

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:

400274234

Date Received:

04/20/2012

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:

**429883**

Expiration Date:

**08/09/2015**

☐ 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: 10412

Name: AUS-TEX EXPLORATION INC

Address: 7985 W 16TH AVENUE

City: LAKEWOOD State: CO Zip: 80214

3. Contact Information

Name: Lisa Smith

Phone: (303) 857-9999

Fax: (303) 450-9200

email: lspermitco@aol.com

4. Location Identification:

Name: Pathfinder

Number: C 14-01 1

County: FREMONT

QuarterQuarter: SWSW Section: 1 Township: 20S Range: 70W Meridian: 6 Ground Elevation: 5955

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: 1121 feet FSL, from North or South section line, and 301 feet FWL, from East or West section line.

Latitude: 38.333375 Longitude: -105.179461 PDOP Reading: 1.7 Date of Measurement: 03/27/2012

Instrument Operator's Name: Dallas Nielson

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

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

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

6. Construction:

Date planned to commence construction: 07/20/2012 Size of disturbed area during construction in acres: 5.70  
Estimated date that interim reclamation will begin: 02/20/2013 Size of location after interim reclamation in acres: 3.50  
Estimated post-construction ground elevation: 5954 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: 04/20/2012  
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 20120039

## 8. Reclamation Financial Assurance:

☒ Well Surety ID: 20120037 ☐ 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: 1260, public road: 1502, above ground utilit: 1260  
, railroad: 5280, property line: 996

## 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: Fort Collins Loam 2 - 5%

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: 03/27/2012  
List individual species: \_\_\_\_\_

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: 1000, water well: 1046, depth to ground water: 98  
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:

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

Signed: \_\_\_\_\_ Date: 04/20/2012 Email: lspermitco@aol.com

Print Name: Lisa Smith Title: Authorized 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:  Director of COGCC Date: 8/10/2012

**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.**

Only enclosed flares shall be utilized at the location. A Form 4 Sundry Notice is required to be filed with the COGCC stating that flaring will be taking place on the location. The Sundry is required to be submitted and approved prior to initiating flaring. The Sundry shall also include a line drawing of the flare.

Prior to drilling, operator shall sample the two wells, springs, or surface water features within a one (1) mile radius of the proposed oil and gas location. Testing preference shall be given to water wells and springs over surface water. The sample location shall be surveyed in accordance with Rule 215.

Initial baseline testing shall include laboratory analysis of pH, total dissolved solids (TDS), specific conductivity (SC), sodium adsorption ratio (SAR) calculation, calcium (Ca), potassium (K), magnesium (Mg), sodium (Na), arsenic (As), boron (B), barium (Ba), cadmium (Cd), chromium (Cr), copper (Cu), iron (Fe), manganese (Mn), lead (Pb), selenium (Se). All metals analyzed for total recoverable; bromide (Br), chloride (Cl), fluoride (F), sulfate (SO<sub>4</sub>), alkalinity (total, HCO<sub>3</sub>, and CO<sub>3</sub> – all expressed as CaCO<sub>3</sub>), benzene, toluene, ethyl benzene, o-xylene, m- + p-xylene (BTEX), dissolved methane, diesel range organics (DRO), gasoline range organics (GRO). Sampling shall be performed by qualified individuals using methods consistent with commonly accepted environmental sampling procedures. Field observations such as pH, temperature, specific conductance, odor, water color, sediment, bubbles, and effervescence shall also be included.

After 90 days, but less than 180 days of completion of the first proposed well a “post-completion” test shall be performed for the same analytical parameters listed above and repeated one (1), three (3) and six (6) years thereafter.

If free gas or a dissolved methane concentration level greater than one (1) milligrams per liter (mg/l) is detected in a water well, gas compositional analysis and stable isotope analysis of the methane (carbon and deuterium) shall be performed to determine gas type (biogenic or thermogenic). If the methane concentration increases by more than five (5) mg/l between sampling periods, or increases to more than ten (10) mg/l, the operator shall notify the Director and the owner of the water well immediately. If thermogenic methane concentrations increase between sampling periods, the operator shall submit to the Director an action plan to determine the source of the increase.

