District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-144
July 21, 2008

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.
For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

Type of action: ☐ Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method
Existing BGT ☐ Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method
BGT1 ☒ Modification to an existing permit
☐ Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances

1.
Operator: XTO Energy, Inc. OGRID #: 5380
Address: #382 County Road 3100, Aztec, NM 87410
Facility or well name: Gerk Gas Com #1
API Number: 30-045-07911 OCD Permit Number:
U/L or Qtr/Qtr B Section 30 Township 29N Range 09W County: San Juan
Center of Proposed Design: Latitude 36.701020 Longitude 107.815520 NAD: ☐ 1927 ☒ 1983
Surface Owner: ☐ Federal ☐ State ☒ Private ☐ Tribal Trust or Indian Allotment

2.
☐ **Pit:** Subsection F or G of 19.15.17.11 NMAC
Temporary: ☐ Drilling ☐ Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A
☐ Lined ☐ Unlined Liner type: Thickness _____ mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other _____
☐ String-Reinforced
Liner Seams: ☐ Welded ☐ Factory ☐ Other _____ Volume: _____ bbl Dimensions: L_____ x W_____ x D_____

3.
☐ **Closed-loop System:** Subsection H of 19.15.17.11 NMAC
Type of Operation: ☐ P&A ☐ Drilling a new well ☐ Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other _____
☐ Lined ☐ Unlined Liner type: Thickness _____ mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other _____
Liner Seams: ☐ Welded ☐ Factory ☐ Other _____

4.
☒ **Below-grade tank:** Subsection I of 19.15.17.11 NMAC
Volume: 95 bbl Type of fluid: Produced Water
Tank Construction material: Steel
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☒ Other Visible sidewalls, vaulted, automatic high-level shut off, no liner
Liner type: Thickness _____ mil ☐ HDPE ☐ PVC ☐ Other _____

5.
☐ **Alternative Method:**
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

6.

Fencing: Subsection D of 19.15.17.11 NMAC *(Applies to permanent pits, temporary pits, and below-grade tanks)*

☐ Chain link, six feet in height, two strands of barbed wire at top *(Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)*

☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet

☒ Alternate. Please specify Four foot height, steel mesh field fence (hogwire) with pipe top railing

7.

Netting: Subsection E of 19.15.17.11 NMAC *(Applies to permanent pits and permanent open top tanks)*

☐ Screen ☐ Netting ☒ Other Expanded metal or solid vaulted top

☐ Monthly inspections (If netting or screening is not physically feasible)

8.

Signs: Subsection C of 19.15.17.11 NMAC

☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

☒ Signed in compliance with 19.15.3.103 NMAC

9.

Administrative Approvals and Exceptions:

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:

☐ Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau office for consideration of approval.

☐ Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

10.

Siting Criteria (regarding permitting): 19.15.17.10 NMAC

Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. **Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system.**

Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☒ Yes ☐ No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☒ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. *(Applies to temporary, emergency, or cavitation pits and below-grade tanks)* - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☒ No ☐ NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. *(Applies to permanent pits)* - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No ☒ NA
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☒ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☒ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☒ No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☒
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☒
Within a 100-year floodplain. - FEMA map	☐ Yes ☒

11.
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☒ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
- ☐ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC
- ☒ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☒ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☒ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☒ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

12.
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9
- ☐ Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____

☐ Previously Approved Operating and Maintenance Plan API Number: _____ *(Applies only to closed-loop system that use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)*

13.
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Climatological Factors Assessment
- ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Quality Control/Quality Assurance Construction and Installation Plan
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Nuisance or Hazardous Odors, including H_2S, Prevention Plan
- ☐ Emergency Response Plan
- ☐ Oil Field Waste Stream Characterization
- ☐ Monitoring and Inspection Plan
- ☐ Erosion Control Plan
- ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

14.
Proposed Closure: 19.15.17.13 NMAC
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.

Type: ☐ Drilling ☐ Workover ☐ Emergency ☐ Cavitation ☐ P&A ☐ Permanent Pit ☒ Below-grade Tank ☐ Closed-loop System ☐ Alternative

Proposed Closure Method:
- ☒ Waste Excavation and Removal
- ☐ Waste Removal (Closed-loop systems only)
- ☐ On-site Closure Method (Only for temporary pits and closed-loop systems)
  - ☐ In-place Burial ☐ On-site Trench Burial
- ☐ Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)

15.
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) ***Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.***

- ☒ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☒ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
- ☒ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
- ☒ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☒ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
- ☒ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

16.
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC)
Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Will any of the proposed closed-loop system operations and associated activities occur on or in areas that *will not* be used for future service and operations?
☐ Yes (If yes, please provide the information below) ☐ No

Required for impacted areas which will not be used for future service and operations:
☐ Soil Backfill and Cover Design Specifications - - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

17.
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC
Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.

Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☐ No
Within a 100-year floodplain. - FEMA map	☐ Yes ☐ No

18.
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) ***Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.***
☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
☐ Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
☐ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
☐ Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)
☐ Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

19.
Operator Application Certification:
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): Kim Champlin Title: Environmental Representative

Signature: Kim Champlin Date: 01/12/2009

e-mail address: kim_champlin@xtoenergy.com Telephone: (505) 333-3100

20.
OCD Approval: ☒ Permit Application (including closure plan) ☐ Closure Plan (only) ☐ OCD Conditions (see attachment)

OCD Representative Signature: Jaclyn Burdine **Approval Date:** 08/10/2022

Title: Environmental Specialist-A **OCD Permit Number:** BGT1

21.
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC
Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.

☐ **Closure Completion Date:**

22.
Closure Method:
☐ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)
☐ If different from approved plan, please explain.

23.
Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:
Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.

Disposal Facility Name: Disposal Facility Permit Number:

Disposal Facility Name: Disposal Facility Permit Number:

Were the closed-loop system operations and associated activities performed on or in areas that *will not* be used for future service and operations?
☐ Yes (If yes, please demonstrate compliance to the items below) ☐ No

Required for impacted areas which will not be used for future service and operations:
☐ Site Reclamation (Photo Documentation)
☐ Soil Backfilling and Cover Installation
☐ Re-vegetation Application Rates and Seeding Technique

24.
Closure Report Attachment Checklist: ***Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.***
☐ Proof of Closure Notice (surface owner and division)
☐ Proof of Deed Notice (required for on-site closure)
☐ Plot Plan (for on-site closures and temporary pits)
☐ Confirmation Sampling Analytical Results (if applicable)
☐ Waste Material Sampling Analytical Results (required for on-site closure)
☐ Disposal Facility Name and Permit Number
☐ Soil Backfilling and Cover Installation
☐ Re-vegetation Application Rates and Seeding Technique
☐ Site Reclamation (Photo Documentation)
On-site Closure Location: Latitude Longitude NAD: ☐ 1927 ☐ 1983

25.
Operator Closure Certification:
I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): Title:

Signature: Date:

e-mail address: Telephone:

NEW MEXICO OIL CONSERVATION COMMISSION

November 7, 1958

PAN AMERICAN PETROLEUM CORPORATION — Gerk Gas Unit

1 — B — 30 — 29 NORTH — 9 WEST, NMPM

990 — the NORTH — 1650 — the EAST

SAN JUAN — * — 407.56

Mesaverde — Blanco Mesaverde

X — *To be reported later

X

Communitized Acreage

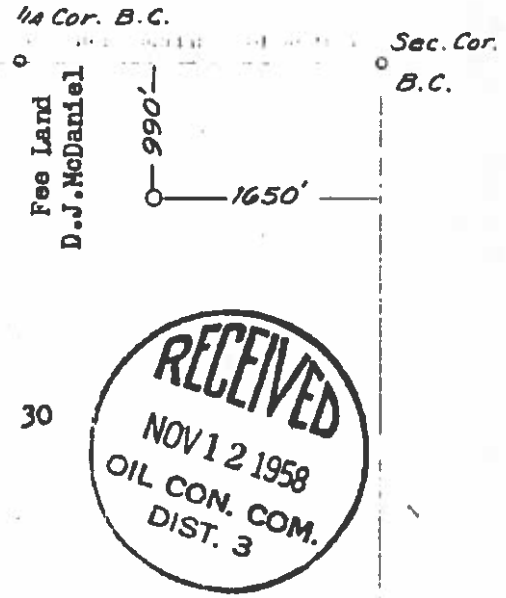
Owner

Note: See attached plat for unit outline. Approval of non-standard gas proration unit granted by N.M.O.C.C. Order No. R-1098 dated December 18, 1957.

PAN AMERICAN PETROLEUM CORPORATION

R. M. Bauer, Jr. R M Bauer Jr.

Box 487, Farmington, New Mexico



Ref: GLO plat dated 2 July 1952

4 OCTOBER 1957

James P. Leese

JAMES P. LEESE NEW MEX. REG. No. 1463

Lodestar Services, Inc.
PO Box 4465, Durango, CO 81302

Pit Permit Siting Criteria Information

Client:	XTO Energy
Project:	tank permitting
Revised:	5-Jan-09
Prepared by:	Trevor Ycas

API#:	30-045-07911	USPLSS:	29N 9W 30 B
Name:	GERK GAS COM No. 001	Lat/Long:	36.701020°, -107.815520°
Depth to groundwater:	depth < 50'	Geologic formation:	Nacimiento Formation (Tn)
Distance to closest continuously flowing watercourse:	5500 feet NW to 'San Juan River'	site elevation: 1738m/5702 '	
Distance to closest significant watercourse, lakebed, playa lake, or sinkhole:	2520' NW to 'Hammond Ditch'; 820 feet SW to 'San Juan River'		
		Soil Type:	Alfisol / Entisol
Permanent residence, school, hospital, institution or church within 300'	NO		
		Annual Precipitation:	Navajo Reservoir: 11.90", Aztec: 9.77", Farmington (FAA): 8.21", Bloomfield: 8.71'
Domestic fresh water well or spring within 500'	NO	Precipitation Notes:	Historical daily max. precip.: 4.0" (Bloomfield)
Any other fresh water well or spring within 1000'	NO		
Within incorporated municipal boundaries	NO	Attached Documents:	29N09W_iWaters.pdf, 29N10W_iWaters.pdf, 29N11W_iWaters.pdf, 30N09W_iWaters.pdf, 30N10W_iwaters.pdf, 30N11W_iwaters.pdf, 31N09W_iWaters.pdf, 31N10W_iWaters.pdf, 31N11W_iWaters.pdf
Within defined municipal fresh water well field	NO	FM35006405508_30-045-07911.jpg	30-045-07911_gEarth-iWaters.jpg, 30-045-07911_gEarth-PLS.jpg ,30-045-07911_topo-PLS.jpg, 30-045-07911_gEarth-iWaters-zoom.jpg
Wetland within 500'	NO	Mining Activity:	None Near NM_NRD-MMD_MinesMillQuarries_30-045-07911.jpg
Within unstable area	NO		
Within 100 year flood plain	NO		

Additional Notes:

drains to 'San Juan River' | atop bluff overlooking, and N of, SJ river | S of 'Blanco'

GERKGAS COM No. 001
API 30-045-07911
Below Ground Tank
Hydrogeologic Report for Siting Criteria

General Geology and Hydrology

The San Juan Basin is a typical Rocky Mountain basin with a gently dipping southern flank and a steeply dipping northern flank. Asymmetrically layered Tertiary sandstones and shales, along with Quaternary alluvial deposits, dominate surficial geology (Dane and Bachman, 1965). The proposed pit location will be situated immediately north of the San Juan River, near Blanco, NM.

The predominant geologic formation this close to the San Juan River is Quaternary alluvium. Cretaceous and Tertiary sandstones, as well as Quaternary alluvial deposits serve as the primary aquifers in the San Juan Basin (Stone et al., 1983). Alluvial valley fill consists of gravel, sand, silt and clay, but coarse sand and gravel dominate near the San Juan River (Stone et al., 1983). Numerous shallow wells produce water from valley fill for stock and domestic uses along the river and transmissivities are generally high.

The prominent soil type at the proposed site is entisols, which are defined as soils that exhibit little to no profile development (www.emnrd.state.nm.us). Soils are basically unaltered from their parent rock. Miles of arroyos, washes and intermittent streams exist as part of the drainage network towards the San Juan River. These features often cut into soil and other unconsolidated materials, contributing to sedimentation downstream. The sudden influx of water from storm events easily erodes the soils that cover the area and prohibits effective recharge to the underlying aquifers.

