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, MM 87505

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.

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

Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method 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.
Operator: _CDX Gas LLC OGRID #: 222374
Address:2700 Farmington Ave, Building K, Suite #1
Facility or well name:Jicarilla Apache A 2E
API Number:30039225810000 OCD Permit Number:
U/L or Qtr/Qtr0Section18Township26NRange5WCounty:Rio Arriba
Center of Proposed Design: Latitude36.4828 Longitude107.39747 NAD: □1927 ☒ 1983
Surface Owner: Federal State Private Tribal Trust or Indian Allotment
☐ Pit: Subsection F or G of 19.15.17.11 NMAC Temporary: ☐ Drilling ☐ Workover ☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Lined ☐ Unlined Liner type: Thickness
3.
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 RECEIVED
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
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, his straight on a sharph)	iospital,
institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet	
Alternate. Please specify_Four foot hog wire	
7.	
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
Screen □ Netting □ Other	
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 of	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 accep material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the approp	
office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of ap	pproval.
Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying above-grade tanks associated with a closed-loop system.	ng pads or
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.	☐ Yes ⊠ No
(Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	□ NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes ⊠ No
(Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	□ NA
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock	☐ Yes 🖾 No
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	
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	☐ Yes ⊠ No
adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	
Within 500 feet of a wetland.	☐ Yes ⊠ No
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	I tes Za rec
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

Oil Conservation Division

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)
Permanent Pits Permit Application Checklist: 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 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 ₂ S, 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
<u>Proposed Closure</u> : 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 1915 17 13 NMAC

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.1 Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if 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 <i>will not</i> be used for future ser Yes (If yes, please provide the information below) No	vice and operations?
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	С
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 sour provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate dist considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Just demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	rict office or may be
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
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - 1WATERS 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
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 - 1WATERS 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
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plans 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. 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 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	15.17.11 NMAC

Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accurate a	nd complete to the best of my knowledge and belief.
Name (Print):Lee Gardner	Title:HSE Coordinator
Signature: Lee James James 1	Date: 3-27-69
e-mail address:lee.gardner@cdxgas.com	Telephone:505-324-5427
OCD Approval: Permit Application (including closure plan) Closure Plan (c	only) OCD Conditions (see attachment)
OCD Representative Signature: Bull Sell	Approval Date:
Title: Emilio/spee 00	CD Permit Number:
Closure Report (required within 60 days of closure completion): Subsection K of Instructions: Operators are required to obtain an approved closure plan prior to imp The closure report is required to be submitted to the division within 60 days of the consection of the form until an approved closure plan has been obtained and the closure	plementing any closure activities and submitting the closure report. In please do not complete this eactivities. Please do not complete this eactivities have been completed.
	Closure Completion Date:
22. Closure Method: ☐ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative ☐ If different from approved plan, please explain.	Closure Method Waste Removal (Closed-loop systems only)
23. Closure Report Regarding Waste Removal Closure For Closed-loop Systems Tha Instructions: Please indentify the facility or facilities for where the liquids, drilling j two facilities were utilized.	
-	sposal Facility Permit Number:
Disposal Facility Name: Dis	sposal Facility Permit Number:
Were the closed-loop system operations and associated activities performed on or in ar Yes (If yes, please demonstrate compliance to the items below)	reas that will not be used for future service and operations?
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	
Closure Report Attachment Checklist: Instructions: Each of the following items is mark in the box, that the documents are attached.	nust be attached to the closure report. Please indicate, by a check
 □ 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
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report belief. I also certify that the closure complies with all applicable closure requirements	
Name (Print):	Title:
Signature:	Date:
e-mail address:	Telephone:



Hydrogeological Report Jicarilla A #2E 'Peter Kondrat

CDX Gas, LLC Tapicito Project Jicarilla Apache Nation, San Juan Basin

<u>Jicarilla A #2E</u>

Below Grade Tank

Well API: 30039225810000

TWP: 26 N - Range: 5 W - Sec. 18; 1120 FSL 1520 FEL

Siting Criteria Compliance

For Ground water is <u>not</u> less than 50 feet below the bottom the subject location

