GW - 153

PERMITS, RENEWALS, & MODS Application

ATTACHMENT TO THE DISCHARGE PERMIT RENEWAL GW-153
EL PASO FIELD SERVICES
ANGEL PEAK 2B3A COMPRESSOR STATION
DISCHARGE PERMIT APPROVAL CONDITIONS
November 18, 2003

1. Payment of Discharge Permit Fees: OCD acknowledges receipt of all fees associated with this permit.

2. Commitments: El Paso Field Services will abide by all commitments submitted in the discharge permit renewal application letter dated August 21, 2003 and these conditions for approval.

3. Waste Disposal: All wastes will be disposed of at an OCD-approved facility. Only exempt oilfield wastes shall be disposed of down Class II injection wells. Non-exempt oilfield wastes that are non-hazardous may be disposed of at an OCD-approved facility upon proper waste determination per 40 CFR Part 261. Any waste stream that is not listed in the discharge permit will be approved by OCD on a case-by-case basis. Rule 712 Waste: Pursuant to Rule 712, disposal of certain non-domestic waste is permitted at solid waste facilities permitted by the New Mexico Environment Department as long as:
    1. the waste stream is identified, and authorized, as such in the discharge permit, and;
    2. existing process knowledge of such waste stream does not change without notification to the Oil Conservation Division.

4. Drum Storage: All drums containing material other than fresh water must be stored on an impermeable pad with curbing. All empty drums will be stored on their sides with the bungs in and lined up on a horizontal plane. Chemicals in other containers such as sacks or buckets will also be stored on an impermeable pad and curb type containment.

5. Process Areas: All process and maintenance areas which show evidence that leaks and spills are reaching the ground surface must be either paved and curbed or have some type of spill collection device incorporated into the design.

6. Above Ground Tanks: All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new tanks or existing tanks that undergo a major modification, as determined by the division, must be placed within an impermeable bermed enclosure.

7. Above Ground Saddle Tanks: Above ground saddle tanks must have impermeable pad and curb type containment unless they contain fresh water or fluids that are gases at atmospheric temperature and pressure.

8. Labeling: All tanks, drums and containers must be clearly labeled to identify their contents and other emergency notification information.

9. Below Grade Tanks/Sumps: All below grade tanks, sumps, and pits must be approved by the OCD prior to installation or upon modification and must incorporate secondary containment and leak-detection into the design. All below grade tanks and sumps must be tested annually. Results of such tests shall be maintained at the facility covered by this discharge permit and available for NMOCD inspection. Permit holders may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure and/or visual inspection of cleaned out tanks and/or sumps, or other OCD approved methods. The OCD will be notified at least 72 hours prior to all testing.

10. Underground Process/Wastewater Lines: All underground process/wastewater pipelines must be approved by the OCD prior to installation and must be tested to demonstrate their mechanical integrity every five (5) years. Results of such tests shall be maintained at the facility covered by this discharge permit and available for NMOCD inspection. Permit holders may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure or other means acceptable to the OCD. The OCD will be notified at least 72 hours prior to all testing.

11. Class V Wells: No Class V wells that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes will be approved for construction and/or operation unless it can be demonstrated that groundwater will be impacted in the reasonably foreseeable future. Leach fields and other wastewater disposal systems at OCD regulated facilities that inject non-hazardous fluid into or above an underground source of drinking water are considered Class V injection wells under the EPA UIC program. Class V wells that inject domestic waste only must be permitted by the New Mexico Environment Department.

12. Housekeeping: All systems designed for spill collection/prevention will be inspected weekly and after each storm event to ensure proper operation and to prevent overtopping or system failure. A record of inspections will be retained on site for a period of five years.

13. Spill Reporting: All spills/releases will be reported pursuant to OCD Rule 116 and WQCC 1203 to the OCD Artesia District Office.

14. Transfer of Discharge Permit: The OCD will be notified prior to any transfer of ownership, control, or possession of a facility with an approved discharge permit. A written commitment to comply with the terms and conditions of the previously approved discharge permit must be submitted by the purchaser and approved by the OCD prior to transfer.

15. Storm Water Plan: El Paso Field Services shall maintain storm water runoff controls. As a result of operations, if any water contaminant that exceeds the WQCC standards listed in 20 NMAC 6.2.3101 is discharged in any storm water run-off, then El Paso Field Services shall: take immediate actions to mitigate the effects of the run-off, notify the OCD within 24 hours, and modify the discharge permit to include a formal storm water run-off containment plan and submit for OCD approval within 15 days.

16. Closure: The OCD will be notified when operations at the Angel Peak 2B3A Compressor Station are discontinued for a period in excess of six months. Prior to closure of the facility, the company will submit a closure plan for approval. Closure and waste disposal will be in accordance with the statutes, rules and regulations in effect at the time of closure.

17. Conditions accepted by: El Paso Field Services, by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein. El Paso Field Services further acknowledges that the division for good cause shown as necessary to protect fresh water, human health and the environment may change the conditions and requirements of this permit administratively.

El Paso Field Services

Print Name: Bennie J. Armenta

Signature: Bennie J. Armenta

Title: Manager

Date: 1-5-04

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

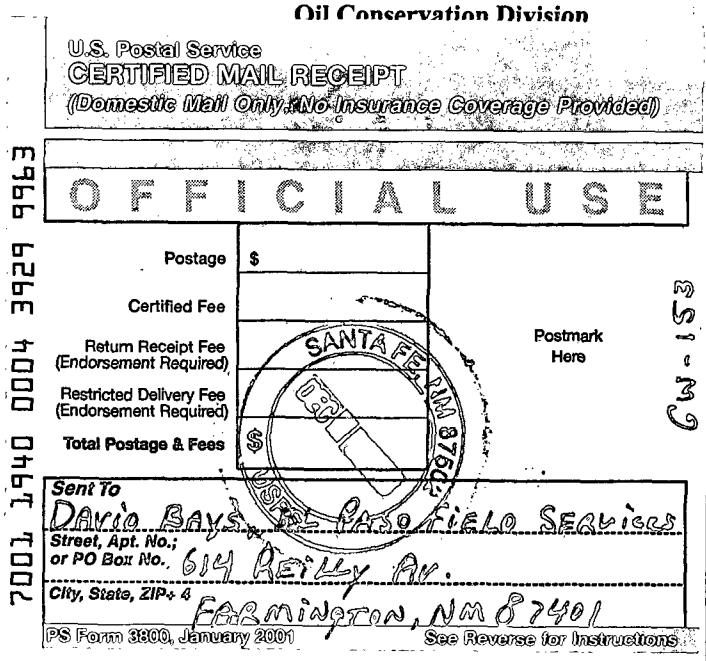
Lori Wrotenbery
Director
Oil Conservation Division

