PERMIT 8-26-1996



ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

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NEW MEXICO EXERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

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

March 20, 1997

CERTIFIED MAIL RETURN RECEIPT NO. P-288-258-920

Mr. George Coleman Coleman Oil and Gas, Inc. P.O. Box 443 Farmington, New Mexico 87499

RE: Discharge Plan UIC-CLI-005 Permit Condition Amendment Class I Non-Hazardous Oil Field Waste Disposal Well Sunco Disposal Well No. 1 Eddy County, New Mexico

Dear Mr. Coleman:

Pursuant to the request received from Coleman Oil and Gas, Inc. (Coleman) on November 18, 1996, permit condition number 4 of the August 26, 1996 approval has been amended. Enclosed are two copies of the conditions of approval with the amended condition. 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.

Please be advised that the amendment of this plan does not relieve Coleman of liability should operations result in pollution of surface water, ground water, or the environment.

The OCD hopes that this has clarified your concern, and we appreciate your input into this process.

Sincerely,

Roger C. Anderson Environmental Bureau Chief

RCA/mwa

xc: OCD Aztec Office



NEW MEXICO ETTERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

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

March 20, 1997

CERTIFIED MAIL RETURN RECEIPT NO. P-288-258-881

Mr. George Coleman Coleman Oil and Gas, Inc. P.O. Box 443 Farmington, New Mexico 87499

RE:

Permit Condition Clarification Coleman Oil and Gas, Inc. Class I Disposal Well and Sunco Trucking Water Disposal Company San Juan County, New Mexico

Dear Mr. Coleman:

The New Mexico Oil Conservation Division (OCD) has completed reviewed of the letter dated December 23, 1996 from Curtis & Dean on behalf of Coleman Oil and Gas, Inc. (Coleman). The letter requested to modify the terms and conditions of the permits for the disposal pond and the injection well. Determinations by the OCD are provided below. Paragraph numbering corresponds to the December 23, 1996 letter.

The injection well:

- 1. Section 3109.G.4 of the Water Quality Control Commission (WQCC) states that a discharge plan shall not be approved for a period longer that five years. Therefore, the approval period will not be extended beyond five years.
- 2. The monitoring requirements of Section 5207.B.2 state that continuous monitoring devices shall be used to record injection pressure, flow rate, flow volume, and annulus pressure. Therefore, the requirements of the August 26, 1996 approval will continue to be used.

ATTACHMENT TO DISCHARGE PLAN UIC-CLI-005 APPROVAL COLEMAN OIL AND GAS, INC., CLASS I WELL DISCHARGE PLAN REQUIREMENTS (AMENDED) (March 20, 1997)

- 1. <u>Coleman Commitments:</u> Coleman will abide by all commitments submitted in the discharge plan application dated May 6, 1996, and supplemental information dated May 13, 1996 and June 21, 1996, and OCD Order SWD-457.
- 2. <u>Maximum Injection Pressure</u>: The maximum operating injection pressure at the wellhead will be 2,850 psi in accordance with OCD Order SWD-457. The injection well or system shall be equipped with a pressure limiting device which will limit the wellhead pressure on the injection well to no more than 2,850 psi. The pressure limiting device shall annually be demonstrated to operate to the satisfaction of the OCD.

Coleman shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the ground surface.

- 3. <u>Mechanical Integrity Testing</u>: In accordance with OCD testing procedures, a mechanical integrity test will be conducted on the well annually and any time the tubing is pulled or the packer is reseated. A pressure recorder will be used and copies of the chart submitted to the OCD Santa Fe Office and the OCD Aztec District Office within 30 days following the test date. The OCD will be notified prior to the test so that they may witness the test. Mechanical integrity testing charts will be maintained at Coleman for the life of the well.
- 4. <u>Annulus:</u> Until the facility operates 24 hours per day, the casing-tubing annulus will be completely filled with an inert fluid and connected to a casing differential tank with the same inert fluid to maintain a constant casing-tubing fluid level in the annulus at all times. A sight glass will be installed on the casing differential tank to monitor and record, on a daily basis, for tubing or casing leaks. Once 24 hour operation begins, the casing-tubing annulus will be completely filled with an inert fluid and a minimum pressure of 100 psi maintained. Any loss or gain of inert fluid will be documented and reported to the OCD Aztec District Office immediately.
- 5. <u>Continuous Monitoring and Recording:</u> Continuous monitoring and recording devices will be installed and mechanical charts made of injection pressure, flow rate, flow volume, and annular pressure. Mechanical charts are to be maintained at Coleman for the life of the well.
- 6. <u>Maintenance Records:</u> All routine maintenance work on the well will be recorded and maintained at Coleman for the life of the well.

- 7. <u>Wastes Permitted for Injection</u>: Injection will be limited to fluids as permitted under OCD Order SWD-457, and non-exempt non-hazardous oil field wastes as permitted under the OCD 711 facility for Sunco Trucking Water Disposal Company. All non-exempt non-hazardous oil field waste will be tested for the constituents listed below in number 9. Under the OCD 711 permit, all non-exempt non-hazardous oil field waste require approval from the OCD prior to acceptance and disposal. OCD Form C-138 shall be used to request prior approval for acceptance and disposal.
- 8. <u>Chemical Analysis of Injection Fluids</u>: The following analyses of injection fluids will be conducted on a quarterly basis:
 - a. Aromatic and halogenated volatile hydrocarbon scan by either EPA method 8010/8020 or EPA method 8240.
 - b. General water chemistry to include calcium, potassium, magnesium, sodium, bicarbonate, carbonate, chloride, sulfate total dissolved solids (TDS), pH, and conductivity.
 - c. Heavy metals using the ICAP scan (EPA method 6010) and Arsenic and Mercury using atomic absorption (EPA methods 7060 and 7470).

Records of all analyses will be maintained at Coleman for the life of the well.

- 9. <u>Quarterly Reporting</u>: The following reports will be signed and certified in accordance with WQCC section 5101.H. and submitted quarterly to both the OCD Santa Fe and Aztec Offices:
 - a. Results of the chemical analysis of the injection fluids (number 9).
 - b. Monthly average, maximum and minimum values for injection pressures; flow rate and flow volume; and, annular pressure.
 - c. Monthly volumes of injected Class I non-exempt non-hazardous oil field waste (OCD Form C-138).
- 10. <u>Monthly Reporting</u>: Monthly reporting of the disposal of produced water will be in accordance with OCD Rule 1115 which requires monthly submittal of OCD Form C-115 to the OCD Santa Fe Office.
- 11. <u>Drum Storage:</u> All drums containing materials other than fresh water must be stored on an impermeable pad with curbing. All empty drums should be stored on their sides with the bungs in place and lined up on a horizontal plane. Chemicals in other containers such as sacks or buckets must also be stored on an impermeable pad with curbing.

Page 2 of 4

- 12. <u>Process Areas:</u> 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.
- 13. <u>Above Ground Tanks:</u> 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 associated with the well or modifications to existing facilities associated with the well must place the tank on an impermeable type pad within the berm.
- 14. <u>Above Ground Saddle Tanks</u>: 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.
- 15. <u>Labeling:</u> All tanks, drum, and other containers should be clearly labeled to identify their contents and other emergency information necessary if the tank were to rupture, spill, or ignite.
- 16. <u>Below Grade Tanks/Sumps</u>: 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.
- 17. <u>Underground Process/Wastewater Lines:</u> All underground process/wastewater, and brine transfer pipelines must be tested to demonstrate their mechanical integrity at present and then every 5 years there after. 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.
- 18. <u>Well Workover Operations:</u> OCD approval will be obtained from the Director prior to performing remedial work or any other workover. Approval will be requested on OCD Form C-103 "Sundry Notices and Reports on Wells" (OCD Rule 1103.A.) with appropriate copies sent to the OCD Aztec District Office.
- 19. <u>Housekeeping:</u> All systems designed for spill collection/prevention, and leak detection will be inspected daily to ensure proper operation and to prevent overtopping or system failure.
- 20. <u>Spill Reporting</u>: All spills/releases shall be reported pursuant to OCD Rule 116. and WQCC 1203. to the OCD Aztec District Office.

Coleman shall immediately notify the Supervisor of the Aztec District Office and the Environmental Bureau of the Division of the failure of the tubing, casing, or packer in said well and shall take such steps as may be timely and necessary to correct such failure or leakage.

- 21. <u>Transfer of Discharge Plan</u>: The OCD will be notified prior to any transfer of ownership, control, or possession of the well. A written commitment to comply with the terms and conditions of the previously approved discharge plan and a bond must be submitted by the purchaser and approved by the OCD prior to transfer.
- 22. <u>Closure:</u> The OCD will be notified when operations of the well are discontinued for a period in excess of six months. Prior to closure of the well 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.
- 23. <u>Plugging Bond and /or Letter of Credit:</u> Coleman shall have in effect, for the life of the well, a Division approved plugging bond and/or letter of credit for the estimated amount required to plug the well according to the proposed closure plan and adjusted for inflation. The required plugging bond and/or letter of credit shall be adjusted at the time of discharge plan renewal.
- 24. <u>Training</u>: All personnel associated with operations at the Coleman Class I disposal well will have appropriate training in accepting, processing, and disposing of Class I nonexempt non-hazardous oil field waste to insure proper disposal. All training documentation shall be maintained at Coleman for the life of the well.
- 25. <u>Certification:</u> Coleman, by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein. Coleman further acknowledges that these conditions and requirements of this permit modification may be changed administratively by the Division for good cause shown as necessary to protect fresh water, human health and the environment.

Accepted:

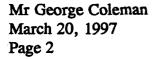
Title

COLEMAN OIL AND GAS, INC.

by___

Page 4 of 4

6 4 5 3



- 3. The monitoring requirements of Section 5207.B.1 state that the discharger shall provide analysis of the injection fluids at least quarterly. Therefore, the request to change to annual testing will not be allowed.
- 4. The OCD guidelines for berming require containment of one-third more that the total volume of the largest tank or all interconnected tanks. Even though Coleman's interconnected pits\tanks are compartmentalized, containment of one-third more that the total volume of all interconnected tanks is still required. Required berming may include berming of the entire facility.
- 5. The policy of the OCD is to always solicits input from operators regarding additional facility requirements.
- 6. Coleman submitted a request, dated November 18, 1996, to the OCD to install a casing differential tank on the back side of the well to monitor for leaks instead of the one hundred psi minimum required in the August 26, 1996 approval. Coleman's request will be allowed and is addressed in a separate letter.

The disposal pond:

- 7. Section IX.B.2 of Order Number 9485-A states that no oil shall be allowed in the pond(s). Incidental oil associated with produced water will be removed as soon as possible from the pond(s).
- 8. Testing under number eight of Landfarm Operation of Order Number R-10756 will meet testing requirements required under number nine of the August 26, 1996 approval.
- 9. If systems become inoperative and cannot be returned to operation within 24 hours, the OCD Aztec District Office will be notified immediately.
- 10. Berming requirements at the disposal facility are the same as the injection well (see number four above).
- 11. The OCD policy is the same for disposal facilities (see number five above).
- 12. Section XII.B.1.&2 of OCD Order Number R-9485-A states that the listed requirements for hydrogen sulfide concentrations are needed to prevent harm by hydrogen sulfide gas. Therefore, the required concentrations levels will be adhered to.

Mr George Coleman March 20, 1997 Page 3

13. During the location of a leak in the primary liner, no new fluids will be introduced to the pond. Sump fluids may be pumped back into the pond as part of the leak location process. The introduction of new fluids may proceed only after the leak has been located and repaired.

If have any questions, please call me at (505) 827-7152.

Sincerely,

Roger C. Anderson Environmental Bureau Chief

RCA/mwa

xc: OCD Aztec Office

STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

August 26, 1996

CERTIFIED MAIL RETURN RECEIPT NO. Z-765-962-950

Mr. George Coleman Coleman Oil and Gas, Inc. P.O. Box 443 Farmington, New Mexico 87499

RE: Approval of Discharge Plan UIC-CLI-005 (Formerly GW-235) Class I Non-Hazardous Oil Field Waste Disposal Well Coleman Oil and Gas, Inc. Sunco Disposal Well No. 1 Unit Letter E, Sec 2, Twn 29 N, Rng 12 W San Juan County, New Mexico

Dear Mr. Coleman:

The discharge plan UIC-CLI-005 for the Coleman Oil and Gas (Coleman) Class I non-exempt non-hazardous oil field waste disposal well located in unit letter E, Section 2, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico, is hereby approved under the conditions contained in the enclosed attachment. The application consists of the original New Mexico Oil Conservation Division (OCD) Order SWD-457 issued January 13, 1992, the discharge plan application for a Class I disposal well dated May 6, 1996, and supplemental information dated May 13, 1996 and June 21, 1996. Enclosed are two copies of the conditions of approval. Please sign and return one copy to the OCD Santa Fe Office within five working days of receipt of this letter.

The discharge plan was submitted pursuant to Section 5101.B.3 of the New Mexico Water Quality Control Commission (WQCC) Regulations. It is approved pursuant to Sections 5101.A and 3109.C. 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 Coleman of liability should operations result in pollution of surface or ground waters, or the environment.

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

The monitoring and reporting shall be as specified in the above referenced materials. Please note that Section 3104 of the regulations requires that when a plan has been approved, discharges must be consistent with the terms and conditions of the plan. Pursuant to Section 3107.C Coleman is required to notify the Director of any facility expansion, production increase, pressure 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 (5) years. This approval will expire August 26, 2001, and Coleman should submit an application for renewal in ample time before this date. Note that under Section 5101.G of the regulations, if a discharger submits a discharge plan renewal application at least 180 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.

The discharge plan application for the Coleman Class I non-hazardous oil field waste disposal well 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 \$1,380 for Class I injection wells. The OCD has not received the \$50 filing fee or the \$1,380 flat fee. The \$50 dollar filing fee is due upon receipt of this approval. The flat fee of \$1,380 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 and subsequent installments due on this date of each calendar year.

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

Sincerely, William J. 1 éMav Director WJL/mwa

Attachment xc: OCD Aztec Office David Catanach, UIC Director, OCD Santa Fe

ATTACHMENT TO DISCHARGE PLAN UIC-CLI-005 APPROVAL COLEMAN OIL AND GAS, INC., CLASS I WELL DISCHARGE PLAN REQUIREMENTS

- 1. <u>Payment of Discharge Plan Fees:</u> The \$50 dollar filing fee is due upon receipt of this approval. The \$1,380 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. <u>Coleman Commitments:</u> Coleman will abide by all commitments submitted in the discharge plan application dated May 6, 1996, and supplemental information dated May 13, 1996 and June 21, 1996, and OCD Order SWD-457.
- 3. <u>Maximum Injection Pressure</u>: The maximum operating injection pressure at the wellhead will be 2,850 psi in accordance with OCD Order SWD-457. The injection well or system shall be equipped with a pressure limiting device which will limit the wellhead pressure on the injection well to no more than 2,850 psi. The pressure limiting device shall annually be demonstrated to operate to the satisfaction of the OCD.

Coleman shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the ground surface.

- 4. <u>Mechanical Integrity Testing</u>: In accordance with OCD testing procedures, a mechanical integrity test will be conducted on the well annually and any time the tubing is pulled or the packer is reseated. A pressure recorder will be used and copies of the chart submitted to the OCD Santa Fe Office and the OCD Aztec District Office within 30 days following the test date. The OCD will be notified prior to the test so that they may witness the test. Mechanical integrity testing charts will be maintained at Coleman for the life of the well
- 5. <u>Annulus:</u> The casing-tubing annulus will be filled with an inert fluid and a minimum pressure of 100 psi maintained.
- 6. <u>Continuous Monitoring and Recording</u>: Continuous monitoring and recording devices will be installed and mechanical charts made of injection pressure, flow rate, flow volume, and annular pressure. Mechanical charts are to be maintained at Coleman for the life of the well.

7. <u>Maintenance Records</u>: All routine maintenance work on the well will be recorded and maintained at Coleman for the life of the well.

8. <u>Wastes Permitted for Injection</u>: Injection will be limited to fluids as permitted under OCD Order SWD-457, and non-exempt non-hazardous oil field wastes as permitted under the OCD 711 facility for Sunco Trucking Water Disposal Company. All non-exempt non-hazardous oil field waste will be tested for the constituents listed below in number 9. Under the OCD 711 permit, all non-exempt non-hazardous oil field waste require approval from the OCD prior to acceptance and disposal. OCD Form C-138 shall be used to request prior approval for acceptance and disposal.

