

GW - 88

**GENERAL
CORRESPONDENCE**

YEAR(S):
2003 - 1992



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Lori Wrotenbery

Director

Oil Conservation Division

January 9, 2003

CERTIFIED MAIL

RETURN RECEIPT NO. 3929 9390

Ms. Brittany D. Benko
BP America Production Company
200 Energy Court
Farmington, New Mexico 87401

**RE: Site Modification Notification
Callegos Canyon Compressor Station GW-088
San Juan County, New Mexico**

Dear Ms. Benko:

The OCD has received the site modification letter, dated December 10, 2002, from BP America Production Company for the Callegos Canyon Compressor Station located in the SW/4 NE/4 of Section 21, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico. The requested change of compressors with collection of effluent discharge through below-grade piping to an "environmental" steel pit is **herewith approved with the stipulation that the below-grade piping be place on a five year integrity testing schedule. All modifications must comply with the discharge permit and/or any renewals previously approved.**

Please note that Section 3104 of the regulations requires that **"When a permit has been approved, discharges must be consistent with the terms and conditions of the permit."** Pursuant to Section 3107.C BP America Production Company 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 BP America Production Company from liability should operations result in contamination to the environment.

If you have any questions contact me at (505) 476-3489.

Sincerely,

W. Jack Ford, C.P.G.
Environmental Bureau
Oil Conservation Division

cc: OCD Aztec District Office

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

7007 1940 0004 3929 9390

OFFICIAL USE

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Total Postage & Fees	\$

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Sent To	<i>B. Benko</i>
Street, Apt. No., or PO Box No.	<i>BP</i>
City, State, ZIP+4	<i>GW-088</i>

Ford, Jack

From: Benko, Brittany D [BenkoBD@bp.com]
Sent: Monday, January 13, 2003 4:39 PM
To: 'JWFORD@state.nm.us'
Subject: Discharge Plan - Gallegos Canyon (Hwy 64) Compressor Station

Jack,

The 21-barrel "environmental" pit is double-bottomed and double-walled at the Gallegos Canyon (Hwy 64) Compressor Station. Please let me know if you have further questions.

Thanks,
Brit

Brittany D Benko
Field Environmental Coordinator
SJPU HSE, Farmington, NM
Office (505) 326-9235
Cell (505) 486-4424
benkodb@bp.com



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Betty Rivera
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

February 12, 2002

CERTIFIED MAIL
RETURN RECEIPT NO. 3929 7471

Mr. Buddy Shaw
BP Amoco
200 Energy Court
Farmington, New Mexico 87401

RE: Discharge Plan Renewal GW-088
BP Amoco
Gallegos Canyon Compressor Station
San Juan County, New Mexico

Dear Mr. Shaw:

The ground water discharge plan renewal GW-088 for the BP Amoco Gallegos Canyon Compressor Station located in the SW/4 NE/4 of Section 21, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico, **is hereby approved** under the conditions contained in the enclosed attachment. The discharge plan consists of the discharge plan as approved January 17, 1992, and the renewal application dated October 30, 2001. 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 30 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 BP Amoco 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.

Mr. Buddy Shaw
GW-088 Gallegos Canyon Compressor Station
February 12, 2002
Page 2

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., BP Amoco 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 renewal plan is for a period of five years. This renewal will expire on **January 16, 2007**, and BP Amoco 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 .

The discharge plan renewal application for the BP Amoco Gallegos Canyon Compressor Station is subject to WQCC Regulation 3114. Every billable facility submitting a discharge plan application will be assessed a fee equal to the filing fee of \$100. There is a renewal flat fee equal to \$400.00 for compressor stations with less than 1,000 horsepower. The OCD has received the filing fee.

Please make all checks payable to: **Water Management Quality Management Fund**
C/o: **Oil Conservation Division**
1220 South St. Francis Drive
Santa Fe, New Mexico 87505.

If you have any questions please contact Mr. W. Jack Ford at (505) 476-3489. 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

U.S. Postal Service CERTIFIED MAIL RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
OFFICIAL USE	
Postage \$	
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees \$	
Sent To	B. Shaw
Street, Apt. No.; or PO Box No.	BP Amoco
City, State, ZIP+ 4	GW-088
7001 1940 0004 3929 7471	
PS Form 3800, January 2001 See Reverse for Instructions	

ATTACHMENT TO THE DISCHARGE PLAN RENEWAL GW-088
BP AMOCO
GALLEGOS CANYON COMPRESSOR STATION
DISCHARGE PLAN APPROVAL CONDITIONS
(February 12, 2002)

1. Payment of Discharge Plan Fees: The \$100.00 filing fee has been received by the OCD. There is a required flat fee equal to \$400.00 for compressor stations with less than 1,000 horsepower rating. The flat fee may be paid in a single payment due on the date of the discharge plan approval or in five equal installments over the expected duration of the discharge plan. Installment payments shall be remitted yearly, with the first installment due on the date of the discharge plan approval.
2. BP Amoco Commitments: BP Amoco will abide by all commitments submitted in the discharge plan renewal application dated October 30, 2001 and these conditions for approval.
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.
4. Drum Storage: All drums containing materials 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 will 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 pre-existing sumps and below-grade tanks must demonstrate integrity on an annual basis. Integrity tests include 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 tested to demonstrate their mechanical integrity a minimum of every 5 years. The permittee 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: Leach fields and other wastewater disposal systems at OCD regulated facilities which inject non-hazardous fluid into or above an underground source of drinking water are considered Class V injection wells under the EPA UIC program. All Class V wells that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes will be closed unless it can be demonstrated that groundwater will not be impacted in the reasonably foreseeable future. Closure of Class V wells must be in accordance with a plan approved by the Division's Santa Fe Office. The OCD allows industry to submit closure plans which are protective of fresh waters, public health and the environment, and are cost effective. 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 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 Gallegos Canyon Compressor Station are discontinued for a period in excess of six months. Prior to closure of the Gallegos Canyon 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: BP Amoco, by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein. BP Amoco 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:

BP AMOCO

by _____
Title

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, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

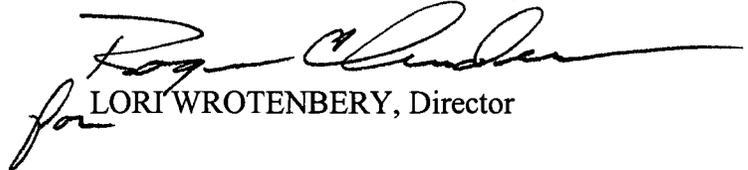
(GW-088) – Amoco Production Company, Mr. Buddy Shaw, 200 Energy Court, Farmington, New Mexico 87401 has submitted an application for their Gallegos Canyon Compressor Station located in the SW/4 NE/4 of Section 21, Township 29 North, Range 12 West, San Juan County, New Mexico. Approximately 2800 gallons per day of waste water will be stored in an above grade steel tank prior to transport to an OCD approved offsite Class II disposal well. Ground water most likely to be affected in the event of an accidental discharge at the surface is at a depth of approximately 200 feet with a total dissolved solids concentration of approximately 1000 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.

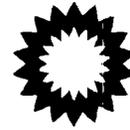
GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 7th day of December 2001.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


LORI WROTENBERY, Director

S E A L

bp



BP America Production Company

200 Energy Court
Farmington, NM 87401

Phone: (505) 326-9200

December 10, 2002

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

Re: Discharge Plan Modification (GW-088)
BP America Production Company
Gallegos Canyon (Highway 64) Compressor Station
San Juan County, New Mexico

Dear Mr. Anderson:

I am submitting a Discharge Plan modification for the Gallegos Canyon Compressor Station due to a change in the number and type of compressors at the site. We are replacing a single large compressor (Waukesha 5790 GL) with two smaller compressors (Cat 3412 TALE). In association with these compressors, we will install below ground piping from the compressor skids that drain to a 21-barrel "environmental" steel pit to better capture the lube oil, antifreeze and water that can collect on the compressor skid. I have not included Item 12 – geological/hydrological information as it has already been submitted.

If you have further questions please contact me at (505) 326-9235.

Sincerely,

A handwritten signature in cursive script that reads "Brittany D Benko".

Brittany D Benko
Environmental Coordinator

cc: OCD Aztec Office

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Revised January 24, 2001

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

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

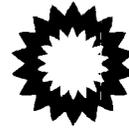
(Refer to the OCD Guidelines for assistance in completing the application)

New Renewal Modification

1. Type: **Compressor Station (Highway 64)**
2. Operator: **BP America Production Company**
Address: **200 Energy Court, Farmington, NM 87401**
Contact Person: **Brittany Benko** Phone: **(505) 326-9235**
3. Location: **SW/4 NE/4 Section 21 Township 29N Range 12W**
Submit large scale topographic map showing exact location.
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 location of fences, pits, dikes and tanks on the facility.
6. Attach a description of all materials stored or used at the facility.
7. Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste water must be included.
8. Attach a description of current liquid and solid waste collection/treatment/disposal procedures.
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 information 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 OCD 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: Brittany D Benko Title: Environmental Coordinator

Signature: Brittany D Benko Date: 12/18/2002



Discharge Plan (GW-088)

Gallegos Canyon (Highway 64) Compressor Station

Item 4- Facility Site Landowner

Bureau of Land Management
1235 La Plata Hwy.
Farmington, NM 87401
(505) 599-8900

Item 5 – Facility Diagram

The facility diagram is attached.

Item 6 – Materials Stored/Used:

Lube Oil	200 Gallons
Antifreeze	200 Gallons
Sub-grade Pit – Produced Water	95 Barrels
Tank - Produced Water/Oil Emulsion	300 Barrels
“Environmental” Pit	21 Barrels

Item 7 – Effluent Sources and Waste Solids

Sources of effluent

- 1) Produced water from gas stream
- 2) Compressor scrubber liquids
- 3) Compressor skid “runoff”

Waste Solids

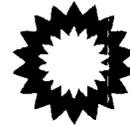
- 1) Petroleum contaminated soil (very small amounts)

Item 8 – Waste Collection/Treatment/Disposal Systems

Sources of Effluent

- 1) Produced water from the gas stream is separated before the compressor and is piped to the sub-grade tank at the southeast corner of the location; from there the produced water is piped to the tank along the western fence. The tank contents are piped to the Gallegos Canyon Unit 13-1 Underground Injection Well. The volume of this produced water is approximately 1 barrel/day.
- 2) Produced water from the compressor scrubber is piped directly to the tank on the western fence from which it is also piped to the GCU 13-1 Underground Injection Well. The volume of this water is less than 1 barrel/day.
- 3) Compressor skid liquids are piped to an “environmental” steel pit. The liquids from this pit are transferred by truck to one of three oil-skimming facilities and then the

bp



produced water is injected and the skimmed oil is sold. The three facilities are the Gallegos Canyon Unit #259, #328, or #306. The amount of fluid is generally very small, less than a gallon per day will be discharged to the pit. When the compressors are washed the amount increases slightly.

Waste Solids

- 1) Petroleum contaminated soils are land farmed on site. If a large spill were to occur, the contaminated soil would be taken to our Crouch Mesa Centralized Waste Management Facility (permitted by the OCD).

Item 9 – Proposed Modifications

There will be an addition of a 21-barrel “environmental” pit to capture discharges from the compressor skids. This fluid, which can contain lube oil and wash water is transferred by truck to an oil-skimming facility and then the produced water is disposed of in the Underground Injection Wells, GCU #259, #328, or #306.

Item 10 – Inspection and Maintenance Plan

The compressors at the facility are a part of the Hanover Company’s rental fleet. As a result, Hanover handles all callouts and they perform compressor preventative maintenance on a 45-day schedule. BP maintains the total facility and visits the site at least weekly. In addition, BP formally inspects and documents the inspection for each facility using the attached checklist, entitled *Green Day/SPCC Inspection Guidelines*.

Item 11 – Release Reporting and Cleanup

All releases greater than 1 gallon are reported internally to the Field Environmental Coordinator (FEC). The FEC will then determine our reporting responsibilities using the regulations and the attached *Agency Notification Flowchart*. All spills greater than 5 barrels, greater than the CERCLA Reportable Quantity and/or that leave the location will be reported to the NMOCD and the BLM. BP also utilizes the attached procedure, *Spill Cleanup and Remediation*, to guide our response.

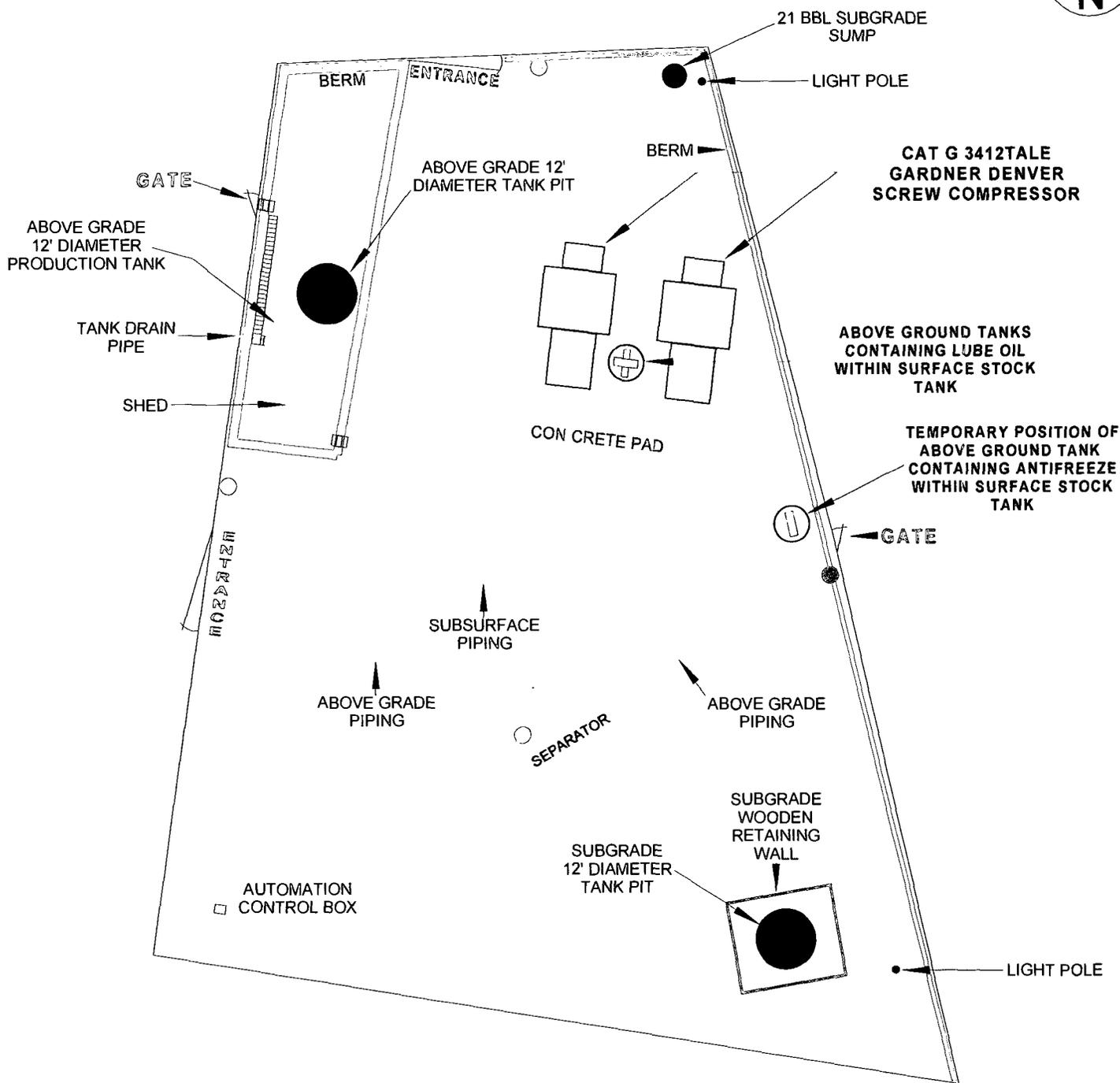
Item 12 – Geological/Hydrological Information

This item has not changed and is attached to our most recent renewal (10/31/2001).

Item 13 – Facility Closure Plan

When the facility is no longer in use, the rental compressors will be removed to The Hanover Company and the tanks and steel pits will be reused at other sites. All stained soils will be remediated on site, unless the contamination is extensive, then it will be removed to our Crouch Mesa Centralized Waste Management Facility. The site will be revegetated per NMOCD and BLM guidelines and requirements.

FIGURE 1



○ - INDICATES FIRE EXTINGUISHER LOCATION

SURFACE EQUIPMENT LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THEIR FOOTAGE AND BEARING (TAPE MEASURE & BRUNTON COMPASS). ALL OTHER STRUCTURES NOT LABELED ON THIS SITE MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.

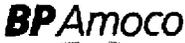
1 INCH = 30 FT.
 0 30 60 FT.

BP AMOCO
 HIGHWAY 64 COMPRESSOR STATION
 SW/4 NE/4 SEC. 21, T29N, R12W, NMPM
 SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.
 CONSULTING PETROLEUM / RECLAMATION SERVICES
 P.O. BOX 87
 BLOOMFIELD, NEW MEXICO 87413
 PHONE: (505) 632-1199

PROJECT: DISCHARGE PLAN
 DRAWN BY: NJV
 FILENAME: HWY64-SM2.SKF
 REVISED: 12/12/02 NJV

SITE MAP
 12/02

 	ENVIRONMENTAL PROCEDURE SPILL CLEANUP AND REMEDIATION	Proc #: ENV-8301 Revision #: 0 Printed on: 12/19/2002
SAN JUAN OPERATIONS CENTER	AUTHORIZED ON: 06/01/00	Page 1 of 3

- SCOPE** This procedure outlines the steps to clean up and remediate spills of oil, diesel, produced water and chemicals.
- REQUIREMENTS** Cleanup personnel are required to remain in contact with the Field Environmental Coordinator (FEC).
- APPLICABLE DOCUMENTS**
- New Mexico E-Manual
 - Material Safety Data Sheets (MSDS)
- MATERIALS AND EQUIPMENT**
- Rags, pads or other absorbent materials
 - Shovels, rakes
 - Vacuum truck
 - Backhoe
 - Dump truck
- SAFETY** This is a **safety critical** procedure.
- ENVIRONMENT** This is an **environmental critical** procedure.
- QUALITY** Failure to adhere to this procedure may impact environmental policies within the WGBU and San Juan Basin.

  	ENVIRONMENTAL PROCEDURE SPILL CLEANUP AND REMEDIATION	Proc #: ENV-8301 Revision #: 0 Printed on: 12/19/2002
SAN JUAN OPERATIONS CENTER	AUTHORIZED ON: 06/01/00	Page 2 of 3

PROCEDURE

1.0 PLAN THE CLEAN UP

- 1.1 Conduct an on site inspection to estimate the amount and severity of the spill.
- 1.2 Consult the Spill Cleanup and Remediation Decision Tree to decide best method of clean up.
- 1.3 Notify the One Call System, if applicable, and submit a workorder if a roustabout crew is needed to landfarm the location.
- 1.4 Contact the Analysis and Control Team to schedule a vacuum truck to recover any standing liquids.
- 1.5 Consult the FEC if specialized on site treatment (i.e. air, bug, revegetation, etc.) is needed.

2.0 CLEAN UP OF SPILLS LESS THAN ONE BARREL

NOTE: Minor spills can be left for natural attenuation with approval from the FEC.

- 2.1 Soak and clean up minor spills with absorbent pads or rags.
- 2.2 Cover contaminated soil with clean dirt.
- 3.1 Recover standing liquids for recycle and reuse.

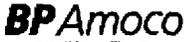
3.0 CLEAN UP OF SPILLS MORE THAN ONE BARREL



4.0 DISPOSAL OF MATERIALS

- 3.2 Excavate the affected area. Landfarm the soil on the well pad or transport to the Crouch Mesa site.
- 4.1 Transport rags, pads or other absorbent materials to the SJOC yard for drying.
- 4.2 Recycle and reuse recovered chemicals.

**SPILL CLEANUP AND REMEDIATION DECISION TREE
QUANTITY OF SPILL**

  	ENVIRONMENTAL PROCEDURE SPILL CLEANUP AND REMEDIATION	Proc #: ENV-8301 Revision #: 0 Printed on: 12/19/2002
SAN JUAN OPERATIONS CENTER	AUTHORIZED ON: 06/01/00	Page 3 of 3

LESS THAN ONE BARREL	GREATER THAN ONE BARREL
-----------------------------	--------------------------------

- | | |
|---|---|
| <ul style="list-style-type: none"> • Leave for natural attenuation • Soak up with absorbent materials • Landfarm with clean dirt | <ul style="list-style-type: none"> • Consult with FEC or Team Leader to determine proper method of clean up • Contact ACT Room to schedule vacuum truck if needed • Notify One Call System and submit workorder if roustabout crew is needed |
|---|---|

Consult New Mexico E-Manual for Waste Handling Requirements

- Rags, pads or other absorbent materials should be taken to the Operation Center yard to be dried out and then composted at the Crouch Mesa Central Soil Site
- Methanol, antifreeze, glycol, lube oil and diesel should be recovered and recycled by an approved vendor
- Affected soils should be composted on the well pad or transported to the Crouch Mesa Central Soil Site. Soil removal may be required by the Bureau of Land Management, New Mexico Oil Conservation Division or the Field Environmental Coordinator.

