District I
1625 N French Dr , Hobbs, NM 88240
District II
1301 W Grand Avenue, Aitesia, 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

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 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									
Pit: Subsection For G of 19 15 17 11 NMAC RCVD SEP 12 '08 Temporary Drilling Workover Oil CONS. DIV. Permanent Emergency Cavitation P&A DIST. 3 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									
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									
Below-grade tank: Subsection I of 19 15 17 11 NMAC Volume									
Alternative Method:									

Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

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, 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	hospıtal,
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)	
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	
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 consideration of approval Exception(s) Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval	office for
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 accept material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a 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.	priate district pproval.
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 ☒ 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

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
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 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 Treeboard 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
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)
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 G of 19 15 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.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 Pe									
Disposal Facility Name Disposal Facility Permit Number									
	rups and approximations?								
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									
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								
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								
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								
On-Site Closure Plan Checklist: (19 15.17 13 NMAC) Instructions: Each of the following items must be attached to the closure p. 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 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 cant 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								

19 ·	•	
Operator Application Certification: I hereb certify that the information submitted with this application is true, accurat	e and complete to	o the hest of my knowledge and helief
•	•	
Name (Print)Lee Gardner		HSE Coordinator
Signature Re Harring	Date	8-28-08
e-mail addresslee gardner@cdxgas com	Telephone	505-324-5427
OCD Approval: Permit Application (including closyre plan) [Goque Plan	n (only) 🔲 OC	CD Conditions (see attachment)
		Approval Date: 485/25/2
		Approval Date. 1
	OCD Permit Nu	ımber:
Closure Report (required within 60 days of closure completion): Subsection K Instructions: Operators are required to obtain an approved closure plan prior to The closure report is required to be submitted to the division within 60 days of the section of the form until an approved closure plan has been obtained and the closure plan has been plan has been plan has been	implementing are completion of t	ny closure activities and submitting the closure report. he closure activities. Please do not complete this
	Closure Co	ompletion Date:
Closure Method: Waste Excavation and Removal On-Site Closure Method Alternati If different from approved plan, please explain	ve Closure Meth	od Waste Removal (Closed-loop systems only)
Closure Report Regarding Waste Removal Closure For Closed-loop Systems T Instructions: Please indentify the facility or facilities for where the liquids, drilling two facilities were utilized.		
Disposal Facility Name.	Disposal Facility	Permit Number
		y Permit Number
Were the closed-loop system operations and associated activities performed on or in Yes (If yes, please demonstrate compliance to the items below) \(\subseteq \text{No} \)	n areas that <i>will n</i>	not be used for future service and operations?
Required for impacted areas which will not be used for future service and operation Site Reclamation (Photo Documentation)	ns	
Soil Backfilling and Cover Installation		
Re-vegetation Application Rates and Seeding Technique		
Closure Report Attachment Checklist: Instructions: Each of the following iten	ns must be attach	hed 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	de	NAD □1927 □ 1983
Operator Closure Certification:		
I hereby certify that the information and attachments submitted with this closure repelled. I also certify that the closure complies with all applicable closure requireme		
Name (Print)		is specified in the approved crossic plan
Signature	Date	
e-mail address:	Telephone	



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

Jicarilla Gas Com C #001E

Below Grade Tank Well API: 30-039-22089

TWP: 26 N - Range: 5 W - Sec. 32; 1560 FNL 1770 FWL

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 <u>not</u> within 500 feet of a known wetland
- > The subject location is not within a known unstable area
- The subject location is <u>not</u> 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).

Hydrogeological Report Jicarilla Gas Com C #1E Peter Kondrat

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.



