

State of Colorado
Oil and Gas Conservation Commission

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

received
12/23/2009
document 200235421
facility 416055

EARTHEN PIT REPORT / PERMIT

This form is to be used for both reporting and permitting pits. Rule 903 describes when a Permit with prior approval, or a Report within 30 days, is required for pits. Submit required attachments and forms.

FORM SUBMITTED FOR:

 Pit Report X Pit PermitComplete the
Attachment Checklist

OGCC Operator Number: <u>10084</u>	Contact Name and Telephone: <u>David Castro</u>	Detailed Site Plan	Oper	OGCC
Name of Operator: <u>PIONEER NATURAL RESOURCES USA, Inc.</u>	No: <u>303-298-8100</u>	Topo Map with Pit Location	X	
Address: <u>1401 17th STREET, SUITE 1200</u>	Fax: <u>303-298-7800</u>	Water Analysis (Form 25)	X	
City: <u>DENVER</u> State: <u>CO</u> Zip: <u>80202</u>		Source Wells (Form 26)	n/a	
		Pit Design Plan & Cross Sect.	X	
		Design Calculations	X	
		Sensitive Area Determination	X	
		Mud Program	n/a	
		Form 2A	X	

API Number (of associated well): 05-071-09382 COGCC Facility ID (of other associated facility):

Pit Location (Qtr, Sec, Twp, Rng, Meridian) SWSE, SEC. 10, T33S, R66W, 6TH P.M.

Latitude: 37.17985 Longitude: -104.76433 County: LAS ANIMAS

Pit Use: X Production Drilling (Attach mud program) Special Purpose (Describe use):

Pit Type: X Lined Unlined Surface Discharge Permit: X Yes No

Offsite disposal of pit contents: Injection Commercial Pit/Facility Name: Foxtrot 34-10 Pit/Facility No:

Form 25 to provide Produced Water Analysis results. See COA

Existing Site Conditions

Is the location in a "Sensitive Area"? Yes X No Attach data used for determination.

Distance (in feet) to nearest surface water: 828' ground water: 41' water wells: 1431'

LAND USE (or attach copy of Form 2A, if previously submitted for associated well) Select one which best describes land use:

Crop Land: Irrigated Dry Land Improved Pasture Hay Meadow CRP

Non-Crop Land: Rangeland X Timber Recreational Other (describe):

Subdivided: Industrial Commercial Residential Form 2A Attached

SOILS (or attach copy of Form 2A, if previously submitted for associated well)

Soil map units from USNRCS survey: Sheet No: 57 Soil Complex/Series No: LRT

Soils Series Name: Lorencito-Rombo-Sarcillo Complex Horizon thickness (in inches): A: A: 0-4 B: AC: 4-16 C: Cr: 16-26

Attach detailed site plan and topo map with pit location.

Pit Design and Construction

Size of pit (feet): Length: 80 Width: 45 Depth: 6

Calculated pit volume (bbls): 3846 Daily inflow rate (bbls/day): 35

Daily disposal rates (attach calculations): Evaporation 5.1 bbl/day Percolation: n/a bbls/day

Type of liner material: PVCR Faille Finish Fabric Thickness: 30 mil

Attach description of proposed design and construction (include sketches and calculations).

Method of treatment of produced water prior to discharge into pit (separator, heater treater, other): SEPARATOR

Is pit fenced? X Yes No Is pit netted? Yes X No

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

Print Name: David Castro

Signed: [Signature] Title: Environmental Coordinator Date: 12/22/09

OGCC Approved: Title: Date:

CONDITIONS OF APPROVAL, IF ANY:

Facility Number: 416055

water quality data provided with form 15 submittal

Form 15-Additional Information

Raton Basin

1. Contacts

Primary Contact Person:

Gerald Jacob
Pioneer Natural Resources USA, Inc.
1401 17th Street, Suite 1200
Denver, Colorado 80202
303-298-8100
303-298-7800 (FAX)

Local Contact Person:

Elton Smith
Pioneer Natural Resources USA, Inc.
11318 County Road 53.5
Trinidad, Colorado 81082
719-846-7898
719-846-1657 (FAX)

2. Purpose of this application. Pioneer has submitted this application to convert the existing drilling reserve pit on the wellsite to a lined earthen pit for the storage, evaporation and disposal of produced groundwater. Produced water will be piped directly from the wellhead to the converted reserve pits via a surface line. This lined earthen pit is located within the confines of the existing wellsite. Any excess water production will be trucked or piped to the nearest permitted multi-well unlined earthen pit or disposed of in an existing Class II injection well. In the future, Pioneer could discharge from this lined earthen pit under a CDPHE surface discharge permit.

3. Sensitive area determination. This proposed earthen pit shall be lined with a 30 mil Faille Finish Fabric Liner; no percolation of produced water shall occur from this lined pit.

