

FORM  
2A

Rev  
04/18

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:

401615946

Date Received:

05/25/2018

Oil and Gas Location Assessment

☐ New Location ☐ Refile ☒ Amend Existing Location Location#: 318981

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:

**318981**

Expiration Date:

**07/12/2021**

☒ 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: 10459  
Name: EXTRACTION OIL & GAS INC  
Address: 370 17TH STREET SUITE 5300  
City: DENVER State: CO Zip: 80202

Contact Information

Name: Kelsi Welch  
Phone: (720) 354-4607  
Fax: ( )  
email: kwelch@extractionog.com

FINANCIAL ASSURANCE

☒ Plugging and Abandonment Bond Surety ID (Rule 706): 20130028 ☐ Gas Facility Surety ID (Rule 711): \_\_\_\_\_

☐ Waste Management Surety ID (Rule 704): \_\_\_\_\_

LOCATION IDENTIFICATION

Name: Rinn Valley East Number: Pad  
County: WELD  
QuarterQuarter: SWSE Section: 17 Township: 2N Range: 68W Meridian: 6 Ground Elevation: 4924  
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: 758 feet FSL from North or South section line  
1775 feet FEL from East or West section line  
Latitude: 40.133569 Longitude: -105.023995  
PDOP Reading: 1.2 Date of Measurement: 01/30/2018  
Instrument Operator's Name: Travis Winnicki

## 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

455353

## FACILITIES

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

Wells <u>9</u>	Oil Tanks* <u>      </u>	Condensate Tanks* <u>      </u>	Water Tanks* <u>      </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>      </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>      </u>	VOC Combustor* <u>      </u>	Flare* <u>      </u>	Pigging Station* <u>      </u>

## OTHER FACILITIES\*

Other Facility Type

Number

Gas Lift Meter Building

1

\*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:

Extraction will trench flowlines in one piping corridor that runs between the drill pad and the separator pad and be placed at 12" centers. These lines will most likely be 2" or 3" fusion bonded SCH160 steel pipe and have proper cathodic protection throughout the run. Extraction will then sweep up with a long radius that will tie off each line to the appropriate separator. All welds on these are 100% x-ray and hydro tested to the API and Manufactures specs for a class 1500 series flange. Also meets ASME code B31.4.

Temporary completions listed under comments.

## CONSTRUCTION

Date planned to commence construction: 07/09/2018

Size of disturbed area during construction in acres: 8.39

Estimated date that interim reclamation will begin: 01/01/2019

Size of location after interim reclamation in acres: 1.51

Estimated post-construction ground elevation: 4924

## 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? Yes

## 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:

Water based cuttings will go to COGCC facility #449314

Beneficial reuse or land application plan submitted?           

Reuse Facility ID:                      or Document Number:                     

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

## SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name: Rinn Valley Farms, LLC

Phone:                                     

Address: 1266 Weld County Road 20 1/2

Fax:                                     

Address:                                     

Email:                                     

City: Longmont State: CO Zip: 80504

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 01/30/2018

## 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:	523 Feet	644 Feet
Building Unit:	523 Feet	644 Feet
High Occupancy Building Unit:	5280 Feet	5280 Feet
Designated Outside Activity Area:	5280 Feet	5280 Feet
Public Road:	1659 Feet	1566 Feet
Above Ground Utility:	413 Feet	434 Feet
Railroad:	5280 Feet	5280 Feet
Property Line:	143 Feet	83 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: 03/06/2018

## 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 only production facility onsite is the Gas Lift Meter Building and it is 644' north west of the nearest building unit. The proposed location for the Gas Lift Meter Building was chosen based on accessibility in relation to the proposed wellheads and surface owner preference. Moving the Gas Lift Meter Building any further north would unnecessarily expand the surface disturbance, make it less accessible in relation to the proposed wellheads, and place the Gas Lift Meter Building closer to another building unit to the north. Moving the Gas Lift Meter Building further to the west would unnecessarily expand the surface disturbance and place it in the path of the surface owner's center pivot, obstructing agricultural operations. For these reasons, Extraction has determined that the proposed location is the best option.

## 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: 48—Olney fine sandy loam, 3 to 5 percent slopes

NRCS Map Unit Name: 47 - Olney fine sandy loam 1 to 3 percent slopes

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: 341 Feet

water well: 942 Feet

Estimated depth to ground water at Oil and Gas Location 8 Feet

Basis for depth to groundwater and sensitive area determination:

Distance to nearest water feature: 341' NE Concrete Ditch  
Estimated depth to ground water: 8', 3601' SE, Permit #88-GX

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

## WILDLIFE

☐ This location is included in a Wildlife Mitigation Plan

☐ This location was subject to a pre-consultation meeting with CPW held on \_\_\_\_\_

## 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 Extraction is amending the Schlager 62N68W location to change the name to the Rinn Valley East pad and add 8 wells to the location.

