<u>District I</u> 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

Energy Minerals and Natural Resources State of New Mexico

of drilling and production facilities, submit to appropriate NMOCD District Office.
Fortionstream facilities, submit to Santa Fe

Form C-144

June 1, 2004

Oil Conservation Diversion 1220 South St. Fragis Dr. Santa Fe, NM \$7500

Pit or Below-Grade Tank R	egistration or Glosure
Is pit or below-grade tank covered by a	General plan"? Yes ⊠ No 🏻

Type of action: Registration of a pit of	r below-grade tank Closure of apit of below-grade	de tank ⊠		
Operator: CDX Rockies, L.L.C. Telephone:	(505) 326-3003 e mail address: dave smith@	cdxgas.com		
Address: 4801 North Butler Ave, Suite 2000, Farmington, NM, 87401				
Facility or well name: Big Wave Fed. 29-29-8 #101 API #: 300345-31180 U/L or Qtr/Qtr NW/NW Sec 29 T 29 R 8				
County: San Juan Latitude 36.701542 Longitude -107.705009	NAD: 1927 ☑ 1983 ☐ Surface Owner Federal ☑	State Private Indian		
<u>Pit</u>	Below-grade tank			
<u>Type:</u> Drilling ☑ Production ☐ Disposal ☐	Volume:bbl Type of fluid:			
Workover	Construction material:			
Lined ☑ Unlined ☐	Double-walled, with leak detection? Yes 🔲 If not	t, explain why not.		
Liner type: Synthetic ☑ Thickness <u>12</u> mil Clay □				
Pit Volume <u>20,000</u> bbl				
Depth to ground water (vertical distance from bottom of pit to seasonal high	Less than 50 feet	(20 points)		
water elevation of ground water.)	50 feet or more, but less than 100 feet	(10 points)		
water elevation of ground water.)	100 feet or more	(0 points) X		
Wellhead protection area: (Less than 200 feet from a private domestic	Yes	(20 points)		
water source, or less than 1000 feet from all other water sources.)	No	(0 points) X		
	Less than 200 feet	(20 points)		
Distance to surface water: (horizontal distance to all wetlands, playas,	200 feet or more, but less than 1000 feet	(10 points)		
irrigation canals, ditches, and perennial and ephemeral watercourses.)	1000 feet or more	(0 points) X		
	Ranking Score (Total Points)	0 points		
If this is a pit closure: (1) attach a diagram of the facility showing the pit's	relationship to other equipment and tanks. (2) Indica	te disposal location: (check the onsite box if		
your are burying in place) onsite \(\square\) offsite \(\square\) If offsite, name of facility_	. (3) Attach a general d	lescription of remedial action taken including		
remediation start date and end date. (4) Groundwater encountered: No 🛛 Y	es If yes, show depth below ground surface	ft. and attach sample results. (5)		
Attach soil sample results and a diagram of sample locations and excavations	s.			
Additional Comments:				
Pit remediation as per APD and Federal guidelines. Upon lab testing (10/15)	/04), synthetic liner was cut-off at the mud level and h	nauled away for disposal. Pit was then filled and		
and contoured. Work on location commenced 11/02/04. The contouring and	d work on location drainage was concluded 12/17/04.			
I hereby certify that the information above is true and complete to the best o been/will be constructed or closed according to NMOCD guidelines, Date: December 28, 2004				
Printed Name/Title David C. Smith / Production Engineer	Signature			
Your certification and NMOCD approval of this application/closure does no otherwise endanger public health or the environment. Nor does it relieve the regulations.	of relieve the operator of liability should the contents of operator of its responsibility for compliance with an	of the pit or tank contaminate ground water or y other federal, state, or local laws and/or		
Approval: DEPUTY OIL & GAS INSPECTOR, DIST.	Signature Derry Lear	FEB - 9 2005		



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	CDX Rockies	Project #:	03040-007
Sample ID:	No. 101	Date Reported:	10-20-04
Laboratory Number:	30983	Date Sampled:	10-15-04
Chain of Custody No:	13191	Date Received:	10-15-04
Sample Matrix:	Drill Mudd	Date Extracted:	10-18-04
Preservative:	Cool	Date Analyzed:	10-20-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	11.2	0.1
Total Petroleum Hydrocarbons	11.2	0.2

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

San Juan Co., NM BW Federal 29-29-8.



JAN 0.7-2005

Production C2

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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	CDX Rockies	Project #:	03040-007
Sample ID:	No. 101	Date Reported:	10-20-04
Laboratory Number:	30983	Date Sampled:	10-15-04
Chain of Custody:	13191	Date Received:	10-15-04
Sample Matrix:	Drill Mudd	Date Analyzed:	10-20-04
Preservative:	Cool	Date Extracted:	10-18-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

	Concentration	Det. Limit	
Parameter	(ug/Kg)	(ug/Kg)	
Benzene	22.4	1.8	
Toluene	35.4	1.7	
Ethylbenzene	26.4	1.5	
p,m-Xylene	ND	2.2	
o-Xylene	8.5	1.0	
Total BTEX	92.7		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	95 %
	1,4-difluorobenzene	95 %
	Bromochlorobenzene	95 %

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, December 1996.

Comments:

San Juan Co., NM BW Federal 29-29-8.

Analyst C. Oglins

/ Misture m Walters
Review



EC, SAR, ESP, CI Analysis

Client:	CDX Rockies	Project #:	03040-007
Sample ID:	No. 101	Date Repor	ted: 10-19-04
Laboratory Number:	30983	Date Sampl	ed: 10-15-04
Chain of Custody:	13191	Date Receiv	ved: 10-15-04
Sample Matrix:	Drill Mudd	Date Extrac	ted: 10-18-04
Preservative:	Cool	Date Analyz	zed: 10-19-04
Condition:	Cool & Intact		
		Analytical	
Paramet	er	Result	Units
Conductivity @ 250 C		4.550	make I
Conductivity @ 25° C	;	4.550	mmhos/cm
Conductivity @ 25° C	;	4.550 434	mmhos/cm mg/Kg
	;	,	
Calcium	;	434	mg/Kg
Calcium Magnesium		434 <0.01	mg/Kg mg/Kg
Calcium Magnesium Sodium	Ratio (SAR)	434 <0.01 234	mg/Kg mg/Kg mg/Kg

Reference:

U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.

Comments:

San Juan Co., NM BW Federal 29-29-8.



TRACE METAL ANALYSIS

Client:	CDX Rockies	Project #:	03040-007
Sample ID:	No. 101	Date Reported:	10-19-04
Laboratory Number:	30983	Date Sampled:	10-15-04
Chain of Custody:	13191	Date Received:	10-15-04
Sample Matrix:	Drill Mudd	Date Analyzed:	10-19-04
Preservative:	Cool	Date Digested:	10-18-04
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.006	0.001	5.0
Barium	0.218	0.001	100
Cadmium	ND	0.001	1.0
Chromium	0.001	0.001	5.0
Lead	0.001	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.004	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References:

Method 3050B, Acid Digestion of Sediments, Sludges and Soils.

SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision

Spectroscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

San Juan Co., NM BW Federal 29-29-8.

Analyst

Review