Dry and arid weather further prohibit active recharge. The climate of the region is arid, averaging just over 8 inches of rainfall annually. As is typical of the southwestern United States monsoonal weather patterns, most precipitation falls from August through October. The heaviest rainfall occurs in the summer in isolated, intense cloudbursts. November through June is relatively dry. Snow generally falls from December to mid-February and averages less than one-half inch in depth. However, most recharge occurs during the winter months during snowmelt periods from the upper elevations (Western Regional Climate Center www.wrcc.dri.edu).

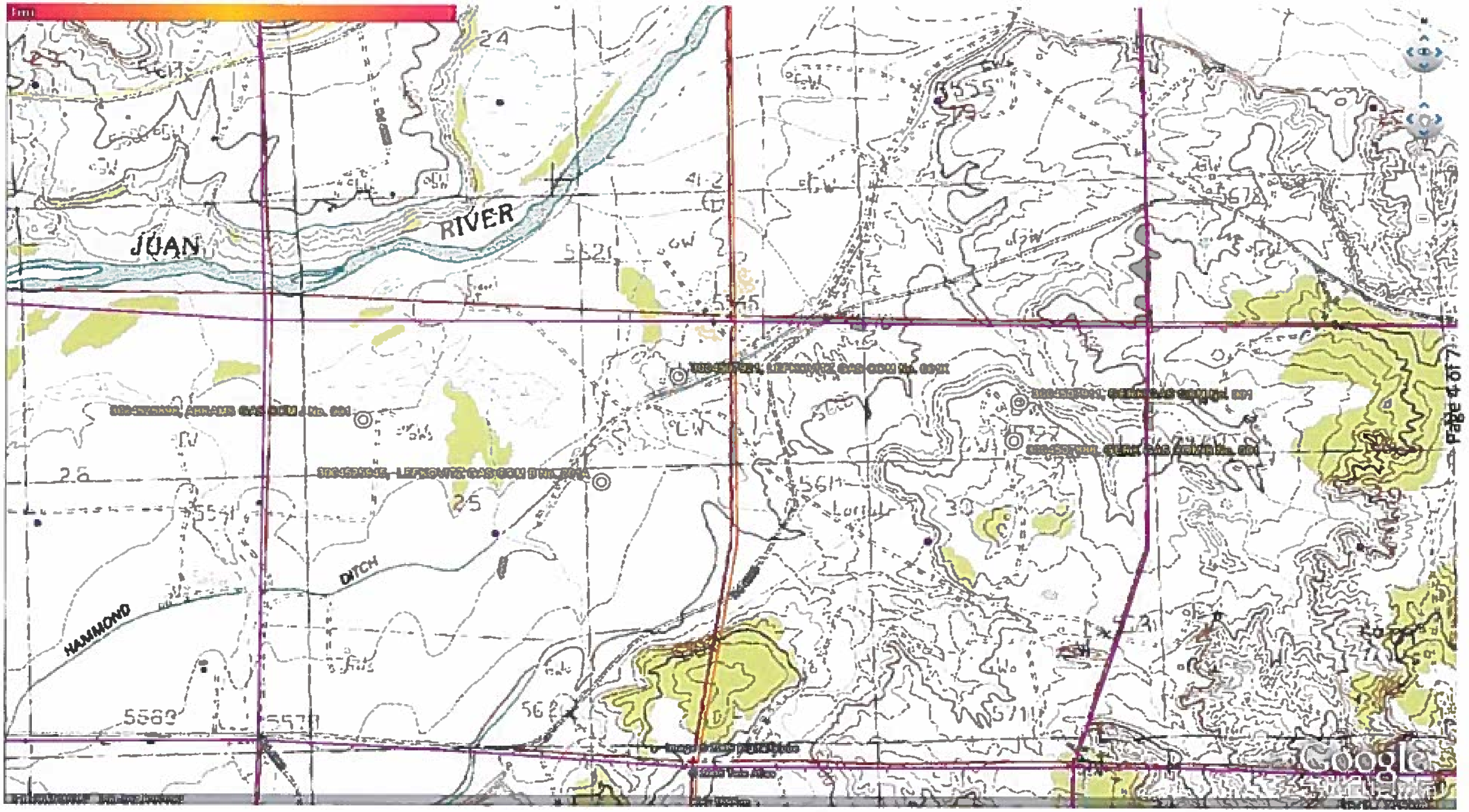
The predominant vegetation is sagebrush and grasses with a more restricted pinon-juniper association (Dick-Peddie, 1993).

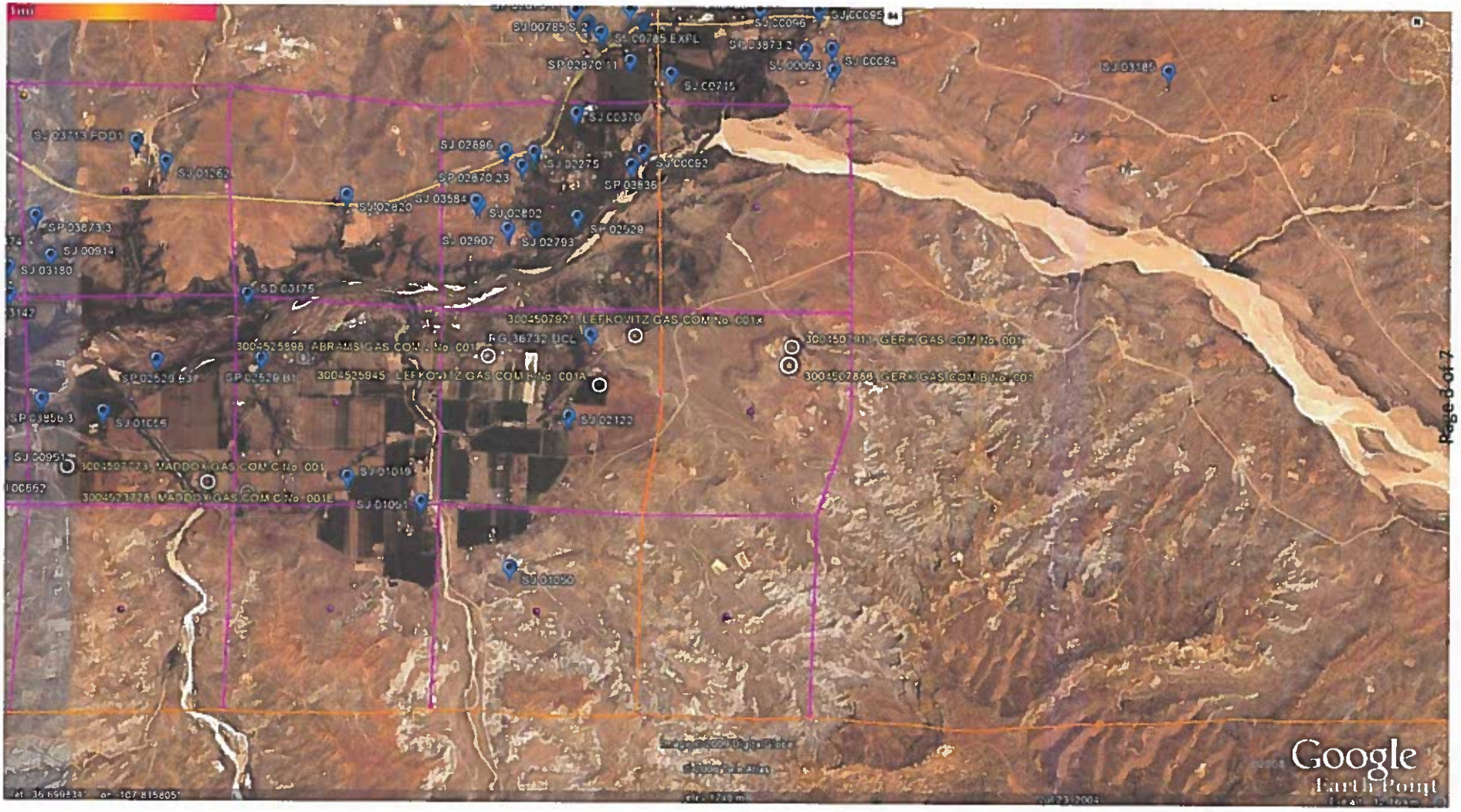
Site Specific Hydrogeology

Depth to groundwater is estimated to be less than 50 feet. This estimation is based on data from Stone and others (1983), the USGS Groundwater Atlas of the United States and depth to groundwater data published on the New Mexico State Engineer's iWaters

Database website. Local topography and proximity to surface hydrologic features are also taken into consideration.

Aquifers within the valley fill are generally extremely shallow and surrounding groundwater well information confirms this fact. Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. Wells located at similar distances from the San Juan River contain groundwater at depths ranging from 4 to 50 feet.


JUAN
RIVER
HAMMOND
DITCH
Page 4 of 7
Google


SJ 00785 S 2
SJ 00785 EXPL
SJ CC096
SJ CCC95
SJ CCC94
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SJ 01262
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SJ 02275
SJ CCC92
SP 03536
SJ 02820
SJ 03584
SJ 02802
SJ 02907
SJ 02793
SJ 00914
SJ 03180
SD 03175
3004507931 LEFKOWITZ GAS COM No 001A
3004525898 ABRAMS GAS COM No 001
3004525945 LEFKOWITZ GAS COM B No 001A
3004507858 GERK GAS COM B No 001
SJ 01015
SJ 02122
SJ 00951
3004507773 MADDOX GAS COM C No 001
3004523778 MADDOX GAS COM C No 001E
SJ 01019
SJ 01051
SJ 01050
Google
Earth Point

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 30N Range: 09W Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) ○ Non-Domestic ○ Domestic ● All

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POD / SURFACE DATA REPORT 12/20/2008

(acre ft per annum) (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) X Y are in Feet UTM are in Meters)

DB File Nbr	Use	Diversion	Owner	POD Number	Source	Tws	Rng	Sec	q	q	q	Zone	X	Y	UTM_Zone	Easting	Northing	Start Date	Finish Date	Depth Well
SJ 00009	IND	0	U.S. GOVERNMENT	SJ 00009	Shallow	30N	09W	06	3						13	248261	4080567	03/30/1953	04/05/1953	396
SJ 00091	DOM	6	DULCENIA I. ALCON	SJ 00091	Shallow	30N	09W	35	3	2	2				13	254455	4072563		12/31/1960	34
SJ 00140	PUB	3	N.M. STATE HWY DEPT	SJ 00140		30N	09W	25	1						13	255769	4074625			10
SJ 00205	OFM	2	BURLINGTON RESOURCES OIL & GAS	SJ 00205	Shallow	30N	09W	12	3						13	255893	4078627			
SJ 00459	DOM	0	GERALD ULIBARRI	SJ 00459		30N	09W	35	1	4					13	254358	4072853			
SJ 00463	DOM	0	GILBERT GURULE	SJ 00463		30N	09W	35	2	4					13	255161	4072836			
SJ 01330	IRR	24	AMADOR GONZALES	SJ 01330	Shallow	30N	09W	36	1	1	2				13	255654	4073322		12/31/1958	20
SJ 01823	DOM	3	RAY MOBLEY	SJ 01823		30N	09W	26	4	4					13	255157	4073621			
SJ 02092	MUL	3	WILLIAM H. SCHOFIELD	SJ 02092	Shallow	30N	09W	33	4	4	4				13	252048	4072066	10/27/1986	10/28/1986	32
SJ 02170	DOM	3	FRANKIN A. HANCOCK	SJ 02170	Shallow	30N	09W	35	1	4	3				13	254257	4072752	04/25/1988	04/28/1988	20
SJ 02298	DOM	3	SAN JUAN SHRINE CLUB	SJ 02298	Shallow	30N	09W	36	3						13	255777	4072235	09/27/1990	09/28/1990	15
SJ 02744	DOM	3	TED GRZYBOWSKI	SJ 02744	Shallow	30N	09W	25	2	4	4				13	256992	4074273	08/20/1996	08/22/1996	21
SJ 03565	DOM	0	CRISTOBAL S. GURULE	SJ 03565		30N	09W	35	2	4	3				13	255060	4072735			20
SP 04305	NRT	0	SOUTHWEST WATER DISPOSAL	SP 04305		30N	09W	32	3	4					13	249536	4072253			