4. Well site survey and color map. The proposed pit is located on the well site and is shown on the attached color map.

5. Water quality testing. Pioneer typically collects a representative water sample from the wellhead approximately 60 to 90 days after first gas sales. If final water quality results are available, they shall be submitted with this pit permit application. If final water quality results are not available at the time of pit permit application submittal, results shall be submitted to the Commission as soon as final reports are received by Pioneer.

6. Calculations:

Surface area = length x width = 80 feet x 45 feet = 3600 sq. feet

Storage capacity = length x width x depth = 80 feet x 45 feet x 6 feet =
21600 cubic feet. 21600 cubic feet x 1 barrel/5.615 cubic feet = 3846 barrels

Daily evaporative loss. Based on climatic data and a conversion table provided by COGCC, evaporation loss for this area (Las Animas County) averages 45 pan inches/year = 5.1 barrel(s)/day for 3600 square feet of pit surface.

Percolation rate. Not applicable- no percolation.

7. *Water wells within 1/8 mile* Known, permitted water wells (based on State records) within a one-mile radius are shown on the attached map.

8. *Inspection and reporting.* Typically, water production and/or the lined earthen pit is monitored at least once a day by Pioneer field personnel. All spills and/or releases will be reported in accordance with COGCC and CDPHE regulations.

Projection: UTM
Datum: NAD 1927
Zone: 13N
Units: Feet
Date: 10/13/08

State of Colorado
Oil and Gas Conservation Commission

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



FOR OGCC USE ONLY

DRILL SITE/ACCESS ROAD RECLAMATION FORM

This form shall be submitted in duplicate with the application for permit-to-drill (OGCC Form 2) unless a Federal 13-point surface plan is included. Also required are a minimum of two photographs (site and access road). Soil and plant community information is from United States Natural Resources Conservation Services (USNRCS).

Complete the Attachment Checklist

	Oper	OGCC
Drill site and access photographs	✓	
CDE Section 404 documentation		

1. OGCC Operator Number: 10084

2. Name of Operator: Pioneer Natural Resources USA Inc

3. Address: 1401 17th Street, Ste. 1200

City: Denver State: CO Zip: 80202

5. Well Name and No.: Foxtrot 34-10

6. County: Las Animas

7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SW/SE - 10 - T33S R66W 6th pm

4. Contact Name and Telephone:
Georgina Guzman
No: (303) 675-2611
Fax: (303) 294-1275

Pre-Drilling Information
Current Land Use

8. Crop Land: ☐ Irrigated ☐ Dry Land ☐ Improved Pasture ☐ Hay Meadow ☐ CRP

9. Non-Crop Land: ☐ Rangeland ☒ Timber ☐ Recreational ☐ Other (describe): _____

10. Subdivided: ☐ Industrial ☐ Commercial ☐ Residential

Attach color photographs of drill site and access road; identify each photo by date, well name and location.

Soils

11. Soil map units from USNRCS survey: Sheet No: Weston Soil Complex/Series No: LRT

Soils Series Name: Lorencito-Rombo-Sarcillo Complex Horizon thickness (in inches): A: 0-4 B: AC: 4-16 C: Cr: 16-26

Soils Series Name: _____ Horizon thickness (in inches): A: _____ B: _____ C: _____

Plant Community

Complete this section only if operations are to be conducted upon non-crop land.

12. Plant species from: ☐ USNRCS or ☒ Field Observation Date of observation: 3/19/07

List individual species: Pine, pinyon, cedar, oak

13. Check one predominant plant community for the drill site:

☐ Disturbed Grassland (Cactus, Yucca, Cheatgrass, Rye, Thistle)

☐ Grassland (Bluestem, Grama, Wheatgrass, Buffalograss, Fescue, Oatgrass, Brome)

☐ Shrub and Brush Land (Mahogany, Oak, Sage, Serviceberry, Chokecherry)

☐ Plains Deciduous Riparian (Cottonwood, Willow, Aspen, Maple, Poplar, Russian Olive, Tamarisk)

☐ Mountain Conifer Riparian (Spruce, Fir, Ponderosa Pine)

☒ Evergreen Forest Land (Spruce, Fir, Ponderosa Pine, Lodgepole Pine, Juniper, Pinyon)

☐ Aquatic (Bullrush, Sedges, Cattail, Arrowhead)

☐ Tundra (Alpine, Willow, Currant, Raspberry)

☐ Other (describe): _____

14. Was an Army Corps of Engineers Section 404 Permit filed? ☐ Yes ☒ No If yes, attach appropriate documentation.

Comments:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access road; that I am familiar with the conditions which presently exist, that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Georgina Guzman