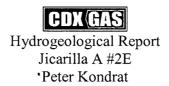
- The subject location is <u>not</u> within 300 feet of a continuously flowing watercourse.
- The subject location is <u>not</u> within 200 feet of any significant watercourse, lakebed, sinkhole or playa lake
- The subject location is <u>not</u> within 300 feet of a known permanent residence, school, hospital, institution or church
- > The subject location is <u>not</u> within 500 feet of any known private domestic fresh water well or 1000 feet of any other fresh water well spring
- The subject location is <u>not</u> within any known incorporated municipal boundary
- The subject location is not within 500 feet of a known wetland
- > The subject location is not within a known unstable area
- The subject location is not within a known 100 year flood plain
- The subject location is not over any known subsurface or surface mine

Regional Geologic Setting

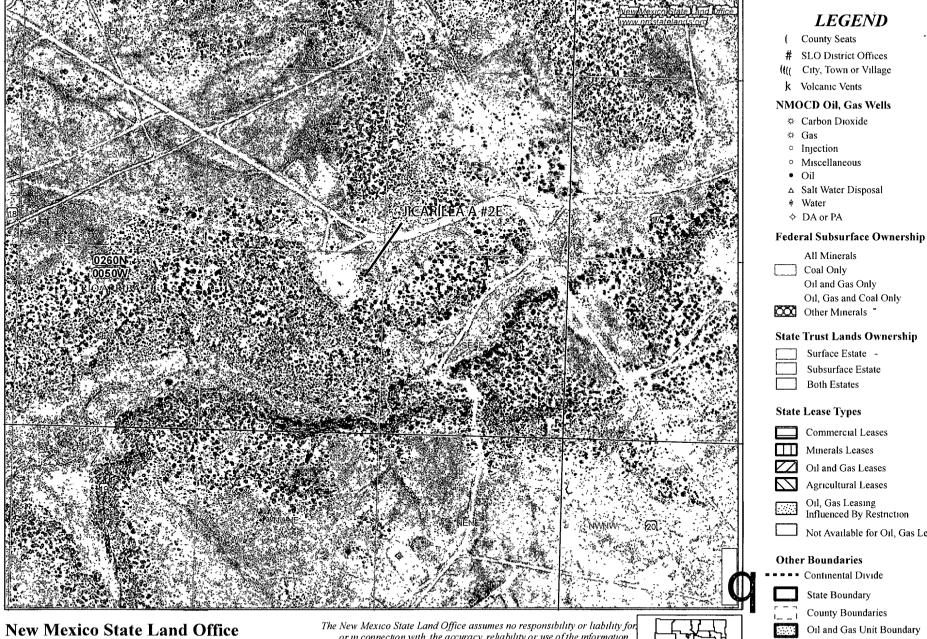
At CDX's Tapicito Project located in the eastern-central portion of the San Juan Basin, within the Jicarilla Apache Indian Nation, the San Jose Formation outcrops and forms the surface landscape.

The San Jose Formation outcrops in the eastern-northeastern portion and covers ~1/6th of the San Juan Structural Basin. The San Jose Formation overlies the Nacimiento Formation in the area generally south of the CO-NM state line, and overlies the Animas Formation in the area generally north of the CO-NM state line (Fassett, 1974, p. 229). The basal contact of the San Jose varies with location in the basin. This contact is a disconformity along the basin margins, and it is an angular unconformity along the Naciemento Uplift; the contact is conformable in the central basin (Baltz, 1967, p. 54; Fassett, 1974 p. 229).

The Eocene-aged San Jose Formation was deposited in various fluvial-type environments (Baltz, 1967, p 44-45) and consists of interbedded sequence of sandstone, siltstone and shale. The sandstone are buff to yellow and rusty-colored, crossbedded, very fine to coarse-grained arkose, which are locally conglomeratic and contain abundant silicified wood (Baltz, 1967, p. 46; Fassett, 1974, p 229; Anerholm, 1979, p. 23).



