

**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



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Document Number:
400133273

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. 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:

422479

Expiration Date:

03/31/2014

☐ 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: 10316

Name: MESA ENERGY PARTNERS LLC

Address: 1001 17TH ST STE 1140

City: DENVER State: CO Zip: 80202

3. Contact Information

Name: Christopher A Noonan

Phone: (303) 820-4480

Fax: (303) 820-4124

email: bob@banko1.com

4. Location Identification:

Name: Big Duck Creek Water Staging Fac Number: _____

County: RIO BLANCO

QuarterQuarter: NWSE Section: 11 Township: 1S Range: 99W Meridian: 6 Ground Elevation: 6498

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: 2782 feet FSL, from North or South section line, and 2209 feet FEL, from East or West section line.

Latitude: 39.979390 Longitude: -108.470060 PDOP Reading: 2.1 Date of Measurement: 02/22/2011

Instrument Operator's Name: Dave Murrey

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

Special Purpose Pits: <input type="text"/>	Drilling Pits: <input type="text"/>	Wells: <input type="text"/>	Production Pits: <input type="text"/>	Dehydrator Units: <input type="text"/>
Condensate Tanks: <input type="text"/>	Water Tanks: <u>2</u>	Separators: <input type="text"/>	Electric Motors: <input type="text"/>	Multi-Well Pits: <input type="text"/>
Gas or Diesel Motors: <input type="text"/>	Cavity Pumps: <input type="text"/>	LACT Unit: <input type="text"/>	Pump Jacks: <input type="text"/>	Pigging Station: <input type="text"/>
Electric Generators: <input type="text"/>	Gas Pipeline: <input type="text"/>	Oil Pipeline: <input type="text"/>	Water Pipeline: <u>1</u>	Flare: <input type="text"/>
Gas Compressors: <input type="text"/>	VOC Combustor: <input type="text"/>	Oil Tanks: <input type="text"/>	Fuel Tanks: <input type="text"/>	

Other: _____

6. Construction:

Date planned to commence construction: 01/01/2011 Size of disturbed area during construction in acres: 0.80
Estimated date that interim reclamation will begin: 05/01/2011 Size of location after interim reclamation in acres: 0.80
Estimated post-construction ground elevation: 6498 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: 20090071 ☐ 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: 5280, public road: 400, above ground utilit: 5280
, railroad: 5280, property line: 660

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: 36 - Glendive Fine Sandy Loam

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: 04/20/2010

List individual species: P.J., Big Sage, Broomweed, Rabbitbrush, Slender Wheatgrass, Crested Wheatgrass, Indian Ricegrass, Bluebunch Wheatgrass, June grass, Western Wheatgrass, Phlox

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: 80, water well: 1770, depth to ground water: 82

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:

Mesa Energy Partners, LLC (Mesa), as the Buckhorn Draw Federal Unit Operator is requesting to permit a Produced Water Staging Area (PWSA) located off of CR 24X, on private surface, as indicated on the attached map. This facility has been constructed, and Mesa kindly requests an after-the-fact OGLA permit of the facility. Initially the PWSA will contain two 400 bbl capacity upright storage tanks with associated loadout and adequate secondary containment as per SPCC rules/regs, with the possibility of eventually expanding to eight tanks, when required on approximately .80 acres. The purpose of the request is to minimize/reduce water truck traffic and reduce costs by constructing a localized, centralized staging area which will serve both the F11 and F01 wells, and possibly future wells. Produced water will be piped underground from the two wells where it will be off-loaded via truck and hauled to an approved disposal facility. Mesa estimates that constructing/utilizing the proposed PWSA will eliminate approximately 240 road miles/month of truck traffic and subsequently reducing vehicle air emissions, dust and noise. The closest water well is located 1,770' to the NE, Permit No. 9120146.

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

IMPORTANT: SOME DATA FIELDS HAVE BEEN MODIFIED.

Signed: _____ Date: 03/03/2011 Email: bob@banko1.com

Print Name: Christopher A. Noonan Title: Permit Agent

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: 4/1/2011

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.

Banko (Bob Noonan) called to correct facility name typo and change surface owner information

Attachment Check List

Att Doc Num	Name
400133273	FORM 2A SUBMITTED
400138735	REFERENCE AREA PICTURES
400138736	LOCATION PICTURES
400138737	ACCESS ROAD MAP
400138738	CONST. LAYOUT DRAWINGS
400138739	HYDROLOGY MAP
400138740	LOCATION DRAWING
400138741	REFERENCE AREA MAP
400139945	NRCS MAP UNIT DESC

Total Attach: 9 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
OGLA	Initiated/Completed OGLA Form 2A review on 03-28-11 by Dave Kubeczko; changed to sensitive area SW; passed by CDOW on 03-09-11 with constructed facilities acceptable; passed OGLA Form 2A review on 03-28-11 by Dave Kubeczko; no COAs.	3/28/2011 10:21:54 AM
Permit	Added plugging bond information	3/22/2011 3:07:45 PM
DOW	CDOW has met with the operator, Mesa Energy, in regards to this facility. This facility was constructed in 2010 prior to the COGCC 2A permit being filed. Mesa is requesting that this permit be retroactive to the already existing facility. The tank battery, loadout facility and pipelines are in place and functioning. The consolidation of produced water from the F01 and F11 to this central location greatly minimizes truck traffic and surface disturbance. CDOW affirms that the approval of this permit and operation of this facility is in the best interest for the protection of wildlife in this area. Submitted by: Ed Winters, Land Use Specialist 9 March 2011 @ 16:26	3/9/2011 4:30:05 PM
Permit	Opr corrected. sf	3/7/2011 2:37:15 PM
Permit	Back to draft for NRCS. sf	3/7/2011 1:06:25 PM

Total: 5 comment(s)

BMP

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

Total: 0 comment(s)