

2R - 58

**GENERAL
CORRESPONDENCE**

YEAR(S):

2006

Hansen, Edward J., EMNRD

From: Price, Wayne, EMNRD
Sent: Friday, December 15, 2006 4:31 PM
To: Hansen, Edward J., EMNRD
Cc: Lowe, Leonard, EMNRD
Subject: FW: Chevron Catclaw Draw #21 C-144 Alternative Closure Revised
Attachments: Catclaw Draw #21 C-144 Alternative Closure Revised.pdf

2R0058

Please file

From: Pat Mccasland [mailto:pmccasland@envplus.net]
Sent: Tuesday, December 12, 2006 3:40 PM
To: Price, Wayne, EMNRD
Cc: Bratcher, Mike, EMNRD; Jim Duke; Wayne Minchew; 'Cody Miller'; Cody Miller; Daniel Dominguez (EPI); Dave Duncan (EPI); 'EPI'; Janet Peterson; 'Jason Stegemoller'; Jessica Harper (EPI); 'Roger Boone'
Subject: Chevron Catclaw Draw #21 C-144 Alternative Closure Revised

Mr. Price,

Attached is the Chevron Catclaw Draw #21 C-144 Alternative Closure Revised, being submitted by Environmental Plus, Inc. (EPI) on behalf of Chevron. The C-144 proposes an alternative closure strategy that relies on disposal to minimize the volume of the chloride source term and permanent isolation of the remaining chloride source term via encapsulation inside impermeable barriers. Hard copies will follow.

This proposal will be implemented upon your approval.

Sincerely,

Pat McCasland
Senior Consultant & Safety Director
HydroTech Services, LLC and Environmental Plus, Inc.
P.O. Box 1558
2100 Avenue O
Eunice, New Mexico 88231

Office: 505.394.3481
Cellular: 505.390.7864
FAX: 505.394.2601
address: pmccasland@envplus.net



ENVIRONMENTAL PLUS, INC.
CONSULTING AND REMEDIAL CONSTRUCTION

December 12, 2006

Mr. Wayne Price, Chief
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division Environmental Bureau
P. O. Box 6429
1220 S St. Francis Drive
Santa Fe, New Mexico 87505

**Re: C-144 – Alternative Closure Proposal (Revised)
Chevron USA (O-Grid #4323)
Pure Resources (O-Grid #150628) Catclaw Draw Unit #21 (Ref. #200078)
UL-C, Section 14, Township 21 South, Range 25 East, Eddy County, New Mexico
Latitude: N 32°29'05.59" and Longitude: W 104°22'08.83"**

Dear Mr. Price:

Environmental Plus, Inc. (EPI), on behalf of Chevron USA (Chevron) (Pure Resources) submits the enclosed New Mexico Oil Conservation Division (NMOCD) form C-144 and supporting information proposing an alternative closure at this site. The alternative closure proposes encapsulating the intact pit in place even though the bottom of the pit will be less than 50-feet from the groundwater, (i.e., the bottom of the existing pit is approximately 48-feet from the groundwater interface).

BACKGROUND

Initially, Chevron proposed closing the drill pit via encapsulation in accordance with the NMOCD Pit and Below-Grade Tank Guidelines, November 1, 2004 and the "ChevronTexaco Drilling and Reserve Pit Closure General Plan, December 2004" and was based on the following discussion and rationale.

The Chevron groundwater contour map indicates the groundwater underlying the Catclaw Draw #21 drill pit to be less than 50-feet bgs, however, after review of available water level information from the USGS and the New Mexico Office of the State Engineer (reference *Table 1*), the depth to groundwater at the site is calculated to be approximately 56-feet bgs and was derived as follows. The nearest water well to the Catclaw Draw #21 well site is down-gradient approximately 1,400-feet to the north northeast and has a 1992 USGS water level measurement of 34-feet below ground surface (bgs). On July 28, 2006, the groundwater level in this well was measured to be 35.0-feet bgs. The surface elevation of the windmill, as extrapolated from the USGS topographical map, is approximately 3,278-feet amsl. The calculated groundwater table elevation is 3,244-feet amsl, (i.e., 3,278 – 34 = 3,244). The surface elevation at the Catclaw Draw #21 well site, as extrapolated from the USGS topographical map, is 3,300-feet amsl. Reasonably assuming that the groundwater



table elevation under the well site is also 3,244-feet amsl, the calculated depth to groundwater is 56-feet amsl.

Mr. Van Barton, Compliance Officer, NMOCD Artesia Field Office, said that he would grant approval of the encapsulation proposal if the bottom of the pit was greater than 50-feet from groundwater. However, because the pit is approximately 8-feet deep and the groundwater is approximately 56-feet below the land surface where the drill pit was constructed, the bottom of the encapsulated pit is only 48-feet from the groundwater, negating local NMOCD approval. Mr. Barton said that encapsulation proposals of pits less than 50-feet from groundwater could be submitted to the Santa Fe office of the NMOCD for consideration and approved, if deemed technically acceptable. Mr. Wayne Price, NMOCD Santa Fe office, said that he could possibly approve the alternative closure proposal if the pit liner was intact and fluids had not been released from the pit, as evidenced by analysis of soil samples collected from perimeter locations adjacent to the pit at 4-feet to 8-feet bgs. Subsequently, on July 28, 2006, after timely notification of the Artesia and Santa Fe NMOCD offices, samples of the soil from the perimeter locations adjacent to the pit were collected and submitted to the laboratory for analysis. The laboratory reports are attached and the results summarized in *Table 2*.

PIT PERIMETER SAMPLES ANALYTICAL RESULTS

According to the analytical results, benzene, toluene, ethylbenzene and total xylenes (BTEX) and total petroleum hydrocarbon (TPH) are not an issue inside or outside the pit. Chloride results from analysis of the east perimeter, west perimeter and the north perimeter soil samples collected from 6-feet to 8-feet bgs were less than 250 mg/Kg. The chloride concentration in the south perimeter sample collected from 6-feet to 8-feet bgs beneath the caliche well pad was 864 mg/Kg and probably resulted from well pad activities rather than being from the pit. It can be concluded from the analytical results from the perimeter samples that the pit did not over-flow.

NORTH PIT SAMPLE ANALYTICAL RESULTS

A soil sample was collected from an unlined but fenced surface depression north of the lined drill pit to delineate/verify possible drilling fluid impact. Total petroleum hydrocarbon and benzene, toluene, ethylbenzene and total xylenes (BTEX) were not detected above the respective method detection limits. The chloride concentration was 1,280 mg/Kg. Given that the chloride concentration of the stiffened pit contents is 42,000 mg/Kg, it is not reasonable to conclude that the chloride residual in the north pit emanated from the drill pit, but will require remediation.

ALTERNATIVE CLOSURE PROPOSAL REQUEST

Given that the pit liner is intact and the laboratory results from analysis of the soil samples collected from locations adjacent to the perimeter of the pit support the conclusion that the pit did not over-flow into the surrounding environment, it is proposed that a geotextile cushion be installed in the west part of the lined pit to ensure the integrity of the under liner, that the stiffened pit contents be evenly distributed over the pit and that a 20-mil reinforced polyethylene liner, cushioned above and below with geotextile, be installed over the stiffened pit contents. The pit will then be brought to grade with local soil/rock and the surface reseeded with the desires of the landowner. It is furthermore proposed that the impacted soils in the north pit be placed in the pit and encapsulated along with the drill pit contents and the excavated are tested to verify achievement of the NMOCD remedial goals. Additionally, in the event of a liner failure,



ENVIRONMENTAL PLUS, INC.
CONSULTING AND REMEDIAL CONSTRUCTION

to minimize the chloride source term that could potentially migrate to groundwater, approximately 50% of the stiffened drill pit volume will be disposed of off-site, (i.e., approximately 600 cubic yards). A final C-144 and supporting documentation will be submitted to the NMOCD upon completion of the project.

This proposal will be implemented upon approval by the NMOCD and consensus with the New Mexico State Land Office.

Please direct all official communications to:

Chevron USA
Jim Duke, Construction Representative
PO Box 1949
Eunice, New Mexico 88231
Telephone: 505.394.1237
Email: LDuk@chevron.com

Should you have any questions or concerns, please call me at (505) 394-3481 or Mr. Jim Duke at (505) 394-1237 or via e-mail at LDuk@chevron.com.

Sincerely,

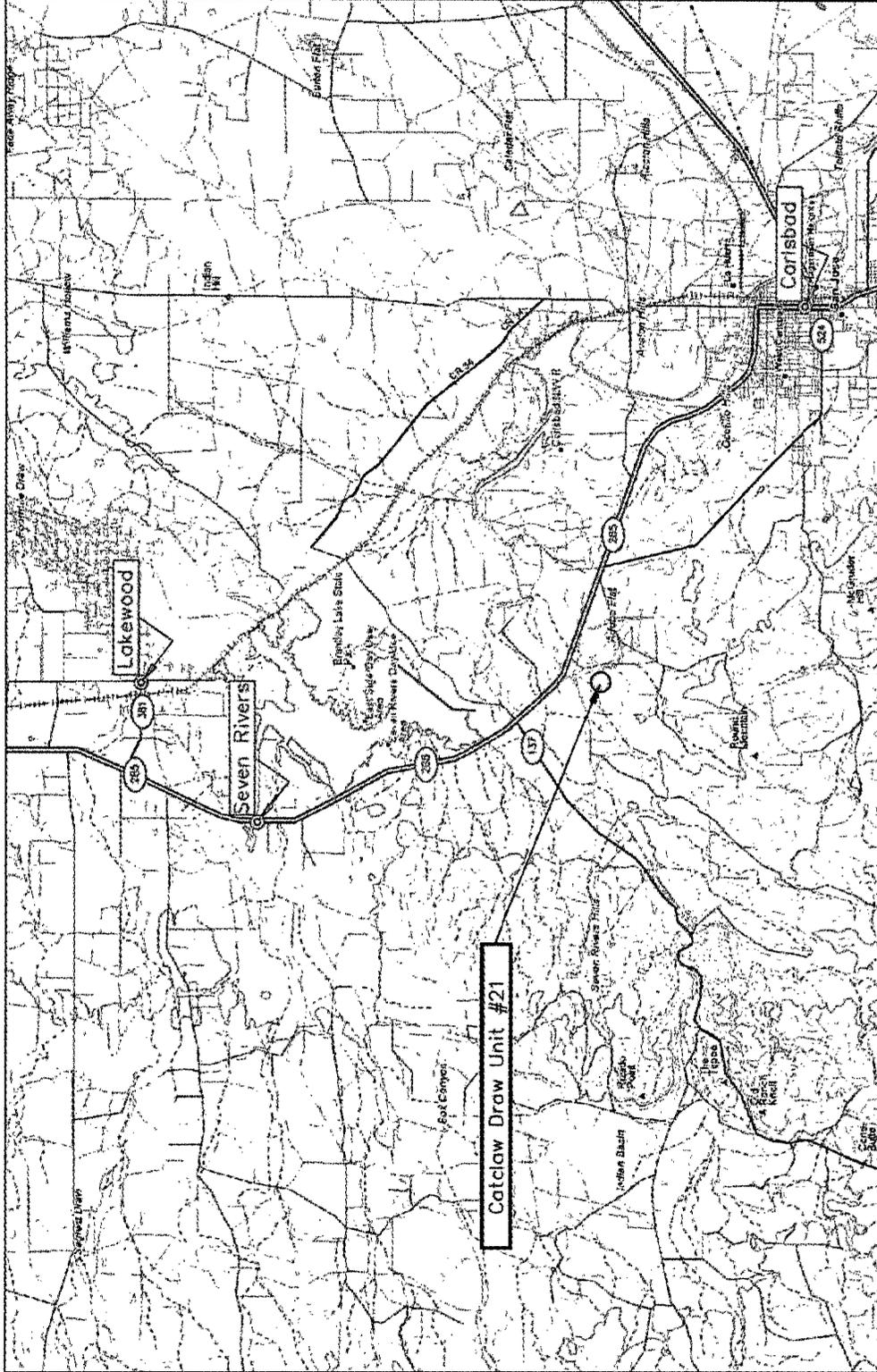
ENVIRONMENTAL PLUS, INC.

