


<b>FORM</b> <b>2A</b> Rev 04/01	<b>State of Colorado</b> <b>Oil and Gas Conservation Commission</b> 1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">DE</td> <td style="width: 25%;">ET</td> <td style="width: 25%;">OE</td> <td style="width: 25%;">ES</td> </tr> </table> <p style="text-align: center;">Document Number: <b>400102468</b></p>	DE	ET	OE	ES																					
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<b>Oil and Gas Location Assessment</b>			<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">         Location ID:  <b>334071</b> </div> <div style="border: 1px solid black; padding: 5px;">         Expiration Date:  <b>12/11/2013</b> </div>																									
<input type="checkbox"/> New Location <input checked="" type="checkbox"/> Amend Existing Location      Location#: <u>67350</u>																												
<p>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 <a href="http://colorado.gov/cogcc/">http://colorado.gov/cogcc/</a> for all accompanying information pertinent to this Oil and Gas Location Assessment.</p>																												
<input checked="" type="checkbox"/> This location assessment is included as part of a permit application.																												
<b>1. CONSULTATION</b> <input type="checkbox"/> This location is included in a Comprehensive Drilling Plan. CDP # _____ <input checked="" type="checkbox"/> This location is in a sensitive wildlife habitat area. <input type="checkbox"/> This location is in a wildlife restricted surface occupancy area. <input type="checkbox"/> This location includes a Rule 306.d.(1)A.ii. variance request.																												
<b>2. Operator</b> Operator Number: <u>100185</u> Name: <u>ENCANA OIL &amp; GAS (USA) INC</u> Address: <u>370 17TH ST STE 1700</u> City: <u>DENVER</u> State: <u>CO</u> Zip: <u>80202-5632</u>		<b>3. Contact Information</b> Name: <u>DeAnne Spector</u> Phone: <u>(720) 876-5826</u> Fax: <u>(720) 876-6826</u> email: <u>deanne.spector@encana.com</u>																										
<b>4. Location Identification:</b> Name: <u>Federal</u> Number: <u>28-13BB (PL28)</u> County: <u>GARFIELD</u> QuarterQuarter: <u>NWSW</u> Section: <u>28</u> Township: <u>7S</u> Range: <u>95W</u> Meridian: <u>6</u> Ground Elevation: <u>7163</u> 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: <u>2076</u> feet <u>FSL</u> , from North or South section line, and <u>742</u> feet <u>FWL</u> , from East or West section line. Latitude: <u>39.406840</u> Longitude: <u>-108.008980</u> PDOP Reading: <u>0.0</u> Date of Measurement: <u>11/06/2009</u> Instrument Operator's Name: <u>Ted Taggart</u>																												
<b>5. Facilities (Indicate the number of each type of oil and gas facility planned on location):</b> <table style="width: 100%; border-collapse: collapse;"> <tr> <td>Special Purpose Pits: <input type="text" value="1"/></td> <td>Drilling Pits: <input type="text" value="0"/></td> <td>Wells: <input type="text" value="12"/></td> <td>Production Pits: <input type="text" value="0"/></td> <td>Dehydrator Units: <input type="text" value="0"/></td> </tr> <tr> <td>Condensate Tanks: <input type="text" value="4"/></td> <td>Water Tanks: <input type="text" value="0"/></td> <td>Separators: <input type="text" value="12"/></td> <td>Electric Motors: <input type="text" value="0"/></td> <td>Multi-Well Pits: <input type="text" value="0"/></td> </tr> <tr> <td>Gas or Diesel Motors: <input type="text" value="0"/></td> <td>Cavity Pumps: <input type="text" value="0"/></td> <td>LACT Unit: <input type="text" value="0"/></td> <td>Pump Jacks: <input type="text" value="0"/></td> <td>Pigging Station: <input type="text" value="0"/></td> </tr> <tr> <td>Electric Generators: <input type="text" value="0"/></td> <td>Gas Pipeline: <input type="text" value="0"/></td> <td>Oil Pipeline: <input type="text" value="0"/></td> <td>Water Pipeline: <input type="text" value="0"/></td> <td>Flare: <input type="text" value="0"/></td> </tr> <tr> <td>Gas Compressors: <input type="text" value="0"/></td> <td>VOC Combustor: <input type="text" value="0"/></td> <td>Oil Tanks: <input type="text" value="0"/></td> <td>Fuel Tanks: <input type="text" value="0"/></td> <td></td> </tr> </table> <p>Other: The special purpose pit will be used to flare. A Form 15 will be submitted post-construction. A mixing area will be used for the cuttings.</p>				Special Purpose Pits: <input type="text" value="1"/>	Drilling Pits: <input type="text" value="0"/>	Wells: <input type="text" value="12"/>	Production Pits: <input type="text" value="0"/>	Dehydrator Units: <input type="text" value="0"/>	Condensate Tanks: <input type="text" value="4"/>	Water Tanks: <input type="text" value="0"/>	Separators: <input type="text" value="12"/>	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="0"/>	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"/>	
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6. Construction:

