

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:

400299592

Date Received:

06/26/2012

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:

**430121**

Expiration Date:

**09/05/2015**

☒ 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: 100264

Name: XTO ENERGY INC

Address: 382 CR 3100

City: AZTEC State: NM Zip: 87410

3. Contact Information

Name: Kelly Kardos

Phone: (505) 333-3145

Fax: (505) 213-0546

email: kelly\_kardos@xtoenergy.com

4. Location Identification:

Name: TOUPAL SWD Number: 2

County: LAS ANIMAS

QuarterQuarter: SWNE Section: 10 Township: 34S Range: 67W Meridian: 6 Ground Elevation: 7049

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: 1777 feet FNL, from North or South section line, and 1972 feet FEL, from East or West section line.

Latitude: 37.101084 Longitude: -104.872764 PDOP Reading: 6.0 Date of Measurement: 02/08/2012

Instrument Operator's Name: GARY TERRY

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"/> 1	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"/>	Separators: <input type="checkbox"/>	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"/>	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"/> 1	Flare: <input type="checkbox"/>
Gas Compressors: <input type="checkbox"/>	VOC Combustor: <input type="checkbox"/>	Oil Tanks: <input type="checkbox"/>	Fuel Tanks: <input type="checkbox"/>	

Other: GAS AND/OR DIESEL MOTORS WILL BE USED FOR THE DRILLING RIG

6. Construction:

Date planned to commence construction: 08/15/2012 Size of disturbed area during construction in acres: 2.07  
Estimated date that interim reclamation will begin: 10/15/2012 Size of location after interim reclamation in acres: 0.60  
Estimated post-construction ground elevation: 7049 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: BURY/HAUL

## 7. Surface Owner:

Name: \_\_\_\_\_ Phone: \_\_\_\_\_  
Address: \_\_\_\_\_ Fax: \_\_\_\_\_  
Address: \_\_\_\_\_ Email: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ Date of Rule 306 surface owner consultation: 02/08/2012  
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 \_\_\_\_\_

## 8. Reclamation Financial Assurance:

☒ Well Surety ID: 20100210 ☐ 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: 219, public road: 11745, above ground utilit: 10560  
, railroad: 10560, property line: 180

## 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: FuD BANDARITO CLAY LOAM, 3 TO 9% 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: Western Wheatgrass, Green Needlegrass, Blue Grama, Griffith Wheatgrass, Bluegrass

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: 266, water well: 7500, depth to ground water: 20

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:

XTO Energy is the surface owner. There are no water wells within a mile of the proposed well

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

Signed: \_\_\_\_\_ Date: 06/26/2012 Email: kelly\_kardos@xtoenergy.com

Print Name: KELLY KARDOS Title: SR. PERMITTING TECH

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: 9/6/2012

**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.**

Permanent equipment that shall be kept to the minimum possible on the site once drilling, completion and interim reclamation have taken place.

All temporary equipment that contains fluids shall have secondary containment. The secondary containment shall meet the specifications described in rule 604.a.4.

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 protect the South Fork of the Purgatoire River located 266 feet south of the oil and gas location from a release of drilling, completion, produced fluids, and chemical products.

Location is in a sensitive area because of proximity to surface water and is in a riparian buffer; therefore, either a lined drilling pit or closed loop system is required.

The operator will conduct baseline sampling of (at a minimum) two locations on the South Fork of the Purgatoire River. One sample from the South Fork of the Purgatoire River should be taken upstream of the pad and one should be taken below the pad. The operator may conduct additional water monitoring at their own discretion. 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. Post completion surface water samples shall be collected at 3 months, 1 year, 3 years and 6 years. Post completion sampling will consist of the same analyte list as the pre-drilling program. Copies of all test results, field parameters and field observations described above shall be provided to the Director and the water well owner within three (3) months of collecting the samples. The analytical data and surveyed sample locations shall also be submitted to the Director in an electronic data deliverable format approved by Director.

Temporary equipment shall be placed as far away from the South Fork of the Purgatoire River as practical.

Approval of this form does not authorize injection. Authorization to inject requires approval of Form 31 and Form 33.

### **Attachment Check List**

Att Doc Num	Name
2533628	CORRESPONDENCE
400299592	FORM 2A APPROVED
400299606	SURFACE AGRMT/SURETY
400299608	NRCS MAP UNIT DESC
400299609	PROPOSED BMPs
400299610	CONST. LAYOUT DRAWINGS
400299612	ACCESS ROAD MAP
400299613	HYDROLOGY MAP B, AERIAL
400299614	HYDROLOGY MAP B, TOPO
400299615	LOCATION PICTURES
400299616	REFERENCE AREA MAP
400299617	REFERENCE AREA PICTURES
400299618	CONSULT NOTICE
400299620	LOCATION DRAWING
400324404	FORM 2A SUBMITTED

Total Attach: 15 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Operator revised distance to public road. Final review completed; no LGD or public comment received.	3/9/2012 9:32:48 AM
OGLA	Ready to pass 7/17/2012.	7/10/2012 3:17:37 PM
OGLA	The location falls within in a riparian buffer and shallow groundwater is present therefore the location is a Sensitive Area. The sensitive area tab has been changed to yes.	6/29/2012 7:56:34 AM

Total: 3 comment(s)

### BMP

<u>Type</u>	<u>Comment</u>
Construction	<p>Certificate to Discharge Under CDPS General Permit No. COR-030000 Stormwater Discharges Associated with Construction Certification No. COR034312 Prior to construction perimeter controls will be installed utilizing cuttings from the clearing operations. Brush Barriers shall be placed down gradient of the disturbance. Once the well pad has been constructed a variety of B.M.P.'s shall be utilized for the site specific conditions. These devices may include but are not limited to:</p> <ul style="list-style-type: none"><li>• Brush Barriers</li><li>• Dirt Berm/Bar Ditch</li><li>• Clean Water Run on Diversion</li><li>• Seeding</li><li>• Erosion Control Blankets</li><li>• Mulch Tackifier</li><li>• Rip-Rap</li></ul> <p>During construction each site will be inspected every 14 days and 72 hours after any major storm event. These inspections will be recorded and maintained at the XTO office. Repairs shall be completed within 7 days of the initial inspection. Any modifications shall be revised on the site plan and then implemented at the site. A Field Wide Stormwater Management Plan (SWMP) for the Raton Basin is on file at the XTO Energy Inc. office. A Site Specific SWMP with a Site Plan will be developed for each location and can be found in:</p> <ul style="list-style-type: none"><li>• Appendix F- Apache Canyon Lease</li><li>• Appendix G- Golden Eagle Lease</li><li>• Appendix H- Hill Ranch Lease</li><li>• Appendix I- New Elk Lease</li></ul> <p>Wildlife BMP required for Raton Basin utilize bear proof dumpsters and trash receptacles for food related trash at all facilities that generate such trash. Spill Prevention and Counter Measures (SPCC) for the Raton Basin is on file at the XTO Energy Inc. office. The Field SWMP and Site Specific SWMP each address SPCC during construction operations. Typical BMP Site Diagram Attached</p>

Total: 1 comment(s)