Green Day/SPCC Inspection Guidelines

Tank(s)	Visual Level Check and Float Condition/Position Where Applicable Manway Gasket – Leaks/Seeps/Stains Valves Sealed – Load, Drain and Equalize(Condensate Tanks Only) Load Line and Valve – Bulged/Warped/Cracked/Capped Drain Valve – Bulged/Warped/Cracked Vent Lines – Unobstructed Thief Hatch Gasket – Cracked or Brittle Berm Condition – Low Spots/Holes/Erosion Tank(s) and Equalize Lines - Free of Corrosion, Erosion, or Leaks Tank Foundation – Erosion, Signs of Leakage, or Deterioration
Dehy and Separator	Glycol System – Leaks/Seeps Valves (Dump and Hi/Lo) Leaks in trim or Packing Piping/Vessel – Leaks/Seeps of Fluids/Gas Open Ended Valves Plugged
Pit(s)	Visual Level Check and Float Condition/Position Excessive Oil/Condensate on Water Fencing/Netting in Good Condition and Adequate Visual for Leaks/Staining Load Line Valve Capped or Piped to Prevent Drainage
Lines	Visual for Leaks/Seeps/Staining from Fluids and Gas Open Ended Valves Plugged Lines Installed Allow for Proper Drainage (Freeze Potential)
Other	Compressor – Leaks/Seeps of Fluids and Gas Long Run Drums – Leaks/Seeps and Sight Glass Condition Engines – Leaks/Seeps/Stains of Oil or Antifreeze Pumping Unit – Stuffing Box Condition Open Ended Valves Plugged Hoses Weathered or Cracked Fences – Good Condition and Adequate Hazcom Signs/Labels are present (vessels/tanks/meter runs) and legible. Well sign at entrance of or on location and legible. Drums/Containers are labeled or correctly identified. (No mystery drums!) Drums/Totes have bungs/plugs/lids in place.
Actions	Repaired Shut in Reported (Called in or Work Order) Cleaned Up

This guideline is to be followed when performing monthly inspections.
Mark appropriate SPCC Inspection box showing that the inspection was performed.
Record any actions taken on attached exception report, and enter applicable work orders into Maximo or local spreadsheets for tracking purposes.

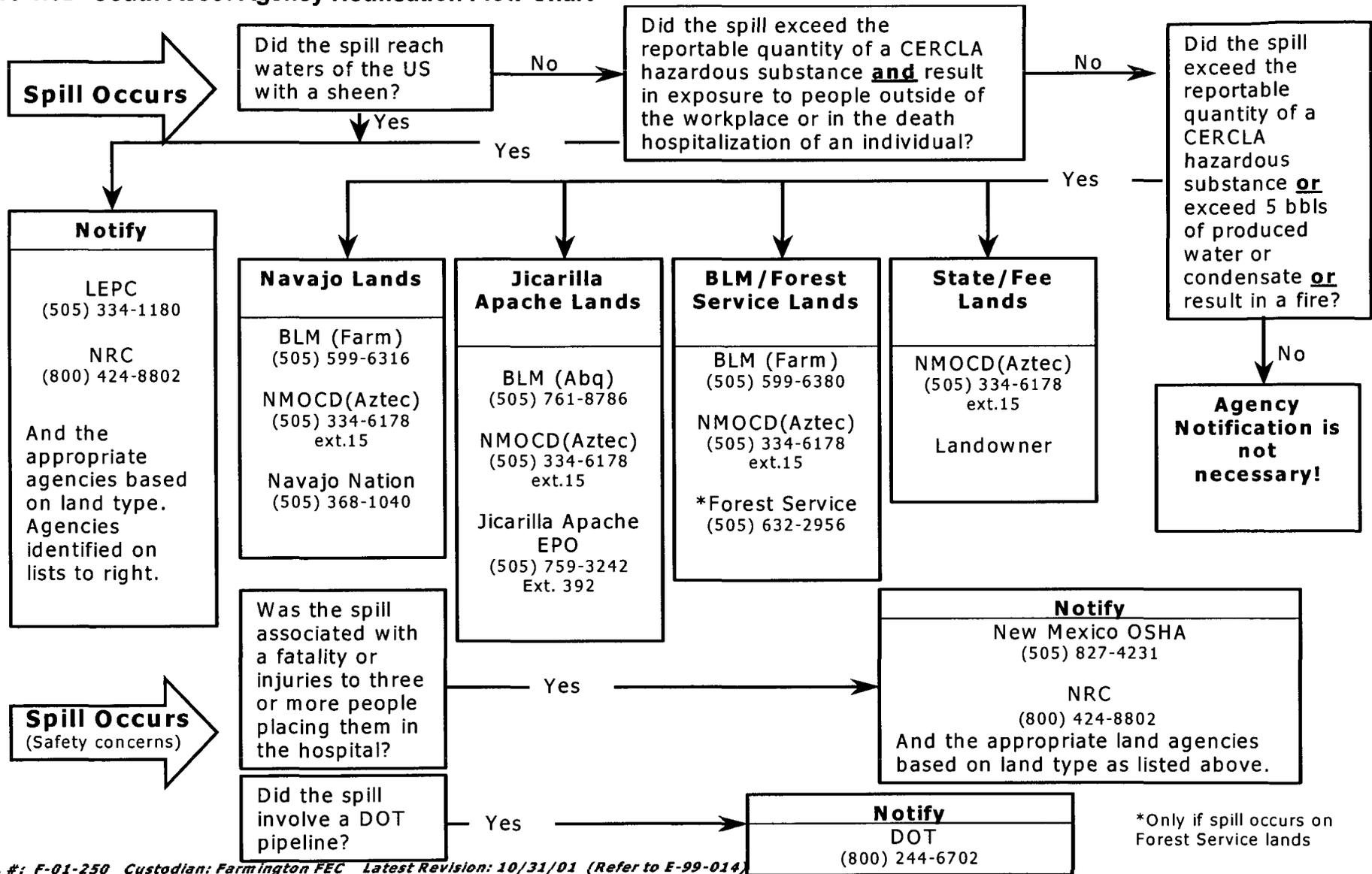
Green Day/SPCC Exception Report

List well name and action required/general comments. Piece of equipment, repaired, cleaned or work order submitted. Example: Hi/Lo valve leaking – repaired. Float not working – submitted work order, Mystery Drum on location – notified FEC, Well sign missing – notified Team Leader.

Well Name:
Action/Comments:

Name (Inspector):
Run or Area Number:
Date (Month/Year):

Figure 1.6D South Asset Agency Notification Flow Chart



Doc. #: F-01-250 Custodian: Farmington FEC Latest Revision: 10/31/01 (Refer to E-99-014)

bp



BP America Production Company

200 Energy Court
Farmington, NM 87401

Phone: (505) 326-9200

December 10, 2002

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

Re: Discharge Plan Modification (GW-088)
BP America Production Company
Gallegos Canyon (Highway 64) Compressor Station
San Juan County, New Mexico

Dear Mr. Anderson:

I am submitting a Discharge Plan modification for the Gallegos Canyon Compressor Station due to a change in the number and type of compressors at the site. We are replacing a single large compressor (Waukesha 5790 GL) with two smaller compressors (Cat 3412 TALE). In association with these compressors, we will install below ground piping from the compressor skids that drain to a 21-barrel "environmental" steel pit to better capture the lube oil, antifreeze and water that can collect on the compressor skid. I have not included Item 12 – geological/hydrological information as it has already been submitted.

If you have further questions please contact me at (505) 326-9235.

Sincerely,

A handwritten signature in cursive script that reads "Brittany D Benko". The signature is written in black ink and is positioned above the printed name and title.

Brittany D Benko
Environmental Coordinator

cc: OCD Aztec Office

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Revised January 24, 2001

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

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

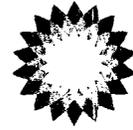
(Refer to the OCD Guidelines for assistance in completing the application)

New Renewal Modification

1. Type: Compressor Station (Highway 64)
2. Operator: BP America Production Company
Address: 200 Energy Court, Farmington, NM 87401
Contact Person: Brittany Benko Phone: (505) 326-9235
3. Location: SW/4 NE/4 Section 21 Township 29N Range 12W
Submit large scale topographic map showing exact location.
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 location of fences, pits, dikes and tanks on the facility.
6. Attach a description of all materials stored or used at the facility.
7. Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste water must be included.
8. Attach a description of current liquid and solid waste collection/treatment/disposal procedures.
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 information 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 OCD 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: Brittany D Benko Title: Environmental Coordinator

Signature: Brittany D Benko Date: 12/18/2002



Discharge Plan (GW-088)

Gallegos Canyon (Highway 64) Compressor Station

Item 4- Facility Site Landowner

Bureau of Land Management
1235 La Plata Hwy.
Farmington, NM 87401
(505) 599-8900

Item 5 – Facility Diagram

The facility diagram is attached.

Item 6 – Materials Stored/Used:

Lube Oil	200 Gallons
Antifreeze	200 Gallons
Sub-grade Pit – Produced Water	95 Barrels
Tank - Produced Water/Oil Emulsion	300 Barrels
“Environmental” Pit	21 Barrels

Item 7 – Effluent Sources and Waste Solids

Sources of effluent

- 1) Produced water from gas stream
- 2) Compressor scrubber liquids
- 3) Compressor skid “runoff”

Waste Solids

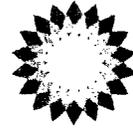
- 1) Petroleum contaminated soil (very small amounts)

Item 8 – Waste Collection/Treatment/Disposal Systems

Sources of Effluent

- 1) Produced water from the gas stream is separated before the compressor and is piped to the sub-grade tank at the southeast corner of the location; from there the produced water is piped to the tank along the western fence. The tank contents are piped to the Gallegos Canyon Unit 13-1 Underground Injection Well. The volume of this produced water is approximately 1 barrel/day.
- 2) Produced water from the compressor scrubber is piped directly to the tank on the western fence from which it is also piped to the GCU 13-1 Underground Injection Well. The volume of this water is less than 1 barrel/day.
- 3) Compressor skid liquids are piped to an “environmental” steel pit. The liquids from this pit are transferred by truck to one of three oil-skimming facilities and then the

bp



produced water is injected and the skimmed oil is sold. The three facilities are the Gallegos Canyon Unit #259, #328, or #306. The amount of fluid is generally very small, less than a gallon per day will be discharged to the pit. When the compressors are washed the amount increases slightly.

Waste Solids

- 1) Petroleum contaminated soils are land farmed on site. If a large spill were to occur, the contaminated soil would be taken to our Crouch Mesa Centralized Waste Management Facility (permitted by the OCD).

Item 9 – Proposed Modifications

There will be an addition of a 21-barrel “environmental” pit to capture discharges from the compressor skids. This fluid, which can contain lube oil and wash water is transferred by truck to an oil-skimming facility and then the produced water is disposed of in the Underground Injection Wells, GCU #259, #328, or #306.

Item 10 – Inspection and Maintenance Plan

The compressors at the facility are a part of the Hanover Company’s rental fleet. As a result, Hanover handles all callouts and they perform compressor preventative maintenance on a 45-day schedule. BP maintains the total facility and visits the site at least weekly. In addition, BP formally inspects and documents the inspection for each facility using the attached checklist, entitled *Green Day/SPCC Inspection Guidelines*.

Item 11 – Release Reporting and Cleanup

All releases greater than 1 gallon are reported internally to the Field Environmental Coordinator (FEC). The FEC will then determine our reporting responsibilities using the regulations and the attached *Agency Notification Flowchart*. All spills greater than 5 barrels, greater than the CERCLA Reportable Quantity and/or that leave the location will be reported to the NMOCD and the BLM. BP also utilizes the attached procedure, *Spill Cleanup and Remediation*, to guide our response.

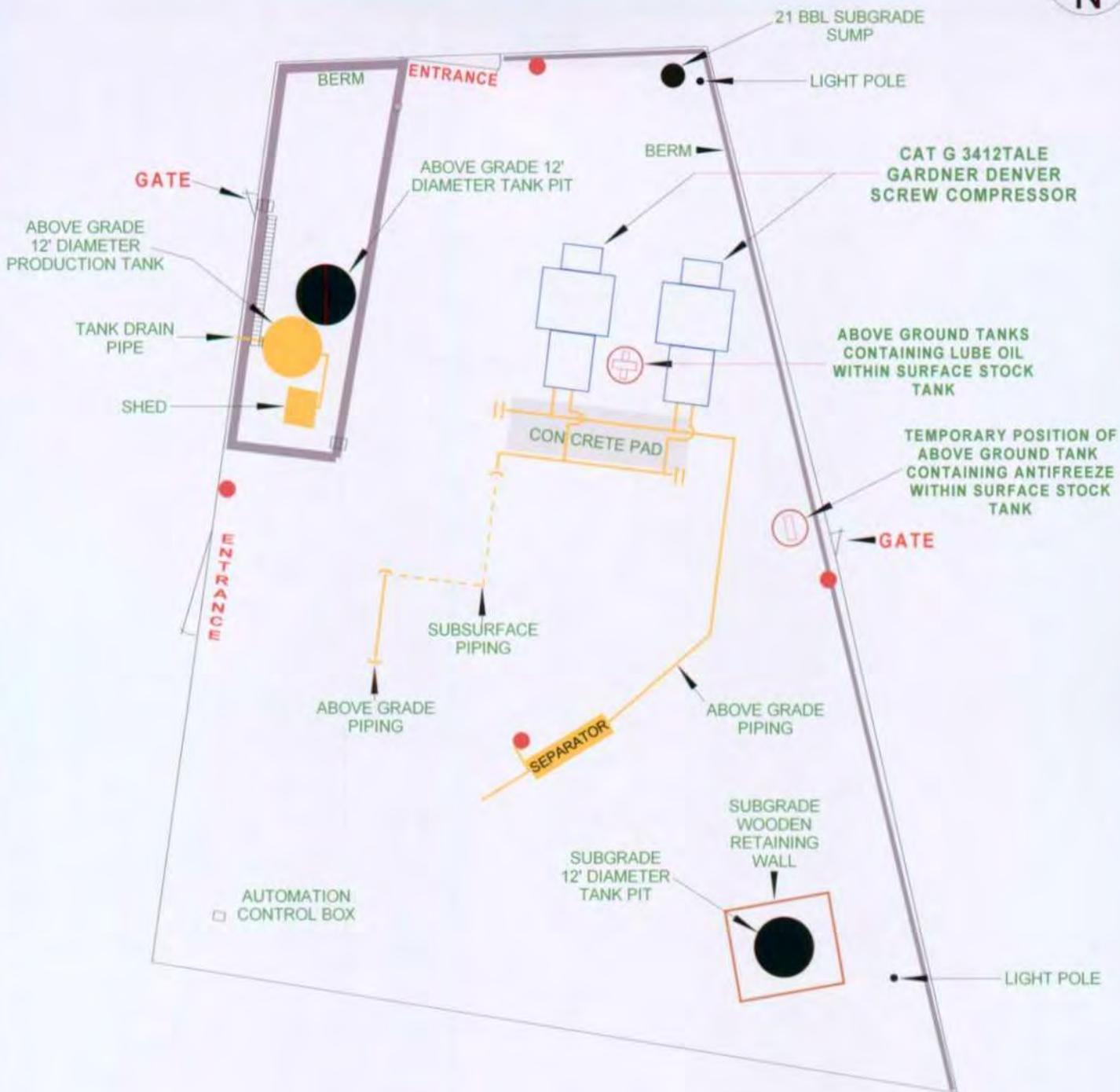
Item 12 – Geological/Hydrological Information

This item has not changed and is attached to our most recent renewal (10/31/2001).

Item 13 – Facility Closure Plan

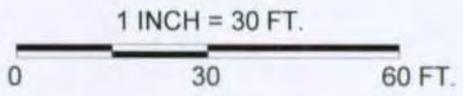
When the facility is no longer in use, the rental compressors will be removed to The Hanover Company and the tanks and steel pits will be reused at other sites. All stained soils will be remediated on site, unless the contamination is extensive, then it will be removed to our Crouch Mesa Centralized Waste Management Facility. The site will be revegetated per NMOCD and BLM guidelines and requirements.

FIGURE 1



● - INDICATES FIRE EXTINGUISHER LOCATION

SURFACE EQUIPMENT LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THEIR FOOTAGE AND BEARING (TAPE MEASURE & BRUNTON COMPASS). ALL OTHER STRUCTURES NOT LABELED ON THIS SITE MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.



BP AMOCO
 HIGHWAY 64 COMPRESSOR STATION
 SW/4 NE/4 SEC. 21, T29N, R12W, NMPM
 SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.
 CONSULTING PETROLEUM / RECLAMATION SERVICES
 P.O. BOX 87
 BLOOMFIELD, NEW MEXICO 87413
 PHONE: (505) 632-1199

PROJECT: DISCHARGE PLAN
 DRAWN BY: NJV
 FILENAME: HWY64-SM2.SKF
 REVISED: 12/12/02 NJV

SITE MAP
 12/02

 	ENVIRONMENTAL PROCEDURE SPILL CLEANUP AND REMEDIATION	Proc #: ENV-8301 Revision #: 0 Printed on: 12/19/2002
SAN JUAN OPERATIONS CENTER	AUTHORIZED ON: 06/01/00	Page 1 of 3

- SCOPE** This procedure outlines the steps to clean up and remediate spills of oil, diesel, produced water and chemicals.
- REQUIREMENTS** Cleanup personnel are required to remain in contact with the Field Environmental Coordinator (FEC).
- APPLICABLE DOCUMENTS**
- New Mexico E-Manual
 - Material Safety Data Sheets (MSDS)
- MATERIALS AND EQUIPMENT**
- Rags, pads or other absorbent materials
 - Shovels, rakes
 - Vacuum truck
 - Backhoe
 - Dump truck
- SAFETY** This is a **safety critical** procedure.
- ENVIRONMENT** This is an **environmental critical** procedure.
- QUALITY** Failure to adhere to this procedure may impact environmental policies within the WGBU and San Juan Basin.

	ENVIRONMENTAL PROCEDURE SPILL CLEANUP AND REMEDIATION	Proc #: ENV-8301 Revision #: 0 Printed on: 12/19/2002
SAN JUAN OPERATIONS CENTER	AUTHORIZED ON: 06/01/00	Page 2 of 3

PROCEDURE

1.0 PLAN THE CLEAN UP

- 1.1 Conduct an on site inspection to estimate the amount and severity of the spill.
- 1.2 Consult the Spill Cleanup and Remediation Decision Tree to decide best method of clean up.
- 1.3 Notify the One Call System, if applicable, and submit a workorder if a roustabout crew is needed to landfarm the location.
- 1.4 Contact the Analysis and Control Team to schedule a vacuum truck to recover any standing liquids.
- 1.5 Consult the FEC if specialized on site treatment (i.e. air, bug, revegetation, etc.) is needed.

2.0 CLEAN UP OF SPILLS LESS THAN ONE BARREL

NOTE: Minor spills can be left for natural attenuation with approval from the FEC.

- 2.1 Soak and clean up minor spills with absorbent pads or rags.
- 2.2 Cover contaminated soil with clean dirt.
- 3.1 Recover standing liquids for recycle and reuse.

3.0 CLEAN UP OF SPILLS MORE THAN ONE BARREL



WARNING: Ensure that One Call has been completed and locator flags are evident on location before proceeding.

- 3.2 Excavate the affected area. Landfarm the soil on the well pad or transport to the Crouch Mesa site.
- 4.0 DISPOSAL OF MATERIALS
 - 4.1 Transport rags, pads or other absorbent materials to the SJOC yard for drying.
 - 4.2 Recycle and reuse recovered chemicals.

	ENVIRONMENTAL PROCEDURE SPILL CLEANUP AND REMEDIATION	Proc #: ENV-8301 Revision #: 0 Printed on: 12/19/2002
SAN JUAN OPERATIONS CENTER	AUTHORIZED ON: 06/01/00	Page 3 of 3

- Leave for natural attenuation
- Soak up with absorbent materials
- Landfarm with clean dirt
- Consult with FEC or Team Leader to determine proper method of clean up
- Contact ACT Room to schedule vacuum truck if needed
- Notify One Call System and submit workorder if roustabout crew is needed

Consult New Mexico E-Manual for Waste Handling Requirements

- Rags, pads or other absorbent materials should be taken to the Operation Center yard to be dried out and then composted at the Crouch Mesa Central Soil Site
- Methanol, antifreeze, glycol, lube oil and diesel should be recovered and recycled by an approved vendor
- Affected soils should be composted on the well pad or transported to the Crouch Mesa Central Soil Site. Soil removal may be required by the Bureau of Land Management, New Mexico Oil Conservation Division or the Field Environmental Coordinator.

