

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:

2557567

## Oil and Gas Location Assessment

☐ New Location
 ☒ Amend Existing Location
 Location#: 414011

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:

**414011**

Expiration Date:

**08/10/2013**☒ 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: 76104

Name: SAMSON RESOURCES COMPANY

Address: TWO WEST SECOND ST

City: TULSA State: OK Zip: 74103

## 3. Contact Information

Name: GEORGANNE MITCHELL

Phone: (918) 583-1791

Fax: (918) 591-1796

email: GMITCHELL@SAMSON.COM

## 4. Location Identification:

Name: SILVER Number: 33-5-1

County: MOFFAT

Quarter: NWSE Section: 5 Township: 6N Range: 91W Meridian: 6 Ground Elevation: 6349

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: 2400 feet, from North or South section line: FSL and 1705 feet, from East or West section line: FEL

Latitude: 40.505764 Longitude: -107.625953 PDOP Reading: 2.4 Date of Measurement: 07/28/2008

Instrument Operator's Name: DR GRIFFIN & ASSOC. PAUL ORME

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

Special Purpose Pits: <input type="text" value="1"/>	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"/>	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"/>	Pigging Station: <input type="text"/>
Electric Generators: <input type="text"/>	Gas Pipeline: <input type="text"/>	Oil Pipeline: <input type="text"/>	Water Pipeline: <input type="text"/>	Flare: <input type="text" value="1"/>
Gas Compressors: <input type="text"/>	VOC Combustor: <input type="text"/>	Oil Tanks: <input type="text" value="3"/>	Fuel Tanks: <input type="text"/>	

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

## 6. Construction:

Date planned to commence construction: 07/20/2010 Size of disturbed area during construction in acres: 2.90  
Estimated date that interim reclamation will begin: 11/15/2010 Size of location after interim reclamation in acres: 1.50  
Estimated post-construction ground elevation: 6346 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: 10/06/2008  
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: 19820016 ☒ Gas Facility Surety ID: 19820016 ☒ Waste Mgnt. Surety ID: 19820016

## 9. Cultural:

Is the location in a high density area (Rule 603.b.): Yes ☐ No ☒  
Distance, in feet, to nearest building: 2500, public road: 2500, above ground utilit: 2500  
, railroad: 5280, property line: 1076

## 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: (SYMBOL NO. 22) BULKEY SILTY CLAY, 2-12% 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: SEE ATTACHED.

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): \_\_\_\_\_

### 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: 446, water well: 2653, depth to ground water: 32

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:

FORM 15 SUBMITTED WITH THIS 2A TO DOC# 2557572. SUA attached to form 2. 7/13/10 plg. COGCC: from opr 7/2/peb: "Silver 33-5 #1: #8 – Well Surety, Gas Facility and Waste Management will use Surety ID 1982-0016. #9 – Distance in feet to nearest building: ±2500', public road: ±2500', above ground utility: ±2500', railroad: >5280', Property line: ±1705' " 7/2/peb. COGCC: rec'd hydrology and corrections from opr (# refer to paper form lines on the 2A APD): "Silver 33-5 #1: #8 – Well Surety, Gas Facility and Waste Management will use Surety ID 1982-0016. #9 – Distance in feet to nearest building: ±2500', public road: ±2500', above ground utility: ±2500', railroad: >5280', Property line: ±1705' " 7/2/peb.

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

Signed: \_\_\_\_\_ Date: 05/14/2010 Email: GMITCHELL@SAMSON.COM

Print Name: GEORGANNE MITCHELL Title: SURFACE 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: 8/11/2010

**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.**

Operator must implement best management practices to contain any unintentional release of fluids.

Location is in a sensitive area because of close proximity to surface water, therefore, operator must ensure 110 percent secondary containment for any volume of fluids contained at well site during drilling and completion operations.

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.

Production pits must be lined.

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.

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

**Attachment Check List**

Att Doc Num	Name	Doc Description
2033240	NRCS MAP UNIT DESC	LF@2503110 2033240
2033282	CORRESPONDENCE	LF@2521558 2033282
2033284	NRCS MAP UNIT DESC	LF@2521559 2033284
2033285	HYDROLOGY MAP	LF@2521561 2033285
2033286	LOCATION PICTURES	LF@2521563 2033286
2033291	OTHER	LF@2521573 2033291
2033292	CORRESPONDENCE	LF@2521623 2033292
2557567	FORM 2A	LF@2483685 2557567
2557576	HYDROLOGY MAP	LF@2483710 2557576
2557577	NRCS MAP UNIT DESC	LF@2483686 2557577
2557578	CONST. LAYOUT DRAWINGS	LF@2483687 2557578
2557579	ACCESS ROAD MAP	LF@2483735 2557579
2557580	LOCATION DRAWING	LF@2483709 2557580
2557581	OTHER	LF@2483688 2557581
2557582	WELL LOCATION PLAT	LF@2483689 2557582
2589709	HYDROLOGY MAP	LF@2499487 2589709

Total Attach: 16 Files

**General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
DOW	<p>CDOW has meet and discussed this location with the operator and landowner. The conditions of the SUA in place between the operator and the landowner require that development occur in a timely manner. The lands surrounding this location are utilized for livestock as well as for wildlife. The landowner offers this area for commercial hunting. The SUA reflects the desires of the landowner for responsible development of the mineral resources as well as protection of the livestock and wildlife interests. CDOW affirms the provisions of the SUA as conditions of approval for this location.</p> <p>Submitted by: Ed Winters, Land Use Specialist</p> <p>26 July 2010 @ 9:53</p>	8/11/2010 11:48:13 AM
OGLA	<p>Initiated/Completed OGLA Form 2A review on 07-07-10 by Dave Kubeczko; requested clarifications and acknowledgement of close SW/water well fluid containment, spill/release BMPs, closed loop/line pits, cutting low moisture content, no pit in fill COAs from operator on 07-07-10; received clarifications and acknowledgement of COAs from operator on 08-11-10; passed by CDOW on 07-27-10, with operator/landowner SUA acceptable; passed OGLA Form 2A review on 08-11-10 by Dave Kubeczko; fluid containment, spill/release BMPs, closed loop/line pits, cutting low moisture content, no pit in fill COAs.</p>	8/11/2010 11:47:40 AM

Total: 2 comment(s)

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