

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



Table with columns DE, ET, OE, ES

Document Number: 400136456

Oil and Gas Location Assessment

[X] New Location [ ] Amend Existing Location Location#: \_\_\_\_\_

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...

Location ID: 422420 Expiration Date: 03/30/2014

[X] This location assessment is included as part of a permit application.

1. CONSULTATION

- [ ] This location is included in a Comprehensive Drilling Plan. CDP # \_\_\_\_\_
[X] 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: 10232 Name: LARAMIE ENERGY II, LLC Address: 1512 LARIMER ST STE 1000 City: DENVER State: CO Zip: 80202

3. Contact Information

Name: Wayne P Bankert Phone: (970) 683-5419 Fax: (303) 339-4399 email: wbankert@laramie-energy.com

4. Location Identification:

Name: Hawxhurst Number: 17-04 Pad County: MESA Quarter: NWNW Section: 17 Township: 9S Range: 94W Meridian: 6 Ground Elevation: 6787
Footage at surface: 1279 feet FNL, from North or South section line, and 386 feet FWL, from East or West section line.
Latitude: 39.280580 Longitude: -107.913560 PDOP Reading: 2.3 Date of Measurement: 01/12/2011
Instrument Operator's Name: David Murrey

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

Special Purpose Pits: [ ] Drilling Pits: [ ] Wells: [21] Production Pits: [ ] Dehydrator Units: [ ]
Condensate Tanks: [11] Water Tanks: [11] Separators: [6] Electric Motors: [ ] Multi-Well Pits: [ ]
Gas or Diesel Motors: [ ] Cavity Pumps: [ ] LACT Unit: [ ] Pump Jacks: [ ] Pigging Station: [ ]
Electric Generators: [ ] Gas Pipeline: [1] Oil Pipeline: [ ] Water Pipeline: [1] Flare: [ ]
Gas Compressors: [ ] VOC Combustor: [1] Oil Tanks: [ ] Fuel Tanks: [ ]

Other: 6-multipack separators. Oil and Water in common tanks

6. Construction:

Date planned to commence construction: 05/01/2011 Size of disturbed area during construction in acres: 5.30  
Estimated date that interim reclamation will begin: 05/01/2014 Size of location after interim reclamation in acres: 2.00  
Estimated post-construction ground elevation: 6787 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: 08/10/2010  
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: 20070074  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: 2850, public road: 3065, above ground utilit: 3065  
, railroad: 68896, property line: 386

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: Map Unit 37: Fughes Clay Loam 2 to 6 % 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: 85, water well: 3400, depth to ground water: 12

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:**

Ground Water Depth based on elevation of Hawxhurst creek to west. Irrigation ditches to be re-routed around pad to facilitate continued irrigation of fields.

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

Signed: \_\_\_\_\_ Date: 03/07/2011 Email: wbankert@laramie-energy.com

Print Name: Wayne P. Bankert Title: Snr. Reg. & Env. Coord.

**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: 3/31/2011

**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.**

Operator timing on application to change well spacing has been requested. Present 160 acre spacing units preclude 21 well drilling package.

Initiated/Completed OGLA Form 2A review on 03-28-11 by Dave Kubeczko; requested acknowledgement of fluid containment, spill/release BMPs, lined pits/closed loop, flowback to tanks, tank berming, sediment control access and pad, and cuttings low moisture content COAs from operator on 03-28-11; received acknowledgement of COAs from operator on 03-?-10; passed by CDOW on 03-08-11 with operator submitted BMPs (with permit application) and WMP acceptable; passed OGLA Form 2A review on 03-29-11 by Dave Kubeczko; fluid containment, spill/release BMPs, lined pits/closed loop, flowback to tanks, tank berming, sediment control access and pad, and cuttings low moisture content COAs.

**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 pipelines.

A closed loop system (as indicated by operator on the Form 2A) must be implemented, otherwise, Any pit constructed to hold fluids (reserve pit, production pit, frac pit; except for flare pit, if built) must be lined.

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 (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.

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 (per Rule 604.a.(4)).

Berms or other containment devices shall be constructed in compliance with Rule 604.a.(4) around crude oil, condensate, and produced water storage tanks.

The location is in an area of high run off/run-on potential (steep grade to the west) and underlain by fine grained loams; therefore the pad shall be constructed to prevent any stormwater run-on and/or stormwater runoff. Standard stormwater BMPs must be implemented at this location to insure compliance with CDPHE and COGCC requirements and to prevent any stormwater run-on and /or stormwater runoff.

The access road will be constructed as to not allow any sediment to migrate from the access road to nearby surface water or any drainages leading to surface water.

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.

**Attachment Check List**

Att Doc Num	Name
2033672	CORRESPONDENCE
400136456	FORM 2A SUBMITTED
400140066	LOCATION PICTURES
400140067	LOCATION DRAWING
400140068	HYDROLOGY MAP
400140069	ACCESS ROAD MAP
400140072	REFERENCE AREA MAP
400140074	REFERENCE AREA PICTURES
400140076	NRCS MAP UNIT DESC
400140077	OTHER
400140078	CONST. LAYOUT DRAWINGS
400140079	MULTI-WELL PLAN

Total Attach: 12 Files

**General Comments**

<b>User Group</b>	<b>Comment</b>	<b>Comment Date</b>
Permit	Wayne Bankert today emails that Laramie-Energy is preparing application for May 2 hearing to get new spacing order for drilling area to be developed. dhs	3/11/2011 3:00:14 PM
DOW	This well pad is located within the boundary of the Laramie Energy-CDOW Wildlife Mitigation Plan. The BMPs were developed and agreed to in consultation and development of the wildlife mitigation plan. The BMPs submitted to CDOW on Tuesday, March 8, 2011 are consistent with the BMPs agreed to in the wildlife mitigation plan and are appropriate for the site and species affected.  by Michael Warren on Tuesday, March 8, 2011 at 3:10 P.M.	3/8/2011 3:13:28 PM

Total: 2 comment(s)

**BMP**

<b>Type</b>	<b>Comment</b>
Storm Water/Erosion Control	CDPHE Stormwater Permit No. COR03G719 effective 8/17/2010
Wildlife	WMP signed with DOW 01-11-2011.

Total: 2 comment(s)