HIP - 105

GENERAL CORRESPONDENCE

YEAR(S): 2006

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Wednesday, September 27, 2006 10:04 AM
To: 'Scott, Ken'
Subject: RE: Buckeye Lateral Pipeline Test

Mr. Scott:

I regret to inform you that the $250 OCD fee(s) is non-refundable. Please contact me if you need further assistance. Thank you.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3491
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: http://www.emnrd.state.nm.us/ocd/
(Pollution Prevention Guidance is under "Publications")

From: Scott, Ken [mailto:kscott@craworld.com]
Sent: Wednesday, September 27, 2006 9:32 AM
To: Chavez, Carl J, EMNRD
Subject: Buckeye Lateral Pipeline Test

Mr. Chavez. Our client, Chevron Pipe Line Company has postponed their plans for testing this pipeline due to other commitments. Please return the $ 250.00 application check to our office. I appreciate your assistance in this matter. Please Mail check to;
CONESTOGA-ROVERS AND ASSOC.

6320 ROTHWAY, SUITE 100
HOUSTON, TX 77040
ATTN; KEN SCOTT

CONESTOGA-ROVERS
& ASSOCIATES

6320 Rothway St., Suite 100
Houston, Texas 77040
Telephone: (713) 734-3090 Fax: (713) 734-3391
http://www.craworld.com

Date August 17, 2006

Reference No.: 046834

Mr. Carl Chavez, CHMM
New Mexico Energy, Mineral & Natural Resources Department
Oil Conservation Division, Environmental Bureau
1220 South Street. Francis Drive
Santa Fe, New Mexico 87505

Re: Request for Hydro Test Water Discharge Permit
Texaco Buckeye Lateral
Saunders Pipeline, Lea County, New Mexico

Dear Mr. Chavez;

2006 AUG 17

Enclosed with this letter is the permit application requesting to discharge hydro test water, and payment to the New Mexico OCD in the amount of $250.00 for processing the application. The subject water being discharged will be used to hydrostatically test a dedicated four (4) inch LPG pipeline with approximately 350 barrels of test water acquired from the City of Hobbs water district. The water will be discharged onto the right-of-way (ROW) at the Saunders line tie-in point in Lea County, New Mexico. This application requests authorization to discharge approximately 300-400 hundred barrels of test water onto the pipeline ROW in accordance with specified limits and conditions.

If you require further information or clarification regarding the permit application, please contact me Ken Scott at 713-734-3090 or via e-mail at kscott@craworld.com.

Sincerely,

Ken Scott
Project Manager

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

Revised June 10, 2003

Submit Original
Plus 1 Copy
to Santa Fe
1 Copy to Appropriate
District Office

DISCHARGE PLAN APPLICATION FOR SERVICE COMPANIES,GAS PLANTS, REFINERIES, COMPRESSOR, GEOTHERMAL FACILITES AND CRUDE OIL PUMP STATIONS

(Refer to the OCD Guidelines for assistance in completing the application)

☒ New ☐ Renewal ☐ Modification

1. Type: PIPELINE HYDROSTATIC DISCHARGE PERMIT

2. Operator: _CHEVRON PIPE LINE COMPANY

Address: _1426 "CR" 135-2 MILES SOUTH OF I 20-DUNCAN HASTINGS RD. ROSCOE, TX. 79545

Discharge location

Contact Person: MR. JERRY WILLIAMS Phone: (325) 766-365

Location: N 32 47.885 /4 W 103 27.385 /4 Section 33 Township 17S Range 35E

Submit large scale topographic map showing exact location.

4. Attach the name, telephone number and address of the landowner of the facility site.
   Chevron Pipe Line Co. – (713) 432-3427 - 4800 Fournace Pl., Bellaire, TX 7701- Attn: S. Patel
5. Attach the description of the facility with a diagram indicating location of fences, pits, dikes and tanks on the facility.
   None. Single pipeline 3.3 miles in length connecting to the Saunders pipeline.
6. Attach a description of all materials stored or used at the facility.
   None.
7. Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste water must be included.
   None. ~350 bbls. waste water
8. Attach a description of current liquid and solid waste collection/treatment/disposal procedures.
   None.
9. Attach a description of proposed modifications to existing collection/treatment/disposal systems.
   None Construct lined pit for wash water storage & evaporation or injection.
10. Attach a routine inspection and maintenance plan to ensure permit compliance.
    Inspected according to permit specifications.
11. Attach a contingency plan for reporting and clean-up of spills or releases.
    Operated according to permit conditions.
12. Attach geological/hydrological information for the facility. Depth to and quality of ground water must be included.
    See attachment in enclosed application.
13. Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.
    None.Operating pipeline.
14. CERTIFICATIONI hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: Kenneth A. Scott Title: Project Manager

Signature: [signature] Date: August 18, 2006

E-mail Address: kscott@craworld.com

CONESTOGA-ROVERS
& ASSOCIATES

6320 Rothway St., Suite 100
Houston, Texas 77040
Telephone: (713) 734-3090 Fax: (713) 734-3391
http://www.craworld.com

OIL CONSERVATION DIVISION PERMIT APPLICATION

HYDROSTATIC TEST WATER DISCHARGE FROM TEXACO BUCKEYE LATERAL TO SAUNDERS PIPELINE ROW, LEA COUNTY, NEW MEXICO

Prepared for:

Chevron Pipeline Company

Health Environment and Safety

4800 Fournace Place – Room E322C

Bellaire, Texas 77401-2324

Project # 046834

August 17, 2006

CONESTOGA-ROVERS
& ASSOCIATES

1.0 INTRODUCTION

Chevron Pipeline Company is requesting authorization from the New Mexico Oil Conservation Division (OCD) to discharge hydrostatic test water acquired from the City of Hobbs water district onto the Right-of Way (R.O.W.) of the Saunders pipeline, in Lea County, New Mexico with the coordinates of N32 47.885 & W 103 27.385. The test water is proposed to be discharged onto the soils of the R.O.W., and then allowed to evaporate to the air and infiltrate shallow soils. The test water will not be discharged to the surface waters of New Mexico. This document provides relevant information identified in the New Mexico OCD, Hydrostatic Test (HST) Discharge Plan Procedure, Revised July, 2006.

The Texaco Buckeye Lateral pipeline was laid in 1965 and has been in active NGL service since that date. The 4 inch pipeline is approximately 3.3 miles in length and is regulated under DOT with the pertinent operating permits. This line is controlled at each end by a single 4-inch block valve used to isolate the line during hydrostatic testing. The discharge location will be on the ROW which is at the Tie-in point to the 6 inch Saunders pipeline. The surrounding area is dedicated oil field tank batteries, pipelines and gathering facilities.

A site location map of the Buckeye Lateral pipeline is attached for your review.

FIGURE 1 – SITE LOCATION MAP

2.0 PIPELINE OWNERS AND CONTACTS

Chevron Pipeline Company owns the subject LPG pipeline. Contact information for Chevron Pipeline Company and Conestoga-Rovers and Associates individuals involved with this project and the development of this application are as follows:

Chevron Pipeline Company Contacts:

Sarah Patel HES East Team Leader Health Environment and Safety 4800 Fournace Place-room E322C Bellaire TX 77401-2324 713-432-3427	Jerry Williams Area Foreman 1426 "CR" 135-2 miles South of I20. Duncan Hastings Rd Roscoe, TX 79545 325-766-3656

CONESTOGA-ROVERS
& ASSOCIATES

Conestoga-Rovers and Associates Contacts:

Robert A. Larsen 6320 Rothway – Suite 100 Houston, TX. 77040 713-734-3090	Thomas C. Larson, P.G. 2135 S. Loop 250 West Midland TX. 79703 432-686-0086
Kenneth A. Scott 6320 Rothway – Suite 100 Houston, TX. 77040 713-734-3090	

3.0 DESCRIPTION OF PROPOSED HYDROSTATIC TEST

The subject pipeline will be filled with approximately 350 barrels (14,700 gallons) of water obtained from the City of Hobbs water district. The pipeline will be under test pressure for a period of 48 hours while the test is being conducted.