Thickness of the San Jose Formation generally increases from west to east. Fassett (1974, p 229) reported a maximum thickness if 2,400 feet in the east-central part of the basin, and Stone and other (1983, p. 25) reported a range of from about 200 feet in the west and south to almost 2,700 feet in the center of the structural basin.



Oil, Gas, and Minerals Land/Lease Information Map

0 0 0250 05 01 0 15

Universal Transverse Mercator Projection, Zone 13 1983 North American Datum

or in connection with, the accuracy, reliability or use of the information provided here, in State Land Office data layers or any other data layer

> Land Office Geographic Information Center logic@slo state nm us

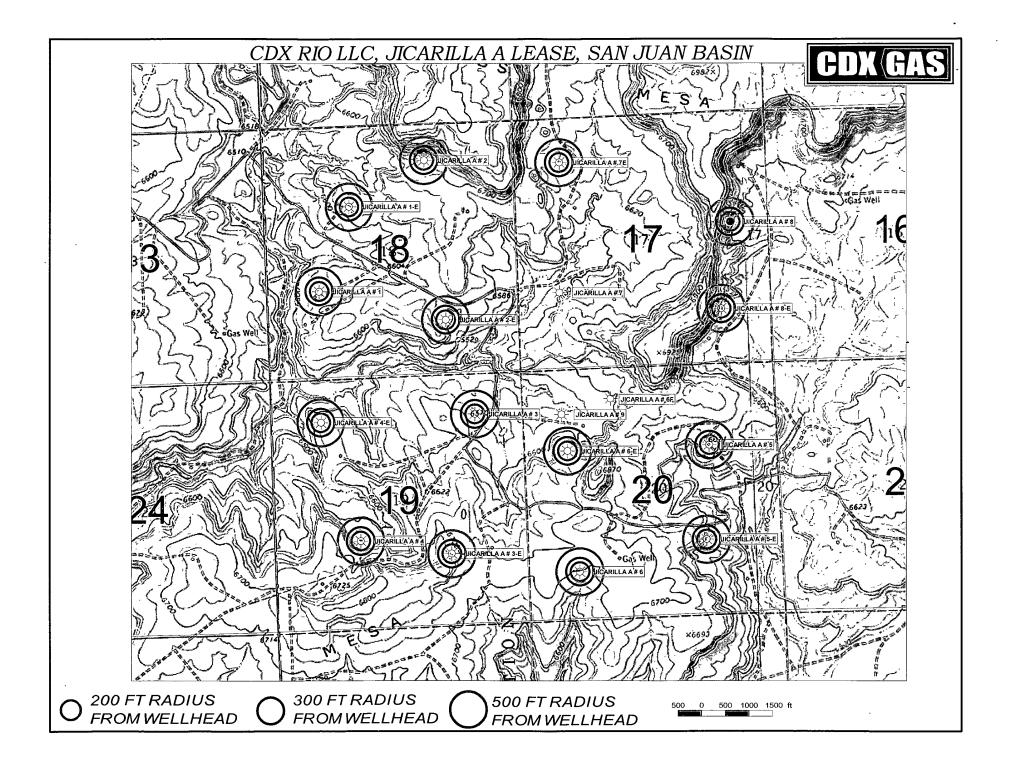
> > Created On. 8/21/2008 11 21 41 AM



Not Available for Oil, Gas Leasing

- Oil and Gas Unit Boundary
 - Geologic Regions

For detailed legend of the Geologic Map of New Mexico, Please see http://geoinfo.nmt.edu/





Hydrogeological Report Jicarilla A #2E Peter Kondrat

Ground Water Data, Water Well Locations

Hydraulic Properties: Levings and Others (1990) reported well yields from 79 water wells completed in the San Jose, Nacimiento and Animas Formations ranged from 1 to 61 gallons per minute and median is 6 gallons per minute. Transmissivity data for the San Jose, Nacimiento and Animas Formations are minimal. Values of 40 and 120 feet squared per day were determined from two aquifer tests (Stone and Others, 1983, table 5). The San Jose, Nacimiento and Animas Formations are a source of water for public supply, commercial, private-domestic and livestock use in areas where drilling depths and pumping levels are economically feasible and where water quality is suitable.