9. <u>Chemical Analysis of Injection Fluids</u>: The following analyses of injection fluids will be conducted on a quarterly basis:

a. Aromatic and halogenated volatile hydrocarbon scan by either EPA method 8010/8020 or EPA method 8240.

b. General water chemistry to include calcium, potassium, magnesium, sodium, bicarbonate, carbonate, chloride, sulfate total dissolved solids (TDS), pH, and conductivity.

c. Heavy metals using the ICAP scan (EPA method 6010) and Arsenic and Mercury using atomic absorption (EPA methods 7060 and 7470).

Records of all analyses will be maintained at Coleman for the life of the well.

- 10. <u>Quarterly Reporting</u>: The following reports will be signed and certified in accordance with WQCC section 5101.H. and submitted quarterly to both the OCD Santa Fe and Aztec Offices:
 - a. Results of the chemical analysis of the injection fluids (number 9).
 - b. Monthly average, maximum and minimum values for injection pressures; flow rate and flow volume; and, annular pressure.

c. Monthly volumes of injected Class I non-exempt non-hazardous oil field waste (OCD Form C-138).

11. <u>Monthly Reporting</u>: Monthly reporting of the disposal of produced water will be in accordance with OCD Rule 1115 which requires monthly submittal of OCD Form C-115 to the OCD Santa Fe Office.

- 12. <u>Drum Storage:</u> All drums containing materials other than fresh water must be stored on an impermeable pad with curbing. All empty drums should be stored on their sides with the bungs in place and lined up on a horizontal plane. Chemicals in other containers such as sacks or buckets must also be stored on an impermeable pad with curbing.
- 13. <u>Process Areas</u>: 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.
- 14. <u>Above Ground Tanks</u>: 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 associated with the well or modifications to existing facilities associated with the well must place the tank on an impermeable type pad within the berm.
- 15. <u>Above Ground Saddle Tanks</u>: 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.
- 16. <u>Labeling</u>: All tanks, drum, and other containers should be clearly labeled to identify their contents and other emergency information necessary if the tank were to rupture, spill, or ignite.
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- 19. <u>Well Workover Operations:</u> OCD approval will be obtained from the Director prior to performing remedial work or any other workover. Approval will be requested on OCD Form C-103 "Sundry Notices and Reports on Wells" (OCD Rule 1103.A.) with appropriate copies sent to the OCD Aztec District Office.

- 20. <u>Housekeeping</u>: All systems designed for spill collection/prevention, and leak detection will be inspected daily to ensure proper operation and to prevent overtopping or system failure.
- 21. <u>Spill Reporting</u>: All spills/releases shall be reported pursuant to OCD Rule 116. and WQCC 1203. to the OCD Aztec District Office.

Coleman shall immediately notify the Supervisor of the Aztec District Office and the Environmental Bureau of the Division of the failure of the tubing, casing, or packer in said well and shall take such steps as may be timely and necessary to correct such failure or leakage.

- 22. <u>Transfer of Discharge Plan</u>: The OCD will be notified prior to any transfer of ownership, control, or possession of the well. A written commitment to comply with the terms and conditions of the previously approved discharge plan and a bond must be submitted by the purchaser and approved by the OCD prior to transfer.
- 23. <u>Closure:</u> The OCD will be notified when operations of the well are discontinued for a period in excess of six months. Prior to closure of the well 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.
- 24. <u>Plugging Bond and /or Letter of Credit:</u> Coleman shall have in effect, for the life of the well, a Division approved plugging bond and/or letter of credit for the estimated amount required to plug the well according to the proposed closure plan and adjusted for inflation. The required plugging bond and/or letter of credit shall be adjusted at the time of discharge plan renewal.
- 25. <u>Training</u>: All personnel associated with operations at the Coleman Class I disposal well will have appropriate training in accepting, processing, and disposing of Class I non-exempt non-hazardous oil field waste to insure proper disposal. All training documentation shall be maintained at Coleman for the life of the well.
- 26. <u>OCD Inspections</u>: Additional requirements may be placed on the well and associated facilities based upon results from OCD inspections.

Ren Y

27. <u>Certification:</u> Coleman Oil and Gas, Inc., by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein. Coleman Oil and Gas, Inc. further acknowledges that these conditions and requirements of this permit modification may be changed administratively by the Division for good cause shown as necessary to protect fresh water, human health and the environment.

Accepted:

COLEMAN OIL AND GAS, INC.

by___

Title

ATTACHMENT TO DISCHARGE PLAN UIC-CLI-005 APPROVAL COLEMAN OIL AND GAS, INC., CLASS I WELL DISCHARGE PLAN REQUIREMENTS

- 1. <u>Payment of Discharge Plan Fees:</u> The \$50 dollar filing fee is due upon receipt of this approval. The \$1,380 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. <u>Coleman Commitments:</u> Coleman will abide by all commitments submitted in the discharge plan application dated May 6, 1996, and supplemental information dated May 13, 1996 and June 21, 1996, and OCD Order SWD-457.
- 3. <u>Maximum Injection Pressure:</u> The maximum operating injection pressure at the wellhead will be 2,850 psi in accordance with OCD Order SWD-457. The injection well or system shall be equipped with a pressure limiting device which will limit the wellhead pressure on the injection well to no more than 2,850 psi. The pressure limiting device shall annually be demonstrated to operate to the satisfaction of the OCD.

Coleman shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the ground surface.

- 4. <u>Mechanical Integrity Testing</u>: In accordance with OCD testing procedures, a mechanical integrity test will be conducted on the well annually and any time the tubing is pulled or the packer is reseated. A pressure recorder will be used and copies of the chart submitted to the OCD Santa Fe Office and the OCD Aztec District Office within 30 days following the test date. The OCD will be notified prior to the test so that they may witness the test. Mechanical integrity testing charts will be maintained at Coleman for the life of the well
- 5. <u>Annulus:</u> The casing-tubing annulus will be filled with an inert fluid and a minimum pressure of 100 psi maintained.
- 6. <u>Continuous Monitoring and Recording</u>: Continuous monitoring and recording devices will be installed and mechanical charts made of injection pressure, flow rate, flow volume, and annular pressure. Mechanical charts are to be maintained at Coleman for the life of the well.

- 7. <u>Maintenance Records:</u> All routine maintenance work on the well will be recorded and maintained at Coleman for the life of the well.
- 8. <u>Wastes Permitted for Injection</u>: Injection will be limited to fluids as permitted under OCD Order SWD-457, and non-exempt non-hazardous oil field wastes as permitted under the OCD 711 facility for Sunco Trucking Water Disposal Company. All non-exempt non-hazardous oil field waste will be tested for the constituents listed below in number 9. Under the OCD 711 permit, all non-exempt non-hazardous oil field waste require approval from the OCD prior to acceptance and disposal. OCD Form C-138 shall be used to request prior approval for acceptance and disposal.
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 - b. General water chemistry to include calcium, potassium, magnesium, sodium, bicarbonate, carbonate, chloride, sulfate total dissolved solids (TDS), pH, and conductivity.
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- 11. <u>Monthly Reporting</u>: Monthly reporting of the disposal of produced water will be in accordance with OCD Rule 1115 which requires monthly submittal of OCD Form C-115 to the OCD Santa Fe Office.

- 12. <u>Drum Storage:</u> All drums containing materials other than fresh water must be stored on an impermeable pad with curbing. All empty drums should be stored on their sides with the bungs in place and lined up on a horizontal plane. Chemicals in other containers such as sacks or buckets must also be stored on an impermeable pad with curbing.
- 13. <u>Process Areas</u>: 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.
- 14. <u>Above Ground Tanks</u>: 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 associated with the well or modifications to existing facilities associated with the well must place the tank on an impermeable type pad within the berm.
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- 16. <u>Labeling</u>: All tanks, drum, and other containers should be clearly labeled to identify their contents and other emergency information necessary if the tank were to rupture, spill, or ignite.
- 17. <u>Below Grade Tanks/Sumps:</u> 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.
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- 20. <u>Housekeeping:</u> All systems designed for spill collection/prevention, and leak detection will be inspected daily to ensure proper operation and to prevent overtopping or system failure.
- 21. <u>Spill Reporting:</u> All spills/releases shall be reported pursuant to OCD Rule 116. and WQCC 1203. to the OCD Aztec District Office.

Coleman shall immediately notify the Supervisor of the Aztec District Office and the Environmental Bureau of the Division of the failure of the tubing, casing, or packer in said well and shall take such steps as may be timely and necessary to correct such failure or leakage.

- 22. <u>Transfer of Discharge Plan:</u> The OCD will be notified prior to any transfer of ownership, control, or possession of the well. A written commitment to comply with the terms and conditions of the previously approved discharge plan and a bond must be submitted by the purchaser and approved by the OCD prior to transfer.
- 23. <u>Closure:</u> The OCD will be notified when operations of the well are discontinued for a period in excess of six months. Prior to closure of the well 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.
- 24. <u>Plugging Bond and /or Letter of Credit</u>: Coleman shall have in effect, for the life of the well, a Division approved plugging bond and/or letter of credit for the estimated amount required to plug the well according to the proposed closure plan and adjusted for inflation. The required plugging bond and/or letter of credit shall be adjusted at the time of discharge plan renewal.
- 25. <u>Training</u>: All personnel associated with operations at the Coleman Class I disposal well will have appropriate training in accepting, processing, and disposing of Class I non-exempt non-hazardous oil field waste to insure proper disposal. All training documentation shall be maintained at Coleman for the life of the well.
- 26. <u>OCD Inspections:</u> Additional requirements may be placed on the well and associated facilities based upon results from OCD inspections.

27. <u>Certification:</u> Coleman Oil and Gas, Inc., by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein. Coleman Oil and Gas, Inc. further acknowledges that these conditions and requirements of this permit modification may be changed administratively by the Division for good cause shown as necessary to protect fresh water, human health and the environment.

Accepted:

COLEMAN OIL AND GAS, INC.

by Steam E Columna Title President



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

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

March 20, 1997

CERTIFIED MAIL RETURN RECEIPT NO. P-288-258-920

Mr. George Coleman Coleman Oil and Gas, Inc. P.O. Box 443 Farmington, New Mexico 87499

RE: Discharge Plan UIC-CLI-005 Permit Condition Amendment Class I Non-Hazardous Oil Field Waste Disposal Well Sunco Disposal Well No. 1 Eddy County, New Mexico

Dear Mr. Coleman:

Pursuant to the request received from Coleman Oil and Gas, Inc. (Coleman) on November 18, 1996, permit condition number 4 of the August 26, 1996 approval has been amended. Enclosed are two copies of the conditions of approval with the amended condition. 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.

Please be advised that the amendment of this plan does not relieve Coleman of liability should operations result in pollution of surface water, ground water, or the environment.

The OCD hopes that this has clarified your concern, and we appreciate your input into this process.

Sincerely,

Roger C. Anderson Environmental Bureau Chief

RCA/mwa

xc: OCD Aztec Office

ATTACHMENT TO DISCHARGE PLAN UIC-CLI-005 APPROVAL COLEMAN OIL AND GAS, INC., CLASS I WELL DISCHARGE PLAN REQUIREMENTS (AMENDED) (March 20, 1997)

- 1. <u>Coleman Commitments:</u> Coleman-will_abide by all commitments submitted in the discharge plan application dated May 6, 1996, and supplemental information dated May 13, 1996 and June 21, 1996, and OCD Order SWD-457.
- 2. <u>Maximum Injection Pressure</u>: The maximum operating injection pressure at the wellhead will be 2,850 psi in accordance with OCD Order SWD-457. The injection well or system shall be equipped with a pressure limiting device which will limit the wellhead pressure on the injection well to no more than 2,850 psi. The pressure limiting device shall annually be demonstrated to operate to the satisfaction of the OCD.

Coleman shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the ground surface.

- 3. <u>Mechanical Integrity Testing</u>: In accordance with OCD testing procedures, a mechanical integrity test will be conducted on the well annually and any time the tubing is pulled or the packer is reseated. A pressure recorder will be used and copies of the chart submitted to the OCD Santa Fe Office and the OCD Aztec District Office within 30 days following the test date. The OCD will be notified prior to the test so that they may witness the test. Mechanical integrity testing charts will be maintained at Coleman for the life of the well.
- 4. <u>Annulus:</u> Until the facility operates 24 hours per day, the casing-tubing annulus will be completely filled with an inert fluid and connected to a casing differential tank with the same inert fluid to maintain a constant casing-tubing fluid level in the annulus at all times. A sight glass will be installed on the casing differential tank to monitor and record, on a daily basis, for tubing or casing leaks. Once 24 hour operation begins, the casing-tubing annulus will be completely filled with an inert fluid and a minimum pressure of 100 psi maintained. Any loss or gain of inert fluid will be documented and reported to the OCD Aztec District Office immediately.
- 5. <u>Continuous Monitoring and Recording:</u> Continuous monitoring and recording devices will be installed and mechanical charts made of injection pressure, flow rate, flow volume, and annular pressure. Mechanical charts are to be maintained at Coleman for the life of the well.
- 6. <u>Maintenance Records:</u> All routine maintenance work on the well will be recorded and maintained at Coleman for the life of the well.

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- 10. <u>Monthly Reporting</u>: Monthly reporting of the disposal of produced water will be in accordance with OCD Rule 1115 which requires monthly submittal of OCD Form C-115 to the OCD Santa Fe Office.
- 11. Drum Storage: All drums containing materials other than fresh water must be stored on an impermeable pad with curbing. All empty drums should be stored on their sides with the bungs in place and lined up on a horizontal plane. Chemicals in other containers such as sacks or buckets must also be stored on an impermeable pad with curbing.

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Accepted:

COLEMAN OIL AND GAS, INC.

by___

Title

ATTACHMENT TO DISCHARGE PLAN UIC-CLI-005 APPROVAL COLEMAN OIL AND GAS, INC., CLASS I WELL DISCHARGE PLAN REQUIREMENTS (AMENDED) (March 20, 1997)

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2

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Accepted:

COLEMAN OIL AND GAS, INC.

Title

Page 4 of 4

by_





ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

September 8, 1997

MIKE T.

CERTIFIED MAIL RETURN RECEIPT NO. P-288-258-969

Mr. Kenneth V. Huseman Key Energy Group, Inc. 6010 Hwy. 191, Suite 212 Odessa, TX 79762

RE: Transfer of Sunco Trucking Water Disposal Co., Class I Non-Hazardous Disposal Well to Key Four Corners, Inc. SW/4 NW/4 of Section 2, Township 29 North, Range 12 West, NMPM San Juan County, New Mexico Discharge Plan UIC-CLI-005

Dear Mr. Huseman:

The New Mexico Oil Conservation Division (OCD) has received the request from Key Four Corners, Inc. (Key) dated August 25, 1997 for the transfer of ownership of the Sunco Water Disposal Company Class I Non-Hazardous Disposal Well, Discharge Plan UIC-CLI-005, located in SW/4 NW/4 of Section 2, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico, to Key Four Corners, Inc. The request is hereby approved in accordance with Water Quality Control Commission Regulation 5101.I.

In addition, Key must file form C-104 with the OCD for a change of operator. A replacement bond reflecting the new operator must also be filed with the OCD. Until such financial assurance is in place, the transferor's (Sunco Water Disposal Company) financial assurance will not be released.

All modifications and alternatives to the approved disposal methods must receive prior OCD approval. Key is required to notify the Director of any facility expansion or process modification and to file the appropriate materials with the Division.

Please be advised, approval of this transfer does not relieve Key of liability should their operation result in pollution of surface waters, ground water or the environment.

Mr. Kenneth V. Huseman September 8, 1997 Page 2

Please be advised that all tanks exceeding 16 feet in diameter and exposed pits, ponds or lagoons must be screened, netted or otherwise rendered nonhazardous to migratory birds. Upon written application by the permittee, an exception to screening, netting, or covering may be granted by the district supervisor upon a showing that an alternative method will protect migratory birds or that the facility is not hazardous to migratory birds. In addition, OCD Rule 310 prohibits oil from being stored or retained in earthen reservoir, or in open receptacles.

If there are any questions, please contact Mark Ashley at (505) 827-7155.