Green Day/SPCC Inspection Guidelines

Tank(s)	Visual Level Check and Float Condition/Position Where Applicable Manway Gasket – Leaks/Seeps/Stains Valves Sealed – Load, Drain and Equalize(Condensate Tanks Only) Load Line and Valve – Bulged/Warped/Cracked/Capped Drain Valve – Bulged/Warped/Cracked Vent Lines – Unobstructed Thief Hatch Gasket – Cracked or Brittle Berm Condition – Low Spots/Holes/Erosion Tank(s) and Equalize Lines - Free of Corrosion, Erosion, or Leaks Tank Foundation – Erosion, Signs of Leakage, or Deterioration
Dehy and Separator	Glycol System – Leaks/Seeps Valves (Dump and Hi/Lo) Leaks in trim or Packing Piping/Vessel – Leaks/Seeps of Fluids/Gas Open Ended Valves Plugged
Pit(s)	Visual Level Check and Float Condition/Position Excessive Oil/Condensate on Water Fencing/Netting in Good Condition and Adequate Visual for Leaks/Staining Load Line Valve Capped or Piped to Prevent Drainage
Lines	Visual for Leaks/Seeps/Staining from Fluids and Gas Open Ended Valves Plugged Lines Installed Allow for Proper Drainage (Freeze Potential)
Other	Compressor – Leaks/Seeps of Fluids and Gas Long Run Drums – Leaks/Seeps and Sight Glass Condition Engines – Leaks/Seeps/Stains of Oil or Antifreeze Pumping Unit – Stuffing Box Condition Open Ended Valves Plugged Hoses Weathered or Cracked Fences – Good Condition and Adequate Hazcom Signs/Labels are present (vessels/tanks/meter runs) and legible. Well sign at entrance of or on location and legible. Drums/Containers are labeled or correctly identified. (No mystery drums!) Drums/Totes have bungs/plugs/lids in place.
Actions	Repaired Shut in Reported (Called in or Work Order) Cleaned Up

This guideline is to be followed when performing monthly inspections.
Mark appropriate SPCC Inspection box showing that the inspection was performed.
Record any actions taken on attached exception report, and enter applicable work orders into Maximo or local spreadsheets for tracking purposes.

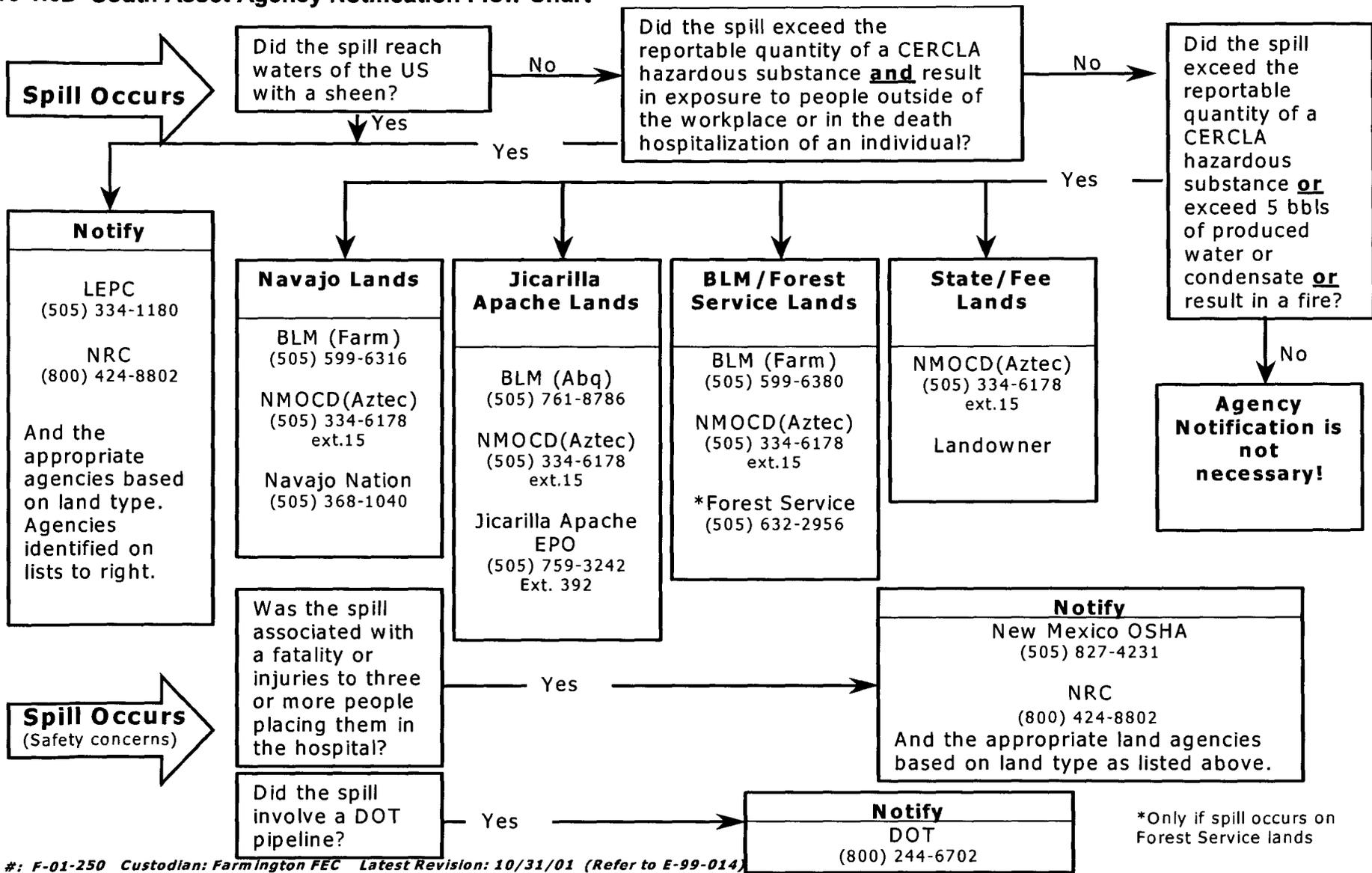
Green Day/SPCC Exception Report

List well name and action required/general comments. Piece of equipment, repaired, cleaned or work order submitted. Example: Hi/Lo valve leaking – repaired. Float not working – submitted work order, Mystery Drum on location – notified FEC, Well sign missing – notified Team Leader.

Well Name:
Action/Comments:

Name (Inspector):
Run or Area Number:
Date (Month/Year):

Figure 1.6D South Asset Agency Notification Flow Chart



Doc. #: F-01-250 Custodian: Farmington FEC Latest Revision: 10/31/01 (Refer to E-99-014)

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. [REDACTED] dated 2/28/02

or cash received on _____ in the amount of \$ 400.00

from Bp America Production

for Gallinas Canyon C.S. GW-088

Submitted by: [Signature] Date: 2/6/02

Submitted to ASD by: _____ Date: _____

Received in ASD by: _____ Date: _____

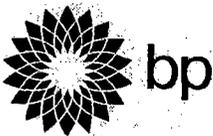
Filing Fee _____ New Facility _____ Renewal

Modification _____ Other _____

Organization Code 521.07 Applicable FY 2001

To be deposited in the Water Quality Management Fund.

Full Payment or Annual Increment _____



BP America Production Company
509 South Boston
Tulsa, OK 74103

62-20
311

CHECK NO. [REDACTED]

02/28/02

PAY TO THE
ORDER OF

NEW MEXICO OIL CONSERVATION DIV
1220 S ST FRANCIS DR
SANTA FE, NM 87505 US

*****\$400.00

NOT VALID AFTER 6 MONTHS

Four hundred and 00/100 Dollars.

TRACE NUMBER: 2000002803

[Signature]
Authorized Signature



AFFIDAVIT OF PUBLICATION

Ad No. 45523

**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 meeting of Chapter 167 of the 1937 Session Laws of the State of New Mexico for publication on the following day(s):
Thursday, January 10, 2002.

And the cost of the publication is \$81.20

Connie Pruitt

ON 1-14-02 CONNIE PRUITT appeared before me, whom I know personally to be the person who signed the above document.

Jimmy Beck
My Commission Expires April 2, 2004.

918

Legals

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, 1220 SOUTH ST. FRANCIS DRIVE, SANTA FE, NEW MEXICO 87505, TELEPHONE (505) 476-3440:

(GW-088) - AMOCO PRODUCTION COMPANY, MR. BUDDY SHAW, 200 ENERGY COURT, FARMINGTON, NEW MEXICO 87401 HAS SUBMITTED AN APPLICATION FOR THEIR GALLEGOS CANYON COMPRESSOR STATION LOCATED IN THE SW/4 NE/4 OF SECTION 21, TOWNSHIP 29 NORTH, RANGE 12 WEST, SAN JUAN COUNTY, NEW MEXICO. APPROXIMATELY 2800 GALLONS PER DAY OF WASTE WATER WILL BE STORED IN AN ABOVE GRADE STEEL TANK PRIOR TO TRANSPORT TO AN OCD APPROVED OFFSITE CLASS II DISPOSAL WELL. GROUND WATER MOST LIKELY TO BE AFFECTED IN THE EVENT OF AN ACCIDENTAL DISCHARGE AT THE SURFACE IS AT A DEPTH OF APPROXIMATELY 200 FEET WITH A TOTAL DISSOLVED SOLIDS CONCENTRATION OF APPROXIMATELY 1000 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 7TH DAY OF DECEMBER 2001.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

SEAL

LORI WROTENBERY,
DIRECTOR

Legal No. 45523, published in The Daily Times, Farmington, New Mexico, Thursday, January 10, 2002.

AFFIDAVIT OF PUBLICATION

Ad No. 45523

**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 meeting of Chapter 167 of the 1937 Session Laws of the State of New Mexico for publication on the following day(s):
Thursday, January 10, 2002.

And the cost of the publication is \$81.20

Connie Pruitt

ON 1-14-02 CONNIE PRUITT appeared before me, whom I know personally to be the person who signed the above document.

Jimmy Beck
My Commission Expires April 2, 2004.

NOTICE OF PUBLICATION

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

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(GW-088) - AMOCO PRODUCTION COMPANY, MR. BUDDY SHAW, 200 ENERGY COURT, FARMINGTON, NEW MEXICO 87401 HAS SUBMITTED AN APPLICATION FOR THEIR GALLEGOS CANYON COMPRESSOR STATION LOCATED IN THE SW/4 NE/4 OF SECTION 21, TOWNSHIP 29 NORTH, RANGE 12 WEST, SAN JUAN COUNTY, NEW MEXICO. APPROXIMATELY 2800 GALLONS PER DAY OF WASTE WATER WILL BE STORED IN AN ABOVE GRADE STEEL TANK PRIOR TO TRANSPORT TO AN OCD APPROVED OFFSITE CLASS II DISPOSAL WELL. GROUND WATER MOST LIKELY TO BE AFFECTED IN THE EVENT OF AN ACCIDENTAL DISCHARGE AT THE SURFACE IS AT A DEPTH OF APPROXIMATELY 200 FEET WITH A TOTAL DISSOLVED SOLIDS CONCENTRATION OF APPROXIMATELY 1000 MG/L. THE DISCHARGE PLAN ADDRESSES HOW SPILLS, LEAKS, AND OTHER ACCIDENTAL DISCHARGES TO THE SURFACE WILL BE MANAGED.

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GIVEN UNDER THE SEAL OF NEW MEXICO OIL CONSERVATION COMMISSION AT SANTA FE, NEW MEXICO, ON THIS 7TH DAY OF DECEMBER 2001.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

SEAL

LORI WROTENBERY,
DIRECTOR

**NOTICE OF
PUBLICATION**

**STATE OF NEW MEXICO
ENERGY, MINERALS
AND NATURAL RE-
SOURCE DEPARTMENT
OIL CONSERVATION DI-
VISION**

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, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3440: **(GW-088) - Amoco Production Company, Mr.**

Buddy Shaw, 200 Energy Court, Farmington, New Mexico 87401 has submitted an application for their Gallegos Canyon Compressor Station located in the SW/4 NE/4 of Section 21, Township 29 North, Range 12 West, San Juan County, New Mexico. Approximately 2800 gallons per day of waste water will be stored in an above grade steel tank prior to transport to an OCD approved offsite Class II disposal well. Ground water most likely to be affected in the event of an accidental discharge at the surface is at a depth of approximately 200 feet with a total dissolved solids concentration of approximately 1000 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 7th day of December 2001.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

S E A L
LORI WROTENBERY, Director

~~Legal #70989~~
Pub. January 15, 2002

**NOTICE OF
PUBLICATION**

**STATE OF NEW MEXICO
ENERGY, MINERALS
AND NATURAL RE-
SOURCE DEPARTMENT
OIL CONSERVATION DI-
VISION**

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Buddy Shaw, 200 Energy Court, Farmington, New Mexico 87401 has submitted an application for their Gallegos Canyon Compressor Station located in the SW/4 NE/4 of Section 21, Township 29 North, Range 12 West, San Juan County, New Mexico. Approximately 2800 gallons per day of waste water will be stored in an above grade steel tank prior to transport to an OCD approved offsite Class II disposal well. Ground water most likely to be affected in the event of an accidental discharge at the surface is at a depth of approximately 200 feet with a total dissolved solids concentration of approximately 1000 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 7th day of December 2001.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

S E A L
LORI WROTENBERY, Director
Legal #70989
Pub. January 15, 2002

Ford, Jack

From: Martin, Ed
Sent: Tuesday, January 08, 2002 8:18 AM
To: Bruce S. Garber; Chris Shuey; Colin Adams; Director, State Parks; Gerald R. Zimmerman; Jack A. Barnett; James Bearzi; Jay Lazarus; Lee Wilson & Associates; Marcy Leavitt; Mike Matush; Mike Schultz; Ned Kendrick; Regional Forester; Ron Dutton; Secretary, NMED
Cc: Ford, Jack
Subject: Discharge Plan Renewal



Publ. Notice
GW-088.doc

Ed Martin
New Mexico Oil Conservation Division
Environmental Bureau
1220 S. St. Francis
Santa Fe, NM 87505

Ford, Jack

From: Martin, Ed
Sent: Tuesday, January 08, 2002 8:13 AM
To: Farmington Daily Times (E-mail)
Cc: Ford, Jack
Subject: Legal Notice

Please publish the attached legal notice, one time only, on or before Tuesday, January 15, 2002.

Upon publication, send to this office:

1. Publisher's affidavit
2. Invoice. Our purchase order number is **02199000251**

If you have any questions, please contact me via e-mail or phone (505) 476-3492.

Thank you.



Publ. Notice
GW-088.doc

Ford, Jack

From: Martin, Ed
Sent: Tuesday, January 08, 2002 8:10 AM
To: Santa Fe New Mexican (E-mail)
Cc: Ford, Jack
Subject: Legal Notice

Please publish the attached legal notice, one time only, on or before Tuesday, January 15, 2002.

Upon publication, send to this office:

1. Publisher's affidavit
2. Invoice. Our purchase order number is **02199000249**

If you have any questions please contact me via e-mail or phone (505) 476-3492.

Thank you.



Publ. Notice
GW-088.doc

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, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

(GW-088) – Amoco Production Company, Mr. Buddy Shaw, 200 Energy Court, Farmington, New Mexico 87401 has submitted an application for their Gallegos Canyon Compressor Station located in the SW/4 NE/4 of Section 21, Township 29 North, Range 12 West, San Juan County, New Mexico. Approximately 2800 gallons per day of waste water will be stored in an above grade steel tank prior to transport to an OCD approved offsite Class II disposal well. Ground water most likely to be affected in the event of an accidental discharge at the surface is at a depth of approximately 200 feet with a total dissolved solids concentration of approximately 1000 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 7th day of December 2001.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION



LORI WROTENBERY, Director

S E A L

Ford, Jack

From: Ford, Jack
Sent: Friday, December 07, 2001 10:17 AM
To: Martin, Ed
Subject: Public Notice for GW-088



GW088PUB.DOC

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. [redacted] dated 11/15/01
or cash received on _____ in the amount of \$ 100.00
from BP

for Gallegos Canyon C.S. 610-088
(Facility Name)

Submitted by: [Signature] Date: 12/6/01
(Signature) (DP No.)

Submitted to ASD by: _____ Date: _____

Received in ASD by: _____ Date: _____

Filing Fee New Facility _____ Renewal _____
Modification _____ Other _____
(Agency)

Organization Code 521.07 Applicable FY 2001

To be deposited in the Water Quality Management Fund.

Full Payment or Annual Increment _____



Amoco Production Company
509 South Boston
Tulsa, OK 74103

62-20
311

CHECK NO. [redacted]

PAY TO THE
ORDER OF

NEW MEXICO OIL CONSERVATION DIV
1220 S ST FRANCIS DR
SANTA FE, NM 87505 US

11/15/01

*****\$100.00
NOT VALID AFTER 6 MONTHS

One hundred and 00/100 Dollars

TRACE NUMBER: 2000184105

[Signature]
Authorized Signature

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



District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Revised January 24, 2001

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

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

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

New Renewal Modification

62-088

1. Type: Compressor Station (Gallegos Canyon)
2. Operator: Amoco Production Company
- Address: 200 Energy Court Farmington 87401
- Contact Person: Buddy Shaw Phone: 326-9219
3. Location: SW /4 NE /4 Section 21 Township 29N Range 12W
Submit large scale topographic map showing exact location.

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 location of fences, pits, dikes and tanks on the facility.
6. Attach a description of all materials stored or used at the facility.
7. Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste water must be included.
8. Attach a description of current liquid and solid waste collection/treatment/disposal procedures.
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 information 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 OCD 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: Buddy Shaw

Title: Enviro. Coordinator

Signature: Buddy Shaw

Date: 10-30-01



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

July 9, 2001

Lori Wrotenbery
Director
Oil Conservation Division

CERTIFIED MAIL
RETURN RECEIPT NO. 5051 0678

Mr. Buddy Shaw
bp Amoco Production Company
200 Amoco Court
Farmington, New Mexico 87401

**RE: Discharge Plan GW-088 Renewal
Gallegos Canyon Compressor Station
San Juan County, New Mexico**

Dear Mr. Shaw:

On January 16, 1997, the groundwater discharge plan , GW-088, for the bp Amoco Production Company Gallegos Canyon Compressor Station located in the SW/4 NE/4 of Section 21, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico, was approved by the Director of the New Mexico Oil Conservation Division (OCD). This discharge plan renewal was required and submitted pursuant to Water Quality Control Commission (WQCC) regulations and was approved for a period of five years. **The approval will expire on January 16, 2002.**

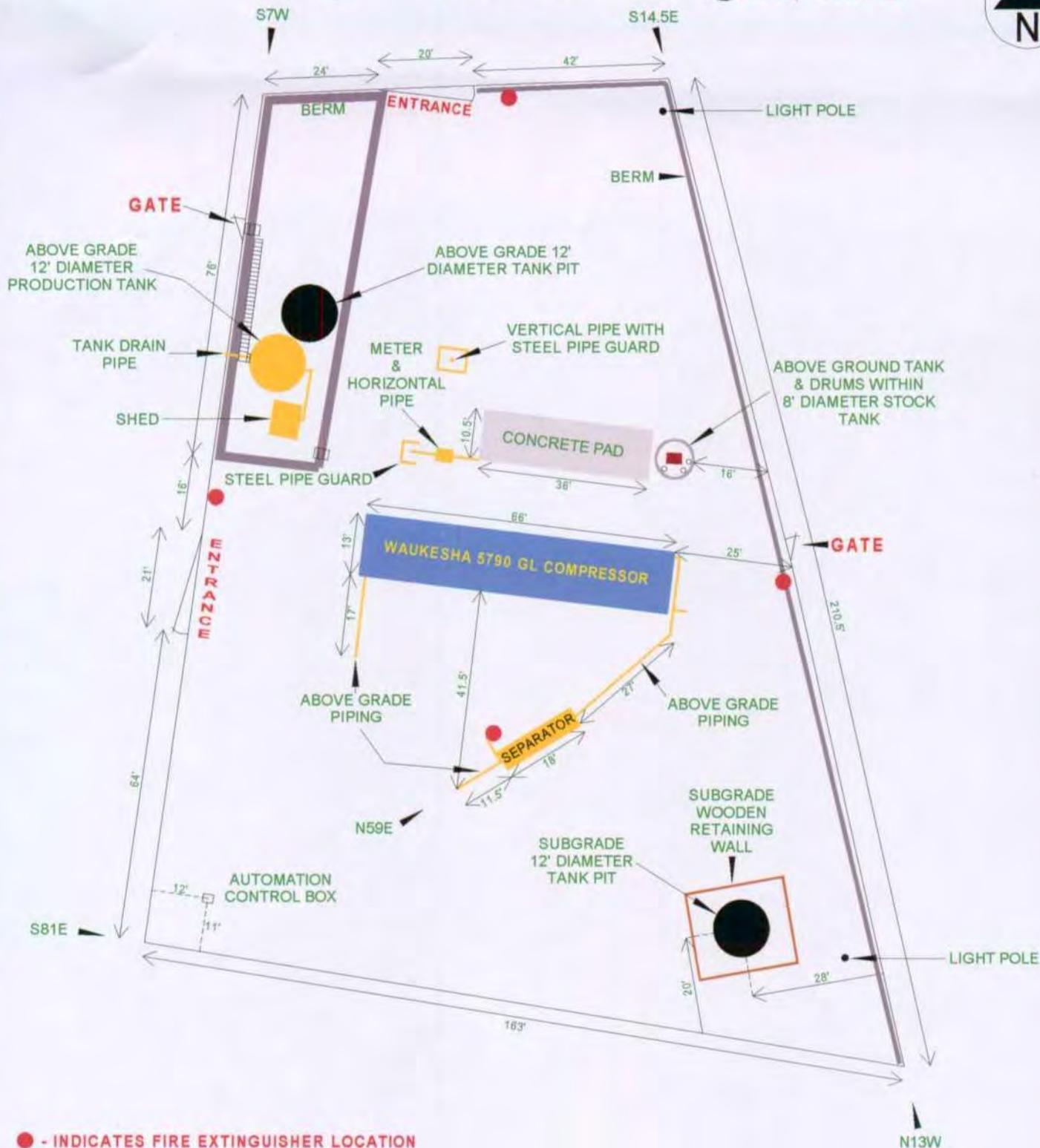
If the facility continues to have potential or actual effluent or leachate discharges and wishes to continue operation, the discharge plan must be renewed. **Pursuant to Section 3106.F., if an application for renewal is submitted at least 120 days before the discharge plan expires, then the existing approved discharge plan for the same activity shall not expire until the application for renewal has been approved or disapproved.** The OCD is reviewing discharge plan submittals and renewals carefully and the review time can extend for several weeks to months. Please indicate whether Bp Amoco Production Company has made or intends to make, any changes in the system, and if so, please include these modifications in the application for renewal.