Upon the completion of the hydro-test, the water from the pipeline will be discharged into a frac tank for holding and sampled before releasing the water to the ground. Samples will be collected from three levels in the frac tank. The first at one (1) foot below the surface, the second at mid-depth of the liquid, and the last sample will be collected from one (1) foot above the bottom layer. The sample containers will be placed on ice in a cooler and prepared for shipping to Lancaster Laboratory, under proper chain-of-custody procedures.

4.0 SOURCE AND ANALYSIS OF TEST WATER

Water for the pipeline hydro-test will be supplied from the City of Hobbs water district. Approximately 350 barrels (14,700 gallons) will be utilized to perform the test.

According to the Oil Conservation Division, the source water utilized to conduct the hydro-test will not require laboratory analysis since the water is "potable" and being supplied by the City of Hobbs regional water district.

5.0 PRE-DISCHARGE TEST WATER ANALYSIS

As previously described, three grab samples of the hydro-test water will be collected. The water will be analyzed and the results compared to the New Mexico OCD discharge limits outlined in Appendix A. If any of the analytical results are found to exceed the discharge limits, the water will be treated to meet the permit limits prior to discharge. In addition, attached in Appendix B is the proposed testing criteria.

APPENDIX A - OCD DISCHARGE PEMIT LIMITS
APPENDIX B - TESTING CRITERIA

6.0 PROPOSED POINT OF DISCHARGE

The proposed point of discharge is within the pipeline ROW in Lea County with the following coordinates. (32 47.885'N, 103 27.385'W) A site aerial is attached depicting the location of the "Release Point" for the test water.

FIGURE TWO – SITE AERIAL - RELEASE AREA

7.0 TEST WATER TREATMENT METHOD

7.1 Treatment Equipment and Procedure

If the test water in the pipeline meets the permit limits, the water will be discharged without treatment. If the test water does not meet the permit limits, the water will be treated to meet the permit limits and discharged. The treatment method to be used will depend on the quality of the water. It is anticipated that if treatment is needed, the water would be pretreated for any oil sheen and then filtered to the degree necessary to achieve the permit limits. If treatment is required the water will be held in a frac tank prior to discharge while analysis confirms treatment is successful in meeting discharge parameters.

7.1 Waste Disposal

Any waste generated will be disposed off-site in accordance with state and local requirements, and Chevron Pipeline Company protocol.

8.0 DISCHARGE MONITORING

If the quality of the water in the pipeline requires treatment before discharging, the discharge water will be tested twice or according to the issued permit. Samples will be collected by the frac tank volume divided by the required number of samples. As an example, if two samples are required, samples will be collected at the beginning of the discharge and when the frac tank is half emptied.

9.0 GEOLOGICAL/HYDROLOGICAL INFORMATION

APPENDIX C - GEOLOGICAL/HYDROLOGICAL INFORMATION

CONESTOGA-ROVERS
& ASSOCIATES

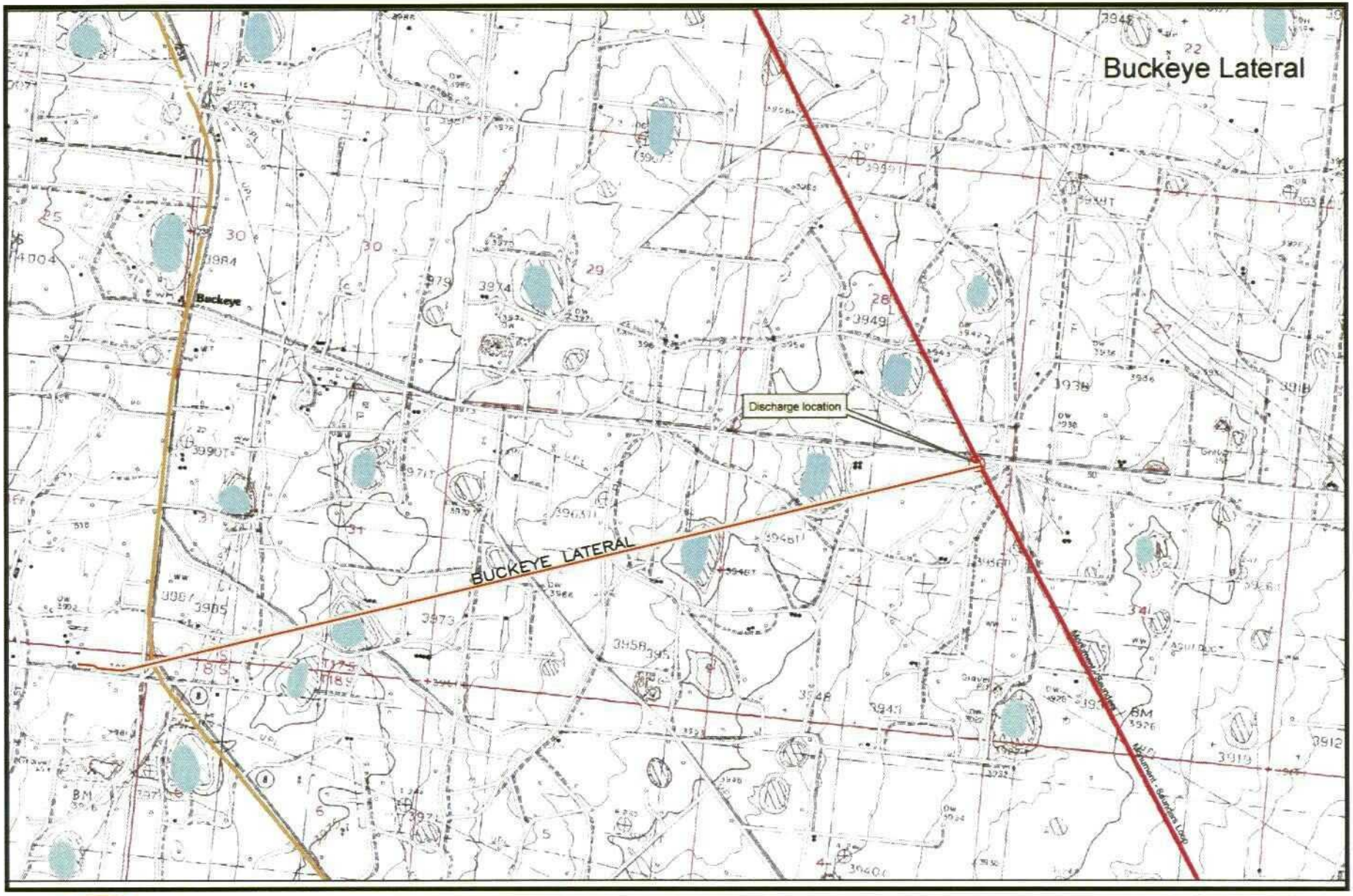
10.0 LANDOWNER AND ADJACENT LANDOWNERS

Chevron Pipeline Company operates the pipeline within a ROW on the land to which the hydro-test water will be discharged. A letter from the adjacent landowner on the pipeline ROW is attached which authorizes Chevron Pipeline Company to discharge the test water onto the right-of-way. See the attached signed letter from the adjacent land owner authorizing Chevron to discharge test water onto the ROW.