Sincerely, William J./LeMay Director WJL/mwa

 xc: OCD Aztec Office
 Mr. George E. Colman, Sunco Trucking Co. <u>CERTIFIED MAIL RETURN RECEIPT NO. P-288-258-970</u>
 Mr. Ron Fellabaum, Sunco Trucking Co./Key Four Corners, Inc. <u>CERTIFIED MAIL RETURN RECEIPT NO. P-288-258-971</u> STATE OF NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

1.1

OIL CONSERVATION DIVISION PO BOX 2088 SANTA FE, NM 87504-2088 FORM C-108 Revised 7-1-81

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: Application qualifies	Secondary Recovery a for administrative approval?	Pressure Maintenance	X Disposal	Storage				
Ц.		leman Oil & Gas	Marine and the second second	an an the state of t					
8 9 7978	ADDRESS:	G. Box 443 Farmin	ngton ,NM 87499						
	CONTACT PARTY	Chuck Badsgard		PHQNE: _3	27-0416				
ш.	WELL DATA: Complete the data required on the reverse side of this form for each well processed for injection. Additional sheets may be attached if necessary.								
IV.	Is this an expansion If yes, give the Divi	of an existing project: $\frac{X}{X}$ Yesision order number authorizing	the project #SWD-457	•					
v.			hin two miles of any proposed in This circle identifies the well's		alf mile radius				
VI.	Such data shall inclu	f data on all wells of public reco ide a description of each well's any plugged well illustrating all	ord within the area of review whi s type, construction, date drilled l plugging detail.	ch penetrate the proposed , location, depth, record	injection zone. of completion,				
VII.	Attach data on the p	proposed operation, including:							
in di gon en	 Whether the syst Proposed averag Sources and an a reinjected production If injection is for 	tem is open or closed; e and maximum injection press appropriate analysis of injectio ced water; and r disposal purposes into a zone l analysis of the disposal zone	l volume of fluids to be injected sure; in fluid and compatibility with th not productive of oil or gas at formation water (may be measu	e receiving formation if o	proposed well,				
*VIII.	and depth. Give the waters with total dis	e geologic name, and depth to l	a zone including appropriate lithe bottom of all underground source of 10,000 mg/1 or less) overlyin ying the injection interval.	es of drinking water (aqui	ifers containing				
IX.	Describe the propos	ed stimulation program, if any	Ι.						
* X.	Attach appropriate resubmitted.)	logging and test data on the w	vell. (If well logs have been fi	led with the Division, th	ey need not be				
* XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.								
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.								
XIII.	Applicants must con	mplete the "Proof of Notice" s	ection on the reverse side of thi	s form.					
XIV.	Certification: I here knowledge and beli		on submitted with this application	on is true and correct to	the best of my				
e Secondaria Secondaria	NAME: Ch	nuck Badsgard	דודו די	Vice-President	t 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				

If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstance of the earlier submittal.

DISTRIBUTION: Griginal and one copy to Santa Fe with one copy to the appropriate District Office

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

(1) Lease name; Well No.; Location by Section, Township, and Range; and footage location within the section.

(2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such a top was determined.

ENBIC :

- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, PO Box 2088, Santa Fe, NM 87504-2088 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

OIL CONSERVATION DIVISION STATE OF NEW MEXICO 2040 S. PACHECO SANTA FE NEW MEXICO 87505

in the second second

APPLICATION FOR DISPOSAL WELL MODIFICATION FROM CLASS II TO CLASS I

> COLEMAN OIL & GAS INC. P.O. BOX 443 FARMINGTON NM 87499 ATTN: CHUCK BADSGARD PHONE: 505-327-0416

PREPARED BY: CREATIVE FUTURE TECHNOLOGIES P.O. BOX 364 FARMINGTON NM 87499 PHONE: 505-632-0662

MAY 3, 1996

TABLE OF CONTENTS

T.-., Purpose Operator Information II. III. Well Data • IV. Expansion Map of One Mile Radius v. VI. Area of Review Well Data VII. Proposed Operation VIII.Injection Zone Data IX. Stimulation Program Well Test Data x. XI. Fresh Water Data XII. Affirmitive Statement & Contingency Plan XIII.Proof of Notice XIV. Certification Attachments xv.

I. Purpose

This discharge plan proposes to reclassify the existing Coleman Oil and Gas disposal well from a Class II to a Class I facility. This will allow additional sources of Oil & Gas produced wastes at this commercial facility however shall still be RCRA exempt:

II. Operator

Coleman Oil & Gas P.O. Box 443 Farmington NM 87499 Attn: Chuck Badsgard Phone: 505-327-0416

III. Well Data

- A. Description
 - Lease name; Sunco Disposal Well#1 Location; Section 2, T29N, R12W Drawing; See attached"Exhibit A"

and the second second

- 2.) Casing and Cementing; surface casing is 8 5/8[#] 24# K-55 set at 209' in 12-1/2" hole with 150 sacks of B cement 2% CACL₂ and 1/4# flocel circulated back to surface taking 180 cubic feet, long string 5-1/2" 15.5# K-55 set at 4762' with DV tool at 2244.17' cementing; first stage with 230 sx 65/35 Pozmix, 6% gel 5# sx Gilsonite, 1/4# sx Celoflake, and tailed with 265 sx class"B" with 5# sx Gilsonite and 1/4# Celoflake; second stage was cemented with 465 sx 65/35 Pozmix 6% gel and tailed with 50 sx class "B" neat cement with 2% Calcium Chloride. See attached "Exhibit B #1
- 3.) Tubing Size and Depth; 2-7/8" J-55 8rd plastic lined set at 4281'; See attached "Exhibit B #2"
- 4.) Packer Information; 5-1/2' Arrow model XL-W retrievable seal bore with plastic coated bottom 2.688" seal bore set at 4282'
- B. Formation-

1.) Point Lookout 4380' to 4480'

- 2.) Interval perforated at 4350' to 4460' with 2 SPF and 220 holes; See attached"Exhibit C"
- 3.) Well was drilled for injection only.
- 4.) No other perforations.

5.) The depth of the next higher oil and gas producing zone is Pictured Cliffs at 2285; and the next lower is the top of the Dakota at 6550'.

IV. Expansion of Existing Well

A. Currently operating under order #SWD-457

V. Map Identifying Leases

A. 1/2 Mile radius; See attached "Exhibit D" B. One mile radius; See attached "Exhibit D"

VI. Area of Review Well Data

A. Chart; See attached "Exhibit E"

B. Hydrogeological Calculation; See attached "Exhibit F"

VII. Proposed Operation

- 1.) Injection rate; 2000-2800 BPD
- 2.) System; open
- 3.) Injection pressure; 2850 PSI; See attached "Exhibit G"
- 4.) Water sources shall include Oil & Gas produced Class I non-hazardous RCRA exempt; See attached "Exhibit H"
- 5.) Injection zone does not produce oil and gas and has an estimated TDS of 17,180 MG/L based on an analysis taken from the McGrath #4 well located in Unit B, Section 34, T30N, R12W; See attached "Exhibit I"

VIII. Injection Zone Data

The injection zone is the Point Lookout Sandstone of the Mesa Verde formation. It is a light to medium gray angular to subangular, very fine grained sandstone with laminations of light to dark gray carbonaceous shale. It has a maximum porosity of 13 to 14% with an average of 10%. The average thichness is 100 feet and is at the depth of 4380' to 4480'. The underground water sources are the Nacimiento which is exposed at the surface and the Ojo Alamo which occurs from 500' to 700'; See attached "Exhibit J"

IX. Stimulation Program

The proposed stimulation program is to breakdown the perforated interval 4380' to 4480' with 5,000 to 7,500 gallons of 15% HCL and ball sealers.

X. Well Test Data

This data has previously been submitted.

XI. Fresh Water Data

The State Engineers Office shows one water well' within one mile of the proposed well which was drilled in the SE,SE of Section 34,T30N,R12W in 1977 and was capped with a welded steel plate. There is no current information available.

XII. Affirmative Statement & Contingency Plan

We have examined the geologic data availible and there is no apparent evidence of open faults or any other hydrologic connection between the Point Lookout formation and any underground source of drinking water.

In the accidental event of the cross transfer of disposed waters and fresh water the source will be stopped immediatly upon detection and take the steps necessary to provide the extraction and monitoring equipment.

XIII. Proof of Notification

The public notice was previously listed: See attached "Exhibit K"

XIV. Certification

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

A CARLES AND A CARLES AND A CARLES

______ TITLE: Vice - President NAME: Chark BADSGARD Thul Bacharand DATE: 5/6/94 SIGNATURE:

<u>ATTACHMENTS</u>

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Exhibit	A the first the first of the second
Exhibit	B #1
• Exhibit	B #2
Exhibit	C
Exhibit	D
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Coleman Oil & Gas Sunco Well #1 Unit E, Section 2, T29N, R12W San Juan County, New Mexico

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DRILLING HISTORY

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02-02-92 Ran 138 jts 15.5# K-55 ST&C and LT&C casing measuring 4768.40' and landed at 4762' KB. Ran centralizers mid first joint, top of 3rd, 5th, 7th, 9th, 11th, 67th, and 69th joints. DV tool was run in top of 68th joint and is at 2244.17' KB. Ran cement basket above and below DV tool. Rig up Western Company and cemented 1st stage with 230 sx 65/35 Pozmix, 6% gel, 5 #/sx gilsonite, and 1/4#/sx celoflake and tailed in with 265 sx Class "B" with 5 #/sx gilsonite and 1/4#/sx celoflake. Preceded job with 20 bbls mud flush. Full returns throughout job. Bumped plug with 1500 psi at 4:00 p.m. Dropped bomb and opened Baker DV tool with 500 psi. Circulated out good amount of cement from above DV tool. Waited 4 hrs and cemented 2nd stage with 465 sx 65/35 Pozmix, 6% gel and tailed in with 50 sx Class "B" neat cement with 2% calcium chloride. Preceded job with 20 bbls mud flush. Full returns through job, circulated 25 bbls good cement to surface. Tool closed with 2500 psi and held good. Plug down 9:05 p.m. Set slips and cut off casing.

Hawedw. Ellulge

Harold W. Elledge Petroleum Engineer

"EXHIBIT B #1"

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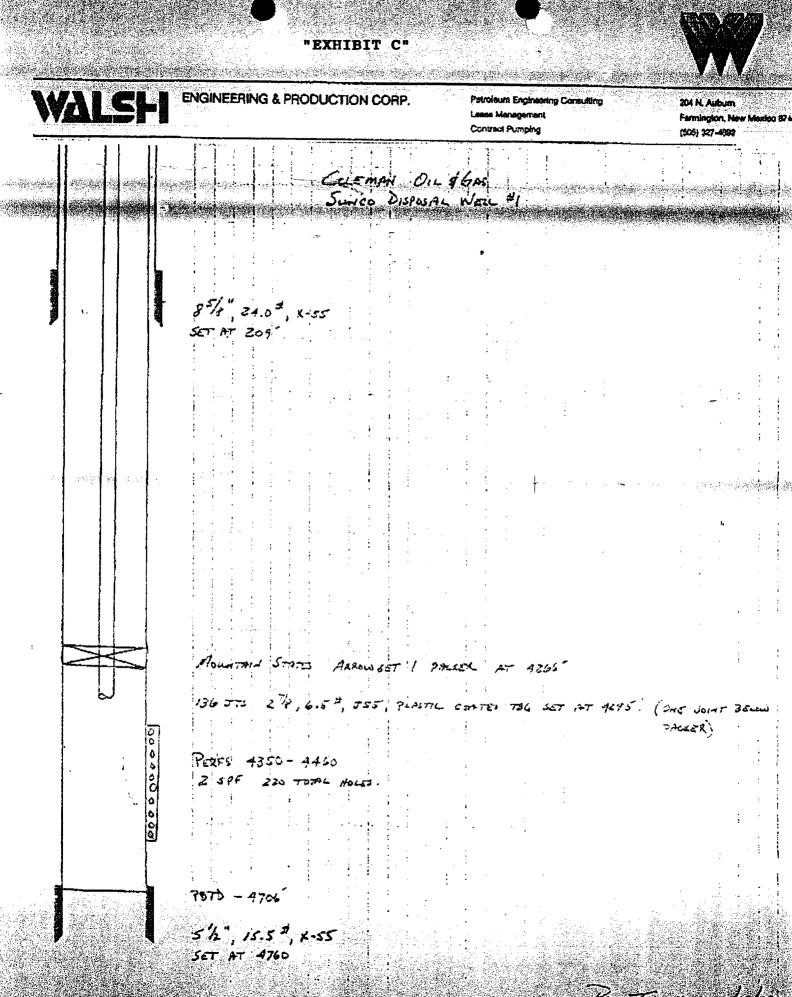
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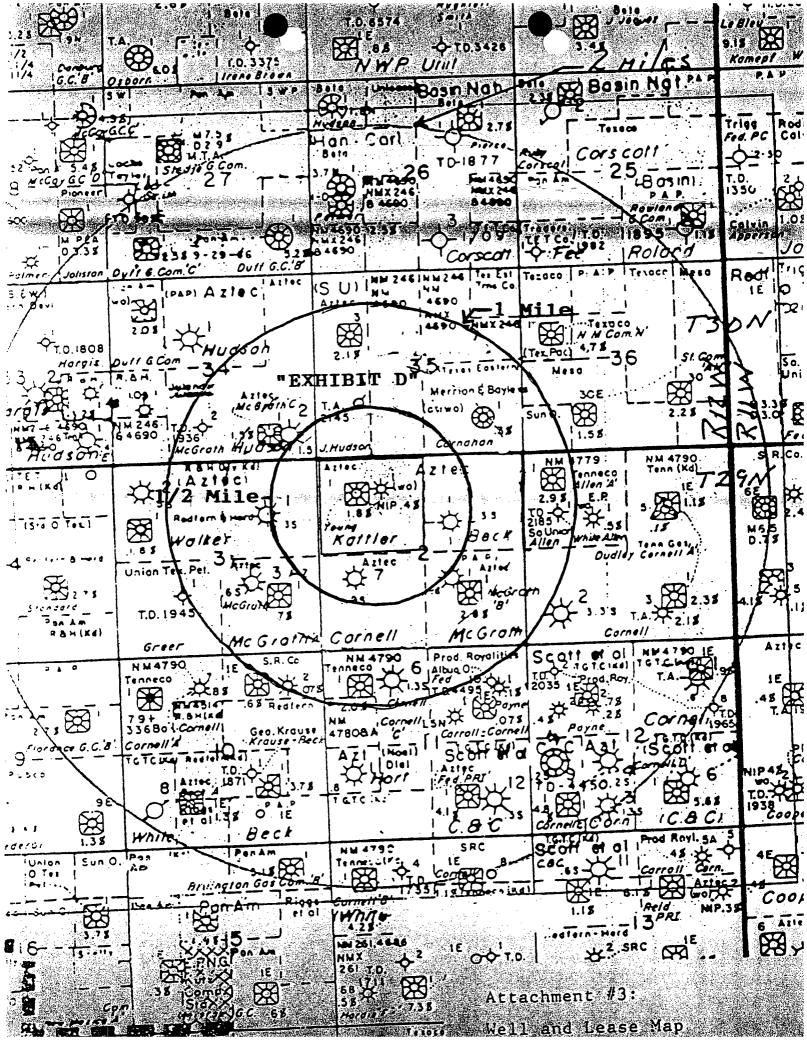
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Coleman ou Gas LEASE Sunco Disposal Well NO. 2 7/28 19

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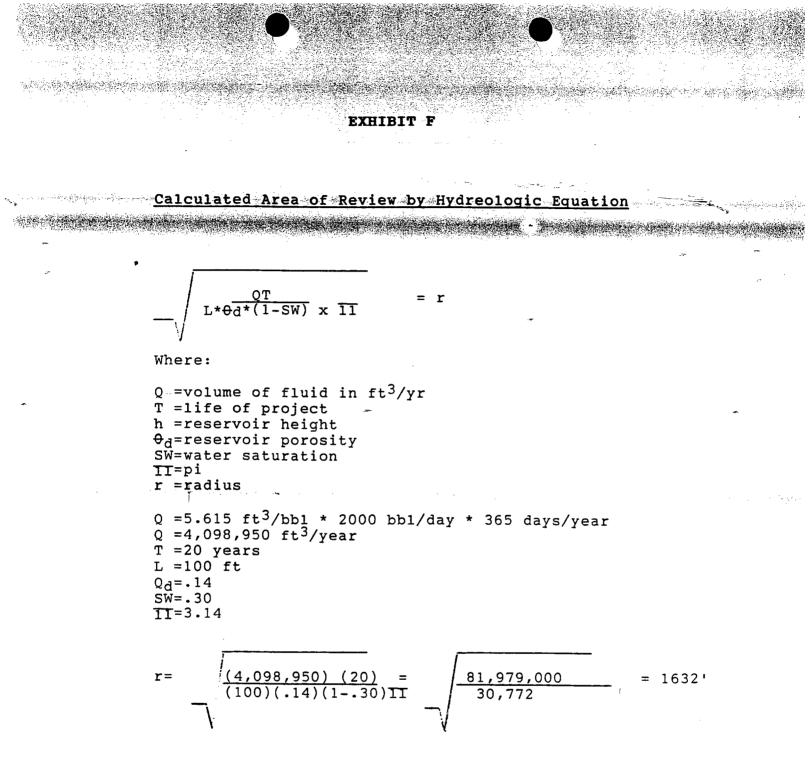


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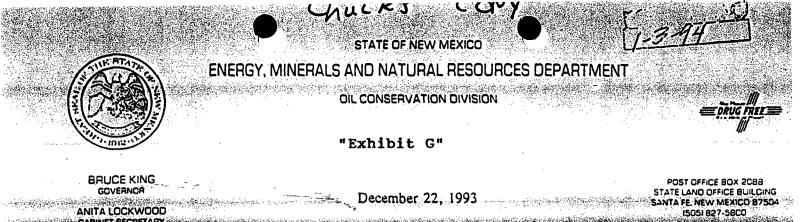


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**Calculated Area of Review is 1632'



Walsh Engineering & Production Corporation 204 North Auburn Farmington, NM 87401

Attention: Paul C. Thompson

RE: Injection Pressure Increase, Coleman Sunco Disposal Well No. 1, Section 2, Township 29 North, Range 12 West, San Juan County, New Mexico

Dear Mr Thompson:

Reference is made to your request dated December 8, 1993 to increase the surface injection pressure on the above referenced well. This request is based on a step rate tests conducted on this well on December 7, 1993. The results of the test have been reviewed by my staff and we feel an increase in injection pressure on this well is justified at this time.

