

State of Colorado
Oil and Gas Conservation Commission

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



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Document Number:

400083575

Oil and Gas Location Assessment

☐ New Location
 ☒ Amend Existing Location
 Location#: 335428

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:

335428

Expiration Date:

11/23/2013
☐ 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: DeAnne Spector

Phone: (720) 876-5826

Fax: (720) 876-6826

email: deanne.spector@encana.com

4. Location Identification:

Name: Benjamin Federal Number: 28-12B2 (K28NW)

County: GARFIELD

Quarter: NESW Section: 28 Township: 6S Range: 93W Meridian: 6 Ground Elevation: 5953

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: 1716 feet FSL, from North or South section line, and 2536 feet FWL, from East or West section line.

Latitude: 39.494640 Longitude: -107.780438 PDOP Reading: 2.8 Date of Measurement: 06/11/2010

Instrument Operator's Name: Stacy Stewart

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

Special Purpose Pits: <input type="text" value="1"/>	Drilling Pits: <input type="text" value="0"/>	Wells: <input type="text" value="23"/>	Production Pits: <input type="text" value="0"/>	Dehydrator Units: <input type="text" value="0"/>
Condensate Tanks: <input type="text" value="0"/>	Water Tanks: <input type="text" value="0"/>	Separators: <input type="text" value="23"/>	Electric Motors: <input type="text" value="0"/>	Multi-Well Pits: <input type="text" value="0"/>
Gas or Diesel Motors: <input type="text" value="0"/>	Cavity Pumps: <input type="text" value="0"/>	LACT Unit: <input type="text" value="0"/>	Pump Jacks: <input type="text" value="0"/>	Pigging Station: <input type="text" value="0"/>
Electric Generators: <input type="text" value="0"/>	Gas Pipeline: <input type="text" value="1"/>	Oil Pipeline: <input type="text" value="0"/>	Water Pipeline: <input type="text" value="0"/>	Flare: <input type="text" value="0"/>
Gas Compressors: <input type="text" value="0"/>	VOC Combustor: <input type="text" value="0"/>	Oil Tanks: <input type="text" value="0"/>	Fuel Tanks: <input type="text" value="0"/>	

Other: An area will be set aside to mix the cuttings; the special purpose pit is for the flare pit, a followup Form 15 will be submitted after construction.

6. Construction:

Date planned to commence construction: 11/05/2010 Size of disturbed area during construction in acres: 7.01
Estimated date that interim reclamation will begin: 11/07/2011 Size of location after interim reclamation in acres: 2.56
Estimated post-construction ground elevation: 5952 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: _____ Phone: _____
Address: _____ Fax: _____
Address: _____ Email: _____
City: _____ State: _____ Zip: _____ Date of Rule 306 surface owner consultation: 09/07/2010
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: 20100017 ☐ 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: 690, public road: 550, above ground utilit: 690
, railroad: 10560, property line: 392

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: 67 Torriorthents-Rock outcrop complex

NRCS Map Unit Name: 56 Potts loam, 6 to 12 percent slopes

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: Mahogany, Oak, Sage, Serviceberry, Chokecherry

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: 319, water well: 327, depth to ground water: 172

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 Supply 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 reference area for reclamation will be next to the pad on the West side. The reference area photos have been requested from the field.

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

Signed: _____ Date: 09/07/2010 Email: deanne.spector@encana.com

Print Name: DeAnne Spector 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.

Daniel S. Neslin

COGCC Approved: _____

Director of COGCC

Date: 11/24/2010

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.

Location is in a sensitive area because of proximity to a domestic water well and shallow groundwater; therefore production pits (if constructed) must be lined.

Notify COGCC Oil and Gas Location Assessment (OGLA) Specialist for Western Colorado (Dave Kubeczko; email dave.kubeczko@state.co.us; phone 970-309-2514) 48 hours prior to start of construction.

Location is in a sensitive area because of proximity to a domestic water well and shallow groundwater; therefore either a lined drilling pit or closed loop system must be implemented.

The moisture content of any drill 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, the drill cuttings must also meet the applicable standards of table 910-1.