November 18, 2003

CERTIFIED MAIL
RETURN RECEIPT NO. 3929-9963

Mr. David Bays
El Paso Field Services
614 Reilly Ave.
Farmington, NM 87401

RE: Discharge Permit Renewal GW-153
El Paso Field Services
Angel Peak 2B3ACompressor Station
San Juan County, New Mexico



Dear Mr. Bays:

The ground water discharge permit renewal GW-153 for the El Paso Field Services Angel Peak 2B3A Compressor Station located in the SW/4 NW/4 of Section 20, Township 27 North, Range 10 West, NMPM, San Juan County, New Mexico, is hereby approved under the conditions contained in the enclosed attachment. Enclosed are two copies of the conditions of approval. **Please sign and return one copy to the New Mexico Oil Conservation Division (OCD) Santa Fe office within thirty (30) days of receipt of this letter.** Mailing address appears below.

The discharge permit renewal application letter, dated August 21, 2003, submitted pursuant to Section 3106 of the New Mexico Water Quality Control Commission (WQCC) Regulations includes all earlier applications and approvals and all conditions later placed on those approvals. The discharge permit is renewed pursuant to Section 3109.C. Note Section 3109.G, which provides for possible future amendment of the permit. Be advised that approval of this permit does not relieve El Paso Field Services of responsibility should operations result in pollution of surface water, groundwater or the environment. Nor does it relieve El Paso Field Services of its responsibility to comply with any other governmental authority's rules and regulations.

Also be advised that all exposed pits, including lined pits and open tanks (exceeding 16 feet in diameter) shall be screened, netted or otherwise rendered nonhazardous to wildlife including migratory birds.

Section 3104 of the regulations provides: "When a plan has been approved, discharges must be consistent with the terms and conditions of the plan." Pursuant to Section

Pursuant to Section 3109.H.4, this permit is for a period of five years. This permit will expire on December 31, 2008, and El Paso Field Services should submit an application in ample time before that date. Section 3106.F of the regulations states that if a discharger submits a discharge permit renewal application at least 120 days before the discharge permit expires and is in compliance with the approved permit, then the existing discharge permit will not expire until the application for renewal has been approved or disapproved.

The discharge permit renewal application for the El Paso Field Services Angel Peak 2B3A Compressor Station is subject to WQCC Regulation 3114. Every facility submitting a discharge permit application is assessed a filing fee of $100.00. There is a renewal flat fee assessed for gas compressor stations with less than 1,000 horsepower of $400.00.

On behalf of the staff of the OCD, I wish to thank you and your staff for your cooperation during this discharge permit review.

Sincerely,

Roger C. Anderson
Chief, Environmental Bureau
Oil Conservation Division

RCA/eem
Attachment

Xc: OCD Aztec Office

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EL PASO FIELD SERVICES
ANGEL PEAK 2B3A COMPRESSOR STATION
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November 18, 2003

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4. Drum Storage: All drums containing material other than fresh water must be stored on an impermeable pad with curbing. All empty drums will be stored on their sides with the bungs in and lined up on a horizontal plane. Chemicals in other containers such as sacks or buckets will also be stored on an impermeable pad and curb type containment.

5. Process Areas: All process and maintenance areas which show evidence that leaks and spills are reaching the ground surface must be either paved and curbed or have some type of spill collection device incorporated into the design.

6. Above Ground Tanks: All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new tanks or existing tanks that undergo a major modification, as determined by the division, must be placed within an impermeable bermed enclosure.

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17. Conditions accepted by: El Paso Field Services, by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein. El Paso Field Services further acknowledges that the division for good cause shown as necessary to protect fresh water, human health and the environment may change the conditions and requirements of this permit administratively.

El Paso Field Services

Print Name: _____

Signature: _____

Title: _____

Date: _____

ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt of check No. [redacted] dated 9-5-03,

or cash received on 9/9/03 in the amount of $ 500.00

from GULFTERRA (EPFS)

for ANGEL PEAK ~~2B3B~~ 2B3A CANYON C.S. GW-~~238~~ 153
(Facility Name) (OP No.)

Submitted by: Ed Martin Date: 9-9-03

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 ___

GULFTERRA FIELD SERVICES, LLC
1001 Louisiana, Suite 2700
HOUSTON, TX 77002

CITIBANK
One Penn's Way
New Castle, DE 19720

CHECK DATE
09/05/2003

[redacted]

62-20
311

Amount
***$500.00
VOID AFTER ONE YEAR

PAY ***FIVE HUNDRED AND XX/100 US DOLLAR***

To The Order Of
STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
1220 S ST FRANCIS DR
SANTA FE, NM 87505

Authorized Signature

GULFTERRA FIELD SERVICES, LLC
1001 Louisiana, Suite 2700
HOUSTON, TX 77002

REMITTANCE ADVICE

CHECK DATE	09/05/2003
CHECK NUMBER	[redacted]
VENDOR NUM	0000002667

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
1220 S ST FRANCIS DR
SANTA FE, NM 87505

RETAIN FOR YOUR RECORDS

Refer Payment Inquires to DELOS - 713-420-4200

Voucher ID	Invoice Number	Invoice Date	Discount	Paid Amount
00014673	STMT20030821B	08/21/2003	0.00	500.00
	PERMIT NO GW-~~153~~ 153			
	TOTAL		$0.00	$500.00

ATTACHMENT TO THE DISCHARGE PLAN GW-153
EL PASO ENERGY CORPORATION
ANGEL PEAK 2B3A COMPRESSOR STATION
DISCHARGE PLAN APPROVAL CONDITIONS
(November 2, 1998)

1. Payment of Discharge Plan Fees: The $50.00 filing fee has been received by the OCD. The $345.00 required flat fee may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the plan, with the first payment due upon receipt of this approval.

2. El Paso Energy Corporation Commitments: El Paso Energy Corporation will abide by all commitments submitted in the discharge plan renewal application dated August 28, 1998 and these stipulations for renewal.

3. Waste Disposal: All wastes will be disposed of at an OCD approved facility. Only oilfield exempt wastes shall be disposed of down Class II injection wells. Non-exempt oilfield wastes that are non-hazardous may be disposed of at an OCD approved facility upon proper waste characterization per 40 CFR Part 261.

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13. Spill Reporting: All spills/releases will be reported pursuant to OCD Rule 116 and WQCC 1203 to the OCD Aztec District Office.