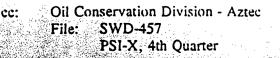
You are therefore authorized to increase the surface injection pressure on the following well:

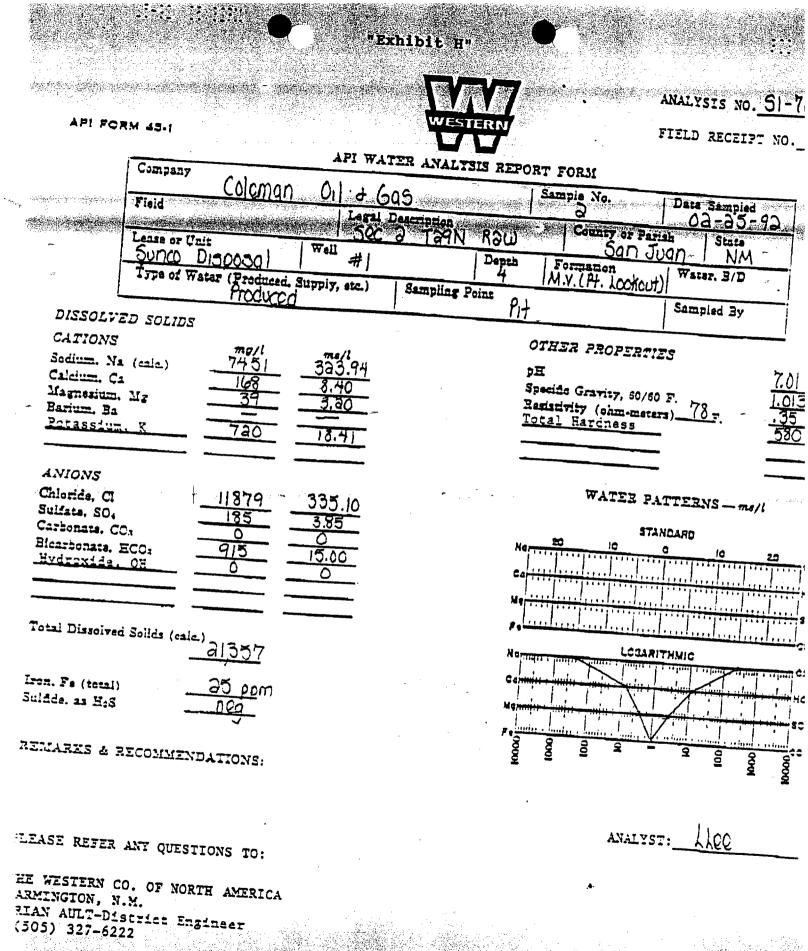
Well and Location	Maximum Injection Surface Pressure							
Coleman Sunco Disposal Well No. 1 1595' FNL - 1005' FWL Unit E, Section 2, Township 29 North, Range 12 West	2850 psig							
This well located in San Juan County, New Mexico.								

The Division Director may rescind this injection pressure increase if it becomes apparent that the injected water is not being confined to the injection zone or is endangering any fresh water aquifers.

Sincerely, William J. LeMay Director

WJL/BES/amg





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Magneslum (Mg)	NT			
Chlorides (Cl)	2900	6950	9900	
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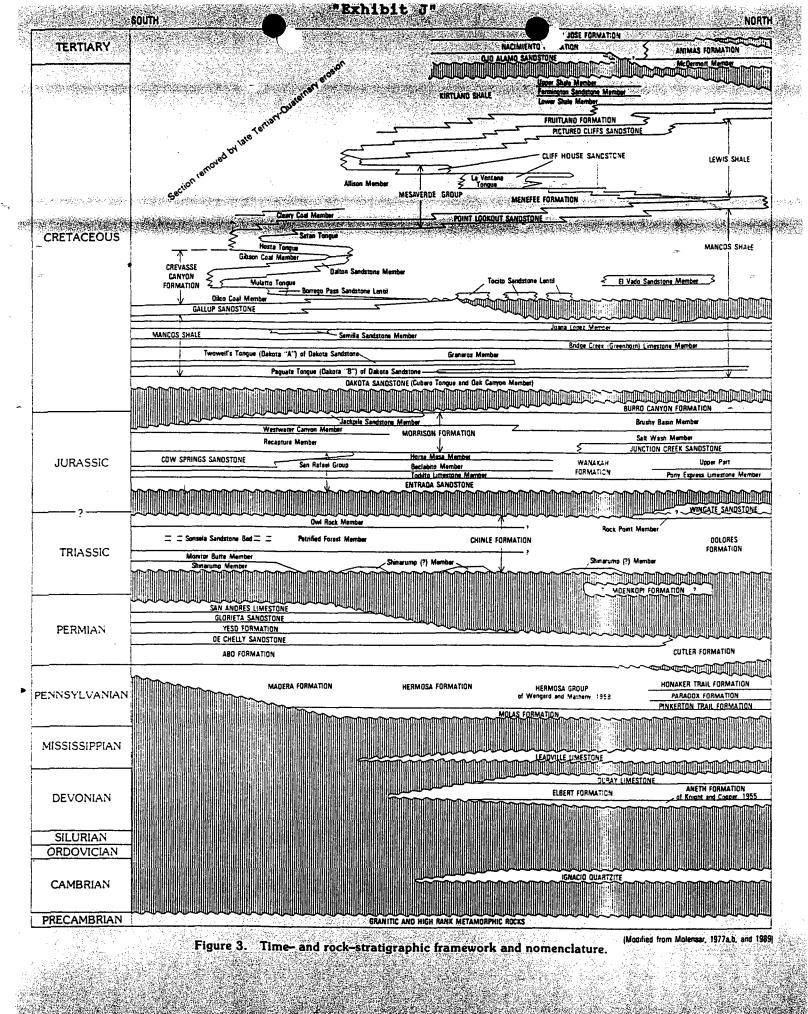
Respectfully submitted,

By_

Analyst:_ CCI

HALLIBURTON COMPANY

NOTICE



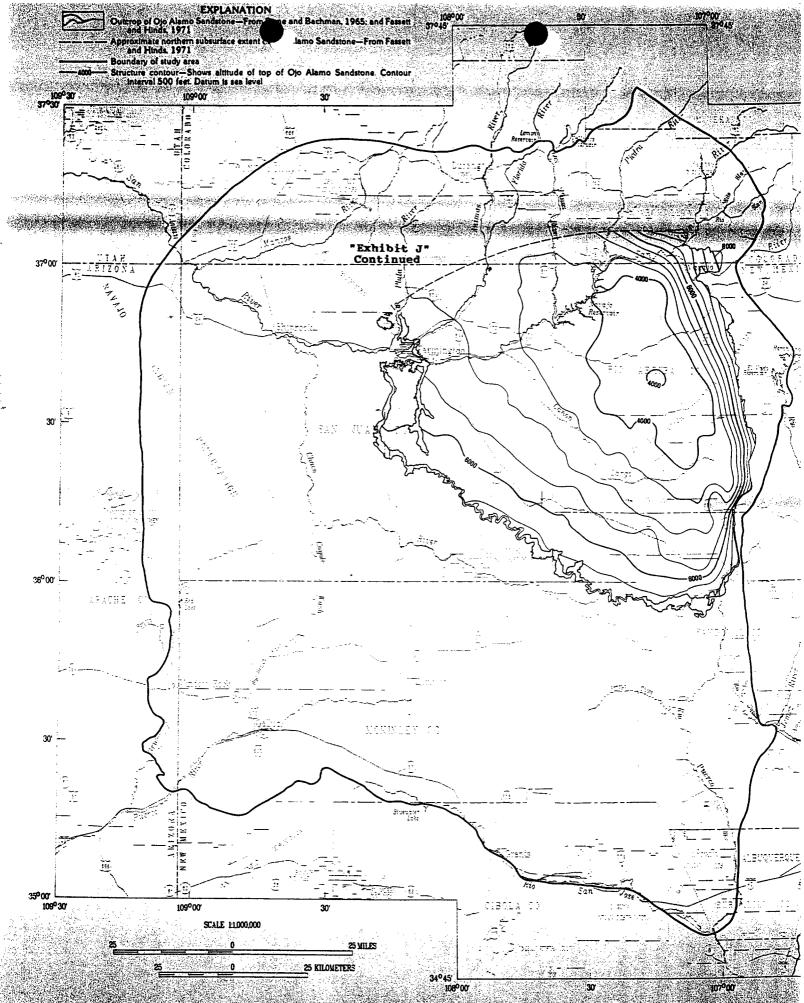
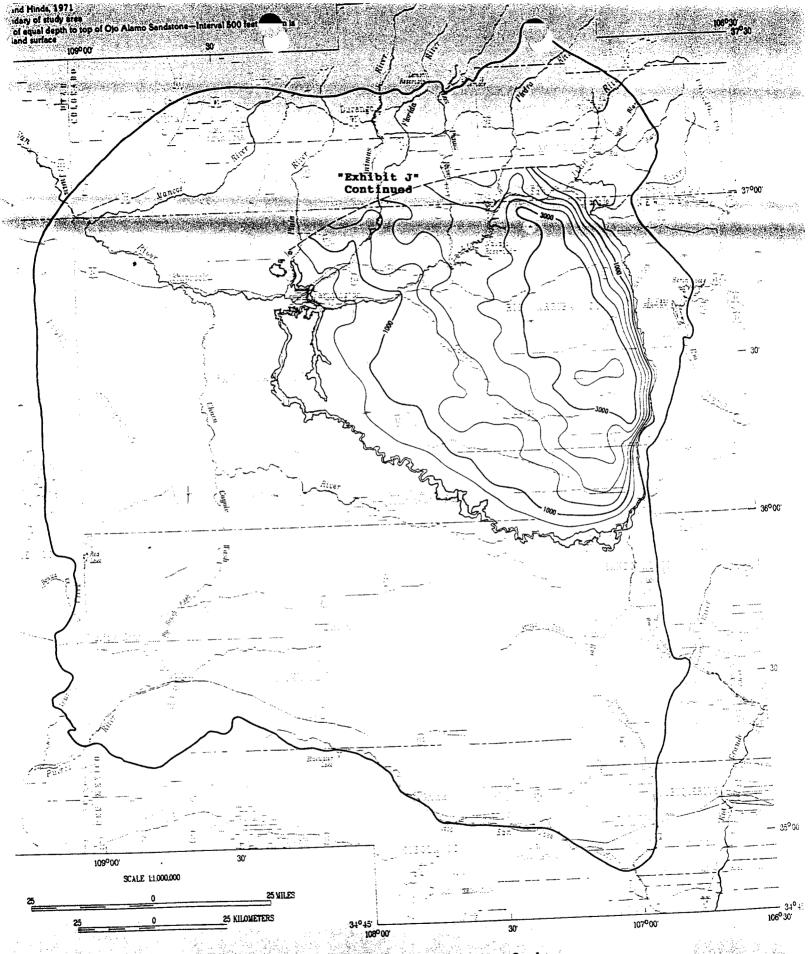


Figure 6. Approximate altitude and configuration of the top of the Ojo Alamo Sandstone.





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NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

WELL RECORD

Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not later than twenty days after completion of well. Follow instructions in Rules and Regulations of the Commission. Submit in QUINTUPLICATE. If State Land submit 6 Copies

			ACRES
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	Tenned	co Corporatio	<u>n</u>		Allen Dakota Gas Unit "A"							
Well No!	1	(Company or Oper			î	, Т	29N	, <u>r. 12</u> W	, NMPM.			
. 	Basin	Dakota			San	Juan		• • • • • • • • • • • • • • • • • • •	County.			
Well is	790	leet from	<u>N</u>	line a	od	790	feet :	from	line			
of Section.	1		ate Land the Oi	ll and Gas Lease	No. 4	NM 520.	NM 524					
Drilling Co	ommenced.	March 12.		, 19.61. Dr	illing was (Completed	May]	9,				
Name of I	Drillin g Co r	atractor. Great	Western I	rilling Co	npany.							
		Farmi										
Elevation s	above sea le	vel at Top of Tubin	g Head	05 GL		The ini	formation giv	ren is to be kept	confidential until			
			19									

OIL SANDS OR ZONES

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•				
No. 7 (rom 6689	. 6693	No. 6. from	6527	6524 6533 ILD
140. 5, 11011				

	IMPORTANT WATER SANDS	(it 1961 W.
Include data on rate of water inflow and elevation	to which water rose in hole.	i julio
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No. 3, from	to	
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817E	WEIGHT PER FOOT	NEW OR UBED	AMOUNT	EIND OF SHOE	CUT AND PULLED FROM	PERFORATION8	' PURPOSE	1
8 5/8" 0	10 24#	New	2641	Guide			Surface	
4 1/2"	9.5#	New	46281	Floet		6518-6718	Production_	
4 1/2"	11.6#	Neu	21.571		++		<u> · </u>	<u> </u>

			MUDDIN	G AND CEMENTING H	LECORD	
BIZE OF HOLE	SIZE OF CASING	WRERE BRT	NO. SACES OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
12 1/4"	8 5/8"	2641	200 52	Tvo Plug		
7 7/8"	4 1/2"	6785'	300 Sx	Tvo Plug		
1.						
)	

RECORD OF PRODUCTION AND STIMULATION

(Record the Process used, No. of Qts. or Gals. used, interval treated or shot.)

Band Frac Perfs 6714-18; 6700-06; 6689; 93, with 10,000# 20-40 sand and 20,000 gal water.

Sand Frac Perfs 6605-20 with 250 gal BDA, 43,000# 20-40 sand and 68,000 gal water. Sand Frac Perfs 6518-24 and 6527-33 with 250 gal BDA 40,000# 20-40 sand and 52,000 gal

vater.....

Result of Production Stimulation

TEST -- Flw 2882 MCFPD, AOF 3162, 10 BB1 cond per MMCF on 3/4" choke TP 230, CP 710,

SITP 2096, BHP 2566.

Barreh Cleanart Phit .