The proposed Rinn Valley East N17-20-8N (Doc # 401632183) well was used as the reference point for footages and lat/long location.

Notification Zone Drawing attached as "other".

Temporary equipment for approximately 90 days

- 1 high pressure separator
- 1 low pressure separator
- 1 sealed water tank
- 1 sealed oil tank
- 3-4 Q-5000
- 1 Cimarron style burner
- 8 oil tanks
- 16 water tanks

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

Signed: \_\_\_\_\_ Date: 05/25/2018 Email: kwelch@extractionog.com

Print Name: Kelsi Welch Title: Regulatory Analyst

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: 7/13/2018

**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**

	The Approved Form 2A permit will be posted at the location during construction, drilling, and completions operations.
	Added by CPW: BALD EAGLE Winter Night Roost: No human encroachment from November 15 through March 15 within a ¼ mile radius of an active winter night roost if there is no direct line of sight between the roost and the encroachment activities. No human encroachment from November 15 through March 15 within a ½ mile radius of an active winter night roost if there is a direct line of sight between the roost and the encroachment activities. If periodic visits (such as oil well maintenance work) are required within the buffer zone after development, activity should be restricted to the period between 1000 and 1400 hours from November 15 to March 15.

**Best Management Practices****No BMP/COA Type****Description**

1	Planning	604.c.(2).I. BOPE testing for drilling operations. Upon initial rig-up and at least once every thirty (30) days during drilling operations thereafter, pressure testing of the casing string and each component of the blowout prevention equipment including flange connections shall be performed to seventy percent (70%) of working pressure or seventy percent (70%) of the internal yield of casing, whichever is less. Pressure testing shall be conducted and the documented results shall be retained by the operator for inspection by the Director for a period of one (1) year. Activation of the pipe rams for function testing shall be conducted on a daily basis when practicable.
2	Planning	604.c.(2).K. Pit level Indicators shall be used on location for flowback tanks.
3	Planning	604.c(2)M. The location will be adequately fenced to restrict access by unauthorized persons.

4	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. Flammable liquids shall not be stored within fifty (50) feet of the wellbore, except for the fuel in the tanks of operating equipment or supply for injection pumps. Where terrain and location configuration do not permit maintaining this distance, equivalent safety measures should be taken.
5	Planning	This location is subject to a Weld County Oil and Gas Location Assessment. Extraction is currently working through the WOGLA process with Weld County staff.
6	Traffic control	604.c.(2).E. This location will be a multi-well pad, located in a manner which allows for the greatest distances possible from building units.
7	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. During construction and through the life of this location, Operator may use methods including, but not limited to, watering via water trucks to control fugitive dust. Additionally, the access road will be constructed with aggregate road base material and vehicle speeds will be limited to reduce dust.
8	General Housekeeping	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
9	General Housekeeping	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 .
10	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.
11	Storm Water/Erosion Control	Implement and maintain BMPs to control stormwater runoff in a manner that minimizes erosion, transport of sediment offsite, and site degradation. Co-locate flowlines and/or gathering lines whenever feasible and mitigate any erosion problems that arise due to the construction of any pipeline(s). Location will be covered under Extraction Oil & Gas's field wide permit, permit number COR03M013. Swales around the perimeter of location with use of a sediment base.
12	Material Handling and Spill Prevention	<p>For the testing process the flow of our wells is as follows; From the well, through a sand knockout and into a high pressure, three phase separator that separates out oil, gas and water. Each well produces into its own dedicated high pressure separator.</p> <p>The gas is initially sent to a single Q-5000 combustor where it is burned. Once the well cleans up it is no longer burned but sent down the well flowline to the production facility so that it can be sold.</p> <p>The oil is pushed from the high pressure separator into a low pressure separator. The low pressure separator is in place to allow the oil to flash at a lower pressure. That gas is piped from the low pressure separator, through a liquid knock out and into an ECD that burns those vapors. The oil then goes from the low pressure separator to either a sealed tank or down the flowline and into the production facility where it can be sold. The water goes from the high pressure separator into a sealed tank. Both oil and water tanks are sealed forcing any VOC's through a liquid knock out so they can be burned.</p> <p>During the testing phase, all tanks are set inside of a 2 ft high containment. For 1 well we will set one High Pressure separator, 1 Low pressure, 2 sealed water tanks and 1 sealed oil tank, 1 Q-5000 (can handle up to 3 wells), 2 smaller Cimarron style burners.</p>
13	Dust control	805.c. Operator shall employ practices for control of fugitive dust caused by their operations. Such practices may include, but are not limited to, the use of speed restrictions, regular road maintenance, restriction of construction activity during high-wind days, and silica dust controls when handling sand used in hydraulic fracturing operations. Additional management practices such as road surfacing, wind breaks and barriers may be used.
14	Construction	803. Light sources during all phases of operations will be directed downwards and away from occupied structures where possible.