14. Transfer of Discharge Plan: The OCD will be notified prior to any transfer of ownership, control, or possession of a facility with an approved discharge plan. A written commitment to comply with the terms and conditions of the previously approved discharge plan must be submitted by the purchaser and approved by the OCD prior to transfer.

15. Closure: The OCD will be notified when operations of the Angel Peak 2B3A Compressor Station are discontinued for a period in excess of six months. Prior to closure of the Angel Peak 2B3A Compressor Station a closure plan will be submitted for approval by the Director. Closure and waste disposal will be in accordance with the statutes, rules and regulations in effect at the time of closure.

16. Certification: El Paso Energy Corporation, by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein. El Paso Energy Corporation further acknowledges that these conditions and requirements of this permit may be changed administratively by the Division for good cause shown as necessary to protect fresh water, human health and the environment.

Accepted:

EL PASO ENERGY CORPORATION

by _____ manager
Title

ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt of check No. [redacted] dated 11/25/98,

or cash received on _____ in the amount of $ 345.00

from EPNG

for Angel Peak C.S. GW-153
(Facility Name) (DP No.)

Submitted by: _____ Date: _____

Submitted to ASD by: RA Anderson Date: 11/11/99

Received in ASD by: _____ Date: _____

Filing Fee ___ New Facility ___ Renewal X

Modification ___ Other _____
(specify)

Organization Code 521.07 Applicable FY 99

To be deposited in the Water Quality Management Fund.

Full Payment X 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

EL PASO NATURAL GAS COMPANY
P.O. Box 1492
El Paso, TX 79978

PAYABLE AT:
CITIBANK DELAWARE
A Subsidiary of Citicorp
One Penn's Way
New Castle, DE 19720

DATE 11/25/98
VOID AFTER 1 YEAR
62-20/311

[redacted]

PAY AMOUNT
$345.00***

PAY: ***THREE HUNDRED FORTY-FIVE AND XX / 100 US DOLLAR****
TO THE ORDER OF NEW MEXICO ENVIRONMENT DEPT

Water Quality Management
Oil Conservation Division
2040 S Pacheco
Santa Fe, NM 87505

H. Grant Austin
Authorized Signature

COPYBAN - ANTI-FRAUD PROTECTION - PATENTS 4,210,346; 4,227,720; 4,310,180; 5,197,765

[redacted]

Detach and retain for your records

Check Date: 11/25/98

EL PASO NATURAL GAS COMPANY

Refer Pmt Inquires to (915) 496-5354

Check No. [redacted]

Invoice Number	Invoice Date	Voucher ID	Gross Amount	Discount Available	Paid Amount
CKREQ981117	11/17/98	00051190	345.00	0.00	345.00

GW-153
Angel Peak 2B3A

Vendor Number	Vendor Name		Total Discounts	
8000000573	New Mexico Environment Dept		$0.00	
Check Number	**Date**	**Total Amount**	**Discounts Taken**	**Total Paid Amount**
[redacted]	11/25/98	$ 345.00	$ 0.00	$345.00

FM SS0044 (REV. 10/94)

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

November 2, 1998

CERTIFIED MAIL
RETURN RECEIPT NO. Z-357-870-032

Mr. David Bays, REM
El Paso Energy Corporation
614 Reilly Avenue
Farmington, New Mexico 87401

RE: Discharge Plan Renewal GW-153
El Paso Energy Corporation
Angel Peak 2B3A Compressor Station
San Juan County, New Mexico

Dear Mr. Bays:

The ground water discharge plan renewal GW-153 for the El Paso Energy Corporation Angel Peak 2B3A Compressor Station located in the SW/4 NW/4 of Section 20, Township 27 North, Range 10 West, NMPM, San Juan County, New Mexico, **is hereby approved** under the conditions contained in the enclosed attachment. The discharge plan consists of the renewal application dated August 28, 1998 and the attached stipulations of approval. Enclosed are two copies of the conditions of approval. **Please sign and return one copy to the New Mexico Oil Conservation Division (OCD) Santa Fe Office within 10 working days of receipt of this letter.**

The discharge plan renewal application was submitted pursuant to Section 3106 of the New Mexico Water Quality Control Commission (WQCC) Regulations. It is approved pursuant to Section 3109.A. Please note Sections 3109.E and 3109.F, which provide for possible future amendments or modifications of the plan. Please be advised that approval of this plan does not relieve El Paso Energy Corporation of liability should operations result in pollution of surface water, ground water, or the environment.

Please be advised that all exposed pits, including lined pits and open tanks (tanks exceeding 16 feet in diameter), shall be screened, netted, or otherwise rendered nonhazardous to wildlife including migratory birds.

Please note that Section 3104 of the regulations provides: "When a plan has been approved, discharges must be consistent with the terms and conditions of the plan." Pursuant to Section 3107.C., El Paso Energy Corporation 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.

Pursuant to Section 3109.G.4., this plan is for a period of five years. This approval will expire on **December 31, 2003**, and El Paso Energy Corporation should submit an application in ample time before this date. Note that under Section 3106.F. of the regulations, if a discharger submits a discharge plan renewal application at least 120 days before the discharge plan expires and is in compliance with the approved plan, then the existing discharge plan will not expire until the application for renewal has been approved or disapproved. It should be noted that all discharge plan facilities will be required to submit the results of an underground drainage testing program as a requirement for discharge plan renewal.

The discharge plan renewal application for the El Paso Energy Corporation Angel Peak 2B3A Compressor Station is subject to WQCC Regulation 3114. Every billable facility submitting a renewal discharge plan application will be assessed a fee equal to the filing fee of $50 plus a flat fee of $345.00 for compressor station facilities with horsepower rating between 1000 and 3000 horsepower. The OCD has received the filing fee.

Please make all checks payable to **NMED-Water Quality Management** and addressed to the OCD Santa Fe Office.

On behalf of the staff of the OCD, I wish to thank you and your staff for your cooperation during this discharge plan review.

Sincerely,

Roger C. Anderson
Chief, Environmental Bureau
Oil Conservation Division

RCA/wjf
Attachment

xc: OCD Aztec Office

Z 357 870 032

US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.
Do not use for International Mail (See reverse)

Sent to	David Bays
Street & Number	El Paso
Post Office, State, & ZIP Code	Farmington
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	GW-153

PS Form 3800, April 1995

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12. Housekeeping: All systems designed for spill collection/prevention will be inspected weekly and after each storm event to ensure proper operation and to prevent overtopping or system failure. A record of inspections will be retained on site for a period of five years.