APPENDIX D - LANDOWNER AUTHORIZATION

Figure 1

Site Location Map



046834 SLR 081606

SITE LOCATION MAP	JOB No. 046834
CHEVRON PIPE LINE COMPANY BUCKEYE LATERAL HYDROTEST SECTIONS 31, 32, & 33 TOWNSHIP 17 SOUTH RANGE 35 EAST	FIGURE 1

Figure 2

Site Aerial Release Point

046834 SLR 081606

SITE AERIAL

CHEVRON PIPE LINE COMPANY
BUCKEYE LATERAL HYDROTEST
SECTIONS 31, 32, & 33 TOWNSHIP 17 SOUTH RANGE 35 EAST

JOB No. 046834

FIGURE 2

APPENDIX A

OCD Discharge Permit Limits

Parameters	Discharge Limits (mg/L)
Arsenic	0.1
Barium	1.0
Cadmium	0.01
Chromium	0.05
Lead	0.05
Total Mercury	0.002
Selenium	0.05
Silver	0.05
Benzene	0.01
Toluene	0.75
Ethylbenzene	0.75
Total Xylene	0.62

APPENDIX B

Type of Analysis	Analyte	Method No.
Wet Chemistry	Bi-Carbonate (HCO3)	310.1
	Carbonate (CO3)	310.1
	Chloride (Cl)	300.0
	Floride (F)	300.0
	Sulfate (SO4)	300.0
	Bromide (B)	300.0
	Total Dissolved Solids (TDS)	160.1
	pH	150.1
	Specific Conductance	120.1
Metals	Iron (Fe)	6010B
	Calcium (Ca)	6010B
	Manganese (Mn)	6010B
	Magnesium (Mg)	6010B
	Sodium (Na)	6010B
	Potassium (K)	6010B
	Arsenic (As)	6010B
	Barium (Ba)	6010B
	Cadmium (Cd)	6010B
	Chromium (Cr)	6010B
	Lead (Pb)	6010B
	Selenium (Se)	6010B
	Silver (Ag)	6010B
	Mercury(Hg)	7470A
Volatiles	Full List of volatiles	8260B
NORM	Radium 226	EPA –E903.0
	Radium 228	EPA- E904.0

BUCKEYE LATERAL
SECTIONS 31, 32, 33 in T-17-S; R-35-E

GEOLOGICAL/HYDROLOGICAL INFORMATION

According to water well information presented in the New Mexico Office of the State Engineer W.A.T.E.R.S. database, the depth to groundwater from a well in section 31 was recorded at 115 feet in 1990 (most recent measurement). Several other wells in the area have depth to water measurements ranging from 50 to 95 feet from gauging events dating between 1961 and 1974. The New Mexico Environment Department office in Clovis, New Mexico reported that groundwater levels in this area have been steadily decreasing over the past few decades as a result of significant removals from the regional aquifer.

The primary aquifer in this project area is referred to as the Southern High Plains or Ogallala aquifer. Regional groundwater flow direction is toward the southeast. The aquifer provides good quality drinking water with total dissolved solid (TDS) concentrations typically in the range of 1000 milligrams per liter. Recharge occurs primarily via infiltration from precipitation events.

The *Geologic Map of New Mexico (2003)* prepared by the New Mexico Bureau of Geology and Mineral Resources maps the discharge area as the Ogallala Formation. The Ogallala Formation (lower Pliocene to middle Miocene in age) is described as "alluvial and eolian deposits, and petrocalcic soils of the Southern High Plains".

The United States Department of Agriculture – Natural Resources Conservation Service (NRCS) website was accessed to obtain soil information in the project area. The primary soil unit mapped in the project area is the Kimbrough – Lea complex (KU). The unit is described to have a gravelly loam texture in the top six inches with a "cemented material" texture from six to sixteen inches. The thin soil layers are typically underlain by an indurated (hardened) calcium carbonate interval locally referred to as "caliche" - of variable thickness. Several playa lakes were also noted proximate to the project area.

3477

TO WHOM IT MAY CONCERN:

I GILES LEE DO GIVE MY PERMISSION FOR WATER DISCHARGE ONTO THE PROPERTY OF WHICH A 4" LPG PIPELINE CROSSES, SAID PIPE LINE IS OWNED & OPERATED BY CHEVRON PIPELINE COMPANY. THE WATER TO BE DISCHARGED SHALL MEET OR EXCEED ALL AND ANY REGULATORY AGENCY REQUIREMENTS, IN WRITING OF WHICH A COPY OF TEST RESULTS SHALL BE FURNISHED TO THE REQUIRED AGENCIES AND MYSELF BEFORE DISCHARGE WILL BE ALLOWED.

~~CORRECT~~

COMPOSED BY:
JERRY WILLIAMS
PROJECT COORD.
CHEVRON PIPELINE CO.
8-9-06
Jerry Williams

APPROVED BY:
Giles Lee

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Friday, September 01, 2006 11:33 AM
To: 'Scott, Ken'
Subject: RE: Telephone Meeting

The OCD would compare your analytical data results against the WQCC groundwater quality standards at http://www.nmenv.state.nm.us/NMED_Regs/gwb/20_6_2_NMAC.pdf and below.

20.6.2.3103 STANDARDS FOR GROUND WATER OF 10,000 mg/l TDS CONCENTRATION OR LESS: The following standards are the allowable pH range and the maximum allowable concentration in ground water for the contaminants specified unless the existing condition exceeds the standard or unless otherwise provided in Subsection D of Section 20.6.2.3109 NMAC. Regardless of whether there is one contaminant or more than one contaminant present in ground water, when an existing pH or concentration of any water contaminant exceeds the standard specified in Subsection A, B, or C of this section, the existing pH or concentration shall be the allowable limit, provided that the discharge at such concentrations will not result in concentrations at any place of withdrawal for present or reasonably foreseeable future use in excess of the standards of this section. These standards shall apply to the dissolved portion of the contaminants specified with a definition of dissolved being that given in the publication "*methods for chemical analysis of water and waste of the U.S. environmental protection agency*," with the exception that standards for mercury, organic compounds and non-aqueous phase liquids shall apply to the total unfiltered concentrations of the contaminants.

A. Human Health Standards-Ground water shall meet the standards of Subsection A and B of this section unless otherwise provided. If more than one water contaminant affecting human health is present, the toxic pollutant criteria as set forth in the definition of toxic pollutant in Section 20.6.2.1101 NMAC for the combination of contaminants, or the Human Health Standard of Subsection A of Section 20.6.2.3103 NMAC for each contaminant shall apply, whichever is more stringent. Non-aqueous phase liquid shall not be present floating atop of or immersed within ground water, as can be reasonably measured.