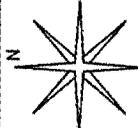
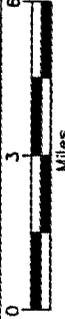
Pat McCasland
Senior Environmental Consultant

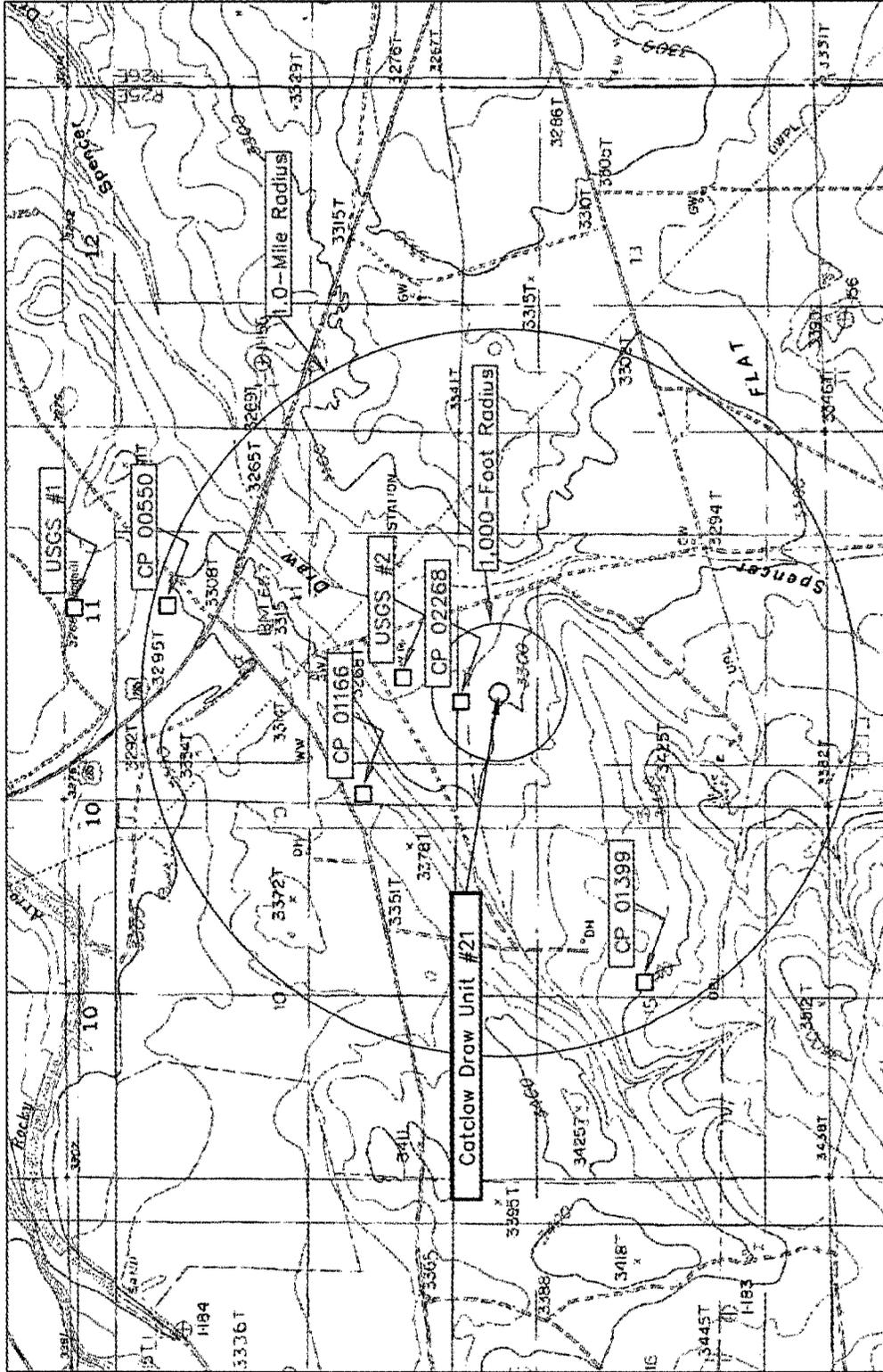
cc: Mike Bratcher, NMOCD Artesia
Jim Duke, Chevron USA
Wayne Minchew, Chevron USA
Thaddeus Kostrubala, State of New Mexico
file

Enclosures: Topographical Map
Site Location Map
Site Map
Groundwater Map
Table 1 - Well Data
Table 2 - Analytical Results Summary
Laboratory Reports
Photographs
NMOCD Form C-144

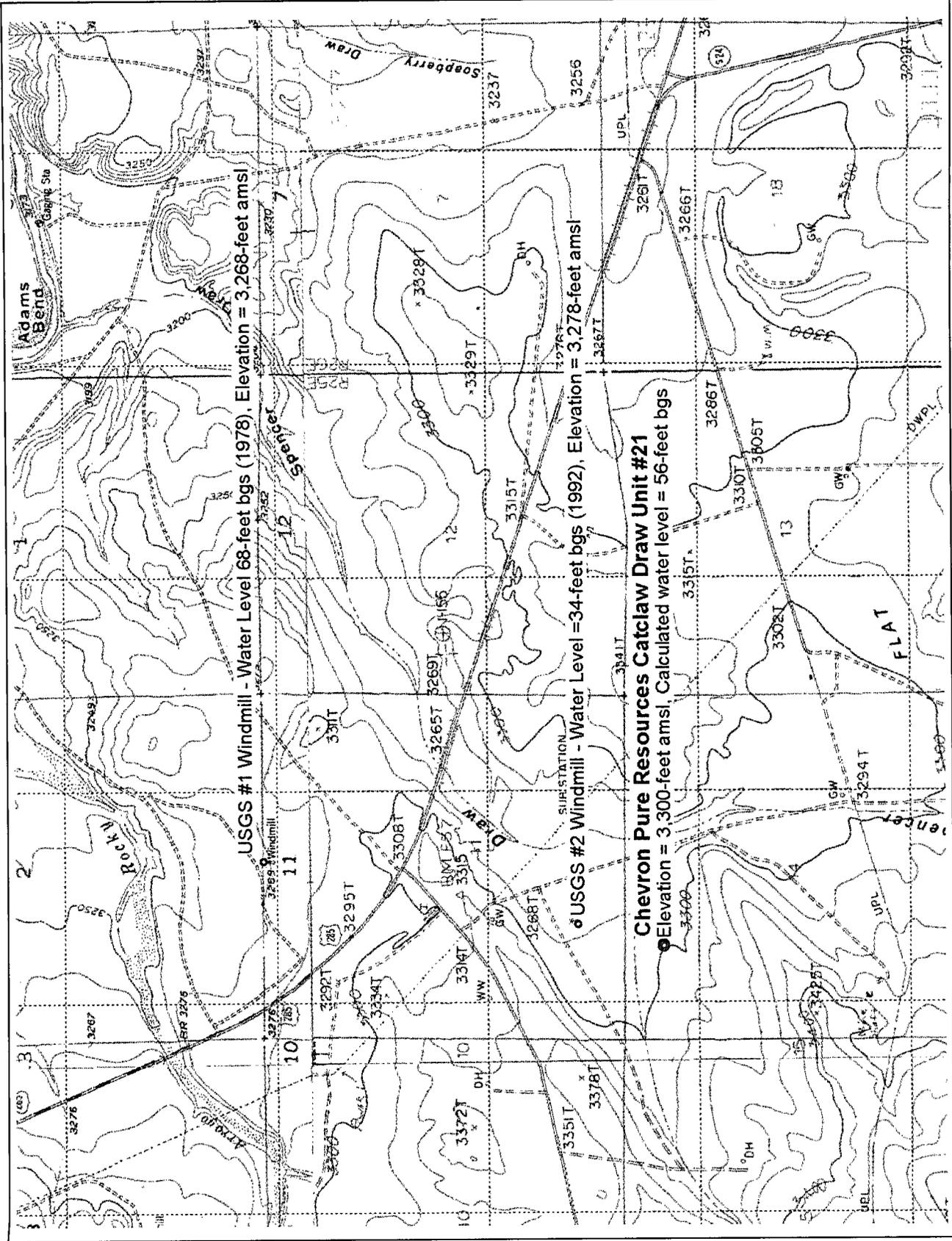
ENVIRONMENTAL PLUS, INC.



<p>Figure 1 Area Map Pure Resources Catchlaw Draw Unit #21</p>	<p>Eddy County, New Mexico NE 1/4 of the NW 1/4, Sec. 14, T21S, R25E N 32° 29' 05.59" W 104° 22' 08.83" Elevation: 3,297 feet amsl</p>	<p>DWG By: Daniel Dominguez March 2006</p>	<p>REVISID: 6 SHEET 1 of 1</p>  
--	--	--	--



<p>Figure 2 Site Location Map Pure Resources Catclaw Draw Unit #21</p>	<p>Eddy County, New Mexico NE 1/4 of the NW 1/4, Sec. 14, T21S, R25E N 32° 29' 05.59" W 104° 22' 08.83" Elevation: 3,297 feet amsl</p>	<p>DWG By: Daniel Dominguez March 2006</p>	<p>REVISED:</p>
	<p>Scale: 0 2000 4000 Feet</p> <p>SHEET 1 of 1</p>		



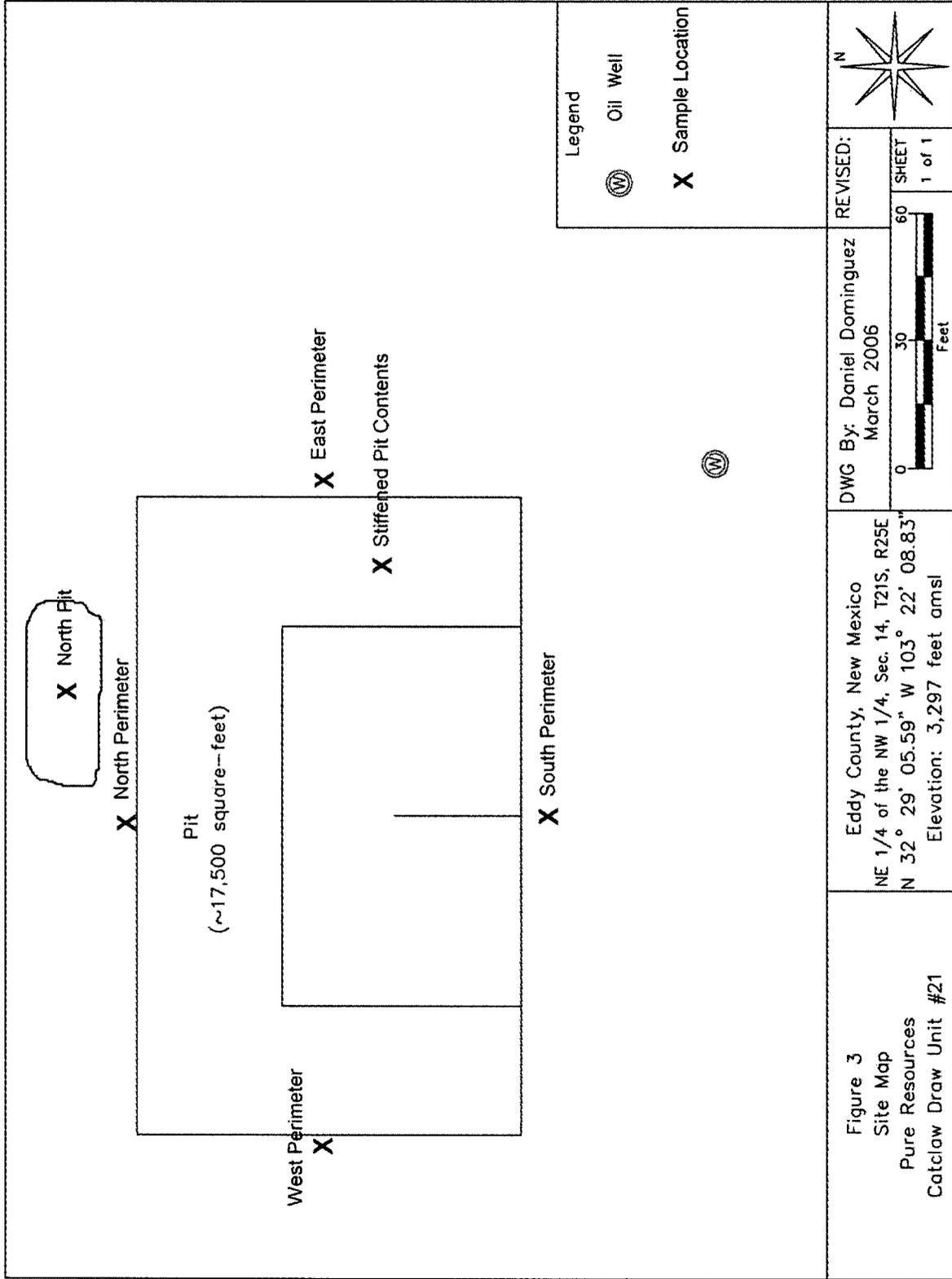


Figure 3
Site Map
Pure Resources
Catclaw Draw Unit #21

Eddy County, New Mexico
 NE 1/4 of the NW 1/4, Sec. 14, T21S, R25E
 N 32° 29' 05.59" W 103° 22' 08.83"
 Elevation: 3,297 feet amsl