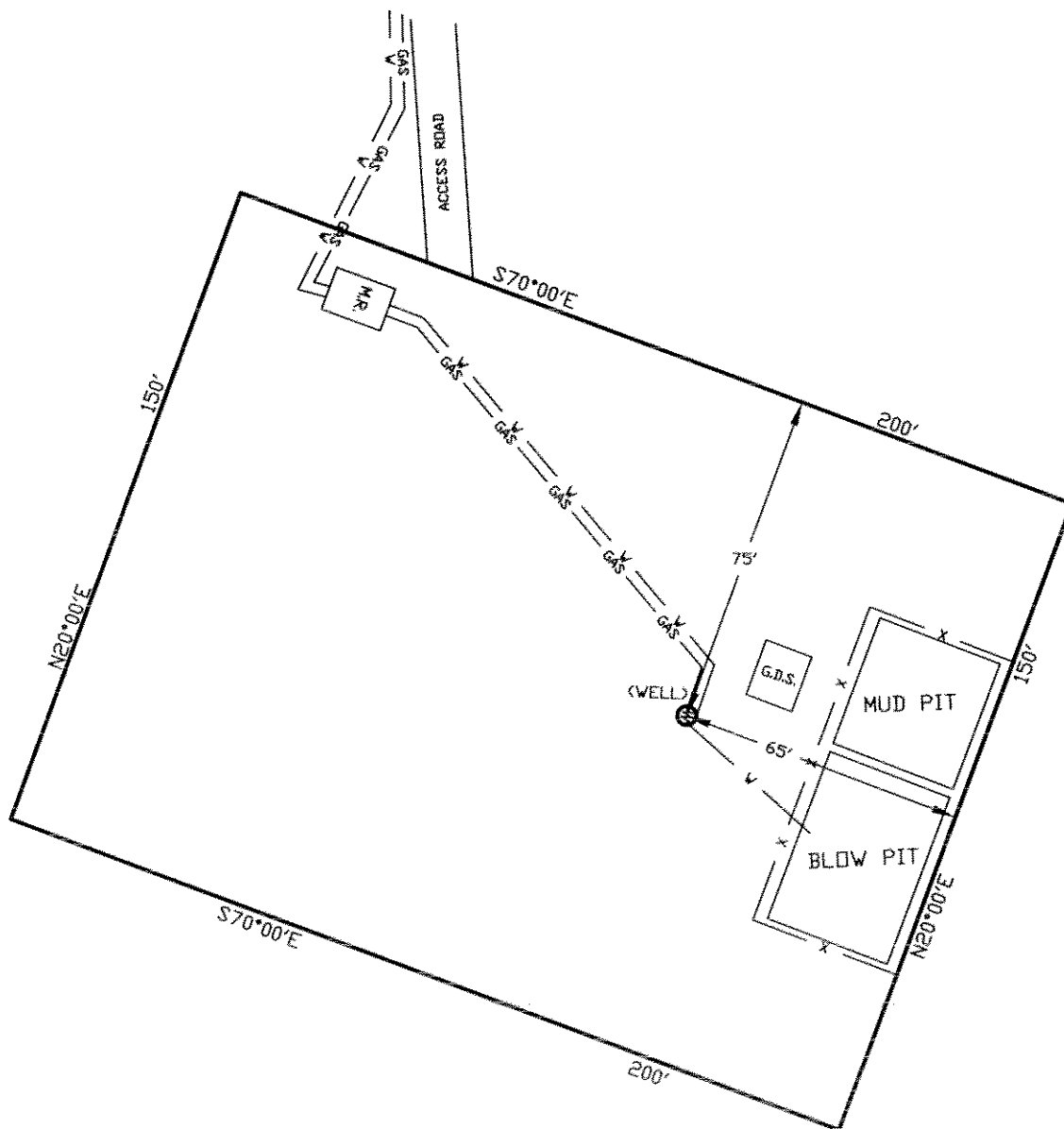
Signed: _____ Title: Engineering Tech. Date: _____

WELLSITE/PRODUCTION EQUIPMENT LAYOUT

OPERATOR: Pioneer Natural Resources

WELL NAME: Foxtrot 34-10

SWSE of SECTION 10 TOWNSHIP 33 S, RANGE 66 W OF THE 6TH P.M., IN LAS ANIMAS COUNTY



NOTE:

MUD AND BLOW PITS WILL BE CONVERTED TO UNLINED EVAPORATION PITS FOR PRODUCTION.

WELLHEADS ARE TYPICALLY PCP DRIVE HEADS

GRAPHIC SCALE



(IN FEET)

1 inch = 40 ft.

LEGEND:

- ⊙ = WELLHEAD
- = EXISTING WELLPAD
- X = FENCE (4 STRAND)
- GAS — = 4" GAS GATHERING LINE
- W — = 2" WATER LINE
- M.R. = COMBO METER RUN AND WATER/GAS SEPERATOR
- G.D.S. = GAS DRIVE SYSTEM

March 23, 2007

Date Platted

SHIELDS SURVEY L^{td}. C^o.
Raton, New Mexico 87740
(505)445-1232

PIONEER NATURAL RESOURCES USA, INC.

LINED EARTHEN PIT APPLICATION

WELL/LOCATION: Fox trot 34-10

Scale: 1" = 5'