(1) Arsenic (As).....0.1 mg/l

(2) Barium (Ba).....1.0 mg/l

(3) Cadmium (Cd).....0.01 mg/l

(4) Chromium (Cr).....0.05 mg/l

(5) Cyanide (CN).....0.2 mg/l

(6) Fluoride (F).....1.6 mg/l

(7) Lead (Pb).....0.05 mg/l

(8) Total Mercury (Hg).....0.002 mg/l

(9) Nitrate ($NO_{3\ as\ N}$).....10.0 mg/l

(10) Selenium (Se).....0.05 mg/l

(11) Silver (Ag).....0.05 mg/l

(12) Uranium (U).....0.03 mg/l

(13) Radioactivity: Combined Radium-226 & Radium-228.....30 pCi/l

(14) Benzene.....0.01 mg/l

(15) Polychlorinated biphenyls (PCB's).....0.001 mg/l

(16) Toluene.....0.75 mg/l

(17) Carbon Tetrachloride.....0.01 mg/l

(18) 1,2-dichloroethane (EDC).....0.01 mg/l

(19) 1,1-dichloroethylene (1,1-DCE).....0.005 mg/l

(20) 1,1,2,2-tetrachloroethylene (PCE).....0.02 mg/l

(21) 1,1,2-trichloroethylene (TCE).....0.1 mg/l

(22) ethylbenzene.....0.75 mg/l

(23) total xylenes.....0.62 mg/l

(24) methylene chloride.....0.1 mg/l

(25) chloroform.....0.1 mg/l

(26) 1,1-dichloroethane.....0.025 mg/l

(27) ethylene dibromide (EDB).....0.0001 mg/l

(28) 1,1,1-trichloroethane.....0.06 mg/l

(29) 1,1,2-trichloroethane.....0.01 mg/l

(30) 1,1,2,2-tetrachloroethane.....0.01 mg/l

(31) vinyl chloride.....0.001 mg/l

20.6.2 NMAC 12

(32) PAHs: total naphthalene plus monomethylnaphthalenes.....0.03 mg/l

(33) benzo-a-pyrene.....0.0007 mg/l

B. Other Standards for Domestic Water Supply

(1) Chloride (Cl).....250.0 mg/l

(2) Copper (Cu).....1.0 mg/l

(3) Iron (Fe).....1.0 mg/l

(4) Manganese (Mn).....0.2 mg/l

(6) Phenols.....0.005 mg/l

(7) Sulfate (SO_4).....600.0 mg/l

(8) Total Dissolved Solids (TDS).....1000.0 mg/l

(9) Zinc (Zn).....10.0 mg/l

(10) pH.....between 6 and 9

C. Standards for Irrigation Use - Ground water shall meet the standards of Subsection A, B, and C of this section unless otherwise provided.

(1) Aluminum (Al).....5.0 mg/l

(2) Boron (B).....0.75 mg/l

(3) Cobalt (Co).....0.05 mg/l

(4) Molybdenum (Mo).....1.0 mg/l

(5) Nickel (Ni).....0.2 mg/l

[2-18-77, 1-29-82, 11-17-83, 3-3-86, 12-1-95; 20.6.2.3103 NMAC - Rn, 20 NMAC 6.2.III.3103, 1-15-01; A, 9-26-04]

[Note: For purposes of application of the amended numeric uranium standard to past and current water discharges (as of 9-26-04), the new standard will not become effective until June 1, 2007. For any new water discharges, the uranium standard is effective 9-26-04.]

Thanks.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3491
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: http://www.emnrd.state.nm.us/ocd/
(Pollution Prevention Guidance is under "Publications")

From: Scott, Ken [mailto:kscott@craworld.com]
Sent: Friday, September 01, 2006 9:59 AM
To: Chavez, Carl J, EMNRD
Subject: RE: Telephone Meeting

Sounds good. Mr. Chavez. Can you send me a copy of the OCD Discharge Permit Limits/ Parameters list?

From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Friday, September 01, 2006 9:52 AM
To: Scott, Ken
Subject: RE: Telephone Meeting

Ken:

I have from 1-2 pm available today. I leave at 2. Thnx.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3491
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: http://www.emnrd.state.nm.us/ocd/
(Pollution Prevention Guidance is under "Publications")

From: Scott, Ken [mailto:kscott@craworld.com]
Sent: Friday, September 01, 2006 8:53 AM
To: Chavez, Carl J, EMNRD
Subject: Telephone Meeting

Mr. Chavez. Give me a time after lunch today we can discuss the application. I will call you. Thank you

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. _____ dated 8/15/06

on each received on _____ in the amount of $ 250.00

from Conestoga-Rovers & Associates Inc

for HI-105

Submitted by: Lawrence Romero Date: 8/28/06

Submitted to ASD by: Lawrence Romero Date: 8/28/06

Received in ASD by: _____ Date: _____

Filing Fee ✓ New Facility _____ Renewal _____

Modification _____ Other _____

Organization Code 521.07 Applicable FY 2004

To be deposited in the Water Quality Management Fund.

Full Payment ✓ or Annual Increment _____

6320 Rothway St. Suite 100
Houston, Texas 77040
Telephone: (713) 734-3090 Fax: (713) 734-3391
http://www.craworld.com

CONESTOGA-ROVERS
& ASSOCIATES

Date August 17, 2006

Reference No.: 046834

Mr. Carl Chavez, CHMM
New Mexico Energy, Mineral & Natural Resources Department
Oil Conservation Division, Environmental Bureau
1220 South Street. Francis Drive
Santa Fe, New Mexico 87505

Re: Request for Hydro Test Water Discharge Permit
Texaco Buckeye Lateral
Saunders Pipeline, Lea County, New Mexico HI-105

Dear Mr. Chavez;

Enclosed with this letter is the permit application requesting to discharge hydro test water, and payment to the New Mexico OCD in the amount of $250.00 for processing the application. The subject water being discharged will be used to hydrostatically test a dedicated four (4) inch LPG pipeline with approximately 350 barrels of test water acquired from the City of Hobbs water district. The water will be discharged onto the right-of-way (ROW) at the Saunders line tie-in point in Lea County, New Mexico. This application requests authorization to discharge approximately 300-400 hundred barrels of test water onto the pipeline ROW in accordance with specified limits and conditions.

If you require further information or clarification regarding the permit application, please contact me Ken Scott at 713-734-3090 or via e-mail at kscott@craworld.com.

Sincerely,

Ken Scott
Project Manager

	Description	FUND	CES	DFA ORG	DFA ACCT	ED ORG	ED ACCT	AMOUNT	
									1
1	CY Reimbursement Project _____ Tax ___	064	01		2329	900000	2329134		2
5	Gross Receipt Tax	064	01		1696	900000	4169134		3
3	Air Quality Title V	092	13	1300	9696	900000	4969014		4
4	PRP Prepayments	248	14	1400	9696	900000	4969015		5
2	Climax Chemical Co.	248	14	1400	9696	900000	4969248		6
6	Circle K Reimbursements	248	14	1400	9696	900000	4969027		7
7	Hazardous Waste Permits	339	27	2700	1696	900000	4169339		8
8	Hazardous Waste Annual Generator Fees	339	27	2700	1696	900000	4169029	250 00	10
10	Water Quality - Oil Conservation Division	341	29		2329	900000	2329029		11
11	Water Quality - GW Discharge Permit	341	29	2800	1696	900000	4169029		12
12	Air Quality Permits	631	31	2500	1696	900000	4169031		13
13	Payments under Protest	651	33		2919	900000	2919033		*14
14	Xerox Copies	652	34		2349	900000	2349001		15
15	Ground Water Penalties	652	34		2349	900000	2349002		16
16	Witness Fees	652	34		2349	900000	2439003		17
17	Air Quality Penalties	652	34		2349	900000	2349004		18
18	OSHA Penalties	652	34		2349	900000	2349005		19
19	Prior Year Reimbursement	652	34		2349	900000	2349006		20
20	Surface Water Quality Certification	652	34		2349	900000	2349009		21
21	Jury Duty	652	34		2349	900000	2349012		22
22	CY Reimbursements (i.e. telephone)	652	34		2349	900000	2349014		*23
23	UST Owner's List	783	24	2500	9696	900000	4969201		*24
24	Hazardous Waste Notifiers List	783	24	2500	9696	900000	4969202		*25
25	UST Maps	783	24	2500	9696	900000	4969203		*26
26	UST Owner's Update	783	24	2500	9696	900000	4969205		*28
28	Hazardous Waste Regulations	783	24	2500	9696	900000	4969207		*29
29	Radiologic Tech. Regulations	783	24	2500	9696	900000	4969208		*30
30	Superfund CERLIS List	783	24	2500	9696	900000	4969211		31
31	Solid Waste Permit Fees	783	24	2500	9696	900000	4969213		32
32	Smoking School	783	24	2500	9696	900000	4969214		*33
33	SWQB - NPS Publications	783	24	2500	9696	900000	4969222		*34
34	Radiation Licensing Regulation	783	24	2500	9696	900000	4969228		*35
35	Sale of Equipment	783	24	2500	9696	900000	4969301		*36
36	Sale of Automobile	783	24	2500	9696	900000	4969302		**37
37	Lust Recoveries	783	24	2500	9696	900000	4969814		**38
38	Lust Repayments	783	24	2500	9696	900000	4969815		39
39	Surface Water Publication	783	24	2500	9696	900000	4969801		40
40	Exxon Reese Drive Ruidoso - CAF	783	24	2500	9696	900000	4969242		41
41	Emerg. Hazardous Waste Penalties NOV	957	32	9600	1696	900000	4164032		42
42	Radiologic Tech. Certification	987	05	0500	1696	900000	4169005		44
44	Ust Permit Fees	989	20	3100	1696	900000	4169020		45
45	UST Tank Installers Fees	989	20	3100	1696	900000	4169021		46
46	Food Permit Fees	991	26	2600	1696	900000	4169026		43
43	Other								

