

GW - 310

**GENERAL
CORRESPONDENCE**

YEAR(S):

2006 - 1995

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2007 NOV 13 AM 11 55



Environmental Department
188 County Road 4900
Bloomfield, NM 87413
505/632-4625
505/632-4781 Fax

November 7, 2007

Mr. Leonard Lowe
Oil Conservation Division, EMNRD
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RE: Update to Williams Four Corners, LLC OCD Discharge Plans

Dear Mr. Lowe,

Williams Four Corners, LLC (Williams) would like to update the "Description of Final Disposition" for wastes generated at its facilities, and to include clarification of sources of waste streams not previously specified in its existing OCD Discharge Plans. These items are discussed in Table 1, "Storage and Disposal of Process Fluids, Effluent and Waste Solids", and Table 2, "Source, Quantity, and Quality of Effluent and Waste Solids", in each of Williams' current facility-specific OCD Discharge Plans. (Note that in older plans, these table numbers are reversed).

More specifically, the updates to Table 1 include replacing language that stated waste would be disposed at a "NMOCD-approved" or simply "approved" disposal facility with text that states waste will be disposed at "any state, federal, or tribal agency to receive industrial solid waste. Any waste that is determined to be hazardous as defined by 40 CFR 260-265 will be disposed only at a facility permitted to accept such hazardous waste." Recently, Williams has had some difficulty using NMED-approved disposal sites due to the current language.

Updates to Table 2 include expanding the "Source" of "Used Process Filters" to include amine filters, charcoal, activated carbon, and molecular sieve in addition to the air, inlet, fuel, fuel gas and glycol filters typically included in the Discharge Plans. Additionally, the "Source" of "Condensate and/or Produced Water" has been expanded to include the inlet scrubber, gas inlet separator, and dehydrators. These changes are included for clarification purposes only and provide a more descriptive list of waste that may be generated at the facilities. All of the items listed are related to existing processes at the facilities.

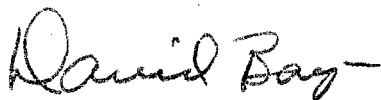
Please see the attached Table 1 and Table 2, from the recent OCD Discharge Plan renewal application for Williams' Rosa Compressor Station, for an example of how the updates apply at a typical Williams' facility. The updated information is indicated by bold text. We will update this information in each OCD Discharge Plan as it comes up for renewal. In the meantime, we request that the updates described herein are effective immediately for the sites listed below upon your receipt of this letter.

Five Points (GW-078)
29-6#2 (GW-121)
29-6#3 (GW-198)
29-6#4 (GS-122)
30-5 (GW-108)
31-6 (GW-118)
32-7 (GW-117)
32-8#2 (GW-111)
32-8#3 (GW-116)
32-9 (GW-091)
Aztec (GW-155)
Blanco (GW-327)
Cabresto (GW-352)
Carracas (GW-112)
Cedar Hill (GW-087)
Chaco (GW-331)
Coyote (GW-250)
Crouch Mesa (GW-129)
Culpepper (GW-353)
Decker Junction (GW-134)
Dogie (GW-330)
El Cedro (GW-149)
Glade (GW-321)
Hare (GW-343)
Honolulu (GW-315)
Horse Canyon (GW-061)
Horton (GW-323)
Kernaghan (GW-271)

La Cosa (GW-187)
Laguna Seca (GW-307)
La Jara (GW-223)
Lateral N-30 (GW-256)
Lawson Straddle (GW-322)
Lybrook (GW-047)
Manzanares (GW-062)
Martinez (GW-308)
Middle Mesa (GW-064)
Milagro (GW-060)
Navajo (GW-182)
North Crandell (GW-310)
Pipkin (GW-120)
Pritchard (GW-274)
Pump Mesa (GW-063)
Quintana Mesa (GW-309)
Richardson (GW-320)
Sims Mesa (GW-068)
Snowshoe (GW-287)
Thompson (GW-328)
Trunk A (GW-248)
Trunk B (GW-249)
Trunk C (GW-257)
Trunk L (GW-180)
Trunk M (GW-181)
Trunk N (GW-306)
Wildhorse (GW-079)

These updates are not significant and do not pose a hazard to public health or undue risk to property. These facilities do not discharge wastewater to surface or subsurface waters. All wastes generated at these facilities are temporarily stored in tanks or containers.

Respectfully submitted,



David Bays
Senior Environmental Specialist

Attachment

Table 1
Transfer, Storage and Disposal of Process Fluids, Effluent and Waste Solids

PROCESS FLUID/WASTE	STORAGE	STORAGE CAPACITY (approximate)	CONTAINMENT/ SPILL PREVENTION	RCRA STATUS	DESCRIPTION OF FINAL DISPOSITION
Used Oil	Above Ground Storage Tank	500 gal*	Berm or concrete pad and wastewater system	Non-exempt	May be hauled to a Williams or contractor consolidation point before transport to EPA-registered used oil marketer for recycling.
Produced Water/Natural Gas Condensate	Above Ground Storage Tank	300 bbl 120 bbl 40 bbl	Berms	Exempt	Saleable liquids may be sold to refinery. The remaining liquids may be transported to a Williams' evaporation facility or may be disposed at any facility permitted by any state, federal, or tribal agency to receive industrial solid waste. Any waste that is determined to be hazardous as defined by 40 CFR 260-265 will be disposed only at a facility permitted to accept such hazardous waste.
Wash-down Water	Below Grade Sump, vaulted	70 bbl 45 bbl	Dual-walled tanks	Non-exempt	Contractor may pump wash water back into truck after washing; water may be transported to any facility permitted by any state, federal, or tribal agency to receive industrial solid waste ; or evaporation at Williams' facility may be considered. Any waste that is determined to be hazardous as defined by 40 CFR 260-265 will be disposed only at a facility permitted to accept such waste.
Used Oil Filters	Drum or other container	Varies	Transported in drum or other container	Non-exempt	Transported to a Williams or contractor consolidation point, drained, and ultimately transported for disposal at any facility permitted by any state, federal, or tribal agency to receive industrial solid waste. Any waste that is determined to be hazardous as defined by 40 CFR 260-265 will be disposed only at a facility permitted to accept such hazardous waste. A Waste Acceptance Profile will be filed with the disposal facility as necessary. Recycling options may be considered when available.
Used Process Filters	Drum or other container	Varies	Transported in drum or other container	Exempt	Transported to a Williams or contractor consolidation point, drained, and ultimately transported for disposal at any facility permitted by any state, federal, or tribal agency to receive industrial solid waste. Any waste that is determined to be hazardous as defined by 40 CFR 260-265 will be disposed only at a facility permitted to accept such hazardous waste. A Waste Acceptance Profile will be filed with the disposal facility as necessary. Recycling options may be considered when available.
Spill Residue (e.g., soil, gravel, etc.)	N/A	N/A	In situ treatment, land-farm, or alternate method	Incident dependent	Per Section VI, Remediation, in 8/13/93 NMOCD Guidelines for Remediation of Leaks, Spills, and Releases.
Used Absorbents	Drum or other container	Varies	Transported in drum or other container	Non-exempt	Transported to a Williams or contractor consolidation point, drained, and ultimately transported for disposal at any facility permitted by any state, federal, or tribal agency to receive industrial solid waste. Any waste that is determined to be hazardous as defined by 40 CFR 260-265 will be disposed only at a facility permitted to accept such hazardous waste. A Waste Acceptance Profile will be filed with the disposal facility as necessary. Recycling options may be considered when available.
Empty Drums / Containers	N/A	N/A	Berm	Non-exempt	Barrels are returned to supplier or transported to a Williams or contractor consolidation point and ultimately recycled/disposed consistent with applicable regulations.
Antifreeze	Above Ground Storage Tank		Berm or concrete pad and wastewater system	N/A	Off-spec material recycled or disposed consistent with applicable regulations.
Glycol	Above Ground Storage Tank	500 gal* 125 gal* 100 gal*	Berm or concrete pad and wastewater system	N/A	Off-spec material recycled or disposed consistent with applicable regulations.
Lube Oil	Above Ground Storage Tank	500 gal*	Berm or concrete pad and wastewater system	N/A	Off-spec material recycled or disposed consistent with applicable regulations.

*Number of tanks installed dependent on number of engines and dehydrators installed on site. Engines and dehydrators are installed or removed to meet demand.

Table 2
Source, Quantity, and Quality of Effluent and Waste Solids

PROCESS FLUID / WASTE	SOURCE	QUANTITY (Ranges)	QUALITY
Produced Water/Natural Gas Condensate	Inlet Scrubber, Gas Inlet Separator, Dehydrators	2000-8000 bbl/year	No Additives
Waste Water/Wash Down Water	Compressor and Dehy Skids	100-5000 gal/year/unit	Biodegradable soap and tap water with traces of used oil
Used Oil	Compressors	500-2000 gal/year/engine	Used Motor Oil w/ No Additives
Used Oil Filters	Compressors	50-500/year/engine	No Additives
Used Process Filters	Charcoal, Activated Carbon, Molecular Sieve	50-500 cubic yd/yr	No Additives
Used Process Filters	Air, Inlet, Fuel, Fuel Gas, Glycol, Amine, Ambitrol	75-500/year	No Additives
Empty Drums/Containers	Liquid Containers	0-80/year	No Additives
Spill Residue (i.e. soil, gravel, etc)	Incidental Spill	Incident Dependent	Incident Dependent
Used Adsorbents	Incidental Spill/Leak Equipment Wipe-down	Incident Dependent	No Additives

2006 AUG 23 AM 11 44



Environmental Department
188 County Road 4900
Bloomfield, NM 87413
505/632-4606
505/632-4781 Fax

August 22, 2006

Mr. Wayne Price
New Mexico Oil Conservation Division
Environmental Bureau
1220 South St. Francis Drive
Santa Fe, NM 87505

Re: Change of Company Name

Dear Mr. Price;

In accordance with Conditions of Discharge Plan Approval attached to each discharge plan approved by the New Mexico Oil Conservation Division, we hereby provide notice of a change of ownership for the Williams facilities identified in the attached table to Williams Four Corners, LLC.

As a corporate strategy, Williams has created regional limited liability corporations for our assets. So, although a new corporation has been created, Williams Four Corners LLC is still a wholly-owned unit of Williams, and there is no change of corporate ownership for these facilities. Williams will continue to comply with the terms and conditions of all approved discharge plans. All other administrative items (responsible official, environmental contacts, mailing addresses, etc.) remain unchanged.

If you have any questions, please call David Bays, Senior Environmental Specialist, at (505) 632-4951 or Ingrid Deklau of Cirrus Consulting at (801) 583-3107.

Sincerely,

A handwritten signature in cursive script that reads "David Bays".

David Bays
Senior Environmental Specialist

Attachments

xc: Clara Cardoza
Monica Sandoval
WFS FCA file 210

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. [REDACTED] dated 1-20-04,
or cash received on _____ in the amount of \$ 1700

from Williams Field Services

for North Crandall CS

GW-310

Submitted by: _____ Date: _____
(Facility Name) (OP No.)

Submitted to ASD by: _____ Date: _____

Received in ASD by: _____ Date: _____

Filing Fee _____ New Facility _____ Renewal _____

Modification _____ Other _____
(Specify)

Organization Code 521.07 Applicable FY 2001

To be deposited in the Water Quality Management Fund.

Full Payment _____ or Annual Increment _____

THIS MULTI-TONE AREA OF THE DOCUMENT CHANGES COLOR GRADUALLY AND EVENLY FROM DARK TO LIGHT WITH DARKER AREAS BOTH TOP AND BOTTOM. IT ALSO HAS A REFLECTIVE WATERMARK ON THE BACK.

Williams

WILLIAMS FIELD SERVICES COMPANY
P.O. Box 71218 • Tulsa, OK 74121-1218

70-25821-717
ATC 9401187

DATE: 01/20/2004

PAY TO THE ORDER OF:

PAY *******\$1,700.00**

WATER MANAGEMENT QUALITY MANAGEMENT FUND
C/O OIL CONSERVATION DIV
1220 S ST FRANCIS DR

SANTA FE

NM 87505

Bank One, NA
Illinois

Jan E. Day
Authorized Signer



Environmental Affairs
188 CR 4900
Bloomfield, NM 87413
505/632-4606
505/632-4781 Fax

January 29, 2004

Mr. Jack Ford
New Mexico Oil Conservation Division
Water Quality Management Fund
2040 South Pacheco
Santa Fe NM 87505

Re: Discharge Plan GW-307, -308, -309, -310

Dear Mr. Ford:

Enclosed please find the signed copy of the discharge plan conditions for the Williams Field Services (WFS) Laguna Seca, Martinez Draw, Quintana Mesa and North Grandell Compressor Stations. Also included are checks 3500028332, 3500028333, 3500028334 and 3500028334 to cover the flat fee required by the approval conditions.

Williams Field Services appreciates your assistance in handling these approvals and processing the fees. If you have any questions or require additional information, please contact me at 505/632/4606.

Thank you,

A handwritten signature in black ink, appearing to read "Clara M. Garcia", followed by a long horizontal flourish.

Clara M. Garcia
Environmental Compliance

enclosures

Xc: Denny Foust, Aztec, OCD Dist III (without attachments)

THE SANTA FE
NEW MEXICAN

Founded 1849

RECEIVED

DEC 02 2003

OIL CONSERVATION
DIVISION

NM OIL CONSERVATION D
1220 ST. FRANCIS DR
ATT MARY ANAYA
SANTA FE NM 87505

ALTERNATE ACCOUNT: 56689
AD NUMBER: 00039982 ACCOUNT: 00002212
LEGAL NO: 74386 P.O. #: 04-199-050340
433 LINES 1 TIME(S) 296.56
AFFIDAVIT: 5.25
TAX: 20.19
TOTAL: 322.00

AFFIDAVIT OF PUBLICATION

STATE OF NEW MEXICO
COUNTY OF SANTA FE

I, B. Perner, being first duly sworn declare and say that I am Legal Advertising Representative of THE SANTA FE NEW MEXICAN, a daily newspaper published in the English language, and having a general circulation in the Counties of Santa Fe and Los Alamos, State of New Mexico and being a newspaper duly qualified to publish legal notices and advertisements under the provisions of Chapter 167 on Session Laws of 1937; that the publication # 74386 a copy of which is hereto attached was published in said newspaper 1 day(s) between 12/01/2003 and 12/01/2003 and that the notice was published in the newspaper proper and not in any supplement; the first date of publication being on the 1st day of December, 2003 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

/s/ B. Perner
LEGAL ADVERTISEMENT REPRESENTATIVE

Subscribed and sworn to before me on this 1st day of December, 2003

Notary Laurel J. Harding
Commission Expires: 11/23/07

**NOTICE OF
PUBLICATION
STATE OF
NEW MEXICO
ENERGY, MINERALS
AND NATURAL
RESOURCES
DEPARTMENT
OIL CONSERVATION
DIVISION**

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge permit application(s) has been submitted to the Director of the Oil Conservation Division, 1220 S. Saint Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

(GW-151) - El Paso Natural Gas Company, Robert H. St. John, Principal Environmental Scientist, (432) 686-3268, 3300 North "A" Building Two, Suite 200, Midland, TX 79705, has submitted its discharge permit renewal application for its Eunice B Compressor Station located in the NW/4 NW/4 of Section 5, Township 21 South,

Range 36 East, NMPM, Lea County, New Mexico. Approximately 50 gallons per day of wastewater will be stored in above-ground, steel tanks prior to disposal at an OCD-approved offsite disposal facility. Groundwater most likely to be affected in the event of an accidental discharge is at an estimated depth of approximately 160 feet with a total dissolved solids concentration of approximately 1,000 mg/l. The discharge permit addresses how oil field products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water.

(GW-353) - Williams Field Services, Michael K. Lane, (505) 632-4625, 118 CR 4900, Bloomfield, New Mexico 87413, has submitted a discharge permit renewal application for the Williams Field Services Culpapper Compressor Station located in the NE/4 NE/4 of Section 1, Township 31 North, Range 13 West, NMPM, San Juan County, New Mexico. Approximately 500 to 1,500 barrels per year of processed water is stored in an above ground double-walled fiberglass storage tank prior to transport to an OCD approved off-site disposal facility. The total dissolved solids (TDS) of the produced water is approximately 1,100 milligrams per liter (mg/l). Ground water most likely to be affected in the event of an accidental discharge at the surface is at a depth of 50 to 200 feet with estimated total dissolved solids concentration ranging from approxi-

mately 200 mg/l to 2000 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-310) - Williams Field Services, Michael K. Lane, (505) 632-4625, 118 CR 4900, Bloomfield, New Mexico 87413, has submitted a discharge permit renewal application for the Williams Field Services North Crandall Compressor Station located in the SW/4 NE/4 of Section 2, Township 30 North, Range 11 West, NMPM, San Juan County, New Mexico. Approximately 500 to 2,000 barrels per year of processed water is stored in an above ground double-walled fiberglass storage tank prior to transport to an OCD approved off-site disposal facility. The total dissolved solids (TDS) of the produced water is approximately 1,100 milligrams per liter (mg/l). Ground water most likely to be affected in the event of an accidental discharge at the surface is at a depth of 7 to 20 feet with estimated total dissolved solids concentration ranging from approximately 397 mg/l to 987 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-307) - Williams Field Services, Michael K. Lane, (505) 632-4625, 118 CR 4900, Bloomfield, New Mexico 87413, has submitted a discharge permit renewal application for the Williams Field Services Laguna Seca Compressor Station located in the SW/4 of Section 19, Township 31 North, Range 5 West, NMPM,

Rio Arriba County, New Mexico. Approximately 2000 to 9000 barrels per year of produced and waste water is stored in an above ground storage tank prior to transport to an approved Williams Field Services evaporation facility or an OCD approved off-site disposal facility. The total dissolved solids (TDS) of the produced water is approximately 1,100 milligrams per liter (mg/l). Ground water most likely to be affected in the event of an accidental discharge at the surface is at a depth of 100 to 400 feet with estimated total dissolved solids concentration of approximately 2,000 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-308) - Williams Field Services, Michael K. Lane, (505) 632-4625, 118 CR 4900, Bloomfield, New Mexico 87413, has submitted a discharge permit renewal application for the Williams Field Services Martinez Draw Compressor Station located in the NE/4 NE/4 of Section 17, Township 31 North, Range 5 West, NMPM, Rio Arriba County, New Mexico. Approximately 2800 gallons per year of processed water is stored in a below ground double-walled fiberglass storage tank prior to transport to an OCD approved off-site disposal facility. The total dissolved solids (TDS) of the produced water is approximately 1,100 milligrams per liter (mg/l). Ground water most likely to be affected in the event of an accidental discharge at the surface is at a depth of 100 to 600 feet with estimated total dissolved solids concentration ranging from approximately 335 mg/l to 2,000 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

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(GW-309) - Williams Field Services, Michael K. Lane, (505) 632-4625, 118 CR 4900, Bloomfield, New Mexico 87413, has submitted a discharge permit renewal application for the Williams Field Services Quintana Mesa Compressor Station located in the SE/4 SW/4 of Section 32, Township 32 North, Range 5 West, NMPM, Rio Arriba County, New Mexico. Approximately 2800 gallons per year of processed water is stored in a below ground double-walled fiberglass storage tank prior to transport to an OCD approved off-site disposal facility. The total dissolved solids (TDS) of the produced water is approximately 1,100 milligrams per liter (mg/l). Ground water most likely to be affected in the event of an accidental discharge at the surface is at a depth of 100 to 600 feet with estimated total dissolved solids concentration ranging from approximately 335 mg/l to 2,000 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-115) - Halliburton Energy Services, Saul Medina, (505) 392-0701, 2311 South First Street, Artesia, New Mexico 88210, has submitted a discharge application for the Halliburton Service facility located in Section 28, Township 17 South, Range 26 East, NMPM, Eddy

County, New Mexico. Approximately 3,500 gallons per day of wastewater is collected in the truck wash rack and floor sump then discharged into the City of Artesia Sewage Treatment System (POTW). Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 25 feet with a total dissolved solids concentration ranging from 1200 mg/l to 3500 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge permit application and draft discharge permit may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. The draft discharge permit may also be viewed at OCD's web site <http://www.emnrd.state.nm.us/ocd/>. Prior to ruling on any proposed discharge permit or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed permit based on information

available. If a public hearing is held, the director will approve or disapprove the proposed permit based on information in the permit and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 18th day of November 2003.