New Mexico State Land Office Oil, Gas, and Minerals Land/Lease Information Map

0 0 0 0 2 5 0 0 5 01 015 provided here, in State Land Office data layers or any other data layer Land Office Geographic Information Center

or in connection with, the accuracy, reliability or use of the information

logic@slo state nm us

Created On 8/22/2008 9 17 08 AM



LEGEND

(County Seats

SLO District Offices

(((City, Town or Village

k Volcanic Vents

NMOCD Oil, Gas Wells

- Carbon Dioxide
- ⇔ Gas
- Injection
- Miscellaneous
- Oıl
- △ Salt Water Disposal
- ♦ Water
- ♦ DA or PA

Federal Subsurface Ownership

All Minerals

Coal Only

Oil and Gas Only

Oil, Gas and Coal Only

Other Minerals

State Trust Lands Ownership

Surface Estate

Subsurface Estate

Both Estates

State Lease Types

Commercial Leases

Minerals Leases

Oil and Gas Leases

Agricultural Leases

Oil, Gas Leasing Influenced By Restriction

Not Available for Oil, Gas Leasing

Other Boundaries

■ ■ Continental Divide

State Boundary

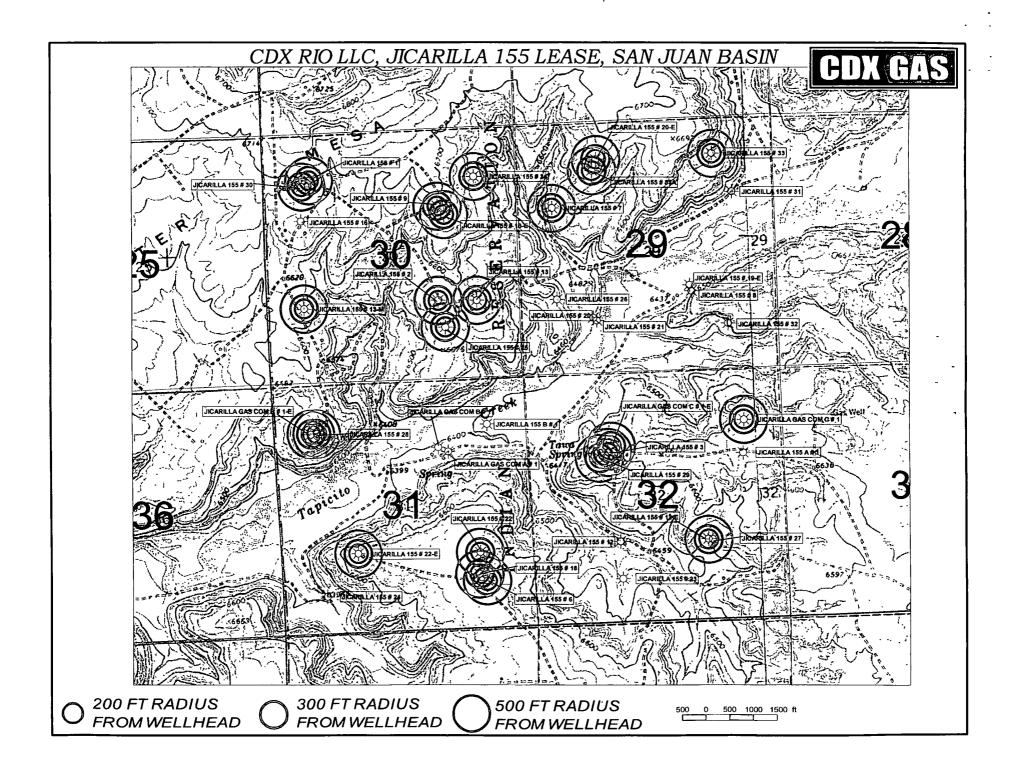
County Boundaries

Oil and Gas Unit Boundary

Geologic Regions

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

Universal Transverse Mercator Projection, Zone 13 1983 North American Datum





Hydrogeological Report Jicarilla Gas Com C #1E 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

			1 OD KC	orts and Down	ilvaus		
	Town	ship: 26N	Range: 05W	Sections:			
	NAD27	X:	Y:	Zone:	Search Radi	us:	
	County:	্ৰী Basin	:		Number:	Suffix:	
	Owner Name: (First	st)	(Last)		⊙ Non-Domesti	ic ○Domestic ⊚A	
	POD / Surfac	e Data Report	Av	g Depth to Water	Report Wa	ater Column Report	
			Clear Form	iWATERS Me	nu Help		<i>:</i>
		WATER	COLUMN REPO	ORT 08/26/200	В		,1
POD Number	(quarters are (quarters are Tws Rng	biggest to			_	Water (in feet) olumn	
No Records f	ound, try again						