The discharge plan renewal application for the **Gallegos Canyon Compressor Station** is subject to WQCC Regulation 3114. Every billable facility submitting a discharge plan renewal will be assessed a fee equal to the filing fee of \$100.00 plus a flat fee equal to \$400.00 for compressor stations with horsepower less than 1000 horsepower. The \$100.00 filing fee is to be submitted with the discharge plan renewal application and is nonrefundable.

- Item 4 BLM
1235 La Plata Hwy
Farmington, NM87401
- Item 5 Attached
- Item 6 Materials Stored/Used:
Lube Oil 200 Gallons
Line Drip-Produced Water/Oil Emulsion 300 Barrels
- Item 7 All Produced Water Discharges go to the GCU #13-1 via pipeline. Compressor scrubber liquids go to bad oil facilities GCU #259, 306, or 328.
- Item 8 Liquid wastes are collected in steel pits/tanks and transferred to bad oil facilities GCU #259, 306, or 328. Solid wastes are composted on site(soils).
- Item 9 No modifications are planned!
- Item 10 CSI maintains the site and inspections/maintenance occur every three days or as needed.
- Item 11 All spills 5bbls. + will be reported to the NMOCD. Any spill amount that leaves the site will be reported to the NMOCD. All spills will be remediated on site.
- Item 12 Attached
- Item 13 Closure Plan-When this facility is not needed, the equipment will be removed and all stained soils will be remediated on site. After soils are remediated, the site will be revegetated per NMOCD/BLM requirements.

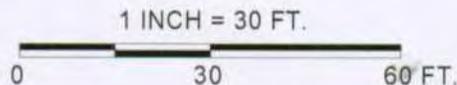
FIGURE 1

Item 5



● - INDICATES FIRE EXTINGUISHER LOCATION

SURFACE EQUIPMENT LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THEIR FOOTAGE AND BEARING (TAPE MEASURE & BRUNTON COMPASS). ALL OTHER STRUCTURES NOT LABELED ON THIS SITE MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.



BP AMOCO
HIGHWAY 64 COMPRESSOR STATION
SW/4 NE/4 SEC. 21, T29N, R12W, NMPM
SAN JUAN COUNTY, NEW MEXICO

B LAGG ENGINEERING, I NC.
CONSULTING PETROLEUM / RECLAMATION SERVICES
P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413
PHONE: (505) 632-1199

PROJECT: DISCHARGE PLAN
DRAWN BY: NJV
FILENAME: HWY64-SM,SKF
DRAWN: 10/04/01 NJV

SITE
MAP
10/01



GGEOWEST
Golden, Inc.

Item 12

April 16, 1992

Mr. Dave Brown
Amoco Production Company
Environmental Affairs
1670 Broadway
Room 844
Denver, CO 80201

DRAFT

**RE: ASSESSMENT OF PROPOSED AMOCO COMPOSTING SITE
SAN JUAN COUNTY, NEW MEXICO**

Dear Mr. Brown:

GeoWest Golden, Inc. (GeoWest) has completed an assessment of a proposed Amoco composting site located east of Farmington, New Mexico in San Juan County, as you requested. The assessment consisted of:

- A site inspection;
- Discussions with Mr. Buddy Shaw of Amoco regarding former and proposed operations at the site;
- Drilling of five soil borings;
- Collection of one surface soil grab sample at each soil boring location, and laboratory analysis of three of the grab samples for selected parameters;
- Collection of one soil sample at each soil boring location with a California Sampler, and geotechnical testing of three of the soil samples;
- A review of New Mexico composting regulations.

The focus of the investigation was to assess the potential for environmental impact resulting from proposed composting operations at the site. The general location of the site is shown in Figure 1, and a site map is shown in Figure 2.

9203.01vplbrl20302scs.rtf#de

BACKGROUND

The proposed composting site is a 400' x 250' parcel of land out of a 10-acre tract in the SW 1/4 of the SE 1/4 of Section 2, T29N, R12W, San Juan County, New Mexico. The site is located approximately five miles east of Farmington, New Mexico in an area referred to as Crouch Mesa. The surrounding property is undeveloped.

According to Mr. Buddy Shaw of Amoco, the proposed composting site has been enlarged from an original 1-acre area at the east end of the site that had previously been used to stockpile horse manure over a period of approximately three years. The manure has been removed and stockpiled on the north and east sides of the site, as shown in Figure 2. The southeast section of the site has been backfilled with native surface material from areas adjacent to the site, and the remaining sections have been cleared and graded. The site slopes to the southeast at a rate of approximately 2.5 feet per 100 feet.

A natural depression, approximately 5 feet deep at its south end, is located at the southeast corner of the proposed composting site, as shown in Figure 2. According to Mr. Shaw, this depression will serve as a catch basin for any runoff produced in the composting area during rainstorms. The south and east sides of the composting area will be bermed to divert runoff into the catch basin.

Two dirt service roads border the north and south sides of the composting area. An area on the north side of the north service road, as shown in Figure 2, has been cleared and graded level for use as a future staging area for mixing and processing compost materials prior to application of compost piles in the proposed composting area.

GEOLOGY AND HYDROGEOLOGY

The land surface in the vicinity of the site generally slopes to the southeast, and is comprised of rolling hills sparsely vegetated with pinion trees. The site is located near the drainage divide between the Animas River and San Juan River drainage basins at an elevation of approximately 5,850 feet above mean sea level. The beginning of an unnamed ephemeral watercourse is located approximately 1,000 feet southeast of the site. The climate is arid to semiarid, with an annual precipitation of approximately 9 inches. Almost half of the annual precipitation occurs from the months of July through October. Annual class A pan evaporation near Farmington averages over 67 inches (Brown and Stone, 1979).

The subsurface strata underlying the site consist mostly of alternating layers of clayey, silty sands and weathered sandstone of the Tertiary San Jose Formation. This formation has been characterized as conglomeratic sandstone and mudstone (Brown and Stone, 1979).

No known water wells have been drilled within a one quarter mile radius of the site. A total of eight wells for obtaining drilling water were completed in the San Jose Formation east of the site at depths of 118 to 585 feet below ground surface (bgs) during the 1950's. Ground water in the San Jose Formation exists under confined conditions in thick sandstone units (Brown and Stone, 1979). An unconfined shallow aquifer has not been identified in the Crouch Mesa area. Therefore, there is low potential for the occurrence of usable ground water resources in the vicinity of the proposed composting site.

SOIL BORING RESULTS

Five soil borings were drilled by Western Technologies Inc. of Farmington, New Mexico at the locations shown in Figure 2. Surface soil grab samples were also collected adjacent to each soil boring location. A 7-Inch O.D. hollow stem auger was used to drill the soil borings. A California Sampler was used to collect a soil sample at the 4 to 8-inch depth interval in each boring. Split spoon samples were then collected at 5-foot intervals.

Grab samples of surface soils collected at locations SB-2, SB-3, and SB-4 were submitted to Evergreen Analytical Laboratories of Wheat Ridge, Colorado for analysis of Skinner list metals, specific conductance, chloride and sulfate. Analytical results are provided in Attachment 1 and are summarized in Table 1.

Analytical results for the surface grab samples indicate low concentrations of barium, cobalt, copper, and nickel were detected at all three boring locations. The other nine metals analyzed were not detected. All detected metals concentrations are below the range of concentrations reported for natural soils (USGS Prof. Paper No. 574-F). The chloride concentrations detected in the grab samples were all below the average chloride level of 100 mg/Kg reported for natural soils (EPA SW-874). There are no known average sulfate or specific conductance values reported for natural soils.

Samples collected with the California sampler at the 4 to 8-inch depth interval from borings SB-2, SB-3, and SB-4 were submitted to Western Technologies for a sieve analysis and testing of vertical permeability, dry density, and moisture content. Test results are provided in Attachment 2 and are summarized in Table 2. Split spoon samples were examined by GeoWest personnel and described. Drilling logs for the borings are provided in Attachment 3.

In general, a sequence of alternating weathered sandstone and stiff clayey and silty sand strata was encountered in all borings. The borings were terminated at depths of less than 15 feet bgs due to penetration refusal by the drill bit when a fine-grained sandstone was encountered.

Soil Boring SB-1

Soil boring SB-1 is located in the southeast section of the composting site, in an area that had been backfilled with approximately 2 to 3 feet of uncompacted surface soils from areas adjacent to the site. Stockpiled horse manure in this area had been scraped off prior to backfilling. A soil sample collected at the 4 to 8-inch depth interval with the California Sampler was composed of silty fine- to medium-grained sand. Refusal was encountered at a depth of 14 feet bgs at the top of a fine-grained sandstone. No samples from this boring were submitted for analysis or testing.

Soil Boring SB-2

Soil boring SB-2 is located in the northeastern section of the site. Stockpiled manure in this area had been scraped off during the site preparation activities, but small visible patches of residual manure were observed on the surface. A surface soil grab sample was collected near the boring and submitted for analysis. A soil sample was collected at the 4 to 8-inch depth interval with the California Sampler and tested for physical properties. Refusal was encountered at a depth of 12.5 feet bgs at the top of a fine-grained sandstone.

Test results for physical properties of the weathered sandstone sample collected from SB-2 with the California Sampler indicate that it is a fine-grained sandstone, based on the Unified Soil Classification System (USCS), with a moderate permeability and low moisture content. The moderate permeability of the sandstone is most likely a function of secondary porosity resulting from chemical and physical weathering of the sandstone.

Soil Boring SB-3

Soil boring SB-3 is located in an undisturbed area in the center of the site. Surface soil conditions in the vicinity of this boring are most likely indicative of native conditions. A surface soil grab sample was collected near the boring and submitted for analysis. A soil sample was collected at the 4 to 8-inch depth interval with the California Sampler and tested for physical properties. Refusal was encountered at a depth of 11.5 feet bgs at the top of a fine-grained sandstone.

Test results for physical properties of the sample collected from SB-3 with the California Sampler indicate that it is a fine-grained sand, based on the USCS, with a low permeability and low moisture content. However, the low permeability (3.0×10^{-6} cm/sec) measured in this sample and examination of it indicate that this soil is very dense and contains a significant amount of fines, including silt and clay. This fine-grained soil was also encountered at various depths in borings SB-1, SB-2, SB-4, and SB-5.

Soil Boring SB-4

Soil boring SB-4 is located in the southwest section of the site where tree removal and some grading had occurred. Surface soils in the vicinity of this boring had been slightly compacted by earth-moving equipment. A surface soil grab sample was collected near the boring and submitted for analysis. A soil sample was collected at the 4 to 8-inch depth interval with the California Sampler and tested for physical properties. Refusal was encountered at a depth of 11.5 feet bgs at the top of a fine-grained sandstone.

Test results for physical properties of the sample collected from SB-4 with the California Sampler indicate that it is a silty fine- to medium-grained sand with a moderate permeability and low moisture content.

Soil Boring SB-5

Soil boring SB-5 is located in the northwest section of the site. Surface conditions were very similar to those observed in the vicinity of boring SB-4. A soil sample collected at the 4 to 8-inch depth interval with the California Sampler was composed of silty fine- to medium-grained sand. Refusal was encountered at a depth of 10 feet bgs at the top of a fine-grained sandstone. No samples from this boring were submitted for analysis or testing.

Mr. Dave Brown
April 16, 1992

Page 8 of 8

- A reinforced concrete pad with containment is recommended in the proposed processing area on the north side of the site in order to prevent percolation of free liquids into the ground during mixing of the compost.
- Prior to application of a batch of the compost mix to the unlined composting area, the batch should pass a Paint Filter Liquids Test (EPA Method SW-846 9095) in order to minimize runoff and percolation of free liquids from the composting pile. A copy of the Paint Filter Test method is provided in Attachment 5.

Minimization of impacts to soils and ground water is dependent on mixing the compost in a controlled area and providing quality assurance control procedures that require materials placed in the composting area have no drainable free liquids.

We appreciate the opportunity to work with Amoco on this project. If you have any questions or need further information, please contact the undersigned.

Sincerely,
GeoWest Golden, Inc.

Andrew D. Eyer
Project Manager

William R. Highland, P.E.

attachments

o o o

Conditions observed during the assessment of the proposed composting site and results of the analysis and testing of physical properties of soils indicate that the site should be suitable for proposed composting operations. Laterally continuous fine-grained strata underlying the site at shallow depths will serve as effective low-permeability barriers to vertical migration of liquids that may percolate downward from the compost pile, so that an artificial liner across the composting site should not be required. Runoff from the composting site during rainstorms will be controlled by diversion berms and a collection basin located at the southeast corner of the site. The size of the collection basin is large enough to handle runoff from a 25-year, 6-hour storm.

There is low potential for environmental impact from proposed composting operations at the site due to the remoteness of the site. No shallow ground water aquifers have been identified in the vicinity of the site. The uppermost aquifer identified in the area is a confined aquifer in the San Juan sandstone at a depth of more than 100 feet bgs. There are also no perennial watercourses, water wells, or residences in the immediate vicinity of the site. Analysis of surface soil samples collected from the composting area does not indicate significant levels of constituents in the soil that would potentially impact the environment.

In order to maintain a low potential for environmental impact at the site and assure compliance with state and federal regulations, we recommend the following:

- The composting operations should be conducted in accordance with composting regulations included in the New Mexico Solid Waste Management Regulations promulgated by the New Mexico Environmental Department. Pertinent regulations from the Solid Waste Management Regulations regarding composting are provided in Attachment 4.

TABLE 1

ANALYTICAL RESULTS FOR GRAB SAMPLES OF SURFACE SOILS

(All values reported in mg/Kg, unless noted otherwise)

Parameter	Sample ID			Detection Limit	Range Detected in Natural Western U.S. Soils
	SB-2	SB-3	SB-4		
Specific Conductance (µmhos/cm)	> 5000	309	2060	NA	NA
Chloride	94.3	13.9	12.1	NA	NA
Sulfate	1490	11.0	826	NA	NA
Antimony	ND	ND	ND	5	<150 - 500
Arsenic	ND	ND	ND	11	<0.2 - 97
Barium	76	86	140	0.4	70 - 5000
Beryllium	ND	ND	ND	1	<1 - 7
Cadmium	ND	ND	ND	0.8	<1 - 10
Chromium	ND	ND	ND	1.4	3 - 1500
Cobalt	5	6	4	2	<3 - 50
Copper	4.7	5.2	3.8	1.2	2 - 300
Lead	ND	ND	ND	8	<7 - 700
Mercury	ND	ND	ND	0.1	<0.01 - 4.6
Nickel	7	9	7	4	<3 - 700
Selenium	ND	ND	ND	15	<0.1 - 1.4
Vanadium	ND	ND	ND	2	7 - 500

Notes:

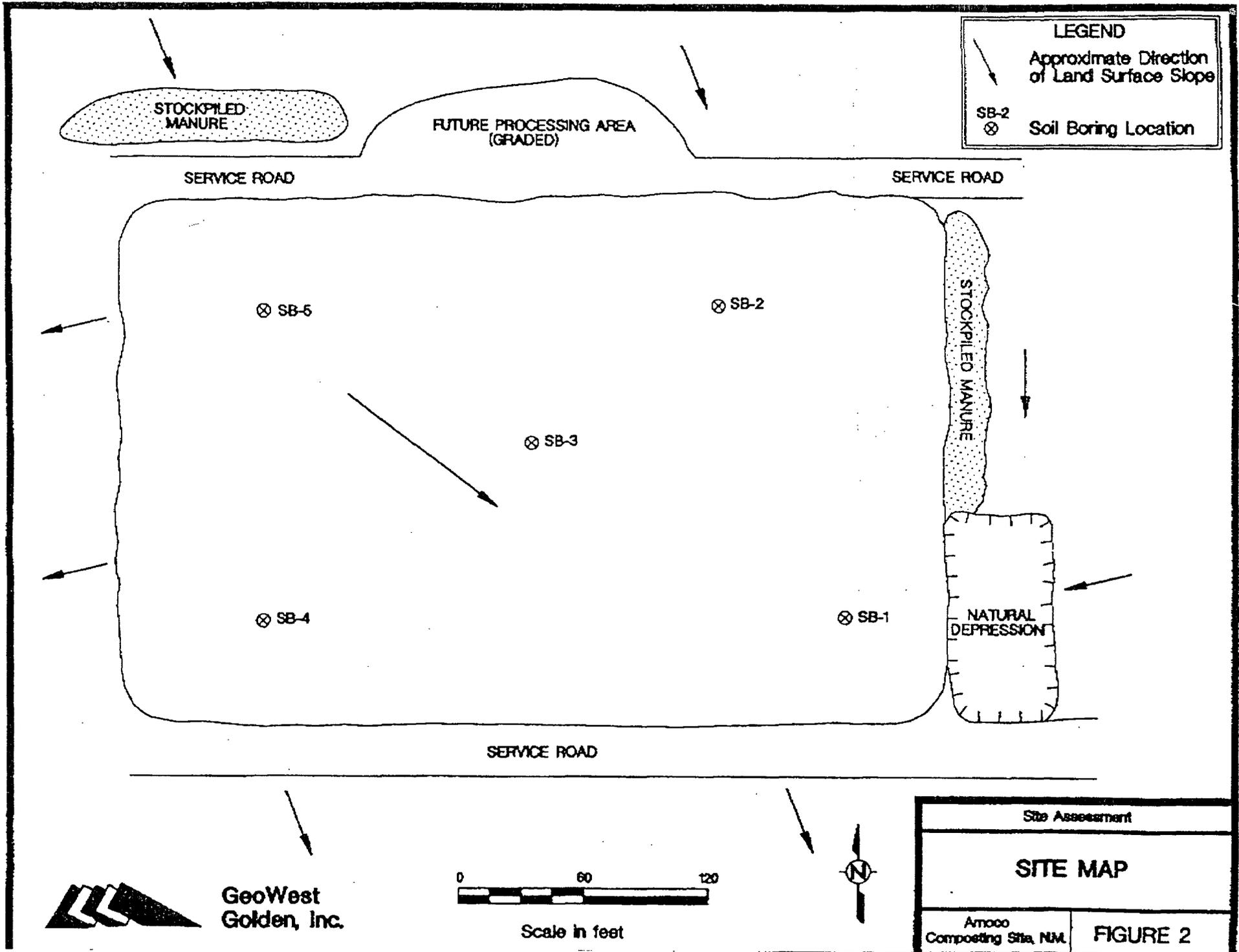
- 1) Samples collected April 4, 1992
- 2) NA = Not Available
- 3) ND = Not Detected
- 4) Specific Conductance Measurement Method: U.S. Department of Agriculture Handbook No. 60, p.89
- 5) Chloride and Sulfate Analysis Method: EPA 300.0
- 6) Skinner List Metals Analysis Method: SW-846
- 7) Natural Soil Ranges for Western U.S. soils from USGS Professional Paper No. 574-F

TABLE 2
PHYSICAL PROPERTIES OF SOIL SAMPLES

<u>Physical Property</u>	<u>SAMPLE ID</u>		
	<u>SB-2</u>	<u>SB-3</u>	<u>SB-4</u>
Coefficient of Permeability (cm/sec)	1.4 X 10 ⁻⁴	3.0 X 10 ⁻⁴	3.0 X 10 ⁻⁴
In-Situ Dry Density (pcf)	112	115	110
In-Situ Moisture Content (%)	7.1	11.2	9.4
Grain Size Based on Sieve Analysis	Fine Sand	Fine Sand	Fine/Medium Sand

Note:

- 1) Samples were collected with California Sampler on April 4, 1992 at a depth of 4 to 8 inches below ground surface.
- 2) Sample SB-2 was weathered sandstone.
- 3) Grain size classification based on Unified Soil Classification System.



