

<p><b>FORM 2A</b> Rev 04/01</p>	<p>State of Colorado  <b>Oil and Gas Conservation Commission</b>                  1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109</p>		<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>Document Number: 400165388</p>	DE	ET	OE	ES																					
DE	ET	OE	ES																									
<p><b>Oil and Gas Location Assessment</b></p> <p><input type="checkbox"/> New Location      <input checked="" type="checkbox"/> Amend Existing Location      Location#: <u>334468</u></p>			<p>Location ID: <b>334468</b></p> <p>Expiration Date: <b>06/21/2014</b></p>																									
<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>																												
<p><input checked="" type="checkbox"/> This location assessment is included as part of a permit application.</p>																												
<p><b>1. CONSULTATION</b></p> <p><input type="checkbox"/> This location is included in a Comprehensive Drilling Plan. CDP # _____</p> <p><input checked="" type="checkbox"/> This location is in a sensitive wildlife habitat area.</p> <p><input type="checkbox"/> This location is in a wildlife restricted surface occupancy area.</p> <p><input type="checkbox"/> This location includes a Rule 306.d.(1)A.ii. variance request.</p>																												
<p><b>2. Operator</b></p> <p>Operator Number: <u>100185</u></p> <p>Name: <u>ENCANA OIL &amp; GAS (USA) INC</u></p> <p>Address: <u>370 17TH ST STE 1700</u></p> <p>City: <u>DENVER</u> State: <u>CO</u> Zip: <u>80202-5632</u></p>		<p><b>3. Contact Information</b></p> <p>Name: <u>Miracle Pfister</u></p> <p>Phone: <u>(720) 876-3761</u></p> <p>Fax: <u>(720) 876- 4861</u></p> <p>email: <u>miracle.pfister@encana.com</u></p>																										
<p><b>4. Location Identification:</b></p> <p>Name: <u>Federal</u> Number: <u>35-16H (ON1)</u></p> <p>County: <u>GARFIELD</u></p> <p>QuarterQuarter: <u>SESW</u> Section: <u>1</u> Township: <u>8S</u> Range: <u>97W</u> Meridian: <u>6</u> Ground Elevation: <u>5393</u></p> <p>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.</p> <p>Footage at surface: <u>362</u> feet <u>FSL</u>, from North or South section line, and <u>2080</u> feet <u>FWL</u>, from East or West section line.</p> <p>Latitude: <u>39.382406</u> Longitude: <u>-108.170389</u> PDOP Reading: <u>2.0</u> Date of Measurement: <u>09/03/2010</u></p> <p>Instrument Operator's Name: <u>C.D. SLAUGH</u></p>																												
<p><b>5. Facilities (Indicate the number of each type of oil and gas facility planned on location):</b></p> <table style="width:100%; border-collapse: collapse;"> <tr> <td>Special Purpose Pits: <input type="text" value="0"/></td> <td>Drilling Pits: <input type="text" value="0"/></td> <td>Wells: <input type="text" value="16"/></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="6"/></td> <td>Water Tanks: <input type="text" value="0"/></td> <td>Separators: <input type="text" value="20"/></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="1"/></td> <td>Oil Pipeline: <input type="text" value="0"/></td> <td>Water Pipeline: <input type="text" value="1"/></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: _____</p>				Special Purpose Pits: <input type="text" value="0"/>	Drilling Pits: <input type="text" value="0"/>	Wells: <input type="text" value="16"/>	Production Pits: <input type="text" value="0"/>	Dehydrator Units: <input type="text" value="0"/>	Condensate Tanks: <input type="text" value="6"/>	Water Tanks: <input type="text" value="0"/>	Separators: <input type="text" value="20"/>	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="1"/>	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"/>	
Special Purpose Pits: <input type="text" value="0"/>	Drilling Pits: <input type="text" value="0"/>	Wells: <input type="text" value="16"/>	Production Pits: <input type="text" value="0"/>	Dehydrator Units: <input type="text" value="0"/>																								
Condensate Tanks: <input type="text" value="6"/>	Water Tanks: <input type="text" value="0"/>	Separators: <input type="text" value="20"/>	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="1"/>	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"/>																									

6. Construction:

Date planned to commence construction: 06/15/2011 Size of disturbed area during construction in acres: 6.99  
Estimated date that interim reclamation will begin: 04/30/2013 Size of location after interim reclamation in acres: 2.46  
Estimated post-construction ground elevation: 5391 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: \_\_\_\_\_  
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 Mgmt. Surety ID: \_\_\_\_\_

9. Cultural:

Is the location in a high density area (Rule 603.b.): Yes  No   
Distance, in feet, to nearest building: 4240, public road: 3368, above ground utilit: 4240  
, railroad: 5280, property line: 376

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.

