description  |
|----|--------------|--|
| 1  | Planning     | 604.c(2)M. Fencing: The surface owner at this location will not be fenced, due to interference with the sod farming operation. Fencing around the property already exist to prevent unauthorized entry.  |
| 2  | Planning     | 804. Visual Impacts: All long term facility structures will be painted a color that enables the facilities to blend in with the natural background color of the landscape, as seen from a viewing distance and location typically used by the public. Maintain appearance with garbage clean-up; a trash bin will be located on site to accumulate waste by the personnel drilling the wells. Site will have unused equipment, trash and junk removed immediately. |

|    |  |  |
|----|--|--|
| 3  | Planning                               | 604.c.(2)N. Control of fire hazards: All material that is considered a fire hazard shall be a minimum of 25' from the wellhead tanks or separators. Electrical equipment shall comply with API IRP 500 and will comply with the current national electrical code.  |
| 4  | Traffic control                        | 604.c.(2)S. Access Roads: The access road will be constructed to accommodate local emergency vehicles. This road will be maintained for access at all times. Traffic will be routed to minimize local interruption. Dust control measures including, speed restrictions, regular road maintenance, and water trucks will be utilized at the site and along the access road. Where possible the operator will limit truck traffic during nighttime hours to mitigate visual impacts due to lights. During night operations the operator will use 2 way radios at this location to reduce the need to horn signaling for traffic along the access road.  |
| 5  | Traffic control                        | 604.c.(2)D: If required by the local government, a traffic plan shall be coordinated with the local jurisdiction prior to commencement of move in and rig up. Any subsequent modification to the traffic plan must be coordinated with the local jurisdiction. Cub Creek is in contact with the Town of Mead for traffic and has SUPs with the Town regarding traffic.   |
| 6  | General Housekeeping                   | 604.c.(2)P. Trash Removal: All trash, debris and material not intrinsic to the operation of the oil and gas facility shall be removed and legally disposed of as applicable.   |
| 7  | Material Handling and Spill Prevention | 604.c.(2)f. Operator will monitor production facilities on a regular schedule (daily) to identify fluid leaks, including, but not limited to, visually inspecting all wellheads, tanks and fittings. Wells will be constructed with remote shut in capabilities. Tanks will have level monitoring which will alert the operator and shut the facility in if triggered. Additionally annual SPCC inspections will be conducted and documented. Annual flowline testing will also occur according to COGCC rules 110 and 1102. All inspection records will be kept for a period of 3 years and made available to COGCC upon request.   |
| 8  | Material Handling and Spill Prevention | 604.c.(2)R Tank Specifications: Tanks will be designed, constructed and maintained in accordance with NFPA Code 30. The tanks will be visually inspected once a day for issues, and recorded inspections are conducted once a month.   |
| 9  | Material Handling and Spill Prevention | 604.c.(2).K. Pit level indicators shall be used for tanks on location.   |
| 10 | Construction                           | 604.c.(3)B. Berm Construction. Tank berms shall be constructed of steel rings with a synthetic or engineered liner and designed to contain 150% of the capacity of the largest tank. All berms will be visually checked periodically to ensure proper working condition. Secondary containment devices shall be sufficiently impervious to contain any spilled or released material. Tertiary containment, such as an earthen berm, will be installed around production facilities. Berms will be visually inspected daily to ensure proper working condition. Inspection and record retention of berm inspections will be in accordance per SPCC regulation. All records will be retained for a period of 3 years made available to the COGCC upon request. |
| 11 | Construction                           | 803 Light sources during all phases of operations will be directed downwards and away from occupied structures where possible. Once the drilling and completion rigs leave the site, there will be no permanently installed lighting on site. Lighting shall be mounted at compressor stations on a pole or building and directed downward to illuminate key areas within the facility, while minimizing the amount of light projected outside the facility.   |
| 12 | Construction                           | 604.c.(2).Q. All guy line anchors left buried for future use shall be identified by a marker of bright color not less than four (4) feet in height and not greater than one (1) foot east of the guy line anchor.  |
| 13 | Construction                           | 604.c.(2).E. This will be a multi-well pad.  |
| 14 | Construction                           | The operator plans to use temporary tanks on location until flow back is complete. In an attempt to reduce the impact of long term facility's the operator plans to use temporary tank at this site during flowback. All tanks will be placed within the permitted disturbance. The operator anticipate the tank will be on location for 90 days. All temporary tank will be sealed and plumbed into the line that will exist from the permeant battery to the ECD.<br>Secondary containment will be used for the temporary tanks and will be sized to comply with both Rule 605.5.(4) and 40 C.F.R. 112.8(c)(2). Generally , this consist of synthetic liner with pop-ups sides, although is sometimes an earthen berm.                                     |

