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

Oil and Gas Location Assessment

Document Number: 400230807

Date Received: 01/19/2012

☐ New Location ☒ Amend Existing Location Location#: 335800

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: **335800**

Expiration Date: **03/07/2015**

☐ 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: Heather Mitchell

Phone: (720) 876-3070

Fax: (720) 876-4070

email: heather.mitchell@encana.com

4. Location Identification:

Name: N. Parachute Number: WF A15 596

County: GARFIELD

QuarterQuarter: NENE Section: 15 Township: 5S Range: 96W Meridian: 6 Ground Elevation: 6512

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: 265 feet FNL , from North or South section line, and 827 feet FEL , from East or West section line.

Latitude: 39.621536 Longitude: -108.149049 PDOP Reading: 1.2 Date of Measurement: 07/21/2011

Instrument Operator's Name: Universal Pegasus

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

Special Purpose Pits:		Drilling Pits:		Wells:	8	Production Pits:		Dehydrator Units:	
Condensate Tanks:		Water Tanks:		Separators:	1	Electric Motors:		Multi-Well Pits:	1
Gas or Diesel Motors:		Cavity Pumps:		LACT Unit:		Pump Jacks:		Pigging Station:	
Electric Generators:		Gas Pipeline:	2	Oil Pipeline		Water Pipeline:	1	Flare:	
Gas Compressors:		VOC Combustor:		Oil Tanks:		Fuel Tanks:	

Other: 1 meter house, 1 chemical tan

6. Construction:

Date planned to commence construction: 04/12/2005 Size of disturbed area during construction in acres: 4.00

Estimated date that interim reclamation will begin: 04/15/2013 Size of location after interim reclamation in acres: 2.50

Estimated post-construction ground elevation: 6512 Will a closed loop system be used for drilling fluids: Yes [X]

Will salt sections be encountered during drilling: Yes [ ] No [X] Is H2S anticipated? Yes [ ] No [X]

Will salt (>15,000 ppm TDS Cl) or oil based muds be used: Yes [ ] No [X]

Mud disposal: Offsite [ ] Onsite [X] Method: Land Farming [ ] Land Spreading [ ] Disposal Facility [ ]

Other: Recycle and bury

7. Surface Owner:

Name: _____ Phone: _____

Address: _____ Fax: _____

Address: _____ Email: _____

City: _____ State: _____ Zip: _____ Date of Rule 306 surface owner consultation: _____

Surface Owner: [X] Fee [ ] State [ ] Federal [ ] Indian

Mineral Owner: [X] Fee [ ] State [ ] Federal [ ] Indian

The surface owner is: [X] the mineral owner [ ] committed to an oil and gas lease

[ ] is the executer of the oil and gas lease [X] the applicant

The right to construct the location is granted by: [ ] oil and gas lease [ ] Surface Use Agreement [ ] Right of Way

[X] applicant is owner

Surface damage assurance if no agreement is in place: [ ] $2000 [ ] $5000 [ ] Blanket Surety ID _____

8. Reclamation Financial Assurance:

[X] 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 [X]

Distance, in feet, to nearest building: 15586 , public road: 121 , above ground utilit: 66327

, railroad: 55751 , property line: 488

10. Current Land Use (Check all that apply):

Crop Land: [ ] Irrigated [ ] Dry land [ ] Improved Pasture [ ] Hay Meadow [ ] CRP

Non-Crop Land: [X] 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: [X] 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: NRCS #62 Rock outcrop-Torriorthents complex

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: 11/30/2011

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: 177 , water well: 1204 , depth to ground water: 30

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:

This pad will be reclaimed to the vegetation to the south. Encana owns the surface and the minerals. This pad is already built. Encana is not adding any wells, but will be reworking an existing pit on location. Existing pit #s are 425199 and 425200. Pit permit will be filed via email to the location assessment group.

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

Signed: Date: 01/19/2012 Email: heather.mitchell@encana.com

Print Name: Heather Mitchell 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.

COGCC Approved: **Director of COGCC** Date: 3/8/2012

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.

SITE SPECIFIC COAs:

Prior to multi-well pit construction, a Form 27 (Remediation Workplan/Closure Report) must be submitted to the COGCC detailing the closure of the original drilling pits (#425199 and #425200) at this well pad location. This form should include the dates of closure, where the fluids were disposed of, and where any impacted soil was disposed of. In addition, analytical results from soil samples collected below the pit prior to the construction of the new multi-well pit, should also be included.

Notify COGCC Oil and Gas Location Assessment (OGLA) Specialist for Western Colorado (Dave Kubeczko; email dave.kubeczko@state.co.us) and the COGCC Field Inspection Supervisor for Northwest Colorado (Shaun Kellerby; email shaun.kellerby@state.co.us) 48 hours prior to start of construction of the pit.

Surface water samples from West Fork (one upstream and one downstream) shall be collected by the operator prior to pit use and every 12 months to evaluate potential impacts from pit operations. At a minimum, the surface water samples will be analyze for the following parameters: major cations/anions (chloride, fluoride, sulfate, sodium); total dissolved solids (TDS); and BTEX/DRO.

