

FORM
2A

Rev
04/01

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:

400324048

Date Received:

09/14/2012

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:

430920

Expiration Date:

11/28/2015

☒ 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: 10396

Name: SOUTHWESTERN ENERGY PRODUCTION COMPANY

Address: 2350 N SAM HOUSTON PKWY EAST #125

City: HOUSTON State: TX Zip: 77032

3. Contact Information

Name: Amy Johnson

Phone: (281) 618-7414

Fax: (281) 618-2919

email: amy_johnson@swn.com

4. Location Identification:

Name: Sylvester 7-28 Number: 1-22

County: ELBERT

QuarterQuarter: SWNW Section: 22 Township: 7S Range: 58W Meridian: 6 Ground Elevation: 5660

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: 2524 feet FNL, from North or South section line, and 844 feet FWL, from East or West section line.

Latitude: 39.425910 Longitude: -103.876580 PDOP Reading: 1.5 Date of Measurement: 05/23/2012

Instrument Operator's Name: THOMAS G. CARLSON

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" value="1"/>	Production Pits: <input type="text"/>	Dehydrator Units: <input type="text"/>
Condensate Tanks: <input type="text"/>	Water Tanks: <input type="text" value="2"/>	Separators: <input type="text" value="1"/>	Electric Motors: <input type="text" value="1"/>	Multi-Well Pits: <input type="text"/>
Gas or Diesel Motors: <input type="text" value="1"/>	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" value="1"/>	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" value="1"/>	VOC Combustor: <input type="text"/>	Oil Tanks: <input type="text" value="4"/>	Fuel Tanks: <input type="text"/>	

Other: _____

6. Construction:

Date planned to commence construction: 11/28/2012 Size of disturbed area during construction in acres: 4.50
 Estimated date that interim reclamation will begin: 07/01/2013 Size of location after interim reclamation in acres: 1.10
 Estimated post-construction ground elevation: 5660 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: only WBM at facility ID
 428350

7. Surface Owner:

Name: _____ Phone: _____
 Address: _____ Fax: _____
 Address: _____ Email: _____
 City: _____ State: _____ Zip: _____ Date of Rule 306 surface owner consultation: 05/31/2012
 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 20110200

8. Reclamation Financial Assurance:

☐ Well Surety ID: 20110201 ☐ 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: 1285, above ground utilit: 886
 , railroad: 5280, property line: 844

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: WaB, Weld Loam, 1 to 3 percent 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: 60% of the pad is bare ground, 40% of the vegetation consists of: 20% Chondrosium gracile (blue grama), 10% Opuntia species (prickly pear), 5% sage species (Artemisia species), 5% Gutierrezia sarothrae (Broom snakeweed)

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: 400, water well: 1300, depth to ground water: 35

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:

We will conduct baseline water well testing per COGA recommendations.

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

Signed: _____ Date: 09/14/2012 Email: amy_johnson@swn.com

Print Name: Amy Johnson Title: Regulatory Supervisor

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: Matthew Lee Director of COGCC Date: 11/29/2012

**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.

Attachment Check List

Att Doc Num	Name
2614119	REFERENCE AREA PICTURES
2614120	CORRESPONDENCE
2614121	CORRESPONDENCE
400324048	FORM 2A SUBMITTED
400327135	30 DAY NOTICE LETTER
400327136	OTHER
400327137	ACCESS ROAD MAP
400327138	LOCATION DRAWING
400327139	LGD CONSULTATION
400327140	WELL LOCATION PLAT
400327144	HYDROLOGY MAP
400327145	CONST. LAYOUT DRAWINGS
400327146	LOCATION PICTURES
400327147	NRCS MAP UNIT DESC

Total Attach: 14 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final review completed; no LGD or public comment received.	11/26/2012 12:57:06 PM
Permit	Right to construct revised to bonding on.	11/21/2012 12:19:51 PM
OGLA	Added Plant Community information from operator; attached reference area pictures; operator states that the Reference Area Pictures are from 500 feet south of the staked location; removed hold, passed OGLA task	11/21/2012 9:57:08 AM
OGLA	placed on hold, waiting for Plant Community/Reference Area; emailed operator for status update	11/2/2012 10:23:10 AM
OGLA	Requested land use change, plant community, and reference area information from operator; requested operator to change distance to nearest surface water to a playa 400 feet east of the proposed location	10/2/2012 10:39:24 AM
Agency	Operator corrected the surface owner information.	9/20/2012 11:54:16 AM
Permit	Tim Kelly confirmed that the minerals are state and the surface is fee. On hold waiting for surface owner.	9/20/2012 9:22:11 AM
Permit	Operator completed question no. 3; included well surety ID no. Operator amended/corrected surface owner. Operator amended/corrected footage at surface location to match well location plat. Operator updated water well distance.	9/20/2012 12:51:34 AM
Permit	Return to Draft: 1. Question No. 3 is incomplete; well surety ID number. 2. Surface owner section does not match attached documents and GIS mapping. 3. Surface and Minerals section does not match surface owner/attached documents and GIS mapping. 4. Footage at surface location (844'FEL) does not match well location plat attachment, lat/long information provided, or GIS mapping. (5. FYI: nearest water well is about 1300 feet distance to the NW of location; not 3850 feet per document.)	9/17/2012 2:26:24 PM

Total: 9 comment(s)

BMP

<u>Type</u>	<u>Comment</u>
Planning	When feasible develop multiple well sites by using directional drilling to reduce cumulative impacts and adverse impacts on wildlife resources.
Storm Water/Erosion Control	Use water bars, and other measures to prevent erosion and non-source pollution. Implement and maintain BMPs to control stormwater runoff in a manner that minimizes erosion, transport of sediment offsite, and site degradation. Co-locate gas and water gathering lines whenever feasible, and mitigate any erosion problems that arise due to the construction of any pipeline(s).
Final Reclamation	All surface restoration shall be accomplished to the satisfaction of Owner. All reseeding shall be done with grasses consistent with the Rocky Mountain native mix or other grasses reasonably requested by surface owner and during planting periods suggested by Owner. Final reclamation shall be completed to the reasonable satisfaction of the Owner as soon as practical after installation (weather permitting) and in accordance with regulatory agency standards (BLM/COGCC).
Construction	Remove only the minimum amount of vegetation necessary for the construction of roads and facilities. Conserve topsoil during excavation and reuse as cover on disturbed areas to facilitate regrowth of vegetation. No construction or routine maintenance activities will be performed during periods when the soil is too wet to adequately support construction equipment.
Site Specific	Fence the well site after drilling to restrict public and wildlife access. Keep well site location, the road, and the pipeline easement free of noxious weeds, litter and debris. Spray for noxious weeds, and implement dust control, as needed. Southwestern Energy Production Company will not permit the release or discharge of any toxic or hazardous chemicals or wastes on Owner's Land. Construct and maintain gates where any roads used by Southwestern Energy Production Company cross through fences on the leased premises.
Interim Reclamation	Utilize only such area around each producing well as is reasonably necessary. Restore the remainder of the well site location to its original condition within a reasonable time after the completion of operations. All reseeding shall be done with grasses consistent with the Rocky Mountain native mix or other grasses reasonably requested by surface owner and during planting periods suggested by Owner.

Total: 6 comment(s)