Copies of all test results described above shall be provided to the Director and the landowner where the water quality testing well is located within three (3) months of collecting the samples used for the test. The analytical data and surveyed sample locations shall also be submitted to the Director in an electronic data deliverable format approved by Director.

The construction layout drawings show a flare pit. Flare pits are special purpose pits, requiring a Form 15 within 30 days of construction (if no condensate is anticipated), if accumulation of condensate is anticipated, a Form 15 must be submitted and approved prior to construction.

Provide notice to COGCC 48-hours prior to commencement of construction activities via form 42.

Operator must implement site-specific best management practices in accordance with good engineering practices, including, but not limited to, construction of a berm or diversion dike, site grading, or other comparable measures, sufficient to prevent a release of drilling, completion, produced fluids, or chemical products from migrating off the location.

Provide notice to COGCC 48-hours prior to commencement of Hydraulic Fracturing activities via form 42.

### Attachment Check List

Att Doc Num	Name
2533562	CORRESPONDENCE
2533563	CORRESPONDENCE
2533565	CORRESPONDENCE
2533575	DOW CONSULTATION
2533576	DOW CONSULTATION
2533634	CONST. LAYOUT DRAWINGS
2533635	CORRESPONDENCE
2533638	CORRESPONDENCE
400274234	FORM 2A SUBMITTED
400275052	ACCESS ROAD MAP
400275058	HYDROLOGY MAP
400275059	LOCATION PICTURES
400275060	LOCATION DRAWING
400275061	REFERENCE AREA MAP
400275062	REFERENCE AREA PICTURES
400275063	NRCS MAP UNIT DESC
400275064	LEGAL/LEASE DESCRIPTION

Total Attach: 17 Files

### General Comments

User Group	Comment	Comment Date
OGLA	Barbara McFarland (PermitCo) verbally approved making changes to the Wildlife bmps, changing disturbed area on the 2A to match the layout drawings and updating the dates to begin construction and interim reclamation.	7/19/2012 9:42:03 AM
OGLA	Total disturbed acres after reclamation is 3.5 acres. 2.2 acres for the pad and 1.3 acres for the access road.	7/19/2012 9:36:14 AM
Permit	Final Review passed 7/18/2012 NKP	7/18/2012 1:09:12 PM
OGLA	The requested amendments to the location drawing have been made by Aus-Tex. Ready to pass.	7/18/2012 8:31:48 AM
OGLA	Depth to water 98 feet (Receipt #0374892, Permit # 44176) 1,030 feet north west of the location.	7/16/2012 2:27:07 PM
Permit	The CGS Coal Mine map indicates potential coal mines in the area of the proposed wellbore.	5/17/2012 4:27:10 PM
OGLA	The DOW Consult was received and the CPW task passed at Al Trujillo's request. Wildlife BMPs were added to the BMP tab.	5/15/2012 2:45:25 PM
OGLA	Operator has stated that they are going to drill closed loop and dispose of cuttings at an offsite disposal facility.	5/14/2012 11:15:25 AM
Permit	Corrected per email from opr verifying surety ID number, distance to property line and right to construct.	5/3/2012 3:40:38 PM
Permit	Email to opr to verify right to construct, surety ID number	5/2/2012 4:12:06 PM
OGLA	Location is in Sensitive Wildlife Area (Elk Winter Range and Elk Production). Wildlife BMPs will apply.	4/24/2012 8:15:16 AM

Total: 11 comment(s)

## **BMP**

<b><u>Type</u></b>	<b><u>Comment</u></b>
Wildlife	Operator will comply with Rule 1204.a.(1) requiring installation and use of bear-proof dumpsters
Wildlife	Location is mapped in elk winter range, therefore, new construction, drilling, completion and re-completion activities will not be scheduled between December 1 and April 15. Routine operations and maintenance will not be limited by this BMP.

Total: 2 comment(s)