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

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: #12 Bunkwater very fine sandy loam, 1 to 8 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 (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: 385, water well: 2850, depth to ground water: 57

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:**

Depth to ground water is from the waterwell 2850 away in section 12. The reference area is adjacent to the pad to the South. No reference area map is required or attached. Reference area photos will be taken this summer during growing season and submitted to the COGCC within 6 months.

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

Signed: \_\_\_\_\_ Date: 05/27/2011 Email: miracle.pfister@encana.com

Print Name: MIRACLE PFISTER 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. Nesline*

Director of COGCC

Date: 6/22/2011

**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.**

**GENERAL SITE COAs:**

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.

A closed loop system (which operator has been indicated on the Form 2A) must be implemented during drilling.

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. If fluids are conveyed via pipeline, operator must implement best management practices to contain any unintentional release of drilling, completion, or produced fluids.

Flowback and stimulation fluids must be sent to tanks to allow the sand to settle out before the fluids can be placed into any pipeline or pit located on the well pad. The flowback and stimulation fluid tanks 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.

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.

Berms or other containment devices shall be constructed to be sufficiently impervious to contain any spilled or released material around crude oil, condensate, and produced water storage tanks.

**Attachment Check List**

Att Doc Num	Name
20338470	OTHER
20338471	CORRESPONDENCE
400165388	FORM 2A SUBMITTED
400169707	OTHER
400169708	LOCATION DRAWING
400169710	NRCS MAP UNIT DESC
400169711	LOCATION PICTURES
400169714	MULTI-WELL PLAN
400169715	HYDROLOGY MAP
400169718	CONST. LAYOUT DRAWINGS
400169719	ACCESS ROAD MAP

Total Attach: 11 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 05-31-11 by Dave Kubeczko; requested acknowledgement of fluid containment, spill/release BMPs, flowback to tanks, tank berming, closed loop, and cuttings low moisture content COAs from operator on 05-31-11; received clarifications and acknowledgement of COAs from operator on 05-31-11; no CDOW; passed OGLA Form 2A review on 06-20-11 by Dave Kubeczko; fluid containment, spill/release BMPs, flowback to tanks, tank berming, closed loop, and cuttings low moisture content COAs.	5/31/2011 2:03:39 PM
Permit	Regeusted email of multi-well listing (non-critical item) to attach, because original attachment multi well plan doe not open. dhs	5/31/2011 10:53:04 AM
Permit	Operator requests approval without notice, per Rule 303.l.(1) to avoid lease expiration.	5/27/2011 1:01:54 PM

Total: 3 comment(s)

**BMP**

<b><u>Type</u></b>	<b><u>Comment</u></b>
Interim Reclamation	POST CONSTRUCTION/RECLAMATION Maintenance Revegetation Monitoring BMP maintenance & monitoring Weed Management
Pre-Construction	PRECONSTRUCTION Wattles, Silt Fence, Vegetation Buffers, Slash, Topsoil Windrows (diversions & ROP's), Scheduling, Phased Construction
Wildlife	Wildlife BMPs Minimize the number, length and footprint of oil & gas development roads Use existing routes where possible Combine utility infrastructure planning (gas, electric & water) when possible with roadway planning to avoid separate utility corridors Coordinate Employee transport when possible  Reduce visits to well-sites through remote monitoring (i.e. SCADA) and the use of multi-function contractors. Maximize use of state-of-the-art drilling technology (e.g., high efficiency rigs, coiled-tubing unit rigs, closed-loop or pitless drilling, etc.) to minimize disturbance.  Reclaim mule deer and elk habitats with native shrubs, grasses, and forbs appropriate to the ecological site disturbed.
Construction	CONSTRUCTION/RECLAMATION (Not all are used all the time) Terminal Containment, Diversions, Run-On Protection, Tracking, Benching, Terracing, ECM (Erosion Control Mulch), ECB (Erosion Control Blanket), Check Dams, Seeding, Mulching, Water Bars, Stabilized Unpaved Surfaces (Gravel), Stormwater & Snow Storage Containment, Scheduling, Phased Construction, Temporary Flumes, Culverts with inlet & outlet protection, Rip Rap, TRM (Turf Reinforcement Mats), Maintenance, Scheduling, Phased Construction, Fueling BMP's, Waste Management BMP's, Materials Handling BMP's

Total: 4 comment(s)