DWG By: Daniel Dominguez
 March 2006

REVISIONS:
 SHEET
 1 of 1

0 30 60
 Feet

Legend
 (W) Oil Well
 X Sample Location

N

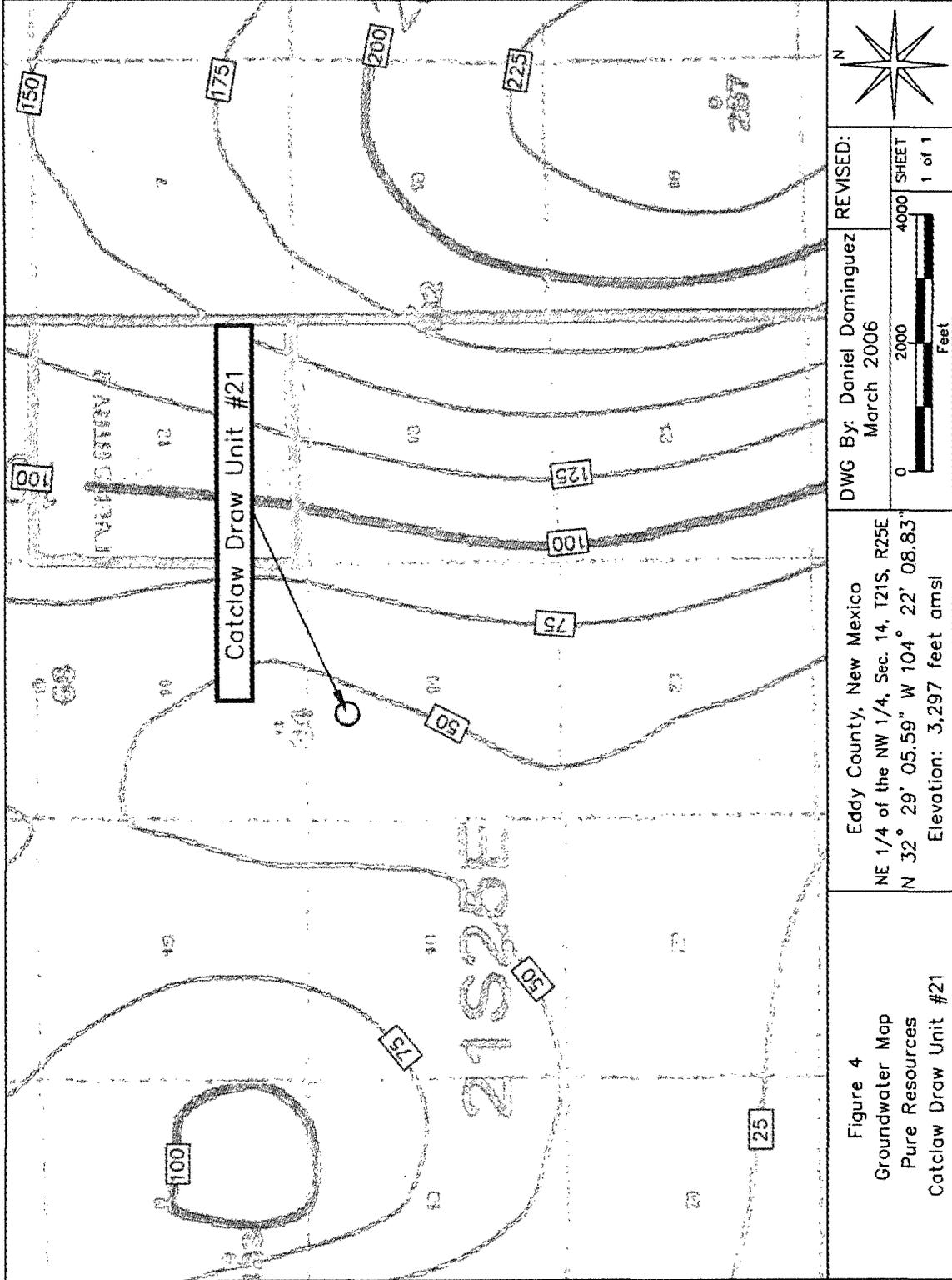




TABLE 1
WELL INFORMATION REPORT*
Pure Resources Catclaw Draw Unit #21 - Ref #200078

Well Number	Diversion ^A	Owner	Use	Twsp	Rng	Sec q q q	Latitude	Longitude	Date Measured	Surface Elevation ^B	Depth to Water (ft bgs)
C 00550	3	WILL TRUITT	STK	21S	25E	11 2 1 1	N32° 29' 53.01"	W104° 21' 54.62"	12-Apr-56	3,294	
C 01166	3	WILMA D. TRUITT	PRO	21S	25E	11 3 1	N32° 29' 25.22"	W104° 22' 25.95"		3,360	
C 02268 ^C	0	WILMA D. TRUITT	STK	21S	25E	11 3 4 1	N32° 29' 11.43"	W104° 22' 10.66"	31-Dec-41	3,282	25
C 01399	3	MORAN OIL P. & D. CORP.	PRO	21S	25E	15 2 3 3	N32° 28' 45.23"	W104° 22' 57.13"		3,404	
USGS #1				21S	25E	11 2 1 1			12-Jan-78	3,268	67.99
USGS #2				21S	25E	11 3 4 3			20-Nov-92	3,278	34.09
C 01451	3	WATTS LAND & CATTLE	STK	21S	25E	22 3 3	N32° 27' 26.37"	W104° 23' 28.16"	06-Jun-71	3,404	260

* = Data obtained from the New Mexico Office of the State Engineer Website (http://twaters.ose.state.nm.us:7001/IWATERS/wr_RegisServlet) and USGS Database.

^A = in acre feet per annum

^B = Interpolated from USGS Topographical Map

^C = Wells C-02268 and USGS #1 are probably the same well. Well C-02268 could not be located in the field.

STK = 72-12-1 Livestock watering

PRO = 72-12-1 Prospecting or development of natural resource

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

(quarters are biggest to smallest - X Y are in Feet - UTM are in Meters)

Shaded area indicates wells not shown on Figure 2



TABLE 2
Chevron USA
Catclaw Draw #21 Pit Analytical Results Summary

Sample Location	Sampling Interval (FT. BGS ¹)	SAMPLE ID#	Date	Lithology	Status	GRO ³ mg/Kg	DRO ⁴ mg/Kg	TPH ⁵ mg/Kg	BTEX mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethylbenzene mg/Kg
East Perimeter	6-8	East Perimeter	7/28/2006	Caliche	in-situ	<10.0	<10.0	<10.0	<0.015	<0.005	<0.005	<0.005
West Perimeter	6-8	West Perimeter	7/28/2006	Caliche/Rock	in-situ	<10.0	<10.0	<10.0	<0.015	<0.005	<0.005	<0.005
South Perimeter	6-8	South Perimeter	7/28/2006	Caliche	in-situ	<10.0	<10.0	<10.0	<0.015	<0.005	<0.005	<0.005
North Perimeter	6-8	North Perimeter	7/28/2006	Caliche/Rock	in-situ	<10.0	<10.0	<10.0	0.010	<0.005	0.010	<0.005
Stiffened Pit Contents	4	Stiffened Pit Contents	7/28/2006	Sand	in-situ	<10.0	583	583	0.007	<0.005	0.007	<0.005
North Pit	0-1	North Pit	7/28/2006	Clayey Sand	in-situ	<10.0	<10.0	<10.0	<0.015	<0.005	<0.005	<0.005
New Mexico Oil Conservation Division Remedial Goals												
										50	10	

¹VOC - Volatile Organic Contaminants/Constituents

²GRO - Gasoline Range Organics C₆-C₁₀

³DRO - Diesel Range Organics C₁₀-C₂₈

⁴TPH - Total Petroleum Hydrocarbon = GRO+DRO.

⁵Bolded values are in excess of the New Mexico Oil Conservation Division guideline threshold for the parameter

⁶Italicized values are < the instrument detection limit.

⁷na - Not Analyzed (-) indicates the sample was not collected due to refusal.

Reported detection limits are considered "de minimus" values and are included in the GRO/DRO and BTEX summations.

WQCC - (New Mexico Water Quality Control Commission) Chloride residuals cannot be capable of impacting local groundwater in excess of the 250 mg/L WQCC standard.



PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

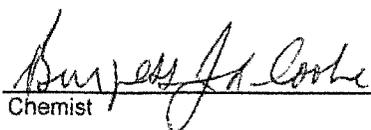
ANALYTICAL RESULTS FOR
 ENVIRONMENTAL PLUS, INC.
 ATTN: PAT McCASLAND
 P.O. BOX 1558
 EUNICE, NM 88231
 FAX TO: (505) 394-2601

Receiving Date: 07/28/06
 Reporting Date: 08/01/06
 Project Owner: CHEVRON TEXACO (#200078)
 Project Name: CATCLAW DRAW #21 PIT
 Project Location: NOT GIVEN

Sampling Date: 07/28/06
 Sample Type: SOIL
 Sample Condition: COOL & INTACT
 Sample Received By: BC
 Analyzed By: BC

LAB NO.	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
	ANALYSIS DATE	07/31/06	07/31/06	07/31/06	07/31/06
H11395-1	EAST PERIMETER	<0.005	<0.005	<0.005	<0.015
H11395-2	WEST PERIMETER	<0.005	<0.005	<0.005	<0.015
H11395-3	SOUTH PERIMETER	<0.005	0.005	<0.005	<0.015
H11395-4	NORTH PERIMETER	<0.005	0.010	<0.005	<0.015
H11395-5	STIFFENED PIT CONTENTS	<0.005	0.007	<0.005	<0.015
H11395-6	NORTH PIT	<0.005	<0.005	<0.005	<0.015
	Quality Control	0.100	0.105	0.106	0.299
	True Value QC	0.100	0.100	0.100	0.300
	% Recovery	99.6	105	106	99.7
	Relative Percent Difference	<0.1	6.7	7.8	2.0

METHOD: EPA SW-846 8260


 Chemist

8/1/06
 Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

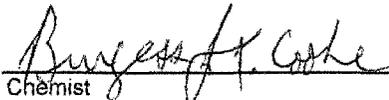
ANALYTICAL RESULTS FOR
 ENVIRONMENTAL PLUS, INC.
 ATTN: PAT McCASLAND
 P.O. BOX 1558
 EUNICE, NM 88231
 FAX TO: (505) 394-2601

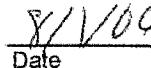
Receiving Date: 07/28/06
 Reporting Date: 08/01/06
 Project Owner: CHEVRON TEXACO (#200078)
 Project Name: CATCLAW DRAW #21 PIT
 Project Location: NOT GIVEN

Sampling Date: 07/28/06
 Sample Type: SOIL
 Sample Condition: COOL & INTACT
 Sample Received By: BC
 Analyzed By: BC/AB

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	CI* (mg/Kg)
	ANALYSIS DATE	07/31/06	07/31/06	07/31/06
H11395-1	EAST PERIMETER	<10.0	<10.0	160
H11395-2	WEST PERIMETER	<10.0	<10.0	64
H11395-3	SOUTH PERIMETER	<10.0	<10.0	864
H11395-4	NORTH PERIMETER	<10.0	<10.0	62
H11395-5	STIFFENED PIT CONTENTS	<10.0	583	42000
H11395-6	NORTH PIT	<10.0	<10.0	1280
	Quality Control	780	770	990
	True Value QC	800	800	1000
	% Recovery	97.5	96.2	99.0
	Relative Percent Difference	0.9	7.2	1.0

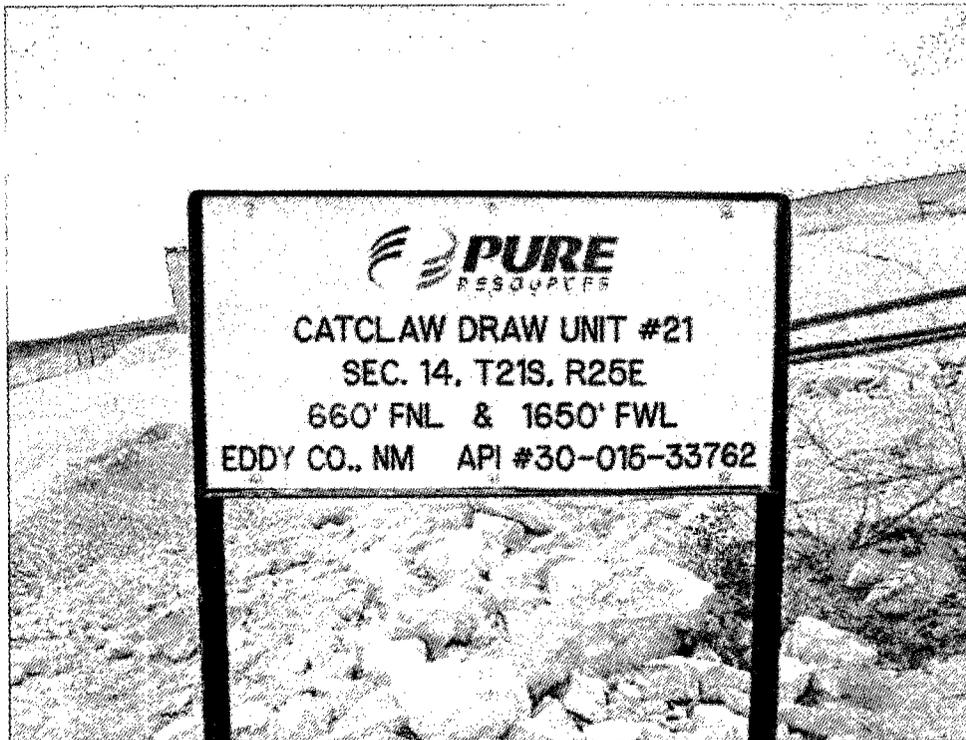
METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-C1B
 *Analyses performed on 1:4 w:v aqueous extracts.