STATE OF
NEW MEXICO
OIL CONSERVATION
DIVISION

SEAL
LORI WROTENBERY,
Director
Legal #74388
Pub: December 1, 2003

STATE OF NEW MEXICO
County of San Juan

CONNIE PRUITT, being duly sworn says:
That she is the CLASSIFIED MANAGER of
THE DAILY TIMES, a daily newspaper of
general circulation published in English at
Farmington, said county and state, and that
the hereto attached Legal Notice was
published in a regular and entire issue of the
said DAILY TIMES, a daily newspaper duly
qualified for the purpose within the meaning of
Chapter 167 of the 1937 Session Laws of the
State of New Mexico for publication and
appeared on the Internet at The Daily Times
web site on the following day(s):
Sunday, November 30, 2003.

And the cost of the publication is \$146.24.

Connie Pruitt

ON 12-4-03 CONNIE PRUITT
appeared before me, whom I know personally
to be the person who signed the above
document.

Danny Beck
My Commission Expires April 2, 2004.

COPY OF PUBLICATION

Legal

OFFICE OF PUBLICATION
STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge permit application(s) has been submitted to the Director of the Oil Conservation Division, 1220 S. Saint Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

(GW-353) - Williams Field Services, Michael K. Lane, (505) 632-4625, 118 CR 4900, Bloomfield, New Mexico 87413, has submitted a discharge permit renewal application for the Williams Field Services Culpepper Compressor Station located in the NE/4 NE/4 of Section 1, Township 31 North, Range 13 West, NMPM, San Juan County, New Mexico. Approximately 500 to 1,500 barrels per year of processed water is stored in an above ground double-walled fiberglass storage tank prior to transport to an OCD approved off-site disposal facility. The total dissolved solids (TDS) of the produced water is approximately 1,100 milligrams per liter (mg/l). Ground water most likely to be affected in the event of an accidental discharge at the surface is at a depth of 50 to 200 feet with estimated total dissolved solids concentration ranging from approximately 200 mg/l to 2000 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-310) - Williams Field Services, Michael K. Lane, (505) 632-4625, 118 CR 4900, Bloomfield, New Mexico 87413, has submitted a discharge permit renewal application for the Williams Field Services North Crandall Compressor Station located in the SW/4 NE/4 of Section 2, Township 30 North, Range 11 West, NMPM, San Juan County, New Mexico. Approximately 500 to 2,000 barrels per year of processed water is stored in an above ground double-walled fiberglass storage tank prior to transport to an OCD approved off-site disposal facility. The total dissolved solids (TDS) of the produced water is approximately 1,100 milligrams per liter (mg/l). Ground water most likely to be affected in the event of an accidental discharge at the surface is at a depth of 7 to 20 feet with estimated total dissolved solids concentration ranging from approximately 397 mg/l to 987 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-307) - Williams Field Services, Michael K. Lane, (505) 632-4625, 118 CR 4900, Bloomfield, New Mexico 87413, has submitted a discharge permit renewal application for the Williams Field Services Laguna Seca Compressor Station located in the SW/4 of Section 19, Township 31 North, Range 5 West, NMPM, Rio Arriba County, New Mexico. Approximately 2000 to 9000 barrels per year of produced and waste water is stored in an above ground storage tank prior to transport to an approved Williams Field Services evaporation facility or an OCD approved off-site disposal facility. The total dissolved solids (TDS) of the produced water is approximately 1,100 milligrams per liter (mg/l). Ground water most likely to be affected in the event of an accidental discharge at the surface is at a depth of 100 to 400 feet with estimated total dissolved solids concentration of approximately 2,000 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-308) - Williams Field Services, Michael K. Lane, (505) 632-4625, 118 CR 4900, Bloomfield, New Mexico 87413, has submitted a discharge permit renewal application for the Williams Field Services Martinez Draw Compressor Station located in the NE/4 NE/4 of Section 17, Township 31 North, Range 5 West, NMPM, Rio Arriba County, New Mexico. Approximately 2800 gallons per year of processed water is stored in a below ground double-walled fiberglass storage tank prior to transport to an OCD approved off-site disposal facility. The total dissolved solids (TDS) of the produced water is approximately 1,100 milligrams per liter (mg/l). Ground water most likely to be affected in the event of an accidental discharge at the surface is at a depth of 100 to 600 feet with estimated total dissolved solids concentration ranging from approximately 335 mg/l to 2,000 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-309) - Williams Field Services, Michael K. Lane, (505) 632-4625, 118 CR 4900, Bloomfield, New Mexico 87413, has submitted a discharge permit renewal application for the Williams Field Services Quintana Mesa Compressor Station located in the SE/4 SW/4 of Section 32, Township 32 North, Range 5 West, NMPM, Rio Arriba County, New Mexico. Approximately 2800 gallons per year of processed water is stored in a below ground double-walled fiberglass storage tank prior to transport to an OCD approved off-site disposal facility. The total dissolved solids (TDS) of the produced water is approximately 1,100 milligrams per liter (mg/l). Ground water most likely to be affected in the event of an accidental discharge at the surface is at a depth of 100 to 600 feet with estimated total dissolved solids concentration ranging from approximately 335 mg/l to 2,000 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

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ENERGY, MINERALS
AND NATURAL
RESOURCES
DEPARTMENT
OIL CONSERVATION
DIVISION**

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(GW-151) - El Paso Natural Gas Company, Robert H. St. John, Principal Environmental Scientist, (432) 686-3268, 3300 North "A" Building Two, Suite 200, Midland, TX 79705, has submitted its discharge permit renewal application for its Eunice B Compressor Station located in the NW/4 of Section 5,

Range 36 East, NMPM, Lea County, New Mexico. Approximately 50 gallons per day of wastewater will be stored in above-ground, steel tanks prior to disposal at an OCD-approved offsite disposal facility. Groundwater most likely to be affected in the event of an accidental discharge is at an estimated depth of approximately 160 feet with a total dissolved solids concentration of approximately 1,000 mg/l. The discharge permit addresses how oil field products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water.

(GW-353) - Williams Field Services, Michael K. Lane, (505) 632-4625, 118 CR 4900, Bloomfield, New Mexico 87413, has submitted a discharge permit renewal application for the Williams Field Services Culpeper Compressor Station located in the NE/4 NE/4 of Section 1, Township 31 North, Range 13 West, NMPM, San Juan County, New Mexico. Approximately 500 to 1,500 barrels per year of processed water is stored in an above ground double-walled fiberglass storage tank prior to transport to an OCD approved off-site disposal facility. The total dissolved solids (TDS) of the produced water is approximately 1,100 milligrams per liter (mg/l). Groundwater most likely to be affected in the event of an accidental discharge at the surface is at a depth of 50 to 200 feet with estimated total dissolved

solids concentration mately 200 mg/l to 2000 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-310) - Williams Field Services, Michael K. Lane, (505) 632-4625, 118 CR 4900, Bloomfield, New Mexico 87413, has submitted a discharge permit renewal application for the Williams Field Services North Crandall Compressor Station located in the SW/4 NE/4 of Section 2, Township 30 North, Range 11 West, NMPM, San Juan County, New Mexico. Approximately 500 to 2,000 barrels per year of processed water is stored in an above ground double-walled fiberglass storage tank prior to transport to an OCD approved off-site disposal facility. The total dissolved solids (TDS) of the produced water is approximately 1,100 milligrams per liter (mg/l). Groundwater most likely to be affected in the event of an accidental discharge at the surface is at a depth of 7 to 20 feet with estimated total dissolved solids concentration ranging from approximately 397 mg/l to 987 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-307) - Williams Field Services, Michael K. Lane, (505) 632-4625, 118 CR 4900, Bloomfield, New Mexico 87413, has submitted a discharge permit renewal application for the Williams Field Services Laguna Seca Compressor Station located in the SW/4 of Section 19, Township 31 North

Rio Arriba County, New Mexico. Approximately 2000 to 9000 barrels per year of produced and waste water is stored in an above ground storage tank prior to transport to an approved Williams Field Services evaporation facility or an OCD approved off-site disposal facility. The total dissolved solids (TDS) of the produced water is approximately 1,100 milligrams per liter (mg/l). Groundwater most likely to be affected in the event of an accidental discharge at the surface is at a depth of 100 to 400 feet with estimated total dissolved solids concentration of approximately 2,000 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-308) - Williams Field Services, Michael K. Lane, (505) 632-4625, 118 CR 4900, Bloomfield, New Mexico 87413, has submitted a discharge permit renewal application for the Williams Field Services Martinez Draw Compressor Station located in the NE/4 NE/4 of Section 17, Township 34 North, Range 5 West, NMPM, Rio Arriba County, New Mexico. Approximately 2800 gallons per year of processed water is stored in a below ground double-walled fiberglass storage tank prior to transport to an OCD approved off-site disposal facility. The total dissolved solids (TDS) of the produced water is approximately 1,100 milligrams per liter (mg/l). Groundwater most likely to be affected in the event of an accidental discharge at the surface is at a depth of 100 to 600 feet with estimated total dissolved solids concentration ranging from approximately 335 mg/l to 2,000 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

mated total dissolved solids concentration ranging from approximately 335 mg/l to 2,000 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-309) - Williams Field Services, Michael K. Lane, (505) 632-4625, 118 CR 4900, Bloomfield, New Mexico 87413, has submitted a discharge permit renewal application for the Williams Field Services Quintana Mesa Compressor Station located in the SE/4 SW/4 of Section 32, Township 32 North, Range 5 West, NMPM, Rio Arriba County, New Mexico. Approximately 2800 gallons per year of processed water is stored in a below ground double-walled fiberglass storage tank prior to transport to an OCD approved off-site disposal facility. The total dissolved solids (TDS) of the produced water is approximately 1,100 milligrams per liter (mg/l). Groundwater most likely to be affected in the event of an accidental discharge at the surface is at a depth of 100 to 600 feet with estimated total dissolved solids concentration ranging from approximately 335 mg/l to 2,000 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-115) - Halliburton Energy Services, Saul Medina, (505) 392-0701, 2311 South First Street, Artesia, New Mexico 88210, has submitted a discharge application for the Halliburton Service facility located in Section 28, Township 17 South, Range 26

County, New Mexico. Approximately 3,500 gallons per day of wastewater is collected in the truck wash rack and floor sump then discharged into the City of Artesia Sewage Treatment System (POTW). Groundwater most likely to be affected in the event of an accidental discharge is at a depth of approximately 25 feet with a total dissolved solids concentration ranging from 1200 mg/l to 3500 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge permit application and draft discharge permit may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. The draft discharge permit may also be viewed at OCD's web site <http://www.emnrd.state.nm.us/ocd/>. Prior to ruling on any proposed discharge permit or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed permit

available. If a public hearing is held, the director will approve or disapprove the proposed permit based on information in the permit and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 18th day of November 2003.

STATE OF
NEW MEXICO
OIL CONSERVATION
DIVISION

SEAL
LORI WROTENBERY,
Director
Legal #74389
Pub. December 1, 2003

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

6W-310

I hereby acknowledge receipt of check No. [REDACTED] dated 9/23/03,
or cash received on _____ in the amount of \$ 400

from Williams Field Services

for see attached

Submitted by: _____
(Facility Name)

[Signature]

Date: 10-22-03
(DP No.)

Submitted to ASD by: _____

Date: _____

Received in ASD by: _____

Date: _____

Filing Fee ☒

New Facility _____

Renewal ☒

Modification _____

Other _____
(specify)

Organization Code 521.07

Applicable FY 2001

To be deposited in the Water Quality Management Fund.

Full Payment ☒ or Annual Increment _____

THIS MULTI-TONE AREA OF THE DOCUMENT CHANGES COLOR GRADUALLY AND EVENLY FROM DARK TO LIGHT WITH DARKER AREAS BOTH TOP AND BOTTOM. IT ALSO HAS A REFLECTIVE WATERMARK ON THE BACK.

Williams

WILLIAMS FIELD SERVICES COMPANY
P.O. Box 21218 • Tulsa, OK 74121-1218

70-212219
A/C 9401167

DATE: 09/23/2003

PAY TO THE ORDER OF

PAY →

*****\$400.00

NEW MEXICO OIL CONSERVATION DIV
WATER QUALITY MANAGEMENT FUND
2040 S PACHECO

SANTA FE
United States

NM 87505

Bank One, NA
Illinois

[Signature]
Authorized Signer



Environmental Affairs
188 CR 4900
Bloomfield, NM 87413
505/632-4606
505/632-4781 Fax

October 21, 2003

Mr. Jack Ford
New Mexico Oil Conservation Division
Water Quality Management Fund
1220 S St. Francis Dr.
Santa Fe NM 87505

Re: Discharge Plan GW-307, 308, 309 and 310 Application Renewal and Filing Fee

Dear Mr. Ford:

Enclosed please find copies of Discharge Plan application renewal and check number 3500018517 for \$400.00 to cover the filling fee for the following Williams Field Services (WFS) Compressor Stations:

- Laguna Seca CS (GW-307)
- Martinez Draw CS (GW-308)
- North Crandall CS (GW-310)
- Quintana Mesa CS (GW-309)

Williams Field Services appreciates your assistance in handling these applications and fees. If you have any questions or require additional information, please contact me at 505/632/4606.

Thank you,

A handwritten signature in black ink, appearing to read "Clara M Garcia", with a horizontal line extending to the right.

Clara M Garcia
Environmental Compliance

Xc: Denny Foust, Aztec, OCD Dist III



**NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT**

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

July 16, 1999

CERTIFIED MAIL
RETURN RECEIPT NO. Z-274-520-515

Ms. Ingrid A. Deklau
Williams Field Services
P.O. Box 58900
Salt Lake City, Utah 84108

**RE: Site Modifications Notification
GW-310, North Crandall Compressor Station
San Juan County, New Mexico**

Dear Ms. Deklau:

The OCD has received the site modification letter, dated July 9, 1999, from Williams Field Services for the North Crandall Compressor Station GW-310 located in SW/4 NE/4, Section 2, Township 30 North, Range 11 West, NMPM, San Juan County, New Mexico. The requested addition of one 800 horsepower compressor and additional storage is considered a minor modification to the above referenced discharge plan and public notice will not be issued. **The site modifications are approved without modification to the discharge plan with the stipulation that all modifications comply with the discharge plan approved January 19, 1999.**

Please note that Section 3104 of the regulations requires that **"When a plan has been approved, discharges must be consistent with the terms and conditions of the plan."** Pursuant to Section 3107.C Williams Field Services is required to notify the Director of any facility expansion, production increase, or process modification that would result in any change in the discharge of water quality or volume. Further, this approval does not relieve Williams Field Services from liability should operations result in contamination to the environment.

Sincerely,

Roger C. Anderson
Bureau Chief, Environmental Bureau
Oil Conservation Division

cc: Mr. Denny Foust - Aztec District Office

Z 274 520 515

US Postal Service

Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Sent to <i>Jagrid</i>	
Street & Number <i>WFS</i>	
Post Office, State, & ZIP Code <i>SLC</i>	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date <i>GW-310</i>	

PS Form 3800, April 1995



295 Chipeta Way
P.O. Box 58900
Salt Lake City, UT 84108
801/584-6543
801/584-7760

July 9, 1999

Mr. Roger Anderson
New Mexico Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

Re: OCD Discharge Plan Modification: North Crandall Compressor Station (GW-310)

Dear Mr. Anderson:

Williams Field Services (WFS) plans to install additional compression and storage capacity at the North Crandall site in August, 1999. Modifications to the September 1998 Discharge Plan prepared for this site (approved January 19, 1999) are discussed below. An updated site plot plan is also attached for your reference.

- **Section II; Legally Responsible Party.** The Legally Responsible Party for this site is technically Williams Gas Processing- Blanco. No other changes are necessary in this section.
- **Section V; Facility Description.** There is currently one 1100 horsepower (hp) Superior 8 GTL compressor engine (Engine 1) at the site (site rated at 1059 hp). One additional 800 hp compressor (Engine 2, Waukesha 7042GL) is planned for installation. This unit will be referred to as the Hampton compressor. Upon installation, total horsepower at the site will be just under 1900.
- **Section VI; Source, Quantity and Quality of Effluents and Waste Solids.** Table 1, attached following the close of this letter, has been updated to illustrate source, quantity, and quality of effluent and waste solids generated at the site. Note that the generation of natural gas condensate, used oil filters, and waste water is expected to increase.
- **Section VII; Transfer, Storage and Disposal of Process Fluids, Effluents, and Waste Solids.** Table 2, attached below, has been updated to illustrate the transfer, storage, and disposal of process fluids, effluents, and waste solids. Note that the 210-bbl condensate tank is being exchanged for a 300-bbl tank, one additional 500-gal lube oil tank will be installed, and an additional drum of ambitrol will be stored on site.
- **Section VIII; Inspection, Maintenance and Reporting.** Production Operators, Incorporated (POI) and/or WFS personnel will be responsible for the operation and maintenance of the

compressors at this site. The responsible operator/maintenance personnel will comply with the inspection, maintenance and reporting requirements as described in the September 1998 Discharge Plan.

Table 1, Table 2, and an updated site plot plan are attached following this closing. If you have any questions, I can be reached at (801) 584-6543. Your assistance in handling this is appreciated.

