

FORM  
2A

Rev  
04/01

# 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:  
400170373

## 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:

Expiration Date:

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: 10138  
 Name: TEXAS AMERICAN RESOURCES COMPANY  
 Address: 410 17TH STREET SUITE 1610  
 City: DENVER      State: CO      Zip: 80202

### 3. Contact Information

Name: Melissa Lasley  
 Phone: (720) 279-6805  
 Fax: ( )  
 email: mlasley@texasarc.com

### 4. Location Identification:

Name: Siefkin      Number: 11-30H  
 County: WELD  
 Quarter: NWNW Section: 30 Township: 7N Range: 61W Meridian: 6 Ground Elevation: 4820

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: 465 feet FNL, from North or South section line, and 573 feet FWL, from East or West section line.

Latitude: 40.551460      Longitude: -104.258200      PDOP Reading: 1.2      Date of Measurement: 03/28/2011

Instrument Operator's Name: Adam Kelly

### 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"/> 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"/>	Pigging Station: <input type="checkbox"/>
Electric Generators: <input type="checkbox"/>	Gas Pipeline: <input type="checkbox"/> 1	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"/> 1	Oil Tanks: <input type="checkbox"/> 5	Fuel Tanks: <input type="checkbox"/>	

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

## 6. Construction:

Date planned to commence construction: 01/02/2012 Size of disturbed area during construction in acres: 2.50  
Estimated date that interim reclamation will begin: 06/01/2012 Size of location after interim reclamation in acres: 1.50  
Estimated post-construction ground elevation: 4818 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: James Siefkin Phone: \_\_\_\_\_  
Address: 4920 McMurray Fax: \_\_\_\_\_  
Address: \_\_\_\_\_ Email: \_\_\_\_\_  
City: Fort Collins State: CO Zip: 80525 Date of Rule 306 surface owner consultation: \_\_\_\_\_  
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 20070042

## 8. Reclamation Financial Assurance:

Well Surety ID: 20090100  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: 4875, public road: 559, above ground utilit: 4440  
, railroad: 5280, property line: 465

## 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 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: Olney fine sandy loam, 0 to 6 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: \_\_\_\_\_  
\_\_\_\_\_

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: 253, water well: 2900, depth to ground water: 193

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:

Surface owner waived consultation. No surface use agreement has been worked out as of to date. Bond is being used. All oil and gas leases are attached.

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

Signed: \_\_\_\_\_ Date: 06/13/2011 Email: mlasley@texasarc.com

Print Name: Melissa Lasley Title: Sr. Operations Analyst

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: \_\_\_\_\_

**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
400170373	FORM 2A SUBMITTED
400173601	WELL LOCATION PLAT
400173602	ACCESS ROAD MAP
400173606	LOCATION DRAWING
400173622	HYDROLOGY MAP
400173625	NRCS MAP UNIT DESC
400173630	OTHER
400173633	OIL & GAS LEASE
400173635	PROPOSED BMPs
400173652	OIL & GAS LEASE
400173653	OIL & GAS LEASE
400175089	LOCATION PICTURES

Total Attach: 12 Files

**General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>

Total: 0 comment(s)

**BMP**

<u>Type</u>	<u>Comment</u>
Construction	<p data-bbox="472 132 613 159"><b>Introduction</b></p> <p data-bbox="472 163 1490 396">This document serves as a basic summary of the Texas American Resources Best Management Practices (BMPs) Manual. The techniques listed herein consist of temporary and permanent solutions to reduce erosion and pollution at construction sites. These practices have a rating of either “effective or “very effective.” Specific construction and design parameters for these techniques go unmentioned; however, this document provides a complete list of erosion control BMPs and general guidelines for selecting an appropriate BMP for a project. For more detailed information, and specifics on construction and design, please refer to the full BMP manual.</p> <p data-bbox="472 401 805 428"><b>General Construction BMPs</b></p> <p data-bbox="472 432 1507 575">Texas American Resources currently enlists BMPs rated as “very effective” during three types of construction; Well Site Construction, Road and Access Way Construction, and Pipeline Construction. In addition, Drainage and Drainage Structure BMPs are considered “very effective” and are implemented during construction projects. During Well Site Construction, sites should be determined based on their topographic features.</p> <p data-bbox="472 579 1507 1079">Sites should be placed on level surfaces relatively close to an access road, with steep slopes avoided or properly mitigated. Consideration of Road and Access Way Construction guarantees the engineering and environmental success of a road construction project. Before road construction, the roadway speed limits, travelway width, road gradient limits, water drainage, and other design parameters all ensure a road that can be easily maintained with minimal environmental impacts. When planning for Pipeline and Flowline Construction, the manual’s construction guidelines provide for minimal surface disturbance, reduced impact to natural resources, and adequate clearance for wildlife, livestock, or debris. When placing a pipeline or flowline, the guidelines state that steep terrain or watercourses should be avoided, under story vegetation should remain along the pipeline or flowline route, and soils should be stockpiled to the side of trenches in order to maintain reclamation potential for the site. In order to best minimize soil erosion during construction, Drainage and Drainage Structures are properly constructed; promoting the long-term success of the construction site. Both surface and subsurface drainage needs are identified and properly constructed to allow for adequate movement of silt and debris, as well as to mitigate potential buildup of water in undesired areas.</p>