LEGEND

Approximate Direction of Land Surface Slope

SB-2



Soil Boring Location

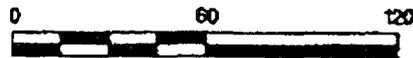
Site Assessment

SITE MAP

Arcoo
Composting Site, NM.

FIGURE 2

GeoWest
Golden, Inc.



Scale in feet





NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor

Jennifer A. Salisbury

Cabinet Secretary

July 9, 2001

Lori Wrotenbery

Director

Oil Conservation Division

CERTIFIED MAIL

RETURN RECEIPT NO. 5051 0678

Mr. Buddy Shaw
bp Amoco Production Company
200 Amoco Court
Farmington, New Mexico 87401

**RE: Discharge Plan GW-088 Renewal
Gallegos Canyon Compressor Station
San Juan County, New Mexico**

Dear Mr. Shaw:

On January 16, 1997, the groundwater discharge plan , GW-088, for the bp Amoco Production Company Gallegos Canyon Compressor Station located in the SW/4 NE/4 of Section 21, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico, was approved by the Director of the New Mexico Oil Conservation Division (OCD). This discharge plan renewal was required and submitted pursuant to Water Quality Control Commission (WQCC) regulations and was approved for a period of five years. **The approval will expire on January 16, 2002.**

If the facility continues to have potential or actual effluent or leachate discharges and wishes to continue operation, the discharge plan must be renewed. **Pursuant to Section 3106.F., if an application for renewal is submitted at least 120 days before the discharge plan expires, then the existing approved discharge plan for the same activity shall not expire until the application for renewal has been approved or disapproved.** The OCD is reviewing discharge plan submittals and renewals carefully and the review time can extend for several weeks to months. Please indicate whether Bp Amoco Production Company has made or intends to make, any changes in the system, and if so, please include these modifications in the application for renewal.

The discharge plan renewal application for the **Gallegos Canyon Compressor Station** is subject to WQCC Regulation 3114. Every billable facility submitting a discharge plan renewal will be assessed a fee equal to the filing fee of \$100.00 plus a flat fee equal to \$400.00 for compressor stations with horsepower less than 1000 horsepower. The \$100.00 filing fee is to be submitted with the discharge plan renewal application and is nonrefundable.

Mr. Buddy Shaw
July 9, 2001
Page 2

Please make all checks payable to: **NMED-Water Quality Management** and addressed to the OCD Santa Fe Office. Please submit the original discharge plan renewal application and one copy to the OCD Santa Fe Office and one copy to the OCD Aztec District Office. **Note that the completed and signed application form must be submitted with your discharge plan renewal request.** (Copies of the WQCC regulations and discharge plan application form and guidelines are enclosed to aid you in preparing the renewal application. A complete copy of the regulations is also available on OCD's website at www.emnrd.state.nm.us/ocd/).

If the Gallegos Canyon Compressor Station no longer has any actual or potential discharges and a discharge plan is not needed, please notify this office. If the bp Amoco Production Company Company has any questions, please do not hesitate to contact Mr. W. Jack Ford at (505) 476-3489.

Sincerely,



Roger C. Anderson
Chief, Environmental Bureau
Oil Conservation Division

RCA/wjf

cc: OCD Aztec District Office

U.S. Postal Service CERTIFIED MAIL RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
Article Sent To:	
7099 3220 0000 5051 0676	
Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$
Postmark Mesa	
Name (Please Print Clearly) (To be completed by Mailer) B. Shaw	
Street, Apt. No., or PO Box No. bp Amoco	
City, State, ZIP+ 4 GW-088	
PS Form 3800, July 1999 See Reverse for Instructions	

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. [redacted] dated 1/23/97,
or cash received on _____ in the amount of \$ 345.00
from Amoco

for Gallegos Canyon C.S. GW-088
(Facility Name) (DP No.)

Submitted by: _____ Date: _____

Submitted to ASD by: R. Anderson Date: 3/19/97

Received in ASD by: _____ Date: _____

Filing Fee _____ New Facility _____ Renewal
Modification _____ Other _____
(Specialty)

Organization Code 521.07 Applicable FY 97

To be deposited in the Water Quality Management Fund.
Full Payment or Annual Increment _____

IOCO PRODUCTION COMPANY
SA, OKLAHOMA
San Juan Operations Center Location January 23, 19 97 No. [redacted]
m 587 May 86 No Protest At Sight

Pay To The Order of New Mexico Environmental Division - Water Quality Mgt. \$ 345.00
PROPERLY ENDORSE THIS ITEM AND NEGOTIATE AS A CHECK
Three Hundred Forty-Five and No/100 Dollars

Payment of Discharge Plan GW-088 Renewal, Gallegos Canyon Compressor Station (Highway 64).

PAYABLE THROUGH
The First National Bank and Trust Company
Tulsa, Oklahoma

86-1
1039 }

J. Ryan Abbott





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

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

P 288 258 895

January 22, 1997

CERTIFIED MAIL
RETURN RECEIPT NO. P-288-258-895

Mr. Buddy Shaw
Amoco Production Company
200 Amoco Court
Farmington, NM 87401

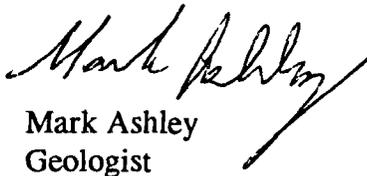
**RE: Discharge Plan GW-088
Gallegos Canyon Compressor Station
San Juan County, New Mexico**

Dear Mr. Shaw:

In the New Mexico Oil Conservation Division approval letter date January 16, 1997 it was incorrectly stated that Amoco Production Company owed a flat fee renewal of \$690 for Gallegos Canyon Compressor Station (GW-088). The flat fee renewals for compressor stations with a combined horsepower between 1,001 and 3,000 is \$345. Since Gallegos Canyon Compressor Station is between that range, the flat fee is \$345.

Should you need further assistance, please contact me at (505) 827-7155.

Sincerely,


Mark Ashley
Geologist

xc: OCD Aztec Office

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

Sent to	
Street & Number	
Post Office, State, & ZIP Code	
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	

PS Form 3800, April 1995



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

January 16, 1997

CERTIFIED MAIL
RETURN RECEIPT NO. P-288-258-892

Mr. Buddy Shaw
Amoco Production Company
200 Amoco Court
Farmington, NM 87401

RE: Discharge Plan GW-088
Gallegos Canyon Compressor Station
San Juan County, New Mexico

Dear Mr. Shaw:

The ground water discharge plan GW-088, for the Amoco Production Company (Amoco) Gallegos Canyon Compressor Station located in the SW/4 NE/4, of Section 21, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico, **is hereby approved** under the conditions contained in the enclosed attachment. The discharge plan consists of the original discharge plan as approved January 17 1992, and the discharge plan renewal application dated October 11, 1996. 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 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 Amoco 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.

Mr. Buddy Shaw
January 16, 1997
Page 2

Please note that Section 3104 of the regulations require "When a facility has been approved, discharges must be consistent with the terms and conditions of the plan." Pursuant to Section 3107.C. Amoco 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.

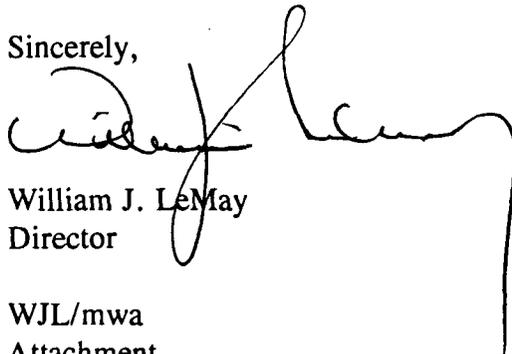
Pursuant to Section 3109.G.4., this plan is for a period of five years. This approval will expire on January 17, 2002, and Amoco should submit an application in ample time before this date. Note that under Section 3106.F. of the regulations, if a discharger submits a discharge plan renewal application 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 Amoco Production Company (Amoco) Gallegos Canyon Compressor Station is subject to WQCC Regulation 3114. Every billable facility submitting a discharge plan will be assessed a fee equal to the filing fee of \$50 plus a flat fee of \$690 for compressor stations. The OCD received the filing fee on October 15, 1996. The flat fee is due upon receipt of this approval. The flat fee may be paid in a single payment due on the date of the discharge plan approval or in five equal installments over the expected duration of the discharge plan. Installment payments shall be remitted yearly, with the first installment due on the date of the discharge plan approval.

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,



William J. LeMay
Director

WJL/mwa
Attachment

xc: OCD Aztec Office

ATTACHMENT TO THE DISCHARGE PLAN GW-088 RENEWAL
AMOCO PRODUCTION COMPANY
GALLEGOS CANYON COMPRESSOR STATION
DISCHARGE PLAN APPROVAL CONDITIONS
(January 16, 1997)

1. Payment of Discharge Plan Fees: The \$690 flat fee shall be submitted upon receipt of this approval. The 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. Amoco Commitments: Amoco will abide by all commitments submitted in the discharge plan application dated October 11, 1996.
3. Drum Storage: All drums containing materials 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.
3. 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.
4. 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 facilities or modifications to existing facilities must place the tank on an impermeable type pad within the berm.
5. 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.
6. Labeling: All tanks, drums and containers should be clearly labeled to identify their contents and other emergency information necessary if the tank were to rupture, spill, or ignite.
7. 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 pre-existing sumps and below-grade tanks must demonstrate integrity on an annual basis. Integrity tests include pressure testing to 3 pounds per square inch above normal operating pressure and/or visual inspection of

cleaned out tanks and/or sumps. The OCD will be notified at least 72 hours prior to all testing so that an OCD representative may witness the testing.

8. Underground Process/Wastewater Lines: All underground process/wastewater pipelines must be tested to demonstrate their mechanical integrity at present and then every 5 years thereafter, or prior to discharge plan renewal. Permittees 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 so that an OCD representative may witness the testing.
9. Class V Wells: Leach fields and other wastewater disposal systems at OCD regulated facilities which inject fluid other than domestic waste sewage below the surface are considered Class V injection wells under the EPA UIC program. All class V wells will be closed unless, it can be demonstrated that protectable groundwater will not be impacted in the reasonably foreseeable future. Class V wells must be closed through the Santa Fe Office. The OCD allows industry to submit closure plans which are protective of human health, environment and groundwater as defined by the WQCC, and are cost effective.
10. Housekeeping: All systems designed for spill collection/prevention should be inspected to ensure proper operation and to prevent overtopping or system failure.

Any non-exempt contaminated soils that are collected at the facility will be tested for hazardous constituents, and after receiving OCD approval, will be disposed of at an OCD approved site.
11. Spill Reporting: All spills/releases shall be reported pursuant to OCD Rule 116 and WQCC 1203 to the OCD Aztec District Office.
12. 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.
13. Closure: The OCD will be notified when operations of the facility are discontinued for a period in excess of six months. Prior to closure of the facility 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.

14. Certification: Amoco, by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein. Amoco 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:

AMOCO PRODUCTION COMPANY

by _____
Title

P 288 256 892

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

Sent to	
Street & Number	
Post Office, State, & ZIP Code	
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	

PS Form 3800, April 1995



United States Department of the Interior

FISH AND WILDLIFE SERVICE

New Mexico Ecological Services Field Office
2105 Osuna NE
Albuquerque, New Mexico 87113
Phone: (505) 761-4525 Fax: (505) 761-4542

November 15, 1996

RECEIVED

NOV 20 1996

Environmental Bureau
Oil Conservation Division

William J. Lemay, Director
Oil Conservation Division
2040 South Pacheco
Sante Fe, New Mexico 87505

Dear Mr. Lemay:

This responds to your agency's public notices dated October 18 and October 29, 1996, regarding the discharge plan applications and renewals for the five applicants described below:

(GW-093) - Burlington Resources. Mr. Craig Bock has submitted an application for renewal of the company's approved discharge plan for the Rattlesnake Compressor Station located in Section 10, Township 31 North, Range 7 West, San Juan County, New Mexico. Approximately 450 gallons per day of washdown water and produced water will be stored in above ground steel tanks prior to transport to an OCD approved disposal facility.

(GW-088) - Amoco Production Facility. Mr. Buddy Shaw has submitted an application for renewal of the company's approved discharge plan for the Gallegos Canyon Compressor Station located in Section 21, Township 29 North, Range 12 West, San Juan County, New Mexico. Approximately 2,800 gallons per day of wastewater water will be stored in above ground steel tanks prior to transport to an OCD approved disposal facility.

(GW-267) - El Paso Field Services. Ms. Sandra Miller has submitted a Discharge Plan Application for the company's Bass James Compressor Station located in Section 36, Township 22 South, Range 30 East, Eddy County, New Mexico. Potential discharges at the facility will be stored in a closed top receptacle.

(GW-090) - Transwestern Pipeline Company. Mr. Larry Campbell has submitted an application for renewal of the company's approved discharge plan for the Portales Compressor Station located in Section 16, Township 1 South, Range 34 East, Roosevelt County, New Mexico. Potential discharges at the facility will be stored in a closed top receptacle.

(GW-091) - Williams Field Services. Ms. Leigh Gooding has submitted an application for renewal of the company's approved discharge plan for the 32-9 CDP Compressor Station located in Section 15, Township 31 North, Range 10 West, San Juan County, New Mexico. Potential discharges at the facility will be stored in

RECEIVED

NOV 20 1996

William J. Lemay

2

Environmental Bureau
Oil Conservation Division

a closed top receptacle.

The U.S. Fish and Wildlife Service (Service) has no objection to the Oil Conservation Division approving discharge plans GW-267, GW-090, and GW-091, which utilize closed top receptacles or tanks, as the closed tops prevent migratory bird and other wildlife direct access to potentially toxic chemicals.

We also recommend the use of berms or some other spill containment methodology around the storage receptacles and tanks for the operations above to help prevent migration of contaminated waters into the surface waters of New Mexico during any accidental rupture or spill.

On April 20, 1994, portions of the San Juan River in San Juan County, New Mexico, were designated as critical habitat for the federally-listed endangered Colorado squawfish and razorback sucker. The critical habitat for the Colorado squawfish is the reach of the San Juan River from the Highway 371 Bridge (in Farmington) to Neskahai Canyon on the San Juan Arm of Lake Powell in Utah. Critical habitat for the razorback sucker includes the reach of the San Juan River from the Hogback Diversion (west of Waterflow, New Mexico) to Neskahai Canyon.

Due to considerations for protection of critical habitat for the Colorado squawfish and the razorback sucker, as well as to individuals or populations of squawfish that may be located upstream from the critical habitat boundary, we urge you to ensure that discharge plans GW-093, GW-088, and GW-091 contain adequate provisions (such as spill containment berms) to ensure the protection of these endangered fish. In the event of a release of pollutants into the San Juan River, or of pollutants which eventually reach the San Juan River, the Service and/or the New Mexico Department of Game and Fish should be notified immediately.

We request that you provide applicants receiving discharge plan approvals for facilities near the San Juan River in San Juan County with the following emergency notification information:

U.S. Fish and Wildlife Service
New Mexico Ecological Services Field Office
2105 Osuna NE
Albuquerque, NM 87113
Telephone (505) 761-4525
Fax (505) 761-4542

New Mexico Department of Game & Fish
Villagra Building
P.O. Box 25112
Santa Fe, NM 87504
Telephone (505) 827-7882
Fax (505) 827-7801

For discharge plans GW-093 and GW-088, the Service recommends the use of excluding technology (e.g., nets, fences, enclosed tanks, etc.) to prevent migratory bird and other wildlife access to any open top receptacles or tanks for produced waters or wastewater which may contain toxic chemicals, or which may harbor a surface oil sheen. During flight, migratory birds may not distinguish between a storage tank and a natural waterbody: the open-top artificial waterbody may serve as an "attractive nuisance" if measures are not taken to exclude migratory birds from access. Alternatively, the applicants or the Oil

Conservation Division may elect to demonstrate that the retained waters are "bird-safe" (e.g., can meet New Mexico general water quality standards 1102.B, 1102.F, and 3101.K or 3101.L).

Our intent is to inform and intercede before any migratory bird deaths occur, since these birds constitute a legally protected resource. Under the Migratory Bird Treaty Act (MBTA), the courts have held that an operator of produced water or other wastewater storage facilities may be held liable for an "illegal take" of migratory birds. An "illegal take" has been interpreted to include accidental poisoning or accumulation of harmful concentrations of contaminants by migratory birds, which might occur as a result of access to the stored fluids. Hydrocarbon pollutants, for instance, can be carried to the nest on breast feathers, feet, or in nesting materials, where the eggs can subsequently become contaminated, leading to embryo death and reduced hatchability. If the construction or operation of open top storage structures results in migratory bird deaths and the problem is not addressed, the operator may be held liable under the enforcement provisions of the MBTA.

Although the comments we have provided in this letter are primarily designed to safeguard migratory birds and threatened and endangered species, incorporation of our recommendations in these discharge plans would also tend to be protective of other wildlife which may reside at or visit the disposal sites. We encourage your agency to solicit additional comments from the New Mexico Department of Game and Fish to assist in the protection wildlife.

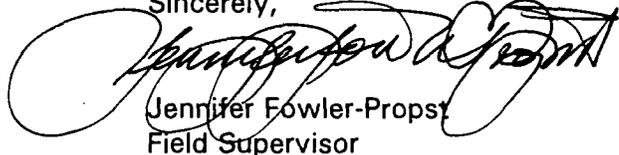
Thank you for the opportunity to review and comment on these discharge plan applications. If you have any question about these comments, please call Dennis W. Byrnes at (505) 761-4525.

RECEIVED

NOV 20 1996

Environmental Bureau
Oil Conservation Division

Sincerely,



Jennifer Fowler-Propst
Field Supervisor

cc:

Director, New Mexico Department of Game and Fish, Santa Fe, New Mexico
Geographic Manager, New Mexico Ecosystems, U.S. Fish and Wildlife Service,
Albuquerque, New Mexico
Migratory Bird Office, U.S. Fish and Wildlife Service, Albuquerque, New Mexico

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. [redacted] dated 10/15/96
or cash received on _____ in the amount of \$ 50.00

from AMOCO

for Gallegos Canyon C.S. GW-088
(Facility Name) (CP No.)

Submitted by: _____ Date: _____

Submitted to ASD by: ROA Date: 10/15/96

Received in ASD by: [Signature] Date: 10/23/96

Filing Fee New Facility _____ Renewal _____
Modification _____ Other _____
(Specialty)

Organization Code 521.07 Applicable FY 97

To be deposited in the Water Quality Management Fund.

Full Payment _____ or Annual Increment _____

AMOCO PRODUCTION COMPANY
LSA, OKLAHOMA

San Juan Operations Center Location October 15, 1996 No. [redacted]
No Protest At Sight

Pay To The Order of New Mexico Energy Minerals and Natural Resources Dept., Oil Conserv. Div. \$ 50.00

Fifty and No/100 PROPERLY ENDORSE THIS ITEM AND NEGOTIATE AS A CHECK Dollars

Payment of Discharge Plan GW-088 Renewal, Gallegos Canyon Compressor Station, San Juan County, New Mexico.

PAYABLE THROUGH
The First National Bank and Trust Company
Tulsa, Oklahoma

86-1 }
1039

[Signature]



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 Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Revised 12/1/94
Submit Origin
Plus 1 Copy
to Santa Fe
1 Copy to appropriate
District Office

**DISCHARGE PLAN APPLICATION FOR SERVICE COMPANIES,
GAS PLANTS, REFINERIES, COMPRESSOR, AND CRUDE OIL PUMP STATIONS**
(Refer to the OCD Guidelines for assistance in completing the application)

GW-088

New

Renewal

Modification

- Type: Compressor Facility
- Operator: Amoco Production Company
Address: 200 Amoco Court Farmington NM 87401
Contact Person: Buddy Shaw Phone: 326-9219
- Location: SW 14 NE 14 Section 21 Township 29N Range 12W
Submit large scale topographic map showing exact location.