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CONSERVATION DIVISION SANTA FE, NEW MEXICO 87501

Revised 10-1-78

	DANY	Ledes		Well No.
ENNECO OIL COM		ALLEN RAN Range	County	
	1	29N 12W	San	Juan
al Footage Location of 1150 feet f	welli rom the South	11-1		•••
	Producing Formation	line and 790 Pool	feet from the	West line Dedicated Acreage:
831	Dakota	Basin Da		5.72.50 · 320 Acres
. Outline the acre	age dedicated to t	he subject well by colored p	encil or hachure	marks on the plat below.
. If more than on interest and roys	e lease is dedicat hlty).	ed to the well, outline each	and identify the o	ownership thereof (both as to working
. If more than one dated by commun	lease of different itization, unitization	ownership is dedicated to the on, force-pooling. etc?	well, have the i	nterests of all owners been consoli-
Yes I	lo If answer is	"yes;" type of consolidation	Communitiz	ed
If answer is "no	!' list the owners	and tract descriptions which	have actually bee	en consolidated. (Use reverse side of
this form if neces	ssary.)			
No allowable wil	l be assigned to the otherwise) or notil	well until all interests have	been consolidate	ed (by communitization, unitization,
sion.	otherwise) of until	a non-standard unit, climinat	ing such interests	s, has been approved by the Commis-
				CERTIFICATION
FEE '				I hereby certify that the information con-
Tennecjo	100%	JAN	31 1985	tained herein is true and complete to the
O I			N. DIV.	best of my knowledge and belief.
		Dis	T. 3	Sect M=Kimmer
				· Scott McKinney
. 1				Position
· 1		RECEIV	ED	Sr. Regulatory Analyst
· •		JAN 14 1985	-	Tenneco Oil Co
1	Sec.			Date 10 1005
l		BUREAU OF LAND MANA FARMINGTON RESOURC		January 10, 1985
SF-065557A	97/127/197/147/27/27/2			
Tenneco: - 79%				I hereby certify that the well location shown on this plat was plotted from field
Amax - 21%				nates of octual surveys made by me or
. I				under my supervision, and that the same
0' · i				is true and correct to the best of my knowledge and belief.
<u> </u>				
		-		Date Surveyed
201				October 27. 1986
7				Registered Professional Engineer
				-Beckladik
				Fred B. Kerm Jr.

9-331) DEPART 9-331) DEPART BURE	UNITED STATES MENT HE INTERIO		Budget Buresu No. 1004-0135 Expires August 31 1085 LEASE DESIGNATION AND EBALL SO. SF-065557A	
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1 OIL C GAG OTHER			E. PARM OR LEASE HAVE	in di terre L
2. FAME OF OFFEATOR Tenneco Oil Company			Allen A	
3. ADORESS OF OPERATOR	rood C0801 55		9. WELL NO.	
	clearly and in accordance with any i		10. PIELS AND POOL, OR WILDCAT	
1450' FSL, 790	 Statistical Statistics of the statistical statistics of the statistical statistics. 	en Mar sevene opposite helperior representation et presidente	11. SDC., T., B., M., OB BLE. AND SUBVEY OB ABBA	
			SEC.1, T29N, R12W	
14. FEENIT NO. 30-045-26214	15. BLEVATIONS (Show whether DF,	IT, GR, etc.)	12. COUNTY OF PARISE 18. STATE San Juan NM	
	oppropriate Box To Indicate N	ature of Notice, Report, or C		
NOTICE OF INT			BHT REPORT OF :	
TEST WATEL BECT-OFF	PELL OR ALTER CASING		REPAIRING WELL	
PRACTURE TREAT	ABANDON*	PRACTURE TREATMENT BEOOTING OR ACIDIZING	ABANDONMENT*	
REPAIR WELL	CHANGE PLANS	(Nots : Report results	of maltiple completion on Well etion Report and Log form.)	
17. DESCRIBE PROPOSED OR COMPLETED OF proposed work. If well is direc ment to this work.) *	PERATIONS (Clearly state all pertiuent tionally drilled, give subsurface locati	details, and give pertinent dates.	including estimated date of starting any i depths for all markers and somes perti-	
lst stage w/20 bbls tailed w/100 sx 118 Open tool & circ. 4/01/85 Cmt 2nd sta w/100 sx "B" 1/4# ce mud flush 200 sx 65/	jts, 5 1/2" 17# N-80 L mud flush, 120 sx 221 CF "B" w/ 1/4 #/sx cel	CF 65-35 POZ 6% gel, lo-flake. Plug on 4 500 sx 65/35 6% gel pen tool & circ. Cm	+ 1/4 #/sx cello-flake, 15 am 4/1/85. Drop bomb 1/4# cello seal tailed t 3rd stage w/20 bbl A/1/85 Circ 2 bbl	
0	.1		APR 15 1335 CIL COMPLETIV.	
15. I hereby certify that for foregoing BIGNED	13 truy and correct	Sr. Regulatory Anal	Disti. 3	
(TL's space for Federal or State o	Acr use)		ACCEPTED FOR RE	COR
API LOVEI BY CONDITIONS OF APPROVAL, IF	ANY: TITLE	· · · · · · · · · · · · · · · · · · ·	DATE	
			APR 1 2 198	
Augusta Augusta Augusta Augusta	*See Instructions	on Revene Side	FARMINGTON RESOURCE	. A R
T.::e 16. (J. S. C.) iecijari 400i, maa	NM	OCC'	BV <u>593</u>	
United Silven any false, frechtieur	br. (audulen: statements or rep	esentations as to any matter w	thin its jurisdiction.	
Testing Method (picot, back pr.)	abing Pressure (Shat-ja)	Casing Pressure (Shut-in)	Chote Size	
CERTIFICATE OF COMPLIANCE	<u>1325</u>	1325 DIL CONSEL	3/4"	
I hereby certify that the rules and rep Commission have been complied with above is into and complete to the be	and that the lafermation stress	APPROVED	JUN 1 2 198519 Signed by FRANK T. CHAVEZ	

MEXICO OIL CONSERVATION COMMISSION N

FORM C-128 REVISED 5/1/5

Well Location and Acreage Dedication Plat

erator	AS	tec Oil and	Gas (CRIPERTY		Lease	You,	4 G	Date_	ARTA	27,.1	961	
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County	San Jus		_			Line,	990		Feet Fro		West.		
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Status Fe, New Medico WELL RECORD Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not have than toward days after completion of well Follow Instructions in Rules and Regulations of the Consultation, Submit in QUINTUPLICATE Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not have than toward days after completion of well Follow Instruction in Rules and Regulations of the Consultation, Submit in QUINTUPLICATE Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not have than toward of periods Old & Gase Company Commission of Status of Deration (Commission of Deration) No. 1-D is Mill if of the Coll and Gas Lesse No. is Is a Status Lond the Oil and Gas Lesse No. is Bing Commenced S/1/61 900 Lest Ford North Is and the Oil and Gas Lesse No. is Bing Contractor. Summet to Drilling Company Out: sambe ore scored at Top of Tubing Head OxLos - 56kgT The information given is to be kept confidential non-confidential No. 6, from	Santa Fe, New Mesico WELL RECORD Mail to District Office, Oll Conservation Comminion, to which Ferm C.101 was sent tool in the contribution of the Contribution of well. Follow instructions in Rules and Regulations of the Contribution Booken is a QUINTURLICATE. Mail to District Office, Oll Conservation Comminion, to which Ferm C.101 was sent tool to the Contribution Booken is QUINTURLICATE. Town of the Contribution Booken is QUINTURLICATE. Mail to District Office, Oll Conservation Comminion, to which Ferm C.101 was sent tool to the Contribution Booken is QUINTURLICATE. Town of the Contribution of the Contribution of the Contribution Booken is QUINTURLICATE. No. Contrast of Contrast Contrast of Contrast of Contrast. Contrast of Contrast. Rest Delators North Use and Section Allow of Contrast. Contrast of Contrast. Section Allow of Distributington, New Mexico New Contrast. Contrast of Contrast. Contrast of Contrast. Section above real level at Top of Tubing Head OnLine = 58h7 Dot Entroper Contrast of Contrast. Contrast of Contrast. Non Contrast of Section above real level at Top of Tubing Head OnLine = 58h7 No. 5, from to Non Contrast of Section above real level at the level of the contrast. Contrast of Water Inflow and elevation to which water top in hole. Contrast of Section andelevel of	Mail to I later than of the Cortes	District Office, twenty days al	, Oil Conserv	Santr WE vation Commission,	ta Fc, New Mo	taico						
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REVISED 5/1/81

NEW MEXICO OIL CONSERVATION CO. ISSION

Well Location and Acreage Dedication Plat

	Section					
j <u>1650</u> Feet From Ban Juan						
	_ G. L. Elevation _ Dakota					Acre
of Producing Formation			Pcoi			
he Operator the only owner* in	n the dedicated acr	eage cutlined	on the plat b	elow? Yes	No	X
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NEW MEXICO OIL CONSERVATION COMMISSION Revised 7/1/57 Santa Fe. New Mexico

REQUEST FOR (OIL) - (GAS) ALLOWAFLE

WITHIN 1/2 MILL

New Well Recompletion

Form C-1941

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletio. The completion date shall be that date in the case of an oil well when new oil is delivered into the stock tanks. Gat must be reported on 15.025 psia at 60° Fahrenheit.

				Farmington, Sev Maxico	4-29-54
				(Place)	(Date)
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Azt		Gas Cos	PREY NOBATE A	, Well No. 1	
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	-		PRODUCING INTERVAL -		
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	l		GAS WELL TEST -		
(FOOTAGE)		— Natural Prod. Test: 179	MCF/Day; Hours flowed	Choke Size 3/4"
•		enting Reco	rd Method of Testing (pitot,)	pack pressure, etc.):	
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		<u> </u>	-		
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V MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

SEE INSTRUCTIONS FOR COMPLETING THIS FORM ON THE REVERSE SIDE

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Lation and Acreage Dedication Plat Dote ... AZTEC OIL & CAS COMPANY .o. C-1 Unit Letter __P___Section __34 ____ Township __30N ____ Range NMPM 12W .red _____ Feet From _____ Bouth ____ Line, ____ 1190 ____ Feet From East Line unty _____ Ban Juan _____ G. L. Elevation _____ 5774 Dedicated Acreage ... 320 . Acres Dakota Pool Basin Dakota ame of Producing Formation ____ If the answer to question One is "No," have the interests of all the owners been consolidated by communifization agreement or otherwise? Yes X No_____ If answer is "Yes," Type of Consolidation <u>communitization</u> If the answer to question Two is "No," list all the owners and their respective interests below: DWNER , المراجع المحادية CTION B. wither his and This is to certify that the informa-tion in Section A above is frue and complete to the best of my knowl-CALTE . ÷. edge and belief. AZTEC OIL & GAS COMPANY Joe C. Balmon, Dist, Bupt. Draver # 570, Tarmington, N.M. CF-NEW Machinessi Holds CF-NEW Machinessi Holds This is to certify front the well loce-4-2-2 JAN 23 1963 OIL LON. COM 1. 3 20 .3 1 tion shown on the clet in Section B Ś was platted from field notes of actual surveys made by me or under my supervision and that the same is true and sorrect to the best of my knowledge and belief. A CHARLENS Date Surveyed Jan 18, 1962 . X.S. . . FARMINGTON, NEW MEXICO Il & Gehak REBISTERED ENDINEER O Certificate No. 3.602 ZOOD lona 1500 100

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657 5 '-6558' 6424'-6420' 2 jspf, .50 33.* PATE FIRST PRODUCTI <u>1/30/85</u> PATE OF TEST <u>1/31/85</u>	, 4 jspf, , 6508'-647 ", total of ", total of " NON" PRODUCT	50"; 6410'-6 6', 6520'-65 180 holes. CTION METHOD (Flow Flow CHIOKE BIZE .75"	D396', 16', PROF During, gas lift, pr ing FRINTN, POR TEST PERIOD	32. DEPTH INTI (6558'-6 (6396'-6) (6396'-6) (6396'-6) (6396'-6) (6396'-6) (6396'-6) (6558'-6) (7558'-6) (755	2-3/ ACID. SHOT EBVAL (MD) 576') 5520') and type of pur- (AR- M) 168	DEPTH SET 8"	(MD) ENT SQL KIND OF 30# 70 C -40 S3 SCL STAT sAut-in) BBL.	gel & 25,000# quality foam & and. Us (Producing or Shut-in GAB-OIL BATIO
657 5 '-6558' 6424'-6420' 2 jspf, .50 33 DATE FIRET PRODUCTI <u>1/30/85</u> DATE OF TEST <u>1/31/85</u> FLOW, TUBING FREMA	, 4 jspf, , 6508'-647 ", total of ", total of PRODUC HOU'RA TESTED 3 CABING PRESSUR	50"; 6410'-6 6', 6520'-65 180 holes. CTION METHOD (Flo Flow CHOKE BIZE .75" 24-DOTE BATE	5396', 16', PROF During, gas lift, pu ing [FBUD'N, FOR	32. 92771 INT (6558'-6 (6396'-6 (6396'-6 01'CTION simping-size of	2-3/ ACID. SHOT ERVAL (MD) 5576') 5520') 1520') ad type of put (AS- M (AS- M) 168	DEPTH SET 8"65751 . FRACTURE. CEM ANOUNT AND 20,000 gai. 20-40 sand 70,000 gai. 90,000# 20- ************************************	(MD) ENT SQL KIND OF 30# 70 C -40 S3 SCL STAT sAut-in) BBL.	JEEZE, ETC. MATERIAL CARD gel & 25,000# quality foam & and. Un (Producing or Shut-in
657 6 '-6558' 6424'-6420' 2 jspf, .50 	, 4 jspf, , 6508'-647 0", total of 100X PRODUC HOL'RA TESTED 3 7481NG PRESALAR 397 psig 18 (Sold, used for)	50"; 6410'-6 6', 6520'-65 180 holes. CTION METHOD (Flow Flow CHOKE BIZE .75" 24-00'B BATE 24-00'B BATE	D396', 16', PROF During, gas lift, pr ing FRINTN, POR TEST PERIOD	32. DEPTH INTI (6558'-6 (6396'-6 01'CTION imping-eize d 011ABL.	2-3/ ACID. SHOT ERVAL (MD) 5576') 5520') 1520') ad type of put (AS- M (AS- M) 168	DEPTH BET 8" 65751 . FRACTURE, CEM:	(MD) ENT SQU EIND OF 30# 70 c -40 sa cll stat skut-in) BBL. OIL CNESSED	JEEZE, ETC. wittenal USED gel & 25,000# quality foam & and. US (Producing or Shut-in GRAVITT-API (CORR.) BT
657 5 '-6558' 6424'-6420' 2 jspf, .50 33.* PATE FIRET PRODUCTI <u>1/30/85</u> PATE OF TEST <u>1/31/85</u> FLOW, TURNO FRESS. 104 DSIG	, 4 jspf, , 6508'-647 0", total of 100X PRODUC HOL'RA TESTED 3 7481NG PRESALAR 397 psig 18 (Sold, used for)	50"; 6410'-6 6', 6520'-65 180 holes. CTION METHOD (Flow Flow CHOKE BIZE .75" 24-00'B BATE 24-00'B BATE	D396', 16', PROF During, gas lift, pr ing FRINTN, POR TEST PERIOD	32. DEPTH INTI (6558'-6 (6396'-6 01'CTION imping-eize d 011ABL.	2-3/ ACID. SHOT ERVAL (MD) 5576') 5520') 1520') ad type of put (AS- M (AS- M) 168	DEPTH SET 8"	(MD) ENT SQU KIND OF 30# 70 C -40 S3 5(L STAT sAut-in) BBL. 01L NESSED	JEEZE, ETC. xiterial USED gel & 25,000# guality foam & and. US (Producing or Shut-in GRAVITY-API (CORR.) ST arnett
657 6 '-6558' 6424'-6420' 2 jspf, .50 	, 4 jspf, , 6508'-6470 ", total of ",	50"; 6410'-6 6', 6520'-65 180 holes. CTION METHOD (Flow Flow CHOKE BIEE 	5396', 16', PROF buing, ges Kift, pr ing [TEND'N, FOR TEST PERIOD 	32. DEFTH INTI (6558'-6) (6558'-6) (6396'-6) 011RBL. 011RBL. (AB->) 134	2-3/ ACID. SHOT ERVAL (MD) 576') 5520') 	DEPTH SET 8"	(MD) ENT SQU KIND OF 30# 70 C -40 S3 -40 S3	JEEZE, ETC. xiterial USED gel & 25,000# guality foam & and. US (Producing or Shut-in GRAVITT-API (COBR.) ST Arnett R RECORD