The San Jose, Nacimiento and Animas Formations are all hydrologically similar because sands in all units produce approximately the same quantities of water. The great percentage of fine material in all may restrict the downward vertical leakage to the Ojo Alamo Sandstone or Kirtland Shale. The poorly cemented material is highly erodible, forms a badland terrain and supports only spotty vegetation. These conditions are more conductive to runoff than retention of precipitation.

iWaters Database: The search showed no reported wells with groundwater information in the **T26N-R5W**. Attached are the results for the three query engines: 1) POD/Surface Data Report, 2) Avg Depth to Water Report, 3) Water Column Report

- > Ground water is not less than 50 feet below the bottom the subject location
- No known private water wells are within 500 feet of the subject location
- No known public water wells are within 1000 feet of the subject location
- No water wells around the subject area are listed in the iWaters Database

New Mexico Office of the State Engineer POD Reports and Downloads

	7 0 = 1.0 p	or to and Downson	
Township: 26N	Range: 05W	Sections:	
NAD27 X:	; Y:	Zone:	Search Radius:
County: Bas	in:	☐ Nu	mber: Suffix:
Owner Name: (First)	(Last)	(○Non-Domestic ○Domestic ●All
POD / Surface Data Report Avg Depth to Water Report Water Column Report			
	Clear Form (iWATERS Menu	Help

AVERAGE DEPTH OF WATER REPORT 08/26/2008

(Depth Water in Feet)
Bsn Tws Rng Sec Zone X Y Wells Min Max Avg

No Records found, try again

New Mexico Office of the State Engineer POD Reports and Downloads

1 OD Reports and Downloads
Township: 26N Range: 05W Sections:
NAD27 X: Y: Zone: Search Radius:
County: Basin: Number: Suffix:
Owner Name: (First) (Last) Onn-Domestic Odmestic Odmestic
POD / Surface Data Report Avg Depth to Water Report Water Column Report
Clear Form iWATERS Menu Help
WATER COLUMN REPORT 08/26/2008
(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 Well Water Column
No Records found, try again

New Mexico Office of the State Engineer POD Reports and Downloads

P	POD Reports and Downloads
Township: 26N Range:	e: 05W Sections:
NAD27 X: Y:	Zone: Search Radius:
County: Basin:	Number: Suffix:
Owner Name: (First)	(Last) Onestic
POD / Surface Data Report	Avg Depth to Water Report Water Column Report
Clear F	Form iWATERS Menu Help
POD / SURFA	ACE DATA REPORT 08/26/2008 (quarters are 1=NW 2=NE 3=SW 4=SE)
(acre ft per annum)	(quarters are biggest to smallest
DB File Nbr Use Diversion Owner SJ 01098 OIL 15 AMOCO PRODUCT	TION COMPANY SJ 01098 Source Tws Rng Sec q q q 2 2 3 2

Record Count: 1

New Mexico Office of the State Engineer Water Right Summary

Back

DB File Nbr: SJ 01098

Primary Purpose: OIL OIL PRODUCTION

Primary Status: PMT Permit

Total Acres: 0
Total Diversion: 15

Owner: AMOCO PRODUCTION COMPANY

Documents on File

Doc File/Act Status 1 2 3 Trans Desc From/To Acres Diversion Consumptive

03/13/1980 PMT APR PRC SJ 01098

T 0 15

(qtr are 1=NW 2=NE 3=SW 4=SE)

Point of Diversion (qtr are biggest to smallest X Y are in Feet UTM are in Meters)