Sincerely,



Ingrid A. Deklau
Environmental Specialist

enclosures

xc: Denny Foust, Aztec OCD Office

TABLE 1
SOURCE, QUANTITY, AND QUALITY OF EFFLUENT AND WASTE SOLIDS
NORTH CRANDELL COMPRESSOR STATION

PROCESS FLUID/WASTE	SOURCE	QUANTITY (estimate)	QUALITY
Used Oil	Compressor	400 gal/yr/engine	Used motor oil w/no additives
Natural Gas Condensate	Liquid Receiver, Scrubbers and Inlet Separators	1200 bbl/yr	No additives
Waste Water	Drawn off Condensate Tank	240 bbl/year	No additives
Wash-down Water	Compressor Skid	500 gal/yr/engine	Soap and tap water w/traces of used oil
Spill Residue (i.e., soil and gravel)	Incidental spills	Incident dependent	Incident dependent
Used Absorbents	Incidental spill/leak equipment wipe-down	Incident dependent	No additives
Oil Filters	Compressor	48/yr/Sup. engine 28/yr/7042 engine	No additives

TABLE 2
TRANSFER, STORAGE, AND DISPOSAL OF PROCESS FLUIDS, EFFLUENTS, AND WASTE SOLIDS
NORTH CRANDELL COMPRESSOR STATION

PROCESS FLUID/WASTE	SOURCE	STORAGE	CONTAINER CAPACITY (approximate)	CONTAINMENT/ SPILL PREVENTION	RCRA STATUS	DESCRIPTION OF FINAL DISPOSITION
Natural Gas Condensate	Liquid Receiver, Scrubbers, and Inlet Separators	Above Ground Storage Tank	300 bbl	Berm	Exempt	Saleable liquids may be sold to refinery or liquid may be disposed at NMOCD- approved facility.
Waste Water	Inlet Separators, Scrubbers, and Liquid Receiver	Double-bottom tank	70 bbl	Berm	Exempt	Water left to evaporate on site. If evaporation is not sufficient, water may be transported to NMOCD-approved facility.
Wash-down Water	Compressor skids	Below-ground tank	750 gallons	Double-walled, fiberglass tank	Non-exempt	Contractor may pump washwater back into truck after washing; water may be transported to NMOCD-approved facility; or evaporation at WFS facility may be considered in future.
Ambitrol	For use in compressor	Day tank adjacent to each engine	1) 500 gal 2) 55 gal	Berm	N/A	N/A
Compressor Oil	For use in compressor	Day tank adjacent to each engine	500 gallons	Berm	N/A	N/A
Used Oil	Compressor	Day tank adjacent to Engine 1	500 gallons	Berm	Non-exempt	Transported to EPA-registered used oil marketer for recycling.
Used Oil Filters	Compressor	Drum or other container	up to 55 gallons	Transported to WFS or POI facility in drum or other container	Non-exempt	Filters will be taken to WFS or POI consolidation point, drained, and ultimately transported for disposal at a Regional Landfill. A Waste Acceptance Profile will be filed with the landfill. Recycling options may be considered whenever available.
Used Absorbents	Incidental spills or leaks	Drum or other container	up to 55 gallons	Transported to WFS or POI facility in drum or other container	Non-exempt	Absorbents will be taken to WFS or POI consolidation point, drained/wrung, and ultimately transported for disposal at a Regional Landfill. A Waste Acceptance Profile will be filed at the landfill. Recycling options may be considered whenever available.
Spill Residue (i.e., soil, gravel)	Incidental spills	N/A	N/A	In situ treatment, land-farm, or alternate method	Incident dependent	Per Section VI, Remediation, in 8/13/93 NMOCD Guidelines for Remediation of Leaks, Spills, and Releases.



1. ALL UNDERGROUND PIPING INSTALLED SHALL BE HAND CLEANED, PRIMED AND TAPED WITH POLYKEN PRODUCT PER THE SPECIFICATION IN THE CONTRACT DOCUMENTS.
 2. ALL DIMENSIONS, ELEVATIONS AND DEPTHS TO BE FIELD VERIFIED.
 3. ALL UNDERGROUND PIPING TO HAVE A MINIMUM OF 36" COVER
 4. ALL PIPE COATING TO BE EXTENDED TO 6" ABOVE GRADE.
 5. SLEEPERS SHALL BE INSTALLED UNDER EACH LINE UNDER RISERS.
 6. ALL EXPOSED PIPING AND STEEL STRUCTURES SHALL BE PRIMED AND TWO COAT PAINTED PER THE CONTRACT SPECIFICATIONS.
 7. ALL 3" AND LARGER PIPE SHALL BE 100% X-RAYED.
 8. CONTRACTOR'S WORK SHALL COMPLY WITH DOT 192, ASME B31.8 AND API 1104
 9. THE COMPRESSOR PAD CHAIN LINK FENCE WILL BE MODIFIED BY OTHERS. THE CONTRACTOR WILL PROVIDE MATERIALS FOR AND MODIFICATION OF THE HOG WIRE FENCE SURROUNDING THE CONDENSATE TANK SYSTEM.
 10. RELIEF VALVE PIPING TO EXTEND ABOVE COOLER WITH ADEQUATE BRACING.
- ☒ DENOTES SLEEPER LOCATIONS

DESIGN DATA	HYDROTEST REQUIREMENTS	MINIMUM X-RAY REQUIREMENTS
	SUCTION PIPING	
CLASS: 1 FACTOR: 0.5 MAOP: 265 PSIG	400 PSIG MIN. - 500 PSIG MAX. 4 HR. DURATION	100% - 3" AND ABOVE
	DISCHARGE PIPING	
CLASS: 1 FACTOR: 0.5 MAOP: 720 PSIG	1110 PSIG MIN. - 1210 PSIG MAX. 4 HR. DURATION	100% - 3" AND ABOVE

WARNING: ABOVE REQUIREMENTS BASED ON NEW CONSTRUCTION, GRADE B MATERIAL. MINIMUM PIPE WALL THICKNESS STATED IN GATHERING FACILITY DESIGN STATEMENT, AND WFS QVI/CWI OBSERVING ACTUAL WELDING ANY VARIANCE MAY ALTER ABOVE REQUIREMENTS.

[illegible]

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. dated 1/27/99,
or cash received on in the amount of \$ 2760.⁰⁰

from WILLIAMS FIELD SERVICES CO.

NO. CRANDALL COMP ST GW-310 / LA GUNA SECA GW-307
for MARTINEZ DRAW COMP ST GW-308 / QUINTANA MESA GW-309

Submitted by: (Facility Name) R. Lopez - NMOS Date: (DP No.) 2/2/99

Submitted to ASD by: Date:

Received in ASD by: Date:

Filing Fee New Facility Renewal

Modification Other

(specify)

Organization Code 521.07 Applicable FY 99

To be deposited in the Water Quality Management Fund.

Full Payment or Annual Increment

GW-307, 308, 309, + 310

Williams Field Services Company

4341 NEW MEXICO OIL CONSERVATION DI

01/27/99

INVOICE NUMBER	DESCRIPTION	INVOICE DATE	AMOUNT	DISCOUNT	NET AMOUNT
012699	NO. CRANDALL COMP.	01/19/99	690.00	0.00	690.00
012699A	LAGUNA SECA COMPRE	01/20/99	690.00	0.00	690.00
012699B	MARTINEZ DRAW COMP	01/20/99	690.00	0.00	690.00
012699C	QUINTANA MESA COMP	01/20/99	690.00	0.00	690.00
			2760.00	0.00	2760.00

PLEASE DETACH BEFORE DEPOSITING



Williams Field Services Company
P. O. Box 58900
Salt Lake City, Utah 84158-0900

Chase Manhattan Bank Delaware
1201 Market Street
Wilmington DE 19801

62-26 5736-09
311

DATE	CHECK NO.	NET AMOUNT
01/27/99		2760.00

PAY

TWO THOUSAND SEVEN HUNDRED SIXTY AND 00/100-----

TO THE
ORDER
OF

NEW MEXICO OIL CONSERVATION DI
NM WATER QUALITY MGMT FUND
2040 SOUTH PACHECO
SANTA FE NM 87504

Mary Jane Pittick
TREASURER

Williams Field Services Company

4341 NEW MEXICO OIL CONSERVATION DI

01/27/99

INVOICE NUMBER	DESCRIPTION	INVOICE DATE	AMOUNT	DISCOUNT	NET AMOUNT
012699	NO. CRANDALL COMP.	01/19/99	690.00	0.00	690.00
012699A	LAGUNA SECA COMPRE	01/20/99	690.00	0.00	690.00
012699B	MARTINEZ DRAW COMP	01/20/99	690.00	0.00	690.00
012699C	QUINTANA MESA COMP	01/20/99	690.00	0.00	690.00
			2760.00	0.00	2760.00

PLEASE DETACH BEFORE DEPOSITING



Williams Field Services Company
P. O. Box 58900
Salt Lake City, Utah 84158-0900

Chase Manhattan Bank Delaware
1201 Market Street
Wilmington DE 19801

62-26 5736-09
311

DATE	CHECK NO.	NET AMOUNT
01/27/99	107296	2760.00

PAY

TWO THOUSAND SEVEN HUNDRED SIXTY AND 00/100-----

TO THE
ORDER
OF

NEW MEXICO OIL CONSERVATION DI
NM WATER QUALITY MGMT FUND
2040 SOUTH PACHECO
SANTA FE NM 87504

Mary Jane Bittick
TREASURER

⑈0107296⑈ ⑆031100267⑆6301457366 509⑈

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. [REDACTED] dated 9/2/98,
or cash received on _____ in the amount of \$ 50.00

from WFS
for No Cranell CS GW-310

Submitted by: _____ Date: _____
(Facility Name) (DP No.)

Submitted to ASD by: R. Chindan Date: 1-11-99

Received in ASD by: _____ Date: _____

Filing Fee ☒ New Facility _____ Renewal _____

Modification _____ Other _____
(specify)

Organization Code 521.07 Applicable FY 99

To be deposited in the Water Quality Management Fund.

Full Payment _____ or Annual Increment _____



Williams Field Services Company
P. O. Box 58900
Salt Lake City, Utah 84158-0900

Chase Manhattan Bank Delaware
1201 Market Street
Wilmington DE 19801

62-26 5736-09
311

DATE	CHECK NO.	NET AMOUNT
09/02/98	[REDACTED]	50.00

PAY
FIFTY AND 00/100-----

TO THE
ORDER
OF

NEW MEXICO OIL CONSERVATION DI
NM WATER QUALITY MGMT FUND
2040 SOUTH PACHECO
SANTA FE NM 87504

Mary Jane Pittick
TREASURER



Williams Field Services Company

4341 NEW MEXICO OIL CONSERVATION DI

09/02/98

INVOICE NUMBER	DESCRIPTION	INVOICE DATE	AMOUNT	DISCOUNT	NET AMOUNT
090198		09/01/98	50.00	0.00	50.00
			50.00	0.00	50.00

GW-310
No. Crandell CS
87

PLEASE DETACH BEFORE DEPOSITING

The Santa Fe New Mexican

Since 1849. We Read You.

DEC - 8 1998

NM OCD

AD NUMBER: 57607 ACCOUNT:
LEGAL NO: 64499 P.O.#: 99199000357
171 LINES 1 time(s) at \$ 64.07
AFFIDAVITS: 5.25
TAX: 4.33
TOTAL: 73.65

AFFIDAVIT OF PUBLICATION

NOTICE OF PUBLICATION

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan application(s) have been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

(GW-310) - Williams Field Services, Ingrid A. Deklau, (801) 584-6543, P.O. Box 58900, Salt Lake City, Utah 84158-0900, has submitted a discharge plan application for the North Crandell Compressor Station located in the SW/4 NE/4 of Section 2, Township 30 North, Range 11 West, NMPM, San Juan County, New Mexico. Approximately 40 gallons per month of waste water is collected in a fiberglass storage tank then transported offsite for disposal. Ground water most likely to be affected in the event of an accidental discharge is at a depth ranging from of approximately 7 to 20 feet with a total dissolved solids concentration ranging from approximately 397 mg/l to 987 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may

obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application(s) may be viewed at the above address between 8:00 a.m and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan application(s), the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted and a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed plan(s) based on information available. If a public hearing is held, the Director will approve or disapprove the proposed plan(s) based on the information in the discharge plan application(s) and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 3rd day of November 1998.

STATE OF NEW MEXICO
OIL CONSERVATION
DIVISION
LORI WROTENBERY,
Director

Legal #64499
Pub. November 23, 1998

STATE OF NEW MEXICO COUNTY OF SANTA FE

I, B. Pruner being first duly sworn declare and say that I am Legal Advertising Representative of THE SANTA FE NEW MEXICAN, a daily newspaper published in the English language, and having a general circulation in the Counties of Santa Fe and Los Alamos, State of New Mexico and being a Newspaper duly qualified to publish legal notices and advertisements under the provisions of Chapter 167 on Session Laws of 1937; that the publication #64499 a copy of which is hereto attached was published in said newspaper 1 day(s) between 11/23/1998 and 11/23/1998 and that the notice was published in the newspaper proper and not in any supplement; the first publication being on the 23 day of November, 1998 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

/S/ _____
LEGAL ADVERTISEMENT REPRESENTATIVE

Subscribed and sworn to before me on this
23 day of November A.D., 1998

Notary _____

Commission Expires _____

AFFIDAVIT OF PUBLICATION

No. 40388

STATE OF NEW MEXICO

County of San Juan:

DENISE HENSON, being duly sworn says: That she is the Classified Manager of THE DAILY TIMES, a daily newspaper of general circulation published in English at Farmington, said county and state, and that the hereto attached Legal Notice was published in a regular and entire issue of the said DAILY TIMES, a daily newspaper duly qualified for the purpose within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico for publication on the following day(s):

Monday, November 23, 1998

and the cost of publication is: \$66.11

Denise Henson

On 11-24-98 DENISE HENSON

appeared before me, whom I know personally to be the person who signed the above document.

Dwight Beck
My Commission Expires April 2, 2000.

COPY OF PUBLICATION

Legals

NOTICE OF PUBLICATION

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

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If no public hearing is held, the Director will approve or disapprove the proposed plan(s) based on information available. If a public hearing is held, the Director will approve or disapprove the proposed plan(s) based on the information in the discharge plan application(s) and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 3rd day of November, 1998.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

/s/Roger C. Anderson for
LORI WROTENBERY, Director

SEAL

Legal No. 40388, published in The Daily Times, Farmington, New Mexico, Monday, November 23, 1998.

The Santa Fe New Mexican

Since 1849 We Read You

NM OCD

AD NUMBER: 57607 ACCOUNT:
LEGAL NO: 64499 P.O.#: 99199000357
171 LINES 1 time(s) at \$ 64.07
AFFIDAVITS: 5.25
TAX: 4.33
TOTAL: 73.65

AFFIDAVIT OF PUBLICATION

NOTICE OF PUBLICATION

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 3rd day of November 1998.

STATE OF NEW MEXICO
OIL CONSERVATION
DIVISION
LORI WROTENBERY,
Director

Legal #64499
"Pub." November 23, 1998

STATE OF NEW MEXICO COUNTY OF SANTA FE

I, B. Perner being first duly sworn declare and say that I am Legal Advertising Representative of THE SANTE FE NEW MEXICAN, a daily newspaper published in the English language, and having a general circulation in the Counties of Santa Fe and Los Alamos, State of New Mexico and being a Newspaper duly qualified to publish legal notices and advertisements under the provisions of Chapter 167 on Session Laws of 1937; that the publication #64499 a copy of which is hereto attached was published in said newspaper 1 day(s) between 11/23/1998 and 11/23/1998 and that the notice was published in the newspaper proper and not in any supplement; the first publication being on the 23 day of November, 1998 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

/S/

Betty Perner
LEGAL ADVERTISEMENT REPRESENTATIVE

Subscribed and sworn to before me on this 23 day of November A.D., 1998

Notary

Laura E. Harding

Commission Expires

11/23/99



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

November 17, 1998

Farmington Daily Times
Attention: Advertising Manager
Post Office Box 450
Farmington, New Mexico 87401

Re: Notice of Publication

Dear Sir/Madam:

Please publish the attached notice one time immediately on receipt of this request. Please proofread carefully, as any error in a land description or in a key word or phrase can invalidate the entire notice.

Immediately upon completion of publication, please send the following to this office:

- 1. Publisher's affidavit in duplicate.*
- 2. Statement of cost (also in duplicate).*
- 3. Certified invoices for prompt payment.*

We should have these immediately after publication in order that the legal notice will be available for the hearing which it advertises, and also so that there will be no delay in your receiving payment.

Please publish the notice no later than November 24, 1998

Sincerely,

Sally Martinez
Sally Martinez
Administrative Secretary

Attachment

Z 765 963 589

Receipt for
Certified Mail

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Sent to	Farmington Daily Times	
Street and	P.O. Box 450	
P.O., State and ZIP Code	Farmington, NM 87401	
Postage	\$	
Certified Fee		
Special Delivery Fee		
Restricted Delivery Fee		
Return Receipt Showing to Whom & Date Delivered		
Return Receipt Showing to Whom, Data, and Addressee's Address		
TOTAL Postage & Fees	\$	
Postmark or Date		

NOTICE OF PUBLICATION

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

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Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application(s) may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan application(s), the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted and a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed plan(s) based on information available. If a public hearing is held, the Director will approve or disapprove the proposed plan(s) based on the information in the discharge plan application(s) and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 3rd day of November 1998.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION



for LORI WROTENBERY, Director

S E A L

NOTICE OF PUBLICATION

**STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION**

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan renewal application has been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

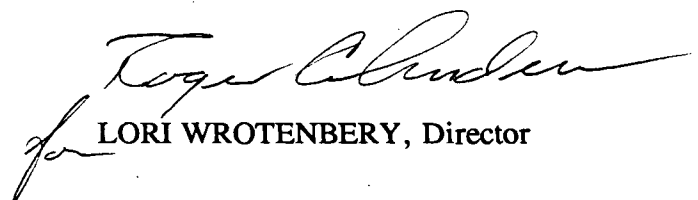
(GW-154) - EL PASO ENERGY CORPORATION, 614 Reilly Avenue, Farmington, New Mexico 87401-2634 has submitted an application for their ANGEL PEAK 2B3B COMPRESSOR STATION located in the NE/4 NW/4 of Section 8, Township 27 North, Range 10 West, San Juan County, New Mexico. Approximately 2 gallons per day of process wastewater with a dissolved solids concentration of 3500 mg/l is stored in closed steel tanks prior to transport off-site to an OCD approved disposal facility. Ground water most likely to be affected in the event of an accidental discharge at the surface is at a depth greater than 150 feet with a total dissolved solids concentration of approximately 500 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and public hearing may be requested by any interested person. Requests for public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 2 nd day of November, 1998.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


LORI WROTENBERY, Director

S E A L



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

November 17, 1998

The New Mexican
Attention: Betsy Perner
202 East Marcy
Santa Fe, New Mexico 87501

**Re: Notice of Publication
PO#99-199-000357**

Dear Ms. Perner:

Please publish the attached notice one time immediately on receipt of this request. Please proofread carefully, as any error in a land description or in a key word or phrase can invalidate the entire notice.

Immediately upon completion of publication, please send the following to this office:

- 1. Publisher's affidavit.**
- 2. Invoices for prompt payment.**

We should have these immediately after publication in order that the legal notice will be available for the hearing which it advertises, and also so that there will be no delay in your receiving payment.

Please publish the notice no later than November 23, 1998.