Record Count: 14

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 29N Range: 10W Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) ○Non-Domestic ○Domestic ◉All

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WATER COLUMN REPORT 08/08/2008

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are biggest to smallest)

POD Number	Tws	Rng	Sec	q	q	q	Zone	X	Y	Depth Well	Depth Water	Water Column (in feet)
RG 36732 DCL	29N	10W	25	2						500	450	50
SJ 00785 S	29N	10W	04	2	4	2				20		
SJ 00680	29N	10W	13	2	2					40	10	30
SJ 00785 NEW	29N	10W	13	4						60	20	40
SJ 00785 S-2	29N	10W	13	4						60	20	40
SJ 03023	29N	10W	18	1	3	1				90	65	25
SJ 03502	29N	10W	18	1	3	1				150		
SJ 03081	29N	10W	18	3	1	4				20		
SJ 02078	29N	10W	19	3	1	1				40	9	31
SJ 00303	29N	10W	19	3	3					20	5	15
SJ 02860	29N	10W	19	4	4	4				21	2	19
SJ 02900	29N	10W	20	3	1	2				70		
SJ 01140	29N	10W	20	3	2	2				25	6	19
SJ 01990	29N	10W	20	4	1					40	12	28
SJ 02548	29N	10W	20	4	4					12	2	10
SJ 02547	29N	10W	20	4	4					12	2	10
SJ 03535	29N	10W	21	3	2	3				15		
SJ 03455	29N	10W	21	3	3	1				20	17	3
SJ 03456	29N	10W	21	3	3	2				20	17	3
SJ 03441	29N	10W	21	4	3	3				40	30	10
SJ 03470	29N	10W	21	4	3	4				20	7	13

SJ 01474	29N	10W	21	4	4				25		
SJ 03180	29N	10W	21	4	4	4			50	15	35
SJ 03713 POD1	29N	10W	22	2	3				265	20	245
SJ 02820	29N	10W	23	4	1	1			82	16	66
SJ 02896	29N	10W	24	1	4	1			110	34	76
SJ 02275	29N	10W	24	1	4	2			40	20	20
SJ 00092	29N	10W	24	2	4	2			33		
SJ 02802	29N	10W	24	3	1	2			132	30	102
SJ 02907	29N	10W	24	3	2	3			60		
SJ 02122	29N	10W	25	4	1				60	12	48
SJ 01019	29N	10W	26	4	3	3			50	4	46
SJ 01056	29N	10W	27	3	2				50	31	19
SJ 02216	29N	10W	28	1	2				30	7	23
SJ 03582	29N	10W	28	1	3	3			10	4	6
SJ 02151	29N	10W	28	2	1	2	W	484600 2075600	37	20	17
SJ 03652	29N	10W	28	2	2	1			34	6	28
SJ 03142	29N	10W	28	2	2	2			38	22	16
SJ 03637	29N	10W	28	2	3	1			21	10	11
SJ 03582 POD2	29N	10W	28	2	3	3			28	5	23
SJ 02840	29N	10W	28	3	4	1			55	32	23
SJ 00506	29N	10W	28	4	3				78	55	23
SJ 00662	29N	10W	28	4	4	3			93	70	23
SJ 00497	29N	10W	29	3	2	3			85	35	50
SJ 03777 POD1	29N	10W	29	4	4	2		270344 2071311	100	50	50
SJ 00473	29N	10W	30	2	4				58	10	48
SJ 03743 POD1	29N	10W	33	4	4	3			490	140	350
SJ 01051	29N	10W	35	2	2	2			90	30	60
SJ 01050	29N	10W	36	1	4				85	38	47

Record Count: 49

New Mexico Office of the State Engineer
POD Reports and Downloads

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NAD27 X: Y: Zone: Search Radius:

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POD / SURFACE DATA REPORT 12/20/2008

(acre ft per annum) (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) X Y are in Feet UTM are in Meters)

DB File Nbr	Use	Diversion	Owner	POD Number	Source	Tws	Rng	Sec	q	q	q	Zone	X	Y	UTM_Zone	Easting	Northing	Start Date	Finish Date	Depth Well
RG 31033	DOM	0	RICK SCHOFIELD	RG 31033		29N	09W	10	1	4					13	252818	4069734			
SD 00079	IRR	0	HAMMOND DITCH	SP 02475 A		29N	09W	08	1	1					13	249182	4070274		08/09/1962	
SD 00199	IRR	0	HAMMOND-CREAMER DITCH COMPANY	SP 02475 A		29N	09W	08	1	1					13	249182	4070274		08/09/1962	
SD 01746	IRR	0	U.S. DEPT. OF THE INTERIOR	SD 01746		29N	09W	08	1	1					13	249182	4070274			
SD 01962	IRR	0	ALCARIO N. LOBATO	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559	IRR	0	TURLEY (MANZANARES) DITCH	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 1	IRR	44.244	A.D. LOBATO	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 10	IRR	36.3	EMILIO CHAVEZ	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 10A	IRR	0	IRVIN PABLO	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 11	IRR	52.83	CHARLES R. GOTT, ET UX	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 11A	IRR	0	BLANCO MUTUAL DOMESTIC CO-OP	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 11B	IRR	0.35	JANIS TAFOYA	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 12	IRR	105.2	BENJAMIN GUTIERREZ	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 13	IRR	2.3	CATHOLIC CHURCH	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 1A	IRR	1.897	SAN JUAN COUNTY	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 1B	IRR	3.088	JANE M. YBARRA	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 1BA	IRR	1.267	FRANK A. EDMONSON, III	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 1C	IRR	1.43	LEON L. SUYDAM	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 1D	IRR	4.575	KIRK PALMER	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 1E	IRR	1.5	WILLIAM C. BAILEY	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 1F	IRR	1.258	WALTER G. BUSH	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 1FA	IRR	1.487	HAROLD B. BUSH	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 1G	IRR	1.716	PATRICIA D. JOHNSTON	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 1H	IRR	2.288	DONNIE H. MCCLURE	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 1I	IRR	1.4	WILLIAM MORRIS	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 1J	IRR	1.43	ONA LEE SHINDLEDECKER	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 1K	IRR	1.43	JOHN A. SHINDLEDECKER	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 1L	IRR	1.43	RICHARD & BONNIE SIMMONS TRUST	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 1M	IRR	1.3	DALE PLUMB	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 1N	IRR	2.86	DICK M. ROBERTS	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 1O	IRR	1.2	EMILY G. NORMAN	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 1P	IRR	1.4	ROBERT D. BARACKER	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 1Q	IRR	1.716	CARL T. ARCHER	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 1R	IRR	1.144	CARL F. AVERILL	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 1S	IRR	1.43	BILLY W. SULLIVAN	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 2	IRR	131	JOSE E. CHAVEZ	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 3	IRR	45.7	H.L. KENDRICK	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 4	IRR	36.6	H.L. KENDRICK	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 5	IRR	13.1	TERESA CHAVEZ	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 6	IRR	28.6	BENITO ARCHULETA	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 6A	IRR	0	TRUETT C. JAMES	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 7	IRR	28.6	JOSE ARCHULETA	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 7A	IRR	0	TRUETT C. JAMES	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 8	IRR	93	GILBERTO LOBATO	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 9	IRR	61.485	A.P. LOBATO	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 9A	IRR	42.915	HAZEL BURRELL	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02559 9B	IRR	0	MARCIA K. ARNOLD	SD 02559		29N	09W	02	2	1					13	254780	4071649			
SD 02666	IRR	0	MARTIN-VALENCIA DITCH	SD 02666		29N	09W	08	3	1					13	249202	4069481			
SD 02666 1	IRR	17.3	ISABEL RODRIGUEZ	SD 02666		29N	09W	08	3	1					13	249202	4069481			
SD 02666 2	IRR	45.2	JOHN MARTIN	SD 02666		29N	09W	08	3	1					13	249202	4069481			
SD 02666 3	IRR	53.6	PASQUAL VALENCIA	SD 02666		29N	09W	08	3	1					13	249202	4069481			
SD 06527	IRR	266.1	ANN SULLIVAN	SP 02475 A		29N	09W	08	1	1					13	249182	4070274		08/09/1962	
SJ 00093	DOM	3	ROBERT & PATRICIA BACA	SJ 00093	Shallow	29N	09W	18	4	4	4				13	248836	4067392		08/29/1975	155

SJ 00094	IRR	18	ROBERT & PATRICIA BACA
SJ 00095	IRR	560	ERNEST D. VALENCIA
SJ 00096	IRR	0	ERNEST D. VALENCIA
SJ 00097	IRR	0	ERNEST D. VALENCIA
SJ 00098	IRR	0	ERNEST D. VALENCIA
SJ 00099	IRR	0	ERNEST D. VALENCIA
SJ 00100	IRR	0	ERNEST D. VALENCIA
SJ 00101	IRR	0	ERNEST D. VALENCIA
SJ 00102	IRR	13	ROBERT BAIRD
SJ 00106	DOM	0	FILIBERTO VALENCIA
SJ 00436	DOM	3	EVANGELINA TRUJILLO
SJ 00464	DOM	0	CHRIS S. GURULE
SJ 00584	DOM	3	GILBERT A. MONTOYA
SJ 00715	DOM	3	ELDON D. RODRIGUEZ
SJ 00752	DOM	3	MAURICE E. RICHARDS
SJ 00785	MDW	115.912	BLANCO MDWCA
SJ 01066	DOM	3	LAWRENCE D. MILLER
SJ 01067	DOM	3	ELINEOR ROBERTS
SJ 01093	DOM	3	JESS DEAN
SJ 01113	DOM	3	U. J. LOBATO
SJ 01176	DOM	3	RICHARD VALENCIA
SJ 01183	DOM	3	G. R. WILLIAMS
SJ 01203	DOM	3	R. L. HOSTETLER
SJ 01210	DOM	3	JAMES W. VESTAL
SJ 01232	DOM	3	MAURICE RICHARDS
SJ 01321	DOM	3	WILLIAM R. CALDWELL
SJ 01392	DOM	3	JAMES C. HALL
SJ 01430	DOM	3	TONY VALLEJOS
SJ 01460	DOM	3	DOROTHEE DRURY
SJ 01494	DOM	3	DON & LISA NORTON
SJ 01579	DOM	3	RICHARD M. SIMMONS
SJ 01611	DOM	0	U. J. LOBATO
SJ 01772	DOM	3	LEE M. VALENCIA
SJ 01813	DOM	3	ELDON D. RODRIGUEZ
SJ 01829	DOM	3	ORLANDO A. RODRIQUEZ
SJ 01830	DOM	3	ORLANDO A. RODRIQUEZ
SJ 01867	DOM	3	DOUGLAS P. SHORT
SJ 01874	DOM	3	C. B. BOWEN
SJ 01983	DOM	3	EMILY NORMAN
SJ 02019	DOM	3	ODIS SIKES
SJ 02096	DOM	3	DONALD WILEY
SJ 02103	DOM	3	IRVIN PABLO
SJ 02104	DOM	3	MICHAEL A. HARRIS
SJ 02108	DOM	3	EVA JO KYLE
SJ 02155	DOM	3	ISAAC LOBATO
SJ 02279	DOM	3	CHRIS GURULE
SJ 02284	DOM	0	JACK L. MOORE
SJ 02285	DOM	3	STEVE SHOUSE
SJ 02303	DOM	3	DALE PLUME
SJ 02324	DOM	3	JOHN R. & JANICE I. ECKLEY
SJ 02346	DOM	3	MAGDALENA C. DURAN
SJ 02347	DOM	3	OLIVER & ONA SHINDLEDECKER
SJ 02369	MDW	4	TURLEY MDWCA
SJ 02376	MUL	3	TURLEY MDWCA
SJ 02469	DOM	3	HAROLD B. BUSH
SJ 02470	DOM	3	WALTER G. BUSH
SJ 02478	DOM	3	SIMON A. BERGAUER
SJ 02492	DOM	3	DONALD E. HABRY
SJ 02554	DOM	3	MIKE AND COSETTE CLARK
SJ 02567	DOM	3	DAN L. & HELEN L. TAYLOR
SJ 02600	DOM	3	ROBERT G. OLSEN
SJ 02671	DOM	3	LYNN DOHNER
SJ 02677	DOM	3	GARY DEUEL
SJ 02822	DOM	3	ERROL WOODBURY
SJ 02883	DOM	3	KENNETH W. JOINER
SJ 02910	DOM	3	ERNEST D. VALENCIA
SJ 02946	DOM	3	RONALD KEMEN
SJ 03003	DOM	3	RICHARD M. SIMMONS
SJ 03044	DOM	3	LEONARD J. LOPEZ
SJ 03080	DOM	3	ROBERT BARACKER
SJ 03092	DOM	3	BILLY HANGUM
SJ 03110	DOM	3	PAUL A. GLOVER
SJ 03127	DOM	3	MARIO ULIBARRI
SJ 03138	DOM	3	RACHEL A. MARGO
SJ 03182	DOM	3	MOLLY BONDON
SJ 03185	DOM	3	MARCIA MAGEE
SJ 03200	DOM	3	JOHN BECKSTED