TOTAL 250 00

Gross Receipt Tax Required

** Site Name & Project Code Required

ontact Person: Wayne Price Phone: 476-3490 Date: 8/28/06

eceived in ASD By: _____ Date: _____ RT #: _____ ST #: _____

FSB025
Revised 07/07/00

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Friday, August 25, 2006 4:45 PM
To: 'Scott, Ken'
Subject: Request for Hydro Test Water Discharge Permit dated August 17, 2006

Ken:

Good morning. I am in receipt of your request to discharge hydro test water onto the right-of-way at the intersection of the Buckeye Lateral LPG pipeline (4 inch) with the Monument Saunders pipeline (6 inch) in Lea County.

I am unable to declare your submittal administratively complete at this time based on the information you provided in your submittal. Also, we need to know the planned date of the HST for completion of the permit, since we allot about 30 days minimum for public notice and a 90 day period for you to complete your test. Please find my comments for your consideration below.

General Provisions:

The submittal does not address the general provisions of: 1) No water used in the hydrostatic testing of a petroleum pipeline shall be discharged in a way that may constitute a hazard to fresh water supplies (you are currently proposing to discharge onto the ground or right-of-way, which is not acceptable to the OCD unless you can satisfy #2 below); and 2) hydrostatic test wastewater that may reach freshwater supplies must be demonstrated that the wastewater discharge meets the quality of the receiving waters, and/or does not cause the groundwater to exceed standards set forth in Section 3103-A, B, and C of the New Mexico Water Quality Control Commission Regulations (your sampling or test program is not within the scope of Item "f" below and the OCD cannot be assured based on your submittal when, how, etc. that you will test your HST water effluent).

Old Pipelines:

1. Old pipelines contain numerous contaminants that can pose potentially severe environmental problems. Since it is unlikely the constituents of the wastewater stream can be determined prior to dewatering, containment of the fluid in lined pits or tanks may be required (you are not proposing containment into a frac tank).

The permit application will include:

b) Description of the proposed test including, if applicable, pigging and washing of the line prior to the hydrotest and disposition of these fluids and solids (you have not provided the details of your test in your submittal);

c) Provide contact information for the source of freshwater used in the HST (a contact name, City of ?, and phone number will suffice for OCD to confirm city water will be used).

e) *Method and location for collection and retention of fluids and solids (you have not provided the details in your submittal);*

f) A monitoring program which includes sampling with a minimum of two samples, the last being from the last 1/4 mile of the pipeline (you did not do this, but sampling from a frac tank may be acceptable and needs to be included in your introduction replacing discharge directly to soils);

g) Available information on the depth and quality of ground water at the proposed discharge site (we need depth information from Section 33- aren't there any water wells in section 33 or near the discharge location?);

i) A plan for the disposal of the test water and solids at the completion of the test including closure of any pits (you are proposing to discharge to the ground or right-of-way, which is not acceptable to the OCD, unless you meet Gen. Provisions #2 above. See comments in "f" above);

j) Identification of landowners at and adjacent to the discharge and collection site (did not see this info. in the submittal except for landowner of right-of-way; is this the only adjacent landowner? Public notice will require notification to landowners);

Unless prior approval of a disposal location has been given, disposition of the test water and solids will be determined after test

results have been analyzed.(prior approval of a disposal location has not been given by OCD; thus, the final disposition will be made after test results; for your proposal, you must assume that HST water will be discharged into a frac tank of sufficient volume instead of stating you will discharge onto the ground.)

Discharge Plan Application

Item 1) In the first paragraph, Chevron needs to assume a discharge to frac tank procedure as the primary procedure and not discharge to the ground or right-of-way.

Item 2) Contact person phone number is missing last digit of telephone number.

Item 3) The numeral "3" is missing and confirmation is needed that the lat./long depicted represents the location of discharge and not Chevron office location would help here.

Item 4) The landowner of the discharge location is Giles Lee, but Chevron is listed. This should be the landowner where the discharge is occurring right?

Item 5) The frac tank(s) will be located where? I presume within proximity to the discharge location right? You didn't explain how spent HST water would be trucked or piped to a frac tank, facility, etc., and could be included here.

Item 7) The 350 bbls or 11,025 gallons of spent HST effluent should be listed here.

Item 8) The description collection, treatment or disposal procedures should be listed here. There is a possibility that the spent water will not meet WQCC Standards and the contingency for disposal or disposition of the waste should be provided here.

Item 11) Contingency plan could require disposal if WQCC water quality limits are not met. A contingency plan should be stated in this section.

Item 13) Facility closure plan should state that if WQCC water quality limits are met, then discharge to right-of-way or ground will be performed at a rate that will not cause storm water runoff problems and/or discharge to nearby playas or waters of the state.

Permit Application (submittal)

1) Section 3: Water quality sampling in the frac tank will be sampled at variable depths. Chevron's detection limits must not exceed WQCC Water Quality Standards. The OCD would accept this if Chevron agrees to a one-time sampling event with comparison of the discreet samples to the WQCC Water Quality Standards and any exceedence from the sample would require Chevron to dispose of waste according to its contingency plan. Currently, there does not seem to be a contingency plan if HST waste in the frac tank does not meet the standards.

2) Section 3: A description of the complete hydrostatic process is not provided in the section. Based on the volume of waste generated from the HST, it appears that Chevron will need to test multiple sections of the 3.3 mile pipeline.

3) Section 4: The name and phone number of the City of Hobbs water district should be included here. Also, it is true that no analysis of the public water test is required by the OCD if the water is from a municipal source; however, it reads as though no analytical will be needed at all after the HST, when the water will be contaminated by LPG constituents. Some clarification that testing will be required post HST is needed here.

4) Section 7.1: There are two Section 7.1's. The addition of "The OCD will be provided with the analytical data and informed of the final disposition of the waste for record keeping purposes."

5) Section 10: Chevron may want to look at property owner within 1/2 mile of the discharge location as per the Public Notice provisions. It appears that the owner Mr. Giles Lee of the discharge location property has consented to the discharge on his property on an un-notarized document.

Other concerns:

1) Chevron should not assume in its application that the discharge will be onto the ground. Chevron should assume the frac tank containerization procedure will be conducted with the contingency that if WQCC water quality standards are met, Chevron will discharge water at a controlled rate to avoid local runoff problems or discharge into nearby playas or waters of the state?

2) We need to know when the HST is scheduled to be performed?

3) The volume of the 3.3 mile NGL pipeline (4 inch) does not correlate with the 350 barrels or 11,025 gallons; thus, it would appear that Chevron will conduct multiple tests throughout the line. This was not explained in the submittal, but needs to be.

4) Be sure that water quality samples utilize detection limits that are below New Mexico's water quality standards or the data will be useless to the OCD.