Sincerely,

Lupe Sherman
Administrative Secretary

Attachment

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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 3rd day of November 1998.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION



for LORI WROTENBERY, Director

S E A L

NOTICE OF PUBLICATION

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ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION**

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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 3rd day of November 1998.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION



for LORI WROTENBERY, Director

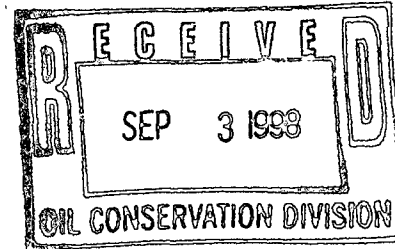
S E A L



295 Chipeta Way
P.O. Box 58900
Salt Lake City, UT 84108
801/584-6543
801/584-7760

September 1, 1998

Ms. Lori Wrotenbery
New Mexico Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505




Re: Discharge Plan Application Fee for North Crandell Compressor Station; San Juan County

Dear Ms. Wrotenbery:

Enclosed please find a check number 94800 for \$50.00 to cover the discharge plan application fee for Williams Field Services North Crandell Compressor Station located in San Juan County, New Mexico. Also enclosed, please find one copy of the North Crandell Discharge Plan application.

Williams Field Services appreciates your assistance in handling this application. If you have any questions or require additional information, please do not hesitate to contact me at (801) 584-6543.

Sincerely,


Ingrid Deklau
Environmental Specialist

Enclosures

Xc: Denny Foust, OCD District III Office

Handwritten notes:
G...
New...

Williams Field Services Company

4341 NEW MEXICO OIL CONSERVATION DI

09/02/98

INVOICE NUMBER	DESCRIPTION	INVOICE DATE	AMOUNT	DISCOUNT	NET AMOUNT
090198		09/01/98	50.00	0.00	50.00
			50.00	0.00	50.00

PLEASE DETACH BEFORE DEPOSITING



Williams Field Services Company
P. O. Box 58900
Salt Lake City, Utah 84158-0900

Chase Manhattan Bank Delaware
1201 Market Street
Wilmington DE 19801

62-26 5736-C
311

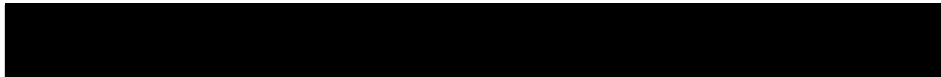
DATE	CHECK NO.	NET AMOUNT
09/02/98		50.00

PAY
FIFTY AND 00/100-----

TO THE
ORDER
OF

NEW MEXICO OIL CONSERVATION DI
NM WATER QUALITY MGMT FUND
2040 SOUTH PACHECO
SANTA FE NM 87504

Mary Jane Bittick
TREASURER



DISCHARGE PLAN

Nov 2

NORTH CRANDELL COMPRESSOR STATION

9 42 - 10 10

Williams Field Services Company

September, 1998

State of New Mexico
Energy, Minerals and Natural Resources Department
OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87501

**DISCHARGE PLAN APPLICATION FOR NATURAL GAS PROCESSING PLANTS,
OIL REFINERIES AND GAS COMPRESSOR STATIONS**

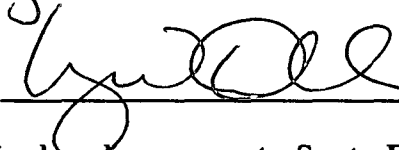
(Refer to OCD Guidelines for assistance in completing the application.)

- I. TYPE: Natural Gas Compressor Station (North Grandell)
- II. OPERATOR: Williams Field Services
ADDRESS: 295 Chipeta Way, Salt Lake City, UT 84108
CONTACT PERSON: Ingrid Deklan PHONE: 801-266-1222
- III. LOCATION: SW 1/4 NE 1/4 Section 2 Township 30-N Range 11-W
Submit large scale topographic map showing exact location.
- IV. Attach the name and address of the landowner(s) of the disposal facility site.
- V. Attach description of the facility with a diagram indicating location of fences, pits, dikes, and tank on the facility.
- VI. Attach a description of sources, quantities and quality of effluent and waste solids.
- VII. Attach a description of current liquid and solid waste transfer and storage procedures.
- VIII. Attach a description of current liquid and solid waste disposal procedures.
- IX. Attach a routine inspection and maintenance plan to ensure permit compliance.
- X. Attach a contingency plan for reporting and clean-up of spills or releases.
- XI. Attach geological/hydrological evidence demonstrating that disposal of oil field wastes will not adversely impact fresh water. Depth to and quality of ground water must be included.
- XII. Attach such other information as is necessary to demonstrate compliance with any other OCI rules, regulations and/or orders.
- XIII. CERTIFICATION

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: Ingrid Deklan

Title: Env't'l Specialist

Signature: 

Date: Sept 1, 1998

DISTRIBUTION: Original and one copy to Santa Fe with one copy to appropriate Division District Office

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- Figure 1 - Site Location Map
- Figure 2 - Site Survey Plan
- Figure 3 - Facility Plot Plan
- Figure 4 - Below Grade Tank Diagram

List of Appendices

- Appendix A - Waste Analysis
- Appendix B - Spill Control Procedures
- Appendix C - NMOCD Notification of Fire, Breaks, Spills, Leaks, and Blowouts
- Appendix D - Well Search Results

I. TYPE OF OPERATION

The North Crandell Compressor Station will provide metering and compression services to various producers for the gathering of natural gas for treatment and delivery through Williams Field Services (WFS) Kutz Plant.

II. LEGALLY RESPONSIBLE PARTY

Williams Field Services
295 Chipeta Way
Salt Lake City, Utah 84108
(801) 584-6543

Contact Person:

Ingrid Deklau, Environmental Specialist
Phone and Address, Same as Above

III. LOCATION OF FACILITY

The North Crandell Compressor Station will be located in the SW/4 of the NE/4 of Section 2, Township 30 North, Range 11 West, in San Juan County, New Mexico, approximately 2 miles northeast of Aztec, New Mexico. A Site Location map is attached (USGS 7.5 Min. Quadrangle: Aztec Quadrangle) as Figure 1. The site for this station is 2.12 acres. The site boundary survey and facility layout are illustrated in Figure 2 and Figure 3.

IV. LANDOWNER

Williams Field Services is leasing the subject property from:

State of New Mexico
New Mexico State Land Office
Commercial Division
Box 1148
Santa Fe, NM 87504-1148

V. FACILITY DESCRIPTION

Construction of the facility and installation one 1100 horsepower (HP) Superior 8 GTL natural gas fired reciprocating compressor engine (site rated at 1059 HP) and ancillary equipment is anticipated to be completed in September, 1998. The unit will be skid-mounted and self contained. This facility is classified as a field compressor station; consequently, the facility will be unmanned and there will be no formal office or other support facilities not essential to field compression at the site.

VI. SOURCE, QUANTITY, AND QUALITY OF EFFLUENTS AND WASTE SOLIDS

The source, quantity, and quality of effluent and waste solids generated at the compressor station are summarized in Table 1. Material Safety Data Sheets for oil used in the equipment were previously provided to New Mexico Oil Conservation Division (NMOCD) by WFS. For reference,

representative samples of washdown wastewater and used motor oil have previously been collected from representative WFS compressor stations and analyzed for the parameters listed below.

<u>Sample</u>	<u>Parameters</u>
Washdown Wastewater	pH, TDS, TOX, TPH, BETX, As, Ba, Cd, Cr, Pb, Hg, Se, Ag.

Used Motor Oil	As, Cd, Cr, Pb, TOX, Flash Point
----------------	----------------------------------

The results of previous tests conducted on similar waste streams showed that the washdown water did not exhibit any of the hazardous characteristics and used motor oil was suitable for recycling (see Appendix A). Additional Chemicals listed in WQCC 1101.TT and 3103 are not expected to be present in any process fluids or in the gas transported at this compressor station.

Used oil filters have been collected from representative WFS compressor stations and analyzed for TCLP Metals. The results of the analysis found that the filters did not exceed TCLP concentrations for metals. The analyses were submitted to the San Juan County Regional Landfill along with the Waste Acceptance Profiles. These profiles are updated every two years or as required by the landfill.

TABLE 1
SOURCE, QUANTITY, AND QUALITY OF EFFLUENT AND WASTE SOLIDS
NORTH CRANDELL COMPRESSOR STATION

PROCESS FLUID/WASTE	SOURCE	QUANTITY (estimate)	QUALITY
Used Oil	Compressor	400 gal/yr/engine	Used motor oil w/no additives
Natural Gas Condensate	Liquid Receiver and Inlet Separator	1000 bbl/yr	No additives
Wash-down Water	Compressor Skid	500 gal/yr/engine	Soap and tap water w/traces of used oil
Spill Residue (i.e., gravel, soil)	Incidental spills	Incident dependent	Incident dependent
Used Absorbents	Incidental spill/leak equipment wipe-down	Incident dependent	No additives
Oil Filters	Compressor	48/yr/engine	No additives

VII. TRANSFER, STORAGE, AND DISPOSAL OF PROCESS FLUIDS, EFFLUENTS AND WASTE SOLIDS

Table 2 describes the transfer, storage and disposal of process fluids, effluents, and waste solids expected to be generated at the site. The table also includes information regarding the type of container in which the waste stream will be stored, container capacity, and containment/spill prevention provisions.

Exempt and non-exempt wastes will be managed separately. Only exempt wastes will be disposed down Class II injection wells. Non-exempt wastes will be characterized for hazardous constituents.

TABLE 2
TRANSFER, STORAGE, AND DISPOSAL OF PROCESS FLUIDS, EFFLUENTS, AND WASTE SOLIDS
NORTH CRANDELL COMPRESSOR STATION

PROCESS FLUID/WASTE	SOURCE	STORAGE	CONTAINER CAPACITY (approximate)	CONTAINMENT/ SPILL PREVENTION	RCRA STATUS	DESCRIPTION OF FINAL DISPOSITION
Natural Gas Condensate	Liquid Receiver and Inlet Separator	Above Ground Storage Tank	210 bbl	Berm	Exempt	Saleable liquids may be sold to refinery or liquid may be disposed at NMOCDD- approved facility.
Waste Water	Inlet Separator and Liquid Receiver	Double-bottom tank	70 bbl	Berm	Exempt	Water left to evaporate on site. If evaporation is not sufficient, water may be transported to NMOCDD-approved facility.
Wash-down Water	Compressor skid	Below-ground tank	750 gallons	Double-walled, fiberglass tank	Non-exempt	Contractor may pump washwater back into truck after washing; water may be transported to NMOCDD-approved facility; or evaporation at WFS facility may be considered in future.
Ambitrol	For use in compressor	Day tank adjacent to engine	500 gallons	Berm	N/A	N/A
Compressor Oil	For use in compressor	Day tank adjacent to each engine	500 gallons	Berm	N/A	N/A
Used Oil	Compressor	Day tank adjacent to each engine	500 gallons	Berm	Non-exempt	Transported to EPA-registered used oil marketer for recycling.
Used Oil Filters	Compressor	Drum or other container	up to 55 gallons	Transported to WFS facility in drum or other container	Non-exempt	Filters will be taken to WFS consolidation point, drained, and ultimately transported for disposal at a Regional Landfill. A Waste Acceptance Profile will be filed with the landfill. Recycling options may be considered whenever available.
Used Absorbents	Incidental spills or leaks	Drum or other container	up to 55 gallons	Transported to WFS facility in drum or other container	Non-exempt	Absorbents will be taken to WFS consolidation point, drained/wrung, and ultimately transported for disposal at a Regional Landfill. A Waste Acceptance Profile will be filed at the landfill. Recycling options may be considered whenever available.
Spill Residue (i.e., soil, gravel)	Incidental spills	N/A	N/A	In situ treatment, land-farm, or alternate method	Incident dependent	Per Section VI, Remediation, in 8/13/93 NMOCDD Guidelines for Remediation of Leaks, Spills, and Releases.

VIII. INSPECTION, MAINTENANCE AND REPORTING

WFS's Kutz Plant personnel will operate the and maintain the compression unit at the facility. The facility will be remotely monitored for equipment malfunctions through Gas Dispatch and the Kutz Plant. The facility will be visited several times per week at a minimum, and an operator will be on call 24 hours per day, 7 days per week, 52 weeks per year.

The above ground and below-ground tanks will be gauged regularly, and monitored for leak detection. The below-ground tank will be constructed of fiberglass and will be equipped with four-inch inspection covers to inspect the annular space. The annular space of the below-ground tank will be inspected monthly. All inspections will be recorded on the facilities operating record.

In the event of a release of a reportable quantity, the operator reports the release to WFS Gas Control who immediately notifies the WFS Environmental Affairs Department. WFS Environmental Affairs then reports the release to the appropriate agencies.

IX. SPILL/LEAK PREVENTION AND REPORTING (CONTINGENCY PLANS)

Spill containment berms around above ground storage tanks will be designed to contain 1 1/3 times the volume of the tank. The below ground tank will be double-lined and constructed of fiberglass (see Figure 4).

Prior to facility start-up, all pressure vessels on site will be tested in accordance with the requirement of the ASME Boiler and Pressure Vessel Code. All interconnecting gas piping on site will be tested in accordance with the requirements of the ASME Code for Pressure Piping, B31.8 Gas Transmission and Distribution Piping Systems.

WFS corporate policy and procedure for the controlling and reporting of Discharges or Spills of Oil or Hazardous Substances is provided in Appendix B. Significant spills and leaks are reported to the NMOCD pursuant to NMOCD Rule 116 and WQCC 1-203 using the NMOCD form (see Appendix C).

X. SITE CHARACTERISTICS

The North Crandell Compressor Station is located approximately 2 miles northeast of Aztec, New Mexico. The natural ground surface topography slopes downward toward the northeast. The maximum relief over the site is approximately 25 feet.

The site is located approximately one mile up Calloway Canyon from Highway 550, just northeast of Aztec, at an elevation of approximately 5970 feet above mean sea level. Intermittent flow from the site will likely follow natural drainage northeast of the site and towards Calloway Canyon. The Animas River is approximately 2 miles to the west of the site. The Animas Ditch, along with other unnamed ditches, runs along Highway 550 to the west. The Animas River, at approximately 5600 feet in elevation, is the nearest down gradient perennial source of surface water to the site.

A review of the available hydrologic data^{1,2} for this area revealed that there are several water wells within a radius of 0.5-1.5 miles from the location of the North Crandell Compressor Station (see Appendix D). The nearest water wells were found approximately 0.5 miles from the site in the SW/4 Township 30 North, Range 11 West, Section 2. The limited data available for these wells indicated

that the wells were drilled to a depth of 60 feet. One well was perforated between 27 and 30 feet below the ground surface, in an un-designated formation. Both wells are listed for domestic use. The majority of the remaining wells are drilled to depths ranging between 33 and 70 feet deep, and are also used for domestic purposes. Depth to water, water bearing unit, and specific conductance were available for only 5 wells. Depth to water ranged from 7 to 20 feet in the Quaternary alluvium, with specific conductance ranging from 610 and 1380 umhos. In the Tertiary Nacimiento Formation, depth to water ranged from 8 to 77 feet, with specific conductance ranging between 1575 and 2240 umhos.

The 100-year 24-hour precipitation event for this area is 2.8 inches. This small amount of rainfall for the area should pose no flood hazards. Vegetation in the area consists predominantly of sagebrush and native grasses

Flood Protection: Surface water runoff from the area surrounding the site will be diverted around the facility into the natural drainage path.

References

¹Stone, W.J., Lyford, F.P., Frenzel, P.F., Mizell, N.H., Padgett, E.T., 1983, Hydrology and Water Resources of San Juan Basin, New Mexico Bureau of Mines and Mineral Resources, Hydrologic Report 6.

²Records of Water Wells in San Juan County, 1978-1983.

XI FACILITY CLOSURE PLAN

All reasonable and necessary measures will be taken to prevent the exceedence of WCQQ Section 3103 quality standards should WFS choose to permanently close the facility. WFS will submit a detailed closure plan to the NMOCD prior to closure.

Generally, closure measures will include removal or closure in place of underground piping and other equipment. All wastes will be removed from the site and properly disposed in accordance with the rules and regulations in place at the time of closure. When all fluids, contaminants, and equipment have been removed from the site, the site will be graded as close to the original contour as possible.

Should contaminated soil be discovered, any necessary reporting under NMOCD Rule 116 and WQCC Section 1203 will be made and clean-up activities will commence. Post-closure maintenance and monitoring plans would not be necessary unless contamination is encountered.

$$\begin{array}{l}
 610 \times .55 = 335.5 \\
 610 \times .75 = 457.5 \\
 1380 \times .55 = 759 \\
 1380 \times .75 = 1035
 \end{array}
 \begin{array}{l}
 > \frac{793}{2} = 396.5 \text{ mg/l} \\
 > \frac{1794}{2} = 897 \text{ mg/l}
 \end{array}
 \begin{array}{l}
 \text{Aug.} \\
 \\
 \\
 \end{array}$$

FIGURE 1
SITE LOCATION MAP

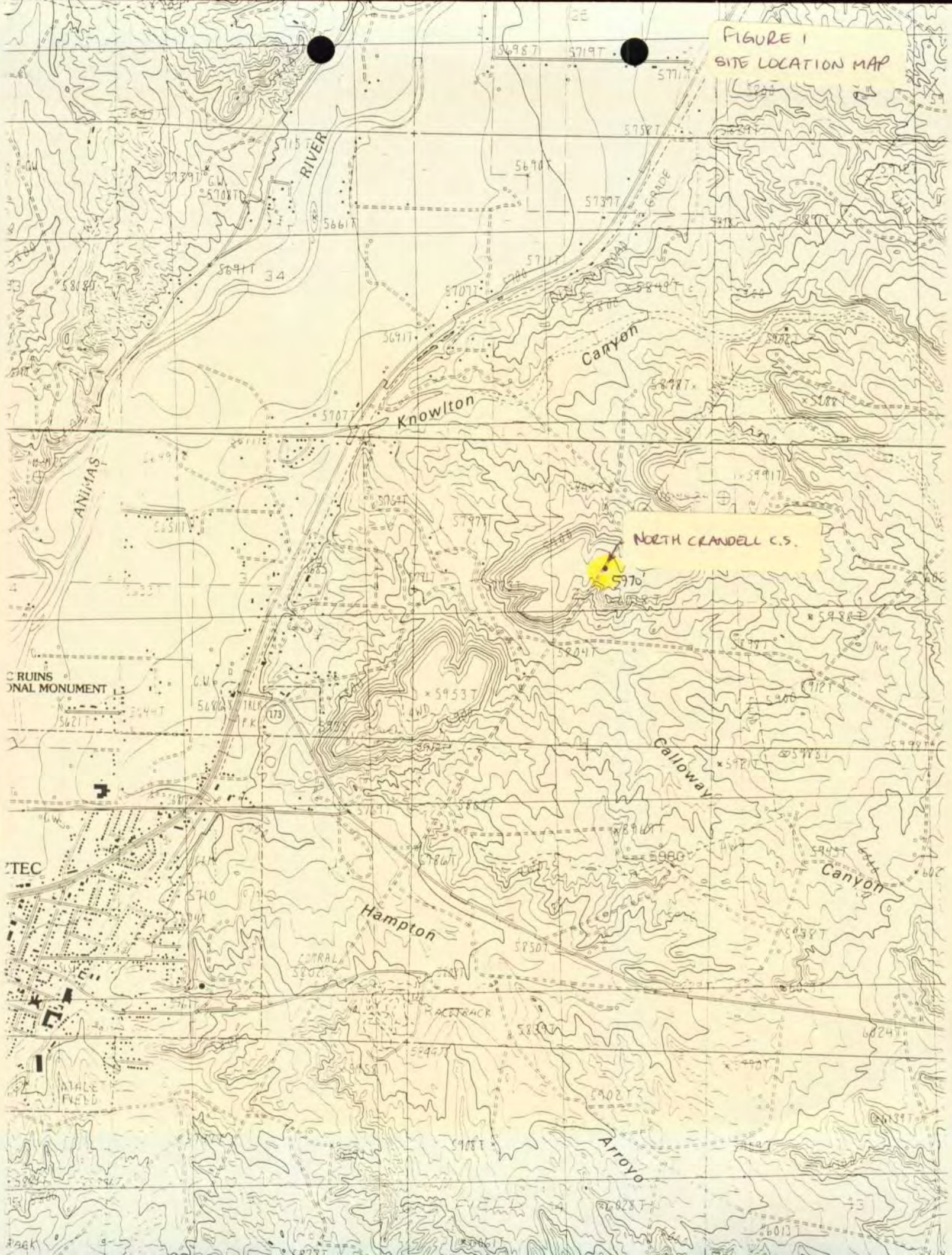
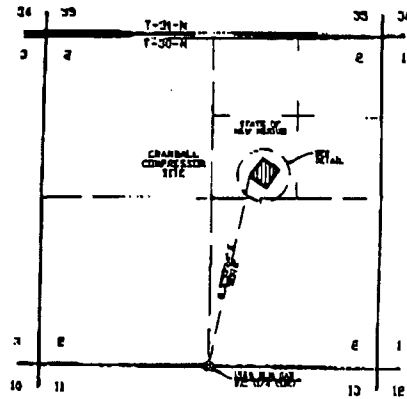