SJ 00094	Shallow	29N	09W	18	4	4	2				13	248836	4067592		03/31/1974	15
SJ 00095	Shallow	29N	09W	18	4	2					13	248743	4067896		05/31/1975	16
SJ 00096	Shallow	29N	09W	18	4	2					13	248743	4067896		05/31/1975	16
SJ 00097	Shallow	29N	09W	18	2	4					13	248749	4068299		05/31/1975	16
SJ 00098	Shallow	29N	09W	18	2	4					13	248749	4068299		05/31/1975	16
SJ 00099	Shallow	29N	09W	18	2	4					13	248749	4068299		05/31/1975	16
SJ 00100	Shallow	29N	09W	18	4	1					13	248299	4067916		05/31/1975	16
SJ 00101	Shallow	29N	09W	18	2	4					13	248749	4068299		05/31/1975	16
SJ 00102	Shallow	29N	09W	09	1	2	1				13	251110	4070288		05/23/1975	20
SJ 00106		29N	09W	08	3	1	3				13	249101	4069380			
SJ 00436	Shallow	29N	09W	08	1	3					13	249192	4069879	09/26/1977	10/03/1977	150
SJ 00464		29N	09W	09	1	1					13	250805	4070201			
SJ 00584	Shallow	29N	09W	06	3	4					13	247806	4070692	03/14/1978	03/17/1978	143
SJ 00715		29N	09W	18	3	3	3				13	247613	4067438			
SJ 00752		29N	09W	02	1	3					13	253979	4071252			
SJ 00785	Shallow	29N	09W	07	3	4	2				13	247960	4069216	02/28/1985	02/28/1985	60
SJ 01066	Shallow	29N	09W	02	1	1	4				13	254065	4071558	11/20/1979	11/27/1979	25
SJ 01067	Shallow	29N	09W	02	1	1	4				13	254065	4071558	11/27/1979	11/29/1979	25
SJ 01093		29N	09W	03	2	4					13	253589	4071273			
SJ 01113		29N	09W	03	2	2	4				13	253670	4071580			
SJ 01176	Shallow	29N	09W	08	1	1					13	249182	4070274	07/11/1980	07/23/1980	150
SJ 01183	Shallow	29N	09W	02	1	1	4				13	254065	4071558	06/13/1980	06/16/1980	24
SJ 01203	Shallow	29N	09W	02	1	3	1				13	253878	4071351	06/21/1980	06/22/1980	25
SJ 01210	Shallow	29N	09W	02	1	3	1				13	253878	4071351	07/08/1980	07/09/1980	26
SJ 01232	Shallow	29N	09W	02	1	3					13	253979	4071252	07/30/1980	08/01/1980	25
SJ 01321		29N	09W	02	1	2					13	254373	4071654			
SJ 01392	Shallow	29N	09W	02	1	3	2				13	254078	4071351	05/22/1981	05/25/1981	25
SJ 01430	Shallow	29N	09W	02	1	3	1				13	253878	4071351	05/28/1981	05/29/1981	24
SJ 01460	Shallow	29N	09W	02	1	3	1				13	253878	4071351	08/21/1981	08/24/1981	19
SJ 01494	Shallow	29N	09W	03	2	2					13	253571	4071681	10/22/1981	10/23/1981	12
SJ 01579	Shallow	29N	09W	02	1	3	2				13	254078	4071351	06/01/1982	06/03/1982	25
SJ 01611		29N	09W	03	4	1					13	253220	4070901			
SJ 01772		29N	09W	08	1	3	2				13	249291	4069978			
SJ 01813		29N	09W	18	3	1	1				13	247623	4068041			
SJ 01829		29N	09W	18	1	2					13	247864	4068728			
SJ 01830		29N	09W	18	2	1					13	248307	4068712			
SJ 01867	Shallow	29N	09W	02	1	3	2				13	254078	4071351	07/23/1984	07/25/1984	25
SJ 01874	Shallow	29N	09W	02							13	254652	4071064	07/30/1984	07/31/1984	28
SJ 01983	Shallow	29N	09W	02	1						13	254180	4071453	07/16/1985	07/16/1985	25
SJ 02019		29N	09W	18	4	1					13	248299	4067916			
SJ 02096	Shallow	29N	09W	02	1	1	4				13	254065	4071558	10/24/1986	10/25/1986	27
SJ 02103	Shallow	29N	09W	03	1	3					13	252397	4071340	12/20/1986	12/23/1986	21
SJ 02104		29N	09W	02	1						13	254180	4071453			
SJ 02108		29N	09W	02	1						13	254180	4071453			
SJ 02155		29N	09W	03	1	2		W	518800	2104200	13	252831	4074356			
SJ 02279	Shallow	29N	09W	09	1	1	4				13	250904	4070100	06/01/1990	06/03/1990	30
SJ 02284		29N	09W	02	1	4	1				13	254292	4071349			
SJ 02285		29N	09W	06	4	1					13	248356	4071087			
SJ 02303		29N	09W	02	1						13	254180	4071453			
SJ 02324		29N	09W	03	3	2	3				13	252718	4070823			
SJ 02346	Shallow	29N	09W	02	1						13	254180	4071453	09/15/1991	09/17/1991	25
SJ 02347	Shallow	29N	09W	02	1						13	254180	4071453	09/18/1991	09/21/1991	25
SJ 02369	Shallow	29N	09W	03	1	2	4				13	252874	4071624	12/31/1966	12/31/1966	23
SJ 02369 CLW	Shallow	29N	09W	03	1	2	4				13	252874	4071624	04/20/1992	04/22/1992	13
SJ 02376	Shallow	29N	09W	03	1	2	4				13	252874	4071624	04/20/1992	04/22/1992	13
SJ 02469		29N	09W	02	1	3	1				13	253878	4071351			
SJ 02470		29N	09W	02	1	3	1				13	253878	4071351			
SJ 02478	Shallow	29N	09W	02	1	1	3				13	253865	4071558	07/13/1993	07/15/1993	16
SJ 02492	Shallow	29N	09W	02	1	1	3				13	253865	4071558	09/16/1993	09/17/1993	13
SJ 02554	Shallow	29N	09W	04	2	1	4				13	251664	4071674	10/10/1976	10/12/1976	13
SJ 02567	Shallow	29N	09W	03	2	4	1				13	253488	4071372	07/26/1994	07/26/1994	14
SJ 02600	Shallow	29N	09W	02	1	4	3				13	254292	4071149	01/04/1995	01/04/1995	18
SJ 02671		29N	09W	07	4	4	2				13	248860	4069194			
SJ 02677	Shallow	29N	09W	02	1	1	3				13	253865	4071558	05/01/1996	05/01/1996	21
SJ 02822		29N	09W	08	1	1	3				13	249081	4070173			100
SJ 02883	Shallow	29N	09W	16	2	3	3				13	251496	4068078	07/20/1998	07/31/1998	123
SJ 02910		29N	09W	18	4	2	1				13	248642	4067995			20
SJ 02946	Shallow	29N	09W	03	4	2	1				13	253516	4070978	08/20/1999	10/20/1999	95
SJ 03003	Shallow	29N	09W	02	1	3	2				13	254078	4071351	08/17/2000	08/20/2000	19
SJ 03044		29N	09W	02	1	1	2				13	254065	4071758			10
SJ 03080	Shallow	29N	09W	02	1	3					13	253979	4071252	11/25/2001	12/10/2001	35
SJ 03092	Shallow	29N	09W	05	4	1	1				13	249875	4071132	07/03/2001	07/03/2001	40
SJ 03110		29N	09W	05	2	2	3				13	250253	4071718			250
SJ 03127	Shallow	29N	09W	02	2	1	2				13	254879	4071748	09/26/2001	10/01/2001	17
SJ 03138	Shallow	29N	09W	02	1	1	1				13	253865	4071758	04/02/2002	04/06/2002	11
SJ 03182	Shallow	29N	09W	05	4	1	1				13	249875	4071132	09/21/2002	09/23/2002	42
SJ 03185	Shallow	29N	09W	16	3	4	4				13	251290	4067283	05/28/2002	06/01/2002	220
SJ 03200	Shallow	29N	09W	03	3	1	1				13	252316	4071045	08/05/2002	08/12/2002	28