13. Spill Reporting: All spills/releases will be reported pursuant to OCD Rule 116 and WQCC 1203 to the OCD Aztec District Office.

14. Transfer of Discharge Plan: The OCD will be notified prior to any transfer of ownership, control, or possession of a facility with an approved discharge plan. A written commitment to comply with the terms and conditions of the previously approved discharge plan must be submitted by the purchaser and approved by the OCD prior to transfer.

15. Closure: The OCD will be notified when operations of the Angel Peak 2B3A Compressor Station are discontinued for a period in excess of six months. Prior to closure of the Angel Peak 2B3A Compressor Station a closure plan will be submitted for approval by the Director. Closure and waste disposal will be in accordance with the statutes, rules and regulations in effect at the time of closure.

16. Certification: El Paso Energy Corporation, by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein. El Paso Energy Corporation further acknowledges that these conditions and requirements of this permit may be changed administratively by the Division for good cause shown as necessary to protect fresh water, human health and the environment.

Accepted:

EL PASO ENERGY CORPORATION

by_____
Title

EL PASO NATURAL GAS COMPANY
P.O. Box 1492
El Paso, TX 79978

PAYABLE AT
CITIBANK DELAWARE
A Subsidiary of Citicorp
One Penn's Way
New Castle, DE 19720

DATE 07/30/98
VOID AFTER 1 YEAR
62-20/311

[redacted]

PAY AMOUNT
$50.00***

PAY: ****FIFTY AND XX / 100 US DOLLAR****
TO THE ORDER OF NMED WATER QUALITY MANAGEMENT

2040 S Pacheco
Santa Fe, NM 87505

Authorized Signature

[redacted]

Detach and retain for your records

Check Date: 07/30/98

EL PASO NATURAL GAS COMPANY

Refer Pmt Inquires to (915) 496-5354

Check No. 07413391

Invoice Number	Invoice Date	Voucher ID	Gross Amount	Discount Available	Paid Amount
CKREQ980727	07/27/98	00043286	50.00	0.00	50.00

ANGELPEAK 2B-3A

Vendor Number	Vendor Name			Total Discounts	
8000001207	Nmed Water Quality Management			$0.00	
Check Number	**Date**		**Total Amount**	**Discounts Taken**	**Total Paid Amount**
[redacted]	07/30/98		$ 50.00	$ 0.00	$50.00

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

BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

December 13, 1993

CERTIFIED MAIL
RETURN RECEIPT NO. P-111-334-290

Ms. Anu Pundari
El Paso Natural Gas Company
P.O. Box 4990
Farmington, New Mexico 87499

Re: Discharge Plan (GW-153)
Angel Peak Compressor Station 2B3A
San Juan County, New Mexico

Dear Ms. Pundari:

The groundwater discharge plan GW-153 for the El Paso Natural Gas Co. Angel Peak 2B3A Compressor Station located in the SW/4 NW/4 Section 20, Township 27 North, Range 10 West, NMPM, San Juan County, New Mexico **is hereby approved** under the conditions contained in the enclosed attachment. The discharge plan consists of the application dated October 18, 1993.

The discharge plan was submitted pursuant to section 3-106 of the Water Quality Control Commission Regulations. It is approved pursuant to section 3-109.A.. Please note Section 3-109.F., which provides for possible future amendment of the plan. Please be advised that approval of this plan does not relieve you of your liability should your operation result in actual pollution of surface or ground waters or the environment which may be actionable under other laws and/or regulations.

Please be advised that all exposed pits, including lined pits and open top tanks (exceeding 16 feet in diameter) shall be screened, netted, or otherwise rendered nonhazardous to wildlife including migratory birds.

Please note that section 3-104 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 3-107.C. you are 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.

Pursuant to Section 3-109.G.4., this approval is for a period of five years. This approval will expire December 13, 1998 and you should submit an application for renewal in ample time before that date.

The discharge plan application for the El Paso Natural Gas Co. Angel Peak 2B3A Compressor Station is subject to the WQCC Regulation 3-114 discharge plan fee. Every billable facility submitting a discharge plan will be assessed a fee equal to the filing fee of fifty (50) dollars and a flat rate fee. There is no flat rate fee for compressor stations with less than 1000 horsepower.

On behalf of the staff of the Oil Conservation Division, I wish to thank you and your staff for your cooperation during this discharge plan review.

Sincerely,

William J. LeMay
Director

WJL/cee
Attachment

xc: OCD Aztec Office

ATTACHMENT TO THE DISCHARGE PLAN GW-153 APPROVAL
EL PASO NATURAL GAS COMPANY
ANGEL PEAK 2B3A COMPRESSOR STATION
DISCHARGE PLAN REQUIREMENTS
(December 13, 1993)

1. Drum Storage: All drums will be stored on pad and curb type containment.

2. Sump Inspection: All pre-existing sumps will be cleaned and visually inspected on an annual basis. Any new sumps or below-grade tanks will approved by the OCD prior to installation and will incorporate leak detection in their designs.

3. Berms: All tanks that contain materials other than freshwater will be bermed to contain one and one-third (1-1/3) the capacity of the largest tank within the berm or one and one-third (1-1/3) the total capacity of all interconnected tanks.

4. Pressure testing: All discharge plan facilities are required to pressure test all underground piping at the time of discharge plan renewal. All new underground piping shall be designed and installed to allow for isolation and pressure testing at 3 psi above normal operating pressure.

5. Spills: All spills and/or leaks will be reported to the OCD district office pursuant to WQCC Rule 1-203 and OCD Rule 116.

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. [redacted] dated 11/24/93,

or cash received on 12/6/93 in the amount of $ 100.00

from El Paso Natural Gas Company
Angel Peak Compressor Station 2B3A

for Angel Peak Compressor Station 2B3B — GW-153, GW-154
(Facility Name) (DP No.)

Submitted by: _____ Date: _____

Submitted to ASD by: Kathy Brown Date: 12/6/93

Received in ASD by: Angie Allure Date: 12-6-93

Filing Fee X-2 New Facility ___ Renewal ___

Modification ___ Other _____
(specify)

Organization Code 521.07 Applicable FY 94

To be deposited in the Water Quality Management Fund.

