

FORM
2A

Rev
04/01

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109



DE ET OE ES

Document Number:

2094587

Oil and Gas Location Assessment

New Location Amend Existing Location Location#: 380086

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 stand alone 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:

380086

Expiration Date:

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: 100185

Name: ENCANA OIL & GAS (USA) INC

Address: 370 17TH ST STE 1700

City: DENVER State: CO Zip: 80202-5632

3. Contact Information

Name: JEVIN CROTEAU

Phone: (720) 876-5339

Fax: (720) 876-6339

email: JEVIN.CROTEAU@ENCANA.CO
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4. Location Identification:

Name: HELEN Number: 34-23

County: BROOMFIELD

Quarter: SWSE Section: 23 Township: 1N Range: 68W Meridian: 6 Ground Elevation: 5149

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: 510 feet, from North or South section line: FSL and 1830 feet, from East or West section line: FEL

Latitude: 40.030840 Longitude: -104.967910 PDOP Reading: 0.2 Date of Measurement: 12/10/2009

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

Special Purpose Pits: Drilling Pits: 1 Wells: 2 Production Pits: Dehydrator Units:
Condensate Tanks: Water Tanks: Separators: Electric Motors: Multi-Well Pits:
Gas or Diesel Motors: Cavity Pumps: LACT Unit: Pump Jacks: Pigging Station:
Electric Generators: Gas Pipeline: 2 Oil Pipeline: Water Pipeline: Flare:
Gas Compressors: VOC Combustor: Oil Tanks: Fuel Tanks:

Other: TWO WELLS ARE BEING PROPOSED AT THIS LOCATION, THE HELEN 34-23 & HELEN 8-8-23

6. Construction:

Date planned to commence construction: 04/01/2010 Size of disturbed area during construction in acres: 3.67
Estimated date that interim reclamation will begin: 06/01/2010 Size of location after interim reclamation in acres: 1.50
Estimated post-construction ground elevation: 5149 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: _____

7. Surface Owner:

Name: BOA SORTEM MASSARO Phone: 303/736-2412
Address: 1313 CARLYLE PARK CIRCLE Fax: _____
Address: _____ Email: _____
City: HIGHLANDS State: CO Zip: 80129 Date of Rule 306 surface owner consultation: 10/21/2008
RANCH
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 20050027

8. Reclamation Financial Assurance:

Well Surety ID: 20050026 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: 904, public road: 498, above ground utilit: 483
, railroad: 3450, property line: 298

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: 66-ULM CLAY LOAM, 0-3 PERCENT SLOPES
NRCS Map Unit Name: _____
NRCS Map Unit Name: _____

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 (Bluestern, 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: 385, water well: 868, depth to ground water: 300
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:

ACCORDING TO THE COLORADO DIVISION OF WATER RESOURCE WEB SITE THE NEAREST WATER WELL IS PERMIT #235335, AT 868' AWAY AND HAS A STATIC WATER LEVEL OF 300'. THE HELEN 34-23 & 8-8-23 WELLS WILL FLOW BACK TO THE HELEN E UNIT #1 BATTERY APPROXIMATELY 1000' TO THE NORTHEAST.

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

Signed: _____ Date: _____ Email: JEVIN.CROTEAU@ENCANA.COM

Print Name: JEVIN CROTEAU Title: REGULATORY

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: _____

Attachment Check List

Att Doc Num	Name	Doc Description
2094587	FORM 2A	LF@2215739 2094587
2094600	LOCATION PICTURES	LF@2215765 2094600
2094601	LOCATION PICTURES	LF@2215766 2094601
2094602	LOCATION DRAWING	LF@2215767 2094602
2094603	HYDROLOGY MAP	LF@2215768 2094603
2094604	ACCESS ROAD MAP	LF@2215769 2094604
2094605	NRCS MAP UNIT DESC	LF@2215740 2094605
2094606	MULTI-WELL PLAN	LF@2215764 2094606

Total Attach: 8 Files