Please contact me if you have questions. Thank you.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3491
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: http://www.emnrd.state.nm.us/ocd/
(Pollution Prevention Guidance is under "Publications")

CONESTOGA-ROVERS
& ASSOCIATES

6320 Rothway St., Suite 100
Houston, Texas 77040
Telephone: (713) 734-3090 Fax: (713) 734-3391
http://www.craworld.com

Date August 17, 2006 Reference No.: 046834

Mr. Carl Chavez, CHMM
New Mexico Energy, Mineral & Natural Resources Department
Oil Conservation Division, Environmental Bureau
1220 South Street. Francis Drive
Santa Fe, New Mexico 87505

Re: Request for Hydro Test Water Discharge Permit
Texaco Buckeye Lateral
Saunders Pipeline, Lea County, New Mexico

Dear Mr. Chavez;

Enclosed with this letter is the permit application requesting to discharge hydro test water, and payment to the New Mexico OCD in the amount of $250.00 for processing the application. The subject water being discharged will be used to hydrostatically test a dedicated four (4) inch LPG pipeline with approximately 350 barrels of test water acquired from the City of Hobbs water district. The water will be discharged onto the right-of-way (ROW) at the Saunders line tie-in point in Lea County, New Mexico. This application requests authorization to discharge approximately 300-400 hundred barrels of test water onto the pipeline ROW in accordance with specified limits and conditions.

If you require further information or clarification regarding the permit application, please contact me Ken Scott at 713-734-3090 or via e-mail at kscott@craworld.com.

Sincerely,

Ken Scott
Project Manager

Account Number:
Conestoga-Rovers & Associates, Inc.

40NMWAQU **152526**

▼ PLEASE DETACH AND RETAIN FOR YOUR RECORDS ▼

INVOICE NUMBER	DATE		VOUCHER NO.	AMOUNT
CR081506	8/15/2006		400423690	250.00
			TOTAL:	250.00

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

Revised June 10, 2003

Submit Original
Plus 1 Copy
to Santa Fe
1 Copy to Appropriate
District Office

DISCHARGE PLAN APPLICATION FOR SERVICE COMPANIES,GAS PLANTS, REFINERIES, COMPRESSOR, GEOTHERMAL FACILITES AND CRUDE OIL PUMP STATIONS

(Refer to the OCD Guidelines for assistance in completing the application)

☒ New ☐ Renewal ☐ Modification

1. Type: PIPELINE HYDROSTATIC DISCHARGE PERMIT

2. Operator: _CHEVRON PIPE LINE COMPANY

Address: _1426 "CR" 135-2 MILES SOUTH OF I 20-DUNCAN HASTINGS RD. ROSCOE, TX. 79545

Contact Person: MR. JERRY WILLIAMS Phone: (325) 766-365
Location: N 32 47.885 /4 W 103 27.385 /4 Section _33_Township _17S___Range 35E_
Submit large scale topographic map showing exact location.

4. Attach the name, telephone number and address of the landowner of the facility site.
   Chevron Pipe Line Co. – (713) 432-3427 - 4800 Fournace Pl., Bellaire, TX 7701- Attn: S. Patel
5. Attach the description of the facility with a diagram indicating location of fences, pits, dikes and tanks on the facility.
   None. Single pipeline 3.3 miles in length connecting to the Saunders pipeline.
6. Attach a description of all materials stored or used at the facility.
   None.
7. Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste water must be included.
   None.
8. Attach a description of current liquid and solid waste collection/treatment/disposal procedures.
   None.
9. Attach a description of proposed modifications to existing collection/treatment/disposal systems.
   None
10. Attach a routine inspection and maintenance plan to ensure permit compliance.
    Inspected according to permit specifications.
11. Attach a contingency plan for reporting and clean-up of spills or releases.
    Operated according to permit conditions.
12. Attach geological/hydrological information for the facility. Depth to and quality of ground water must be included.
    See attachment in enclosed application.
13. Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.
    None.Operating pipeline.
14. CERTIFICATIONI hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: Kenneth A. Scott Title: Project Manager

Signature: [signature] Date: August 18, 2006

E-mail Address: kscott@craworld.com

CONESTOGA-ROVERS
& ASSOCIATES

6320 Rothway St., Suite 100
Houston, Texas 77040
Telephone: (713) 734-3090 Fax: (713) 734-3391
http://www.craworld.com

OIL CONSERVATION DIVISION PERMIT APPLICATION

HYDROSTATIC TEST WATER DISCHARGE FROM TEXACO BUCKEYE LATERAL TO SAUNDERS PIPELINE ROW, LEA COUNTY, NEW MEXICO

Prepared for:

Chevron Pipeline Company

Health Environment and Safety

4800 Fournace Place – Room E322C

Bellaire, Texas 77401-2324

Project # 046834

August 17, 2006

CONESTOGA-ROVERS
& ASSOCIATES

1.0 INTRODUCTION

Chevron Pipeline Company is requesting authorization from the New Mexico Oil Conservation Division (OCD) to discharge hydrostatic test water acquired from the City of Hobbs water district onto the Right-of Way (R.O.W.) of the Saunders pipeline, in Lea County, New Mexico with the coordinates of N32 47.885 & W 103 27.385. The test water is proposed to be discharged onto the soils of the R.O.W., and then allowed to evaporate to the air and infiltrate shallow soils. The test water will not be discharged to the surface waters of New Mexico. This document provides relevant information identified in the New Mexico OCD, Hydrostatic Test (HST) Discharge Plan Procedure, Revised July, 2006.

The Texaco Buckeye Lateral pipeline was laid in 1965 and has been in active NGL service since that date. The 4 inch pipeline is approximately 3.3 miles in length and is regulated under DOT with the pertinent operating permits. This line is controlled at each end by a single 4-inch block valve used to isolate the line during hydrostatic testing. The discharge location will be on the ROW which is at the Tie-in point to the 6 inch Saunders pipeline. The surrounding area is dedicated oil field tank batteries, pipelines and gathering facilities.

A site location map of the Buckeye Lateral pipeline is attached for your review.

FIGURE 1 – SITE LOCATION MAP

2.0 PIPELINE OWNERS AND CONTACTS

Chevron Pipeline Company owns the subject LPG pipeline. Contact information for Chevron Pipeline Company and Conestoga-Rovers and Associates individuals involved with this project and the development of this application are as follows:

Chevron Pipeline Company Contacts:

Sarah Patel HES East Team Leader Health Environment and Safety 4800 Fournace Place-room E322C Bellaire TX 77401-2324 713-432-3427	Jerry Williams Area Foreman 1426 "CR" 135-2 miles South of I20. Duncan Hastings Rd Roscoe, TX 79545 325-766-3656

CONESTOGA-ROVERS
& ASSOCIATES

Conestoga-Rovers and Associates Contacts:

Robert A. Larsen 6320 Rothway – Suite 100 Houston, TX. 77040 713-734-3090	Thomas C. Larson, P.G. 2135 S. Loop 250 West Midland TX. 79703 432-686-0086
Kenneth A. Scott 6320 Rothway – Suite 100 Houston, TX. 77040 713-734-3090	

3.0 DESCRIPTION OF PROPOSED HYDROSTATIC TEST

The subject pipeline will be filled with approximately 350 barrels (14,700 gallons) of water obtained from the City of Hobbs water district. The pipeline will be under test pressure for a period of 48 hours while the test is being conducted.

Upon the completion of the hydro-test, the water from the pipeline will be discharged into a frac tank for holding and sampled before releasing the water to the ground. Samples will be collected from three levels in the frac tank. The first at one (1) foot below the surface, the second at mid-depth of the liquid, and the last sample will be collected from one (1) foot above the bottom layer. The sample containers will be placed on ice in a cooler and prepared for shipping to Lancaster Laboratory, under proper chain-of-custody procedures.