 POD Number
 Source
 Tws
 Rng
 Sec
 q
 q
 Zone
 X
 Y
 UTM_Zone
 Easting
 Northing
 La

 SJ 01098
 26N
 05W
 31
 2
 3
 2
 13
 285102
 4036094

Priority Status Acres Diversion POD Number Source 12/06/1979 PMT 0 15 SJ 01098

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

Place of Use (quarters are biggest to smallest

Tws Rng Sec q q q Acres Diversion Consumptive Use Priority Status Other Location Description
26N 05W 31 0 15 OIL PMT PLACE OF USE WILL BE AT DIFFER

Processed By

New Mexico Office of the State Engineer Transaction Summary

Back

APPRO Application to Appropriate

Comment

SQ2

Trn nbr: 222990 Trn desc:SJ 01098 File Date:12/06/1979

Primary status: PMT Permit
Secondary status: APR Approved

Type

QAT

Person assigned: ******

Applicant: AMOCO PRODUCTION COMPANY

Description

Events

Date



Duce	1,56	Description	Comment	Flocessed by
12/06/1979	APP	Application Received	*	****
12/06/1979	MAP	Map or Plat Received	*	****
12/21/1979	NFP	Notice for Publication		* * * * *
02/12/1980	AOP	Affidavit of Publication rcv		* * * * *
03/13/1980	PUC	PBU/PCW Approval		* * * * *
03/13/1980	FIN	Final Action on application		****
12/30/2002	ARV	Rec & Arch - file location	SJ 01098 Box: 82	* * * * *
12/16/2003	QAT	Quality Assurance Completed	SQ 1	****
03/24/2005	QAT	Quality Assurance Completed	IMAGE MAP	****

DB_File_Nbr Acres Diversion Consumptive Purpose of Use SJ 01098 0 15 0 OIL OIL PRODUCTION

Quality Assurance Completed

Point of Diversion

10/19/2005

SJ 01098 26N 05W 31 NE SW NE in Rio Arriba County

Place Of Use

Tws Rng Sec Acres Diversion Consumptive Use Priority Other Locati Status 26N 05W 0 15 `31 OIL PMT PLACE OF USE

Remarks

THIS WELL WILL BE DRILLED ON THE SAME LOCATION AS AMOCO'S

JICARILLA GAS COM "B" #1.

Conditions

5B :A totalizing meter shall be installed before the first branch of the discharge line from the well and the installation shall be acceptable to the State Engineer; the Engineer shall be advised of the make, model, serial number, date of installation, and initial reading of the meter prior to appropriation of water; pumping records shall be submitted to the District Supervisor on or before the 10th of Jan., April, July, and Oct. of each year for the 3 preceeding calendar months.

Action of the State Engineer

Approval Code: A Approved
Action Date: 03/13/1980
pcw due date: 03/31/1984
pbu due date: 03/31/1984

State Engineer: John R. D Antonio, Jr., P.E.

By:



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Wetland Maps and Data

The US Fish and Wildlife for the **Jicarilla A #2E** is unavailable due to its location being within the Jicarilla Apache Indian Nation. The US Fish and Wildlife does not have wetland information for the Jicarilla Apache Indian Nation. This well is not located near a wash or watercourse and is not in a wetland area as visible on the topographic map.

Flood Zone Maps and Data

The FEMA Map for the **Jicarilla A #2E** is unavailable due to its location being within the Jicarilla Apache Indian Nation. FEMA does not provide floodplain information for the Jicarilla Apache Indian Nation. This well is not located near a wash or watercourse and is not in a 100 year floodplain as visible on the topographic map.