Based on discussions at the EnCana/BLM Onsite (that took place on 10-14-10), the well pad configuration and possible size will likely change, as well as locations of tanks, separators, pipelines, etc.; therefore, operator must submit revised Location Drawing and Construction Layout Drawings via a Form 4 Sundry Notice to Dave Kubeczko for approval prior to starting construction of the well pad.

Location is in a sensitive area because of close proximity to surface water, therefore, operator must ensure 110 percent secondary containment for any volume of fluids contained at well site during drilling and completion operations.

Operator must implement best management practices to contain any unintentional release of fluids.

No portion of any pit that will be used to hold liquids shall be constructed on fill material, unless the pit and fill slope are designed and certified by a professional engineer, subject to review and approval by the director prior to construction of the pit. The construction and lining of the pit shall be supervised by a professional engineer or their agent. The entire base of the pit must be in cut.

Attachment Check List

Att Doc Num	Name
400083575	FORM 2A SUBMITTED
400083876	LOCATION PICTURES
400083877	CONST. LAYOUT DRAWINGS
400083878	HYDROLOGY MAP
400083879	MULTI-WELL PLAN
400083880	TOPO MAP
400083881	ACCESS ROAD MAP
400083882	NRCS MAP UNIT DESC
400083884	PROPOSED BMPs
400083885	LOCATION DRAWING
400090664	30 DAY NOTICE LETTER
400090669	OTHER
400090853	WAIVERS

Total Attach: 13 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
DOW	The BMPs as submitted by the operator are applicable to the site. by Michael Warren on Monday, October 18, 2010 at 8:50 A.M.	10/18/2010 8:47:13 AM
OGLA	Placed Form 2A Permit ON HOLD on 10-14-10 after EnCana/BLM Onsite took place on 10-14-10. Results of the onsite indicates that the well pad configuration and possible size will likely change, as well as locations of tanks, separators, pipelines, etc. Additional COAs will likely be placed on this permit after BLM meets with landowner.	10/14/2010 1:13:08 PM
Permit	Changed number of wells on pad from 25 to 23 at request of DeAnne Spector. 9/24/10	9/24/2010 8:17:52 AM
Permit	Requested clarification as to the number of wells on pad, section III states 25 but the multi-well plan shows only 23. Emailed DeAnne 9/14/10 with statement that the two abandoned locations should not be counted.	9/24/2010 7:55:23 AM
OGLA	Initiated/Completed OGLA Form 2A review on 09-20-10 by Dave Kubeczko; requested clarifications and acknowledgement of close SW fluid containment, spill/release BMPs, close domestic well lined pits/closed loop, cuttings low moisture content, no pit in fill COAs from operator on 09-20-10; received clarifications and acknowledgement of COAs from operator on 09-?-10; reference area photos will be submitted within 12 months; passed by CDOW on (TBD: 10-20-10), with operator submitted (with permit application) BMPs acceptable; passed OGLA Form 2A review on (TBD: 10-20-10) by Dave Kubeczko; fluid containment, spill/release BMPs, lined pits/closed loop, cuttings low moisture content, no pit in fill COAs.	9/20/2010 9:38:51 AM
Permit	returned without plugging bond. ...called opr who says submitted but it didn't stick; possibly related to not having latest silverlight? Corrected and passed completeness check. I also asked opr to complete forms related in future - only ones added here are the ones that came with this 2A - there are others	9/10/2010 8:03:26 AM
Permit	per SF, opr changed from fee mineral to federal mineral and thus don't want a plugging bond if ALL WERE FEE/FED SURF/MINERAL. However that is NOT true. AT the surface location IT IS fee/fee surface/mineral directly below it, as well as has other directionals that end up in fee mineral - so it needs plugging bond. Opr was called and left a message and was emailed. Later: returned to draft for opr to deal with; we spoke on phone and I explained - opr to resubmit. Once returned with plugging bond it's ok to pass completeness checking	9/9/2010 11:11:51 AM
Permit	Needs Plugging Bond. Back to draft	9/7/2010 4:29:49 PM

Total: 8 comment(s)

BMP

<u>Type</u>	<u>Comment</u>

Total: 0 comment(s)