15	Construction	604.c.(2)F. Leak Detention Plan: Extraction will monitor production facilities weekly at a minimum to a maximum of daily to identify fluid leaks, including, but not limited to, visually inspecting all wellheads, tanks and fittings. Additionally, annual SPCC inspections will be conducted and documented. Annual flowline testing will also occur according to COGCC Rules 1101 and 1102. Inspection and record retention of flowline testing will be in accordance per COGCC regulation. All records will be made available to the COGCC upon request.
16	Construction	604.c.(2).H. Blowout Prevention Equipment ("BOPE"): A double ram and annular preventer will be used during drilling. Stabbing valves shall be installed in the event of reverse circulation and shall be prior tested with low and high pressure fluid.
17	Construction	604.c.(2).Q. Based beams will be used instead of guy line anchors.
18	Noise mitigation	Noise levels will be assessed as necessary and mitigation measures such as, but not limited to, sound walls will be implemented to maintain compliance with Rule 802. and 604.c.(2).A. The sound walls/ haybales are planned for the north, east and south sides of the location. There will also be ~300' of wall on the west side of the location.
19	Emissions mitigation	604.c.(2)C.i. Green Completions - Emission Control System. Test separators, associated flow lines and sand traps shall be installed on-site to accommodate green completions techniques pursuant to COGCC Rules. During flowback, production will be sent through a high pressure separator and into separate sealed oil and water tanks. The tanks will have a dedicated VOC line to capture any vapors. VOC lines are routed a minimum of 75' away from the tanks to a combustor to burn. Any sales gas from the separator will be routed a minimum of 75' away to an enclosed combustor to burn. This is only until the well cleans up to the point that it can go down the flowline to the production facility. The flowback tanks are anticipated to be on location for ~90 days.
20	Emissions mitigation	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.
21	Odor mitigation	805. Oil & gas facilities and equipment shall be operated in such a manner that odors do not constitute a nuisance or hazard to public welfare. Operator will utilize advanced oil based mud systems which target the reduction of aromatics.
22	Drilling/Completion Operations	604.c.(2)B.i. Operator will be utilizing a closed loop system.
23	Drilling/Completion Operations	604.c.(2)J.i & ii. Backup stabbing valves will be required on well servicing operations during reverse circulation. Valves shall be pressure tested before each well servicing operation using both low-pressure air and high-pressure fluid.
24	Drilling/Completion Operations	604.c.(2)L. Closed chamber drill stem tests shall be allowed. All other drill stem tests shall require approval by the Director. No drill stem tests are planned for this location at this time.
25	Drilling/Completion Operations	604.c.(2).O. All loadlines shall be bull plugged or capped.
26	Interim Reclamation	Operator shall be responsible for segregating the topsoil, backfilling, re-compacting, reseeding, and re-contouring the surface of any disturbed area so as not to interfere with Owner's operations and shall reclaim such area to be returned to pre-existing conditions as best as possible with control of all noxious weeds.
27	Final Reclamation	604.c.(2)T. Within 90 days after the time of plugging and abandonment of the entire site, superfluous debris and equipment shall be removed from the site. Identification of plugged and abandoned wells will be identified pursuant to 319.a.(5)
28	Final Reclamation	604.c.(2).U. The operator shall identify the location of the wellbore with a permanent monument as specified in Rule 319.a.(5). The operator shall also inscribe or imbed the well number and date of plugging upon the permanent monument
29	CPW-Wildlife - Avoidance-Bald Eagle	
30	CPW-Wildlife - Avoidance-Bald Eagle	

Total: 30 comment(s)

## Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
2316349	WASTE MANAGEMENT PLAN
2316350	ACCESS ROAD MAP
2316351	NRCS MAP UNIT DESC
2316352	RULE 306.E. CERTIFICATION
2316353	CORRESPONDENCE
2316354	CORRESPONDENCE
2316359	LOCATION DRAWING
2473204	MULTI-WELL PLAN
401615946	FORM 2A SUBMITTED
401645787	NRCS MAP UNIT DESC
401645800	FACILITY LAYOUT DRAWING
401645812	HYDROLOGY MAP
401645838	OTHER
401654475	LOCATION PICTURES
401654477	WASTE MANAGEMENT PLAN
401654478	SURFACE AGRMT/SURETY
401662835	PRE-APPLICATION NOTIFICATION CERTIFICATION