4.0 SOURCE AND ANALYSIS OF TEST WATER

Water for the pipeline hydro-test will be supplied from the City of Hobbs water district. Approximately 350 barrels (14,700 gallons) will be utilized to perform the test.

According to the Oil Conservation Division, the source water utilized to conduct the hydro-test will not require laboratory analysis since the water is "potable" and being supplied by the City of Hobbs regional water district.

5.0 PRE-DISCHARGE TEST WATER ANALYSIS

As previously described, three grab samples of the hydro-test water will be collected. The water will be analyzed and the results compared to the New Mexico OCD discharge limits outlined in Appendix A. If any of the analytical results are found to exceed the discharge limits, the water will be treated to meet the permit limits prior to discharge. In addition, attached in Appendix B is the proposed testing criteria.

APPENDIX A - OCD DISCHARGE PEMIT LIMITS
APPENDIX B - TESTING CRITERIA

6.0 PROPOSED POINT OF DISCHARGE

The proposed point of discharge is within the pipeline ROW in Lea County with the following coordinates. (32 47.885'N, 103 27.385'W) A site aerial is attached depicting the location of the "Release Point" for the test water.

FIGURE TWO – SITE AERIAL - RELEASE AREA

7.0 TEST WATER TREATMENT METHOD

7.1 Treatment Equipment and Procedure

If the test water in the pipeline meets the permit limits, the water will be discharged without treatment. If the test water does not meet the permit limits, the water will be treated to meet the permit limits and discharged. The treatment method to be used will depend on the quality of the water. It is anticipated that if treatment is needed, the water would be pretreated for any oil sheen and then filtered to the degree necessary to achieve the permit limits. If treatment is required the water will be held in a frac tank prior to discharge while analysis confirms treatment is successful in meeting discharge parameters.

7.1 Waste Disposal

Any waste generated will be disposed off-site in accordance with state and local requirements, and Chevron Pipeline Company protocol.

8.0 DISCHARGE MONITORING

If the quality of the water in the pipeline requires treatment before discharging, the discharge water will be tested twice or according to the issued permit. Samples will be collected by the frac tank volume divided by the required number of samples. As an example, if two samples are required, samples will be collected at the beginning of the discharge and when the frac tank is half emptied.

9.0 GEOLOGICAL/HYDROLOGICAL INFORMATION

APPENDIX C - GEOLOGICAL/HYDROLOGICAL INFORMATION

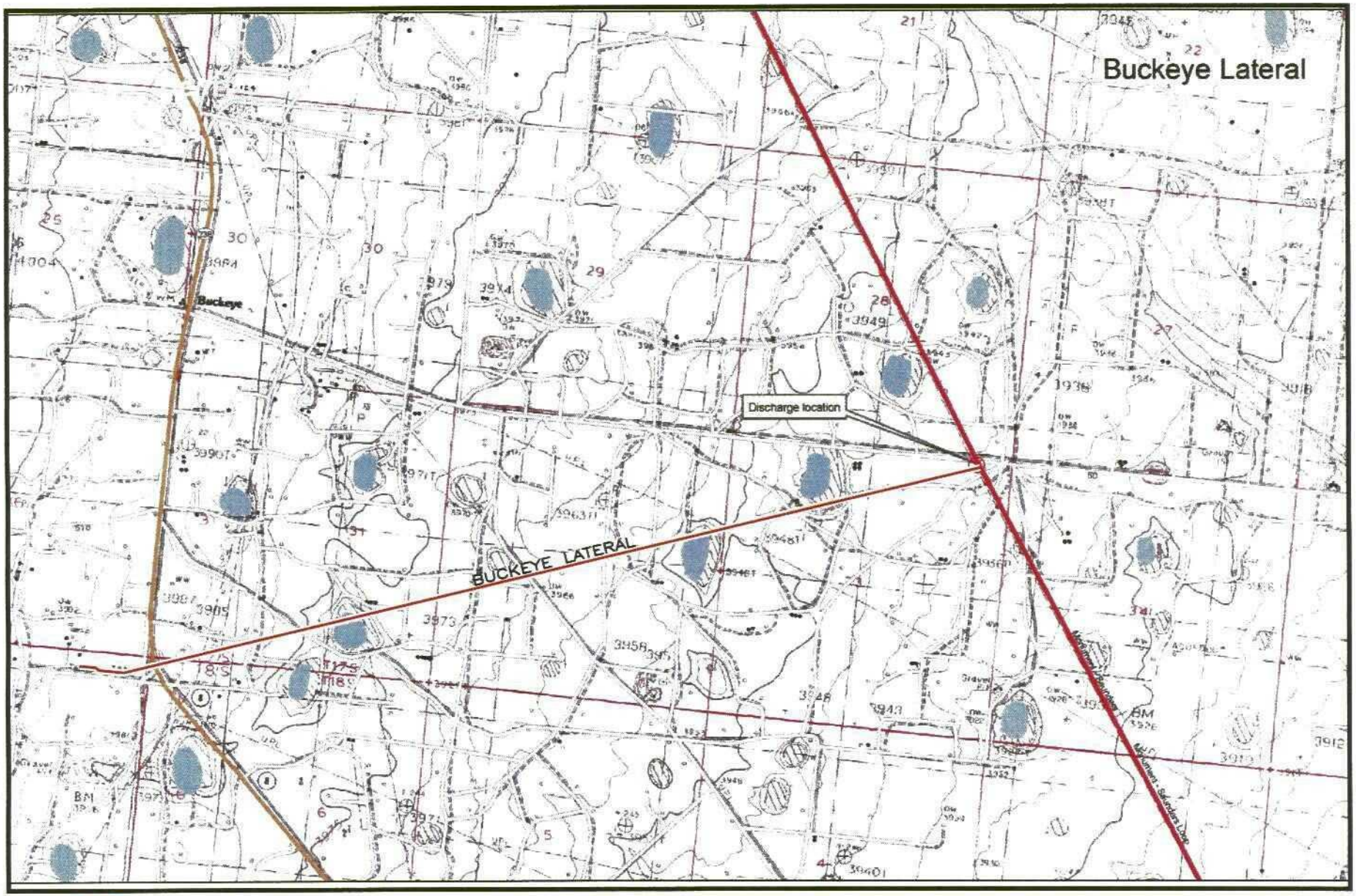
10.0 LANDOWNER AND ADJACENT LANDOWNERS

Chevron Pipeline Company operates the pipeline within a ROW on the land to which the hydro-test water will be discharged. A letter from the adjacent landowner on the pipeline ROW is attached which authorizes Chevron Pipeline Company to discharge the test water onto the right-of-way. See the attached signed letter from the adjacent land owner authorizing Chevron to discharge test water onto the ROW.