- Attach the name, telephone number and address of the landowner of the facility site.
- Attach the description of the facility with a diagram indicating location of fences, pits, dikes and tanks on the facility.
- Attach a description of all materials stored or used at the facility.
- Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste water must be included.
- Attach a description of current liquid and solid waste collection/treatment/disposal procedures.
- Attach a description of proposed modifications to existing collection/treatment/disposal systems.
- Attach a routine inspection and maintenance plan to ensure permit compliance.
- Attach a contingency plan for reporting and clean-up of spills or releases.
- Attach geological/hydrological information for the facility. Depth to and quality of ground water must be included.
- Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.
- CERTIFICATION No change in Facility

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

NAME: Buddy Shaw Title: Environmental Coordinator
Signature: Buddy Shaw Date: 10-11-96



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

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87506
(505) 827-7131

October 4, 1996

NEW MEXICO DEPT. OF
DATE RECEIVED
OCT 09 1996

CERTIFIED MAIL
RETURN RECEIPT NO. P-288-258-859

Mr. Buddy Shaw
Amoco Production Company
200 Amoco Court
Farmington, NM 87401

**RE: Discharge Plan GW-088 Renewal Notice
Gallegos Canyon Compressor Station
San Juan County, New Mexico**

Dear Mr. Shaw:

On January 17, 1992, the groundwater discharge plan, GW-088, for the Amoco Production Company (Amoco) Gallegos Canyon Compressor Station located in Section 21, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico, was approved by the Director of the New Mexico Oil Conservation Division (OCD). This discharge plan was required and submitted pursuant to Water Quality Control Commission (WQCC) regulation 3106 and was approved pursuant to Section 3109 for a period of five years. The approval will expire on January 17, 1997.

On January 16, 1996, and again on July 19, 1996 Amoco was notified of the upcoming expiration. If the discharge plan renewal is not received and approved by the OCD by January 17, 1997, Gallegos Canyon Compressor Station will be required to cease operations until the OCD receives and approves the discharge plan renewal.

If the facility continues to have potential or actual effluent or leachate discharges and wishes to continue operation, the discharge plan must be renewed. The OCD is reviewing discharge plan submittals and renewals carefully and the review time can extend for several weeks to months. Please indicate whether Amoco has made, or intends to make, any changes in the system, and if so, please include these modifications in the application for renewal.

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 applications have been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

(GW-093) - Burlington Resources, Craig Bock, (505) 326-9537, P.O. Box 4289, Farmington, New Mexico 87499-4289, has submitted a discharge application for renewal of its previously approved discharge plan for the Rattlesnake Compressor Station located in the SW/4 SW/4 of Section 10, Township 31 North, Range 7 West, NMPM, San Juan County, New Mexico. Approximately 450 gallons per day of washdown water and produced water is stored in above ground steel tanks prior to transport to an OCD approved disposal facility. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 150 feet with a total dissolved solids concentration of approximately 1,400 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

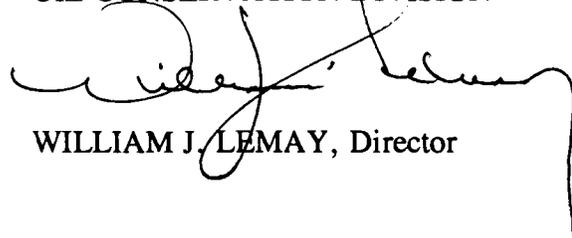
(GW-088) - Amoco Production Facility, Buddy Shaw, (505) 326-9219, 200 Amoco Court, Farmington, New Mexico 87401, has submitted a discharge application for renewal of its previously approved discharge plan for the Gallegos Canyon Compressor Station located in the SW/4 NE/4 of Section 21, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico. Approximately 2,800 gallons per day of waste water is stored in above ground steel tanks prior to transport to an OCD approved offsite Class II disposal facility. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 200 feet with a total dissolved solids concentration of approximately 1,000 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 renewal applications 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 renewals or modifications, 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 plans based on information available. If a public hearing is held, the Director will approve or disapprove the proposed plans based on the information in the discharge plan renewal applications 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 October 1996.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION



WILLIAM J. LEMAY, 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

October 4, 1996

CERTIFIED MAIL
RETURN RECEIPT NO. P-288-258-859

Mr. Buddy Shaw
Amoco Production Company
200 Amoco Court
Farmington, NM 87401

**RE: Discharge Plan GW-088 Renewal Notice
Gallegos Canyon Compressor Station
San Juan County, New Mexico**

Dear Mr. Shaw:

On January 17, 1992, the groundwater discharge plan, GW-088, for the Amoco Production Company (Amoco) Gallegos Canyon Compressor Station located in Section 21, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico, was approved by the Director of the New Mexico Oil Conservation Division (OCD). This discharge plan was required and submitted pursuant to Water Quality Control Commission (WQCC) regulation 3106 and was approved pursuant to Section 3109 for a period of five years. The approval will expire on January 17, 1997.

On January 16, 1996, and again on July 19, 1996 Amoco was notified of the upcoming expiration. If the discharge plan renewal is not received and approved by the OCD by January 17, 1997, Gallegos Canyon Compressor Station will be required to cease operations until the OCD receives and approves the discharge plan renewal.

If the facility continues to have potential or actual effluent or leachate discharges and wishes to continue operation, the discharge plan must be renewed. The OCD is reviewing discharge plan submittals and renewals carefully and the review time can extend for several weeks to months. Please indicate whether Amoco has made, or intends to make, any changes in the system, and if so, please include these modifications in the application for renewal.

Mr. Buddy Shaw
October 4, 1996
Page 2

The discharge plan renewal application for the **Gallegos Canyon Compressor Station** is subject to the WQCC Regulation 3114. Every billable facility submitting a discharge plan renewal will be assessed a fee equal to the filing fee of \$50. There is no flat fee for compressor stations with a combined horsepower of 1,000 or less. The \$50 filing fee is to be submitted with the discharge plan renewal application and is nonrefundable.

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

Please submit the original discharge plan renewal application and one copy to the OCD Santa Fe Office and one copy to the OCD Aztec District Office. **Note that the completed and signed application form must be submitted with your discharge plan renewal request.**

If Amoco no longer has any actual or potential discharges and a discharge plan is not needed, please notify this office. If Amoco has any questions, please do not hesitate to contact Mark Ashley at (505) 827-7155.

Sincerely,



Roger C. Anderson
Environmental Bureau Chief

RCA/mwa

xc: OCD Aztec Office

P 288 258 859

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

Sent to	
Street & Number	
Post Office, State, & ZIP Code	
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	

PS Form 3800, April 1995

Pat Sorensen



Southern

Rockies

Business

Unit

San Juan Operations Center

RECEIVED

AUG 26 1996

Environmental Bureau
Oil Conservation Division

AUGUST 6, 1996

NEW MEXICO OIL CONSERVATION DIVISION
1000 RIO BRAZOS RD
AZTEC, NM 87410

DISCHARGE PLANS-BHP TO AMOCO

AMOCO PRODUCTION COMPANY REQUESTS THAT THE FOLLOWING
DISCHARGE PLANS FOR BHP COMPRESSOR SITES BE TRANSFERRED
TO AMOCO EFFECTIVE IMMEDIATELY :

GCU HWY 64 COMPRESSOR
GCU 3-C COMPRESSOR
E.H. PIPKIN COMPRESSOR
W. HAMMOND COMPRESSOR

SW/NE SECTION 21-29N-12W
SW/SE SECTION 29-29N-12W
NW/NW SECTION 36-28N-11W
SW/SW SECTION 28-29N-12W

PLEASE CALL IF YOU HAVE QUESTIONS OR NEED ADDITIONAL INFO.
THANKS FOR YOUR HELP IN THIS MATTER.

Buddy Shaw

BUDDY SHAW
ENVIRONMENTAL COORDINATOR
326-9219

P.S. WE DO NOT HAVE ANY PAPERWORK ON THESE SITES. CAN YOU
FURNISH US WITH EXPIRATION DATES?

RECEIVED
AUG - 7 1996
OIL CON. DIV.
DIST. 3



Americas Division
BHP Petroleum

1 August, 1996

RECEIVED

AUG 05 1996

Environmental Bureau
Oil Conservation Division

Roger C. Anderson
Environmental Bureau Chief
New Mexico Energy, Minerals
and Natural Resources Department
Oil Conservation Division
2040 South Pacheco St.
Santa Fe, New Mexico 87505

Re: Change of Ownership - Facilities with Discharge Plans

Dear Mr. Anderson,

Effective January 1, 1996, BHP Petroleum (Americas) Inc. sold properties in the San Juan Basin to Amoco Production Co. Several of the properties had compressor facilities with discharge plans. Following are the affected facilities. These properties are all located in San Juan County.

Discharge Plan GW-088
Gallegos Canyon Compressor Station
NW/4, Section 21, Township 29 North, Range 12 West, NMPM

Discharge Plan GW-120
Pipkin Compressor Station
NW/4, Section 36, Township 28 North, Range 11 West, NMPM

Discharge Plan GW-124
Hammond Ditch Compressor Station
SW/4, Section 28, Township 29 North, Range 12 West, NMPM

Discharge Plan GW-171
Gallegos Canyon 3-C Compressor Station
SE/4, Section 29, Township 29 North, Range 12 West, NMPM

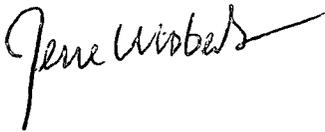
Discharge Plans - Change Ownership
Roger C. Anderson
1 August, 1996

Page 2

It is our understanding that the Amoco office in Farmington will be handling environmental permits and plans so further correspondence should be directed to them. Unfortunately I do not have a Amoco contact name to provide you, but their address is 200 Amoco Court, Farmington, New Mexico 87401.

Thank you very much.

Sincerely,

A handwritten signature in cursive script that reads "Jesse L. Roberts". The signature is written in black ink and is positioned above the typed name and title.

Jesse L. Roberts
Safety, Health and Environment Coordinator



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

July 19, 1996

CERTIFIED MAIL
RETURN RECEIPT NO. Z-765-962-965

Mr. Jesse L. Roberts
BHP-Petroleum (Americas), Inc.
1360 Post Oak Blvd.
Suite 500
Houston, Texas 77056

**RE: Discharge Plan GW-088 Renewal Notice
Gallegos Canyon Rio Vista Compressor Station
San Juan County, New Mexico**

Dear Mr. Roberts:

On January 17, 1992, the groundwater discharge plan, GW-088, for the BHP Petroleum (BHP) Gallegos Canyon Rio Vista Compressor Station located in Section 21, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico, was approved by the Director of the New Mexico Oil Conservation Division (OCD). This discharge plan was required and submitted pursuant to Water Quality Control Commission (WQCC) regulation 3106 and was approved pursuant to section 3109 for a period of five years. The approval will expire on January 17, 1997.

If the facility continues to have potential or actual effluent or leachate discharges and wishes to continue operation, the discharge plan must be renewed. Pursuant to Section 3106.F., if an application for renewal is submitted at least 120 days before the discharge plan expires (on or before September 17, 1996), then the existing approved discharge plan for the same activity shall not expire until the application for renewal has been approved or disapproved. The OCD is reviewing discharge plan submittals and renewals carefully and the review time can extend for several weeks to months. Please indicate whether BHP has made, or intends to make, any changes in the system, and if so, please include these modifications in the application for renewal.

Mr. Jesse Roberts
July 19, 1996
Page 2

The discharge plan renewal application for the Gallegos Canyon Rio Vista Compressor Station is subject to the WQCC Regulation 3-114. Every billable facility submitting a discharge plan renewal will be assessed a fee equal to the filing fee of \$50. There is no flat fee for compressor stations with a combined horsepower of 1000 or less. The \$50 filing fee is to be submitted with the discharge plan renewal application and is nonrefundable.

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

Please submit the original discharge plan renewal application and one copy to the OCD Santa Fe Office and one copy to the OCD Aztec District Office. **Note that the completed and signed application form must be submitted with your discharge plan renewal request.**

If BHP no longer has any actual or potential discharges and a discharge plan is not needed, please notify this office. If BHP has any questions, please do not hesitate to contact Mark Ashley at (505) 827-7155.

Sincerely,



Roger C. Anderson
Environmental Bureau Chief

RCA/mwa

xc: OCD Aztec Office

Z 765 962 965

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

Sent to	
Street and No.	
P.O., State and ZIP Code	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, March 1993

OIL CONSERVATION DIVISION

January 16, 1996

CERTIFIED MAIL
RETURN RECEIPT NO. Z-765-962-921

Mr. Jesse L. Roberts
BHP-Petroleum (Americas), Inc.
5847 San Felipe, Suite 3600
Houston, Texas 77057

**RE: Discharge Plan GW-088 Renewal
Gallegos Canyon Rio Vista Compressor Station
San Juan County, New Mexico**

Dear Mr. Roberts:

On January 17, 1992, the groundwater discharge plan, GW-088, for the BHP Petroleum Gallegos Canyon Rio Vista Compressor Station located in Section 21, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico, was approved by the Director of the New Mexico Oil Conservation Division (OCD). This discharge plan was required and submitted pursuant to Water Quality Control Commission (WQCC) regulation 3106 and was approved pursuant to section 3109 for a period of five years. The approval will expire on January 17, 1997.

If your facility continues to have potential or actual effluent or leachate discharges and you wish to continue operation, you must renew your discharge plan. The OCD is reviewing discharge plan submittals and renewals carefully and the review time can extend for several weeks to months. Please indicate whether you have made, or intend to make, any changes in your system, and if so, please include these modifications in your application for renewal.

The discharge plan renewal application for the Gallegos Canyon Rio Vista Compressor Station is subject to the WQCC Regulations 3114 discharge plan fee. Every billable facility submitting a discharge plan renewal will be assessed a fee equal to the filing fee of \$50 plus a flat fee of \$690 for Compressor Stations.

The \$50 filing fee is to be submitted with the discharge plan renewal application and is nonrefundable. The flat fee for an approved discharge plan renewal may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the

Mr. Jesse Roberts
 January 16, 1996
 Page 2

discharge plan - with the first payment due the at the time of approval. Please make all checks payable to: **NMED-Water Quality Management** and addressed to the OCD Santa Fe Office.

Please submit the original and one copy to the OCD Santa Fe Office and one copy to the OCD Aztec District Office. **Note that the completed and signed application form must be submitted with your discharge plan renewal request.** The following information is enclosed: Application form, Guidelines, and WQCC regulations.

If you no longer have any actual or potential discharges, a discharge plan is not needed, please notify this office, and provide a closure plan for the facility. If you have any questions regarding this matter, please do not hesitate to contact Mark Ashley at (505) 827-7155.

Sincerely,



Roger C. Anderson
 Environmental Bureau Chief

RCA/mwa

xc: OCD Aztec Office

Enclosures

Z 765 962 929

Z 765 962 929



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

Sent to	
Street and No.	
P.O., State and ZIP Code	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, March 1993



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

Sent to	
Street and No. RETURNED FOR ADDRESS	
P.O., State and ZIP Code	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, March 1993

STATE OF NEW MEXICO

County of Bernalillo

SS

OIL CONSERVATION DIVISION

RECEIVED

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 applications have been submitted to the Director of the Oil Conservation Division, State Land Office Building, P.O. Box 2088, Santa Fe, New Mexico 87504-2088, Telephone (505) 827-5800:

(GW-93)-Meridian Oil Inc., Danny W. Hill, Plant/Pipeline Manager, PO Box 4289, Farmington, New Mexico 87499-4289, has submitted a discharge plan application for their Rattlesnake Compressor Station located in the NW/4, Section 36, Township 31 North, Range 9 West, NMPM, San Juan County, New Mexico. Approximately 67 gallons per day of waste water is stored in an above ground steel tank prior to transport to an OCD approved off-site disposal facility. Ground water most likely to be affected by an accidental discharge is at a depth of approximately 25 feet with a total dissolved solids concentration of approximately 1200 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-71)-El Paso Natural Gas Company, Larry R. Tarver, Vice President, North Region, PO Box 1492, El Paso, Texas, 79978, has submitted a discharge plan application for their Chaco Canyon Gas Processing Plant located in Section 16, Township 28 North, Range 12 West, NMPM, San Juan County, New Mexico. Approximately 180,000 gallons per day of process waste water is disposed of in four unlined lagoons. The discharge application proposes closure of the unlined lagoons and construction of double lined evaporation ponds equipped with leak detection. Groundwater most likely to be affected by an accidental discharge is at a depth of approximately 220 feet with a total dissolved solids concentration of approximately 560 mg/l. The discharge plan addresses how spills, leaks and other accidental discharges to the surface will be managed.

(GW-92)-El Paso Natural Gas Company, Larry R. Tarver, Vice President, North Region, PO Box 1492, El Paso, Texas, 79978, has submitted a discharge plan application for their proposed Rio Vista Compressor Station located in Section 27, Township 29 North, Range 11 West, NMPM, San Juan County, New Mexico. The compressor station is designed to minimize the generation of wastes. Any wastes generated will be stored in a below grade steel tank equipped with secondary containment and leak detection. Those wastes that cannot be recycled will be transported offsite to an OCD approved disposal site. Groundwater most likely to be affected by an accidental discharge is at a depth of approximately 24 feet with a total dissolved solids concentration of approximately 3400 mg/l. The discharge plan addresses how spills, leaks and other accidental discharges to the surface will be managed.

Thomas J. Smithson being duly sworn declares and says that he is National Advertising manager of the Albuquerque Journal, and that this newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Session Laws of 1937, and that payment therefore has been made or assessed as court costs; that the notice, a copy of which is hereto attached, was published in said paper in the regular daily edition,

for.....1.....times, the first publication being on the.....18.....day of.....Dec....., 1991, and the subsequent consecutive publications on....., 1991.

Thomas J. Smithson

Sworn and subscribed to before me, a Notary Public in and for the County of Bernalillo and State of New Mexico, this.....18.....day of.....Dec....., 1991.

PRICE.....\$ 52.54

Statement to come at end of month.

ACCOUNT NUMBER.....C81184

CLA-22-A (R-12/91)

Bernadette
12-18-93

DEC 20 AM 8 46

(GW-88)-BHP-Petroleum (Americas), Inc., Jesse L. Roberts, Manager-Regulatory and Environmental Affairs, 5847 San Felipe, Suite 3600, Houston, Texas, 77057, has submitted a discharge plan application for their proposed Gallegos Canyon Compressor Station located in Section 21, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico. Approximately 2800 gallons per day of waste water will be stored in an above grade steel tank prior to transport to an OCD approved offsite disposal well. Groundwater most likely to be affected by an accidental discharge is at a depth of approximately 200 feet with a total dissolved solids concentration of approximately 1000 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-91)-Williams Field Services, Sandy Fahler, Environmental Specialist, PO Box 58900, M.S. 10368, Salt Lake City, Utah, 84158-0900, has submitted a discharge plan application for their proposed 32-9 CDP (Central Delivery Point) located in the NE/4 SE/4, Section 15, and the NW/4 SW/4, Section 14, Township 31 North, Range 10 West, NMPM, San Juan County, New Mexico. Approximately 10 gallons per day of waste water will be stored in an above grade steel tank prior to transport to an OCD approved offsite disposal facility. Groundwater most likely to be affected by an accidental discharge is at a depth of approximately 500 feet with a total dissolved solids concentration of approximately 300 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 5:00 p.m., Monday through Friday. Prior to ruling on any proposed 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 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 4th day of December, 1991.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
WILLIAM J. LEMAY, Director
Journal: December 18, 1991

AFFIDAVIT OF PUBLICATION

No. 28702

STATE OF NEW MEXICO,
County of San Juan:

CHRISTINE HILL being duly sworn, says: "That she is the NATIONAL AD MANAGER of The Farmington Daily Times, a daily newspaper of general circulation published in English in Farmington, said county and state, and that the hereto attached LEGAL NOTICE

was published in a regular and entire issue of the said Farmington 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 ONE consecutive (days) (/////) on the same day as follows:

First Publication WEDNESDAY, DECEMBER 11, 1991

Second Publication _____

Third Publication _____

Fourth Publication _____

and that payment therefore in the amount of \$ 78.27 has been made.

COPY OF PUBLICATI

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

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(GW-71) - El Paso Natural Gas Company, Larry R. Tarver, Vice President, North Region, P. O. Box 1492, El Paso, Texas, 79978, has submitted a discharge plan application for their Chaco Canyon Gas Processing Plant located in Section 16, Township 26 North, Range 12 West, NMPM, San Juan County, New Mexico. Approximately 180,000 gallons per day of process waste water is disposed of in four unlined lagoons. The discharge application proposes closure of the unlined lagoons and construction of double lined evaporation ponds equipped with leak detection. Groundwater most likely to be affected by an accidental discharge is at a depth of approximately 220 feet with a total dissolved solids concentration of approximately 560 mg/l. The discharge plan addresses how spill, leaks, and other accidental discharges to the surface will be managed.