SJ 03253	DOM	3	BILLY SULLIVAN	SJ 03253	Shallow	29N	09W	02	1	3	2			13	254078	4071351	04/09/2003	04/09/2003	16
SJ 03300	DOM	3	ALLEN ADKINS	SJ 03300	Shallow	29N	09W	03	2	2	2			13	253670	4071780	11/25/2002	11/25/2002	21
SJ 03362	DOM	3	CHARLES WHITE	SJ 03362	Shallow	29N	09W	03	2	2	4			13	253670	4071580	11/20/2003	12/20/2003	38
				SJ 03362 POD2	Shallow	29N	09W	03	2	2	4			13	253670	4071580	08/08/2005	08/08/2005	21
SJ 03389	DOM	3	ERIC HIRCOCK	SJ 03389		29N	09W	07	4	4	2			13	248860	4069194			20
SJ 03396	DOM	3	LEONARD J. LOPEZ	SJ 03396	Shallow	29N	09W	02	1	1	2			13	254065	4071758	07/21/2003	07/21/2003	10
SJ 03428	DOM	3	ROCKY DE HERRERA	SJ 03428	Shallow	29N	09W	18	2	2	4			13	248854	4068596	10/17/2003	10/17/2003	21
SJ 03430	DOM	3	SHARON DOUGLAS	SJ 03430	Shallow	29N	09W	18	2	2	1			13	248654	4068796	03/08/2004	03/08/2004	21
SJ 03466	DOM	3	LONNIE TRUJILLO	SJ 03466	Shallow	29N	09W	04	2	1	3			13	251464	4071674	05/28/2004	05/31/2004	40
SJ 03490	STK	3	JAMES CLARK	SJ 03490	Shallow	29N	09W	04	1	1	3			13	250658	4071702	02/10/2005	02/10/2005	42
SJ 03491	DOM	0	MARY WILLIAMS	SJ 03491		29N	09W	04	1	1	3			13	250658	4071702			70
SJ 03530	DOM	0	JOHN DOEBLER	SJ 03530		29N	09W	04	1	4	1			13	251079	4071482			30
SJ 03531	STK	0	JOHN LOEBLER	SJ 03531		29N	09W	04	1	4	1			13	251079	4071482			30
SJ 03534	DOM	3	JACKIE VALENCIA	SJ 03534	Shallow	29N	09W	08	3	1	3			13	249101	4069380	09/20/2005	09/20/2005	41
SJ 03536	DOM	3	WILLIAM HOLCOMB	SJ 03536	Shallow	29N	09W	07	4	4	2			13	248860	4069194	05/10/2005	05/10/2005	19
SJ 03566	DOM	0	CARLOTA GURULE	SJ 03566		29N	09W	04	1	3	4			13	250876	4071297			30
SJ 03599	DOM	3	DANA AVERILL	SJ 03599	Shallow	29N	09W	05	4	1	1			13	249875	4071132	04/22/2005	04/22/2005	42
SJ 03608	DOM	3	ADELBERT E. GROSS	SJ 03608		29N	09W	02	2	2	1			13	255088	4071745			
SJ 03632	DOM	3	ANITA MARTINEZ	SJ 03632	Shallow	29N	09W	02	1	2	2			13	254472	4071753	05/25/2005	05/25/2005	27
SJ 03682	DOM	3	DAVID ARNOLD	SJ 03682		29N	09W	03	2	4	2			13	253688	4071372			
SJ 03687	DOM	3	JULIE CLUFF	SJ 03687 POD1	Shallow	29N	09W	02	1	4	3			13	254292	4071149	01/23/2006	01/24/2006	18
SJ 03692	DOM	3	LINDA A. CARMICHAEL	SJ 03692 POD1	Shallow	29N	09W	02	1	3	3			13	253878	4071151			
SJ 03787	DOM	1	MARILYN WHITE	SJ 03787 POD1		29N	09W	03	2	2	4	274460	2094972	13	253630	4071498			
SJ 03851	DOL	3	BILLY JACK MURRAY	SJ 03851 POD1	Shallow	29N	09W	09	1	2	2	273716	2090921	13	251324	4070330	10/14/2008	10/15/2008	290
SJ 03856	DOL	3	MICHAEL GUSTAFSON	SJ 03856 POD1		29N	09W	03	4	2	2	274451	2093107	13	253585	4070930			60
SP 00240	NOT	0	JAY TURLEY	SD 02559		29N	09W	02	2	1				13	254780	4071649			
SP 00924	IRR	0	RICHARD H. HANNA	SP 00924		29N	09W	08	2					13	250202	4070042			
SP 02121	IRR	0	PASCUAL VALENCIA	SP 02121		29N	09W	08	2	3				13	250001	4069841	01/01/1931	07/02/1938	
SP 02121 A	IRR	0	PASQUAL VALENCIA	SP 02121		29N	09W	08	2	3				13	250001	4069841	01/01/1931	07/02/1938	
SP 02373	IRR	0	HAMMOND INCORPORATED	SP 02373		29N	09W	08	1	1				13	249182	4070274			
SP 02475 A	IRR	535.7	HAMMOND CONSERVANCY DISTRICT	SP 02475 A		29N	09W	08	1	1				13	249182	4070274		08/09/1962	
SP 02553 B	HWY	4.92	SAN JUAN COUNTY	SD 02559		29N	09W	02	2	1				13	254780	4071649			
SP 02593 A	IRR	3405.6	HAMMOND CONSERVANCY DISTRICT	SP 02475 A		29N	09W	08	1	1				13	249182	4070274		08/09/1962	
SP 02648	IND	44	SOUTHERN UNION PROCESSING CO.	SP 02475 A		29N	09W	08	1	1				13	249182	4070274		08/09/1962	
SP 02720	IRR	16.1	DENNIS O. CHAVEZ	SP 02720		29N	09W	18	2	2				13	248755	4068697			
SP 02720 A	IRR	2	JOHN D. NEVES	SP 02720		29N	09W	18	2	2				13	248755	4068697			
SP 02720 AA	IRR	2	ERNEST D. VALENCIA	SP 02720		29N	09W	18	2	2				13	248755	4068697			
SP 02720 B	IRR	2.4	RICHARD R. ARRIGHETTI	SP 02720		29N	09W	18	2	2				13	248755	4068697			
SP 02720 BA	IRR	6	ERNEST D. VALENCIA	SP 02720		29N	09W	18	2	2				13	248755	4068697			
SP 02720 C	IRR	4.8	CHRISTINA L. BRAUN	SP 02720		29N	09W	18	2	2				13	248755	4068697			
SP 02740	IND	16.46	EL PASO NATURAL GAS COMPANY	SP 02740		29N	09W	18	4	1				13	248299	4067916			
SP 02848	IRR	23000	U.S. DEPT. OF THE INTERIOR	SP 02593 1		29N	09W	08	1	1				13	249182	4070274		03/15/1963	
SP 02870 2	IRR	16.17	VICTOR LOBATO	SP 02870 2		29N	09W	18	1	2				13	247864	4068728			
SP 02870 2A	IRR	0	SHARON E. DOUGLAS	SP 02870 2		29N	09W	18	1	2				13	247864	4068728			
SP 02870 2B	IRR	5.76	VIRGIE BAKER	SP 02870 2		29N	09W	16	1	2				13	247864	4068728			
SP 02870 2C	IRR	23.1	ROCKY DEHERRERA	SP 02870 2		29N	09W	18	1	2				13	247864	4068728			
SP 02870 4	IRR	170.64	MILTON ARCHULETA	SP 02870 4		29N	09W	04	3	1				13	250792	4070999			
				SP 02870 4A		29N	09W	05	4	1				13	249976	4071033			
SP 03024	IND	50	SOUTHERN UNION PROCESSING CO.	SP 02475 A		29N	09W	08	1	1				13	249182	4070274		08/09/1962	
SP 03385	OIL	0	SAN JUAN REFINING COMPANY	SP 02475 A		29N	09W	08	1	1				13	249182	4070274		08/09/1962	
SP 03453	IND	0	SAN JUAN BASIN WATER HAULERS	SP 03453 2		29N	09W	18	4	4	1			13	248636	4067592			
SP 03856	OFH	0	AL'S TANKERS, INC.	SP 03856 1		29N	09W	18	4	2	1			13	248642	4067995			
SP 03873	OIL	0	AMOCO PRODUCTION COMPANY	SP 03873 1		29N	09W	04	2	2	3			13	251869	4071660			
				SP 03873 2		29N	09W	18	4	4	1			13	248636	4067592			

Record Count: 185

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POD Reports and Downloads

Township: 29N Range: 08W Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) ○ Non-Domestic ○ Domestic ◉ All

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WATER COLUMN REPORT 08/11/2008

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are biggest to smallest)

POD Number	Tws	Rng	Sec	q	q	q	Zone	X	Y	Depth Well	Depth Water	Water Column (in feet)
SJ 00028	29N	08W	01	2	1	4				606	300	306
SJ 00196	29N	08W	09	3						1624	500	1124
SJ 00003	29N	08W	18	1						525		
SJ 00004	29N	08W	18	1						591	70	521
SJ 03050	29N	08W	18	2	3	2				600		
SJ 00019	29N	08W	21	2						502		
SJ 00005	29N	08W	21	3						606	406	200
SJ 00025	29N	08W	21	3						606	406	200
SJ 00006	29N	08W	26	2						560		

Record Count: 9

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 28N Range: 10W Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) ○ Non-Domestic ○ Domestic ◉ All

POD / Surface Data Report | Avg Depth to Water Report | Water Column Report

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WATER COLUMN REPORT 08/08/2008

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are biggest to smallest)

POD Number	Tws	Rng	Sec	q	q	q	Zone	X	Y	Depth Well	Depth Water	Water Column (in feet)

No Records found, try again

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 28N Range: 09W Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) ○ Non-Domestic ○ Domestic ◉ All

POD / Surface Data Report | Avg Depth to Water Report | Water Column Report

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WATER COLUMN REPORT 08/06/2008

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are biggest to smallest)

POD Number	Tws	Rng	Sec	q	q	q	Zone	X	Y	Depth Well	Depth Water	Water Column (in feet)
SJ 03746 POD1	28N	09W	20	1	2	3				190	40	150
SJ 00018	28N	09W	20	3	1	4				135	71	64
SJ 02800	28N	09W	24	4	2	3				200		

Record Count: 3

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 28N Range: 08W Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) ○ Non-Domestic ○ Domestic ◉ All

POD / Surface Data Report | Avg Depth to Water Report | Water Column Report

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WATER COLUMN REPORT 08/04/2008

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are biggest to smallest)

POD Number	Tws	Rng	Sec	q	q	q	Zone	X	Y	Depth Well	Depth Water	Water Column (in feet)
SJ 02283	28N	08W	14	4	2	1				540	480	60
SJ 00209	28N	08W	17	3	2	1				15		
SJ 00209 -AMENDED-S	28N	08W	17	4	1	1				15		
SJ 00209 S	28N	08W	17	4	1	1				15		15
SJ 00163 S	28N	08W	18	4	4	2				1450	800	650

Record Count: 5

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 30N Range: 10W Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) ○ Non-Domestic ○ Domestic ◉ All

POD / Surface Data Report | Avg Depth to Water Report | Water Column Report

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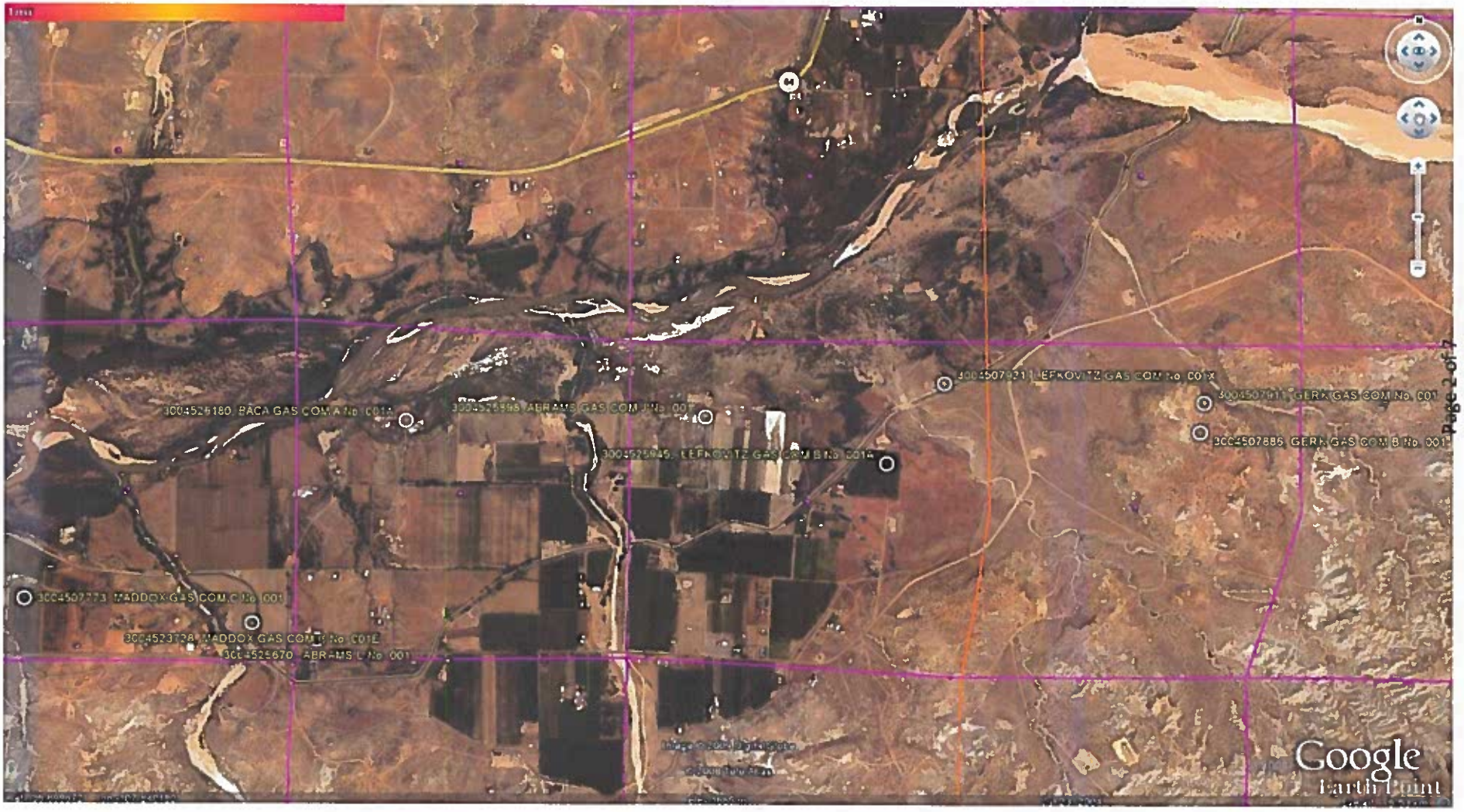
POD / SURFACE DATA REPORT 12/20/2008