Total Attach: 17 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final review complete.	07/09/2018
OGLA	Operator provided temporary equipment and drawing with location of temporary equipment for completions activities. Added temporary equipment list to comments and replaced location drawing. Added BMP describing green completions during flowback. Updated construction date from 7/1/2018 to 7/9/2018. Added CPW public comment. Operator agreed to COA for SWH Bald Eagle Roost per CPW.  OGLA review complete and task passed.	07/05/2018
OGLA	CPW public comment added by COGCC per email request: (CPW comment) Potential burrowing owl nesting habitats  Colorado Parks & Wildlife (CPW) has mapped potential burrowing owl nesting habitats located in and near this proposed development.  If prairie dogs are present, then CPW recommends that the operator survey for burrowing owls if initial site disturbance will occur in prairie dog towns during the owl's nesting season (March 15 through October 31). Burrowing owl survey protocol can be found here: <a href="https://cpw.state.co.us/Documents/WildlifeSpecies/LivingWithWildlife/RecommendedSurveyOwls.pdf">https://cpw.state.co.us/Documents/WildlifeSpecies/LivingWithWildlife/RecommendedSurveyOwls.pdf</a>  CPW appreciates the collaboration, as we strive for responsible energy development while protecting sensitive habitats.  Should the operator have any questions and/or request a site visit with CPW, please contact CPW's Northeast Region Energy Liaison (Brandon Marett) at (303) 291-7327.	07/03/2018
OGLA	Operator provided 306.e. certification attach and correspondence. Send summary for supervisor review. Supervisor review - would like more a list of temporary equipment and drawing with location of temporary operations (7/2/18).	06/28/2018

OGLA	Operator responded with updated access road map, NRCS #47, additional Waste Management plan and facility number for beneficial reuse, flowback tank information, stormwater mitigation, pit level indicators are on tanks, concurred with CPW timing, and water as sensitive area. Replace access road map and add NRCS and additional Waste Management plan.	06/26/2018
OGLA	OGLA review: Operator did not check CPW consult for SWH location – contact CPW – CPW worked with Operator for SWH of Eagles roost. Operator agrees to timing stipulations for Eagles Roost - added to wildlife section of 2A. Missing NRCS #47, water resources should be sensitive based on depth to groundwater at 8 feet – depth to water based on water well approximately 1900 feet SW , nearest water well has depth to water at 52 feet and is approximately 942 feet north. BMPs – Operator has pit level indicators – ask if being used on tanks or if there will be temporary tanks, where will completions / flowback happen (on or off site), need specifics for stormwater, will guy line anchors be used? Need site specific noise mitigation, need information on green completions and flaring/sales line. Access road map does not show access road from CR 20.5, waste management plan indicates beneficial reuse, but commercial disposal checked, no facility ID, need 306.e. post 6/26 when public comment ends.	06/25/2018
Permit	Status Active - corrections made with Operator concurrence: - added the comment to the Submit tab describing reason for the Amended 2A. - replaced incorrect Multi-well Plan with revised attachment showing all 9 wells. - Operator verified the cultural distance to the nearest utility is correct on this 2A; distances will be changed on the APDs. Permitting review complete.	06/22/2018
Permit	Status Pending - contacted Operator for corrections: - request a revised multi-well plan that shows all 9 wells cited. - verify cultural distance to nearest above-ground utility; does not correspond with any of the APDs on this pad.	06/18/2018
Permit	Passed Completeness.	06/06/2018
OGLA	Passed Buffer Zone completeness review	06/05/2018
OGLA	Buffer Zone completeness review - Missing Rule 303.b.(3)Jiii Pre-application notification certification attachment. Contact operator and push form to Draft.	06/04/2018
Permit	Referred to OGLA manager for buffer zone review.	05/29/2018
CPW-Wildlife - Avoidance-Bald Eagle	Operator proposed the following BMP:  CPW commented as follows: BALD EAGLE Winter Night Roost: No human encroachment from November 15 through March 15 within a ¼ mile radius of an active winter night roost if there is no direct line of sight between the roost and the encroachment activities. No human encroachment from November 15 through March 15 within a ½ mile radius of an active winter night roost if there is a direct line of sight between the roost and the encroachment activities. If periodic visits (such as oil well maintenance work) are required within the buffer zone after development, activity should be restricted to the period between 1000 and 1400 hours from November 15 to March 15.	Stamp Upon Approval

Total: 13 comment(s)