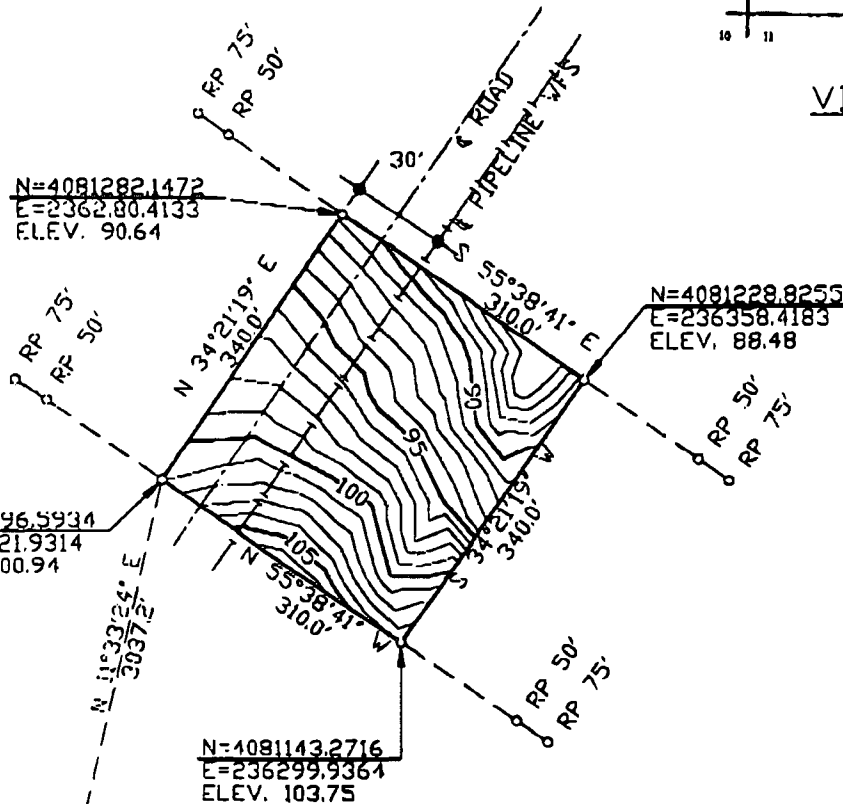
FIGURE 2

NOTE: BEARINGS ARE BASED ON A SOLAR OBSERVATION.
AS MEASURED BETWEEN THE SW COR. AND THE NW COR. OF SITE
SECTION 2, T-30-N, R-11-W, NMPH
BEARS N 34°21'19" E



VICINITY MAP
SCALE: 1"=3000'

CRANDALL
COMPRESSOR
SITE



DETAIL
SCALE: 1"=200'

NOTES

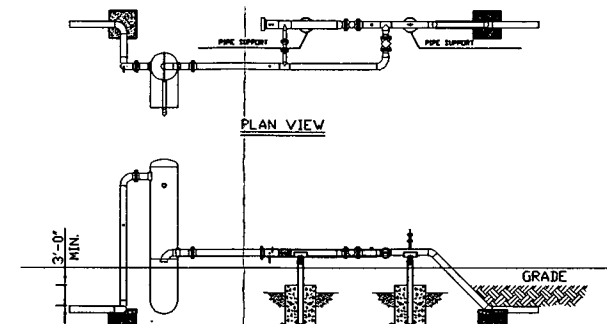
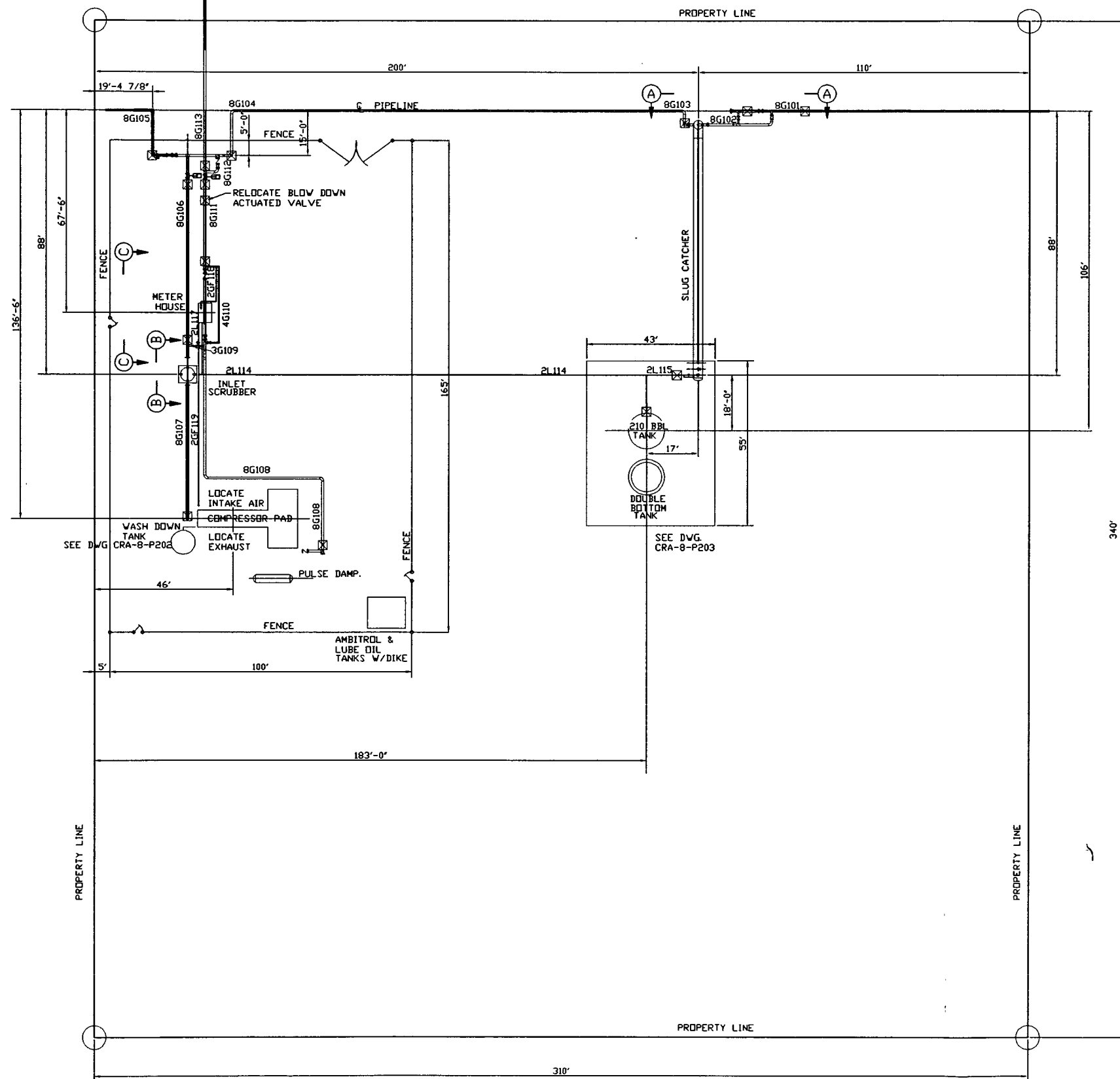
1. TOTAL AREA = 103,400.0 SQ. FT. OR 2.12 ACRES
2. ALL COORDINATES AS SHOWN ARE DERIVED FROM U.S.G.S. QUAD MAP. UTM COORDINATES, ZONE 13, IN METERS.
3. O DENOTES SET 1/2" REBAR W/CAP STAMPED L.S. #6707
4. TBM IS NAIL ON 50' RP @ SW CORNER OF COMP SITE

WILLIAMS GAS PROCESSING - BLANCO 
ONE OF THE WILLIAMS COMPANIES

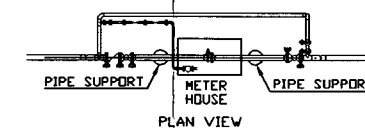
TORRE ALTA GATHERING SYSTEM
CRANDALL COMPRESSOR SITE
SEC. 2, T-30-N, R-11-W, NMPH
SAN JUAN COUNTY, NEW MEXICO

NO	DATE	BY	REVISION	APP
1	8/18/97	JDB	ISSUED FOR REVIEW	

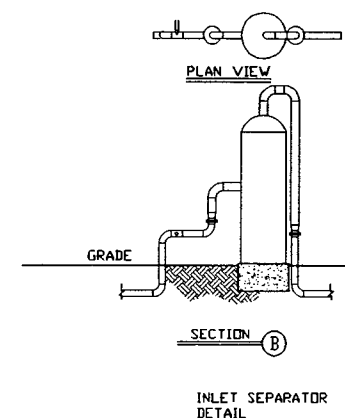
DRAWN BY: JDB	DATE: 8/18/97	CHKD BY: FAD	APPR:
SCALE: AS NOTED	W.D. NO:	DWG NO: 7999-X-13	



RECEIVER AND SLUG CATCHER DETAIL



METER RUN DETAIL



INLET SEPARATOR DETAIL

NOTES:

1. ALL UNDERGROUND PIPING INSTALLED SHALL BE HAND CLEANED, PRIMED AND TAPED WITH POLYKEN PRODUCT PER THE SPECIFICATION IN THE CONTRACT DOCUMENTS.
2. ALL DIMENSIONS, ELEVATIONS AND DEPTHS TO BE FIELD VERIFIED.
3. ALL UNDERGROUND PIPING TO HAVE A MINIMUM OF 36" COVER
4. ALL PIPE COATING TO BE EXTENDED TO 6" ABOVE GRADE.
5. SLEEPERS SHALL BE INSTALLED UNDER EACH LINE UNDER RISERS.
6. ALL EXPOSED PIPING AND STEEL STRUCTURES SHALL BE PRIMED AND TWO COAT PAINTED PER THE CONTRACT SPECIFICATIONS.
7. ALL 3" AND LARGER PIPE SHALL BE 100% X-RAYED.
8. CONTRACTOR'S WORK SHALL COMPLY WITH DOT 192, ASME B31.8 AND API 1104
9. THE COMPRESSOR PAD CHAIN LINK FENCE WILL BE INSTALLED BY OTHERS. THE CONTRACTOR WILL PROVIDE MATERIALS FOR AND INSTALL THE HOG WIRE FENCE SURROUNDING THE CONDENSATE TANK SYSTEM.
10. FIELD ROUTE 2" FUEL GAS PIPING INSIDE METER BLD'G. AND COMPRESSOR SKID.
11. RELIEF VALVE PIPING TO EXTEND ABOVE COOLER WITH ADEQUATE BRACING.

☒ DENOTES SLEEPER LOCATIONS

DESIGN DATA	HYDROTEST REQUIREMENTS	MINIMUM X-RAY REQUIREMENTS
CLASS: 1 FACTOR: 0.5 MAOP: 720 PSIG	1110 PSIG MIN. - 1210 PSIG MAX. 4 HR. DURATION	100% - 3" AND ABOVE

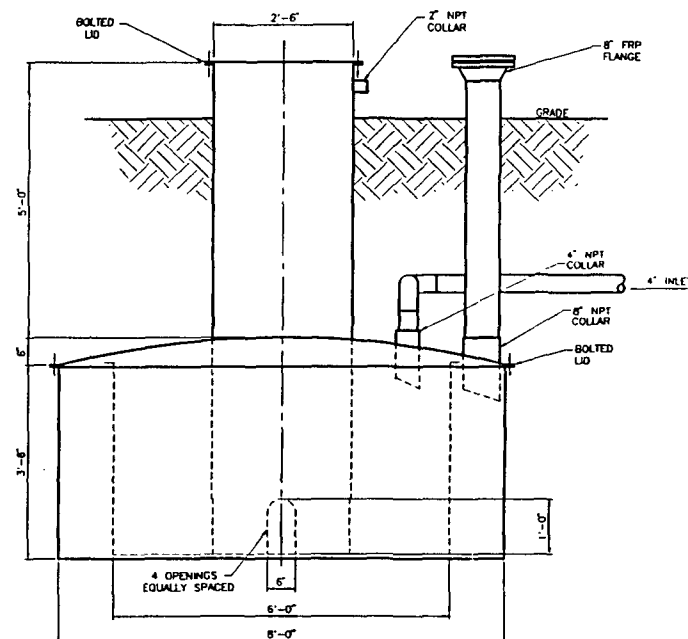
WARNING: ABOVE REQUIREMENTS BASED ON NEW CONSTRUCTION, GRADE B MATERIAL. MINIMUM PIPE WALL THICKNESS STATED IN GATHERING FACILITY DESIGN STATEMENT, AND WFS QVI/CVI OBSERVING ACTUAL WELDING ANY VARIANCE MAY ALTER ABOVE REQUIREMENTS.

DRAFTING	BY	DATE	STATE: NEW MEXICO	WILLIAMS FIELD SERVICES ONE OF THE WILLIAMS COMPANIES
DRAWN BY	RJB	6/3/98	COUNTY: SAN JUAN	
CHECKED BY				
APPROVED BY				
ENGINEER	BY	DATE	NORTH CRANDELL COMPRESSOR STATION TORRE ALTA AREA YARD PIPING PLAN	
DESIGNED BY			SCALE: 1" = 100'	DWG NO. CRA-1-P1
PROJ. APPROVED			W.D. NO.	

DRAWING NO.	TITLE	DRAWING NO.	TITLE	DRAWING NO.	TITLE	DRAWING NO.	TITLE	NO.	DATE	BY	DESCRIPTION	W.D.N.	CHK.	APP.	NO.	DATE	BY	DESCRIPTION	W.D.N.	CHK.	APP.
REFERENCE DRAWINGS																					
REVISIONS																					

Diagram illustrating the layout for a wellhead assembly, showing concentric circles representing different collar sizes:

- 2" NPT COLLAR
- 8" NPT COLLAR
- 4" NPT COLLAR



APPENDIX A
WASTE ANALYSIS

Enseco Incorporated

CEDAR HILL C.D.P.
WASTE OIL +
WASTEWATER



ANALYTICAL RESULTS

FOR

NORTHWEST PIPELINE CORPORATION

ENSECO-RMAL NO. 024601

SEPTEMBER 21, 1992

ANALYTICAL RESULTS

FOR

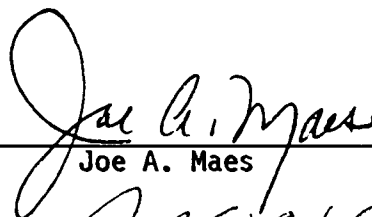
NORTHWEST PIPELINE CORPORATION

ENSECO-RMAL NO. 024601

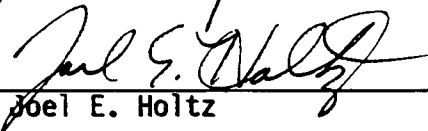
SEPTEMBER 21, 1992



Reviewed by:



Joe A. Maes



Joel E. Holtz



AMERICAN
WEST
ANALYTICAL
LABORATORIES

ORGANIC ANALYSIS REPORT

Client: Williams Field Services

Date Sampled: July 19, 1995

Date Received: July 20, 1995

Contact: Mark Harvey

Date Analyzed: July 26, 1995

Analysis Requested:

Volatile Aromatics

Total Purgeable Hydrocarbons

Method Ref. Number:

SW-846 #8260

(Purge & Trap GC/MS)

Field Sample ID:

SAN JUAN AREA

CEDAR HILL #1

Lab Sample ID:

L23218-8

463 West 3600 South
Salt Lake City, Utah
84115

Analytical Results

BTX/TPH-P

Units = mg/L (ppm)

Compound:

Detection
Limit:

Amount
Detected:

Benzene

0.020

0.036

(801) 263-8686 Toluene

0.020

0.046

Fax (801) 263-8687

Ethylbenzene

0.020

0.14

Total Xylene

0.020

0.95


Total Purgeable Hydrocarbons

0.20

19.

< Value = None detected above the specified detection limit, or a value that reflects a reasonable limit due to interferences.

Released By:


Laboratory Supervisor

Report Date: July 31, 1995

1 of 1



AMERICAN
WEST
ANALYTICAL
LABORATORIES

Client: Williams Field Service
Date Sampled: July 19, 1995
Lab Sample ID.: 23218-08
Field Sample ID: San Juan Area/Cedar Hill #1

Contact: Mark Harvey
Date Received: July 20, 1995
Received By: Laurie Hastings
Set Description: One Water and
Seven Soil Samples

INORGANIC ANALYSIS REPORT

Analytical Results

	TOTAL METALS	Method	Detection	Amount
		Used:	Limit:	Detected:
463 West 3600 South Salt Lake City, Utah 84115 (801) 263-8686 Fax (801) 263-8687	Arsenic	7060	0.005	<0.005
	Barium	6010	0.002	2.8
	Cadmium	6010	0.004	0.013
	Chromium	6010	0.01	0.03
	Lead	6010	0.05	0.13
	Mercury	7471	0.001	<0.001
	Selenium	7740	0.005	<0.005
	Silver	6010	0.01	<0.01
OTHER CHEMISTRIES				
	pH	150.1	0.1	6.8
	TDS	160.1	1.0	3,600.
	TOX	9020	0.5	1.6

Released by:

Laboratory Supervisor

Report Date 8/2/95

1 of 1

Introduction

This report presents the analytical results as well as supporting information to aid in the evaluation and interpretation of the data and is arranged in the following order:

- o Sample Description Information
- o Analytical Test Requests
- o Analytical Results
- o Quality Control Report

All analyses at Enseco are performed so that the maximum concentration of sample consistent with the method is analyzed. Dilutions are at times required to avoid saturation of the detector, to achieve linearity for a specific target compound, or to reduce matrix interferences. In this event, reporting limits are adjusted proportionately. Surrogate compounds may not be measurable in samples which have been diluted.