New Mexico Office of the State Engineer POD Reports and Downloads

	Towns	ship:	26N Range	: 05W	Sections:			
· N	AD27	X:	Y:		Zone:		Search Radius:	
County:		<u> </u>	Basin:				Number: Suffix:	
Owner Nam	e: (First	t)	*_// _* _/*******************************	(Last)			○ Non-Domestic ○ Domestic ◎ All	
POD	/ Surface	Data	Report	Avg	Depth to W	/ater F	r Report Water Column Report	•
			Clear	Form [iWATER	S Men	enu Help	

AVERAGE DEPTH OF WATER REPORT 08/26/2008

(Depth Water in Feet)

Ban Twa 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 Down	iloaus	
	Township: 26N F	Range: 05W Sections:		
	NAD27 X:	Y: Zone:	Search Radius:	
	County: Basin:	2	Number: Suffix:	
	Owner Name: (First)	(Last)	○ Non-Domestic ○ Domesti	c All .
	POD / Surface Data Report	Avg Depth to Water	Report Water Column Rep	port
		Clear Form iWATERS Me	nu Help	
	POD /	SURFACE DATA REPORT 08,	/26/2008 (quarters are	e 1=NW 2=NE 3=SW 4=SE)
DB File Nbr SJ 01098	(acre ft per annum) Use Diversion Owner OIL 15 AMOCO PR			biggest to smallest Tws Rng Sec q q q 26N 05W 31 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 PRODUCTION OIL

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 APPRO

0 15

Point of Diversion POD Number SJ 01098

(qtr are 1=NW 2=NE 3=SW 4=SE) (gtr are biggest to smallest Source Tws Rng Sec q q q

X Y are in Feet Zone

Source

UTM are in Meters) UTM Zone Easting Northing

285102

13

4036094

- La

Diversion POD Number Priority Status Acres

12/06/1979 PMT 15 SJ 01098

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

26N 05W 31 2 3 2

(quarters are biggest to smallest Place of Use

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

New Mexico Office of the State Engineer Transaction Summary

Back

APPRO Application to Appropriate

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

Primary status: PMT Permit
Secondary status: APR Approved

Person assigned: ******

Applicant: AMOCO PRODUCTION COMPANY

Events

Date	Туре	Description	Comment	Processed B
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	OAT	Ouality Assurance Completed	IMAGE MAP	*****

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

QAT 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	q	q	q	đ	Acres	Diversion	Consumptive	Use	Priority	Status	Other Locati
26N	05W	31					0	15		OIL		PMT	PLACE OF USE

SQ2

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:

CDX GAS

Hydrogeological Report Jicarilla Gas Com C #1E Peter Kondrat

Wetland Maps and Data

The US Fish and Wildlife for the Jicarilla Gas Com C #1E 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 Gas Com C #1E** 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.

GDX GAS

Hydrogeological Report

Jicarilla Gas Com C #1E

Peter Kondrat

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New Mexico Land Office

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

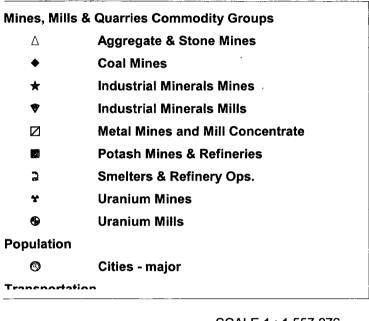
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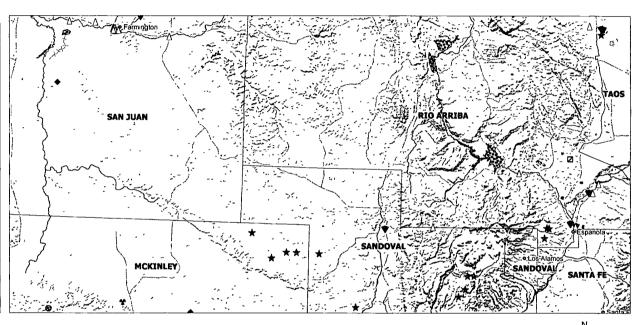
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http://www.fema.gov/
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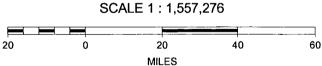
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CDX'S TAPICITO PROJECT SAN JUAN BASIN MINES, MINERALS AND QUARRIES WEB MAP











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.