Form C-104 Renned 10-01-73 Format 05-01-63 Prose 2

. COMPLETION DATA						····	•	•••
Designate Type of Completio	а — (X)	¦Сая ₩•Ц	N W-11	Worzerer	Dropan 1	1	Same Reew.	•
11/20/84	Date Compil Renty to Pr 1/7/85		Teres Copia		ite in s inen	P.B.T.D.	604'	
Develope (DF. RKB. RT. GR. etc.;	Name of Producing Form	ation	Top OLL/Ca	•		Tubing Dep	575'	. .
<u>5772' GR</u>	Dakota		03	96'				
6578-6558', 6410'-6396'	, 6424'-6420', 65	08'-6476',	6520'-6	516'		Depth Canie	609'	
		LASING, AND)		•	
HOLE SIZE	CASING & TUBIN	G SIZE	1	DEPTHSE	т	L 51	CKS CEME	NT
12-1/4"	8-5/8", 24#	· · · · · · · · · · · · · · · · · · ·	316	1		295 c.f	•	
7-7/8"	4-1/2", 10.5#		6609		· · · · · · · · · · · · · · · · · · ·	3031 c.f		
	2-3/8"		6575	<u>,</u> т	•	ļ		
. TEST DATA AND REQUEST		est must be af ble for this de	pell or be for j	Juli 24 houre)	<u>•.•</u>		qual to or ess	
Cale First New Oll Run Ta Tanks	Date of Test		Producing M	isthat (Flow,	pump, gas lift	, etc.j		÷.
mgth of Test	Tubing Pressure		Costag Pres	-	•••	Choke Size		-
مى ئىلى بىلىغى ئىلىغى ئىلىغى ب ىلىغى بىلىغان ت	a na la servizione de la servizione de la servizione de la servizione de la servizione de la servizione de la s	and the second	and the show	وأنجاب وإلاقت	and the			e. Restar
Verial Pred, During Test	QU-824.		Wgter-Bble.	•	· · · · · · · · · · · · · · · · · · ·	Gas-MCF	•	
	······································		•	•	•	•	- 3	

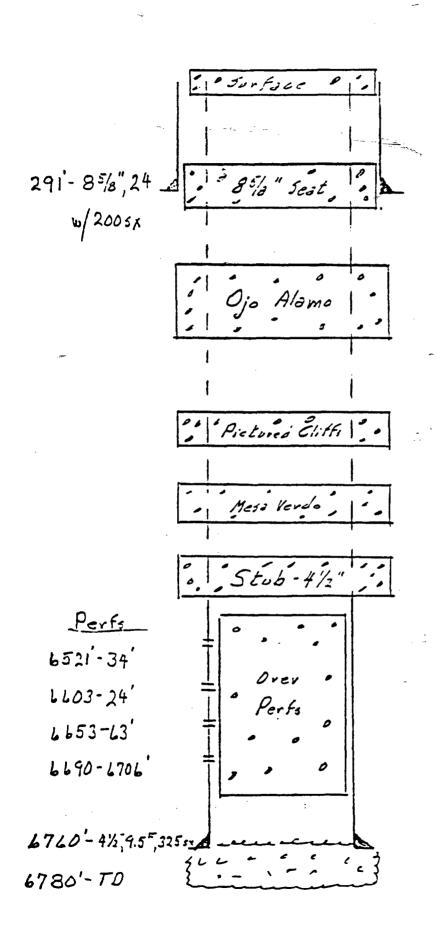
AS WELL			
Actual Prod. Tost-MCF/D	Longth of Test	Bhis. Condenses AACF	Grevity of Condensatio
1344 123775	3 hrs.	168	
Tosting Listhed (publy back pr.)	Tubing Pressure (Shat-10)	Cosing Pressure (Shut-12)	Choke Size
Back pressure	1870 psig	2010 psig	.75 " 📼

NEW M	CPARIMENT		P. 0. 107 208	KICO 3			Form C-107 kevised 10-1
RION OIL "	GAS CORPORA	VTION	Lecae CARNAHAN		fille Jecilo	•. 	Well No
etter Sect	10n 1 35	ownahlp 30N	Range 12W		County San	Juan	
ual Footage Location			- <u></u>	<u></u> I	Ua.1	04811	
1090 fee und Lovel Elev:	roducing Forma	1th line on tion	d 1070 Pool	feet	from the	East	line Dedicated Acreager
5905	Dakota		Basin Dak	ota			320 Actes
interest and ro 3. If more than or dated by comm X Yes If answer is " this form if new No allowable w	yalty). ne lease of dif unitization, un No If ans no;' list the ov cessary.) vill be assigned	ferent ownership i itization, force-po wer is "yes," type wners and tract de to the well until	is dedicated to t oling. etc? e of consolidations escriptions which all interests have	he well, n n have ad	have the Communi ctually be consolidat	interests tized en conso ed (by c	p there of (both as to working of all owners been consoli- OIL CCN. D.J. DIST. 3 lidated. (Use reverse side of communitization, unitization, een approved by the Commis-
sion.				Fee		tained best o Mame	CERTIFICATION by certify that the information con- i herein is true and complete to the of my knowledge and belief.
	 Sec 		SF 068990			Position Opera Compony	tions Manager y on Oil & Gas Corporatio
		35				shown nates under Is tru	aby certify that the well location o on this plat was plotted from field of actual surveys made by me or my supervision, and that the some we and correct to the best of my edge and belief.
·			FEE 0601	107	01	Registe and Free	d. B. Kerr Jr.

FORM 24-11

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									/		Farm (C-105
CF NEW	MEXICO											d 10-1-78
	S DEPARTMENT		ONSE	- PVA	TION D	IVE	sior					
JISTRIBUTION				O. 807				/	ł	Sa. ina Sta		/pe of Ledae
ATA FE		SAN			MEXICO	875	501/	/			· · · · ·	Gas Lease No.
	1 1			•							- 0)	
J.S.G.S.	ν	VELL COMPLE	TION OF	R RECO	MPLETIC	N RE	PORT	T AND I	_OG	\overline{m}	\overline{m}	mmm
SAND OFFICE									Ì	////	////	
TYPE OF NELL					<u></u>		·····			7-, Unit	Adlee 1	ioni Name
	016	GA3	D:]		<u>ii</u>) } #		2 1 N	7 -		•	· · · · · · · · · · · ·
TYPE OF COMPLE	TION				11	1	÷			82 0	n or <u>'</u> so	ise Name
-	* accre	EN PLUG		sva. 🔲	07468	L:				gar	nahan	Com
Ame of Cperator		*				1	יטעונ	7198	4		No.	.÷-
Merrion OIl	& Gas Corp	oration			(<u>) </u>	ca	N. D		2		
Garess of Operator	17 Farmin	ngton, New Me	vice	27/00				14. D	IV.		nd cana i in Da	Pool, or Wildom kota
P. U. BOX IL	<u></u>	Igcon, New Me					DIST	1.3				
"scanou of welt								-	k	////		
₽	LOCATED	1090	•	Sout			1070		k	////		
" LETTER	LOCATED	FELT FR	OM 7HE		LINE AND	777	777			12 00	77777, 77777,	
East	35	30N	12W	N ba Phá		111,	XV		$\langle \rangle \rangle$	San	Juan	
Care Spugged		Reached 17. Date			rod.) 18. 5		tons (D	F, RKB,	RT, G	R. esc.)	19. 21	ev. Canninghead
6/15/84	6/24/84	4 7/23/	′84				5918	' KB			5905	5' Œ
. Tatus Depth	21. Plu	ig Back T.D.		I Muitipie	Compl., Ho	- 1	23. Inte	Iled By	Rotary	Tools	1	Cable Tools
6780' KB		735' KB						iled By	0 -	TD.		· ·
Producing Interval(s			, Name								25.	Was Directional S Made
6714 - 6529	· KB, Dakor	La			• .							No
Type Electric and C	These Local Due				·····							Well Cared
		sated Density	Z Logs								27. Hus No	
•		CAS	ING RECO	RD (Ree	et all strings	art in	n weil)			<u>-</u>		
CASING SIZE	WEIGHT LB.				ESIZE			MENTING	RECO	080		AMOUNT PUL
8-5/8"	124 #/ft.	J-55 230	KB	12-1	./4	_170) sx	(350 0	cu. f	t.) (lass	З
4-1/2"	110.5 =/=	t, J-155 6777	'KB	7-7	7/8"	400) sx	(488 (cu. f	t.) (lass	#) 305= 4 94
						600		(1236				and the second se
		!			<u> </u>	100) sx	(122)				A2
		INER RECORD					30.				RECOR	
SIZE	TOP	BOTTOM	SACKS C	EMENT	SCREEN		512		OE	TH SE		PACKER SE
<u></u>) 						<u>2-3/8"</u>	·	6530	<u></u>	
Perioration Record (Internal size an	d support		1	32.		SHOT	- EPACT	1106	-ENEN		EZE, ETC.
		7, 6620, 662.	5, 6629).	DEPTH	_		1				MATERIAL USE:
		0, 6714, 12	-		6529 -		_	3 75		Lty Fe		
diameter.					[434	Bbls	s H2O		
										98 SC		
]			155,	000 :	# 207	40 Sa	na
					JCTION							0
te First Production - 7/23/84	{	uction Method (Flow DWing	ving, gas i	iji, pumpi	ng — Jize an	a (ype	pump)			Shut		Prod. or Shue-in)
.e of Test	Hours Tested	Choke Size	Prod'n.	For	ОЦ — ВЫ.		G23 1	MCF	Wat=	r - 364	. 16	as - Oil Rauo
8/3/84	3	20/64	Test Pe		2 Bbls		-	MCF/D	1	ace		37,688
Tubing Press.	Casing Pressu	Calcuiated 24			Gas - h	4CF		Water -	BbL		011 Gr	TVILY - API (Corr
850 PSI	950 PSI	Hour Aate	16		603	MCF	/D	tra	ce			48°
Disposition of Gas (Sold, used for fu	el, vented, etc.)							1	Witnes	-	
Vented									<u> </u>	im Me	rilat	.t.
List of Attachments												
• 					·						<u> </u>	



Carnata: Unit #1 Basin Dakota Pool Unit P, Sect 35, 30N, 12W Son Juan Co., New Mexic G.L. 5911 P ≉ A 1. Plug over perfs \$ 100' to 6400' 2. Cut and pull free 41/2" pipe 3. Plugs across a.41/1" stub b. Mesa Verde c. Picture Cliffy d. Ojo Alamo e. 85/8" cating seat F. Surface 4. Monument

JCG/4-2-71

NEW MEXICO OIL CONSERVATION COMESSION WELL ECATION AND ACERAGE DEDICATION PLAT

	All dis	tances	must	be	from	the	outer	boundaries	of	the	Section
--	---------	--------	------	----	------	-----	-------	------------	----	-----	---------

erator				Lease				i Well Nc	
ztec Oil &	Gas Compa	ny		3. 1	maint			2	
Unit Letter	Section	Township		Range	,	County			·
E	35	30 Noi	rth .	12 W	lest	S	an Juan		
Actual Foctage Loco	ation of Well:								
1750	feet from the	North	'ine and	990	feet	from the	West	line	
Ground Level Eles	Producing	Fermation		Pool Besin	Dakota	· <u>·</u> ··································		Dedicatea Avereage:	
5857	Delect	a - Mosave		Flora	Vista I	-	de (Ext.) 320	Acres

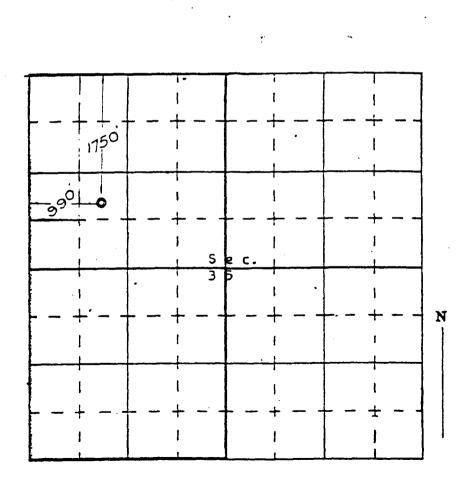
1. Outline the acerage dedicated to the subject well by colored pencil or hachure marks on the plat below.

2. If more than one lease is degicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty),

3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

If answer is "no," list the owners and tract descriptions which have actually consolidated. (Use reverse side of this form if necessary.)

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forcedcooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