 Chemist

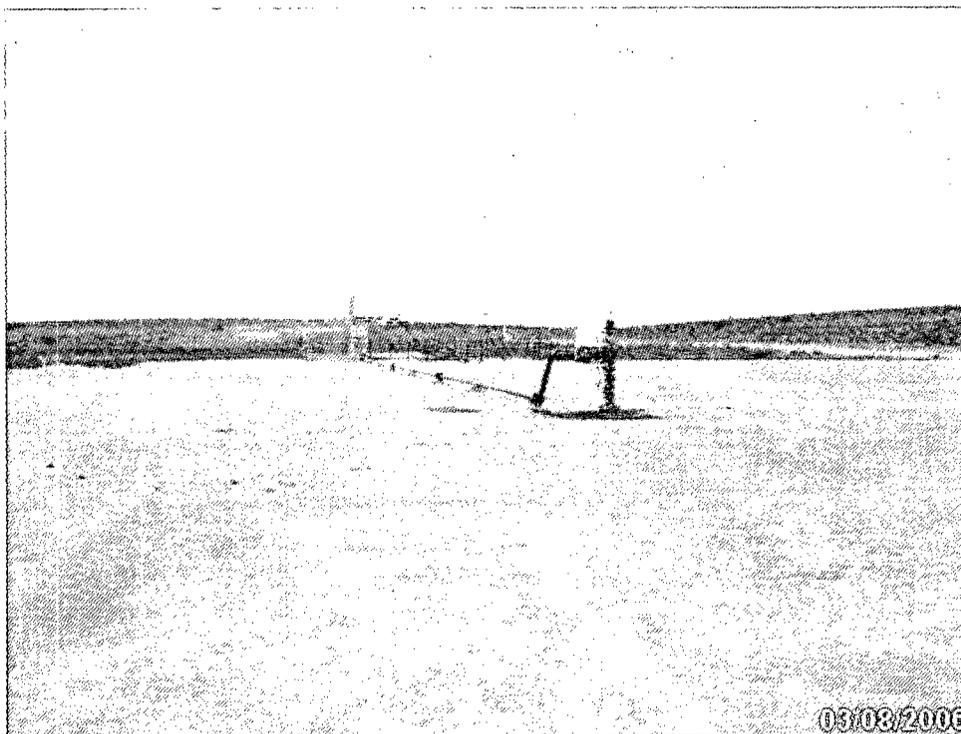

 Date

H11395A

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



Photograph #1- Lease sign.



Photograph #2 - Pit and berm looking southeast.



Photograph #3 - Pit and berm looking southeast.



Photograph #4 - Pit and berm looking southeast.

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

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-144
June 1, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes No

Type of action: Registration of a pit or below-grade tank Closure of a pit or below-grade tank

Operator: Chevron USA O-Grid #4323 (Pure Resources O-Grid #150628) Telephone: 505.394.1237 e-mail address: LDuk@chevron.com		
Address: PO Box 1949 2401 Avenue O Eunice, New Mexico 88231		
Facility or well name: Catclaw Draw Unit #21 API #: 30-025-33762 Unit Letter (UL): C Qtr/Qtr: NE¼ NW¼ Section: 14, T21S, R25E		
County: Eddy Latitude: N 32°29'05.59" Longitude: W 104°22'08.83" NAD: 1927 <input type="checkbox"/> 1983 <input type="checkbox"/> WGS 84 <input checked="" type="checkbox"/>		
Surface Owner: Federal <input type="checkbox"/> State <input checked="" type="checkbox"/> Private <input type="checkbox"/> Indian <input type="checkbox"/>		
Pit	Below-grade tank	
Type: Drilling <input checked="" type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/>	Volume: bbl Type of fluid:	
Lined <input checked="" type="checkbox"/> Unlined <input type="checkbox"/>	Construction material:	
Liner type: Synthetic <input checked="" type="checkbox"/> Thickness <u>12</u> mil Clay <input type="checkbox"/>	Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not.	
Pit Volume: ~3,000 bbl		
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.) ~56' bgs	Less than 50 feet	(20 points) <input type="checkbox"/>
	50 feet or more, but less than 100 feet	(10 points) <input checked="" type="checkbox"/>
	100 feet or more	(0 points) <input type="checkbox"/>
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes	(20 points) <input type="checkbox"/>
	No	(0 points) <input checked="" type="checkbox"/>
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet	(20 points) <input type="checkbox"/>
	200 feet or more, but less than 1,000 feet	(10 points) <input type="checkbox"/>
	1,000 feet or more	(0 points) <input checked="" type="checkbox"/>
Ranking Score (Total Points)		10

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite offsite If offsite, name of facility Lea Land. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No Yes 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.

Additional Comments: It is proposed to close this pit consistent with the "ChevronTexaco Drilling and Reserve Pit Closure General Plan, December 2004" and the NMOCD Pit and Below-Grade Tank Guidelines, November 1, 2004 as promulgated under NMOCD Rule 50 (19.15.2.50 NMAC).

Pit Status: Liner intact Liner punctured or torn

Method of Closure: The contents of the pit will be stiffened and encapsulated on site. Approximately 50% of the pit volume, i.e., 600 cubic yards, will be disposed of. Encapsulation will consist of mixing earthen materials with the pit contents, as necessary to stiffen the pit contents sufficiently to provide physical stability and support the pit cover. Upon the pit contents being stiffened as required, the edges of the liner will be folded over the edges of the stiffened mud and cuttings and the pit will be covered with a 20-mil thick impervious, reinforced synthetic or fabricated liner meeting ASTM standards that is designed to be resistant to the material encapsulated. The liner will then be covered with a minimum of three feet of clean soil or like material that is capable of supporting native plant growth.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank will be closed according to NMOCD guidelines , a general permit , or an (attached) alternative OCD-approved plan .

Date: _____ Printed Name/Title Jim Duke, Construction Representative Signature _____

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:
Printed Name/Title _____ Signature _____ Date: _____

Price, Wayne, EMNRD

From: Price, Wayne, EMNRD
Sent: Friday, December 08, 2006 11:50 AM
To: 'Pat Mccasland'; 'Duke, James (LDUK)'
Subject: RE: Chevron Catclaw Draw Unit #21 Alternative Pit Closure C-144

Pursuant to my discussion with Pat McCasland, OCD would entertain a proposal that includes removing the area where the salt concentration is highest. Please re-submit if you wish to proceed in this manner.

From: Pat Mccasland [mailto:pmccasland@envplus.net]
Sent: Monday, December 04, 2006 4:02 PM
To: 'Duke, James (LDUK)'
Cc: Price, Wayne, EMNRD
Subject: RE: Chevron Catclaw Draw Unit #21 Alternative Pit Closure C-144

Jim,

Wayne Price returned my call this afternoon but I was out of the office. I called him back and left another message. I will try again tomorrow.

Pat

From: Duke, James (LDUK) [mailto:LDUK@chevron.com]
Sent: Sunday, December 03, 2006 8:12 PM
To: Pat Mccasland
Subject: RE: Chevron Catclaw Draw Unit #21 Alternative Pit Closure C-144

Pat,

Please let me know what you find out Mondat ASAP.

Thanks,
Jim Duke
Construction Representative - New Mexico

MidContinent SBU
Chevron North America Upstream
Exploration And Production Company
2401 Avenue O, Eunice, NM 88231
Tel (505) 394-1201 Fax (505) 394-1215
Mobile (505) 390-7225
<mailto:lduk@chevron.com>

12/8/2006

From: Pat Mccasland [mailto:pmccasland@envplus.net]
Sent: Saturday, December 02, 2006 10:46 AM
To: Wayne Price
Cc: Mike Bratcher; Tim Gum (NMOCD-Artesia); Duke, James (LDUK); Minchew, Phillip W (Wayne); Gerry Guye (NMOCD-Artesia); 'Cody Miller'; Cody Miller; Daniel Dominguez (EPI); Dave Duncan (EPI); 'EPI'; Janet Peterson; 'Jason Stegemoller'; Jessica Harper (EPI); 'Roger Boone'
Subject: FW: Chevron Catclaw Draw Unit #21 Alternative Pit Closure C-144

Mr. Price,

Environmental Plus, Inc. (EPI), on behalf of Chevron, submits the attached C-144 proposing alternative closure of the Chevron Catclaw Draw #21 drill pit. This document was previously submitted to Mr. Gerry Guye of the Artesia NMOCD office for approval. Mr. Guye subsequently turned the pit closure over to Mr. Mike Bratcher (NMOCD Artesia). After review, Mr. Bratcher said that approval of this proposal must come from the Santa Fe office. I will follow-up with a telephone call to you on Monday (12-4-06).

Sincerely,

Pat McCasland
 Senior Consultant & Safety Director
 HydroTech Services, LLC and Environmental Plus, Inc.
 P.O. Box 1558
 2100 Avenue O
 Eunice, New Mexico 88231

Office: 505.394.3481
 Cellular: 505.390.7864
 FAX: 505.394.2601
 address: pmccasland@envplus.net

From: Pat Mccasland [mailto:pmccasland@envplus.net]
Sent: Friday, October 13, 2006 12:36 PM
To: Gerry Guye (NMOCD-Artesia)
Cc: Wayne Price; Wayne Minchew (PMinchew@Chevron.com); Jim Duke (LDuk@Chevron.com); Thaddeus Kostrubala (NMSLO); 'Cody Miller'; Cody Miller (CMMG142@AOL.com); Daniel Dominguez (EPI); Dave Duncan (EPI); 'EPI'; Janet Peterson; 'Jason Stegemoller'; Jessica Harper (EPI); 'Roger Boone'
Subject: Chevron Catclaw Draw Unit #21 Alternative Pit Closure C-144

Mr. Guye,

Attached for your consideration and approval is the Chevron Catclaw Draw Unit #21 Alternative Pit Closure C-144 and supporting documentation being submitted by Environmental Plus, Inc. (EPI) on behalf of Chevron USA. Hard copies will follow.

Please call if more information is needed or questions arise.

Sincerely,

Pat McCasland

12/8/2006

Senior Consultant & Safety Director
HydroTech Services, LLC and Environmental Plus, Inc.
P.O. Box 1558
2100 Avenue O
Eunice, New Mexico 88231

Office: 505.394.3481
Cellular: 505.390.7864
FAX: 505.394.2601
address: pmccasland@envplus.net

Price, Wayne, EMNRD

From: Pat Mccasland [pmccasland@envplus.net]
Sent: Monday, December 04, 2006 4:02 PM
To: 'Duke, James (LDUK)'
Cc: Price, Wayne, EMNRD
Subject: RE: Chevron Catclaw Draw Unit #21 Alternative Pit Closure C-144

Jim,

Wayne Price returned my call this afternoon but I was out of the office. I called him back and left another message. I will try again tomorrow.

Pat

From: Duke, James (LDUK) [mailto:LDUK@chevron.com]
Sent: Sunday, December 03, 2006 8:12 PM
To: Pat Mccasland
Subject: RE: Chevron Catclaw Draw Unit #21 Alternative Pit Closure C-144

Pat,

Please let me know what you find out Mondat ASAP.

Thanks,
Jim Duke
Construction Representative - New Mexico

MidContinent SBU
Chevron North America Upstream
Exploration And Production Company
2401 Avenue O, Eunice, NM 88231
Tel (505) 394-1201 Fax (505) 394-1215
Mobile (505) 390-7225
<mailto:lduk@chevron.com>

From: Pat Mccasland [mailto:pmccasland@envplus.net]
Sent: Saturday, December 02, 2006 10:46 AM
To: Wayne Price
Cc: Mike Bratcher; Tim Gum (NMOCD-Artesia); Duke, James (LDUK); Minchew, Phillip W (Wayne); Gerry Guye (NMOCD-Artesia); 'Cody Miller'; Cody Miller; Daniel Dominguez (EPI); Dave Duncan (EPI); 'EPI'; Janet Peterson; 'Jason Stegemoller'; Jessica Harper (EPI); 'Roger Boone'
Subject: FW: Chevron Catclaw Draw Unit #21 Alternative Pit Closure C-144

Mr. Price,

12/8/2006

Environmental Plus, Inc. (EPI), on behalf of Chevron, submits the attached C-144 proposing alternative closure of the Chevron Catclaw Draw #21 drill pit. This document was previously submitted to Mr. Gerry Guye of the Artesia NMOCD office for approval. Mr. Guye subsequently turned the pit closure over to Mr. Mike Bratcher (NMOCD Artesia). After review, Mr. Bratcher said that approval of this proposal must come from the Santa Fe office. I will follow-up with a telephone call to you on Monday (12-4-06).