Sample 024601-0001 was diluted for Method 8020 due to concentrations of target compounds present beyond linear range; the reporting limits have been increased accordingly.

Sample 024601-0002 was diluted for Method 9020 due to matrix interferences; the reporting limits have been increased accordingly.

Sample Description Information

The Sample Description Information lists all of the samples received in this project together with the internal laboratory identification number assigned for each sample. Each project received at Enseco-RMAL is assigned a unique six digit number. Samples within the project are numbered sequentially. The laboratory identification number is a combination of the six digit project code and the sample sequence number.

Also given in the Sample Description Information is the Sample Type (matrix), Date of Sampling (if known) and Date of Receipt at the laboratory.

Analytical Test Requests

The Analytical Test Requests lists the analyses that were performed on each sample. The Custom Test column indicates where tests have been modified to conform to the specific requirements of this project.

SAMPLE DESCRIPTION INFORMATION
for
Northwest Pipeline Corporation

Lab ID	Client ID	Matrix	Sampled Date	Time	Received Date
024601-0001-SA	CEDAR HILL CDP WASTE WATER TAN	AQUEOUS	18 AUG 92	12:40	19 AUG 92
024601-0002-SA	WASTE OIL TANK CEDAR HILL	AQUEOUS	18 AUG 92	11:30	19 AUG 92
024601-0003-TB	TRIP BLANK	AQUEOUS			19 AUG 92

ANALYTICAL TEST REQUESTS
for
Northwest Pipeline Corporation

Lab ID: 024601	Group Code	Analysis Description	Custom Test?
0001	A	pH	N
		Total Dissolved Solids (TDS)	N
		ICP Metals (Total)	Y
		Prep - Total Metals, ICP	N
		Total Organic Halogen (TOX)	N
		Benzene, Toluene, Ethyl Benzene and Xylenes (BTEX)	N
		Arsenic, Furnace AA (Total)	N
		Prep - Total Metals, Furnace AA	N
		Lead, Furnace AA (Total)	N
		Mercury, Cold Vapor AA (Total)	N
		Prep - Mercury, Cold Vapor AA (Total)	N
0002	B	Arsenic, Furnace AA	N
		Prep - Total Metals, Furnace AA	N
		ICP Suite	Y
		Prep - Total Metals, ICP	N
		Lead, Furnace AA	N
		Total Organic Halogen (TOX)	N
		Ignitability, Closed Cup	N
0003	C	Benzene, Toluene, Ethyl Benzene and Xylenes (BTEX)	N

Analytical Results

The analytical results for this project are presented in the following data tables. Each data table includes sample identification information, and when available and appropriate, dates sampled, received, authorized, prepared and analyzed. The authorization data is the date when the project was defined by the client such that laboratory work could begin.

Data sheets contain a listing of the parameters measured in each test, the analytical results and the Enseco reporting limit. Reporting limits are adjusted to reflect dilution of the sample, when appropriate. Solid and waste samples are reported on an "as received" basis, i.e. no correction is made for moisture content.

The results from the Standard Enseco QA/QC Program, which generates data which are independent of matrix effects, are provided subsequently.

Benzene, Toluene, Ethyl Benzene and Xylenes (BTEX)**Method 8020****Client Name:** Northwest Pipeline Corporation**Client ID:** CEDAR HILL CDP WASTE WATER TANK**Lab ID:** 024601-0001-SA**Matrix:** AQUEOUS**Authorized:** 19 AUG 92**Sampled:** 18 AUG 92**Prepared:** NA**Received:** 19 AUG 92**Analyzed:** 22 AUG 92

Parameter	Result	Units	Reporting Limit
Benzene	19	ug/L	1.2
Toluene	63	ug/L	1.2
Ethylbenzene	12	ug/L	1.2
Xylenes (total)	240	ug/L	1.2
Surrogate	Recovery		
a,a,a-Trifluorotoluene	112	%	

ND = Not detected

NA = Not applicable

Reported By: Steve Shurgot**Approved By:** Stan Dunlavy

Benzene, Toluene, Ethyl Benzene and Xylenes (BTEX)



Method 8020

Client Name: Northwest Pipeline Corporation

Client ID: TRIP BLANK

Lab ID: 024601-0003-TB

Matrix: AQUEOUS

Authorized: 19 AUG 92

Sampled: Unknown

Prepared: NA

Received: 19 AUG 92

Analyzed: 24 AUG 92

Parameter	Result	Units	Reporting Limit
Benzene	ND	ug/L	0.50
Toluene	ND	ug/L	0.50
Ethylbenzene	ND	ug/L	0.50
Xylenes (total)	ND	ug/L	0.50
Surrogate	Recovery		
a,a,a-Trifluorotoluene	106	%	

ND = Not detected
NA = Not applicable

Reported By: Steve Shurgot

Approved By: Stan Dunlavy

Metals

Total Metals

Client Name: Northwest Pipeline Corporation
 Client ID: CEDAR HILL CDP WASTE WATER TANK
 Lab ID: 024601-0001-SA
 Matrix: AQUEOUS
 Authorized: 19 AUG 92

Sampled: 18 AUG 92
 Prepared: See Below

Received: 19 AUG 92
 Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Arsenic	ND	mg/L	0.0050	7060	10 SEP 92	12 SEP 92
Barium	0.11	mg/L	0.010	6010	10 SEP 92	15 SEP 92
Cadmium	ND	mg/L	0.0050	6010	10 SEP 92	15 SEP 92 B
Chromium	0.15	mg/L	0.010	6010	10 SEP 92	15 SEP 92
Lead	0.020	mg/L	0.010	7421	10 SEP 92	11 SEP 92
Mercury	ND	mg/L	0.00020	7470	13 SEP 92	13 SEP 92

Note B : Compound is also detected in the blank.

ND = Not detected
 NA = Not applicable

Reported By: Jeff Malecha

Approved By: Sandra Jones

Metals**Total Metals****Client Name:** Northwest Pipeline Corporation**Client ID:** WASTE OIL TANK CEDAR HILL**Lab ID:** 024601-0002-SA**Matrix:** WASTE**Authorized:** 19 AUG 92**Sampled:** 18 AUG 92**Prepared:** See Below**Received:** 19 AUG 92**Analyzed:** See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Arsenic	ND	mg/kg	1.0	7060	14 SEP 92	16 SEP 92
Cadmium	ND	mg/kg	0.50	6010	14 SEP 92	15 SEP 92
Chromium	1.0	mg/kg	1.0	6010	14 SEP 92	15 SEP 92
Lead	2.8	mg/kg	2.2	7421	14 SEP 92	14 SEP 92

ND = Not detected

NA = Not applicable

Reported By: Bob Reilly**Approved By:** Sandra Jones

General Inorganics



Client Name: Northwest Pipeline Corporation

Client ID: CEDAR HILL CDP WASTE WATER TANK

Lab ID: 024601-0001-SA

Matrix: AQUEOUS

Authorized: 19 AUG 92

Sampled: 18 AUG 92

Prepared: See Below

Received: 19 AUG 92

Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
pH	4.9	units	--	9040	NA	19 AUG 92
Total Organic Halogen as Cl	71.4	ug/L	30.0	9020	NA	10 SEP 92
Total Dissolved Solids	498	mg/L	10.0	160.1	NA	25 AUG 92

ND = Not detected

NA = Not applicable

Reported By: Pam Rosas

Approved By: Steve Shurgot

General Inorganics



Client Name: Northwest Pipeline Corporation

Client ID: WASTE OIL TANK CEDAR HILL

Lab ID: 024601-0002-SA

Matrix: WASTE

Authorized: 19 AUG 92

Sampled: 18 AUG 92

Prepared: See Below

Received: 19 AUG 92

Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Ignitability	>160	deg. F	--	1010	NA	03 SEP 92 o
Total Organic Halogen as Cl	ND	mg/kg	3.0	9020	NA	15 SEP 92

Note o : This test is unreliable for any sample other than a
non-aqueous liquid.

ND = Not detected

NA = Not applicable

Reported By: Leslie Gergurich

Approved By: Steve Shurgot

Quality Control Report

The Enseco laboratories operate under a vigorous QA/QC program designed to ensure the generation of scientifically valid, legally defensible data by monitoring every aspect of laboratory operations. Routine QA/QC procedures include the use of approved methodologies, independent verification of analytical standards, use of Duplicate Control Samples to assess the precision and accuracy of the methodology on a routine basis, and a rigorous system of data review.

In addition, the Enseco laboratories maintain a comprehensive set of certifications from both state and federal governmental agencies which require frequent analyses of blind audit samples. Enseco-Rocky Mountain Analytical Laboratory is certified by the EPA under the EPA/CLP program for Organic analyses, under the USATHAMA (U.S. Army) program, by the Army Corps of Engineers, and the states of Colorado, New Jersey, Utah, and Florida, among others.

The standard laboratory QC package is designed to:

- 1) establish a strong, cost-effective QC program that ensures the generation of scientifically valid, legally defensible data
- 2) assess the laboratory's performance of the analytical method using control limits generated with a well-defined matrix
- 3) establish clear-cut guidelines for acceptability of analytical data so that QC decisions can be made immediately at the bench, and
- 4) provide a standard set of reportables which assures the client of the quality of his data.

The Enseco QC program is based upon monitoring the precision and accuracy of an analytical method by analyzing a set of Duplicate Control Samples (DCS) at frequent, well-defined intervals. Each DCS is a well-characterized matrix which is spiked with target compounds at 5-100 times the reporting limit, depending upon the methodology being monitored. The purpose of the DCS is not to duplicate the sample matrix, but rather to provide an interference-free, homogeneous matrix from which to gather data to establish control limits. These limits are used to determine whether data generated by the laboratory on any given day is in control.

Control limits for accuracy (percent recovery) are based on the average, historical percent recovery \pm 3 standard deviation units. Control limits for precision (relative percent difference) range from 0 (identical duplicate DCS results) to the average, historical relative percent difference + 3 standard deviation units. These control limits are fairly narrow based on the consistency of the matrix being monitored and are updated on a quarterly basis.

For each batch of samples analyzed, an additional control measure is taken in the form of a Single Control Sample (SCS). The SCS consists of a control matrix that is spiked with either representative target compounds or surrogate compounds appropriate to the method being used. An SCS is prepared for each sample lot for which the DCS pair are not analyzed.

Accuracy for DCS and SCS is measured by Percent Recovery.

$$\% \text{ Recovery} = \frac{\text{Measured Concentration}}{\text{Actual Concentration}} \times 100$$

Precision for DCS is measured by Relative Percent Difference (RPD).

$$\text{RPD} = \frac{|\text{Measured Concentration DCS1} - \text{Measured Concentration DCS2}|}{(\text{Measured Concentration DCS1} + \text{Measured Concentration DCS2})/2} \times 100$$

All samples analyzed concurrently by the same test are assigned the same QC lot number. Projects which contain numerous samples, analyzed over several days, may have multiple QC lot numbers associated with each test. The QC information which follows includes a listing of the QC lot numbers associated with each of the samples reported, DCS and SCS (where applicable) recoveries from the QC lots associated with the samples, and control limits for these lots. The QC data is reported by test code, in the order that the tests are reported in the analytical results section of this report.

QC LOT ASSIGNMENT REPORT
Organics by Chromatography

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK)
024601-0001-SA	AQUEOUS	602-A	18 AUG 92-1H	22 AUG 92-1H
024601-0003-TB	AQUEOUS	602-A	18 AUG 92-1H	24 AUG 92-1H

DUPLICATE CONTROL SAMPLE REPORT
Organics by Chromatography

Analyte	Spiked	Concentration		Measured	AVG	Accuracy		Precision	
		DCS1	DCS2			Average(%)	(RPD)	DCS	Limit
						Limits			
Category: 602-A									
Matrix: AQUEOUS									
QC Lot: 18 AUG 92-1H									
Concentration Units: ug/L									
Benzene	5.0	5.28	5.29	5.28	106	72-112	0.2	10	
Toluene	5.0	4.99	5.01	5.00	100	74-109	0.4	10	
Ethylbenzene	5.0	4.85	4.89	4.87	97	76-105	0.8	10	
Xylenes (total)	5.0	4.82	4.88	4.85	97	74-111	1.2	10	
1,3-Dichlorobenzene	5.0	4.83	4.94	4.88	98	72-121	2.3	15	

Calculations are performed before rounding to avoid round-off errors in calculated results.

SINGLE CONTROL SAMPLE REPORT
Organics by Chromatography

Analyte	Concentration		Accuracy(%)	
	Spiked	Measured	SCS	Limits

Category: 602-A

Matrix: AQUEOUS

QC Lot: 18 AUG 92-1H QC Run: 22 AUG 92-1H

Concentration Units: ug/L

a,a,a-Trifluorotoluene	30.0	31.2	104	90-113
------------------------	------	------	-----	--------

Category: 602-A

Matrix: AQUEOUS

QC Lot: 18 AUG 92-1H QC Run: 24 AUG 92-1H

Concentration Units: ug/L

a,a,a-Trifluorotoluene	30.0	30.9	103	90-113
------------------------	------	------	-----	--------

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT
Organics by Chromatography

Analyte	Result	Units	Reporting Limit
Test: 8020-BTEX-AP			
Matrix: AQUEOUS			
QC Lot: 18 AUG 92-1H QC Run: 22 AUG 92-1H			
Benzene	ND	ug/L	0.50
Toluene	ND	ug/L	0.50
Ethylbenzene	ND	ug/L	0.50
Xylenes (total)	ND	ug/L	0.50

Test: 8020-BTEX-AP			
Matrix: AQUEOUS			
QC Lot: 18 AUG 92-1H QC Run: 24 AUG 92-1H			
Benzene	ND	ug/L	0.50
Toluene	ND	ug/L	0.50
Ethylbenzene	ND	ug/L	0.50
Xylenes (total)	ND	ug/L	0.50

QC LOT ASSIGNMENT REPORT
Metals Analysis and Preparation

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK)
024601-0001-SA	AQUEOUS	ICP-AT	10 SEP 92-1A	10 SEP 92-1A
024601-0001-SA	AQUEOUS	AS-FAA-AT	10 SEP 92-1A	10 SEP 92-1A
024601-0001-SA	AQUEOUS	PB-FAA-AT	10 SEP 92-1A	10 SEP 92-1A
024601-0001-SA	AQUEOUS	HG-CVAA-AT	13 SEP 92-1A	13 SEP 92-1A
024601-0002-SA	SOIL	AS-FAA-S	11 SEP 92-1A	11 SEP 92-1A
024601-0002-SA	SOIL	ICP-S	14 SEP 92-1R	14 SEP 92-1R
024601-0002-SA	SOIL	PB-FAA-S	14 SEP 92-1R	14 SEP 92-1R

DUPLICATE CONTROL SAMPLE REPORT
Metals Analysis and Preparation

Analyte	Spiked	Concentration		Measured DCS2	AVG	Accuracy Average(%)		Precision (RPD)	
		DCS1				DCS	Limits	DCS	Limit
Category: ICP-AT									
Matrix: AQUEOUS									
QC Lot: 10 SEP 92-1A									
Concentration Units: mg/L									
Aluminum	2.0	2.03		2.04	2.03	102	75-125	0.2	20
Antimony	0.5	0.510		0.499	0.505	101	75-125	2.2	20
Arsenic	0.5	0.480		0.453	0.467	93	75-125	5.7	20
Barium	2.0	1.92		1.93	1.92	96	75-125	0.4	20
Beryllium	0.05	0.0500		0.0497	0.0498	100	75-125	0.6	20
Cadmium	0.05	0.0468		0.0442	0.0455	91	75-125	5.7	20
Calcium	100	103		102	103	103	75-125	1.0	20
Chromium	0.2	0.190		0.195	0.192	96	75-125	2.6	20
Cobalt	0.5	0.471		0.467	0.469	94	75-125	0.9	20
Copper	0.25	0.281		0.269	0.275	110	75-125	4.4	20
Iron	1.0	1.01		1.00	1.01	101	75-125	1.0	20
Lead	0.5	0.472		0.475	0.473	95	75-125	0.7	20
Magnesium	50	51.1		50.6	50.8	102	75-125	1.0	20
Manganese	0.5	0.489		0.477	0.483	97	75-125	2.5	20
Nickel	0.5	0.483		0.478	0.480	96	75-125	1.1	20
Potassium	50	52.5		51.9	52.2	104	75-125	1.2	20
Silver	0.05	0.0488		0.0477	0.0483	97	75-125	2.2	20
Sodium	100	110		109	109	109	75-125	1.6	20
Vanadium	0.5	0.495		0.497	0.496	99	75-125	0.4	20
Zinc	0.5	0.496		0.489	0.492	98	75-125	1.6	20

Category: AS-FAA-AT
 Matrix: AQUEOUS
 QC Lot: 10 SEP 92-1A
 Concentration Units: mg/L

Arsenic	0.03	0.0329	0.0348	0.0338	113	75-125	5.6	20
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Category: PB-FAA-AT
 Matrix: AQUEOUS
 QC Lot: 10 SEP 92-1A
 Concentration Units: mg/L

Lead	0.03	0.0349	0.0313	0.0331	110	75-125	11	20
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Calculations are performed before rounding to avoid round-off errors in calculated results.

DUPLICATE CONTROL SAMPLE REPORT
Metals Analysis and Preparation (cont.)

Analyte	Concentration				Accuracy		Precision	
	Spiked	DCS1	Measured DCS2	AVG	DCS	Average(%) Limits	DCS	(RPD) Limit
Category: HG-CVAA-AT Matrix: AQUEOUS QC Lot: 13 SEP 92-1A Concentration Units: mg/L								
Mercury	0.0010	0.000967	0.00100	0.000983	98	75-125	3.4	20
Category: AS-FAA-S Matrix: SOIL QC Lot: 11 SEP 92-1A Concentration Units: mg/kg								
Arsenic	145	102	104	103	71	59-141	1.0	20
Category: ICP-S Matrix: SOIL QC Lot: 14 SEP 92-1R Concentration Units: mg/kg								
Aluminum	10700	6840	7480	7160	67	47-153	8.8	20
Antimony	55.2	54.8	57.4	56.1	102	18-362	4.6	50
Arsenic	145	128	135	131	91	59-141	4.9	20
Barium	503	435	459	447	89	76-124	5.5	20
Beryllium	129	118	124	121	94	53-131	4.9	20
Cadmium	154	140	147	144	93	68-132	4.6	20
Calcium	7390	6600	6960	6780	92	79-121	5.4	20
Chromium	151	127	136	132	87	66-133	6.9	20
Cobalt	122	110	116	113	93	70-130	5.4	20
Copper	162	156	165	161	99	70-132	5.4	20
Iron	15400	12400	13400	12900	84	66-134	7.2	20
Lead	148	129	139	134	90	66-135	6.9	20
Magnesium	3740	3250	3480	3360	90	74-126	7.0	20
Manganese	423	376	397	387	91	74-125	5.5	20
Molybdenum	159	145	152	148	93	71-129	5.1	20
Nickel	166	154	162	158	95	67-133	5.1	20
Potassium	4050	3530	3770	3650	90	68-132	6.6	20
Silver	104	98.2	106	102	98	76-124	7.6	20
Sodium	747	717	766	741	99	57-130	6.6	20
Vanadium	154	135	142	138	90	73-127	5.2	20
Zinc	530	478	504	491	93	65-135	5.3	20

Calculations are performed before rounding to avoid round-off errors in calculated results.