After installation of the uppermost liner and prior to operating the pit, the synthetic liner(s) shall be tested by filling the pit with at least 4 feet of fresh water, measured from the base of the pit (not to exceed the 2-foot freeboard requirement). The operator shall monitor the pit for leaks for a period of 72 hours prior to draining the pit and commencing operations. Operator shall notify the COGCC Oil and Gas Location Assessment (OGLA) Specialist for Western Colorado (Dave Kubeczko; email dave.kubeczko@state.co.us) 48 hours prior to start of the hydrotest. Hydrotest monitoring results must be maintained by the operator for the life of the pit and provided to COGCC prior to using the pit.

Operator must ensure 110 percent secondary containment for any volume of fluids contained at the water handling facility site during natural gas development activities and 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.

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

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.

The production pit must be double-lined. The pit will also require a leak detection system (Rule 904.e).

Operator must submit a professional engineer (PE) approved/stamped as-built drawing (plan view and cross-sections) of the production pit within 14 calendar days of construction.

The production pit must be fenced and netted. The operator must maintain the fencing and netting until the pit is closed in accordance with Rule 905. Closure of Pits, and Buried or Partially Buried Produced Water Vessels.

Operator shall pressure test pipelines in accordance with Rule 1101.e.(1) prior to putting into initial service any temporary surface pipelines or configuration of the permanent pipeline network.

Submit additional disposal facilities (wells, pits, landfills, etc.) for pit contents, if different than what was provided on the Form 15 Pit Permit, to COGCC via a Form 4 Sundry prior to disposal.

Attachment Check List

Att Doc Num	Name
2034141	CORRESPONDENCE
2034165	OTHER
400230807	FORM 2A SUBMITTED
400243042	NRCS MAP UNIT DESC
400243044	ACCESS ROAD MAP
400243047	CONST. LAYOUT DRAWINGS
400243071	LOCATION DRAWING
400243080	MULTI-WELL PLAN
400243081	HYDROLOGY MAP
400243085	REFERENCE AREA PICTURES
400243087	REFERENCE AREA PICTURES
400243089	REFERENCE AREA PICTURES
400243091	REFERENCE AREA PICTURES

Total Attach: 13 Files

General Comments

User Group	Comment	Comment Date
Permit	changed date of interim reclamation to 4/15/2013 per oper.'s instructions. CPW & LGD passed w/ oper. BMP's. Public comments waived. Form 15 approved. Final Comprehensive Review Status--passed.	3/8/2012 1:40:02 PM
DOW	The CPW finds that Encanas plans to re-work a reclamation pit on their existing well site WF A15 596, are acceptable.This site has no RSOs, and is inside a Mule Deer Critical Winter Range SWH.The site falls within Encanas existing Wildlife Mitigation Plan for this region, and their existing BMPs are sufficient to address CPW Wildlife related concerns.	2/15/2012 4:29:55 PM
OGLA	Form 2A has been placed "ON HOLD" by Dave Kubeczko until the Form 15 has been submitted and approved. The same COAs on this Form 2A will also be placed on the Form 15. Additional COAs may also be placed on the Form 15 depending on the attachments submitted with the pit permit.	1/27/2012 9:51:27 AM
OGLA	Initiated/Completed OGLA Form 2A review on 01-27-12 by Dave Kubeczko; requested acknowledgement of fluid containment, spill/release BMPs, Form 27 pit closure, surface water sampling, double-lined pit, no pit in fill, pit contents disposal options, fencing/netting of pit, as-builts, hydrotesting, and pipeline testing COAs from operator on 01-27-12; same and/or additional COAs will be placed on the Form 15 permit; passed Form 15 Permit on 03-07-12 by Dave Kubeczko; received acknowledgement from operator of 01-30-12; passed by CPW on 02-15-12 with BMPs submitted by operator (with permit application) acceptable; passed OGLA Form 2A review on 03-07-12 by Dave Kubeczko; fluid containment, spill/release BMPs, Form 27 pit closure, surface water sampling, double-lined pit, no pit in fill, pit contents disposal options, fencing/netting of pit, as-builts, hydrotesting, and pipeline testing COAs.	1/27/2012 9:24:12 AM
LGD	Passed	1/25/2012 2:53:07 PM
Permit	ready to approve in permitting	1/20/2012 3:56:01 PM

Total: 6 comment(s)

BMP

Type	Comment
Wildlife	• Prohibit Encana employees and contractors from carrying projectile weapons. Except during company organized events. • Prohibit pets on property. • Strategically apply fugitive dust control measures, including enforcing established speed limits on Encana private roads, to reduce fugitive dust and coating of vegetation and deposition in water sources.
Construction	• Use solar panels as an alternative energy source for on-location production equipment, where appropriate, economically and technically feasible. • Use multiple gathering lines placed in a single trench to minimize disturbance and construction, where appropriate, economically and technically feasible. • Install trench plugs (sloped to allow wildlife or livestock to exit the trench should they enter) at known wildlife or livestock trails to allow safe crossing on long spans of open trench, where appropriate, economically and technically feasible. • Maintain a minimum of five feet of soil cover between the pipeline and the lowest point of the drainage or water body channel.

Total: 2 comment(s)