

FORM 2A Rev 04/01

State of Colorado Oil and Gas Conservation Commission

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Table with columns DE, ET, OE, ES

Document Number: 400165953

Oil and Gas Location Assessment

New Location Amend Existing Location Location#: 386804

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.

Location ID: 386804 Expiration Date: 06/09/2014

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: 10084 Name: PIONEER NATURAL RESOURCES USA INC Address: 1401 17TH ST STE 1200 City: DENVER State: CO Zip: 80202

3. Contact Information

Name: Georgina Kovacic Phone: (303) 675-2611 Fax: (303) 294-1251 email: georgina.kovacik@pxd.com

4. Location Identification:

Name: BROOKS Number: 23-22 County: LAS ANIMAS Quarter: NE/SW Section: 22 Township: 32S Range: 66W Meridian: 6 Ground Elevation: 7550 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: 2389 feet FSL, from North or South section line, and 1490 feet FWL, from East or West section line. Latitude: 37.242910 Longitude: -104.770950 PDOP Reading: 4.2 Date of Measurement: 04/20/2011 Instrument Operator's Name: R. Coberly

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

Special Purpose Pits: 0 Drilling Pits: 1 Wells: 1 Production Pits: 1 Dehydrator Units: 0
Condensate Tanks: 0 Water Tanks: 0 Separators: 1 Electric Motors: 0 Multi-Well Pits: 0
Gas or Diesel Motors: 1 Cavity Pumps: 1 LACT Unit: 0 Pump Jacks: 0 Pigging Station: 1
Electric Generators: 0 Gas Pipeline: 1 Oil Pipeline: 0 Water Pipeline: 1 Flare: 0
Gas Compressors: 0 VOC Combustor: 0 Oil Tanks: 0 Fuel Tanks: 0
Other:

6. Construction:

Date planned to commence construction: 08/20/2011 Size of disturbed area during construction in acres: 1.00
Estimated date that interim reclamation will begin: 11/20/2011 Size of location after interim reclamation in acres: 0.50
Estimated post-construction ground elevation: 7547 Will a closed loop system be used for drilling fluids: Yes
Will salt sections be encountered during drilling: Yes No X Is H2S anticipated? Yes No X
Will salt (>15,000 ppm TDS Cl) or oil based muds be used: Yes No X
Mud disposal: Offsite Onsite X Method: Land Farming Land Spreading Disposal Facility
Other: Drilling pit

7. Surface Owner:

Name: Phone:
Address: Fax:
Address: Email:
City: State: Zip: Date of Rule 306 surface owner consultation: 04/20/2011
Surface Owner: X Fee State Federal Indian
Mineral Owner: X 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 X Blanket Surety ID 20040084

8. Reclamation Financial Assurance:

Well Surety ID: 20040083 Gas Facility Surety ID: Waste Mgmt. Surety ID:

9. Cultural:

Is the location in a high density area (Rule 603.b.): Yes No X
Distance, in feet, to nearest building: 2400 , public road: 2375 , above ground utilit: 2350
, railroad: 60700 , property line: 1020

10. Current Land Use (Check all that apply):

Crop Land: Irrigated Dry land Improved Pasture Hay Meadow CRP
Non-Crop Land: Rangeland X 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 X 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: Gulnare-Allens Park Complex, 5 to 35% 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: 04/20/2011

List individual species: pine, cedar, oak

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: 1260, water well: 1275, depth to ground water: 500

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:

If a pit liner is used it will properly managed as solid waste when the pit is closed in accordance with state rules. The reference area is an undisturbed area adjacent to and to the south of the well pad. The reference area photos will be submitted within 12 months. The water well used to determine the static water level is #0450292

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

Signed: \_\_\_\_\_ Date: 05/19/2011 Email: georgina.kovacik@pxd.com

Print Name: Georgina Kovacik Title: Engineering 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: \_\_\_\_\_

*David S. Nesline*

Director of COGCC

Date: 6/10/2011

**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.**

Prior to building and putting the production pit (Fac. ID #285201) into use Pioneer will submit a Sundry (Form 4) for Fac. ID #285201 changing the pit from an unlined earthen pit to a lined earthen pit.

Reference area pictures shall be provided to the COGCC within 12 months of approval of the form 2A.

Location is in a sensitive area because of potential for adverse impacts to ground water/surface water; therefore all pits will be lined.