Full Payment ___ or Annual Increment ___

El Paso Natural Gas Company

P.O. BOX 1492
EL PASO, TX 79978

PAYABLE AT
CITIBANK DELAWARE
A SUBSIDIARY OF CITICORP
ONE PENN'S WAY
NEW CASTLE, DE 19720

CONTROL NO. [redacted]

232 CBD
62-20
311

11/24/93
Date

PAY TO THE ORDER OF

NEW MEXICO WATER QUALITY
MANAGEMENT
P O BOX 2088
SANTA FE NM 87504

PAY AMOUNT
$100.0
Void After 1 Year

John M. Bean Jr.
Authorized Signatory

[redacted]

El Paso Natural Gas Company

P.O. BOX 1492
EL PASO, TX 79978

PAYABLE AT
CITIBANK DELAWARE
A SUBSIDIARY OF CITICORP
ONE PENN'S WAY
NEW CASTLE, DE 19720

CONTROL NO.
[redacted]

2 CBD

62-20
311

11/24/93
Date

PAY TO THE ORDER OF

NEW MEXICO WATER QUALITY
MANAGEMENT
P O BOX 2088
SANTA FE NM 87504

PAY AMOUNT
$100.00
Void After 1 Year

PIPELINE OF CHOICE

Authorized Signatory

[redacted]

Detach and retain this statement for your records

EL PASO NATURAL GAS COMPANY

REMITTANCE ADVICE

Vendor Number
018111 001

Check Date
11/24/93

Check Number
[redacted]

VOUCHER NUMBER	INVOICE NUMBER	AMOUNT		
		Invoice	Discount	Net
REFER PAYMENT INQUIRIES TO ACCOUNTS PAYABLE (915) 541-5354				
VOUCHER NO	INVOICE NO	GROSS	DISCOUNT	NET
000286202	CKREQ931122	100.00	.00	100.00
DISCHARGE PLAN FEES				
ANGEL PEAK COMPRESSOR STATION 2B3A (GW-153)				
ANGEL PEAK COMPRESSOR STATION 2B3B (GW-154)				
	TOTALS	100.00	.00	100.00

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

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

Revised 12/1/95

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

RECEIVED
AUG 27 2003
Environmental Bureau
Oil Conservation Division

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

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

☐ New ☒ Renewed ☐ Modification

1. Type: Angel Peak Compressor Station, Site 2B-3A, Discharge Plan GW-153
2. Operator: El Paso Field Services Co.

   Address: 614 Reilly Ave. Farmington, NM 87401

   Contact Person: David Bays Phone (505) 599-2256
3. Location: SW/4 NW/4 Section 20 Township 27 North Range 10 West
4. Attach the name, telephone number and address of the landowner of the facility site.
5. Attach the description of the facility with a diagram indicating locaiton of fences, pits, dikes and tanks on the facility. **Submitted with original Discharge Plan application - no modifications**
6. Attach a description of all materials stored or used at the facility.
7. Attach a description of present sources of effluent and waste soilds. Average daily quality and daily volume of waste water must be included.
8. Attach a description of current liquid waste and solid waste collection/treatment/disposal systems.
9. Attach a description of proposed modifications to existing collection/treatment/disposal systems.
10. Attach a routine inspection and maintenance plan to ensure permit compliance.
11. Attach a contingency plan for reporting and clean-up of spills or releases.
12. Attach geological/hydrological inforamtion for the facility. Depth to and quality of ground water must be included.
13. Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any other rules, regulations, and/or orders.
14. CERTIFICATION

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

NAME: David Bays Title: Principal Environmental Scientist

Signature: David Bays Date: August 21, 2003

EL PASO FIELD SERVICES COMPANY
ANGEL PEAK COMPRESSOR STATION, SITE 2B-3A
DISCHARGE PLAN GW-153 RENEWAL

Prepared for:

New Mexico Oil Conservation Division
August 2003

El Paso Field Services Company
614 Reilly Avenue
Farmington, NM 87401

ANGEL PEAK COMPRESSOR STATION, SITE 2B-3A
DISCHARGE PLAN NUMBER GW-153

This Discharge Plan renewal has been prepared in accordance with Oil Conservation Division Guidelines for the Preparation of Ground Water Discharge Plans at Natural Gas Processing Plants.

1. Type of Operation

El Paso Field Services Company (EPFS) owns and operates a 1085 Horsepower (site rated at 998 Horsepower) Caterpillar G3516 reciprocating engine and compressor. The unit compresses approximately 7 MMSCFD of natural gas from a low pressure field line (2B-3, 250 psig) to a high pressure line (6D-7, 500 psig). The site is located approximately 19 miles south of Bloomfield, New Mexico.

El Paso Field Services Company is the owner and operator of the compressor facility. The dehydrator located at the facility is operated by Burlington Resources, Inc. ("Burlington").

Major Operational Components:

- a 1085 HP compressor
- one outlet triethylene glycol (TEG) dehydrator with regenerator heater and 200 gallon makeup TEG tank.
- one 210 barrel oil storage tank (associated with dehydrator)
- one two phase inlet separator
- one suction scrubber
- one interstage scrubber
- one fuel gas filter
- one 500 gallon lubricating oil makeup tank
- one fin fan cooler
- one 300 gallon waste oil fiberglass reinforced plastic tank
- one 62 barrel fiberglass reinforced plastic dehydrator blowdown tank

2. Operator, Legally Responsible Party and Local Representative

Legally Responsible Party:

Mr. E. Randall West
El Paso Field Services Company
4 Greenway Plaza
Houston, TX 77046
(832) 676-5410

Environmental Manager:	**Mr. Douglas Jordan** **El Paso Field Services Company** **4 Greenway Plaza** **Houston, TX 77046** **(832) 676-5454**
Operations Manager:	**Mr. Bennie Armenta** **El Paso Field Services Company** **614 Reilly Avenue** **Farmington, NM 87401** **(505) 599-2232**
Dehydrator Operator:	Burlington Resources, Inc. 3535 E. 30th Street Farmington, NM 87401 (505) 326-8411

3. Location of Facility

The facility is approximately 6 miles south and 7 miles east from Bloomfield, NM, in the SW/4 of the NW/4 (Block E), Section 20, Township 27 North, Range 10 West, San Juan County, New Mexico.

4. Landowner

Bureau of Land Management
1235 La Plata Highway
Farmington, NM 87401

5. Facility Description

The facility is a natural gas field compressor. No modifications to the plant equipment or design have been made since the submittal of the original Discharge Plan in 1993.

6. Materials Stored and Used at the Facility

Mobile Pegasus 490 lubricating oil - engine and compressor lubricant
Triethylene glycol - natural gas dehydration
Ambitrol Thermofluid - ethylene glycol based engine coolant/antifreeze

7. Sources, Quantities, and Quality of Effluent and Solid Waste

Inlet Separator

A two phase inlet separator separates the gas and liquids. A mixture of hydrocarbons and water discharges to the inlet of the separator/treater. Approximately 70 to 100 gallons per month will be discharged into the Separator/Treater. The Separator/Treater is part of the outlet dehydrator system. The exact volume of liquids varies depending the quality of the gas.

