

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:

400518030

Date Received:

02/18/2014

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:

**436642**

Expiration Date:

**04/04/2017**

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: 10450

Name: EE3 LLC

Address: 4410 ARAPAHOE AVENUE #100

City: BOULDER State: CO Zip: 80303

Contact Information

Name: CLAYTON DOKE

Phone: (720) 420-5700

Fax: (720) 420-5800

email: cdoke@iptengineers.com

RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20130007

Gas Facility Surety ID: \_\_\_\_\_

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

LOCATION IDENTIFICATION

Name: RAY RANCH NORTH CENTRAL FACILITY Number: \_\_\_\_\_

County: JACKSON

Quarter: SESW Section: 32 Township: 8N Range: 80W Meridian: 6 Ground Elevation: 8105

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: 779 feet FSL from North or South section line

1409 feet FWL from East or West section line

Latitude: 40.617249 Longitude: -106.401037

PDOP Reading: 1.8 Date of Measurement: 09/25/2013

Instrument Operator's Name: T Trush

## 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)

434832

## FACILITIES

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

Wells	0	Oil Tanks		Condensate Tanks	24	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	1	Injection Pumps		Cavity Pumps			
Gas or Diesel Motors		Electric Motors		Electric Generators		Fuel Tanks		Gas Compressors	
Dehydrator Units		Vapor Recovery Unit		VOC Combustor	1	Flare	1	LACT Unit	
								Pigging Station	

## OTHER FACILITIES

**Other Facility Type**

**Number**

Other Facility Type	Number

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

Buried pipelines from the wellhead to the separator and the separator to the VOC Combustor and the Condensate storage tanks

## CONSTRUCTION

Date planned to commence construction: 04/15/2014 Size of disturbed area during construction in acres: 3.88

Estimated date that interim reclamation will begin: 06/15/2014 Size of location after interim reclamation in acres: 2.00

Estimated post-construction ground elevation: 8105

## DRILLING PROGRAM

Will a closed loop system be used for drilling fluids: \_\_\_\_\_

Is H<sub>2</sub>S anticipated? \_\_\_\_\_

Will salt sections be encountered during drilling: \_\_\_\_\_

Will salt based mud (>15,000 ppm Cl) be used? \_\_\_\_\_

Will oil based drilling fluids be used? \_\_\_\_\_

## DRILLING WASTE MANAGEMENT PROGRAM

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

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

Other Disposal Description:

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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: Kohlman's O.K. Limited Pa

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

Address: 21536 State Highway 14

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

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

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

City: Walden State: CO Zip: 80480

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: \_\_\_\_\_

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: 5280 Feet  
Building Unit: 5280 Feet  
High Occupancy Building Unit: 5280 Feet  
Designated Outside Activity Area: 5280 Feet  
Public Road: 200 Feet  
Above Ground Utility: 129 Feet  
Railroad: 5280 Feet  
Property Line: 198 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: \_\_\_\_\_

## 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: Ra: Randman sandy loam

NRCS Map Unit Name: CyF: Cryorthents, steep

NRCS Map Unit Name: Fe: Fleeer loam

## 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: 73 Feet

water well: 2842 Feet

Estimated depth to ground water at Oil and Gas Location 28 Feet

Basis for depth to groundwater and sensitive area determination:

The nearest water well to location, Receipt # 9118918, does not have a listed static water level. The nearest water well with static water level information is Receipt # 9600886, located NENE Sec 6-T7N-R80W. The well, which is 2842' southwest of the location, pumped with a static water level of 15'. There is no elevation listed for the well, but topographic maps show it as 13' below the location. This leads to the estimated depth to groundwater at location as 28'.

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

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

Signed: \_\_\_\_\_ Date: 02/18/2014 Email: cdoke@iptengineers.com

Print Name: CLAYTON DOKE Title: SENIOR ENGINEER

Based on the information provided herein, this Application for Permit-to-Drill complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved: \_\_\_\_\_