|    |                      |   |
|----|----------------------|---|
| 15 | Noise mitigation     | 604.c.(2)A. Sound walls and/or hay bales will be used where necessary to surround the well site during drilling operations since there are 2 Building Units between 539' to 1000' away.   |
| 16 | Noise mitigation     | Cub Creek Energy met with surrounding building unit owners prior to submitting the permit. In these meetings the operator agreed to install sound wall on all sides of the location to mitigate noise impact. Sound wall will remain in place throughout drilling and completions operations.   |
| 17 | Emissions mitigation | 604.c.(2)C.i. Green Completions - Emission Control System: 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 flowback 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 flowback 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 combustions where non-combustible gases are present. There is a sales line that will be tied into for gas sales. The gas sales line will be in place prior to first production. |
| 18 | Odor mitigation      | 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. Odors will be managed by engine filters and well gas will initially be flared until connected to sales line.   |

Total: 18 comment(s)

### **Attachment Check List**

| <b><u>Att Doc Num</u></b> | <b><u>Name</u></b>                    |
|---------------------------|---------------------------------------|
| 1668958                   | LOCATION PICTURES                     |
| 1668959                   | CORRESPONDENCE                        |
| 1668960                   | REFERENCE AREA PICTURES               |
| 1668962                   | RULE 306.E. CERTIFICATION             |
| 400990702                 | FORM 2A SUBMITTED                     |
| 400990762                 | CONST. LAYOUT DRAWINGS                |
| 400990848                 | NRCS MAP UNIT DESC                    |
| 400990850                 | NRCS MAP UNIT DESC                    |
| 400990851                 | NRCS MAP UNIT DESC                    |
| 400997188                 | HYDROLOGY MAP                         |
| 401026368                 | MULTI-WELL PLAN                       |
| 401026371                 | REFERENCE AREA MAP                    |
| 401026378                 | SURFACE AGRMT/SURETY                  |
| 401026382                 | RULE 305A CERTIFICATION OF COMPLIANCE |
| 401026398                 | WASTE MANAGEMENT PLAN                 |
| 401031998                 | OTHER                                 |
| 401032002                 | FACILITY LAYOUT DRAWING               |
| 401032006                 | SITING RATIONALE                      |
| 401032805                 | LOCATION DRAWING                      |
| 401032808                 | OTHER                                 |
| 401037053                 | ACCESS ROAD MAP                       |

Total Attach: 21 Files

### **General Comments**

| <b><u>User Group</u></b> | <b><u>Comment</u></b>   | <b><u>Comment Date</u></b> |
|--------------------------|-------------------------|----------------------------|
| Permit                   | Final Review Completed. | 3/9/2016 8:19:35 AM        |