Compressor

A 1085 HP (site rated 998 HP)compressor is installed on the site. The compressor is mounted on a steel skid consisting of a built-in compressor pad with a non-permeable tray around the compressor unit to contain spills. The skid will insure containment of drips, spills, and washdown from the unit.

The compressor is installed in such a manner to ensure containment of drips, spills, and washdown water. Any spill of washdown water from cleaning operations will be contained and discharged into a 300 gallon fiberglass reinforced plastic ("fiberglass") tank. The tank is placed in an open pit. The tank rests on a gravel pad at least one inch thick so that the entire tank is exposed to visually detect leaks. The tank is covered with a fiberglass lid.

Washdown Water

The compressor is washed every mouth with 30 gallons to 50 gallons of water. The washdown water is discharged into the 300 gallon fiberglass reinforced plastic tank mentioned above through the skid drain line. A nontoxic, biodegradable cleaner is used to clean the compressor unit.

Engine Lubricating Oil, Used Oil and Used Engine Oil Filters

A 500 gallon elevated lubricating makeup oil tank is located south of the compressor. The tank is bermed to contain one and one third times the volume of tank.

Approximately 115 gallons per month of waste lube oil is generated. This oil is drained into the 300 gallon fiberglass skid drain tank. Waste oil generated by the compressor is hauled from the site and is recycled.

One compressor oil filter is replaced every month. Three engine oil fibers are replaced every month. The engine oil filters are allowed to completely drain prior to disposal at Crouch Mesa Landfill.

Compressor Waste Oil

Approximately 75 gallons per month of waste oil is generated through continuous blowdown from the compressor packing vent drain. The packing vent drain discharges into the 300 gallon fiberglass skid drain tank.

Fuel Gas Scrubber

The fuel is supplied from the compressor discharge line. A fuel gas filter (Y strainer with a valve) is installed at the inlet of the fuel gas line. The volume of liquid from the fuel gas filter is very small. Approximately 1 to 5 gallons per month of a mixture of hydrocarbons and water will discharge into the 300 gallon fiberglass skid drain tank. The volume of liquids will vary depending the quality of the gas.

The fuel gas filter is replaced as needed depending on the quality of the gas. The fuel gas filter is drained of any free of any liquids prior to disposal at Crouch Mesa landfill.

Engine Cooling Water

A 35 gallon cooling water surge tank is located on the skid mounted compressor package. A mixture of propylene glycol and water is used as cooling water. If it is necessary to drain the cooling water system for maintenance or repairs, the cooling water is drained into steel drums or a small portable tank. After maintenance repairs the cooling water is placed back into the cooling system.

Suction and Interstage Scrubber

A suction scrubber and an interstage scrubber are mounted on the compressor skid. Both scrubbers remove natural gas liquids. Approximately 10 to 30 gallons of waste water per month is generated by the scrubbers. This waste water is discharge to the inlet of the three phase separator/treater (the separator/treater is part of the dehydrator system). The volume of liquids will vary depending the quality of the gas.

Outlet Dehydrator

The dehydration portion of the facility is operated by Burlington. The dehydrator is skid mounted and located to west of the compressor. The dehydrator consists of a filter separator, separator/treater, absorber, and regenerator. The dehydrator area is bermed. There are four 2 inch drain lines and one oil dump line from the dehydrator system.

The four drain lines discharge into a 62 barrel fiberglass tank. The tank is placed in an open pit on a 6 inch high steel support frame so that the entire tank is elevated to allow visual leak detection. The tank is covered with a lid.

A 200 gallon elevated triethylene glycol makeup tank is located west of the dehydrator. The tank is bermed to contain one and one third times the volume of tank.

The four drain lines are described below:

Regenerator - Triethylene Glycol (TEG) Overflow Line - This line contains small quantities of TEG and water. Under normal operating conditions, there should be no discharge from this line. On occasion, due to mechanical problems, there may be a small amount of TEG and water discharged from this line into the 62 barrel fiberglass tank.

Regenerator - Steam Vent Line from Still Column - This line contains water, trace quantities of TEG and trace quantities of hydrocarbons. Less than one barrel per day will be discharged from this line into the 62 barrel fiberglass tank.

Separator/Treater - Produced Water - This line contains produced water, trace amounts of hydrocarbons and trace amounts of TEG. Approximately 2 barrels per day discharge into the 62 barrel fiberglass tank.

Separator/Treater - Backpressure Regulator Vent Line - This line contains produced water, trace amounts of hydrocarbons and trace amounts of TEG. It is estimated that approximately 2 barrels per day will discharge into the 62 barrel fiberglass tank.

A total of approximately 1 to 2 barrels per day discharge into a 210 barrel above ground oil storage tank from the Separator/Treater oil dump line. The 210 barrel tank ins located within an earthen berm sized to contain one and one third times the volume of the tank.

8. Collection, Treatment, and Disposal Systems

A. Summary Information

Source	Onsite Collection Point
Inlet Separator:	Separator/Treater
Compressor:	
Washdown Water	300 gallon fiberglass tank
Lubricating Oil Makeup	500 gallon aboveground storage tank
Waste Lube Oil	300 gallon fiberglass tank
Engine Oil Filters	55 gallon drum
Packing Vent Waste Oil	300 gallon fiberglass tank
Engine Cooling Water	Drums/Portable Tank
Suction and	
Interstage Scrubber	Separator/Treater
Fuel Gas Filter Strainer	300 gallon fiberglass tank
Fuel Gas Filter Element	Drum
Outlet Dehydrator:	
Separator/Treater(Water)	62 BBL fiberglass tank
Separator/Treater(Oil)	210 BBL above ground steel tank
Regenerator	62 BBL fiberglass tank
TEG Makeup Tank	200 gallon overhead tank

B. Specifications

Pipelines - All wastewater piping to the 300 gallon fiberglass and 62 barrel fiberglass are above ground and not pressurized. The suction scrubber and interstage scrubber discharge piping are below ground and pressurized to a maximum of 250 psig.

The piping from the inlet separator to the separator/treater is above ground. The normal operating pressure is 50 psig.

A portion of the wastewater piping from the outlet dehydrator separator/treater is below ground and a portion is aboveground. The drain lines to the 62 barrel fiberglass tank are above ground and are not pressurized. The oil dump line from the Separator/Treater is below ground and normal operating pressure is 30 psig.