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New Mexico EMNRD Mining and Mineral Divison http://www.emnrd.state.nm.us/MMD/MRRS/MinesMillsQuarriesWebMap.htm

State Bureau of Mines and Minerals Resources http://geoinfo.nmt.edu/index.html

US Fish and Wildlife http://www.fws.gov.html

New Mexico Land Office

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http://store.usgs.gov/mod/index.html http://terraserver-usa.com

US Geological Survey (USGS) http://store.usgs.gov/mod/index.html http://terraserver-usa.com/

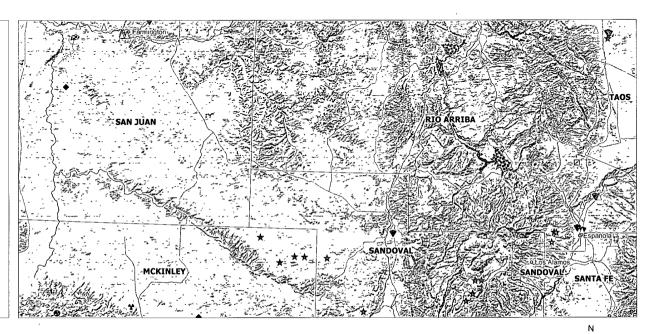
Federal Emergency Management Agency (FEMA)
http://www.fema.gov/
http://msc.fema.gov/webapp/wcs/stores/servlet/FemaWelcomeView?storeld=10001&catallogld=10001&langld=-1

Google Earth http://landstatus.nmstatelands.org/
http://www.earthpoint.us/townships.html

New Mexico Geological Society http://nmgs.nmt.edu/

CDX'S TAPICITO PROJECT SAN JUAN BASIN MINES, MINERALS AND QUARRIES WEB MAP

Mines, Mills	& Quarries Commodity Groups
Δ	Aggregate & Stone Mines
•	Coal Mines
×	Industrial Minerals Mines
•	Industrial Minerals Mills
	Metal Mines and Mill Concentrate
	Potash Mines & Refineries
=	Smelters & Refinery Ops.
*	Uranium Mines
•	Uranium Mills
Population	
	Cities - major
Transportation	nn e









Below Grade Tank Management Plan

I. Siting Criteria

- 1. No below grade tank may be located where:
 - a. Ground water is less than 50 feet below the bottom of the temporary pit or below grade tank.
 - b. Within 300 feet of a continuously flowing watercourse
 - c. Within 200 feet of any significant watercourse, lakebed, sinkhole or playa lake
 - d. Within 300 feet from a permanent residence, school, hospital, institution or church
 - e. Within 500 feet of a private domestic fresh water well or spring used by less than five households for domestic or stock watering purposes or within 1000 feet of any other fresh water well spring.
 - f. 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, unless the municipality specifically approves
 - g. Within 500 feet of a wetland
 - h. Within an unstable area
 - i. Within a 100 year flood plain
 - j. Over or near any known or suspected mined area
- 2. If ground water is an issue, the tank shall be placed above ground in a lined berm.
- 3. All excavated material will be stored at least 300 feet from any continuous flowing water and 200 feet away from any other water way.

II. Construction:

- 1. After June 16, 2008 any below grade tank replacement will use only steel double walled, double bottom tanks with a leak detection system.
- 2. The below grade tank pit bottom shall be free on any rocks, debris, sharp edges, or irregularities
- 3. Prior to the installation of any tank, the soil shall be sampled for
 - a. Chlorides
 - b. Benzene, toluene, ethyl benzene, and xylene
 - c. Benzene
 - d. Total petroleum hydrocarbons.
- 4. A fence meeting one of the following requirements shall be erected around the tank site consisting of:
 - a. Four strands of barbed wire placed on a pole between one and four feet

- b. A chain link fence six feet tall and topped with at least two strands of barbed wire when the temporary pit is within 1000 feet of a residence, school, hospital, institution or church. The fence shall have a gate which is locked when responsible personnel are not on-site.
- c. Oil Conservation Division approved alternative

 Note: CDX Gas uses Jicarilla Apache Tribal approved hog wire with a
 barbed wire top
- 5. Any open top tank shall be covered with netting, expanded metal, or "chicken wire" to prevent wildlife from entering the tank.
- 6. Any tank area shall be bermed to prevent the run on of water.