Sincerely,

Pat McCasland
Senior Consultant & Safety Director
HydroTech Services, LLC and Environmental Plus, Inc.
P.O. Box 1558
2100 Avenue O
Eunice, New Mexico 88231

Office: 505.394.3481
Cellular: 505.390.7864
FAX: 505.394.2601
address: pmccasland@envplus.net

From: Pat Mccasland [mailto:pmccasland@envplus.net]
Sent: Friday, October 13, 2006 12:36 PM
To: Gerry Guye (NMOCD-Artesia)
Cc: Wayne Price; Wayne Minchew (PMinchew@Chevron.com); Jim Duke (LDuk@Chevron.com); Thaddeus Kostrubala (NMSLO); 'Cody Miller'; Cody Miller (CMMG142@AOL.com); Daniel Dominguez (EPI); Dave Duncan (EPI); 'EPI'; Janet Peterson; 'Jason Stegemoller'; Jessica Harper (EPI); 'Roger Boone'
Subject: Chevron Catclaw Draw Unit #21 Alternative Pit Closure C-144

Mr. Guye,

Attached for your consideration and approval is the Chevron Catclaw Draw Unit #21 Alternative Pit Closure C-144 and supporting documentation being submitted by Environmental Plus, Inc. (EPI) on behalf of Chevron USA. Hard copies will follow.

Please call if more information is needed or questions arise.

Sincerely,

Pat McCasland
Senior Consultant & Safety Director
HydroTech Services, LLC and Environmental Plus, Inc.
P.O. Box 1558
2100 Avenue O
Eunice, New Mexico 88231

Office: 505.394.3481
Cellular: 505.390.7864
FAX: 505.394.2601

12/8/2006

address: pmccasland@envplus.net

Price, Wayne, EMNRD

From: Pat Mccasland [pmccasland@envplus.net]
Sent: Saturday, December 02, 2006 9:46 AM
To: Price, Wayne, EMNRD
Cc: Bratcher, Mike, EMNRD; Gum, Tim, EMNRD; Jim Duke; Wayne Minchew; Guye, Gerry, EMNRD; 'Cody Miller'; Cody Miller; Daniel Dominguez (EPI); Dave Duncan (EPI); 'EPI'; Janet Peterson; 'Jason Stegemoller'; Jessica Harper (EPI); 'Roger Boone'
Subject: FW: Chevron Catclaw Draw Unit #21 Alternative Pit Closure C-144
Attachments: Catclaw Draw #21 C-144 Alternative Closure.pdf

Mr. Price,

Environmental Plus, Inc. (EPI), on behalf of Chevron, submits the attached C-144 proposing alternative closure of the Chevron Catclaw Draw #21 drill pit. This document was previously submitted to Mr. Gerry Guye of the Artesia NMOCD office for approval. Mr. Guye subsequently turned the pit closure over to Mr. Mike Bratcher (NMOCD Artesia). After review, Mr. Bratcher said that approval of this proposal must come from the Santa Fe office. I will follow-up with a telephone call to you on Monday (12-4-06).

Sincerely,

Pat McCasland
 Senior Consultant & Safety Director
 HydroTech Services, LLC and Environmental Plus, Inc.
 P.O. Box 1558
 2100 Avenue O
 Eunice, New Mexico 88231

Office: 505.394.3481
 Cellular: 505.390.7864
 FAX: 505.394.2601
 address: pmccasland@envplus.net

From: Pat Mccasland [mailto:pmccasland@envplus.net]
Sent: Friday, October 13, 2006 12:36 PM
To: Gerry Guye (NMOCD-Artesia)
Cc: Wayne Price; Wayne Minchew (PMinchew@Chevron.com); Jim Duke (LDuk@Chevron.com); Thaddeus Kostrubala (NMSLO); 'Cody Miller'; Cody Miller (CMMG142@AOL.com); Daniel Dominguez (EPI); Dave Duncan (EPI); 'EPI'; Janet Peterson; 'Jason Stegemoller'; Jessica Harper (EPI); 'Roger Boone'
Subject: Chevron Catclaw Draw Unit #21 Alternative Pit Closure C-144

Mr. Guye,

Attached for your consideration and approval is the Chevron Catclaw Draw Unit #21 Alternative Pit Closure C-144 and supporting documentation being submitted by Environmental Plus, Inc. (EPI) on behalf of Chevron USA. Hard copies will follow.

12/8/2006

Please call if more information is needed or questions arise.

Sincerely,

Pat McCasland
Senior Consultant & Safety Director
HydroTech Services, LLC and Environmental Plus, Inc.
P.O. Box 1558
2100 Avenue O
Eunice, New Mexico 88231

Office: 505.394.3481
Cellular: 505.390.7864
FAX: 505.394.2601
address: pmccasland@envplus.net



ENVIRONMENTAL PLUS, INC.
CONSULTING AND REMEDIAL CONSTRUCTION

December 12, 2006

Mr. Wayne Price, Chief
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division Environmental Bureau
P. O. Box 6429
1220 S St. Francis Drive
Santa Fe, New Mexico 87505

Re: C-144 – Alternative Closure Proposal (Revised)
Chevron USA (O-Grid #4323)
Pure Resources (O-Grid #150628) Catclaw Draw Unit #21 (Ref. #200078)
UL-C, Section 14, Township 21 South, Range 25 East, Eddy County, New Mexico
Latitude: N 32°29'05.59" and Longitude: W 104°22'08.83"

Dear Mr. Price:

Environmental Plus, Inc. (EPI), on behalf of Chevron USA (Chevron) (Pure Resources) submits the enclosed New Mexico Oil Conservation Division (NMOCD) form C-144 and supporting information proposing an alternative closure at this site. The alternative closure proposes encapsulating the intact pit in place even though the bottom of the pit will be less than 50-feet from the groundwater, (i.e., the bottom of the existing pit is approximately 48-feet from the groundwater interface).

BACKGROUND

Initially, Chevron proposed closing the drill pit via encapsulation in accordance with the NMOCD Pit and Below-Grade Tank Guidelines, November 1, 2004 and the "ChevronTexaco Drilling and Reserve Pit Closure General Plan, December 2004" and was based on the following discussion and rationale.

The Chevron groundwater contour map indicates the groundwater underlying the Catclaw Draw #21 drill pit to be less than 50-feet bgs, however, after review of available water level information from the USGS and the New Mexico Office of the State Engineer (reference *Table 1*), the depth to groundwater at the site is calculated to be approximately 56-feet bgs and was derived as follows. The nearest water well to the Catclaw Draw #21 well site is down-gradient approximately 1,400-feet to the north northeast and has a 1992 USGS water level measurement of 34-feet below ground surface (bgs). On July 28, 2006, the groundwater level in this well was measured to be 35.0-feet bgs. The surface elevation of the windmill, as extrapolated from the USGS topographical map, is approximately 3,278-feet amsl. The calculated groundwater table elevation is 3,244-feet amsl, (i.e., 3,278 – 34 = 3,244). The surface elevation at the Catclaw Draw #21 well site, as extrapolated from the USGS topographical map, is 3,300-feet amsl. Reasonably assuming that the groundwater



table elevation under the well site is also 3,244-feet amsl, the calculated depth to groundwater is 56-feet amsl.

Mr. Van Barton, Compliance Officer, NMOCD Artesia Field Office, said that he would grant approval of the encapsulation proposal if the bottom of the pit was greater than 50-feet from groundwater. However, because the pit is approximately 8-feet deep and the groundwater is approximately 56-feet below the land surface where the drill pit was constructed, the bottom of the encapsulated pit is only 48-feet from the groundwater, negating local NMOCD approval. Mr. Barton said that encapsulation proposals of pits less than 50-feet from groundwater could be submitted to the Santa Fe office of the NMOCD for consideration and approved, if deemed technically acceptable. Mr. Wayne Price, NMOCD Santa Fe office, said that he could possibly approve the alternative closure proposal if the pit liner was intact and fluids had not been released from the pit, as evidenced by analysis of soil samples collected from perimeter locations adjacent to the pit at 4-feet to 8-feet bgs. Subsequently, on July 28, 2006, after timely notification of the Artesia and Santa Fe NMOCD offices, samples of the soil from the perimeter locations adjacent to the pit were collected and submitted to the laboratory for analysis. The laboratory reports are attached and the results summarized in *Table 2*.

PIT PERIMETER SAMPLES ANALYTICAL RESULTS

According to the analytical results, benzene, toluene, ethylbenzene and total xylenes (BTEX) and total petroleum hydrocarbon (TPH) are not an issue inside or outside the pit. Chloride results from analysis of the east perimeter, west perimeter and the north perimeter soil samples collected from 6-feet to 8-feet bgs were less than 250 mg/Kg. The chloride concentration in the south perimeter sample collected from 6-feet to 8-feet bgs beneath the caliche well pad was 864 mg/Kg and probably resulted from well pad activities rather than being from the pit. It can be concluded from the analytical results from the perimeter samples that the pit did not over-flow.

NORTH PIT SAMPLE ANALYTICAL RESULTS

A soil sample was collected from an unlined but fenced surface depression north of the lined drill pit to delineate/verify possible drilling fluid impact. Total petroleum hydrocarbon and benzene, toluene, ethylbenzene and total xylenes (BTEX) were not detected above the respective method detection limits. The chloride concentration was 1,280 mg/Kg. Given that the chloride concentration of the stiffened pit contents is 42,000 mg/Kg, it is not reasonable to conclude that the chloride residual in the north pit emanated from the drill pit, but will require remediation.

ALTERNATIVE CLOSURE PROPOSAL REQUEST

Given that the pit liner is intact and the laboratory results from analysis of the soil samples collected from locations adjacent to the perimeter of the pit support the conclusion that the pit did not over-flow into the surrounding environment, it is proposed that a geotextile cushion be installed in the west part of the lined pit to ensure the integrity of the under liner, that the stiffened pit contents be evenly distributed over the pit and that a 20-mil reinforced polyethylene liner, cushioned above and below with geotextile, be installed over the stiffened pit contents. The pit will then be brought to grade with local soil/rock and the surface reseeded with the desires of the landowner. It is furthermore proposed that the impacted soils in the north pit be placed in the pit and encapsulated along with the drill pit contents and the excavated are tested to verify achievement of the NMOCD remedial goals. Additionally, in the event of a liner failure,



ENVIRONMENTAL PLUS, INC.
CONSULTING AND REMEDIAL CONSTRUCTION

to minimize the chloride source term that could potentially migrate to groundwater, approximately 50% of the stiffened drill pit volume will be disposed of off-site, (i.e., approximately 600 cubic yards). A final C-144 and supporting documentation will be submitted to the NMOCD upon completion of the project.

This proposal will be implemented upon approval by the NMOCD and consensus with the New Mexico State Land Office.

Please direct all official communications to:

Chevron USA
Jim Duke, Construction Representative
PO Box 1949
Eunice, New Mexico 88231
Telephone: 505.394.1237
Email: LDuk@chevron.com

Should you have any questions or concerns, please call me at (505) 394-3481 or Mr. Jim Duke at (505) 394-1237 or via e-mail at LDuk@chevron.com.