DUPLICATE CONTROL SAMPLE REPORT
Metals Analysis and Preparation (cont.)

Analyte	Spiked	Concentration		Measured	AVG	Accuracy		Precision	
		DCS1	DCS2			DCS	Limits	DCS	Limit
Category: PB-FAA-S Matrix: SOIL QC Lot: 14 SEP 92-1R Concentration Units: mg/kg									
Lead	150	132	148	140	93	50-150	11	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT
Metals Analysis and Preparation

Analyte	Result	Units	Reporting Limit
Test: ICP-AT			
Matrix: AQUEOUS			
QC Lot: 10 SEP 92-1A QC Run: 10 SEP 92-1A			
Barium	ND	mg/L	0.010
Cadmium	0.0099	mg/L	0.0050
Chromium	ND	mg/L	0.010
Test: AS-FAA-AT			
Matrix: AQUEOUS			
QC Lot: 10 SEP 92-1A QC Run: 10 SEP 92-1A			
Arsenic	ND	mg/L	0.0050
Test: PB-FAA-AT			
Matrix: AQUEOUS			
QC Lot: 10 SEP 92-1A QC Run: 10 SEP 92-1A			
Lead	ND	mg/L	0.0050
Test: HG-CVAA-AT			
Matrix: AQUEOUS			
QC Lot: 13 SEP 92-1A QC Run: 13 SEP 92-1A			
Mercury	ND	mg/L	0.00020
Test: AS-FAA-W			
Matrix: WASTE			
QC Lot: 11 SEP 92-1A QC Run: 11 SEP 92-1A			
Arsenic	ND	mg/kg	0.50
Test: ICP-W			
Matrix: WASTE			
QC Lot: 14 SEP 92-1R QC Run: 14 SEP 92-1R			
Cadmium	ND	mg/kg	0.50
Chromium	ND	mg/kg	1.0

METHOD BLANK REPORT
Metals Analysis and Preparation (cont.)

Analyte	Result	Units	Reporting Limit
Test: PB-FAA-W			
Matrix: WASTE			
QC Lot: 14 SEP 92-1R	QC Run: 14 SEP 92-1R		
Lead	ND	mg/kg	0.50

QC LOT ASSIGNMENT REPORT
Wet Chemistry Analysis and Preparation

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK)
024601-0001-SA	AQUEOUS	PH-A	19 AUG 92-1G	-
024601-0001-SA	AQUEOUS	TDS-A	25 AUG 92-1A	25 AUG 92-1A
024601-0001-SA	AQUEOUS	TOX-A	10 SEP 92-1A	-
024601-0002-SA	SOIL	TOX-S	15 SEP 92-1A	-

DUPLICATE CONTROL SAMPLE REPORT
Wet Chemistry Analysis and Preparation

Analyte	Spiked	Concentration		Measured	AVG	Accuracy		Precision	
		DCS1	DCS2			DCS	Average(%) Limits	(RPD)	DCS Limit
Category: PH-A Matrix: AQUEOUS QC Lot: 19 AUG 92-1G Concentration Units: units									
pH	9.1	9.04	9.05	9.04	99	98-102	0.1	5	
Category: TDS-A Matrix: AQUEOUS QC Lot: 25 AUG 92-1A Concentration Units: mg/L									
Total Dissolved Solids	1170	1150	1130	1140	97	90-110	1.8	10	
Category: TOX-A Matrix: AQUEOUS QC Lot: 10 SEP 92-1A Concentration Units: ug Cl/L									
Total Organic Halogen as Cl	100	90.0	90.6	90.3	90	80-120	0.7	20	
Category: TOX-S Matrix: SOIL QC Lot: 15 SEP 92-1A Concentration Units: mg/kg									
Total Organic Halogen as Cl	1.0	0.955	1.05	1.00	100	75-125	9.5	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT
Wet Chemistry Analysis and Preparation

Analyte	Result	Units	Reporting Limit
Test: TDS-BAL-A			
Matrix: AQUEOUS			
QC Lot: 25 AUG 92-1A QC Run: 25 AUG 92-1A			
Total Dissolved Solids	ND	mg/L	10.0



Appendix



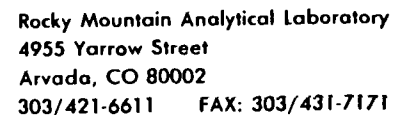
Rocky Mountain Analytical Laboratory
4955 Yarrow Street
Arvada, CO 80002
303/421-6611 FAX: 303/431-7171

CHAIN OF CUSTODY

ENSECO CLIENT		SAMPLE SAFE™ CONDITIONS	
PROJECT		PACKED BY	SEAL NUMBER
SAMPLING COMPANY		SEAL INTACT UPON RECEIPT BY SAMPLING COMPANY	CONDITION OF CONTENTS
SAMPLING SITE		SEALED FOR SHIPPING BY	INITIAL CONTENTS TEMP. °C
TEAM LEADER		SEAL NUMBER	SAMPLING STATUS <input type="checkbox"/> Done <input type="checkbox"/> Continuing Until
		SEAL INTACT UPON RECEIPT BY LAB <input type="checkbox"/> Yes <input type="checkbox"/> No	CONTENTS TEMPERATURE UPON RECEIPT BY LAB jm °C

DATE	TIME	SAMPLE ID/DESCRIPTION	SAMPLE TYPE	# CONTAINERS	ANALYSIS PARAMETERS	REMARKS
8-18-92	12:49	WASTE CEDAR HILL CDP WATER TANK	LIQUID AQUEOUS	1	PH / TDS	01
8-18-92	12:50	" "	LIQUID AQUEOUS	1	PH / TDS	02
8-18-92	12:45	" "	LIQUID METALS	4T	METALS	01 01
8-18-92	12:47	" "	LIQUID METALS	4T	METALS	02
8-18-92	12:40	" "	LIQUID	15	TOX -- SINGLE	01
8-18-92	12:40	" "	LIQUID	15	TOX -- SINGLE	02
8-18-92	11:30	WASTE OIL TANK CEDAR HILL	USED OIL			
8-18-92	11:45	WASTE OIL TANK CEDAR HILL	USED OIL			02
8-18-92	11:50	WASTE OIL TANK CEDAR HILL	USED OIL			
8-18-92	12:00	WASTE OIL TANK CEDAR HILL	USED OIL			

CUSTODY TRANSFERS PRIOR TO SHIPPING				SHIPPING DETAILS	
RELINQUISHED BY (SIGNED)	RECEIVED BY (SIGNED)	DATE	TIME	DELIVERED TO SHIPPER BY	
Vernon Rothberg	Frank Dillig	8/18/92	2:07	METHOD OF SHIPMENT	
				AIRBILL NUMBER	
				RECEIVED FOR LAB	SIGNED
				ENSECO PROJECT NUMBER	DATE/TIME
				24601	0845 8/19/92

**ENSECO CLIENT**

PROJECT

SAMPLING COMPANY

SAMPLING SITE

TEAM LEADER

SAMPLE SAFE™ CONDITIONS

PACKED BY	
-----------	--

SEAL NUMBER

SEAL INTACT UPON RECEIPT BY SAMPLING COMPANY

CONDITION OF CONTENTS

SEALED FOR SHIPPING BY

INITIAL CONTENTS TEMP.	
------------------------	--

°C

SEAL NUMBER	
-------------	--

SAMPLING STATUS	
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75	76
77	78
79	80
81	82
83	84
85	86
87	88
89	90
91	92
93	94
95	96
97	98
99	100

Done

☐ Continuing Until

SEAL INTACT UPON RECEIPT BY LAB.

CONTENTS TEMPERATURE UPON RECEIPT BY LAB.

☐ Yes☐ No

°C

CUSTODY TRANSFERS PRIOR TO SHIPPING

SHIPPING DETAILS

RELINQUISHED BY (SIGNED)

RECEIVED BY (SIGNED)

DATE _____

TIME

DELIVERED TO SHIPPER BY

METHOD OF SHIPMENT

AIRBILL NUMBER

RECEIVED FOR LAB

SIGNED

[illegible]

ENSECO PROJECT NUMBER

ENS-1133

White - CLIENT Pink - LAB

APPENDIX B

SPILL CONTROL PROCEDURES

OPERATIONS

Manual O & M Procedure	Department	
Section Safety/General	Tab 10	Document No. 21.10.020
Effective Date JUL 31 1997	Issue No. 2	Page No. 1 of 8

Subject of Title
DISCHARGES OR SPILLS OF OIL OR HAZARDOUS SUBSTANCES; Preventing, Controlling and Reporting of

A. PURPOSE AND SCOPE

- A.1 To establish the policy and procedure for preventing, controlling, and reporting of discharges or spills of oil or hazardous substances to the environment in accordance with Company practices and federal, state, and local requirements, including Title 40 of the Code of Federal Regulations - Part 112 (Oil Pollution Prevention).
- A.2 This document pertains to Company personnel and Company and non-company facilities. The spill prevention and control requirements in this Policy and Procedure are Federally mandated guidelines for oil pollution prevention. The Company policy is to also apply these standards, where appropriate, to facilities containing hazardous substances. This is a discretionary application of the standards; however, variations from the standards should be approved by the responsible Director.

B. CONTENTS

C. POLICY

- C.1 General
- C.2 Bulk Storage Tanks
- C.3 Facility Drainage
- C.4 Transfer Operations, Pumping, and In-Plant/Station Process
- C.5 Facility Tank Car and Tank Truck Loading/Unloading Rack

D. PROCEDURE

- D.1 Identifying, Containing and Initial Reporting of a discharge or Spill of a Hazardous or Toxic Substance
- D.2 Submitting Written Notification of a Discharge or Spill

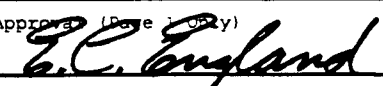

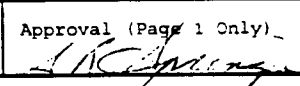
ATTACHMENT A: Discharge or Spill Containment Procedures and Materials

C. POLICY

C.1 GENERAL

- C.1.1 All Company facilities which could discharge or spill oil or hazardous substances which may affect natural resources or present an imminent and substantial danger to the public health or welfare including, but not limited to, fish, shellfish, wildlife, shorelines, and beaches are subject to the provisions of this document.

supersedes Policy and Procedure 12.10.020 dated June 16, 1993

Approval (Page 1 Only) 	Approval (Page 1 Only) 	Approval (Page 1 Only) 
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OPERATIONS

Manual O & M Procedure	Department	
Section Safety/General	Tab 10	Document No. 21.10.020
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Subject of Title
DISCHARGES OR SPILLS OF OIL OR HAZARDOUS SUBSTANCES; Preventing, Controlling and Reporting of

- C.1.2 Oil, for purpose of this document, means oil of any kind or in any form, including but not limited to petroleum hydrocarbon, fuel oil, Y grade, natural gas liquids, condensate, mixed products, sludge, oil refuse, and oil mixed with wastes other than dredged spoil (earth and rock). LPG (propane, butane, ethane) is not considered to be oil.
- C.1.3 Hazardous Substance, for purposes of this procedure, is defined as any chemical or material that has or should have a Material Safety Data Sheet (MSDS); however, hazardous substances are further defined by the following environmental statutes:
- Section 101(N) and Section 102 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)
 - Section 307(a) and Section 311(b) (2) (A) of the Clean Water Act
 - Section 3001 of the Solid Waste Act (excluding items suspended by Congress)
 - Section 112 of the Clean Air Act
 - Section 7 of the Toxic Substance Control Act
- C.1.4 The term hazardous substance does not include petroleum hydrocarbon, including crude oil or any fraction thereof, and the term does not include natural gas, natural gas liquids (including condensate), liquefied natural gas or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).
- C.1.5 Facilities which could discharge or spill oil or hazardous substances into a watercourse must comply with the applicable federal, state, or local laws and regulations. A discharge includes but is not limited to any spilling, leaking, pumping, pouring, emitting, emptying, or dumping. A watercourse is any perennial or intermittent river, stream, gully, wash, lake, or standing body of water capable of collecting or transporting an oil or hazardous substance.
- C.1.6 Facilities which are subject to the requirements stated in this policy are as follows:
- Non-Transportation Related Facilities
 - Storage or drip tanks and other aboveground containers (excluding pressurized or inline process vessels) having a capacity in excess of 660 gallons for each single container or an aggregate capacity of 1,321 gallons or more for multiple containers.
 - Underground storage facilities having a total capacity in excess of 42,000 gallons.

OPERATIONS

Manual O & M Procedure	Department	
Section Safety/General	Tab 10	Document No. 21.10.020
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Subject of Title
DISCHARGES OR SPILLS OF OIL OR HAZARDOUS SUBSTANCES; Preventing, Controlling and Reporting of

b. Transportation Related Facilities

- (1) All vehicles, pipeline facilities, loading/unloading facilities, and other mobile facilities which transport oil or hazardous substances.

C.1.7 Each Company location which has facilities subject to paragraph C.1.1 shall have a site specific Spill Prevention Control and Countermeasure Plan (SPCC Plan) which identifies all facilities subject to 40 CFR 112. The plan shall identify all hazardous substance storage vessels (as defined in a.(1) above) at the facility and the spill prevention measures in place to control discharges or spills. This plan shall also identify all regulatory agencies that must be notified in case of a spill.

C.1.8 The facility superintendent is responsible for spill prevention. His/her duties include, but are not limited to, the following:

- a. Instructing personnel in the operation and maintenance of equipment to prevent the discharge of oil.
- b. Conduct annual briefings for operating personnel at intervals frequent enough to assure adequate understanding of the Spill Plan at that facility.
- c. Briefings should highlight and describe known discharges or spills, and recently developed precautionary measures.

C.1.9 Each individual facility is checked annually by the superintendent or designee to determine the potential for discharges or spills of oil or hazardous substances in harmful quantities that violate water quality standards or which may cause a film, sheen, or discoloration on the surface of water. All facilities which have the potential for discharging or spilling harmful quantities of oil or hazardous substances into a watercourse are required to have the following preventive measures:

- a. Examination of all tanks, valves and fittings, at least annually, to determine any maintenance requirements.
- b. All tank batteries should, as far as practicable, have a secondary means of containment for the entire contents of the largest single tank plus sufficient freeboard in the containment facility to allow for precipitation.
- c. An annual monitoring and inspection program to prevent accidental spills or discharges into watercourses. This includes annual inspection for faulty systems and monitoring line valves and liquid pipelines for leaks or blowouts.

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Manual O & M Procedure	Department	
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Subject of Title

DISCHARGES OR SPILLS OF OIL OR HAZARDOUS SUBSTANCES; Preventing, Controlling and Reporting of

C.1.10 Any field drainage ditches, road ditches, traps, sumps, or skimmers should be inspected at regular scheduled intervals for accumulation of oil or other hazardous substances which may have escaped from small leaks. Any such accumulations should be removed.

C.2 BULK STORAGE TANKS

C.2.1 A tank should not be used for storage of oil or hazardous substances unless the material and construction of the tank is compatible with the oil or substance stored and conditions of storage such as pressure and temperature. Buried storage tanks must be protected from corrosion by coatings, cathodic protection, or other methods compatible with local soil conditions. Aboveground tanks should be subject to visual inspection for system integrity.

C.2.2 The facility superintendent should evaluate tank level monitoring requirements to prevent tank overflow.

C.2.3 Leaks which result in loss of oil or hazardous substances from tank seams, gaskets, rivets and bolts sufficiently large to cause accumulation of oil or hazardous substances in diked areas should be promptly corrected.

C.2.4 Mobile or portable oil or hazardous substances storage tanks should be positioned or located to prevent the contents from reaching a watercourse. The mobile facilities should be located so their support structure will not be undermined by periodic flooding or washout.

C.3 FACILITY DRAINAGE

C.3.1 Make provisions for drainage from diked storage areas where necessary in areas with high precipitation levels. Drainage from diked areas should be restrained by valves or other means to prevent a discharge or spill. Diked areas should be emptied by pumps or ejectors which are manually activated. Valves used for the drainage of diked areas should be of manual, open-and-closed design.

C.3.2 Rain water may be drained from diked areas providing drainage water does not contain oil or hazardous substances that may cause a harmful discharge. Drain valves must be closed following drainage of diked areas.

C.3.3 When possible, drainage systems from undiked areas should flow into ponds, lagoons, or catchment basins designed to retain oil or hazardous substances or return the substances to the facility. Any drainage system which is not designed to allow flow into ponds, lagoons, or catchment basins should be equipped with a diversion system that could, in the event of a discharge or spill, contain the oil or hazardous substances on the Site.

OPERATIONS

Manual O & M Procedure	Department	
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Subject of Title
DISCHARGES OR SPILLS OF OIL OR HAZARDOUS SUBSTANCES; Preventing, Controlling and Reporting of

- C.3.4 The principal means of containing discharges or spills is the use of dikes which are constructed wherever regulated quantities of oil or hazardous substances have the potential of reaching a watercourse. The construction of dikes must meet the following requirements:
- Capacity must be at least equivalent to the storage capacity of the largest tank of the battery plus sufficient freeboard to allow for precipitation, or displacement by foreign materials.
 - Small dikes for temporary containment are constructed at valves where potential leaking of oil or hazardous substances may occur.
 - Any dike three feet or higher should have a minimum cross section of two feet at the top.
- C.3.5 Other means of containment or spill control include, but are not limited to:
- Berms or retaining walls;
 - Curbing;
 - Culverting, gutters, or other drainage systems;
 - Weirs, booms, or other barriers;
 - Spill diversion ponds or retention ponds;
 - Sorbent materials
- C.4 TRANSFER OPERATIONS, PUMPING, AND IN-PLANT/STATION PROCESS
- C.4.1 Aboveground valves and pipelines should be examined regularly by operating personnel to determine whether there are any leaks from flange joints, expansion joints, valve glands and bodies, catch pans, pipeline supports, valve locks, and metal surfaces.
- C.5 FACILITY TANK CAR AND TANK TRUCK LOADING/UNLOADING RACK
- C.5.1 Rack area drainage which does not flow into a catchment basin or treatment facility designed to handle spills should have a quick drainage system for use in tank truck loading and unloading areas. The containment system should have a maximum capacity of any single compartment of a truck loaded or unloaded in the station.
- C.5.2 Aboveground piping that has potential for damage by vehicles entering the Site should be protected by logically placed warning signs or by concrete-filled pipe barriers.
- C.5.3 Loading and unloading areas should be provided with an interlocked warning light, grounding shutdown, physical barrier system, or warning signs to prevent vehicular departure before complete disconnect of flexible or fixed transfer lines. All drains and outlets of any truck should be closely examined for leakage prior to filling and departure. All drains and outlets which may allow leakage should be tightened, adjusted, or replaced to prevent liquid leakage while in transit.