ORIGINAL SIGNED BY JOE C. SALMON

Name

Position Joe C. Salmon

Componistrict Superintendent

Date Astac Oil and Gas

- Hay 27, 1966

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

March 31, 1966 Registered Professional Engineer and/or Land Surveyor

Certificate No. 3602

				DU TT	vi - 11	48 -	470	T SCH	n Wayne
form <u>230</u> Rev. 5-63)		UNITE	STA	TES	SUBMIT	IN DUPLIC	A1.5	Form	approved.
		RTMENT					other in-		et Bureau No. 42-R355.5.
	DLFAI	GEOLOGIC					se side)	·	ATION AND SERIAL NO.
						· · · · · · · · ·		6. IF INDIAN, AL	LOTTER OR TRIBE NAME
		N OR RECC	MPLET	ION F	REPORT A	ND LOO	3*		
a. TYPE OF WEL	L:0. W	VELL WELL	X D	RT	ther	CEIV	ED	7. UNIT ACREEME	INT NAME
5. TYPE OF COM		EEP-	DIFF		÷		CC		
WELL	OVEB L	IN DACK	LES		other <u>AU</u>	<u>6 2 - 19</u>	66	S. FARM OR LEAS	
NAME OF OPERAT				-		2		9. WELS NO.	
ADDRESS OF OPEN	l and Ges	<u> </u>				DLCGICAL S	URVEY		
Drawer 5		rmington,	New Mex	ico			· }	10- FIELD AND PO	OL, OR WILDCAT
LOCATION OF WEI	LL (Report loca	ition clearly and in	accordance	with any	y State requirem	iente)*		Basin Dako	
At surface 17	50 FML &	990 FNL Se	° 35, T	•30z,	R.121			11: SEC., T., R., M	OH BLOCK AND SURVEY
At top prod. inte	erval reported	below			۲.				
At total depth					•				ີຼີ = - ຊ ໂດດຫຼືອີໄ ດ ຍ
		*	14. PE	BMIT NO.	DA	TE ISSUED		12. COUNTY OB	30N. R.12W
:				-		•		PARISE	New Mexico
DATE SPUDDED	16. DATE T.D.		TE COMPL.	(Ready to	10. 1	LEVATIONS (D	F, REB, 8		. ELEV. CASINGHEAD
/22/66	8/4/66		115/66			5857 GL			5858
TOTAL DEPTH. MD	a TVD 21. P	LUG. BACK T.D., MD	a TVD 22.	HOW M	TIPLE COMPL.,	23. INTE	LED BY	BOTARY TOOLS	CABLE TOOLS
6750 PRODUCING INTER	VAL(S), OF TH	6732	DP. BOTTOM.	NAME (M	ID AND TYD)*	<u> </u>	<u>→ </u>	<u> </u>	25. WAS DIRECTIONAL
-						-			SURVET MADE
6460	• 6680					7 1			10
TYPE ELECTRIC A		8 RUN				-		= - 27.	WAS WELL COBED
Es e	Ind and	Density lo	3			• •		<u></u>	0
CASING SIZE	WEIGHT, LI	•	SING RECO		ort all strings se		FNTING P	ECORD-	
8.5/8*	24#	30							AMOUNT PULLED
<u> </u>	10.5				•7/8	20			-
· .									
								<u> </u>	
		LINER RECOR	D		-			UBING RECORD	
812E	TOP (MD)		D SACES CE	MENT*	-	- 30. 	T	UBING RECORD	PACKER SET (MD)
\$12E		LINER RECOR		IMENT*	SCREEN (MD)	- 30. SIZE	T	UBING RECORD	
	TOP (MD)	LINER RECOR			SCREEN (MD)	- 30. SIZE		UBING RECORD EPTH BET (MD) 6597	PACKER SET (MD)
	TOP (MD)	LINER RECOR		MENT*	SCREEN (MD)	30. size	T D FRACTU	UBING RECORD	UEEZE. ETC.
PERFORATION BEC	TOP (MD)	LINER RECOR	SACES CE		SCREEN (MD)	30. size	T D FRACTU	UBING RECORD EPTH 821:(MD) 6597 	UEEZE. ETC.
PERFORATION BEC	TOP (MD)	LINER RECOR	SACES CE		SCREEN (MD)	30. size	T D FRACTU	UBING RECORD EPTH 821 (MD) 6597 TRE. CEMENT SQ UNT AND KIND OF	UEEZE. ETC.
PERFORATION BEC	TOP (MD)	LINER RECOR	SACES CE		SCREEN (MD)	30. size	T D FRACTU	UBING RECORD EPTH 821:(MD) 6597 	UEEZE. ETC.
PERFORATION REC	TOP (MD)	LINER RECOR	SACES CE	58 80	SCREEN (MD) 32. DEPTH INTER 6460-666	30. size	T D FRACTU	UBING RECORD EPTH 821:(MD) 6597 	UEEZE. ETC.
PERFORATION REC	TOP (MD) TOED (Interval, 0=62, 656	LINER RECOR BOTTOM (MD) size and number) 57.72, 6580 4	85, 66	58-80 , PROD	SCREEN (MD) 32. DEPTH INTER 6460-666	30. SIZE 1.5 ACID. SHOT. VAL (MD) B-CO	т 	UBING RECORD EPTH SET (MD) 6597 JRE, CEMENT SQ URT AND KIND 03 5 bbl H20 000# 20/40 000# 10/20 balls	PACKER SET (MD)
PERFORATION REC	TOP (MD) TOED (Interval, 0=62, 656	LINER RECOR. BOTTOM (MD) size and number) 57.72, 6580 4	85, 660	PROD ze lift, pu	SCREEN (MD) 32. DEPTH INTER 6460-666 DUCTION mping—size and	30. SIZE 1.5 ACID. SHOT. VAL (MD) B-CO	т 	UBING RECORD EPTH SET :(MD) 6597 URE, CEMENT SQ UNT AND KIND OF b bbl B20 000# 20/40 000# 10/20	UEEZE. ETC.
PERFORATION REC 460-80, 654	TOP (MD) TOED (Interval, 0=62, 656	LINER RECOR. BOTTOM (MD) size and number) 57-72, 6580 4	85, 660 SPF (Flowing, gt	PROD 28 - 80 28 - 1675, pu Ci Ci	SCREEN (MD) 32. DEPTH INTER 6460-666 DUCTION mping—size and	30. SIZE 1.5 ACID. SHOT. VAL (MD) B-CO	T p FRACTU AMO 193 40, 20, 125 p)	UBING RECORD EPTH 821:(MD) 6597 URE, CEMENT SQ UNT AND EIND OF 5 bbl B20 000# 20/40 000# 10/20 balls 	UEEZE. ETC.
PERFORATION REC 60080, 654	TOP (MD) TOED (Interval, 0=62, 656	LINER RECOR. BOTTOM (MD) size and number) 57-72, 6580 4	85, 660 SPF (Flowing, gt	PROD 18 lift, pu	SCREEN (MD) 32. DEPTH INTER 6460-666 DUCTION Imping—size and		T p FRACTU AMO 193 40, 20, 125 p)	UBING RECORD EPTH 821 (MD) 6597 TRE, CEMENT SQ UNT AND KIND OF 5 DD1 B20 000# 20/40 000# 10/20 D8118 WELL STAT #Ast 19)	UEEZE. ETC. MATEBIAL USED
PERFORATION REC	TOP (MD) TOP (M	LINER RECOR. BOTTOM (MD) size and number) 57-72, 6580 4 5000000000000000000000000000000000	SACES CE 85, 66 SPF (Flowing, go FBOD'S PBOD'S ALEST OIL-1	PROD Is lift, pu G FOR C	SCREEN (MD) 32. DEPTH INTER 6160=666 OUCTION SERDING—size and OIL—BBL. CAS—MC	ACID. SHOT. VAL (MD) BECO	T p FRACTU AMO 193 40, 20, 125 p)	UBING RECORD EPTH BET (MD) 6597 JRE, CEMENT SQ URT AND KIND OF bbl B20 000# 20/40 000# 10/20 balls WELL STAT sAut 41 S	UEEZE. ETC. MATEBIAL USED
PERFORATION REC 60-80, 654 F FIRST PRODUCTI F OF TEST B/20/66 W. TUELNG PRESS. 170	TOP (MD) TOP (M	LINER RECOR. BOTTOM (MD) size and number) of 72, 6580 4 bouction METHOD CHORE SIZE CHORE SIZE CALCULATER 24-HOUR RECOLUTER 24-HOUR RECOLUTER	SACES CE	PROD Is lift, pu G FOR C	SCREEN (MD) 32. DEPTH INTER 6460m666 DUCTION mping—size and OIL—BBL.	ACID. SHOT. VAL (MD) BECO	T p FRACTU AMO 193 140, 20, 125 125 125	UBING RECORD EPTH 821 (MD) 6597 JRE, CEMENT SQ UNT AND KIND 03 D DD1 H20 0004 20/40 0004 10/20 DB118 WELL STAT #AUE BBL WAITE - BBL 0014 0004 00000 0004 00000000	PACKER SET (MD) UEEZE ETC. MATEBIAL USED UES (Producing or Shuteing GAB-OIL EATIO
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NEW	MEXICO OIL CONSERVATION COMMISSION
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District Office State Lease - 6 copies	2		tate of New Mexi and Natural Resc					Form C+1 Revised 1
For Lease - 5 copies DISTRICT I P.O. Box 1980, Hobbs, 1	NM 88240	DIL CONS	ERVATION P.O. Box 2088		N WEL	L API NO.		
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Submit to Appropriate Distinct Office State Lease - 6 copies For Lease - 5 copies		State of New Mex Minerals and Natural Res	sources Department)	 Form C-101 Revised 1-1-89
DISTRICT I P.O. Box 1980, Hobbs, NM	88240	P.O. Box 208 P.O. Box 208 Anta Fe, New Mexico 8	8	API NO. (assigned by OCI	
DISTRICT II P.O. Drawer DD, Artesia, N			2000	5. Indicate Type of Lease ST	
DISTRICT III 1000 Rio Brazos Rd., Aztec	, NM 87410			6. State Oil & Gas Lease	No.
APPLICAT	ION FOR PERMIT T	O DRILL, DEEPEN, O	R PLUG BACK		
1a. Type of Work:	•			7. Lease Name or Unit Ap	greement Name
DRILL b. Type of Well: OIL OAS WELL WELL	X RE-ENTER らい] other DISPOS	D SINGLE		SUNCO DISPOSA	AL
2. Name of Operator COLEMAN OIL (GAS COMPANY 4	138		8. Well No. #1	·····
3. Address of Operator 700 SOUTH TUC		TON, NM 874.01		9. Pool name or Wildcat FLORA VISTA	76680 TESA VERDE
4. Well Location Unit Letter]	E: <u>1595</u> Feet Fr	on The <u>NORTH</u>	Line and100	5 Feet From The	WEST Line
Section	2 Towns	hip 29N Ran	ge 12W	IMPM SAN JUAN	County
		10. Proposed Depth			12. Rotary or C.T.
		4760		ESA VERDE	ROTARY
13. Elevations (Show whethe 5859 GR.	r DF, RT, GR, etc.)	4. Kind & Status Plug. Bond	15. Drilling Comractor BIG "A" WEL	16. Approx.	Date Work will start -28-92
17.	PR	OPOSED CASING AN			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12-1/4	8-5/8	24.0	200	200	SURFACE
7-7/8	5-1/2	15.50	4760	900	SURFACE

We propose to drill, log, and set casing through the point lookout member of the Mesa Verde and upon examination of the logs, a portion of the point lookout will be selectively perforated and stimulated as needed.

APPROVAL EXPIRES	9-5-92
UNLESS DRILLING IS	COMMENCED.
SPUD NOTICE MUST	BE SUBMITTED
WITHIN 10 DAYS	

FEB2 8 1992 OIL CON. DIV

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: # PROPOSAL IS TO DEEPEN OR FLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PROPOSED NEW PRO

I hereby certify that the information above a true and complete to the best of my know SKINATURE	edge zod belief. 	_ DATE	_02/2	8/92	
TYPE OR PRINT NAME RON MAHAN	、 	TELEPHO	NE 1032	7-49	<u>161</u>
(This space for State Use)	DEPUTY OIL & GAS INSPECTOR, DIST. #3	DATE	IAR	05	19(

		nvelope to address
	P 553 308 258 US Postal Service Bus Postal Service Receipt for Certified Mail No Insurance Coverage Provided. No Insurance Provided. Netrion 11 & Gas Serlio Serlio Postage Postage Postage Postage Street Postage Postage Street Postage Secial Delivery Fee Restricted Delivery Fee Restricted Delivery Fee Restricted Delivery Fee	op of e
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CFT CREATIVE FUTURE TECHNOL OGIES MARKETING | 0 1996 INDUSTRIAL PRODUCT SALES AND Main Office #505-632-0662 _ P.O. BOX 364 FARMINGTON, NM 87499 PHONE: (505) 327- 4919 FAX: (505) 327:4919 ERVATION DIVISION

NM ENERGY MINERALS & NATURAL RESOURCES **OIL CONSERVATION DIVISION** 2040 SOUTH PACHECO STREET SANTA FE, NEW MEXICO 87505

JUNE 21, 1996

(n)

ATTN: MARK ASHLEY

REFERENCE: Final information for application submittal for Sunco Trucking operating Coleman Oil & Gas Disposal Well #1 reclassification to Class I Operation.

Dear Mark:

The attached information includes the plugging bond estimated by third party, well cement bond log, hydrocarbon water analysis including EPA approved method 8010 and 8310 (other water analysis previously submitted), MIT back pressure test witnessed by Aztec office, and Insurance bond renewal to cover inflation.

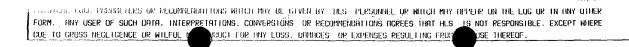
Please contact me if you have any further information needed so we can get this approval as soon as possible.

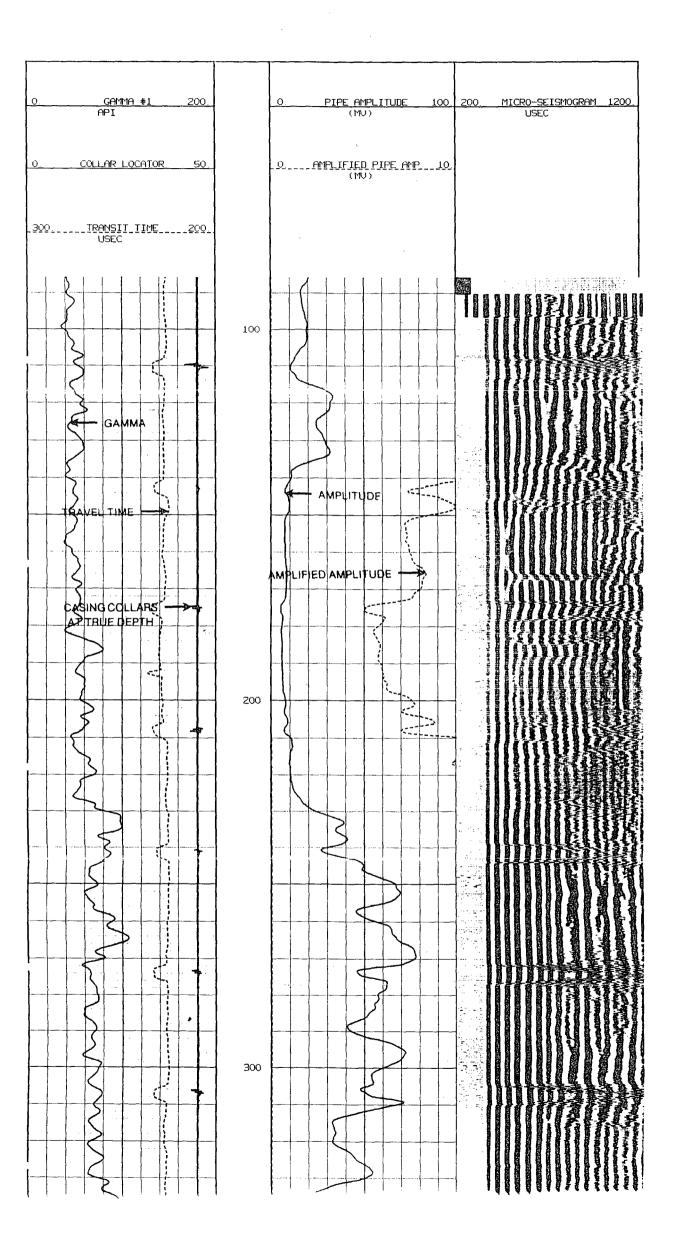
Thank You,

Chuck Badsgard Vice-President- Sunco Trucking

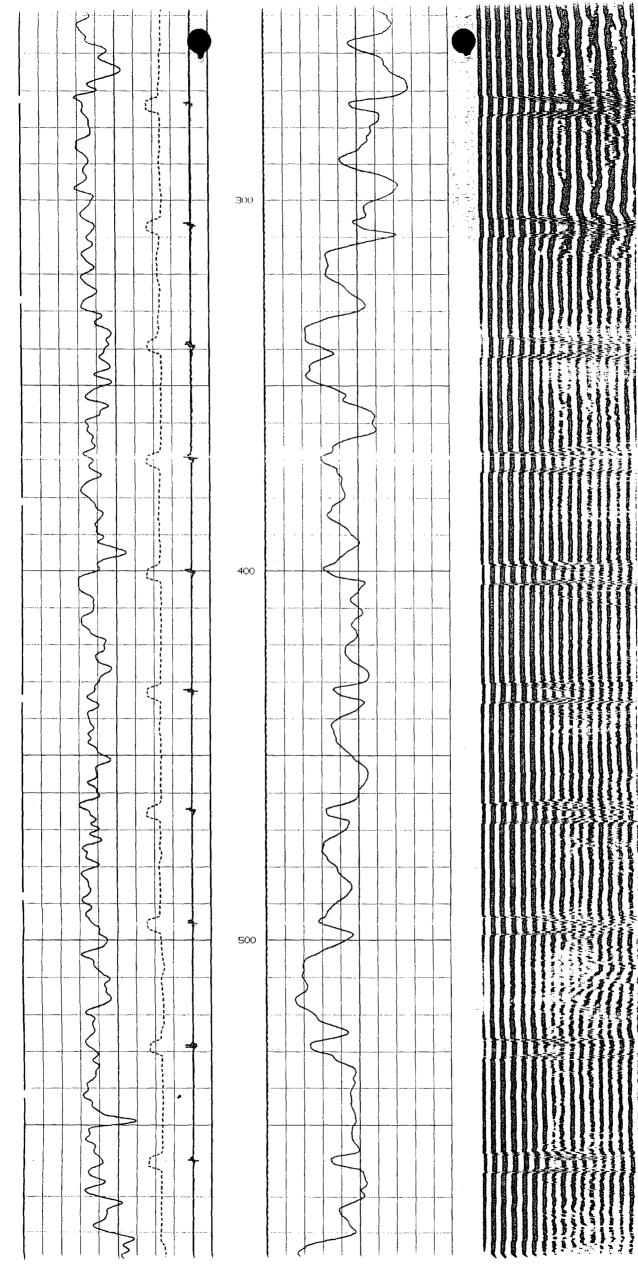
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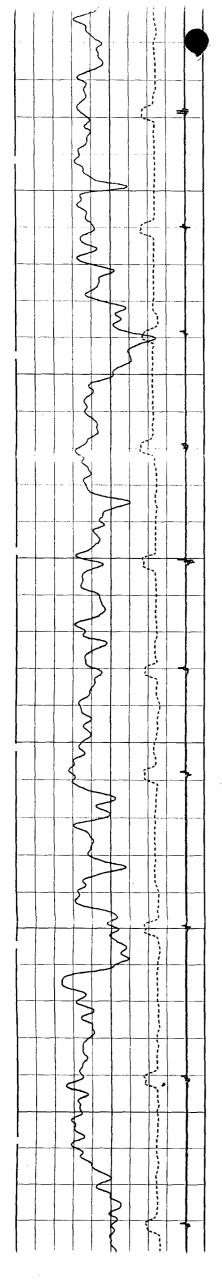