**Attachment Check List**

Att Doc Num	Name
2533244	CORRESPONDENCE
400165953	FORM 2A SUBMITTED
400166155	ACCESS ROAD MAP
400166157	CONST. LAYOUT DRAWINGS
400166167	HYDROLOGY MAP
400166168	CONST. LAYOUT DRAWINGS
400166169	LOCATION DRAWING
400166170	MINERAL LEASE MAP
400166172	LOCATION PICTURES
400166173	LOCATION PICTURES
400166174	SURFACE PLAN
400166176	TOPO MAP
400166178	WELL LOCATION PLAT
400166179	NRCS MAP UNIT DESC
400166181	PROPOSED BMPs

Total Attach: 15 Files

**General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
OGLA	Ready to pass 6/10/2011	5/26/2011 8:29:00 AM
OGLA	Pioneer currently has an approved form 15 (Fac. ID #285201) for an unlined pit on this location that was not previously constructed. An unlined pit would be in conflict with the COAs for this location so the following will apply:  Prior to building and putting the production pit into use Pioneer will submit a Sundry (Form 4) for Fac. ID #285201 changing the pit from an unlined earthen pit to a lined earthen pit.	5/25/2011 8:34:08 AM

Total: 2 comment(s)

**BMP**

<u>Type</u>	<u>Comment</u>
Storm Water/Erosion Control	A diversion ditch will be installed on the cut side to divert rain water and snow melt from the location. Erosion control devices will be installed on the fill side of the location to contain any erosion from the fill slope.
Material Handling and Spill Prevention	The edge of the location will be bermed in all areas of fill to prevent any liquids from leaving the location during drilling and completion operations.
Interim Reclamation	All areas of the location will be recotoured to the original stage.
Material Handling and Spill Prevention	<p>1. Structural Practices for Erosion and Sediment Control: Structural BMPs include, but are not limited to: diversion ditch, earthen berm, silt fence, straw bale, wattle (straw/mulch/bark), rip rap, bonded fiber matrix, erosion control blanket, coconut matting, slash, brush dam, sediment retention pond, and turnout.</p> <p>2. Non-Structural Practices for Erosion and Sediment Control: Nonstructural BMPs include, but are not limited to: preservation of existing vegetation, vegetative buffer zones, slope roughening, and protection of trees.</p> <p>3. Materials Handling and Spill Prevention: All drums and totes temporarily stored onsite shall be inspected regularly to ensure integrity. Secondary containment shall be utilized when necessary or required by SPCC regulations. Spill response equipment shall be available in the event of a spill or release. Onsite personnel are instructed to report all spills; Pioneer shall investigate all spills to ensure proper clean-up/remediation measures and required reporting protocol is implemented. Spill cleanup materials are onsite in the event of a release. All spills are reported according to state and federal requirements.</p> <p>4. Waste Management and Disposal (Including Concrete Washout): A skid-mounted cage/dumpster is placed at a well pad during construction and is utilized while crews 2 are onsite during drilling and completion activities. Upon completion of these activities the dumpster</p>

<p>Construction</p>	<p>The construction sequence is simple and standardized for well pads, access roads, and pipelines constructed throughout the Raton Basin. Best Management Practices (BMPs) will be selected and implemented where needed to minimize potential for discharge of sediment and other pollutants to the waters of the state. Perimeter erosion controls will be implemented prior to the time of disturbance to retain sediment on site during construction activities. Then vegetation will be cleared for the construction of these sites. Well pad locations will be promptly roughened and graded after clearing. All sites will have permanent erosion controls (both structural and non-structural) installed upon completion of construction activities and exposed areas will be seeded when feasible, depending upon seasonal and weather conditions. Erosion controls will be selected on the basis of the site's topography, amount of vegetation, soil type, and distance to surface water. BMPs will be selected and implemented during appropriate phases of construction activity. Attached is a template used for the placement of erosion control BMP's. Pioneer has identified potential pollutants of concern that may be present on a construction/well site during routine operations. Pioneer has developed a pollution prevention plan to protect from such discharges; in the event, of a discharge, a spill response and cleanup plan is in place to address such events. Spill Prevention Control and Countermeasures (SPCC) plans are not associated with individual well sites due to the absence of petroleum and condensate production and storage; however, SPCC plans are utilized for drilling rig units that operate in the Raton Basin.</p>
<p>General Housekeeping</p>	<p>Good housekeeping practices will be used to reduce the risk of spills or other accidental exposure of materials and substances to stormwater runoff. The following good housekeeping practices will be followed onsite during the construction project.</p> <ul style="list-style-type: none"> <li>• No solid materials, including building materials, shall be discharged to State waters.</li> <li>• Vehicular traffic will be minimized as much as possible to reduce nuisance dust and prevent further soil erosion.</li> <li>• Any trash generated during the project will be disposed of properly.</li> <li>• Any chemicals used will be kept to a minimum. Any chemical or oil spills will be cleaned up immediately in accordance with established company procedures.</li> <li>• Store all materials in a neat and orderly manner in their appropriate containers.</li> <li>• Follow manufacturers' recommendations and company policies for proper use and disposal of products.</li> <li>• Monitor on-site vehicles for leaks.</li> </ul>

Total: 6 comment(s)