

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:

400391955

Date Received:

04/23/2013

Oil and Gas Location Assessment

New Location

Amend Existing Location

Location#: 333288

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:

333288

Expiration Date:

09/18/2016

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: MUTUAL PAD

Number: 4-30

County: JACKSON

Quarter: SWSE Section: 30 Township: 7N Range: 80W Meridian: 6 Ground Elevation: 8196

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: 331 feet FSL, from North or South section line, and 1992 feet FEL, from East or West section line.

Latitude: 40.542017 Longitude: -106.414403 PDOP Reading: 2.2 Date of Measurement: 12/20/2007

Instrument Operator's Name: UINTAH ENGINEERING & LAND SURVEYING

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

Special Purpose Pits: <input type="checkbox"/>	Drilling Pits: <input type="checkbox"/> <u>1</u>	Wells: <input type="checkbox"/> <u>2</u>	Production Pits: <input type="checkbox"/> <u>2</u>	Dehydrator Units: <input type="checkbox"/>
Condensate Tanks: <input type="checkbox"/> <u>16</u>	Water Tanks: <input type="checkbox"/>	Separators: <input type="checkbox"/> <u>2</u>	Electric Motors: <input type="checkbox"/>	Multi-Well Pits: <input type="checkbox"/>
Gas or Diesel Motors: <input type="checkbox"/>	Cavity Pumps: <input type="checkbox"/>	LACT Unit: <input type="checkbox"/>	Pump Jacks: <input type="checkbox"/>	Pigging Station: <input type="checkbox"/>
Electric Generators: <input type="checkbox"/>	Gas Pipeline: <input type="checkbox"/>	Oil Pipeline: <input type="checkbox"/>	Water Pipeline: <input type="checkbox"/>	Flare: <input type="checkbox"/>
Gas Compressors: <input type="checkbox"/>	VOC Combustor: <input type="checkbox"/> <u>2</u>	Oil Tanks: <input type="checkbox"/>	Fuel Tanks: <input type="checkbox"/>	

Other: _____

6. Construction:

Date planned to commence construction: 08/15/2013 Size of disturbed area during construction in acres: 2.75
Estimated date that interim reclamation will begin: 02/15/2014 Size of location after interim reclamation in acres: 1.75
Estimated post-construction ground elevation: 8196 Will a closed loop system be used for drilling fluids: Yes
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: 04/02/2008
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: 4248, public road: 4945, above ground utility: 197,
railroad: 5280, property line: 320

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 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: Fo- Forelle loam

NRCS Map Unit Name: Fh- Fluetsch-Tiagos association
NRCS Map Unit Name: SuE- Sudduth loam, 5 to 15 percent slopes

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: _____

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: 308, water well: 2066, depth to ground water: 123
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:

Lands subject to order #531-1 contain both fee and federal minerals; federal lease number COC 062063. SUA is attached. Static water level was determined from water well permit #230238- -, located (SWSW) Sec. 30-T7N-R80W, approximately 2066' northwest from location. This well pumped at a rate of 15 gpm with a static water level of 145'. There is no elevation listed for this well, but topographic maps show it as approximately 20' above location. Correcting for this difference results in an estimate of 125' to groundwater at location. This is what has been reported above. Reference area is located to the north and west of location per the attached map. Reference area pictures are attached. surface owner has waived the Rule 305 notification requirements. Waiver is attached.

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

Signed: _____ Date: 04/23/2013 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: 9/19/2013