C. Fluids Disposal and Storage Tanks

The hydrocarbons from the 300 gallon fiberglass, 62 barrel fiberglass, and 210 barrel above ground steel storage tank will be recycled. The water fraction from the three tanks will be transported to the EPFS Kutz Hydrocarbon Recovery Facility for treatment and disposal. Additional information is provided in the Effluent Disposal Section below.

D. Prevention of Unintentional and Inadvertent Discharges

All storage tanks for fluids other than fresh water are bermed to contain a volume one and one third more that the tank contents. All above ground tanks are placed on a gravel pad or placed on an elevated stand so that leaks can be visually detected.

There will be no chemical or drum storage area. Drums utilized to contain engine cooling water, or waste oil will be removed from the site at the end of each working day.

E. Underground Pipelines

All underground wastewater piping will be hydrostatically tested at a minimum of three pounds over operating pressure for a minimum of four hours.

Offsite Disposal:

All liquids from this site are handled in accordance with NMOCD and NMED regulations. Liquids from this site are expected to be discharged into two fiberglass tanks and one steel tank. All liquids will be removed from the site by either EPFS or Burlington. All liquids will be recycled if possible.

Hauling Agent **Three Rivers Trucking**
603 E. Murray Drive
Farmington, NM 87401

Oily waste water is transported to the EPFS Kutz Hydrocarbon Recovery Facility located on County Road 4900, east of U. S. Highway 544. Produced water is transported to the Basin Disposal salt water injection well located at 6 County Road 5046 in Bloomfield.

Burlington is responsible for liquids disposal from the 62 barrel fiberglass tank and 210 barrel oil storage tank.

Oil Hauling Agent:	**Giant Oil Transportation Inc.** **4551 Heffera Road** **Bloomfield, NM 87413**		
Oil Final Disposal:	**Giant Refinery** **89 Road 4990** **Bloomfield, NM 87413**		
Water Hauling Agent:	Three Rivers Trucking 603 E. Murray Drive Farmington, NM 87402	or	Triple S Trucking 816 S. Main Aztec, NM 87410
Water Final Disposal:	McGrath salt Water Disposal Well Block B, Sec. 34, T34N, R12W		

9. Proposed Modifcations

There are no modifications planned to any facility collection, treatment, or disposal systems.

10. Inspection, Maintenance and Reporting

The site is visited on a daily basis by EPFS employees. Each day the compressor and the 300 gallon fiberglass tank will be inspected for any leaks.

The dehydrator site is visited regularly by Burlington employees. Burlington will inspect the inlet separator, filter separator, separator/treater, absorber, and regenerator, 62 barrel fiberglass tank, and 210 barrel steel tank for any leaks or spills.

11. Spill/Leak Prevention and Reporting (Contingency Plans)

The compressor site is graded and bermed so that precipitation and runoff does not cause water to enter or leave the process areas.

The dehydrator process area are bermed so that precipitation and runoff does not cause water to leave the process area. The compressor area is equipped with a skid so that any leaks or spills are contained. In addition, the 500 gallon lube oil storage tank, 210 barrel oil storage tank, and the 200 gallon TEG make-up tank are bermed.

The 300 gallon fiberglass tank and 62 Barrel fiberglass tank are set according to OCD guidelines so that the entire tank is exposed to visually detect leaks.

Since the site is visited on a regular basis, any leaks, spills, and or drips will be identified. Regularly scheduled maintenance procedures will also help to assure that the equipment remains functional and thus the possibility of spills or leaks is further minimized.

Leaks, spills, and drips will be handled in accordance with OCD Rule 116 as follows:

Small spills will be raked out in place to allow for natural bio-remediation of the spilled material.

Large spills will be contained with temporary berms. Free liquids will pumped out by a vacuum truck. Any hydrocarbon liquids will be recycled. Residue from large spills will be cleaned up for off site disposal. If the soil is an "exempt" waste, the soil will be disposed at Envirotech or other OCD approved landfarm facility. If the soil is an "nonexempt" waste the soil will be characterized and disposed according to the analysis results.

Verbal and written notification of leaks or spills will be made to OCD in accordance with Rule 116.

All areas identified during operation as susceptible to leaks or spills win be bermed or otherwise contained to prevent the discharge of effluents.

EPFS personnel will carry oil absorbent booms in their trucks. The booms will be used as needed to contain any spills or leaks. The booms will be disposed according to OCD and NMED guidelines.

12. Site Geological/Hydrological Characteristics

The site is located in the San Juan River drainage basin, and within the west central portion of the San Juan structural basin. Topographic relief within 1 mile of the site is about 441 feet with elevations from 5880 to 6321 feet above sea level.

The area around the site is characterized by badlands topography, where numerous arroyos dissect easily eroded sandstone, mudstone and shale mesas. The average annual precipitation in the area is 6 to 10 inches. This area efforts native grasses and small shrubs.

GEOMORPHOLOGY AND SOILS

Site 2B-3A is at the bottom of a sloping terrace in the arroyo of an unnamed drainage basin. The surface slopes about 0 to 3 percent from the highest point, 5960 feet at the compressor site to 5880 feet off to the northwest of the site. Major soil associations in the area of the compressor site include the Badland and Riverwash series (USSCS, 1977). The Badland unit consists of non stony, barren shale uplands dissected by deep intermittent drainage ways and shales. The Riverwash unit consists of areas of unstabilized sandy, silty, clayey, or gravely sediment on flood plains, stream beds. and riverbeds in arroyos.

REGIONAL GEOLOGY

The compressor site is located within the west-central part of the San Juan Basin. The deepest portion of the basin contains up to 15,000 feet of Paleozoic and Mesozoic sediments (Fassett and Hinds, 1971). Tertiary and Holocene age rocks crop out in the immediate vicinity of the compressor site. The following geologic descriptions examine the different units from the oldest to the youngest.

Ojo Alamo - Beneath the plant the Paleocene Ojo Alamo Sandstone lies unconformably above the Cretaceous Kirtland Shale. The Ojo Alamo Sandstone is composed of interbedded sandstone, conglomerate sandstone, and shale. The massive sandstone beds are sheetlike and discontinuous, they merge with other sandstone sheets, or wedge out into shale beds. The shale beds maintain relative constant thickness. The unit varies from less than 20 feet to more than 400 feet thick throughout the basin. Channel deposits of 50 or more feet have cut into the base of the underlying Fruitland Formations. The sandstone accumulated in stream channels and the shales in overbank deposits of rivers in a broad, wet apron.