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NOTICE OF PUBLICATION

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

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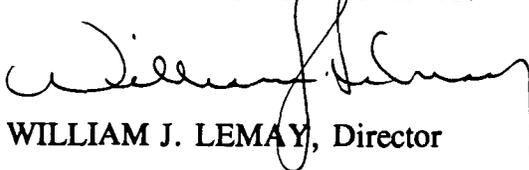
(GW-91) - Williams Field Services, Sandy Fishler, Environmental Specialist, P.O. Box 58900, M.S. 10368, Salt Lake City, Utah, 84158-0900, has submitted a discharge plan application for their proposed 32-9 CDP (Central Delivery Point) located in the NE/4 SE/4, Section 15, and the NW/4 SW/4, Section 14, Township 31 North, Range 10 West, NMPM, San Juan County, New Mexico. Approximately 10 gallons per day of waste water will be stored in an above grade steel tank prior to transport to an OCD approved offsite disposal facility. Groundwater most likely to be affected by an accidental discharge is at a depth of approximately 500 feet with a total dissolved solids concentration of approximately 300 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 5:00 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 4th day of December, 1991.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


WILLIAM J. LEMAY, Director

S E A L



BHP
Petroleum
 (Americas) Inc

5847 San Felipe Suite 3600
 Houston, Texas 77057

NCNB Texas National Bank
 Beaumont, Texas 77706
 88-2287/1131

ARB

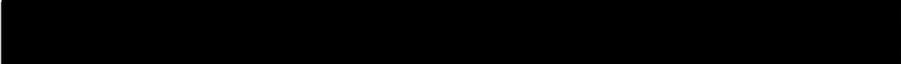
DATE	CHECK NO.	AMOUNT
10-23-91	[REDACTED]	\$***50.00

PAY TO THE
 ORDER OF

New Mexico Oil Conservation Division

CORPORATE OPERATING ACCOUNT

[Handwritten Signature]



PLEASE DETACH BEFORE DEPOSITING

BHP Petroleum (Americas) Inc • Houston, Texas

NAME:

BA #:

CHK:

DATE:

DOCUMENT	ADJ CODE	INVOICE/DESCRIPTION	INVOICE DATE	AMOUNT
A2503140		State Filing fee for Gallegos Canyon Compressor Station - Invoice #102291	10-23-91	\$50.00

NOTE! FOR QUESTIONS REGARDING STATEMENT, PLEASE REFER TO YOUR BA# WHEN CALLING IN.

10/27/91

Pay to the order of -
NMED Water Quality
Management Fund

by Brenton Child
administrator

Oil Conservation Program
EMNRD

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. [REDACTED] dated 10/23/91
or cash received on _____ in the amount of \$ 50.00
from BHP PETROLEUM

for GALLEGOS CANYON COMPRESSOR STA GW-088

Submitted by: Roger Anderson Date: 10/29/91
(Facility Name) (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 80th

To be deposited in the Water Quality Management Fund.

Full Payment _____ or Annual Increment _____

Note:

\$50.00 filing fee check drawn to N.M. Oil Conservation
Division endorsed to NMED W.Q.M. Fund by
Prenter Childs, Oil Conservation Division Bureau Chief,
on 10/29/91. P. Childs



Regional Office
500 Copper NW, Suite 200
Albuquerque, NM 87102
(505) 842-0001
Telecopy: (505) 842-0595

October 28, 1991

Mr. Roger Anderson
Oil Conservation Division
P.O. Box 2088, RM #206
Santa Fe, NM 87504

RE: GALLEGOS CANYON COMPRESSOR STATION DISCHARGE PLAN

Dear Mr. Anderson:

Enclosed are three copies of the Discharge Plan for BHP Petroleum's Gallegos Canyon Compressor Station located in Section 21, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico. Also enclosed is a check from BHP for the \$50.00 filing fee.

Construction of the compressor station is scheduled to start in November 1991.

If you have any comments or questions regarding the plan, please contact me at 842-0001.

Sincerely,
H+GCL

A handwritten signature in black ink, appearing to read 'Gary L. Jordan', is written over the typed name.

Gary L. Jordan
Senior Project Manager

GLJ/0676/ANDER001.LTR

Enclosure

cc: Mr. Jesse Roberts, BHP Petroleum-Houston (with enclosure)

RECEIVED

OCT 29 1991

OIL CONSERVATION DIV.
SANTA FE

RECEIVED

OCT 29 1991

OIL CONSERVATION DIV.
SANTA FE

**BHP-Petroleum
Gallegos Canyon Compressor Station
Discharge Plan**

October 15, 1991

Prepared for:

*BHP-Petroleum
5847 San Felipe
Suite 3600
Houston, TX 77057*

Prepared by:

HYGIENETICS, INC./GEOSCIENCE CONSULTANTS, LTD

***SOUTHWEST REGIONAL OFFICE
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Albuquerque, New Mexico 87102
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BHP-Petroleum

Gallegos Canyon Compressor Station Discharge Plan

Hygienetics, Inc./Geoscience Consultants, Ltd.

This document follows the format presented in "Guidelines for the Preparation of Ground Water Discharge Plans at Natural Gas Processing Plants", prepared by the New Mexico Oil Conservation Division.

1.0 General Information

1.1 Name of Discharger or Legally Responsible Party

BHP-Petroleum (Americas), Inc.
5847 San Felipe, Suite 3600
Houston, TX 77057
(713) 780-5000

1.2 Name of Local Representative or Contact Person

Fred Lowery, Production Superintendent
BHP-Petroleum (Americas), Inc.
P.O. Box 977
Farmington, NM 87401
(505) 327-1639

1.3 Location of Discharge

Section 21, Township 29 North, Range 12 West, NMPM
UTM East 758000, UTM North 4067000
San Juan County, NM (plate 1)

1.4 Types of Natural Gas Operation

Field compression facility, which will be used for the transmission of pipeline quality gas (plate 2).

- **Process:** Raw wellhead gas enters the station at a relatively low pressure. The natural gas will be separated, compressed, dehydrated, and discharged as pipeline quality gas into a pipeline leaving the station.

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Gallegos Canyon Compressor Station Discharge Plan

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- **Design Conditions: Two-Stage Compression**

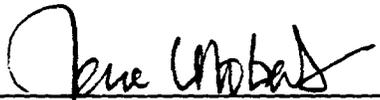
Gas Volume 6.5 MMSCFD
Station hp 679 hp

1.5 Copies

Three copies of Discharge Plan are submitted to OCD as required.

1.6 Affirmation

"I hereby certify that I am familiar with the information contained in and submitted with this discharge plan and that such information is true, accurate, and complete to the best of my knowledge and belief."



Signature

Oct. 17, 1991
Date

JESSE L. ROBERTS
Printed Name of Person Signing Document

MNGR - REGULATORY &
Title ENVIRONMENTAL
AFFAIRS

2.0 Plant Processes

2.1 Sources and Quantities of Effluent and Process Fluids

The natural gas stream entering the plant is raw well head gas with greater than 90% methane by volume.

- Residual heavy oils will be separated from the raw wellhead gas and stored in an above-ground 4,200-gallon steel waste water storage tank. It is estimated that 84 gallons per month will be collected in the oil tank.

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Gallegos Canyon Compressor Station Discharge Plan

Hygienetics, Inc./Geoscience Consultants, Ltd.

- Water will be removed from the raw wellhead gas and stored in a separate 4,200-gallon steel storage tank. This water will come from the separator, filter separator and dehydrator. The amount of water from these sources is estimated to be 8,400 gallons per month.
- Fresh water will be used to clean or wash-down the compressors and engines. Contaminants in the water consist of dirt and small amounts of lubricating oil that may spill into the skid-mounted catch basin below the compressor during routine maintenance. Water collected in the catch basin will be pumped into the 4,200-gallon waste water storage tank. The usage rate of wash-down water is estimated at 15 gallons per month.
- During routine maintenance of the compressor engines, the oil in the engines will be changed approximately every 1,000 hours, at a oil usage rate of 25-30 gallons per month.
- A glycol coolant is added to the compressors as evaporation takes place. The replacement rate of the coolant is estimated to be 5-7 gallons per year.

2.2 Quality Characteristics

- Unocal Guardol Motor Oil 30 or equivalent is used as the lubricating oil for the compressor engines. Refer to the Material Safety Data Sheets (MSDS) in appendix A for a description of this product.
- Dow Chemical Ethylene Glycol or equivalent is used as the coolant for the compressor engines. Refer to the Material Safety Data Sheets (MSDS) in appendix A for a description of this product.

2.3 Transfer and Storage of Process Fluids and Effluents

- Heavy oils and water from the raw wellhead gas stream will be removed in the separator and stored in separate 4,200-gallon above ground storage tanks.
- Make-up engine oil will be stored in a 30 gallon above-ground drum. The drum will sit in an ecological pan which will contain any spills. Larger quantities of oil required for maintenance will be brought to the site on an as-needed basis by truck. Used engine oil will be pumped into the 4,200-gallon oil storage tank.

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Gallegos Canyon Compressor Station Discharge Plan

Hygienetics, Inc./Geoscience Consultants, Ltd.

- Additional coolant will be stored on site in an above-ground 55-gallon drum. The drum will stand in an ecological pan which will contain any spills.
- Wash-down water collected in the compressor sump will be pumped into the 4,200-gallon waste water tank.
- The oil and waste water storage tanks will be placed on a 1" thick gravel bed and will be within a bermed area which will have a total capacity of no less than 5,500 gallons.
- Water removed in the filter separator and dehydrator will be pumped into the 4,200 gallon waste water storage tank.

2.4 Spill/Leak Prevention and Housekeeping Procedures

1. All operations personnel instructed to handle process fluid spills or leaks as follows:
 - Small spills: Cover spill with sand to soak up fluid and shovel fluid-soaked sand into drums for OCD approved disposal.
 - Large spills: Dike around spill and pump into drums. Call vacuum truck if necessary.
 - Any spill large enough to require a dike to contain it will be reported immediately by phone to the OCD. Verbal and written notification of leaks or spills will be made to OCD in accordance with OCD Rule 116.
2. A daily walk-through inspection will be performed by the compressor station operator.
3. All areas identified during operation as susceptible to leaks or spills will be paved, bermed, or otherwise contained to prevent the discharge of any effluents.
4. Above-ground storage tanks will be placed on a 1" gravel bed for leak detection and will be located within a bermed area able to hold 1 1/3 the volume of the largest tank.

BHP-Petroleum Gallegos Canyon Compressor Station Discharge Plan

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3.0 Effluent Disposal

Waste water will be disposed in a Class II disposal well presently under application to the OCD. The well is located in Section 13, T29N, R13W NMPM. The well number is GCU 13 SWD #1.

Heavy oils will be recycled and collected by Mesa Oil, Inc., 4701 Broadway Boulevard SE, Albuquerque, New Mexico.

4.0 Site Characteristics

4.1 Hydrologic Features

Based on experience around the area of the site, the uppermost aquifer is probably unconfined to partially confined and is hosted by the porous, weathered sandstones and shales of the Nacimiento Formation. These units are hydrologically connected with the San Juan River alluvium to the south. Major hydrogeologic features are:

- a water-table aquifer, hosted by the upper parts of the Nacimiento sandstone;
- the potentiometric surface at a depth of 200 to 250 feet beneath the land surface which conforms to local topography; ground water flow from north or northeast to south (towards the San Juan River). and
- minor, local zones of perched ground water.

Total dissolved solids are estimated to be above 1000 milligrams per liter.

4.2 Geologic Description of Discharge Site

The site is located in the west-central part of the San Juan Basin, a large asymmetric structural depression that contains up to 15,000-feet of Paleozoic and Mesozoic sediments. The stratigraphy of the San Juan Basin is comprised of sedimentary rocks ranging in age from Cambrian to Holocene. During Late Cretaceous time, three basin-wide cycles of transgres-

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Gallegos Canyon Compressor Station Discharge Plan

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sion and regression resulted in an intertonguing lithology of sandstone, siltstone, shale and coal. Sedimentary rocks of Jurassic and Cretaceous age crop out around the rim of the basin and over a broad area in the southern and western parts of the basin. Tertiary sedimentary rocks cover most of the central basin. Quaternary deposits are restricted mainly to the major river valleys. Quaternary deposits include outwash terraces along the San Juan River Valley and its tributaries, sand dunes on higher plateaus, and cut and filled alluvial drainages and arroyos.

The site is underlain by weathered outcrops of the Cretaceous-Tertiary age Nacimiento Formation, which is comprised of shales, sandstones and siltstones. Older Quaternary terrace deposits of cobbles and boulders are present on the interfluvial ridges as seen in adjacent arroyos and road cuts south of the site. The San Juan River Valley is south of the site and contains up to several hundred feet of alluvial fill.

4.3 Flood Potential

The site location is located on the plateaus above the San Juan River. The potential for flooding at the site, because it is not in any drainage courses, is minimal.

5.0 Additional Information

Contractors used for the hauling and final disposal of the waste oil will be approved by the New Mexico Environmental Improvement Division.

0676/GALLGCAN.DOC

Appendix A
Material Safety Data Sheets

UNOCAL

Product Name: UNOCAL GUARDOL MOTOR OIL 30
 Product Code No: D3650XX30

Page 1 of
 Issue Date: 6/5

<p>MANUFACTURER: UNOCAL REFINING & MARKETING DIVISION UNION OIL COMPANY OF CALIFORNIA 1201 W. 5TH STREET LOS ANGELES, CALIFORNIA 90017</p> <p>CONTACT FOR FURTHER INFORMATION: MSDS COORDINATOR (213) 977-7589</p>	<p>Transportation Emergencies Call CHEMTREC (800) 424-9300 Cont. U (202) 483-7616 (Collect from Alaska & Hawaii Health Emergencies: CALL LOS ANGELES POISON INFORMATION CENTER (24 hr. (213) 664-2121</p>
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PRODUCT IDENTIFICATION

PRODUCT NAME: UNOCAL GUARDOL ~~MOTOR OIL 30~~

SYNONYMS: UNION GUARDOL MOTOR OIL 30

GENERIC NAME: CRANKCASE OIL

CHEMICAL FAMILY: PETROLEUM HYDROCARBON

DOT PROPER SHIPPING NAME: NOT APPLICABLE

ID NUMBER: NONE

SECTION I - INGREDIENTS	TLV	UNITS	AGENCY	TYPE
OIL MIST, IF GENERATED	5.00	MG/M3	OSHA	FULL TERM TWA
THE IDENTITIES OF INGREDIENTS THAT ARE TRADE SECRETS ARE EXCLUDED FROM THIS LIST.				

SECTION II - EMERGENCY AND FIRST AID PROCEDURES *****EMERGENCY*****
 Have physician call LOS ANGELES POISON
 INFORMATION CENTER (24 hrs.) (213) 664-2121

EYE CONTACT:
 FOR DIRECT CONTACT, FLUSH THE AFFECTED EYE(S) WITH CLEAN WATER. IF IRRITATION OR REDNESS DEVELOPS, SEEK MEDICAL ATTENTION.

SKIN CONTACT:
 DO NOT USE GASOLINES, THINNERS OR SOLVENTS TO REMOVE PRODUCT FROM SKIN. WIPE MATERIAL FROM SKIN AND REMOVE CONTAMINATED CLOTHING. CLEANSE AFFECTED AREA(S) THOROUGHLY BY WASHING WITH SOAP AND WATER AND, IF NECESSARY, A WATERLESS SKIN CLEANSER. IF IRRITATION OR REDNESS DEVELOPS AND PERSISTS, SEEK MEDICAL ATTENTION.

SECTION IV - SPECIAL PROTECTION INFORMATION

EYE PROTECTION:

APPROVED EYE PROTECTION TO SAFEGUARD AGAINST POTENTIAL EYE CONTACT, IRRITATION OR INJURY IS RECOMMENDED.

OTHER PROTECTIVE EQUIPMENT:

IT IS SUGGESTED THAT A SOURCE OF CLEAN WATER BE AVAILABLE IN WORK AREA FOR FLUSHING EYES AND SKIN. BARRIER CREAMS THAT ARE SPECIFIC FOR OIL-BASED MATERIALS ARE RECOMMENDED WHEN GLOVES ARE IMPRACTICAL.

SECTION V - REACTIVITY DATA

STABILITY:

STABLE

INCOMPATIBILITY (MATERIALS TO AVOID):

AVOID CONTACT WITH STRONG OXIDIZING AGENTS. EXTENDED EXPOSURE TO HIGH TEMPERATURES MAY CAUSE DECOMPOSITION.

HAZARDOUS DECOMPOSITION PRODUCTS:

THERMAL DECOMPOSITION IN THE PRESENCE OF AIR MAY YIELD MAJOR AMOUNTS OF OXIDES OF CARBON AND MINOR AMOUNTS OF OXIDES OF NITROGEN, PHOSPHORUS, SULFUR AND ZINC.

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR

SECTION VI - SPILL OR LEAK PROCEDURES

HIGHWAY OR RAILWAY SPILLS
Call CHEMTREC (800) 424-9300 Cont. U.S.
(Collect) (202) 483-7616 from Alaska & Hawaii

PRECAUTIONS IN CASE OF RELEASE OR SPILL:

COLLECT LEAKING LIQUID IN SEALABLE CONTAINERS. ABSORB SPILLED LIQUID IN SAND OR INERT ABSORBANT. CONTACT FIRE AUTHORITIES AND APPROPRIATE STATE/LOCAL AGENCIES. IF SPILL OF ANY AMOUNT IS MADE INTO OR UPON U.S. NAVIGABLE WATERS, THE CONTIGUOUS ZONE, OR ADJOINING SHORELINES, NOTIFY COAST GUARD NATIONAL RESPONSE CENTER (PHONE NUMBER 800-424-8802).

WASTE DISPOSAL METHOD:

DISPOSE OF PRODUCT IN ACCORDANCE WITH LOCAL, COUNTY, STATE, AND FEDERAL REGULATIONS.

SECTION VII - STORAGE AND SPECIAL PRECAUTIONS

HANDLING AND STORAGE PRECAUTIONS:

STORE IN A COOL, DRY LOCATION. KEEP AWAY FROM INCOMPATIBLE MATERIALS (SEE SECTION V). AVOID GENERATING OIL MISTS WHILE HANDLING. AVOID PROLONGED OR REPEATED SKIN CONTACT. WASH THOROUGHLY AFTER HANDLING. FOR USED MOTOR OIL: LAUNDER SATURATED CLOTHING BEFORE WEARING AND DISCARD OIL-SOAKED SHDES AND UNWASHABLE CLOTHING.

SECTION XI - DOCUMENTARY INFORMATION

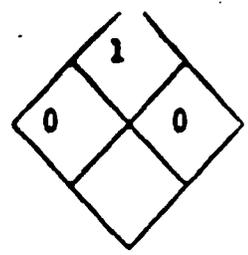
ISSUE DATE: 6/5/85 PRODUCT CODE NO. 03650XX30
PREV. DATE: 7/25/84 PREV. PROD. CODE NO. _____
MSDS NO: _____ PREV. MSDS NO: _____

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

The information in this document is believed to be correct as of the date issued. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THIS INFORMATION, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assume the risk of his use thereof.

MSDS NO.
PRODUCT CASE NO. 03659
TR. NO. None

Midweight Heavy Duty
Union Oil Company of California



UNION 76 DIVISION

MANUFACTURER UNION 76 DIVISION - EAST, UNION OIL COMPANY OF CALIFORNIA 61 SOUTH BOYLSTON STREET LOS ANGELES, CALIFORNIA 90017 (213) 977-7589	Transportation Emergencies: Call CHEMTREC (800) 424-9300 For AK & HI: (202) 483-7616 Health Emergencies: Call Los Angeles Poison Information Center (24 hrs.) (213) 664-2121
CONTACT: 76 DIVISION MSDS COORDINATOR	

PRODUCT	UNION HEAVY DUTY MOTOR OIL, 10W/30
COMMON NAME	
GENERIC NAME	CRANKCASE OIL
CHEMICAL NAME	
CHEMICAL FAMILY	PETROLEUM LUBE OIL
DOT PROPER SHIPPING NAME	NOT APPLICABLE

WARNING STATEMENTS

Caution, can catch fire. Keep away from heat, sparks and flame. Avoid generation of oil mists and prolonged or repeated skin contact. Do not cut, puncture or weld on or near product container. For industrial use only. PROLONGED OR REPEATED CONTACT WITH USED MOTOR OIL MAY BE A SKIN CANCER HAZARD. WASH SKIN WITH SOAP AND WATER.

SECTION I - INGREDIENTS *THRESHOLD LIMIT VALUE SET BY: A. OSHA B. ACGIH C. SEE SECTION III D. OTHER E. NOT ESTABLISHED
 UNITS ARE IN ppm UNLESS SPECIFIED OTHERWISE TLV*

Oil mist, if generated		5 mg/m ³ A, B
Zinc dialkyldithiophosphates (ZDDP)	< 2%	Not Established
Identities of ingredients that are trade secrets are excluded from this list.		