|        |   |                          |
|--------|---|--------------------------|
| OGLA   | Based on the information provided by the Operator, COGCC has determined that this proposed Oil and Gas Location meets the requirements for conditional approval based on compliance with COGCC Rules, including, but not limited to; Rule 604 Series Setback and Mitigation Measures. The Operator has presented a siting rationale for the Production Facilities in the Buffer Zone and Best Management Practices that adequately address site specific environmental, health, safety and welfare concerns. OGLA review complete and task passed.  | 6/8/2016<br>10:58:30 AM  |
| OGLA   | Received additional BMPs for leak detection, fencing, berm construction, and sales line. Added information to the BMP section. OGLA technical review complete   | 6/8/2016<br>10:54:29 AM  |
| OGLA   | Talked to Operator regarding public comment on traffic concerns. Operator sent back via email for traffic and nuisance mitigation measures and updated BMPs to reflect changes -<br>"As discuss in our meeting on 5/16/16, Cub Creek met with multiple building unit owners and the surface owner around the Markham location. After meeting with all owners who raised concerns known to Cub Creek, an agreement was reached on mitigating sound, light, and dust impacts for the site. These BMP's are included in the submitted 2A. At this time Cub Creek Energy is not aware of any outstanding concerns. "<br><br>Additionally, in an effort to address Weld County LGD Troy Swains comment on the 2A . Cub Creek went a step beyond the COGCC noticing requirements by sending a certified letter to the Building Unit owner mentioned in the LGD's comment. The letter included a direct line of contact with Cub Creek Energy , as well as detailed information about the project. - ( See Proof of Certified Mailing Attached)<br><br>At this time Cub Creek Energy has addressed all known concerns raised by neighbors of this project. Cub Creek is committed to being a good neighbor and will continue to do so throughout the project." | 5/2/2016 1:42:34<br>PM   |
| Permit | Permitting Review Complete.   | 5/2/2016 8:54:41<br>AM   |
| OGLA   | Email response from Operator - 4 VOC combustors on the facility list are the same as the 4 ECD on the facility layout drawing. Confirmed the distance to the property line is 151 feet. Change the depth to groundwater to be 15 feet (discussed as well) for between 8 and 20 feet dtw and sensitive area (BMP #9 cover mitigation). Added information for tanks and other - email correspondence is attached. Operator sent over location and reference area photos during the current growing season - attached.   | 5/23/2016<br>11:42:15 AM |
| OGLA   | Public comment period extended from 20 to 30 days at request of LGD   | 5/17/2016<br>4:26:44 PM  |
| LGD    | This proposed oil and gas facility is located in unincorporated Weld County. The access road is proposed off Weld County Road 5, which is in the Town of Mead. The homeowner (18417 WCR 5) along the access road may need the operator to ensure that mitigation measures are employed for noise, dust, and light from access road traffic. There are no mitigation measures proposed in the permit for the access road. Oil and Gas Exploration and Production activities are currently considered a Use by Right in the Agricultural Zoned District and no land use permitting is required by the County. A building permit is required for the production facilities (tank battery, separators, pump jacks, generators, compressors, etc.) from the Department of Planning Services. A new or expanded access from a county road or the use of a right-of-way requires a permit from the Department of Public Works. Troy Swain, Weld Oil and Gas Liaison and LGD (970) 353-6100, ext. 3579.   | 5/17/2016<br>3:59:54 PM  |
| OGLA   | meeting with Operator on 5/16/2016. Operator discussed communications with surrounding building unit owners and the surface owner. Send follow up email on groundwater, tanks size/distance, water source, equipment on the location, temporary tanks including emissions controls and secondary containment, and if DA will need to be increased for additional equipment.   | 5/17/2016<br>3:15:01 PM  |
| OGLA   | Check with Operator regarding distance of tanks to property line and ask about water resources depth to water and distance to water well.   | 5/5/2016 4:05:30<br>PM   |

|        |   |                          |
|--------|---|--------------------------|
| Permit | Passed completeness.  | 4/29/2016<br>8:42:24 AM  |
| OGLA   | passed buffer zone completeness reveiw  | 4/29/2016<br>8:38:46 AM  |
| Permit | - Reference Area Pictures noted as being provided via Form 4 within 12 months.<br>- Access Road Map now attached.<br>- Rule 305 Cert Letter and Construction Layout Drawings now properly labeled.                                      | 4/28/2016<br>9:07:33 AM  |
| Permit | Returned to Draft:<br>- Reference Area Pictures must be taken during growing season<br>- Missing required Access Road Map<br>- Relabel attached Rule 305A Certification of Compliance<br>- Relabel attached Construction Layout Drawing | 4/26/2016<br>12:14:53 PM |
| Permit | Referred to OGLA Supervisor for buffer zone review.   | 4/25/2016<br>8:46:37 AM  |

Total: 15 comment(s)