APPENDIX D - LANDOWNER AUTHORIZATION

Figure 1

Site Location Map



046834 SLR 081606

SITE LOCATION MAP

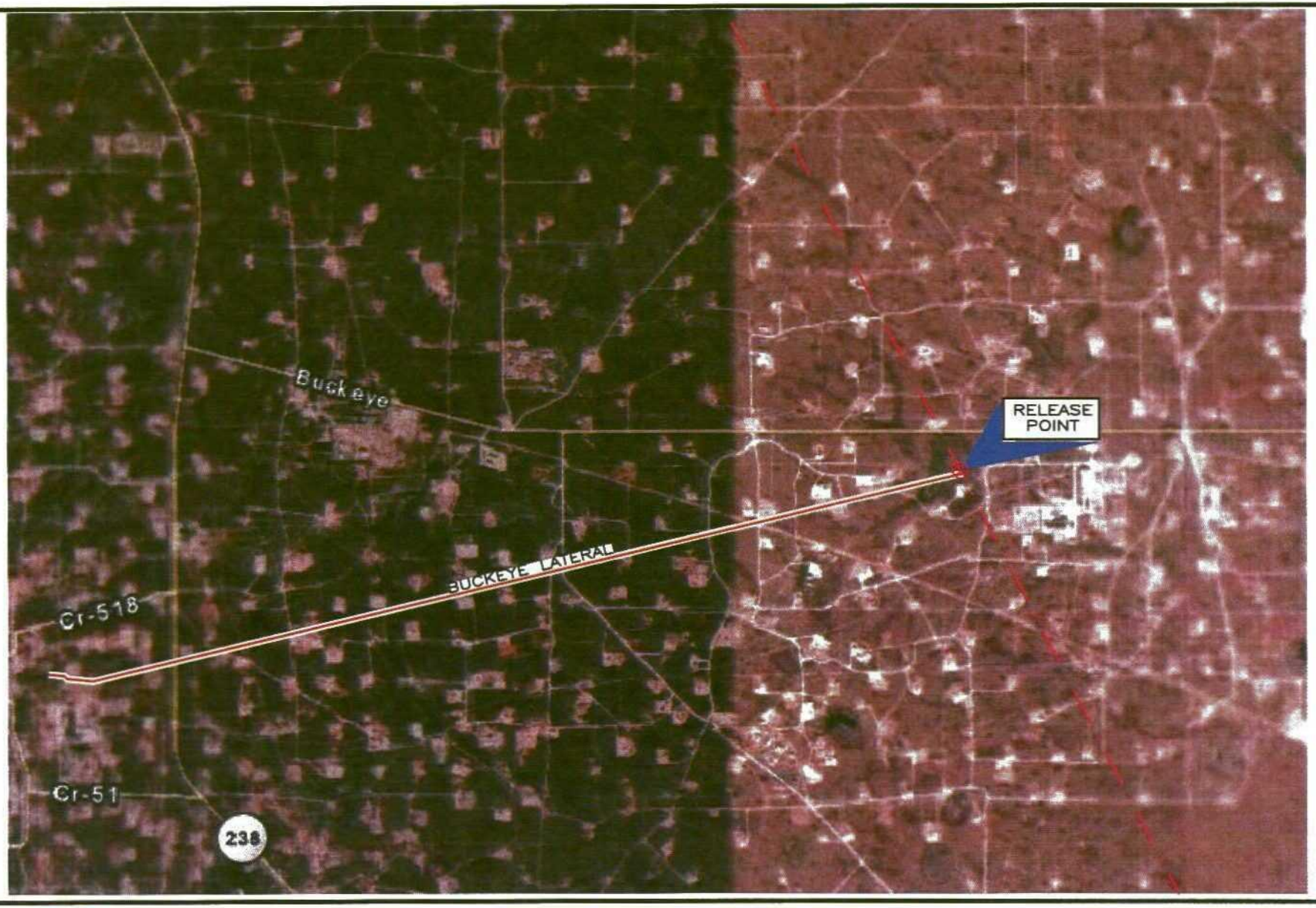
CHEVRON PIPE LINE COMPANY
BUCKEYE LATERAL HYDROTEST
SECTIONS 31, 32, & 33 TOWNSHIP 17 SOUTH RANGE 35 EAST

JOB No.
046834

FIGURE
1

Figure 2

Site Aerial Release Point



046834 SLR 081606

SITE AERIAL	JOB No. 046834
CHEVRON PIPE LINE COMPANY BUCKEYE LATERAL HYDROTEST SECTIONS 31, 32, & 33 TOWNSHIP 17 SOUTH RANGE 35 EAST	FIGURE 2

APPENDIX A

OCD Discharge Permit Limits

Parameters	Discharge Limits (mg/L)
Arsenic	0.1
Barium	1.0
Cadmium	0.01
Chromium	0.05
Lead	0.05
Total Mercury	0.002
Selenium	0.05
Silver	0.05
Benzene	0.01
Toluene	0.75
Ethylbenzene	0.75
Total Xylene	0.62

APPENDIX B

Type of Analysis	Analyte	Method No.
Wet Chemistry	Bi-Carbonate (HCO3)	310.1
	Carbonate (CO3)	310.1
	Chloride (Cl)	300.0
	Floride (F)	300.0
	Sulfate (SO4)	300.0
	Bromide (B)	300.0
	Total Dissolved Solids (TDS)	160.1
	pH	150.1
	Specific Conductance	120.1
Metals	Iron (Fe)	6010B
	Calcium (Ca)	6010B
	Manganese (Mn)	6010B
	Magnesium (Mg)	6010B
	Sodium (Na)	6010B
	Potassium (K)	6010B
	Arsenic (As)	6010B
	Barium (Ba)	6010B
	Cadmium (Cd)	6010B
	Chromium (Cr)	6010B
	Lead (Pb)	6010B
	Selenium (Se)	6010B
	Silver (Ag)	6010B
	Mercury(Hg)	7470A
Volatiles	Full List of volatiles	8260B
NORM	Radium 226	EPA –E903.0
	Radium 228	EPA- E904.0

BUCKEYE LATERAL
SECTIONS 31, 32, 33 in T-17-S; R-35-E

GEOLOGICAL/HYDROLOGICAL INFORMATION

According to water well information presented in the New Mexico Office of the State Engineer W.A.T.E.R.S. database, the depth to groundwater from a well in section 31 was recorded at 115 feet in 1990 (most recent measurement). Several other wells in the area have depth to water measurements ranging from 50 to 95 feet from gauging events dating between 1961 and 1974. The New Mexico Environment Department office in Clovis, New Mexico reported that groundwater levels in this area have been steadily decreasing over the past few decades as a result of significant removals from the regional aquifer.

The primary aquifer in this project area is referred to as the Southern High Plains or Ogallala aquifer. Regional groundwater flow direction is toward the southeast. The aquifer provides good quality drinking water with total dissolved solid (TDS) concentrations typically in the range of 1000 milligrams per liter. Recharge occurs primarily via infiltration from precipitation events.

The *Geologic Map of New Mexico (2003)* prepared by the New Mexico Bureau of Geology and Mineral Resources maps the discharge area as the Ogallala Formation. The Ogallala Formation (lower Pliocene to middle Miocene in age) is described as "alluvial and eolian deposits, and petrocalcic soils of the Southern High Plains".

The United States Department of Agriculture – Natural Resources Conservation Service (NRCS) website was accessed to obtain soil information in the project area. The primary soil unit mapped in the project area is the Kimbrough – Lea complex (KU). The unit is described to have a gravelly loam texture in the top six inches with a "cemented material" texture from six to sixteen inches. The thin soil layers are typically underlain by an indurated (hardened) calcium carbonate interval locally referred to as "caliche" - of variable thickness. Several playa lakes were also noted proximate to the project area.

3477

TO WHOM IT MAY CONCERN:

I GILES LEE DO GIVE MY PERMISSION FOR WATER DISCHARGE ONTO THE PROPERTY OF WHICH A 4" LPG PIPELINE CROSSES, SAID PIPE LINE IS OWNED & OPERATED BY CHEVRON PIPELINE COMPANY. THE WATER TO BE DISCHARGED SHALL MEET OR EXCEED ALL And ANY REGULATORY AGENCY REQUIREMENTS, IN WRITING OF WHICH A COPY OF TEST RESULTS SHALL BE FURNISHED TO THE REQUIRED AGENCIES AND MYSELF BEFORE DISCHARGE WILL BE ALLOWED.

~~WRITTEN~~
COMPOSED BY:
JERRY WILLIAMS
PROJECT COORD.
CHEVRON PIPELINE CO.
8-9-06 Jerry Williams

APPROVED BY:
Giles Lee