

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:

400102084

## 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 stand alone 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:

**420406**

Expiration Date:

**11/15/2013**
☒ 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: 10354

Name: DAKOTA EXPLORATION LLC

Address: 7711 E 111TH STREET #118

City: TULSA State: OK Zip: 74133

## 3. Contact Information

Name: Fabrianna Venaducci

Phone: (303) 2790789

Fax: (303) 2791124

email: fabrianna@jameskaro.com

## 4. Location Identification:

Name: Arapaho State Number: 6-81-36-3

County: JACKSON

Quarter: NENW Section: 36 Township: 6N Range: 81W Meridian: 6 Ground Elevation: 8392

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: 884 feet, from North or South section line: FNL and 1800 feet, from East or West section line: FWL

Latitude: 40.450060 Longitude: -106.439150 PDOP Reading: 1.8 Date of Measurement: 10/11/2010

Instrument Operator's Name: Randall R Miller

## 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" value="1"/>	Wells: <input type="text" value="1"/>	Production Pits: <input type="text"/>	Dehydrator Units: <input type="text"/>
Condensate Tanks: <input type="text"/>	Water Tanks: <input type="text" value="1"/>	Separators: <input type="text" value="1"/>	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" value="1"/>	Pigging Station: <input type="text"/>
Electric Generators: <input type="text"/>	Gas Pipeline: <input type="text" value="1"/>	Oil Pipeline: <input type="text"/>	Water Pipeline: <input type="text"/>	Flare: <input type="text"/>
Gas Compressors: <input type="text"/>	VOC Combustor: <input type="text"/>	Oil Tanks: <input type="text" value="4"/>	Fuel Tanks: <input type="text"/>	

Other: 1 heater treater

## 6. Construction:

Date planned to commence construction: 11/20/2010 Size of disturbed area during construction in acres: 3.00  
Estimated date that interim reclamation will begin: 05/20/2011 Size of location after interim reclamation in acres: 2.00  
Estimated post-construction ground elevation: 8392 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: 20100201 ☐ 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: 1560, above ground utilit: 5280  
, railroad: 5280, property line: 884

## 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: Cr. Crespian-Carlstrom Clays

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: 10/07/2010

List individual species: \_\_\_\_\_  
\_\_\_\_\_

Check all plant communities that exist in the disturbed area.

- ☐ Disturbed Grassland (Cactus, Yucca, Cheatgrass, Rye)  
☐ Native Grassland (Bluestern, 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): sagebrush and grasses

### 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: 1035, water well: 4313, depth to ground water: 33

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:

Nearest building, RR and utility are all more than 5280' away. Nearest water well is a stock well approximately 4313' to East in the NWNW of Sec 31, T6N, R80W. Nearest surface water is a stream approximately 1035' to the west in the NW/4 of subject section. CDOW waived consultation (see attached correspondence). Reference area is on undisturbed ground immediately adjacent to and SE of the location, as shown in the "south" and "east" photos. Location photos are reference area photos.

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

Signed: \_\_\_\_\_ Date: 10/22/2010 Email: fabrianna@jameskaro.com

Print Name: Fabrianna Venaducci Title: Contract Landman

Based on the information provided herein, this Application for Permit-to-Drill complies with COGCC Rules and applicable orders and is hereby approved.

*David S. Neslin*

COGCC Approved: \_\_\_\_\_

Director of COGCC

Date: 11/16/2010

**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.**

Location is in a sensitive area because of the potential for shallow groundwater; therefore either a lined drilling pit or closed loop system must be implemented.

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.

The surface soils and materials are fine-grained and highly unconsolidated; 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.

Location is in a sensitive area because of the potential for shallow groundwater; therefore production pits (if constructed) must be lined.

Reserve pit must be lined or a closed loop system must be implemented during drilling.

Flowback to tanks only. Operator must submit a secondary and tertiary containment plan via sundry notice Form 4 for the tanks to Dave Kubeckzo.

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.

**Attachment Check List**

Att Doc Num	Name	Doc Description
2033495	CORRESPONDENCE	LF@2617235 2033495
2622162	SURFACE AGRMT/SURETY	LF@2616087 2622162
400102084	FORM 2A SUBMITTED	LF@2607921 400102084
400102373	NRCS MAP UNIT DESC	LF@2607922 400102373
400102673	LOCATION PICTURES	LF@2607923 400102673
400102765	LOCATION DRAWING	LF@2607927 400102765
400102767	HYDROLOGY MAP	LF@2607928 400102767
400102771	ACCESS ROAD MAP	LF@2607929 400102771
400103045	SURFACE AGRMT/SURETY	LF@2607930 400103045
400103046	SURFACE AGRMT/SURETY	LF@2607931 400103046

Total Attach: 10 Files

**General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Permit	Per Sherry Lee, this well has been bonded with State Land Board. Individual Plugging Bond confirmed with COGCC. Received SUA. Unchecked individual surface bond. Entered SUA as right to construct. PVG	11/9/2010 3:55:24 PM
OGLA	Initiated/Completed OGLA Form 2A review on 11-01-10 by Dave Kubeczko; requested clarifications and acknowledgement of shallow GW lined pits/closed loop, cuttings low moisture content, no pit in fill, stormwater BMP COAs from operator on 11-01-10; received clarifications and acknowledgement of COAs from operator on 11-01-10; passed by CDOW on 10-26-10, not within SWH; passed OGLA Form 2A review on 11-15-10 by Dave Kubeczko; lined pits/closed loop, cuttings low moisture content, no pit in fill, stormwater BMP COAs.	11/1/2010 1:51:32 PM
Permit	Per Fabriannia Venaducci, Dakota Exploration LLC has no existing wells and only one application pending.  The individual bonds on file with COGCC have a different well-name. ON HOLD, pending internal COGCC confirmation that the proposed location of this application is bonded and confirmation from State Land Board.  This application is otherwise complete. PVG	10/28/2010 10:39:29 AM
Permit	Unchecked location in sensitive wildlife habitat. PVG	10/28/2010 10:33:52 AM
DOW	CDOW has reviewed this location for wildlife. Although the Document #400102084 Form 2A was marked for sensitive wildlife habitat, analysis of this pad location with the approved HB 1298 wildlife maps indicates that this location is positioned outside of any sensitive wildlife habitat and restricted surface occupancy areas. Consultation between the operator, landowner and CDOW is not required.  Submitted by: Ed Winters, Land Use Specialist  26 October 2010 @ 07:36	10/26/2010 7:38:23 AM

Total: 5 comment(s)

Error: Subreport could not be shown.