

FORM
2A

Rev
04/01

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:

400450827

Date Received:

07/19/2013

Oil and Gas Location Assessment

New Location Amend Existing Location Location#: _____

Submit original plus one copy. This form is to be submitted to the COGCC prior to any ground disturbance activity associated with oil and gas development operations. This Assessment may be approved as a standalone application or submitted as an informational report accompanying an Application for Permit-To-Drill, Form 2. Approval of this 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. This form may serve as notice to land owners and other interested parties, please see the COGCC web site at <http://colorado.gov/cogcc/> for all accompanying information pertinent to this Oil and Gas Location Assessment.

Location ID:

434014

Expiration Date:

08/28/2016

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

1. 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.

2. Operator

Operator Number: 10450
 Name: EE3 LLC
 Address: 4410 ARAPAHOE AVENUE #100
 City: BOULDER State: CO Zip: 80303

3. Contact Information

Name: CLAYTON DOKE
 Phone: (303) 216-0703
 Fax: (303) 216-2139
 email: cdoke@iptengineers.com

4. Location Identification:

Name: HEBRON CENTRAL FACILITY Number: _____
 County: JACKSON
 Quarter: SWNE Section: 7 Township: 7N Range: 80W Meridian: 6 Ground Elevation: 8138

Define a single point as a location reference for the facility location. This point should be used as the point of measurement in the drawings to be submitted with this application. When the location is to be used as a well site then the point shall be a well location.

Footage at surface: 2023 feet FNL, from North or South section line, and 1996 feet FEL, from East or West section line.
 Latitude: 40.593875 Longitude: -106.414203 PDOP Reading: 1.6 Date of Measurement: 06/17/2013
 Instrument Operator's Name: Robert L Kay

5. Facilities (Indicate the number of each type of oil and gas facility planned on location):

Special Purpose Pits: <input type="text"/>	Drilling Pits: <input type="text"/>	Wells: <input type="text"/>	Production Pits: <input type="text"/>	Dehydrator Units: <input type="text"/>
Condensate Tanks: <input type="text" value="5"/>	Water Tanks: <input type="text" value="2"/>	Separators: <input type="text" value="2"/>	Electric Motors: <input type="text"/>	Multi-Well Pits: <input type="text"/>
Gas or Diesel Motors: <input type="text"/>	Cavity Pumps: <input type="text" value="2"/>	LACT Unit: <input type="text"/>	Pump Jacks: <input type="text" value="1"/>	Pigging Station: <input type="text"/>
Electric Generators: <input type="text" value="1"/>	Gas Pipeline: <input type="text" value="1"/>	Oil Pipeline: <input type="text" value="1"/>	Water Pipeline: <input type="text"/>	Flare: <input type="text" value="1"/>
Gas Compressors: <input type="text"/>	VOC Combustor: <input type="text" value="1"/>	Oil Tanks: <input type="text"/>	Fuel Tanks: <input type="text"/>	

Other: 2 Emergency Tanks, 1 Meter Run, 2 Lined Heater Treaters for Traced System, 1 Cuttings Trench

6. Construction:

Date planned to commence construction: 08/20/2013 Size of disturbed area during construction in acres: 2.61
Estimated date that interim reclamation will begin: 11/20/2013 Size of location after interim reclamation in acres: 1.00
Estimated post-construction ground elevation: 8136 Will a closed loop system be used for drilling fluids: Yes No
Will salt sections be encountered during drilling: Yes No Is H2S anticipated? Yes No
Will salt (>15,000 ppm TDS Cl) or oil based muds be used: Yes No
Mud disposal: Offsite Onsite Method: Land Farming Land Spreading Disposal Facility
Other: Back fill and cover

7. Surface Owner:

Name: _____ Phone: _____
Address: _____ Fax: _____
Address: _____ Email: _____
City: _____ State: _____ Zip: _____ Date of Rule 306 surface owner consultation: 06/28/2013
Surface Owner: Fee State Federal Indian
Mineral Owner: Fee State Federal Indian
The surface owner is: the mineral owner committed to an oil and gas lease
 is the executer of the oil and gas lease the applicant
The right to construct the location is granted by: oil and gas lease Surface Use Agreement Right of Way
 applicant is owner
Surface damage assurance if no agreement is in place: \$2000 \$5000 Blanket Surety ID _____

8. Reclamation Financial Assurance:

Well Surety ID: 20130007 Gas Facility Surety ID: _____ Waste Mgnt. Surety ID: _____

9. Cultural:

Is the location in a high density area (Rule 603.b.): Yes No
Distance, in feet, to nearest building: 1927, public road: 54, above ground utility: 2026,
railroad: 5280, property line: 54

10. 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

11. 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

12. Soils:

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.gov/> 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: Bs: Bosler sandy loam

NRCS Map Unit Name: Wa: Walden sandy loam

NRCS Map Unit Name: Gn: Girardot silty clay loam

13. 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: Sagebrush, Muttongrass, Winterfat

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): _____

14. Water Resources:

Rule 901.e. may require a sensitive area determination be performed. If this determination is performed the data is to be submitted with the Form 2A.