Storm Water/Erosion Control

Erosion Control

Four “very effective” erosion control techniques that can be implemented are Interceptor Swales, Erosion Dikes, Vegetation, and Mulching. Interceptor Swales are small v-shaped or parabolic channels, and can be used to direct either sediment or clean water runoff around disturbed areas. They may be lined with either grass, matting, stone or concrete. Interceptor swales serve as a first defense against erosion. Diversion Dikes can also be used to direct runoff. These are usually made of a compacted soil mound, earthen berm, or waddle used to direct offsite water flow to a desired location (sometimes a sediment basin or protected inlet) before erosion takes place. The use of natural Vegetation is another highly effective method of erosion control and is used in either temporary or permanent situations. In temporary uses, vegetation can be used to stabilize stockpiles or barren areas, or in permanent situations it can stabilize soils in runoff areas and provide for some water absorption. The use of vegetation may not be appropriate for areas with heavy pedestrian or vehicle traffic, and a cost/benefit analysis should be done as initial seeding may be expensive. Mulching of organic materials can be used to protect newly seeded areas. Mulch will protect soils from erosion or desiccation, giving vegetation a chance to establish for further erosion control. All four of these erosion control techniques can be used in conjunction with one another, depending on the project needs.

Sediment Loss Prevention

In order to prevent sediment loss, Texas American implements four “effective” techniques; the use of Silt Fence, Straw Bales, Check Dams, and Sandbag Berms. Silt Fence consists of a geotextile fabric; part of which is secured in the ground. The fence is supported by poultry netting and is stretched between wooden or metal posts. The fence forms a sediment filter, and also allows for a reduction in runoff velocity. The silt fence is most effective with coarse to silty soil types. It is an economical means of sediment control because it can be relocated for use in future projects; however, it may lead to minor local flooding as runoff may collect upstream of the fence in pools. Straw Bale Dikes are simply straw bales fastened to the surface with wooden posts. Straw bales serve as sediment filters, and can act as a dam/dike to manipulate runoff flow direction. These are for temporary use only as they have a tendency to degrade, and should be replaced every three months. Check Dams consist of various materials including straw bales, rock, or earth berms placed across drainage swales or ditches. They are effective in reducing sediment erosion in areas where vegetation may not be present. Used in conjunction with other sediment control techniques, check dams can reduce the initial runoff velocity and provide for some sediment reduction; making other downstream erosion control techniques more effective. They are usually used for long linear construction projects such as roadways. Minor pooling may occur between and upstream of check dams. The final listed sediment loss control technique is the utilization of Sandbag Berms, which are ideal for construction projects in creeks, channels, or any other watercourse with a high/consistent flow of water. These berms consist of bags of sand, but also contain overflow pipes on top of the berm to direct water flow once sedimentation has occurred. They can be used to direct stream flow as check dams, but can also be used to form small sedimentation ponds while constructing a detention basin. Sandbag berms are ideal in that they can be moved to accommodate changing needs; however they are labor intensive and not suitable for areas with low flow. Sandbag berms should be inspected daily, with silt removed after it reaches six inches.

General Housekeeping	<p data-bbox="472 86 716 113"><b>Waste Management</b></p> <p data-bbox="472 113 1507 615">Two “very effective” BMPs for general housekeeping in construction projects are Solid Waste Management and Hazardous Waste Management. Large amounts of Solid Waste are produced in construction projects; including paper, cardboard, Styrofoam, wood cuttings, etc... To manage solid waste, employees should be educated in practicing proper disposal techniques, keeping waste off the ground in order to reduce storm water contamination. Emphasis should be on minimizing production of solid wastes, but also the responsible segregation and timely disposal of wastes in a licensed landfill. Non-hazardous wastes should always be kept separate from hazardous wastes. In Hazardous Waste Management, wastes such as paint, solvents, stains, fuels, or other toxic chemicals pose a special threat to environmental health. Hazardous waste disposal and safety training is a top priority. Limiting the use of hazardous materials is ideal, but when it is necessary, disposal should be done in clearly marked containers. A regular hazardous waste disposal schedule should be created to minimize on-site storage. Disposal should only be done by reputable, licensed hazardous waste haulers. For a more complete list of disposal specifications, along with specifics for all topics listed in this document, please refer to the Texas American Resources Best Management Practices (BMP) Manual.</p>
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Total: 3 comment(s)