III. Operations and Maintenance:

- 1. All tanks and existing pits shall be inspected each month as a part of the Spill Prevention Control and Countermeasure facility inspection.
- 2. The inspection shall be documented on the Spill Prevention Control and Countermeasures Plan inspection form and maintained for at least five years.
- 3. All sides of the below grade tanks existing before June 16, 2008 shall be visible.
- 4. Any dirt or debris shall be noted on the inspection form and removed promptly.
- 5. Any oil visible on the surface of the fluid in the below grade tank shall be promptly removed.
- 6. Absorbent materials shall be maintained on site for this purpose.
- 7. Each below grade tanks shall have enough free board to prevent overflowing.
- 8. Any spillage or leak shall be reported to the Oil Conservation Division with in 48 hours of detection.
- 9. Any produced waste shall be disposed at either:
 - a. Basin Disposal (permit number NM-01-005)
 - b. Aquamoss (permit number SWD-1034A)

IV. Closure:

- 1. Current configuration consists of two single walled steel tanks which do meet 19.15.17 NMAC. The tanks will be replaced with steel, double walled, double bottomed tanks having a leak detection system by June 16 2013.
- 2. The tanks shall be recycled, reused, reclaimed or disposed of in an Oil Conservation Division approved manner.
- 3. Any existing below grade tank which does not show integrity shall be immediately removed from service.
- 4. The soil under a pit shall be sampled for:
 - a. Benzene as determined by Environmental Protection Agency SW-846 method 8012B or 8260B or other Environmental Protection Agency method that the Oil conservation Division approves. The test shall not exceed 0.2 mg/kg.
 - b. Total Petroleum Hydrocarbons as determined by the Environmental Protection Agency SW-846 method 8021B or 8260B or other

- Environmental Protection Agency method that the Oil Conservation Division approves. The test shall not exceed 100 mg/kg.
- c. Total Benzene, Toluene, Ethyl Benzene, and Xylene as determined by Environmental Protection Agency SW-846 method 8021B or 8260B or other Environmental Protection Agency method that the Oil Conservation Division approves. The test shall not exceed 50 mg/kg.
- d. Chlorides as determined by Environmental Protection Agency method 300.1. The test shall not exceed 250mg/kg or background concentration, whichever is greater.
- 5. If contaminated soil is found under the pit, the soil will be removed and transported to either:
 - a. TNT land farm (permit number NM-01-0008)
 - b. Industrial Ecosystems Landfarm (permit number NM 01-0010B)
- 6. Any produced sludge shall be disposed of at either:
 - a. Basin Disposal (permit number NM-01-005)
 - b. Aquamoss (permit number SWD-1034A)
- 7. Any equipment associated with the removed below grade tank shall be removed unless needed for some other purpose.
- 8. Upon permanent closure of the below grade tank location:
 - a. Notify the land owner in writing by certified mail, return receipt requested, of the closure.
 - b. Notify the Oil Conservation Division at least 72 hours but not more than one week in advance of the closure.
 - c. Submit a closure report to the Oil Conservation Division with in 60 days.

V. Site Reclamation

A. Contouring:

- 1. The site shall be contoured to blend in with the surrounding terrain.
- 2. The soil cover shall consist of the background thickness of topsoil or one foot of suitable material for establishing vegetation at the site, which ever is greater.
- 3. The soil shall be spread in such a manner as to prevent the pooling of water.

B. Reseeding:

- 1. The area shall be reseeded at the first growing season after the completion of all work.
- 2. The seed mixture shall consist of three native plant species including one grass or Jicarilla Apache Tribal approved seed mix.
- 3. The seed mixture shall be drilled on the contour whenever practical.
- 4. At least 70 percent of the native perennial vegetative cover (unimpacted by overgrazing, fire, or other intrusive damage) shall be maintained through two successive growing seasons. Irrigation may not be used to accomplish the required ground cover.