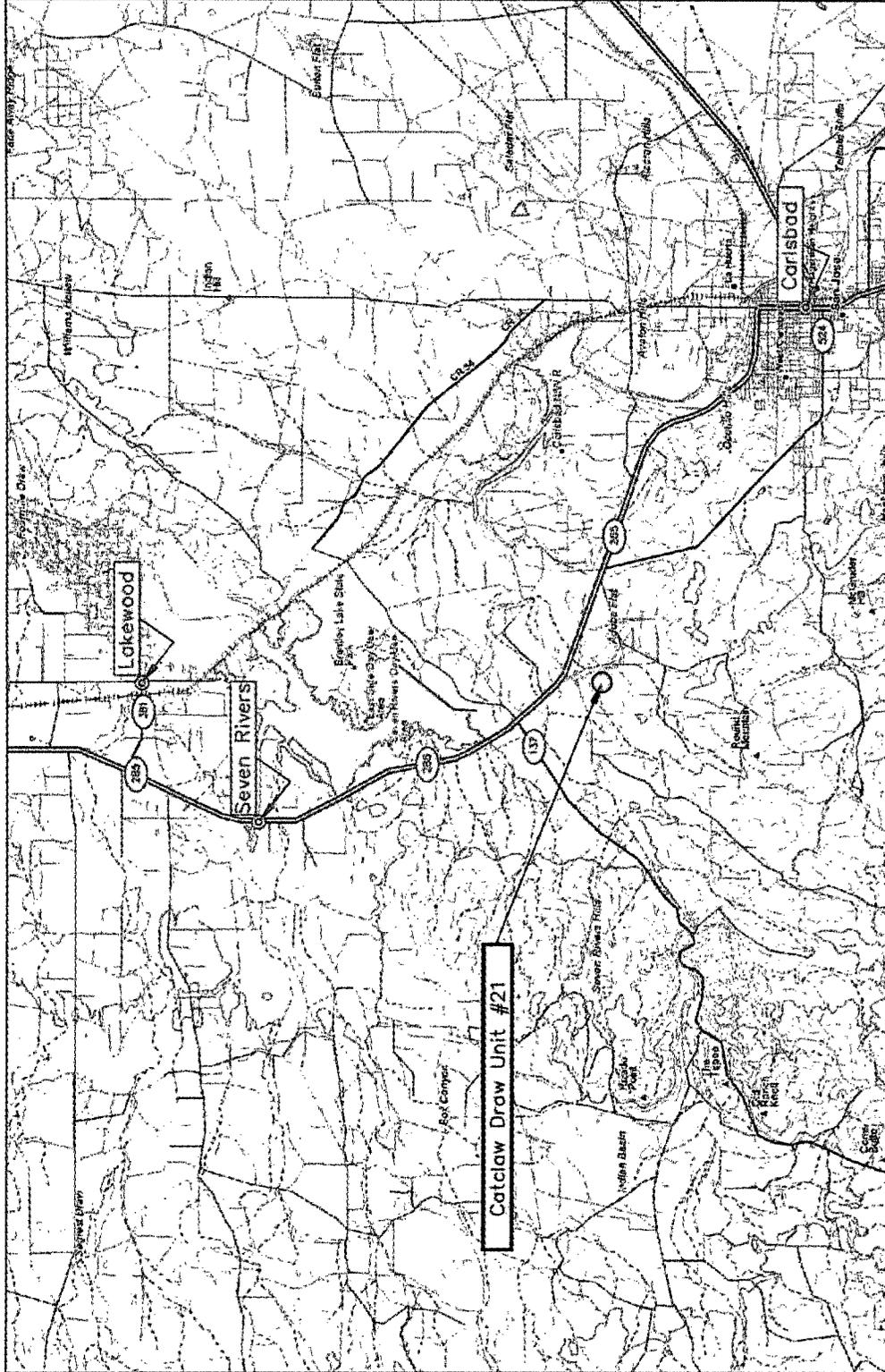
Sincerely,

ENVIRONMENTAL PLUS, INC.

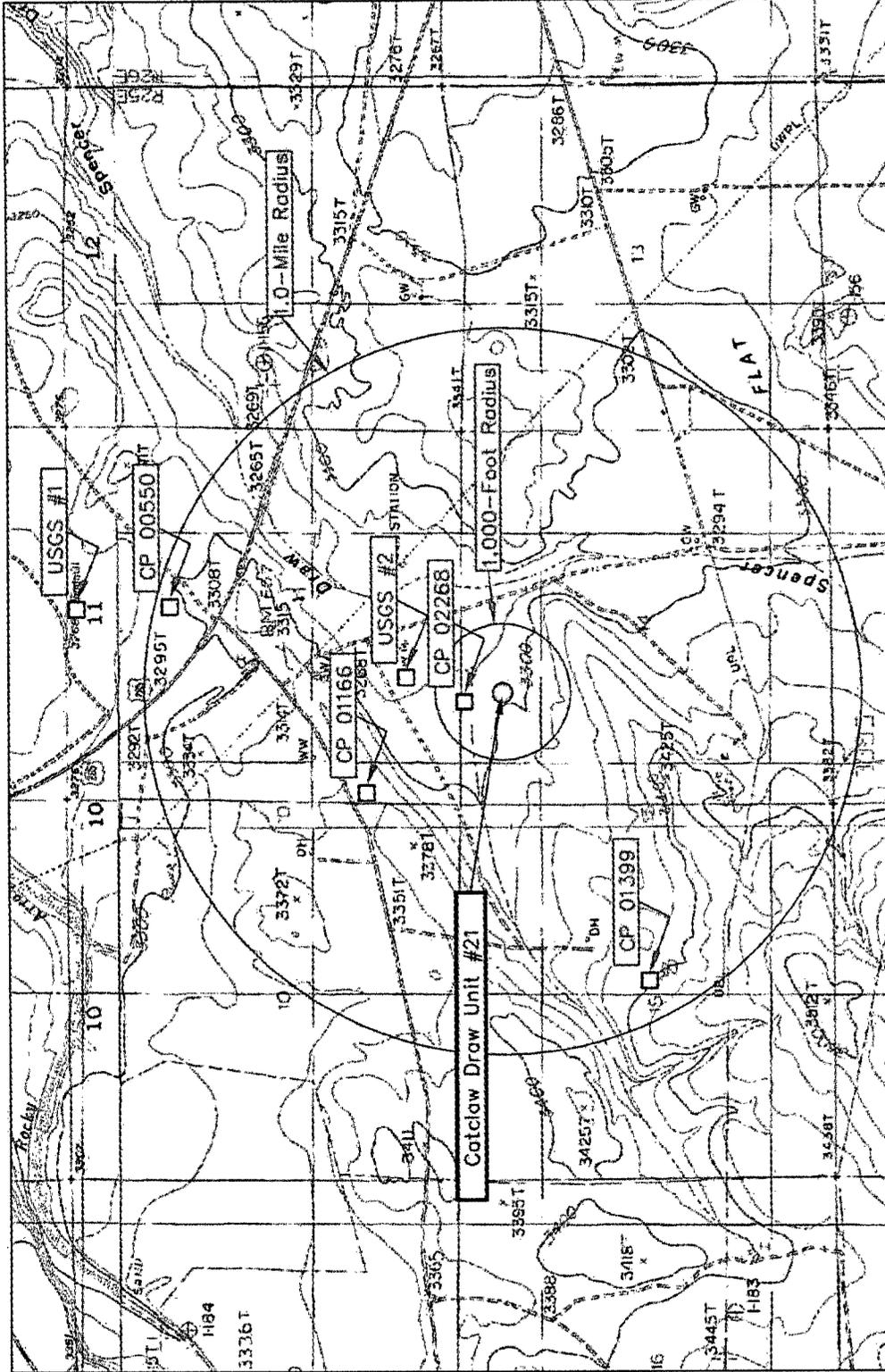
Pat McCasland
Senior Environmental Consultant

cc: Mike Bratcher, NMOCD Artesia
Jim Duke, Chevron USA
Wayne Minchew, Chevron USA
Thaddeus Kostrubala, State of New Mexico
file

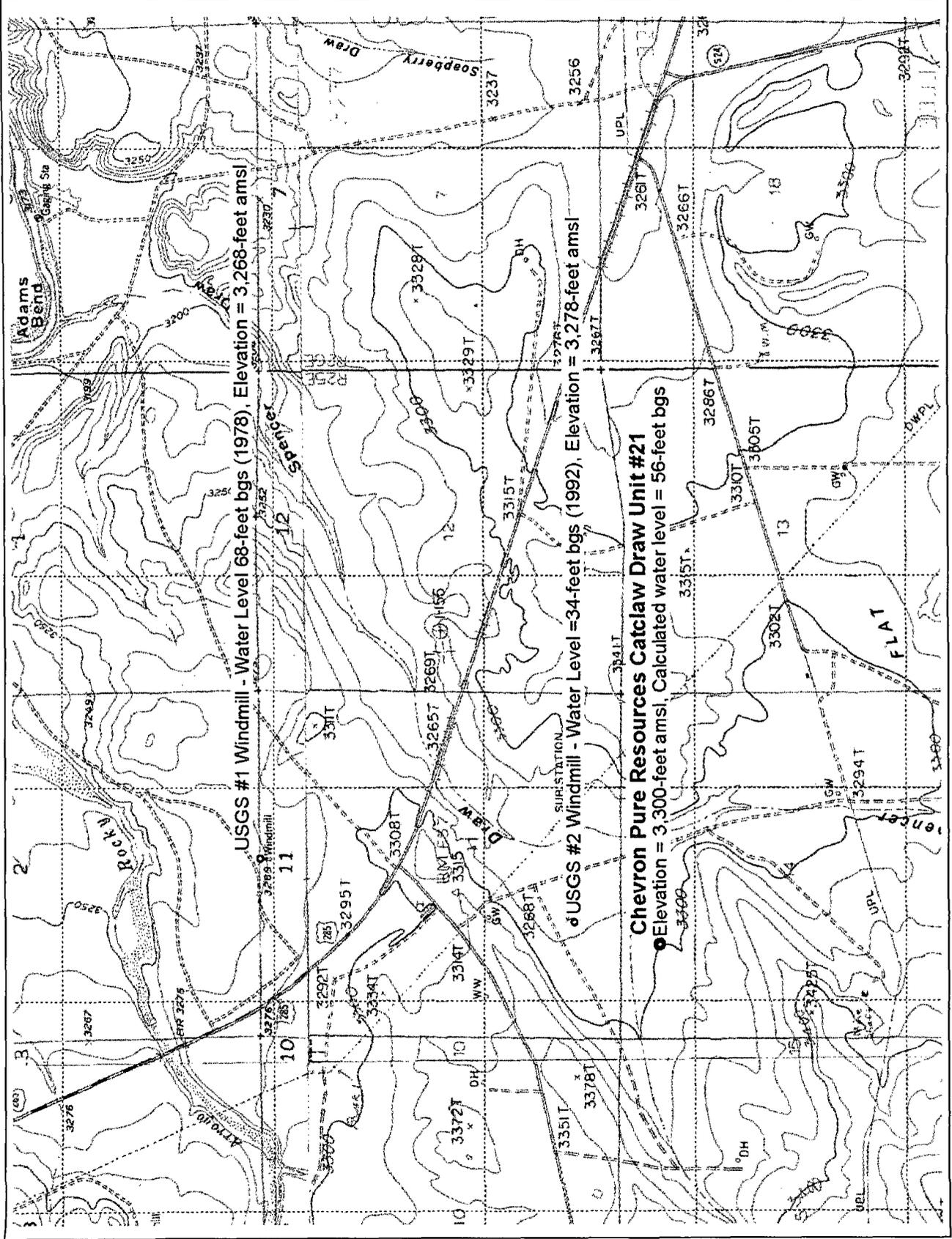
Enclosures: Topographical Map
Site Location Map
Site Map
Groundwater Map
Table 1 - Well Data
Table 2 - Analytical Results Summary
Laboratory Reports
Photographs
NMOCD Form C-144