Director of COGCC

Date: 4/5/2014

### **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 pressure test pipelines in accordance with Rule 1101.e.(1) prior to putting into initial service any temporary surface or permanent buried pipelines and following any reconfiguration of the pipeline network.
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	<p>Operator must ensure secondary containment for any volume of fluids contained at central tank battery facility pad site during operations; including, but not limited to, construction of a berm or diversion dike, diversion/collection trenches within and/or outside of berms/dikes, site grading, or other comparable measures sufficiently protective of nearby surface water. Any berm constructed at the tank battery facility pad location will be stabilized, inspected at regular intervals (at least every 14 days), and maintained in good condition.</p> <p>Operator must implement best management practices to contain any unintentional release of fluids, including any fluids conveyed via temporary surface pipelines or buried permanent pipelines.</p> <p>The facility pad shall be constructed as quickly as possible and appropriate BMPs need to be in place both during, after facility pad construction completion, as well as during all operations. Standard stormwater BMPs must be implemented at this location to insure compliance with CDPHE and COGCC requirements and to prevent any stormwater run-on and /or stormwater runoff.</p> <p>The access road will be constructed and maintained as to not allow any sediment to migrate from the access road to nearby surface water or any drainages leading to surface water.</p> <p>Strategically apply fugitive dust control measures, including enforcing established speed limits on private roads, to reduce fugitive dust and coating of vegetation and deposition in water sources.</p> <p>Berms or other containment devices shall be constructed to be sufficiently impervious (corrugated steel with poly liner) to contain any spilled or released material around crude oil, condensate, and produced water storage tanks.</p> <p>All tanks and aboveground vessels containing fluids or chemicals used in the storage and transmission processes and operations must have secondary containment structures (which may include, but is not limited to, double-walled tanks). All secondary containment structures/areas must be lined. Operator must ensure 110 percent secondary containment for the largest structure containing fluids within each bermed area of the facility during operations. The construction and lining of the secondary containment structures/areas shall be supervised by a professional engineer or their agent.</p> <p>Additional containment shall be required where temporary or permanent pumps and other necessary equipment or chemicals are located.</p> <p>Operator will use adequately sized containment devices for all chemicals and/or hazardous materials stored or used on location and the facility shall comply with the operators SPCC Plan.</p> <p>Within 30 calendar days of conclusion of the initial grading and earthwork and facility equipment placement, operator shall submit as-built drawings, including plan view and cross-sections (with perpendicular axes), prepared and stamped by a Professional Land Surveyor or Professional Engineer; including the facility pad, location of all equipment and secondary containment, stormwater BMPs, and the access road.</p>
	<p>Notify the COGCC 48 hours prior to start of central tank battery facility pad construction, pipeline testing, and start of operations using Form 42 (the appropriate COGCC individuals will automatically be email notified).</p> <p>Surface water samples from both branches of Mutual Ditch (one upgradient and one downgradient to the facility location) located approximately 73 feet to the west and 438 feet to the east of the facility (if water is present), shall be collected prior to the facility use and every 12 months (until facility closure) to evaluate potential impacts from tank facility operations. At a minimum, the surface water samples will be analyze for the following parameters: major cations/anions (chloride, fluoride, sulfate, sodium); total dissolved solids (TDS); and BTEX/DRO.</p>

## Best Management Practices

<u>No</u>	<u>BMP/COA Type</u>	<u>Description</u>
1	Wildlife	1. Use hospital grade mufflers for compressors, pump jacks, or other motors necessary to run operations at this site. Mufflers will be pointed upward to dissipate potential vibration (not applicable to electric motors). 2. Establish company guidelines to minimize wildlife mortality from vehicle collisions on roads. 3. Install and utilize bear-proof dumpsters and trash receptacles for all food-related trash on location, following COGCC Rule 1204 a-1.

Total: 1 comment(s)

## Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
2106960	CORRESPONDENCE
2106971	CPW CORRESPONDENCE and PROPOSED BMPs
400518030	FORM 2A SUBMITTED
400518066	NRCS MAP UNIT DESC
400556065	SURFACE AGRMT/SURETY
400556194	HYDROLOGY MAP
400556915	ACCESS ROAD MAP
400556946	LOCATION DRAWING
400556963	WASTE MANAGEMENT PLAN
400556970	TOPO MAP
400569214	LOCATION PICTURES
400569288	REFERENCE AREA MAP
400569306	REFERENCE AREA PICTURES

Total Attach: 13 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final review complete.	4/3/2014 1:28:54 PM
DOW	<p>Wildlife Concerns: This location is within greater sage-grouse sensitive wildlife habitat (SWH) and is approximately 2.3 miles from an active greater sage-grouse lek (Railroad New Lek). Given the proximity of this location to State Highway 14, CPW recommends the following wildlife BMPs:</p> <p>1. Use hospital grade mufflers for compressors, pump jacks, or other motors necessary to run operations at this site. Mufflers will be pointed upward to dissipate potential vibration.</p> <p>2. Establish company guidelines to minimize wildlife mortality from vehicle collisions on roads.</p> <p>3. Install and utilize bear-proof dumpsters and trash receptacles for all food-related trash on location, following COGCC Rule 1204 a-1.</p> <p>* CPW appreciates the use of this central facilities location to reduce truck traffic to and from individual well pad locations.</p> <p>By: Taylor Elm, 04/02/2014, 15:46</p>	4/2/2014 3:47:16 PM
Permit	Ready to pass pending public comment 4/2/14.	3/19/2014 11:16:14 AM
OGLA	Initiated/Completed OGLA Form 2A review on 03-15-14 by Dave Kubeczko, placed notification, fluid containment, spill/release BMPs, sediment control access road, dust control, tank berming, secondary containment on all chemical and product tanks/containers, and pipeline testing COAs; sent email indicating COAs to operator on 03-15-14; passed by CPW on 04-02-14 with operator agreed to BMPs acceptable; passed OGLA Form 2A review on 04-02-14 by Dave Kubeczko; notification, fluid containment, spill/release BMPs, sediment control access road, dust control, tank berming, secondary containment on all chemical and product tanks/containers, and pipeline testing COAs.	3/15/2014 11:10:01 AM
Permit	This form has passed completeness.	3/12/2014 9:57:00 AM
Permit	<p>Returned to draft:</p> <p>Missing North, East, and West Location Pictures required by Rule 303.b.(3)B.</p> <p>Missing Reference Area Map required by Rule 303.b.(3)G.ii.</p> <p>Missing N, S, E, W Reference pictures taken during growing season required by Rule 303.b.(3)G.ii. (can submit up to 12 months after the Form 2A).</p>	2/19/2014 8:21:36 AM

Total: 6 comment(s)