(acre ft per annum) (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) X Y are in Feet UTM are in Meters)

DB File Nbr	Use	Diversion	Owner	POD Number	Source	Tws	Rng	Sec	q	q	q	Zone	X	Y	UTM Zone	Easting	Northing	Start Date	Finish Date	Depth Well
SJ 00010	IND	48	BURLINGTON RESOURCES OIL & GAS	SJ 00010	Shallow	30N	10W	24	2						13	247374	4076564	11/17/1953	11/17/1953	292
SJ 00024	IND	0	BURLINGTON RESOURCES OIL & GAS	SJ 00024	Shallow	30N	10W	23	2	4	2				13	246083	4076508	02/03/1953	02/03/1953	305
SJ 00050	IND	52	BURLINGTON RESOURCES OIL & GAS	SJ 00050	Shallow	30N	10W	02	1	3	2				13	245187	4081290	01/13/1954	01/13/1954	520
SJ 00051	NOT	0	U.S. GOVERNMENT	SJ 00051	Shallow	30N	10W	23	2	4	2				13	246083	4076508	02/03/1953	02/03/1953	305
SJ 00197	OFM	60	BURLINGTON RESOURCES OIL & GAS	SJ 00197	Artesian	30N	10W	23	4	2					13	245968	4076007		03/28/1972	975
SJ 00523	DOM	3	DWAIN D. MYERS	SJ 00523	Shallow	30N	10W	08	4	4					13	241292	4078946	12/12/1977	12/15/1977	160
SJ 00589	DOM	3	WILLIAM C. PACE	SJ 00589	Shallow	30N	10W	08	1	1	1				13	240077	4080236	03/20/1978	03/27/1978	175
SJ 00774	DOM	3	TED RUSSELL	SJ 00774	Shallow	30N	10W	08	1	2	1				13	240477	4080231	08/30/1978	09/12/1978	195
SJ 01048	DOM	3	LARRY L. SANDERS	SJ 01048		30N	10W	04	2						13	242856	4081491			
SJ 01059	DOM	3	E. SHUHANY & L. LOSH	SJ 01059	Shallow	30N	10W	34	1	2	4				13	243585	4073570	09/20/1979	09/24/1979	115
SJ 01096	EXP	0	FIRST DIVIDE INVESTMENT CORP.	SJ 01096		30N	10W	17							13	240624	4077934			
SJ 01102	DOM	3	ROBERT JACQUEZ	SJ 01102	Shallow	30N	10W	08	2	4					13	241350	4079731	02/28/1980	03/07/1980	200
SJ 01116	DOM	3	JOSE N. ARELLANO	SJ 01116	Shallow	30N	10W	33	2	1					13	242296	4073713	03/03/1980	03/07/1980	105
SJ 01160	DOM	3	GEORGE W. HEATH	SJ 01160		30N	10W	08	3	1					13	240132	4079326			
SJ 01182	DOM	3	C. J. MITCHELL	SJ 01182	Shallow	30N	10W	34	1	3	3				13	242974	4073183	05/31/1980	06/05/1980	235
SJ 01193	DOM	3	F. W. CORNELL	SJ 01193	Shallow	30N	10W	08	2	2					13	241378	4080123	07/06/1980	07/09/1980	100
SJ 01293	DOM	3	JAMES N. & JOE A. DICKIE	SJ 01293		30N	10W	08	2	2					13	241378	4080123			
SJ 01362	DOM	3	AL LARSON	SJ 01362	Shallow	30N	10W	20	1	3	3				13	239888	4076436	02/08/1982	02/15/1982	238
SJ 01527	DOM	3	JEFFREY J. ALBERS	SJ 01527	Shallow	30N	10W	08	2	2					13	241378	4080123	03/29/1982	04/03/1982	120
SJ 01651	DOM	0	CARL L. FOUST	SJ 01651		30N	10W	03	2						13	244476	4081430			
SJ 02102	DOM	3	RUSSELL D. HOYT	SJ 02102	Shallow	30N	10W	08	1	3	4				13	240254	4079630	11/15/1986	11/19/1986	190
SJ 02316	DOM	3	ERIC MARTIN	SJ 02316	Shallow	30N	10W	08	1	3					13	240155	4079731	05/17/1991	05/21/1991	210
SJ 02648	DOM	3	MIKE COUCH	SJ 02648		30N	10W	08	2	2	3				13	241277	4080022			
SJ 02772	DOM	3	CHARLES M., JR. BAEZ	SJ 02772	Shallow	30N	10W	08	4	2	2				13	241420	4079438	01/10/1997	02/17/1997	200
SJ 02782	DOM	3	RUSSELL L. CLELLAND II	SJ 02782		30N	10W	20	1	4	4				13	240482	4076452			250
SJ 02797	DOM	3	LON B. & KAREN JUDD	SJ 02797		30N	10W	20	2	4	1				13	241073	4076685			70
SJ 02808	DOM	3	TRAVIS & DONNA COLTON	SJ 02808	Shallow	30N	10W	08	2	3	4				13	241050	4079630	03/25/1998	03/26/1998	165
SJ 02998	DOM	3	FRANK E. DART	SJ 02998	Shallow	30N	10W	08	3	3	1				13	240009	4079019	07/29/2000	08/05/2000	260
SJ 03113	DOM	3	BILL & DARCI MOSS	SJ 03113	Shallow	30N	10W	05	4	1	4				13	241126	4080827	07/05/2002	07/06/2002	42
SJ 03230	DOM	3	TONIA GOELZ	SJ 03230	Shallow	30N	10W	03	1	2	1				13	243782	4081752	07/06/2002	07/10/2002	120
SJ 03442	DOM	3	JOAQUIN TALAMANTE	SJ 03442		30N	10W	20	1	4	1				13	240282	4076652			200
SJ 03460	STK	3	HOUSTON LASATER	SJ 03460		30N	10W	02	1	3	2				13	245187	4081290		12/31/1954	520

Record Count: 32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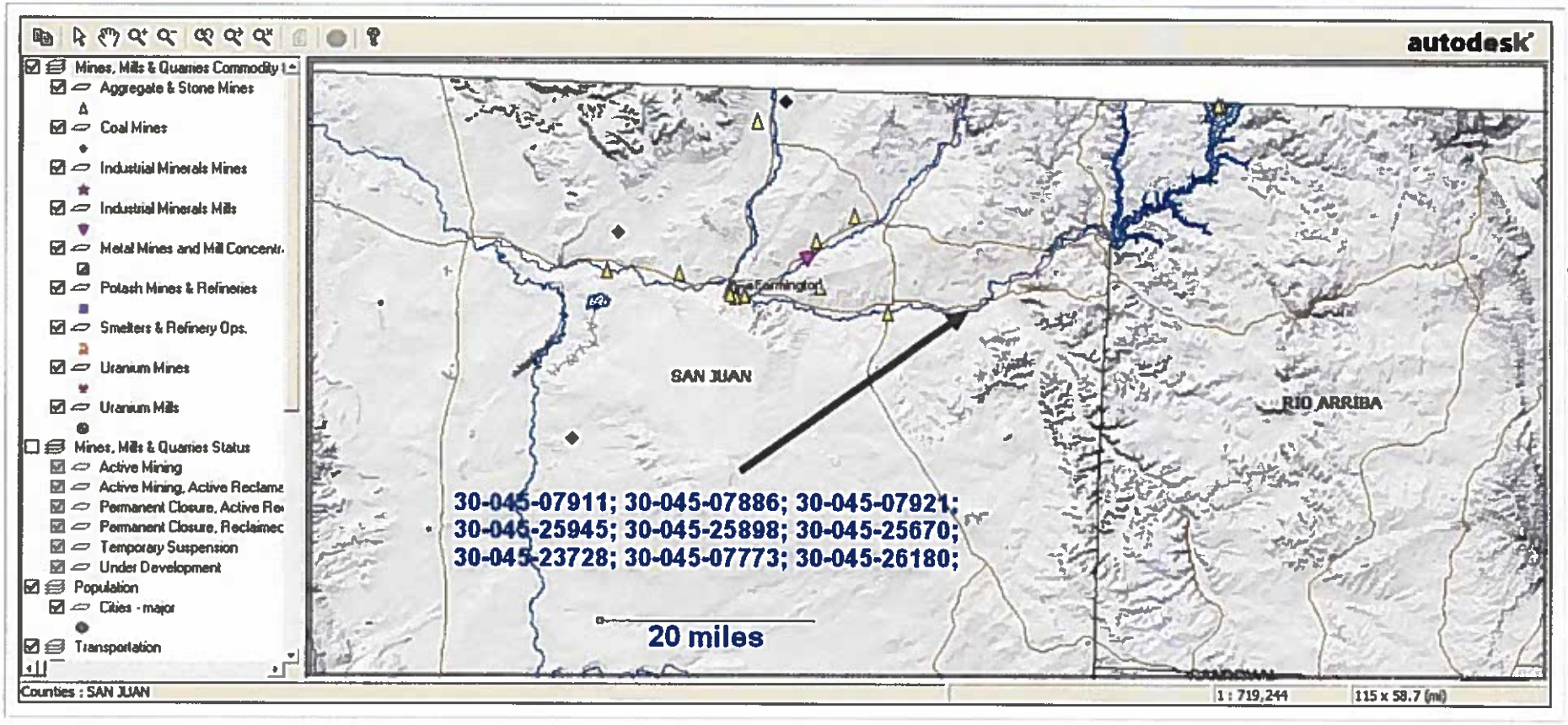
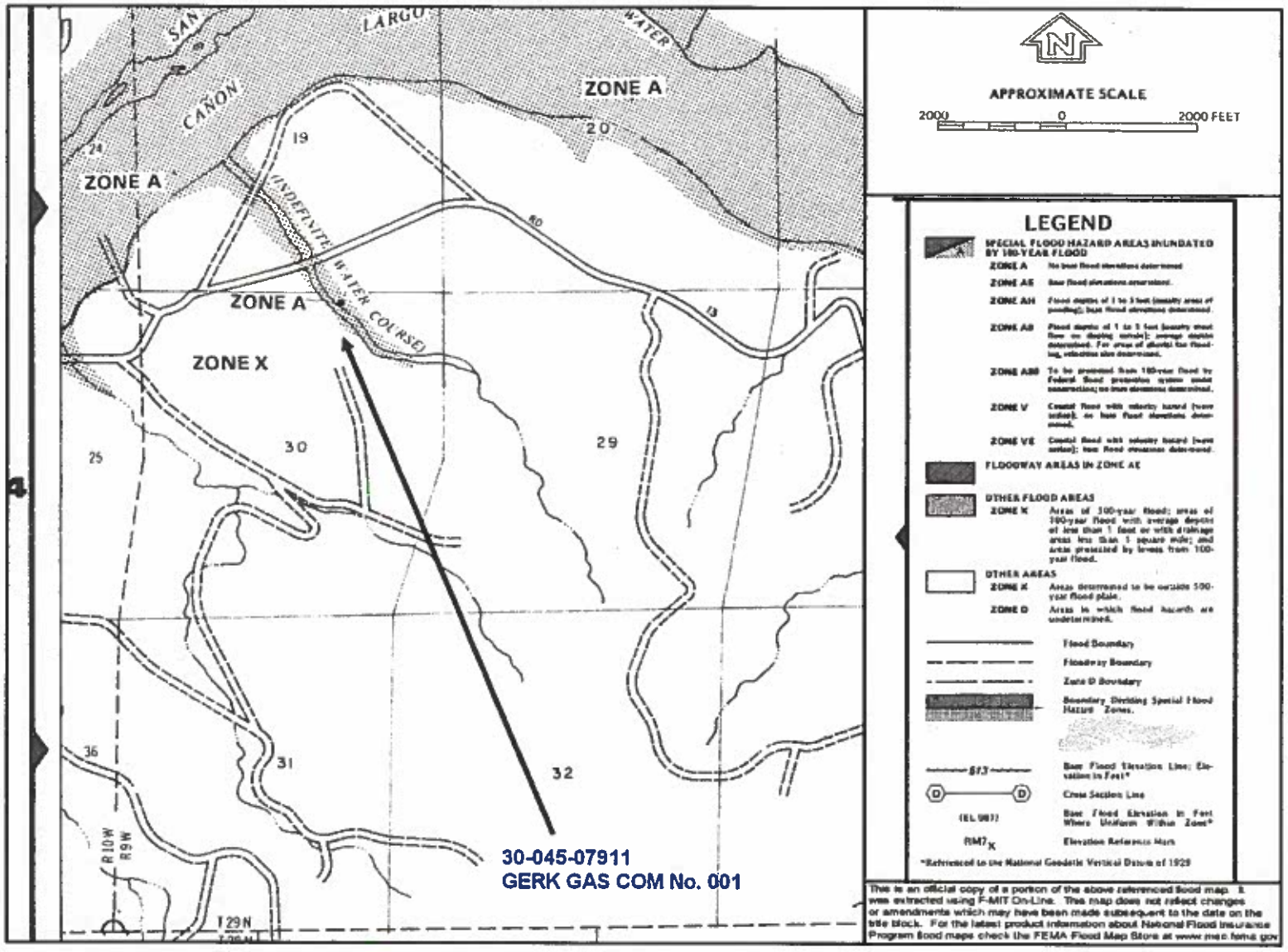
3004525945 LEFKOVITZ GAS COM B No 001H
3004507773 MADDOX GAS COM C No 001
3004523728 MADDOX GAS COM E No 001E
3004525670 ABRAMS L No 001
3004507885 GERK GAS COM B No 001
Google
Earth Point