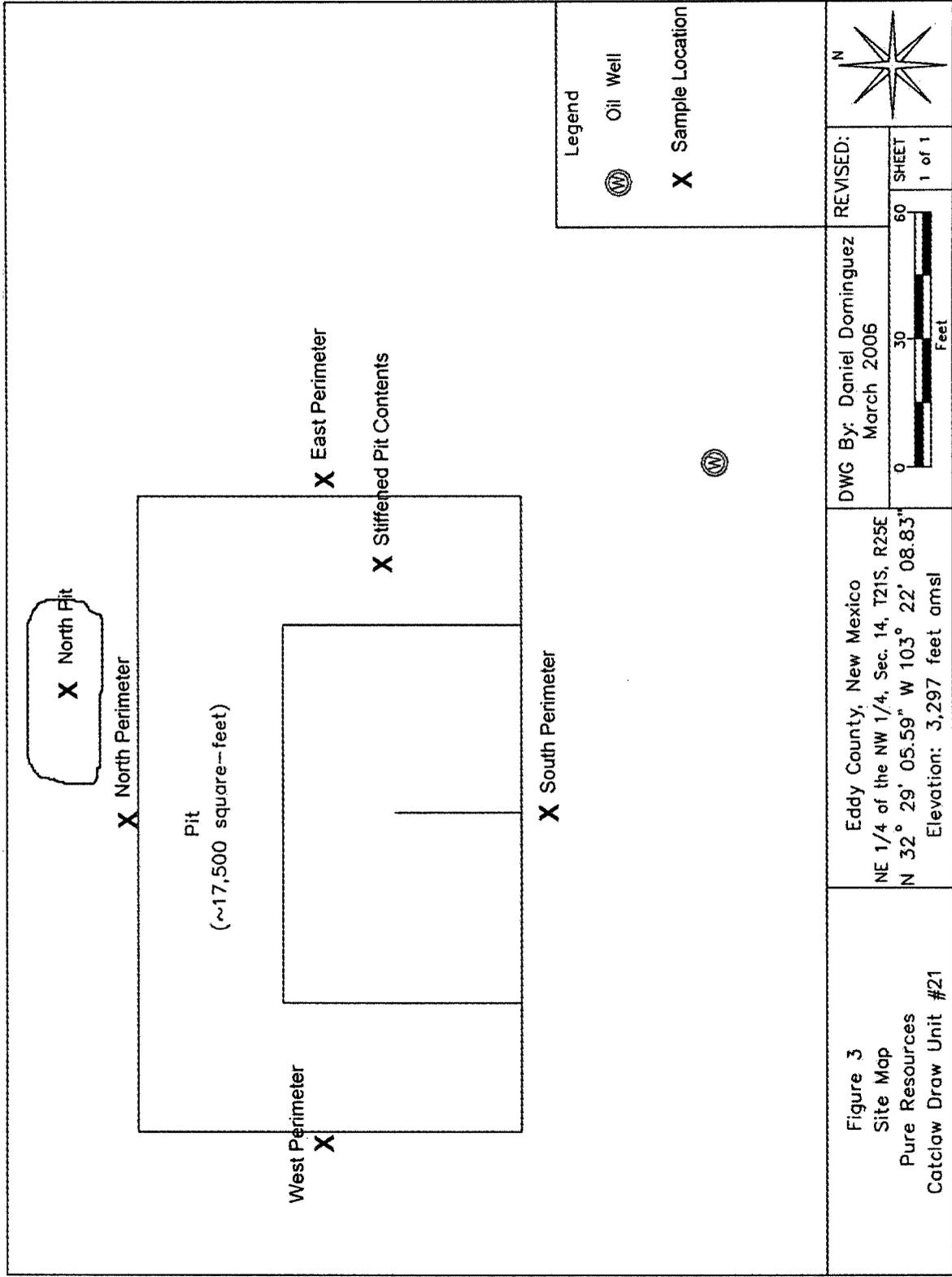


<p>Figure 1 Area Map Pure Resources Catchlaw Draw Unit #21</p>	<p>Eddy County, New Mexico NE 1/4 of the NW 1/4, Sec. 14, T21S, R25E N 32° 29' 05.59" W 104° 22' 08.83" Elevation: 3,297 feet amsl</p>	<p>DWG By: Daniel Dominguez March 2006</p> <p>REVISID:</p> <p>0 3 6 Miles</p> <p>SHEET 1 of 1</p>	
--	--	---	--

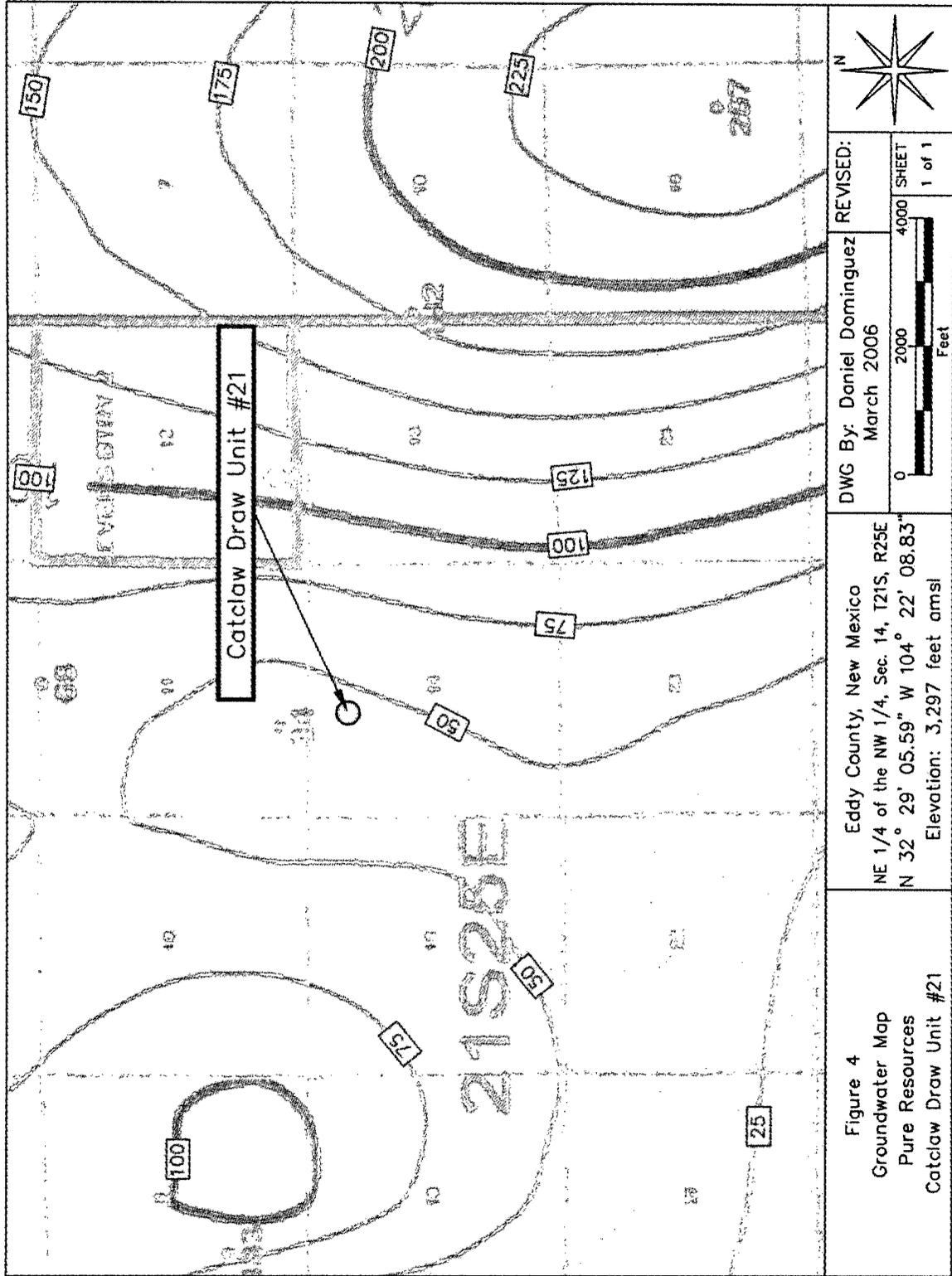


<p>Figure 2 Site Location Map Pure Resources Catalaw Draw Unit #21</p>	<p>Eddy County, New Mexico NE 1/4 of the NW 1/4, Sec. 14, T21S, R25E N 32° 29' 05.59" W 104° 22' 08.83" Elevation: 3,297 feet amsl</p>	<p>DWG By: Daniel Dominguez March 2006</p>	<p>REVISED:</p>
	<p>Scale: 0, 2000, 4000 Feet</p> <p>1 of 1 SHEET</p>		





<p>Figure 3 Site Map Pure Resources Catclaw Draw Unit #21</p>	<p>Eddy County, New Mexico NE 1/4 of the NW 1/4, Sec. 14, T21S, R25E N 32° 29' 05.59" W 103° 22' 08.83" Elevation: 3,297 feet amsl</p>	<p>DWG By: Daniel Dominguez March 2006</p> <p>REVISID: 60 SHEET 1 of 1</p>	
---	--	--	--



DWG By: Daniel Dominguez
March 2006

REVISED:

4000 SHEET
1 of 1

0 2000 4000
Feet

Eddy County, New Mexico
NE 1/4 of the NW 1/4, Sec. 14, T21S, R25E
N 32° 29' 05.59" W 104° 22' 08.83"
Elevation: 3,297 feet amsl

Figure 4
Groundwater Map
Pure Resources
Catchlaw Draw Unit #21



TABLE 1
WELL INFORMATION REPORT*
Pure Resources Catclaw Draw Unit #21 - Ref #200078

Well Number	Diversion ^A	Owner	Use	Twsp	Rng	Sec q q q	Latitude	Longitude	Date Measured	Surface Elevation	Depth to Water (ft bgs)
C 00550	3	WILL TRUITT	STK	21S	25E	11 2 1 1	N32° 29' 53.01"	W104° 21' 54.62"	12-Apr-56	3,294	
C 01166	3	WILMA D. TRUITT	PRO	21S	25E	11 3 1	N32° 29' 25.22"	W104° 22' 25.95"		3,360	
C 02268 ^C	0	WILMA D. TRUITT	STK	21S	25E	11 3 4 1	N32° 29' 11.43"	W104° 22' 10.66"	31-Dec-41	3,282	25
C 01399	3	MORAN OIL P.&D. CORP.	PRO	21S	25E	15 2 3 3	N32° 28' 45.23"	W104° 22' 57.13"		3,404	
USGS #1				21S	25E	11 2 1 1			12-Jan-78	3,268	67.99
USGS #2				21S	25E	11 3 4 3			20-Nov-92	3,278	34.09
C 01451	3	WATTS LAND & CATTLE	STK	21S	25E	22 3 3	N32° 27' 26.37"	W104° 23' 28.16"	06-Jun-71	3,404	260

* = Data obtained from the New Mexico Office of the State Engineer Website (http://iwaters.ose.state.nm.us:7001/IWATERS/mr_RegisServlet1) and USGS Database.

^A = in acre feet per annum

^B = Interpolated from USGS Topographical Map

^C = Wells C-02268 and USGS #1 are probably the same well. Well C-02268 could not be located in the field.

STK = 72-12-1 Livestock watering

PRO = 72-12-1 Prospecting or development of natural resource

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

(quarters are biggest to smallest - X Y are in Feet - UTM are in Meters)

Shaded area indicates wells not shown on Figure 2

TABLE 2
Chevron USA
Catclaw Draw #21 Pit Analytical Results Summary

Sample Location	Sampling Interval (FT, BGS)	SAMPLE ID#	Date	Lithology	Status	GRO ³ mg/Kg	DRO ⁴ mg/Kg	TPH ⁵ mg/Kg	BTEX mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethylbenzene mg/Kg	
East Perimeter	6-8	East Perimeter	7/28/2006	Caliche	in-situ	<10.0	<10.0	<10.0	<0.015	<0.005	<0.005	<0.005	
West Perimeter	6-8	West Perimeter	7/28/2006	Caliche/Rock	in-situ	<10.0	<10.0	<10.0	<0.015	<0.005	<0.005	<0.005	
South Perimeter	6-8	South Perimeter	7/28/2006	Caliche	in-situ	<10.0	<10.0	<10.0	<0.015	<0.005	<0.005	<0.005	
North Perimeter	6-8	North Perimeter	7/28/2006	Caliche/Rock	in-situ	<10.0	<10.0	<10.0	0.010	<0.005	0.010	<0.005	
Stiffened Pit Contents	4	Stiffened Pit Contents	7/28/2006	Sand	in-situ	<10.0	583	583	0.007	<0.005	0.007	<0.005	
North Pit	0-1	North Pit	7/28/2006	Clayey Sand	in-situ	<10.0	<10.0	<10.0	<0.015	<0.005	<0.005	<0.005	
New Mexico Oil Conservation Division Remedial Goals													
											1,000	50	70

¹VOC-Volatile Organic Contaminants/Constituents

³GRO-Gasoline Range Organics C₆-C₁₀

⁴DRO-Diesel Range Organics C₁₀-C₂₈

⁵TPH-Total Petroleum Hydrocarbon = GRO+DRO.

⁶Bolded values are in excess of the New Mexico Oil Conservation Division guideline threshold for the parameter

⁷Italicized values are < the instrument detection limit.

⁸na - Not Analyzed (-) indicates the sample was not collected due to refusal.

Reported detection limits are considered "de minimus" values and are included in the GRO/DRO and BTEX summations.

WQCC - (New Mexico Water Quality Control Commission) Chloride residuals cannot be capable of impacting local groundwater in excess of the 250 mg/L WQCC standard.



PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

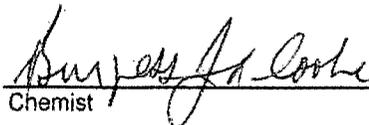
ANALYTICAL RESULTS FOR
 ENVIRONMENTAL PLUS, INC.
 ATTN: PAT McCASLAND
 P.O. BOX 1558
 EUNICE, NM 88231
 FAX TO: (505) 394-2601

Receiving Date: 07/28/06
 Reporting Date: 08/01/06
 Project Owner: CHEVRON TEXACO (#200078)
 Project Name: CATCLAW DRAW #21 PIT
 Project Location: NOT GIVEN

Sampling Date: 07/28/06
 Sample Type: SOIL
 Sample Condition: COOL & INTACT
 Sample Received By: BC
 Analyzed By: BC

LAB NO.	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
	ANALYSIS DATE	07/31/06	07/31/06	07/31/06	07/31/06
H11395-1	EAST PERIMETER	<0.005	<0.005	<0.005	<0.015
H11395-2	WEST PERIMETER	<0.005	<0.005	<0.005	<0.015
H11395-3	SOUTH PERIMETER	<0.005	0.005	<0.005	<0.015
H11395-4	NORTH PERIMETER	<0.005	0.010	<0.005	<0.015
H11395-5	STIFFENED PIT CONTENTS	<0.005	0.007	<0.005	<0.015
H11395-6	NORTH PIT	<0.005	<0.005	<0.005	<0.015
	Quality Control	0.100	0.105	0.106	0.299
	True Value QC	0.100	0.100	0.100	0.300
	% Recovery	99.6	105	106	99.7
	Relative Percent Difference	<0.1	6.7	7.8	2.0

METHOD: EPA SW-846 8260


 Chemist

8/1/06
 Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

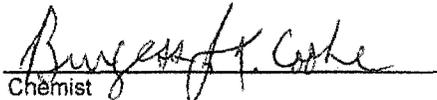
ANALYTICAL RESULTS FOR
 ENVIRONMENTAL PLUS, INC.
 ATTN: PAT McCASLAND
 P.O. BOX 1558
 EUNICE, NM 88231
 FAX TO: (505) 394-2601

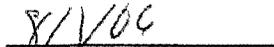
Receiving Date: 07/28/06
 Reporting Date: 08/01/06
 Project Owner: CHEVRON TEXACO (#200078)
 Project Name: CATCLAW DRAW #21 PIT
 Project Location: NOT GIVEN

Sampling Date: 07/28/06
 Sample Type: SOIL
 Sample Condition: COOL & INTACT
 Sample Received By: BC
 Analyzed By: BC/AB

LAB NUMBER	SAMPLE ID	GRO	DRO	CI*
		(C ₆ -C ₁₀) (mg/Kg)	(>C ₁₀ -C ₂₈) (mg/Kg)	(mg/Kg)
ANALYSIS DATE		07/31/06	07/31/06	07/31/06
H11395-1	EAST PERIMETER	<10.0	<10.0	160
H11395-2	WEST PERIMETER	<10.0	<10.0	64
H11395-3	SOUTH PERIMETER	<10.0	<10.0	864
H11395-4	NORTH PERIMETER	<10.0	<10.0	62
H11395-5	STIFFENED PIT CONTENTS	<10.0	583	42000
H11395-6	NORTH PIT	<10.0	<10.0	1280
Quality Control		780	770	990
True Value QC		800	800	1000
% Recovery		97.5	96.2	99.0
Relative Percent Difference		0.9	7.2	1.0

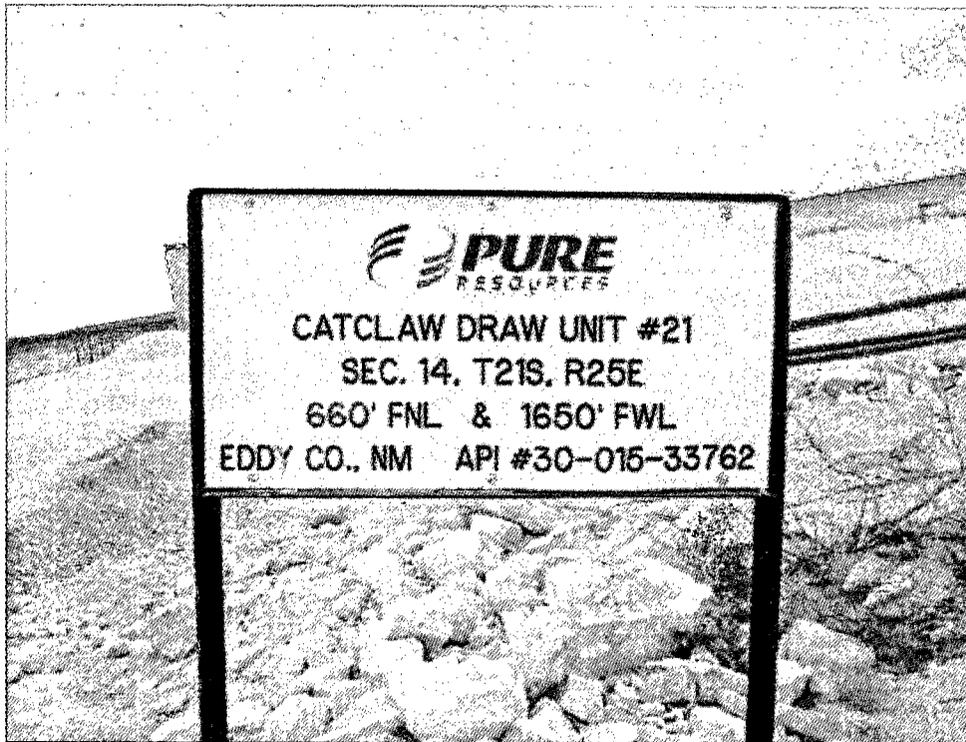
METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI*: Std. Methods 4500-CI'B
 *Analyses performed on 1:4 w:v aqueous extracts.


 Chemist

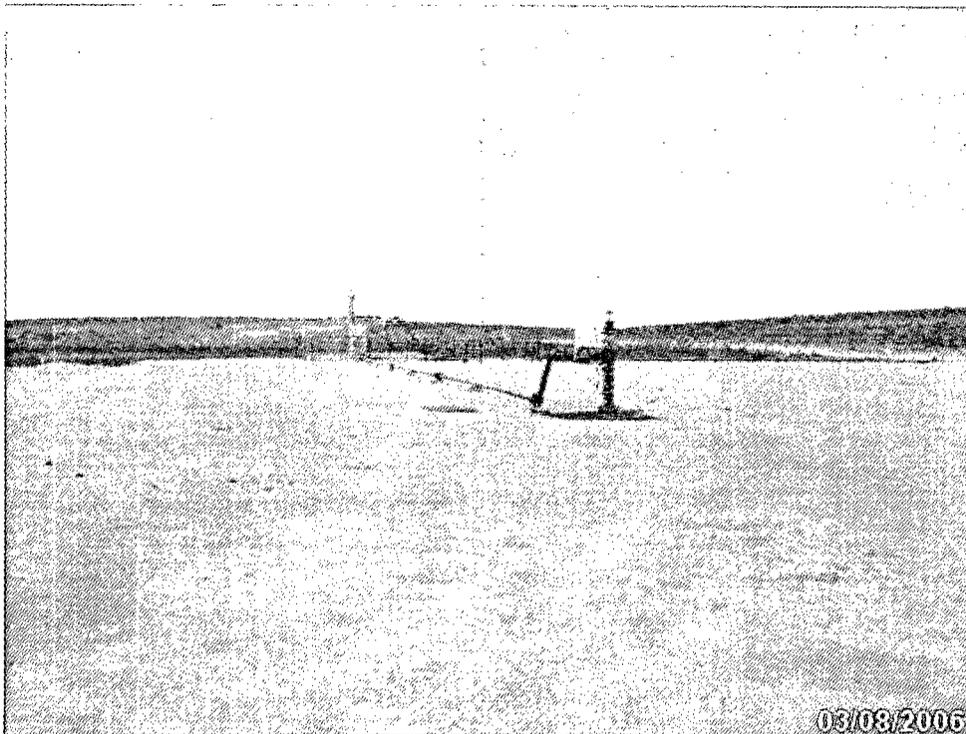

 Date

H11395A

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



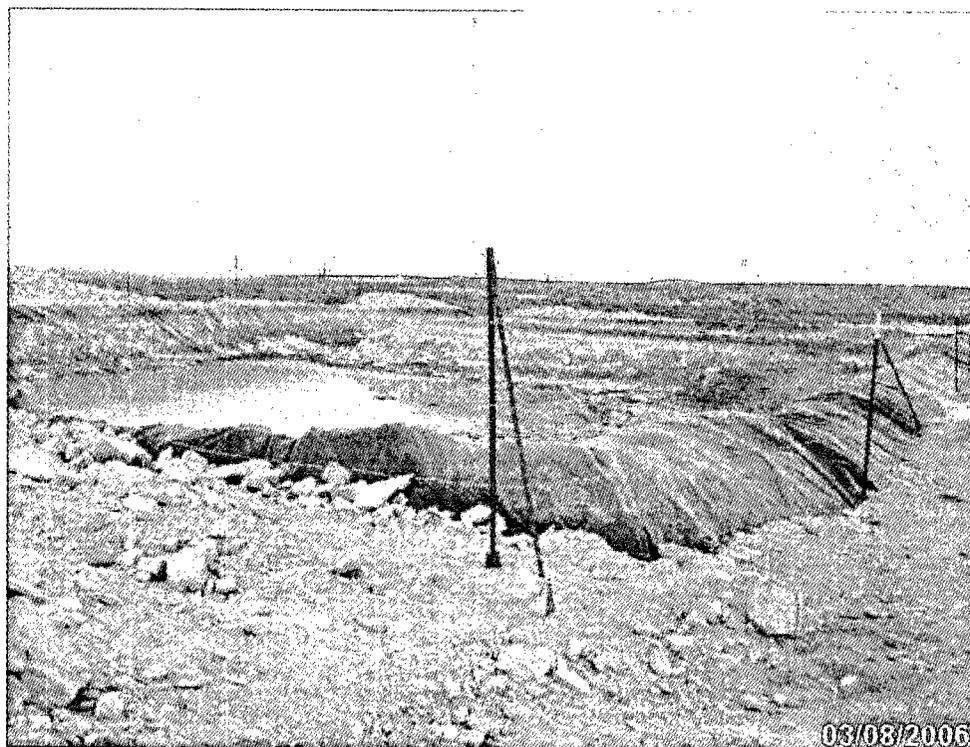
Photograph #1- Lease sign.



Photograph #2 - Pit and berm looking southeast.



Photograph #3 - Pit and berm looking southeast.



Photograph #4 - Pit and berm looking southeast.

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
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-144
June 1, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes No

Type of action: Registration of a pit or below-grade tank Closure of a pit or below-grade tank

Operator: Chevron USA O-Grid #4323 (Pure Resources O-Grid #150628) Telephone: 505.394.1237 e-mail address: LDuk@chevron.com		
Address: PO Box 1949 2401 Avenue O Eunice, New Mexico 88231		
Facility or well name: Catclaw Draw Unit #21 API #: 30-025-33762 Unit Letter (UL): C Qtr/Qtr: NE¼ NW¼ Section: 14, T21S, R25E		
County: Eddy Latitude: N 32°29'05.59" Longitude: W 104°22'08.83" NAD: 1927 <input type="checkbox"/> 1983 <input type="checkbox"/> WGS 84 <input checked="" type="checkbox"/>		
Surface Owner: Federal <input type="checkbox"/> State <input checked="" type="checkbox"/> Private <input type="checkbox"/> Indian <input type="checkbox"/>		
Pit	Below-grade tank	
Type: Drilling <input checked="" type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/>	Volume: bbl Type of fluid:	
Lined <input checked="" type="checkbox"/> Unlined <input type="checkbox"/>	Construction material:	
Liner type: Synthetic <input checked="" type="checkbox"/> Thickness 12 mil Clay <input type="checkbox"/>	Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not.	
Pit Volume: ~3,000 bbl		
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.) ~56'bgs	Less than 50 feet	(20 points) <input type="checkbox"/>
	50 feet or more, but less than 100 feet	(10 points) <input checked="" type="checkbox"/>
	100 feet or more	(0 points) <input type="checkbox"/>
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes	(20 points) <input type="checkbox"/>
	No	(0 points) <input checked="" type="checkbox"/>
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet	(20 points) <input type="checkbox"/>
	200 feet or more, but less than 1,000 feet	(10 points) <input type="checkbox"/>
	1,000 feet or more	(0 points) <input checked="" type="checkbox"/>
Ranking Score (Total Points)		10

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite offsite If offsite, name of facility Lea Land. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No Yes 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.

Additional Comments: It is proposed to close this pit consistent with the "ChevronTexaco Drilling and Reserve Pit Closure General Plan, December 2004" and the NMOCD Pit and Below-Grade Tank Guidelines, November 1, 2004 as promulgated under NMOCD Rule 50 (19.15.2.50 NMAC).

Pit Status: Liner intact Liner punctured or torn

Method of Closure: The contents of the pit will be stiffened and encapsulated on site. Approximately 50% of the pit volume, i.e., 600 cubic yards, will be disposed of. Encapsulation will consist of mixing earthen materials with the pit contents, as necessary to stiffen the pit contents sufficiently to provide physical stability and support the pit cover. Upon the pit contents being stiffened as required, the edges of the liner will be folded over the edges of the stiffened mud and cuttings and the pit will be covered with a 20-mil thick impervious, reinforced synthetic or fabricated liner meeting ASTM standards that is designed to be resistant to the material encapsulated. The liner will then be covered with a minimum of three feet of clean soil or like material that is capable of supporting native plant growth.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank will be closed according to NMOCD guidelines , a general permit , or an (attached) alternative OCD-approved plan .

Date: _____ Printed Name/Title Jim Duke, Construction Representative Signature _____

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:
Printed Name/Title _____ Signature _____ Date: _____