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>GROUNDWATER MONITORING COA:</p> <p>Operator shall comply with Rule 609. STATEWIDE GROUNDWATER BASELINE SAMPLING AND MONITORING.</p>
	<p>GENERAL SITE COAs:</p> <p>Notify the COGCC 48 hours prior to start of pad construction, rig mobilization, spud, and start of hydraulic stimulation operations using Form 42 (the appropriate COGCC individuals will automatically be email notified, including the LGD for hydraulic stimulation operations).</p> <p>Reserve pit, or any other pit used to contain/hold fluids, if constructed, must be lined or a closed loop system must be implemented during drilling.</p> <p>The access road will be constructed to prevent sediment migration from the access road to nearby surface water or any drainages leading to other nearby surface waters.</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 well site during drilling and completion 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 well pad location will be stabilized, inspected at regular intervals (at least every 14 days), and maintained in good condition.</p> <p>The moisture content of any cuttings in a cuttings pit, trench, or pile shall be as low as practicable to prevent accumulation of liquids greater than de minimis amounts. At the time of closure, if the drill cuttings are to be left onsite, they must also meet the applicable standards of table 910-1.</p> <p>If the well is to be hydraulically stimulated, then flowback and stimulation fluids must be sent to tanks, separators, or other containment/filtering equipment before the fluids can be placed into any pipeline, storage vessel, or lined pit (only if an amended Form 2A has been submitted/approved and a Form 15 Earthen Pit Permitted has been submitted/approved) located on the well pad; or into tanker trucks for offsite disposal. The flowback and stimulation fluid tanks, separators, or other containment/filtering equipment must be placed on the well pad in an area with additional downgradient perimeter berming. The area where flowback fluids will be stored/reused must be constructed to be sufficiently impervious to contain any spilled or released material.</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>

Attachment Check List

Att Doc Num	Name
2106722	CORRESPONDENCE
2106723	PROPOSED BMPs
400391955	FORM 2A SUBMITTED
400391969	NRCS MAP UNIT DESC
400403730	LOCATION PICTURES
400403733	ACCESS ROAD MAP
400403734	HYDROLOGY MAP
400403735	LOCATION DRAWING
400403736	REFERENCE AREA MAP
400403737	REFERENCE AREA PICTURES
400403738	TOPO MAP
400403746	WASTE MANAGEMENT PLAN
400408266	OIL & GAS LEASE
400446382	SURFACE AGRMT/SURETY
400446494	WAIVERS
400446505	MULTI-WELL PLAN

Total Attach: 16 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Upon Final review the following issues were noted: This is an amending 2A that moves the surface location 30' to the NW Revised comments per operator.	8/27/2013 7:35:03 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, sediment control access road, GW baseline sampling, notification, and cuttings low moisture content COAs from operator on 08-20-13; received acknowledgement of COAs from operator on 08-23-13; changed to sensitive area due to close SW (308'); 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, sediment control access road, GW baseline sampling, notification, and cuttings low moisture content COAs.	8/20/2013 12:30:21 PM
DOW	Wildlife Concerns: This location is within greater sage-grouse Preliminary Priority Habitat (PPH) and production area Sensitive Wildlife Habitat (SWH). Additionally, this location is within 1.5 miles of two active greater sage-grouse leks (Coalmont Lek and Migan Lek). Based on these wildlife concerns, CPW recommends the following BMPs: 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. Restrict post development well site visitations to portions of the day between 9:00 a.m. and 4:00 p.m. during the lekking season (March 1 to May 15). In addition to these BMPs, CPW would like to bring to attention the use by greater sage-grouse of the riparian corridor east of this location during August, September, and October. To the extent possible, CPW recommends minimizing noise impacts and visitation to this site during these months to mitigate impacts to grouse. Approved by: Taylor Elm, 8/14/2013, 16:05	8/14/2013 5:44:25 PM
Permit	Removed surface bond as per opr. Ready to pass pending public comment 8/2/13.	7/17/2013 7:58:08 AM
Permit	Form passes completeness.	7/12/2013 10:45:54 AM
Permit	Returned to draft. Surface owner must be mineral owner if committed to an oil and gas lease. "The Mineral owner" box needs to be checked or "committed to an oil and gas lease" unchecked. Missing Multi-well Plan. No location (S-T-R) cited on the Surface Use Agreement.	4/24/2013 3:09:51 PM

Total: 6 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. Restrict post development well site visitations to portions of the day between 9:00 a.m. and 4:00 p.m. during the lekking season (March 1 to May 15).

Total: 1 comment(s)