Nacimiento - The Paleocene Nacimiento Formation is conformable with the Ojo it is comprised of gray to yellowish and reddish claystone and mudstone beds, interbedded with bid gray or white lenticular sandstone beds. The clay component is described as "swelling" or "soapy." The formation contains significant amounts of carbonaceous material leaf impressions and coal indicating that it was deposited by streams under more humid conditions thin was the Ojo.

The Nacimiento varies from 400 to 800 feet in thickness and crops out in striking scarp or badlands exposures from the Colorado-New Mexico border southward across the San Juan River then southeastward to the point of Cuba Mesa and northward to the upper Rio Puerco valley north of Cuba.

Thick Quaternary deposits are restricted to the San Juan, Animas and La Plata Valleys. Thin alluvial deposits are found in some arroyos and thin eolian deposits cap some mesas.

LOCAL GEOLOGY

Site 2B-3A is located in an arroyo where Quaternary alluvium overlies the Tertiary Nacimiento and Ojo Alamo Sandstone. EPNG Angel Peak Water Well No. 10 is located approximately 3 miles west, in NW/4 NE/4, Sec. 26, T27N, R11W. The drillers log for this well reports that 1002 feet of sand clay, shale and minor sandstone in the Nacimiento Formation were encountered above the Ojo Alamo Sandstone.

HYDROLOGY AND GROUNDWATER QUALITY

A. Regional Groundwater Hydrology and Water Quality

Three major groundwater systems are present in the Cretaceous and younger-age sedimentary deposits of this area of the San Juan Basin (Stone et al 1983).

Confined aquifers within Cretaceous and Tertiary sandstone units.

Water-table aquifers in Cretaceous and Tertiary sandstone units near their outcrop areas; Water-table aquifers in Quaternary alluvium in river valleys and tributaries.

Cretaceous units - occurrence of groundwater resources associated with the Cretaceous units is a function of the distribution of sandstone beds within these units. Recharge is dependent upon outcrop distribution, elevation, climate of the outcrop area, lithologic characteristics of the unit and leakage from other units. Hydraulic conductivity is low due to the fine-grained textures characteristic of these sediments.

Groundwater quality in Cretaceous sandstone aquifers is controlled by several factors. Total dissolved solids (TDS) concentrations increase as a function of increasing groundwater residence time and reduced transmissivity of aquifer materials. Fresh water is associated with high transmissivity zones while saline water is associated with low transmissivity zones. Groundwater moving along the sandstone-shale interfaces common to these rocks tend to exhibit increased TDS concentrations (Stone, et. al, 1983). Water from these confined aquifers is suitable for stock and domestic use in some areas, although in most cases it is not considered a major source.

Tertiary units - groundwater occurrence in the Tertiary units is associated with the distribution of sandstone beds within these units. Recharge to groundwater is by infiltration through formation exposures along the flanks of the Nacimiento Uplift and on the broad plateaus that occur in the central part of the basin. The amount of recharge to Tertiary aquifers is higher than that of Cretaceous aquifers due to broader exposures in areas of high precipitation. Groundwater in these aquifers flows from upland recharge areas to discharge areas along canyon floors. Springs and seeps result due to regional topographic and geomorphic controls. The hydraulic conductivity of the tertiary sandstones varies significantly, as a function of grain size, sorting and cementation. The hydraulic gradient is controlled by topography but the structural attitude of the formations can alter the flow direction.

Tertiary sandstone aquifers have generally lower TDS concentrations than the Cretaceous aquifers (Stone et. al. 1983), and commonly provide major sources of water for domestic and agricultural usage. The complex intertonguing of sandstone and shale units is the primary influence on specific conductance, which can be as high as 10,500 μm/cm.

Quaternary Units - Quaternary age aquifers occur primarily as valley fill in the major river valleys and consist of gravel sand, silt and clay. In arroyos the groundwater quality and quantity is highly variable. Where available, water from this source is used for stock, irrigation and domestic purposes.

B. Local Groundwater Hydrology and Quality

According to topographic maps published by New Mexico Oil Conservation Division to support "Vulnerable Area Order", R-7940-C, Compressor Site 2B-3A is located at the edge of the expanded vulnerable zone, possibly overlying an alluvial aquifer.

The State Engineers Office and Stone et. al. (1983) reports no wells within one mile of Site 2B-3A. Twenty nine wells exist within a six mile radius of the plant.

The EPNG Angel Peak Compressor Station is located approximately 2 miles northeast. Here, three wells were drilled by EPNG between 1951 and 1953 and completed at 235 feet in the Nacimiento Formation. Two of these wells produced some water but were later abandoned due to poor water quality. The third well was sanded-in and never completed.

Three wells were drilled at the plant site in 1969. All of these wells were drilled into the Ojo Alamo formation to depths between 946 and 1066 feet. All produced some water, but none was ever completed because of the poor water quality encountered.

EPNG Well #10, is located in Sec. 26, T27N, R11W, on a mesa west of Kutz Canyon. This well is completed in the Ojo Alamo Formation and is used for the potable water supply for EPNG Angel Peak Compressor Station. The aquifer appears confined, because the top of the Ojo Alamo is reported to be 1002 feet, and static water level is reported to be 550 feet below the ground surface. The total dissolved solids reported from this aquifer was 510 ppm on 7/13/82.

Surface Water Hydrology and Flooding Potential

Compressor 2B-3A is approximately 500 feet east of an unnamed arroyo which drains into the Kutz Canyon. The site is approximately one half mile upstream from the confluence with Kutz Canyon. Kutz Canyon drains approximately 200 square miles and discharges into the San Juan River west of Bloomfield. Flooding potential from the San Juan River to the site is negligible because the plant is approximately, 11 miles south of and well outside of the floodplain of the San Juan River. In addition, the compressor site will be graded and bermed so that precipitation and runoff does not cause water to enter or leave the process areas and thereby reduce the potential for flooding at the site.

13. Closure Plan

All reasonable and necessary measures will be taken to prevent the exceedance of 20 NMAC 6.2-3103 water quality standards should EPFS choose to permanently close the facility. Closure measures will include removal or closure in place of all underground piping and equipment. All tanks will be emptied. No potentially toxic materials or effluents will remain on site. All potential sources of toxic pollutants will be inspected. Should contaminated soil be discovered, any necessary reporting under NMOCD Rule 116 and 20 NMAC 6.2-1203 will be made, and clean-up activities will commence. Postclosure maintenance and monitoring plans would not be necessary unless contamination is encountered.