Is this a sensitive area: No Yes Was a Rule 901.e. Sensitive Areas Determination performed: No Yes

Distance (in feet) to nearest surface water: 33, water well: 2259, depth to ground water: 19

Is the location in a riparian area: No Yes Was an Army Corps of Engineers Section 404 permit filed No Yes

Is the location within a Rule 317B Surface Water Suppl Area buffer zone:

No 0-300 ft. zone 301-500 ft. zone 501-2640 ft. 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: No Yes

15. Comments:

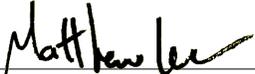
The nearest water well to location is Permit #242234- -, located (SWSE) Sec 6-T7N-R80W, approximately 2259' northwest from location. The well pumped at 15 gpm with a static water level of 2'. There is no elevation listed for this well, but topographic maps show it as approximately 17' below location. Correcting for this difference results in an estimate of 19' to groundwater at location. This has been reported above. Location has been marked as a "sensitive area" due to proximity to surface waters and depth to groundwater. This battery facility is being moved from Facility ID 413754 approximately 1649' northwest from this this 2A.

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

Signed: _____ Date: 07/19/2013 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: 8/29/2013

**CONDITIONS OF
APPROVAL, IF ANY:**

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
	<p>GENERAL SITE COAs:</p> <p>Notify the COGCC 48 hours prior to start of compressor station pad construction and start of operations using Form 42 (the appropriate COGCC individuals will automatically be email notified).</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>Operator must ensure secondary containment for any volume of fluids contained at facilities 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 (i.e., best management practices (BMPs) associated with stormwater management) sufficiently protective of nearby surface water. Any berm constructed at the compressor pad location will be stabilized, inspected at regular intervals (at least every 14 days), and maintained in good condition.</p> <p>The surface soils and materials are fine-grained and moderately unconsolidated; therefore 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>Berms or other containment devices shall be constructed to be sufficiently impervious (preferably 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>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>Surface water samples from the unnamed stream (one upgradient and one downgradient to the facility location) located to the south-southeast 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>

Attachment Check List

Att Doc Num	Name
2106726	CORRESPONDENCE
2106727	PROPOSED BMPs
400450827	FORM 2A SUBMITTED
400450881	NRCS MAP UNIT DESC
400450882	ACCESS ROAD MAP
400450883	HYDROLOGY MAP
400451003	LOCATION DRAWING
400451010	LOCATION PICTURES
400451011	REFERENCE AREA MAP
400451013	REFERENCE AREA PICTURES
400451032	TOPO MAP
400451033	CONST. LAYOUT DRAWINGS
400451037	FACILITY LAYOUT DRAWING
400451040	SURFACE AGRMT/SURETY

Total Attach: 14 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final review complete.	8/27/2013 7:57:45 AM
OGLA	Initiated/Completed OGLA Form 2A review on 08-20-13 by Dave Kubeczko; requested acknowledgement of fluid containment, spill/release BMPs, tank berming, flowback to tanks, secondary containment on all chemical and product tanks/containers, sediment control access road, as built drawings, SW sampling, dust control, and notification COAs from operator on 08-20-13; received acknowledgement of COAs from operator on 08-23-13; already a sensitive area due to close SW (33') and shallow GW (19' bgs); passed by CPW with operator agreed to BMPs acceptable; passed OGLA Form 2A review on 08-26-13 by Dave Kubeczko; fluid containment, spill/release BMPs, tank berming, flowback to tanks, secondary containment on all chemical and product tanks/containers, sediment control access road, as built drawings, SW sampling, dust control, and notification COAs.	8/20/2013 1:08:34 PM
DOW	<p>Wildlife Concerns: This location is within greater sage-grouse PPH and production area SWH. Given these concerns, CPW recommends the following BMPs for this location:</p> <ol style="list-style-type: none"> 1. Establish company guidelines to minimize wildlife mortality from vehicle collisions on roads. 2. Where oil and gas activities must occur within 4 miles of greater sage-grouse leks or within other mapped greater sage-grouse breeding or summer habitat, conduct these activities outside the period between March 1 and June 30. 3. Use hospital grade mufflers for compressors, pump jacks, or other motors necessary to run operations at the site. Mufflers will be pointed upward to dissipate potential vibration. 4. Consider the use of internal combustors for disposal of gasses instead of traditional flaring techniques. 5. Install and utilize bear-proof dumpsters and trash receptacles for all food-related trash on location, following COGCC Rule 1204 a-1. <p>CPW recommends the use of central facilities in order to reduce overall truck traffic to individual well pads.</p> <p>Approved by: Taylor Elm, 8/15/2013, 9:30</p>	8/15/2013 11:06:52 AM
Permit	Ready to pass pending on public comment 8/12/13.	7/22/2013 4:23:07 PM
Permit	Passed completeness.	7/22/2013 9:10:35 AM
Permit	Operator removed the two "Related Forms" as this form is for a facility only.	7/22/2013 9:09:47 AM
Permit	Returned to DRAFT. There are two APD's listed in Related Forms but no wells are listed in the Facilities & Construction tab. Requested review from operator.	7/22/2013 6:08:56 AM

Total: 7 comment(s)

Best Management Practices

No	BMP/COA Type	Description
1	Wildlife	<ol style="list-style-type: none">1. Establish company guidelines to minimize wildlife mortality from vehicle collisions on roads.2. Where oil and gas activities must occur within 4 miles of greater sage-grouse leks or within other mapped greater sage-grouse breeding or summer habitat, conduct these activities outside the period between March 1 and June 30.3. Use hospital grade mufflers for compressors, pump jacks, or other motors necessary to run operations at the site. Mufflers will be pointed upward to dissipate potential vibration.4. Consider the use of internal combustors for disposal of gasses instead of traditional flaring techniques.5. 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)