Mines, Mills and Quarries Web Map



Page 6 of 7


SAN
CAÑON
LARGO
WATER
ZONE A
ZONE A
ZONE A
ZONE X
INDEFINITE WATER COURSE
19
20
24
30
29
25
36
31
32
R10W
R9W
T29N
30-045-07911
GERK GAS COM No. 001
APPROXIMATE SCALE
2000
0
2000 FEET
LEGEND
SPECIAL FLOOD HAZARD AREAS INUNDATED BY 100-YEAR FLOOD
ZONE A
ZONE AE
ZONE AH
ZONE AO
ZONE A99
ZONE V
ZONE VE
FLOODWAY AREAS IN ZONE AE
OTHER FLOOD AREAS
ZONE X
OTHER AREAS
ZONE X
ZONE D
Flood Boundary
Floodway Boundary
Zone D Boundary
Boundary Dividing Special Flood Hazard Zones.
513
Base Flood Elevation Line; Elevation in Feet*
Cross Section Line
(EL 987)
Base Flood Elevation in Feet Where Uniform Within Zone*
RM7 X
Elevation Reference Mark
*Referenced to the National Geodetic Vertical Datum of 1929
This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

XTO Energy Inc.
San Juan Basin (Northwest New Mexico)
General Design and Construction Plan
For Below-Grade Tanks

In accordance with Rule 19.15.17.11 NMAC the following information describes the design and construction of below-grade tanks on XTO Energy Inc. (XTO) locations. This is XTO's standard procedure for all below-grade tanks. A separate plan will be submitted for any below-grade tank which does not conform to this plan.

General Plan

1. XTO will design and construct below-grade tanks to contain liquids and solids and prevent contamination of fresh water and protect public health and environment.

2. XTO will post a well sign, in compliance with 19.15.3.103 NMAC, on the existing well site operated by XTO where the existing below-grade tank is located. The sign will list the Operator on record as the operator, the location of the well site by unit letter, section, township, range, and emergency telephone numbers.

3. XTO is requesting approval of an alternative fencing to be used on below-grade tank locations. Below-grade tank locations will be fenced utilizing 48" steel mesh field-fence (hogwire) with pipe railing along the top. A 6' chain link fence will be utilized around the well pad if the well site is within a city limits or ¼ mile of a permanent residence, school, hospital, institution or church. Below-grade tanks located within 1000' of a permanent residence, school, hospital, institution or church will be fenced by 6' chain link fence with at least two strands of barbed wire at the top. All gates associated with below-grade tanks will remain closed and locked when responsible individuals are not on site.

4. XTO shall construct below-grade tanks with an expanded metal covering or solid vaulted top on the top of the below-grade tank.

5. XTO will ensure that below-grade tanks are constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight. Tanks will be constructed of A36 carbon steel with 3/16" sides and ¼" bottom. (See attached drawing).

6. The below-grade tank system will have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom. Sand bedding (4") will be placed on top of a level foundation to ensure prevention of punctures, cracks or indentations of the liner or tank bottom.

7. XTO will construct a berm and/or diversion ditch in a manner that prevents the collection of surface water run-on. Below-grade tanks will be equipped with automatic high level shut-off devices as well as manually operated shut-off valves. (See attached drawing).

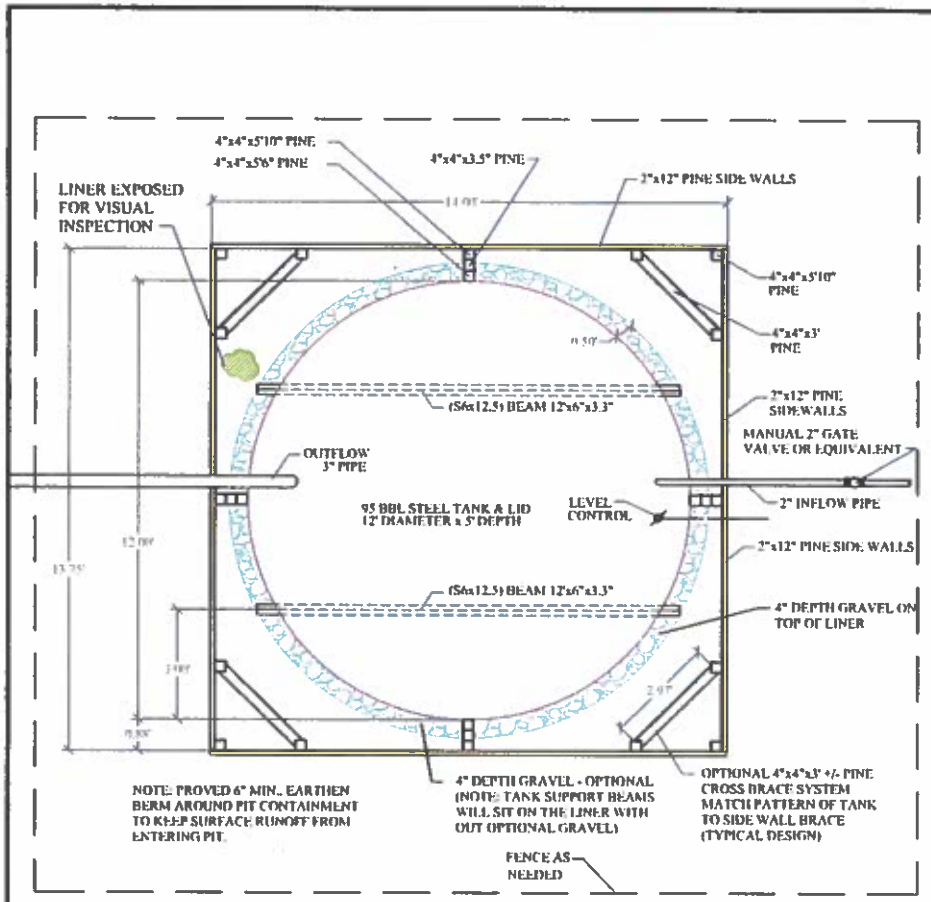
8. XTO will construct and use below-grade tanks that do not have double walls. The below-grade tank sidewalls will be open for visual inspection for leaks. The sidewalls of the cellar will be constructed with 2" X 12" pine sidewalls and 4" X 4" pine brace posts. The below-grade tank

bottom will be elevated a minimum of 6" above the underlying ground surface and the below-grade tank will be underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected. (See attached drawing).

9. XTO will equip below-grade tanks designed in this manner with a properly functioning automatic high-level shut-off control device and manual controls to prevent overflows. (See attached drawing).

10. XTO will demonstrate to the OCD that the geomembrane liner complies with the specifications of Subparagraph (a) of Paragraph (4) of Subsection I of 19.15.17.11 NMAC and obtain approval from OCD prior to the installation of the design. The geomembrane liner shall have a hydraulic conductivity no greater than 1 x 10-9 cm/sec. The geomembrane liner shall be composed of an impervious, synthetic material that is resistant to petroleum hydrocarbons, salts and acidics and alkaline solutions. The liner material shall be resistant to ultraviolet light. Liner compatibility shall comply with EPA SW-846 method 9090A. (See attached drawing).

11. The general specifications for design and construction are attached.



PLAN VIEW

DESIGN INFORMATION

- THE TANK WILL HAVE AN EXPANDED METAL OR SOLID VAULTED TOP WITH VENT PER XTO SITE SPECIFIC DESIGN REQUIREMENTS. BUILT BY TANK SUPPLIER.
- GEOMEMBRANE LINER WILL COMPLY WITH SUBPARAGRAPH (a) OF PARAGRAPH (4) OF SUBSECTION I OF 19.15.17.11 NMAC.
- BASE WILL BE LEVEL AND FREE OF ROCKS, DEBRIS, SHARP EDGES, OR IRREGULARITIES PRIOR TO SAND PLACEMENT.
- THE LEVEL INDICATOR WILL HAVE AN AUTOMATIC SHUT OFF CONTROL FOR THE INLET PIPE AT 28" BELOW TOP OF TANK.

WOOD PARTS LIST FOR SIDEWALLS

- 14 EA 2"x12"x14'
- 14 EA 2"x12"x13' 9"
- 4 EA 4"x4"x5'6"
- 8 EA 4"x4"x5'10"
- 16 EA 4"x4"x3.5"

OPTIONAL CROSS BRACES

- 8 EA 4"x4"x5'10"
- 16 EA 4"x4"x3' +/-

LINER

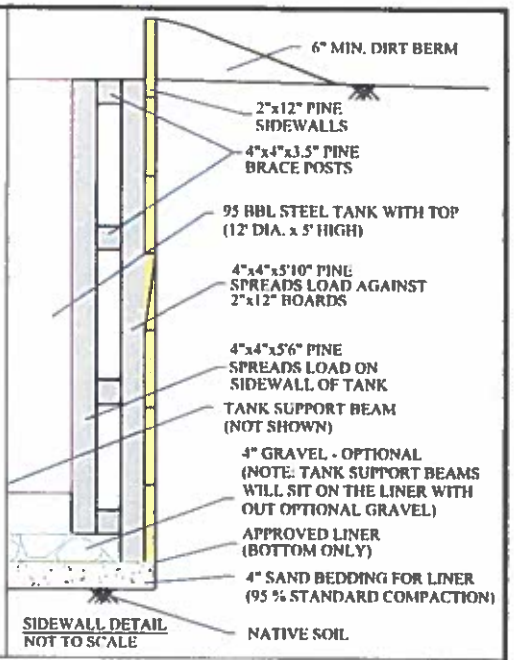
- BOTTOM 13' 6"x13' 6"

TANK A36 CARBON STEEL

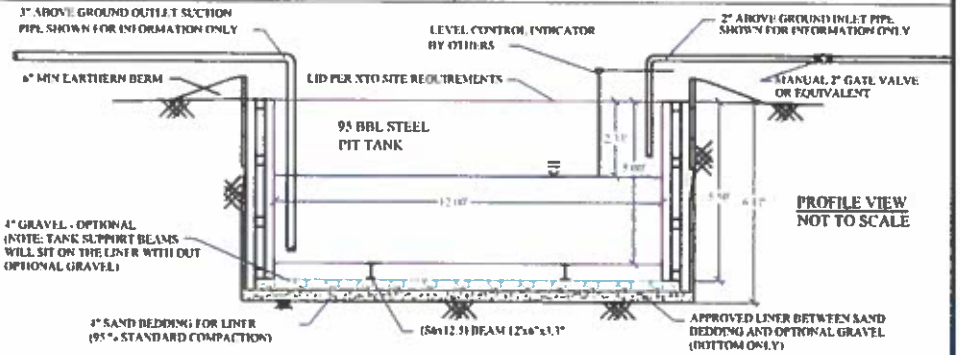
- 3/16" SIDES
- 1/4" BOTTOM

6" PEDESTAL

- 2 EA (S6x12.5) BEAM 12'x6"x3.3" (MORE MAY BE NEEDED IF REQUIRED IN THE FIELD)



SIDEWALL DETAIL
NOT TO SCALE



PROFILE VIEW
NOT TO SCALE

NOTE

DRAFTED PER XTO DESIGN.