SAFETY INFORMATION

RESPIRATORY TYPE	If exposure exceeds the applicable TLV, a suitable filter-type respirator should be worn. SEE ADDENDUM
VENTILATION	General mechanical ventilation may be adequate for maintaining airborne concentrations below established exposure limits. If general ventilation is inadequate, supplemental local exhaust may be required. Other special precautions, such as respiratory protection, may be required if airborne concentrations cannot be reduced to below the TLV by ventilation.
PROTECTIVE GLOVES	The use of gloves that are impermeable to oils is advised to protect against skin irritation and absorption of zinc dialkyldithiophosphates.
EYE PROTECTION	Safety glasses, chemical goggles, and/or face shields are recommended to safeguard against potential eye contact, irritation, or injury.
OTHER PROTECTIVE EQUIPMENT	Use good personal hygiene practice. Sink and eye wash should be available in work area.

SECTION V - REACTIVITY DATA

STABILITY	STABLE
CONDITIONS TO AVOID	Avoid contact with any source of heat or flame.
STABILITY (MATERIALS) (TO AVOID)	Avoid contact with strong oxidizing agents such as chlorine, permanganates and dichromates.
HAZARDOUS DECOMPOSITION PRODUCTS	Thermal decomposition in the presence of air may yield major amounts of oxides of carbon and minor amounts of oxides of sulfur and nitrogen.
HAZARDOUS POLYMERIZATION	WILL NOT OCCUR
CONDITIONS TO AVOID	

SECTION VI - SPILL OR LEAK PROCEDURES

HIGHWAY OR RAILWAY SPILLS CALL CHEMTREC FOR ASSISTANCE For AK & HI: (202)483-7616

PRECAUTIONS IN CASE OF RELEASE OR SPILL	Stay upwind and away from spill unless wearing appropriate protective equipment (see Section IV). Stop and/or contain discharge if it can be done safely. Keep all sources of ignition and hot metal surfaces isolated from spill. Use non-sparking tools for cleanup. Keep out of drains, sewers or waterways. Contact fire authorities. Notify local health and pollution control agencies. Notify Coast Guard National Response Center (phone number 800-424-8802) if spill of any amount is made into or upon U.S. navigable waters, the contiguous zone, or adjoining shorelines. Consult 40 Code of Federal Regulations Part 110, and state and local law.
WASTE DISPOSAL METHOD	Dispose of product in accordance with local, county, state, and federal regulations.

ADDENDUM

Section II - EMERGENCY AND FIRST AID PROCEDURES

Ingestion:

TO PHYSICIAN: Emesis or lavage is not recommended for minute quantities or tastes of most hydrocarbons. Medical opinion is divided for larger ingestions. Emesis or lavage have been recommended for those petroleum products which have a high oral toxicity. Gastric lavage with a cuffed endotracheal tube is recommended by some physicians to prevent aspiration.



MATERIAL SAFETY DATA SHEET

DOW CHEMICAL U.S.A. MIDLAND, MICHIGAN 48674 EMERGENCY (517) • 636 • 4400

Product Code: 30478

Page: 1

Product Name: ETHYLENE GLYCOL (REGULAR)

Effective Date: 06/18/90 Date Printed: 12/06/90

MSDS:000597

1. INGREDIENTS: (% w/w, unless otherwise noted)

Ethylene glycol

CAS# 000107-21-1 >99%

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not 'Hazardous' per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

2. PHYSICAL DATA:

BOILING POINT: 387.1F 197C
VAP PRESS: 0.12 mmHg @ 25C
VAP DENSITY: 2.14
SOL. IN WATER: Completely miscible.
SP. GRAVITY: 1.1155 @ 20/20C
APPEARANCE: Colorless liquid.
ODOR: Practically odorless.

3. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT: 247F, 119C
METHOD USED: Setflash

FLAMMABLE LIMITS
LFL: 3.2%
UFL: Not determined.

EXTINGUISHING MEDIA: Water fog, alcohol foam, CO2, and dry chemical.

FIRE & EXPLOSION HAZARDS: None expected under normal storage and handling conditions (i.e. ambient temperatures). However,

(Continued On Page 2)

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M A T E R I A L S A F E T Y D A T A S H E E T

Dow Chemical U.S.A.* Midland, MI 48674 Emergency Phone: 517-636-4400

Product Code: 3047B Page: 2

Product Name: ETHYLENE GLYCOL (REGULAR)

Effective Date: 06/18/90 Date Printed: 12/06/90 MSDS:000597

3. FIRE AND EXPLOSION HAZARD DATA: (CONTINUED)

ethylene glycol or solutions of ethylene glycol and water can form flammable vapors with air if heated sufficiently.

FIRE-FIGHTING EQUIPMENT: Wear positive-pressure, self-contained breathing apparatus.

4. REACTIVITY DATA:

STABILITY: (CONDITIONS TO AVOID) Will ignite in air at 775F. (413C).

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) -Oxidizing material.

HAZARDOUS DECOMPOSITION PRODUCTS: Burning produces normal products of combustion, such as carbon monoxide, carbon dioxide, and water.

HAZARDOUS POLYMERIZATION: Will not occur.

5. ENVIRONMENTAL AND DISPOSAL INFORMATION:

ACTION TO TAKE FOR SPILLS/LEAKS: Avoid entry into sewers or natural waters. Small spills: Soak up with absorbent material. Large spills: Dike and pump into suitable containers for disposal.

DISPOSAL METHOD: Burn in an approved incinerator in accordance with all local, state, and federal requirements, or salvage.

6. HEALTH HAZARD DATA:

(Continued On Page 3)

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M A T E R I A L S A F E T Y D A T A S H E E T

Dow Chemical U.S.A.* Midland, MI 48674 Emergency Phone: 517-636-4400

Product Code: 30478

Page: 4

Product Name: ETHYLENE GLYCOL (REGULAR)

Effective Date: 06/18/90 Date Printed: 12/06/90

MSDS:000597

6. HEALTH HAZARD DATA: (CONTINUED)

ethylene glycol in large amounts caused a small decrease in the number of litters per pair, live pups per litter, and in live pup weight. Results of in vitro (test tube) mutagenicity tests have been negative. Results of mutagenicity tests in animals have been negative.

7. FIRST AID:

EYES: Irrigate immediately with water for at least 5 minutes.

SKIN: Wash off in flowing water or shower.

INGESTION: If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air if effects occur. Consult a physician.

NOTE TO PHYSICIAN: Early administration of ethanol may counter the toxic effects of ethylene glycol--metabolic acidosis and renal damage. Hemodialysis or peritoneal dialysis have been of benefit. New Eng. J. Med. 304:21 1981. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

8. HANDLING PRECAUTIONS:

EXPOSURE GUIDELINE(S): OSHA PEL and ACGIH TLV are 50 ppm Ceiling for ethylene glycol vapor.

VENTILATION: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary

(Continued On Page 5)

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Dow Chemical U.S.A.* Midland, MI 48674 Emergency Phone: 517-636-4400

Product Code: 30478

Page: 5

Product Name: ETHYLENE GLYCOL (REGULAR)

Effective Date: 06/18/90 Date Printed: 12/06/90

MSDS:000597

8. HANDLING PRECAUTIONS: (CONTINUED)

for some operations.

RESPIRATORY PROTECTION: Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use an approved air-purifying respirator.

SKIN PROTECTION: Use impervious gloves when prolonged or frequently repeated contact could occur.

EYE PROTECTION: Use safety glasses. If vapor exposure causes eye discomfort, use a full-face respirator.

9. ADDITIONAL INFORMATION:

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Avoid ingestion. Practice reasonable caution and personal cleanliness. Avoid skin and eye contact.

Trace quantities of ethylene oxide (EO) may be present in this product. While these trace quantities could accumulate in headspace areas of storage and transport vessels, they are not expected to create a condition which will result in EO concentrations greater than 0.5 ppm (8 hour TWA) in the breathing zone of the workplace for appropriate applications. OSHA has established a permissible exposure limit of 1.0 ppm 8 hr TWA for EO. (Code of Federal Regulations Part 1910.1047 of Title 29)

MSDS STATUS: Revised section 9 and regsheets.

(Continued On Page 6)

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M A T E R I A L S A F E T Y D A T A S H E E T

Dow Chemical U.S.A.* Midland, MI 48674 Emergency Phone: 517-636-4400

Product Code: 30478

Page: 6

Product Name: ETHYLENE GLYCOL (REGULAR)

Effective Date: 06/18/90 Date Printed: 12/06/90

MSDS:000597

REGULATORY INFORMATION: (Not meant to be all-inclusive--selected regulations represented.)

NOTICE: The information herein is presented in good faith and believed to be accurate as the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See MSD Sheet for health and safety information.

U.S. REGULATIONS
=====

SARA 313 INFORMATION: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

CHEMICAL NAME	CAS NUMBER	CONCENTRATION
ETHYLENE GLYCOL	000107-21-1	99 %

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

- An immediate health hazard
- A delayed health hazard

CANADIAN REGULATIONS
=====

(Continued on Page 7)

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M A T E R I A L S A F E T Y D A T A S H E E T

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Product Name: ETHYLENE GLYCOL (REGULAR)

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MSDS:000597

REGULATORY INFORMATION (CONTINUED)

The Workplace Hazardous Materials Information System (W.H.M.I.S.)
Classification for this product is:

D2A

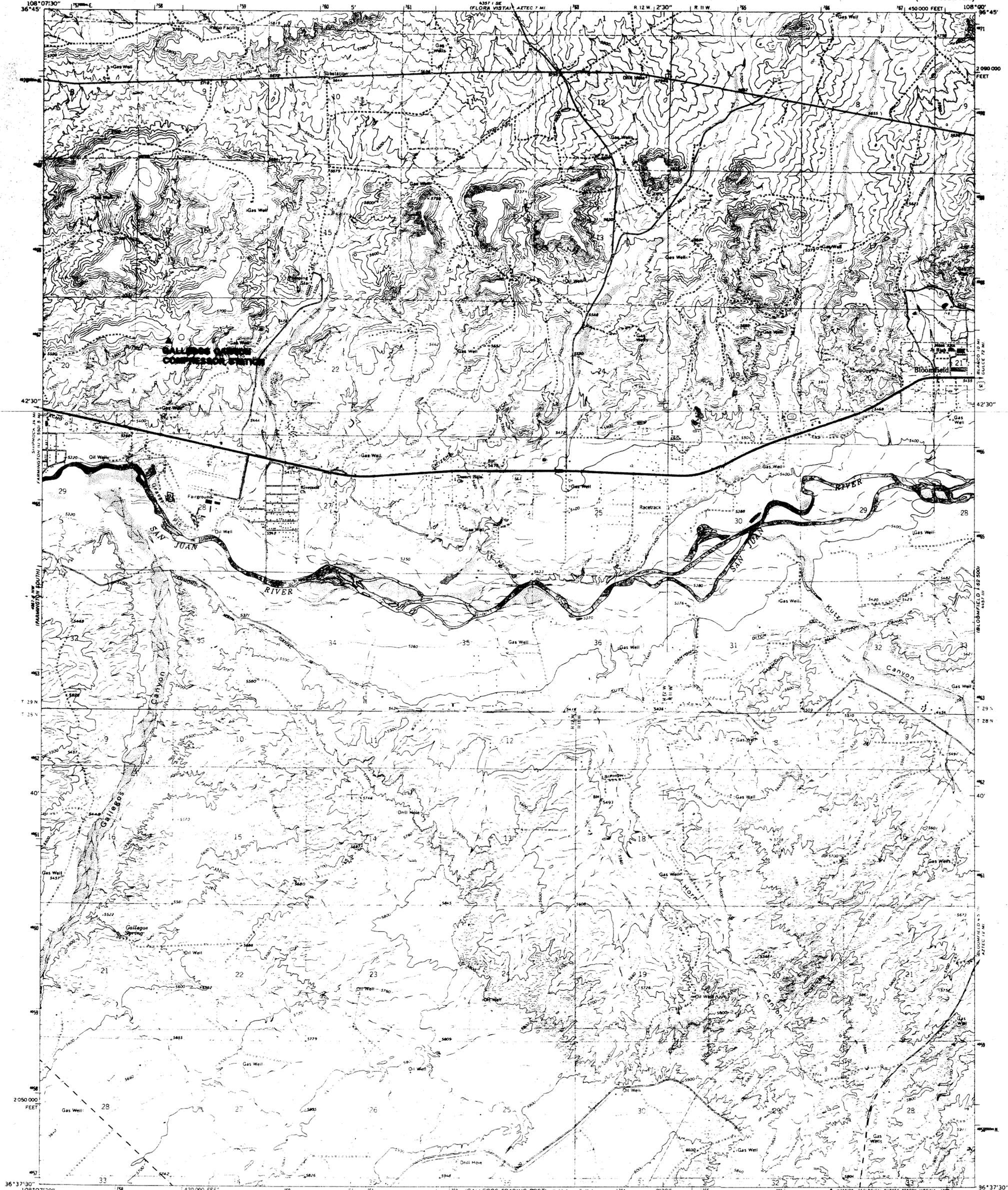
The Transportation of Dangerous Goods Act (T.D.G.A.) classification for
this product is:

Not regulated

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The Information Herein Is Given In Good Faith, But No Warranty,
Express Or Implied, Is Made. Consult The Dow Chemical Company
For Further Information.

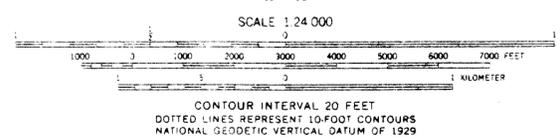
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BHP-PETROLEUM COMPRESSOR STATION LOCATION



Mapped, edited, and published by the Geological Survey
Control by USGS and NOS/NOAA, and U. S. Bureau of Reclamation
Topography by photogrammetric methods from aerial
photographs taken 1964 and by plane-table surveys of the
Bureau of Reclamation 1965. Field checked by USGS 1965
Polyconic projection. 1927 North American datum
10,000-foot grid based on New Mexico coordinate system,
west zone
1000 meter Universal Transverse Mercator grid ticks,
zone 12, shown in blue
Fine red dashed lines indicate selected fence lines
To place on the predicted North American Datum 1983
move the projection lines 2 meters north and
56 meters east as shown by dashed corner ticks

UTM GRID AND 1979 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET



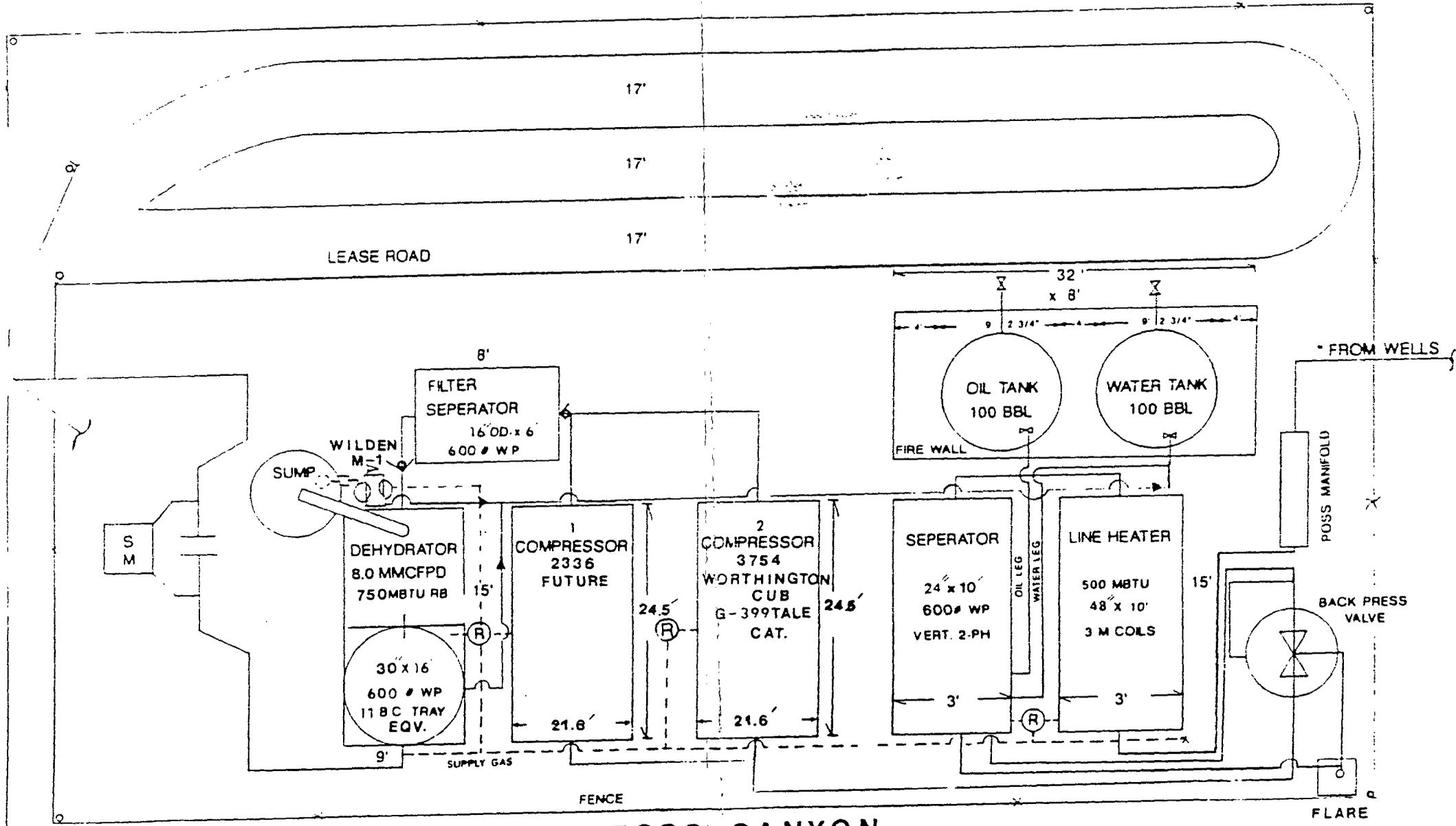
CONTOUR INTERVAL 20 FEET
DOTTED LINES REPRESENT 10-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929



ID CLASSIFICATION
— Light duty
- - - - - Unimproved dirt
— State Route
— U.S. Route
OCT 28 1991
HORN CANYON, N. MEX.
N3637 5—W10800 7 5
1965
PHOTOREVISED 1979
DMA 4357 II NE—SERIES V881

THIS MAP COMPLES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225 OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

EL PASO
3A 2



GALLEGOS CANYON
CENTRAL FACILITY
PLATE 2



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

January 17, 1992

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

CERTIFIED MAIL
RETURN RECEIPT NO. P-690-155-047

Mr. Jesse L. Roberts
BHP-Petroleum (Americas), Inc.
5847 San Felipe, Suite 3600
Houston, Texas 77057

RE: Discharge Plan GW-88
Gallegos Canyon Compressor Station
San Juan County, New Mexico

Dear Mr. Roberts:

The groundwater discharge plan GW-88 for the BHP Petroleum Gallegos Canyon Rio Vista Compressor Station located in Section 21, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico is hereby approved. The discharge plan consists of the application dated October 15, 1991.

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 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 (tanks exceeding 16 feet in diameter) shall be screened, netted or otherwise rendered nonhazardous to wildlife including migratory birds.

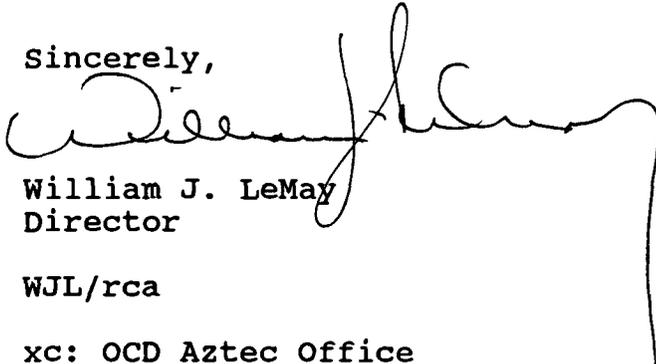
Please note that section 3-104 of the regulations requires that "When a plan has been approved, discharges must be consistent with the terms and conditions of the plan". Pursuant to Section 3-107.c. you are required to notify the Director of any facility expansion, production increase, or process modification that would result in any change in the discharge of water quality or volume.

Mr. Jesse L. Roberts
January 17, 1992
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Pursuant to Section 3-109.g.4., this plan approval is for a period of five years. This approval will expire January 17, 1997 and you should submit an application for renewal in ample time before that date.

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,

A handwritten signature in cursive script, appearing to read "William J. LeMay", with a long, sweeping tail that extends to the right and then loops back down.

William J. LeMay
Director

WJL/rca

xc: OCD Aztec Office