Date planned to commence construction: 04/01/2011 Size of disturbed area during construction in acres: 2.89  
Estimated date that interim reclamation will begin: 05/01/2012 Size of location after interim reclamation in acres: 1.50  
Estimated post-construction ground elevation: 7262 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: Bureau of Land Management Phone: 970-876-9055  
Address: 2300 River Frontage Rd Fax: \_\_\_\_\_  
Address: \_\_\_\_\_ Email: \_\_\_\_\_  
City: Silt State: CO Zip: 81652 Date of Rule 306 surface owner consultation: \_\_\_\_\_  
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: \_\_\_\_\_ ☐ 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: 9840, public road: 8780, above ground utilit: 5700  
, railroad: 19000, property line: 1884

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. Torriorthents-Camborthids-Rock outcrop complex, steep

NRCS Map Unit Name: 67. Torriorthents-Rock outcrop complex, steep

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: 10/27/2010

List individual species: Mullin Hounds Tongue, Musk Thistle

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: 850, water well: 4100, depth to ground water: 118

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 will be next to the pad on the Northeast side.

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

Signed: \_\_\_\_\_ Date: 11/01/2010 Email: deanne.spector@encana.com

Print Name: DeAnne Spector Title: Regulatory Analyst

**IMPORTANT: SOME DATA FIELDS HAVE BEEN MODIFIED.**

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: \_\_\_\_\_

*David S. Neslin*

Director of COGCC

Date: 12/12/2010

**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.**

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.

Operator must implement best management practices to contain any unintentional release of fluids, including any fluids conveyed by temporary surface pipelines.

Operator must ensure 110 percent 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 sufficiently protective of nearby surface water.

**Attachment Check List**

Att Doc Num	Name
2033501	CORRESPONDENCE
400102468	FORM 2A APPROVED
400102572	LOCATION PICTURES
400102573	HYDROLOGY MAP
400102577	NRCS MAP UNIT DESC
400102578	NRCS MAP UNIT DESC
400102579	CONST. LAYOUT DRAWINGS
400102580	TOPO MAP
400102581	MULTI-WELL PLAN
400102582	PROPOSED BMPs
400102613	OTHER
400105448	ACCESS ROAD MAP
400115759	FORM 2A SUBMITTED

Total Attach: 13 Files

**General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
OGLA	Initiated/Completed OGLA Form 2A review on 11-11-10 by Dave Kubeczko; requested clarifications and acknowledgement of Fluid containment, spill/release BMPs and cuttings low moisture content COAs from operator on 11-11-10; received clarifications and acknowledgement of COAs from operator on 11-11-10; passed by CDOW on 11-08-10 with operator submitted BMPs (with permit application) and BLM stipulations and COAs acceptable; passed OGLA Form 2A review on 11-23-10 by Dave Kubeczko; fluid containment, spill/release BMPs and cuttings low moisture content COAs.	11/11/2010 4:06:16 PM
DOW	The CDOW has reviewed the applicant's BMPs/COAs for this permit.CDOW affirms that the BMPs as submitted by the operator and the lease stipulations and conditions of approval assigned to this permit by the BLM suffice to address wildlife habitat and mitigation concerns.  by Michael Warren on Monday, November 8, 2010 at 7: 20 AM	11/8/2010 7:20:21 AM

Total: 2 comment(s)

**BMP**

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

Total: 0 comment(s)