

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: 400160498

Oil and Gas Location Assessment

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: 423561 Expiration Date: 06/09/2014

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: 10132 Name: GENESIS GAS & OIL LLC Address: 1701 WALNUT STREET - 4TH FL City: KANSAS CITY State: MO Zip: 64108

3. Contact Information

Name: Robert Behner Phone: (816) 222-7500 Fax: (816) 222-7501 email: bbehner@genesisco.com

4. Location Identification:

Name: Calamity Ridge Number: 14-33 County: RIO BLANCO Quarter: LOT 5 Section: 14 Township: 1N Range: 100W Meridian: 6 Ground Elevation: 6868
Footage at surface: 2017 feet FSL, from North or South section line, and 1954 feet FEL, from East or West section line.
Latitude: 40.054018 Longitude: -108.582165 PDOP Reading: 1.6 Date of Measurement: 09/14/2010
Instrument Operator's Name: Pat McLinskey

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

Special Purpose Pits: [ ] Drilling Pits: [ ] Wells: [ 1 ] Production Pits: [ ] Dehydrator Units: [ ]
Condensate Tanks: [ ] Water Tanks: [ ] Separators: [ 1 ] 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: [ ] Oil Tanks: [ ] Fuel Tanks: [ ]

Other: \_\_\_\_\_

6. Construction:

Date planned to commence construction: 07/01/2011 Size of disturbed area during construction in acres: 1.60  
Estimated date that interim reclamation will begin: 09/01/2011 Size of location after interim reclamation in acres: 0.20  
Estimated post-construction ground elevation: 6868 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: 10/15/2010  
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: \_\_\_\_\_  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: 5280, public road: 5280, above ground utilit: 5280  
, railroad: 5280, property line: 600

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: moyerson stony clay loam, 15% to 65% slopes. Map Unit Symbol 53

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: cheatgrass

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: 247, water well: 26400, 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:**

There are not any improvements within 400' of pad disturbed area (wells, buildings, utilities, etc).

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

Signed: \_\_\_\_\_ Date: 04/29/2011 Email: sheryl@myersenergyservices.com

Print Name: Sheryl M. Little-Myers Title: Agent

**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: 6/10/2011

**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:**

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, if drill cuttings are to remain/disposed of onsite, they 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.

**WATER RESOURCES (SURFACE WATER AND GROUNDWATER) PROTECTION COAs:**

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, and maintained in good condition.

Due to the steep slopes to the north, this location is in an area of moderate to high run off/run on potential; therefore the pad shall be constructed as quickly as possible and appropriate BMPs need to be in place both during, after well pad construction completion, as well as during all drilling and well completion operations. 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.

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.

Location may be in a sensitive area due to shallow groundwater; therefore, any pit constructed to hold fluids must be lined.

**Attachment Check List**

Att Doc Num	Name
2033865	CORRESPONDENCE
400160498	FORM 2A SUBMITTED
400162776	NRCS MAP UNIT DESC
400162780	LOCATION PICTURES
400163323	HYDROLOGY MAP
400163685	ACCESS ROAD MAP
400163686	NRCS MAP UNIT DESC
400163690	ACCESS ROAD MAP
400163759	LOCATION DRAWING

Total Attach: 9 Files

**General Comments**

<b>User Group</b>	<b>Comment</b>	<b>Comment Date</b>
DOW	This well pad is located in mule deer critical winter range. The CDOW affirms that 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 Tuesday, June 7, 2011 at 3:05 P.M.	6/7/2011 3:06:01 PM
OGLA	Initiated/Completed OGLA Form 2A review on 05-30-11 by Dave Kubeczko; requested clarifications and acknowledgement of fluid containment, spill/release BMPs, lined pit, flowback to tanks, tank berming, and cuttings low moisture content COAs from operator on 05-30-11; received clarifications and acknowledgement of COAs from operator on 06-?-11; passed by CDOW on 06-07-11 with operator submitted BMPs (with permit application) acceptable; passed OGLA Form 2A review on 06-10-11 by Dave Kubeczko; fluid containment, spill/release BMPs, lined pit, flowback to tanks, tank berming, and cuttings low moisture content COAs.	5/30/2011 9:29:06 AM
Permit	Distance to property line changed to 600' by email from Meyers/Genesis. dhs	5/25/2011 7:26:37 AM
Permit	Back to draft. Location drawing, hydrology, and access road map are incorrect. One attachment named "other" won't open. NRCS is incorrect. sf	5/9/2011 9:16:04 AM
Permit	back to draft. None of the previously mentioned corrections were made. sf	5/3/2011 11:33:42 AM
Permit	Application returned to draft QQ is lot 5, listed as NWSE Surface bonding information was included for a federal location Sheryl M. Little-Myers is not an authorized agent No attachments were included	5/2/2011 9:07:21 AM

Total: 6 comment(s)

**BMP**

<b>Type</b>	<b>Comment</b>
Construction	during construction of this location, wattles will be installed at the toes of soils stockpiles, and strategically along the pad access. A culvert will be installed in the access
Final Reclamation	during final reclamation, equipment will be removed, the pad will be completely recontoured with subsoils and topsoils being appropriately redistributed, seeded and mulched. The wattles and culvert will be removed
Storm Water/Erosion Control	inspections will be performed at prescribed intervals, and mitigation will take place as necessary
Drilling/Completion Operations	the culvert and wattles will remain in place during this period
Interim Reclamation	if needed, the wattles will remain at the toes of the soils stockpiles. a large portion of the pad will be recontoured, with subsoils and topsoils redistributed and seeded... the culvert will remain in the pad access until the access itself is reclaimed

Total: 5 comment(s)