OPERATIONS

Manual O & M Procedure	Department	
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DISCHARGES OR SPILLS OF OIL OR HAZARDOUS SUBSTANCES; Preventing, Controlling and Reporting of

NOTE: LPG loading facilities and remote field loading of condensate are exempt from the C.5 requirements of this document.

D. PROCEDURE

D.1 Identifying, Containing and Initial Reporting of a Discharge or Spill of Oil or Hazardous Substance

Any Employee

- D.1.1 Upon noticing a discharge or spill of an oil or hazardous substance in any quantity initiates immediate containment procedures and notifies facility superintendent.

NOTE: Refer to Attachment A for containment procedures.

Facility Superintendent

- D.1.2 Contacts Gas Control and responsible Director immediately by telephone and provides the following information:

- Name of company facility and/or location of facility and nature of discharge or spill
- Description and quantity of emission or substance discharged
- Description of the circumstances causing the discharge or spill
- Name, title, and telephone number of person initially reporting the discharge or spill and person reporting to Gas Control
- Action taken or being taken to mitigate and correct discharge or spill
- Water bodies or streams involved
- Time and duration of discharge or spill
- Outside involvement during discharge or spill (public government agencies, etc. See Emergency Operating Procedure Manuals)

Gas Control Personnel

- D.1.3 Advises Environmental Affairs departments immediately by telephone concerning the incident including any incidents reported by persons not employed with the Company.

NOTE: If Gas Control is contacted by a person not employed with the Company, the necessary information is obtained as indicated in D.1.2 and the Superintendent and Environmental Affairs are immediately contacted to begin containment and clean-up of the discharge or spill.

- D.1.4 If Environmental Affairs cannot be contacted, notifies Director over Environmental Affairs.

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Facility Superintendent

- D.1.5 Coordinates containment and clean-up of discharge or spill, keeping the responsible Director Informed.
- D.1.6 If the discharge or spill is too large for Company personnel to contain, contacts qualified local contractors for assistance. (See Emergency Operating Procedure Manuals tab #11, contractors with available equipment and services).
- D.1.7 Advises Environmental Affairs by telephone if emergency containment or clean-up assistance from a state agency or a response team from the U.S. Coast Guard is required.

Environmental Affairs

- D.1.8 Assesses reporting requirements to state and federal agencies (contacts Legal Department and Right-of-Way Department, if appropriate). (See Emergency Operating Procedure Manuals).
- D.1.9 Makes appropriate contacts with National Response Center and state and local agencies, when necessary.
- D.1.10 If spill is significant, dispatches Environmental Specialist to scene to oversee cleanup and reporting responsibilities.

D.2 SUBMITTING WRITTEN NOTIFICATION OF A DISCHARGE OR SPILL

Facility Superintendent

- D.2.1 Completes a written description of the incident as soon as possible after initial notification is given, which should include the following:
 - a. Time and date of discharge or spill
 - b. Facility name and location
 - c. Type of material spilled
 - d. Quantity of material spilled
 - e. Area affected
 - f. Cause of spill
 - g. Special circumstances
 - h. Corrective measures taken
 - i. Description of repairs made
 - j. Preventative measures taken to prevent recurrence.
- D.2.2 Forwards the completed written description to Environmental Affairs. Retains a copy for future reference.

NOTE: Environmental Affairs, in coordination with the Legal Department, if necessary, submits written reports to government agencies.

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ATTACHMENT A

DISCHARGE OR SPILL CONTAINMENT PROCEDURES AND MATERIALS

TYPE OF FACILITY WHERE THE DISCHARGE OR SPILL OCCURS	CONTAINMENT PROCEDURES	MATERIALS USED FOR CONTAINMENT
A. Oil Pipeline (as defined in C.1.4)	<ol style="list-style-type: none"> 1. Closes appropriate block valves. 2. Contains Discharge or spill by: Ditching covering, applying sorbents, constructing an earthen dam, or burning. 3. If burning is required, obtains approval from the appropriate state air quality control government agencies before burning. 	<ol style="list-style-type: none"> 1. Straw 2. Loose Earth 3. Oil Sorbent 3M Brand 4. Plain Wood chips 5. Sorb-Oil Chips Banta Co. 6. Sorb-Oil Swabs Banta Co. 7. Sorb-Oil Mats Banta Co. 8. Or Equivalent Materials
B. Vehicle	<ol style="list-style-type: none"> 1. Contains discharge or spill by: ditching, covering surface with dirt, constructing earthen dams, apply sorbents, or burning. 2. Notifies immediately the Safety and Environmental Department and if there is any imminent danger to local residents; notifies immediately the highway patrol or local police officials. 3. If burning is required, obtains approval from the appropriate state air quality control government agencies before burning. <p>Note: Any vehicle carrying any hazardous or toxic substance will carry a shovel or other ditching device to contain a spill. If the vehicle has sufficient room, sorbent materials should also be carried.</p>	
C. Bulk Storage Tanks or any other Facilities	<ol style="list-style-type: none"> 1. Contains discharge or spill by: ditching, covering, applying sorbents, constructing an earthen dam, or burning. 2. If burning is required, obtains approval from the appropriate state air quality control government agencies before burning. 	

APPENDIX A
WASTE ANALYSIS

APPENDIX C

**NMOCD NOTIFICATION OF FIRE, BREAKS, SPILLS, LEAKS,
AND BLOWOUTS**

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 South First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

State of New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-1
Originated 2/13

Submit 2 copies
Appropriate District
Office in accordance
with Rule 116
back side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☐ Final Report

Name	Contact
Address	Telephone No.
Facility Name	Facility Type

Surface Owner	Mineral Owner	Lease No.
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
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NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was impacted, Describe Fully. (Attach Additional Sheets If Necessary)

Describe Cause of Problem and Remedial Action Taken. (Attach Additional Sheets If Necessary)

Describe Area Affected and Cleanup Action Taken. (Attach Additional Sheets If Necessary)

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:	OIL CONSERVATION DIVISION		
Printed Name:	Approved by District Supervisor:		
Title:	Approval Date:	Expiration Date:	
Date:	Phone:	Conditions of Approval:	Attached <input type="checkbox"/>

116.A. NOTIFICATION

(1) The Division shall be notified of any unauthorized release occurring during the drilling, producing, storing, disposing, injecting, transporting, servicing or processing of crude oil, natural gases, produced water, condensate or oil field waste including Regulated NORM, or other oil field related chemicals, contaminants or mixture thereof, in the State of New Mexico in accordance with the requirements of this Rule. [1-1-50...2-1-96; A, 3-15-97]

(2) The Division shall be notified in accordance with this Rule with respect to any release from any facility of oil or other water contaminant, in such quantity as may with reasonable probability be detrimental to water or cause an exceedance of the standards in 19 NMAC 15.A.19. B(1), B(2) or B(3). [3-15-97]

116.B. REPORTING REQUIREMENTS: Notification of the above releases shall be made by the person operating or controlling either the release or the location of the release in accordance with the following requirements: [5-22-73...2-1-96; A, 3-15-97]

(1) A Major Release shall be reported by giving both immediate verbal notice and timely written notice pursuant to Paragraphs C(1) and C(2) of this Rule. A Major Release is:

- (a) an unauthorized release of a volume, excluding natural gases, in excess of 25 barrels;
- (b) an unauthorized release of any volume which:
 - (i) results in a fire;
 - (ii) will reach a water course;
 - (iii) may with reasonable probability endanger public health; or
 - (iv) results in substantial damage to property or the environment;
- (c) an unauthorized release of natural gases in excess of 500 mcf; or
- (d) a release of any volume which may with reasonable probability be detrimental to water or cause an exceedance of the standards in 19 NMAC 15.A.19. B(1), B(2) or B(3). [3/15/97]

(2) A Minor Release shall be reported by giving timely written notice pursuant to Paragraph C(2) of this Rule. A Minor Release is an unauthorized release of a volume, greater than 5 barrels but not more than 25 barrels; or greater than 50 mcf but less than 500 mcf of natural gases. [3-15-97]

116.C. CONTENTS OF NOTIFICATION

(1) Immediate verbal notification required pursuant to Paragraph B shall be reported within twenty-four (24) hours of discovery to the Division District Office for the area within which the release takes place. In addition, immediate verbal notification pursuant to Subparagraph B.(1).(d). shall be reported to the Division's Environmental Bureau Chief. This notification shall provide the information required on Division Form C-141. [5-22-73...2-1-96; A, 3-15-97]

(2) Timely written notification is required to be reported pursuant to Paragraph B within fifteen (15) days to the Division District Office for the area within which the release takes place by completing and filing Division Form C-141. In addition, timely written notification required pursuant to Subparagraph B.(1).(d). shall also be reported to the Division's Environmental Bureau Chief within fifteen (15) days after the release is discovered. The written notification shall verify the prior verbal notification and provide any appropriate additions or corrections to the information contained in the prior verbal notification. [5-22-73...2-1-96; A, 3-15-97]

116.D. CORRECTIVE ACTION: The responsible person must complete Division approved corrective action for releases which endanger public health or the environment. Releases will be addressed in accordance with a remediation plan submitted to and approved by the Division or with an abatement plan submitted in accordance with Rule 19 (19 NMAC 15.A.19). [3-15-97]

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B. Plans, specifications and reports required by this Section, if related to facilities for the production, refinement and pipeline transmission of oil and gas, or products thereof, shall be filed instead with the Oil Conservation Division. [1-4-68, 12-1-95]

C. Plans and specifications required to be filed under this Section must be filed prior to the commencement of construction. [9-3-72]

1203. NOTIFICATION OF DISCHARGE--REMOVAL.

A. With respect to any discharge from any facility of oil or other water contaminant, in such quantity as may with reasonable probability injure or be detrimental to human health, animal or plant life, or property, or unreasonably interfere with the public welfare or the use of property, the following notifications and corrective actions are required: [2-17-74, 12-24-87]

1. As soon as possible after learning of such a discharge, but in no event more than twenty-four (24) hours thereafter, any person in charge of the facility shall orally notify the Chief of the Ground Water Protection and Remediation Bureau of the department, or his counterpart in any constituent agency delegated responsibility for enforcement of these rules as to any facility subject to such delegation. To the best of that person's knowledge, the following items of information shall be provided:

a. the name, address, and telephone number of the person or persons in charge of the facility, as well as of the owner and/or operator of the facility;

b. the name and address of the facility;

c. the date, time, location, and duration of the discharge;

d. the source and cause of discharge;

e. a description of the discharge, including its chemical composition;

f. the estimated volume of the discharge; and

g. any actions taken to mitigate immediate damage from the discharge.

[2-17-74, 2-20-81, 12-24-87, 12-1-95]

2. When in doubt as to which agency to notify, the

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person in charge of the facility shall notify the Chief of the Ground Water Protection and Remediation Bureau of the department. If that department does not have authority pursuant to commission delegation, the department shall notify the appropriate constituent agency. [12-24-87, 12-1-95]

3. Within one week after the discharger has learned of the discharge, the facility owner and/or operator shall send written notification to the same department official, verifying the prior oral notification as to each of the foregoing items and providing any appropriate additions or corrections to the information contained in the prior oral notification. [12-24-87]

4. The oral and written notification and reporting requirements contained in this Subsection A are not intended to be duplicative of discharge notification and reporting requirements promulgated by the Oil Conservation Commission (OCC) or by the Oil Conservation Division (OCD); therefore, any facility which is subject to OCC or OCD discharge notification and reporting requirements need not additionally comply with the notification and reporting requirements herein. [2-17-74, 12-24-87]

5. As soon as possible after learning of such a discharge, the owner/operator of the facility shall take such corrective actions as are necessary or appropriate to contain and remove or mitigate the damage caused by the discharge. [2-17-74, 12-24-87]

6. If it is possible to do so without unduly delaying needed corrective actions, the facility owner/operator shall endeavor to contact and consult with the Chief of the Ground Water Protection and Remediation Bureau of the department or appropriate counterpart in a delegated agency, in an effort to determine the department's views as to what further corrective actions may be necessary or appropriate to the discharge in question. In any event, no later than fifteen (15) days after the discharger learns of the discharge, the facility owner/operator shall send to said Bureau Chief a written report describing any corrective actions taken and/or to be taken relative to the discharge. Upon a written request and for good cause shown, the Bureau Chief may extend the time limit beyond fifteen (15) days. [12-24-87, 12-1-95]

7. The Bureau Chief shall approve or disapprove in writing the foregoing corrective action report within thirty (30) days of its receipt by the department. In the event that the report is not satisfactory to the department, the Bureau Chief shall specify in writing to the facility owner/operator any shortcomings in the report or in the corrective actions already taken or proposed to be taken relative to the discharge, and shall give the facility owner/operator a reasonable and clearly specified

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time within which to submit a modified corrective action report. The Bureau Chief shall approve or disapprove in writing the modified corrective action report within fifteen (15) days of its receipt by the department. [12-24-87]

8. In the event that the modified corrective action report also is unsatisfactory to the department, the facility owner/operator has five (5) days from the notification by the Bureau Chief that it is unsatisfactory to appeal to the department secretary. The department secretary shall approve or disapprove the modified corrective action report within five (5) days of receipt of the appeal from the Bureau Chief's decision. In the absence of either corrective action consistent with the approved corrective action report or with the decision of the secretary concerning the shortcomings of the modified corrective action report, the department may take whatever enforcement or legal action it deems necessary or appropriate. [12-24-87, 12-1-95]

9. If the secretary determines that the discharge causes or may with reasonable probability cause water pollution in excess of the standards and requirements of Section 4103 of this Part, and the water pollution will not be abated within one hundred and eighty (180) days after notice is required to be given pursuant to Section 1203.A.1 of this Part, the secretary may notify the facility owner/operator that he is a responsible person and that an abatement plan may be required pursuant to Sections 4104 and 4106.A of this Part. [12-1-95]

B. Exempt from the requirements of this Section are continuous or periodic discharges which are made: [2-17-74]

1. in conformance with regulations of the commission and rules, regulations or orders of other state or federal agencies; or [2-17-74]

2. in violation of regulations of the commission, but pursuant to an assurance of discontinuance or schedule of compliance approved by the commission or one of its duly authorized constituent agencies. [2-17-74]

C. As used in this Section and in Sections 4100 through 4115, but not in other Sections of this Part: [2-17-74, 12-1-95]

1. "discharge" means spilling, leaking, pumping, pouring, emitting, emptying, or dumping into water or in a location and manner where there is a reasonable probability that the discharged substance will reach surface or subsurface water; [2-17-74]

2. "facility" means any structure, installation, operation, storage tank, transmission line, motor vehicle, rolling

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stock, or activity of any kind, whether stationary or mobile;
[2-17-74]

3. "oil" means oil of any kind or in any form including petroleum, fuel oil, sludge, oil refuse and oil mixed with wastes; [2-17-74]

4. "operator" means the person or persons responsible for the overall operations of a facility; and
[12-24-87]

5. "owner" means the person or persons who own a facility, or part of a facility. [12-24-87]

D. Notification of discharge received pursuant to this Part or information obtained by the exploitation of such notification shall not be used against any such person in any criminal case, except for perjury or for giving a false statement.
[2-17-74]

E. Any person who has any information relating to any discharge from any facility of oil or other water contaminant, in such quantity as may with reasonable probability injure or be detrimental to human health, animal or plant life, or property, or unreasonably interfere with the public welfare or the use of property, is urged to notify the Chief of the Ground Water Protection and Remediation Bureau of the department. Upon such notification, the secretary may require an owner/operator or a responsible person to perform corrective actions pursuant to Sections 1203.A.5 or 1203.A.9 of this Part. [12-1-95]

[1204-1209] Reserved

1210. VARIANCE PETITIONS.

A. Any person seeking a variance pursuant to Section 74-6-4 (G) NMSA 1978, shall do so by filing a written petition with the commission. The petitioner may submit with his petition any relevant documents or material which the petitioner believes would support his petition. Petitions shall: [7-19-68, 11-27-70, 9-3-72]

1. state the petitioner's name and address;
[7-19-68, 11-27-70]

2. state the date of the petition; [7-19-68]

3. describe the facility or activity for which the variance is sought; [7-19-68, 11-27-70]

4. state the address or description of the property upon which the facility is located; [11-27-70]

APPENDIX D

WELL SEARCH RESULTS

Location	Name	Depth (ft)	Elevation (ft)	Depth to water (ft)	Water bearing unit	Specific Conductance (umhos)	Notes
31.11.34.3	G. Foster	60	5670	7	Qal	610-828	Not potable since drilling
31.11.34.3131	R. Pettijohn	95	5720	77.3	Tn	2240	Water softner used
31.11.34.4434	L. Likes	47	5680	20	Qal	1320-1380	--
31.11.35.3131	G. Saline	--	5720	8	Tn	1575	--
30.11.10	A. Moore	32	--	--	Qal	--	--

From ref 2

Location	Name	Well #	Use	Depth (ft)	Perforations (ft)
30.11.02.113	H. Valdez	SJ-0975	Dom	60	27-30
30.11.02.13	M. Atchison	SJ-1217	Dom	60	--
30.11.03.1	J. Girardi	SJ-1437	Dom, stk	40	--
30.11.03.131	T. Orbensen	SJ-1339	Mul	40	25-35
30.11.03.132	R. Sipe	SJ-0350	Dom	46	--
30.11.03.132	R. Sipe	SJ-1441	Dom	48	--
30.11.03.14	A. Thornton	SJ-1387	Dom	40	--
30.11.03.2	J. Dunning	SJ-1313	Dom	70	35-65
30.11.03.212	K. McQuintty	SJ-1202	Dom	35	--
30.11.03.233	M. Madlenor	SJ-0698	Dom	44	--
30.11.03.234	J. Pitts	SJ-1261	Dom	48	--
30.11.03.3	T. McCall	SJ-0402	Dom	32	--
30.11.03.32	S. Bell	SJ-0762	Dom, stk	47	--
30.11.03.32	G. Mullins	SJ-1734	Dom	33	--
30.11.03.32	R. Sipe	SJ-1440	Dom	41	--
30.11.03.33	R. Pitts	SJ-1020	Dom	27	--
30.11.03.41	K. Monk	SJ-1238	Dom, stk	95	35-95
30.11.03.414	H. Douglass	SJ-1043	Dom, irr	50	--
30.11.03.42	J. Downes	SJ-1249	San	52	30-50
30.11.03.444	F. Montano	SJ-0366	Dom	33	--