HIGH LEVEL SHUT OFF WILL BE SET AT 28" BENEATH TOP OF TANK (AT 53.80 BBL @ SHUT OFF).

OUTER EDGE OF LINER WILL BE LEFT OPEN AND UNOBSTRUCTED TO ALLOW FOR VISUAL INSPECTION OF LINER FOR EVIDENCE OF SPILLS.

ADJUST DIMENSIONS AS NEED TO FIELD FIT TANK IF DIFFERENT THAN SHOWN, IF REQUIRED.

OWNER / OPERATOR:
XTO ENERGY

XTO ENERGY

TYPICAL DESIGN
95 BBL PIT TANK
CONTAINMENT

PROJ NUMBER	DRAWING NUMBER	SCALE
06-0122	XTO PIT TANK	AS SHOWN

XTO Energy Inc.
San Juan Basin (Northwest New Mexico)
General Maintenance and Operating Plan
For Below-Grade Tanks

In accordance with Rule 19.15.17.12 NMAC the following information describes the operation and maintenance of below-grade tanks on XTO Energy Inc. (XTO) locations. This is XTO's standard procedure for all below-grade tanks. A separate plan will be submitted for any below-grade tank which does not conform to this plan.

General Plan

1. XTO will operate and maintain below-grade tanks to contain liquids and solids, maintain the integrity of the liner and secondary containment system, prevent contamination of fresh water and protect public health and the environment. Fluid levels will be monitored weekly and high levels will be removed as necessary. Monthly inspections will be conducted to monitor integrity of below-grade tank systems and below-grade tanks will be equipped with automatic high-level shut-off devices.

2. XTO will not allow below-grade tanks to overflow and will use berms and/or diversion ditch to prevent surface run on to enter the below-grade tank. Below-grade tanks will be equipped with automatic high-level shut-off control devices as well as manually operated shut-off valves. See attached drawing for vault design and placement of diversion berms and shut-off devices.

3. XTO will continuously remove any visible or measurable layer of oil from the fluid surface of below-grade tanks in order to prevent significant accumulation of oil.

4. XTO will inspect the below-grade tank monthly and maintain written records for five years. Monthly inspections will consist of documenting the following: (see attached template),
   - Well Name
   - API #
   - Sec., Twn., Rng.
   - XTO Inspector's name
   - Inspection date and time
   - Visible tears in liner
   - Visible signs of tank overflow
   - Collection of surface run on
   - Visible layer of oil
   - Visible signs of tank leak
   - Estimated freeboard

5. XTO will maintain adequate freeboard to prevent over topping of the below-grade tank. High level shut-off devices control the freeboard at an average of 28" beneath the top of the tank.

6. XTO will not discharge into or store any hazardous waste in any below-grade tank.

7. If a below-grade tank develops a leak, or if any penetration of a below-grade tank occurs below the liquids surface, XTO will remove all liquids above the damage or leak line within 48 hours,

notify the appropriate division district office within 48 hours of the discovery and repair the damage or replace the below-grade tank. If an existing below-grade tank does not meet current requirements of Paragraphs 1-4 of Subsection I of 19.15.17.11 NMAC the tank will be modified or retrofitted to comply. If compliance can not be achieved XTO will implement the approved closure plan.

MONTHLY BELOW GRADE TANK INSPECTION FORM

Well Name: _____ **API No.:** _____

Legals **Sec:** _____ **Township:** _____ **Range:** _____

XTO Inspector's Name	Inspection Date	Inspection Time	Any visible liner tears (Y/N)	Any visible signs of tank overflows (Y/N)	Collection of surface run on (Y/N)	Visible layer of oil (Y/N)	Any visible signs of a tank leak (Y/N)	Freeboard Est. (ft)

Notes: Provide Detailed Description: _____

Misc: _____

XTO Energy Inc.
San Juan Basin (Northwest New Mexico)
General Closure Plan
For Below-Grade Tanks

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure requirements of below-grade tanks on XTO Energy Inc. (XTO) locations. This is XTO's standard procedure for all below-grade tanks. A separate plan will be submitted for any below-grade tank which does not conform to this plan.

General Plan

1. XTO will close below-grade tanks within the time periods provided in 19.15.17.13 NMAC, or by an earlier date that the division requires because of imminent danger to fresh water, public health or the environment.

2. XTO will close a below-grade tank that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years after June 16, 2008, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC.

3. XTO will close a permitted below-grade tank within 60 days of cessation of the below-grade tank's operation or as required by the transitional provisions of Subsection B of 19.15.17.17 NMAC in accordance with a closure plan that the appropriate division district office approves. The closure report will be filed on form C-144.

4. XTO will remove liquids and sludge from below-grade tanks prior to implementing a closure method and will dispose of the liquids and sludge in a division-approved facility. Approved facilities and waste streams include:
   - Envirotech Permit No. NM01-0011 and IEI Permit No. NM 01-0010B
     - Soil contaminated by exempt petroleum hydrocarbons
     - Produced sand, pit sludge and contaminated bottoms from storage of exempt wastes
   - Basin Disposal Permit No. NM01-005
     - Produced water

5. XTO will remove the below-grade tank and dispose of it in a division approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office has approved prior to removal. Any associated liners will be removed, properly cleaned and disposed of per 19.15.9.712 NMAC at San Juan County Landfill. Documentation of the final disposition will be included in the closure report.

6. XTO will remove any on-site equipment associated with a below-grade tank unless the equipment is required for some other purpose.

7. XTO will test the soils beneath the below-grade tank to determine whether a release has occurred. At a minimum 5 point composite sample will be collected along with individual grab samples from any area that is wet, discolored or showing other evidence of a release. Samples will be

analyzed for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 100mg/kg; and the chloride concentration, as determined by EPA method 300.1 or other EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. XTO will notify the division of its results on form C-141.

8. If XTO or the division determines that a release has occurred, XTO will comply with 19.15.3.116 NMAC and 19.15.1.19NMAC as appropriate.

9. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Paragraph (4) of Subsection E of 19.15.17.13 NMAC, XTO will backfill the excavation with compacted, non-waste containing, earthen material; construct a division prescribed soil cover; recontour and re-vegetate the site.

10. Notice of Closure operations will be given to the Aztec Division District III office between 72 hours and one week prior to the start of closure activities via email or verbally.
The notification will include the following:
    i. Operator's name
    ii. Well Name and API Number
    iii. Location by Unit Letter, Section, Township, and Range

The surface owner shall also be notified prior to the implementation of any closure operations of below-grade tanks as per the approved closure plan using certified mail, return receipt requested.

11. Re-contouring of location will match fit, shape, line, form and texture of the surrounding area. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be placed in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.

12. A minimum of 4 feet of cover shall be achieved and the cover shall include 1 foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater. Soil cover will be constructed to the site's existing grade and ponding of water and erosion of the cover material will be prevented with drainage control, natural drainages and silt traps where needed.

13. XTO will seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM or Forest Service stipulated seed mixes will be used on federal lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs.

14. All closure activities will include proper documentation and be available for review upon request and will be submitted in closure report form to OCD within 60 days of closure of the below-grade tank. Closure report will be filed on form C-144 and incorporate the following:
    - i. Proof of closure notice to division and surface owner;
    - ii. Details on capping and covering, where applicable;
    - iii. Inspection reports;
    - iv. Confirmation sampling analytical results;
    - v. Disposal facility name(s) and permit number(s);
    - vi. Soil backfilling and cover installation;
    - vii. Re-vegetation application rates and seeding techniques, (or approved alternative to re-vegetation requirements if applicable);
    - viii. Photo documentation of the site reclamation.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 98045

QUESTIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 98045
	Action Type: [C-144] Legacy Below Grade Tank Plan (C-144LB)

QUESTIONS

Facility and Ground Water *Please answer as many of these questions as possible in this group. More information will help us identify the appropriate associations in the system.*	
Facility or Site Name	GERK GAS COM 1
Facility ID (f#), if known	*Not answered.*
Facility Type	Below Grade Tank - (BGT)
Well Name, include well number	GERK GAS COM 1
Well API, if associated with a well	30-045-07911
Pit / Tank Type	*Not answered.*
Pit / Tank Name or Identifier	*Not answered.*
Pit / Tank Opened Date, if known	*Not answered.*
Pit / Tank Dimensions, Length (ft)	*Not answered.*
Pit / Tank Dimensions, Width or Diameter (ft)	*Not answered.*
Pit / Tank Dimensions, Depth (ft)	*Not answered.*
Ground Water Depth (ft)	*Not answered.*
Ground Water Impact	*Not answered.*
Ground Water Quality (TDS)	*Not answered.*

Below-Grade Tank *Subsection I of 19.15.17.11 NMAC*	
Volume / Capacity (bbls)	95
Type of Fluid	Produced Water
Pit / Tank Construction Material	Steel
Secondary containment with leak detection	*Not answered.*
Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	*Not answered.*
Visible sidewalls and liner	*Not answered.*
Visible sidewalls only	*Not answered.*
Tank installed prior to June 18. 2008	True
Other, Visible Notation. Please specify	*Not answered.*
Liner Thickness (mil)	*Not answered.*
HDPE (Liner Type)	*Not answered.*
PVC (Liner Type)	*Not answered.*
Other, Liner Type. Please specify (Variance Required)	*Not answered.*

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QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 98045
	Action Type: [C-144] Legacy Below Grade Tank Plan (C-144LB)

QUESTIONS

Fencing	
Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)	
Chain link, six feet in height, two strands of barbed wire at top *(Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)*	*Not answered.*
Four foot height, four strands of barbed wire evenly spaced between one and four feet	*Not answered.*
Alternate, Fencing. Please specify (Variance Required)	4' steel mesh

Netting	
Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
Screen	*Not answered.*
Netting	*Not answered.*
Other, Netting. Please specify (Variance May Be Needed)	expanded metal or solid vaulted top

Signs	
Subsection C of 19.15.17.11 NMAC (If there are multiple operators at a site, each operator must have their own sign in compliance with Subsection C of 19.15.17.11 NMAC.)	
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	*Not answered.*
Signed in compliance with 19.15.16.8 NMAC	True

Variances and Exceptions	
Justifications and/or demonstrations ofequivalency are required. Please refer to 19.15.17 NMAC for guidance. ***Please check a box if one or more of the following is requested, if not leave blank:***	
Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.	*Not answered.*
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval	*Not answered.*

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QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 98045
	Action Type: [C-144] Legacy Below Grade Tank Plan (C-144LB)

QUESTIONS

Siting Criteria (regarding permitting)

19.15.17.10 NMAC

Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. **Siting criteria does not apply to drying pads or above-grade tanks.**

Siting Criteria, General Siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank	*Not answered.*
NM Office of the State Engineer - iWATERS database search	*Not answered.*
USGS	*Not answered.*
Data obtained from nearby wells	*Not answered.*

Siting Criteria, Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lakebed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark)	No
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption	No

Proposed Closure Method	
Below-grade Tank	Below Grade Tank - (BGT)
Waste Excavation and Removal	*Not answered.*
Alternate Closure Method. Please specify (Variance Required)	*Not answered.*

Operator Application Certification	
Registered / Signature Date	01/12/2009

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Santa Fe, NM 87505

ACKNOWLEDGMENTS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 98045
	Action Type: [C-144] Legacy Below Grade Tank Plan (C-144LB)

ACKNOWLEDGMENTS

☑	I acknowledge that I have received prior approval from the OCD to submit documentation of a legacy below-grade tank on behalf of my operator.
☑	I hereby certify that the information submitted with this documentation is true, accurate and complete to the best of my knowledge and belief.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 98045

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CONDITIONS

Created By	Condition	Condition Date
jburdine	None	8/10/2022