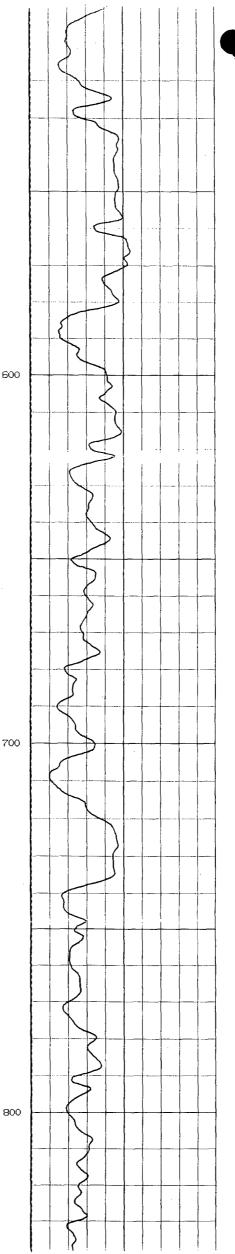
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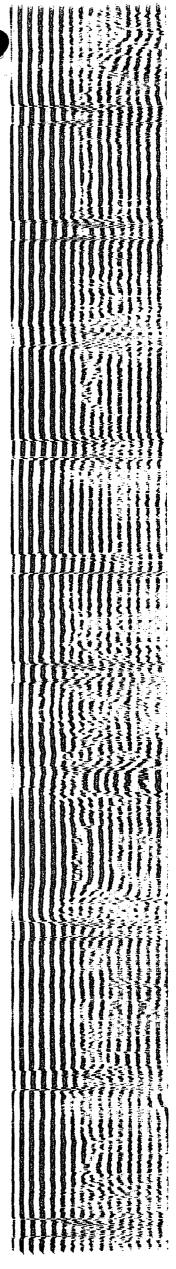


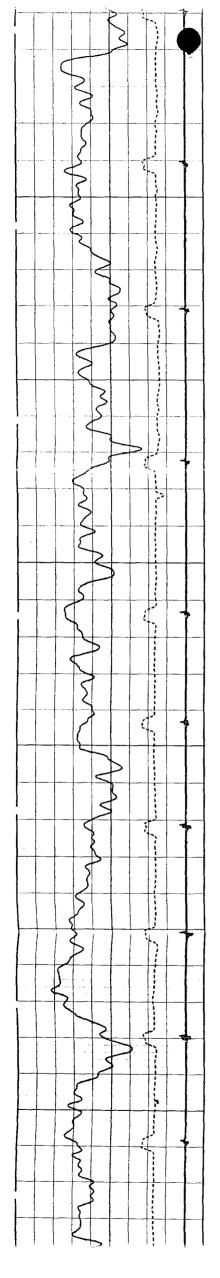
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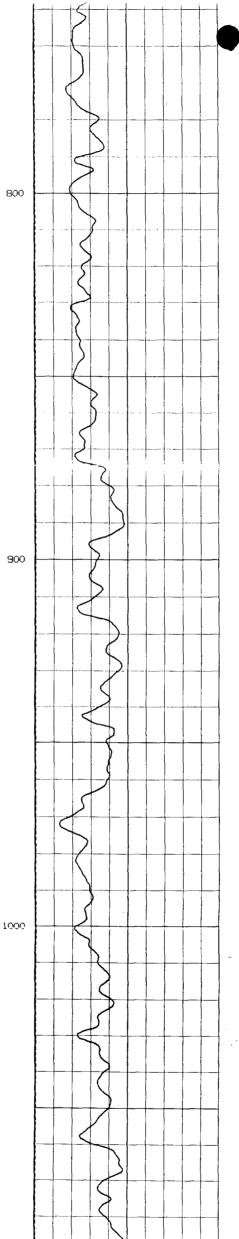
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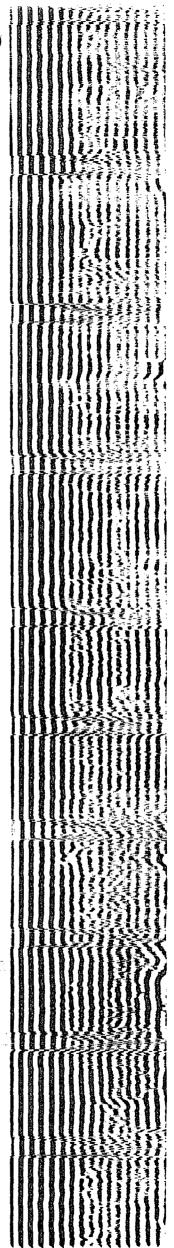


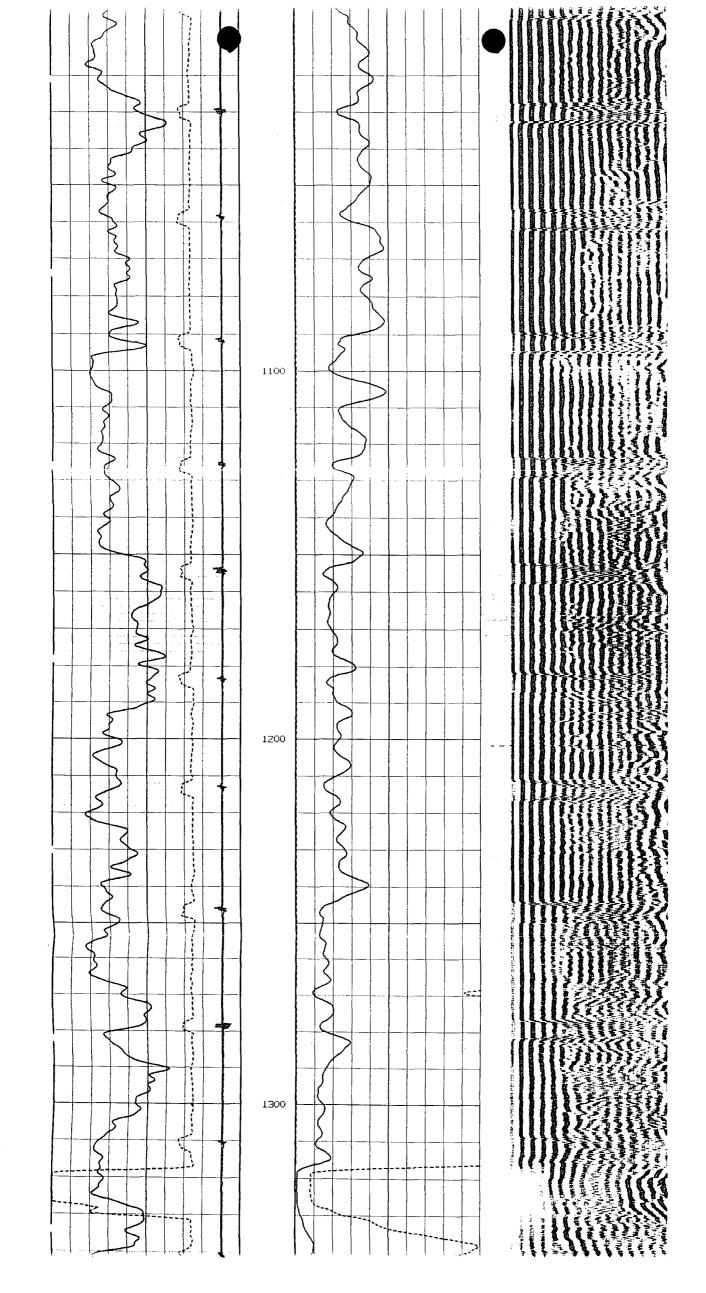


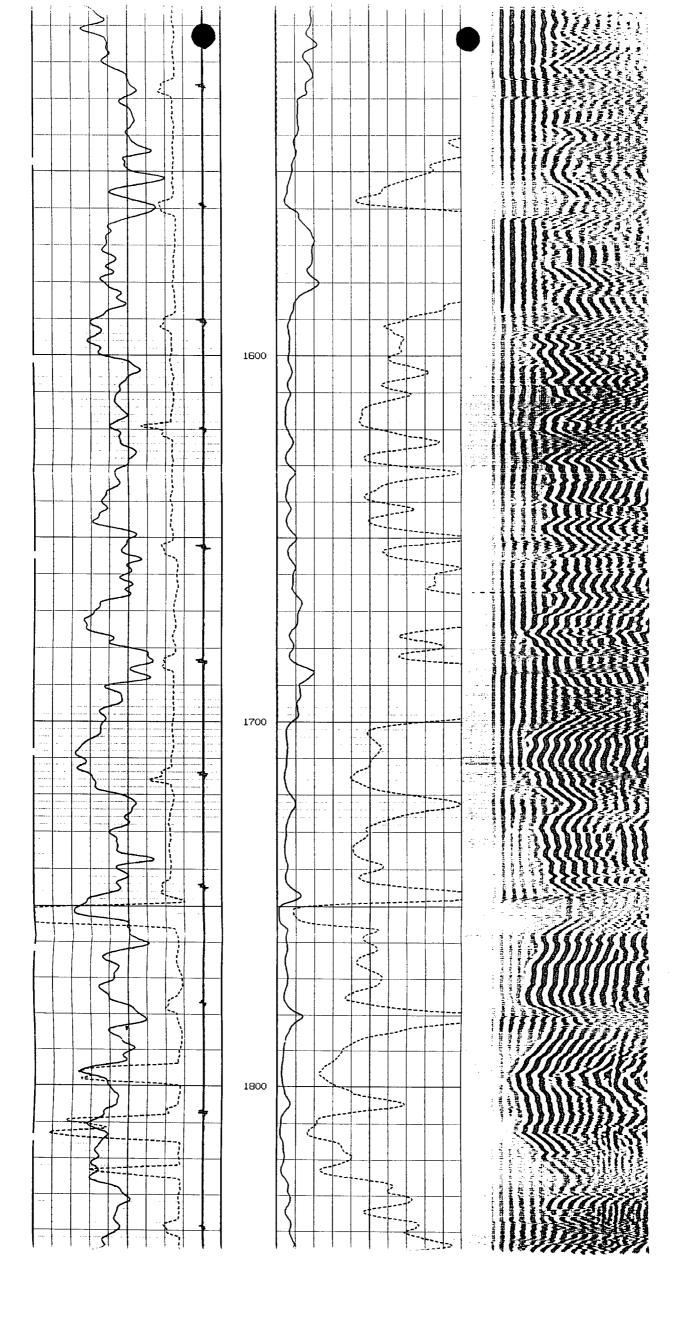


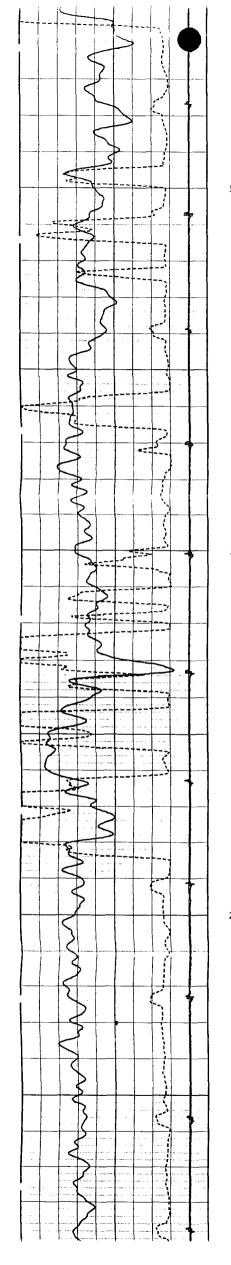


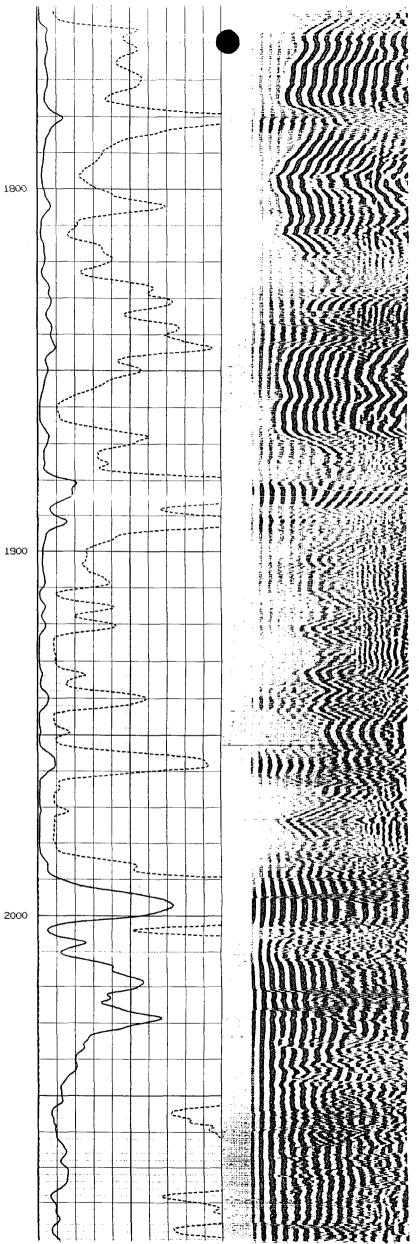


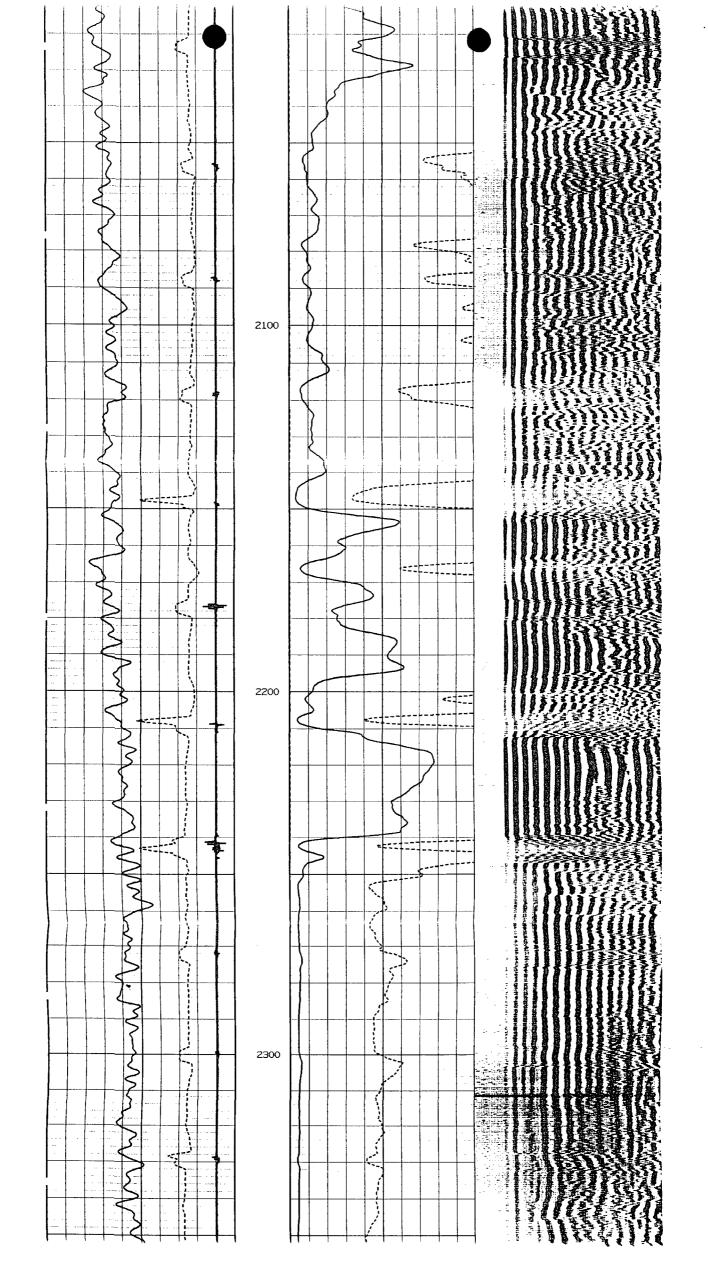




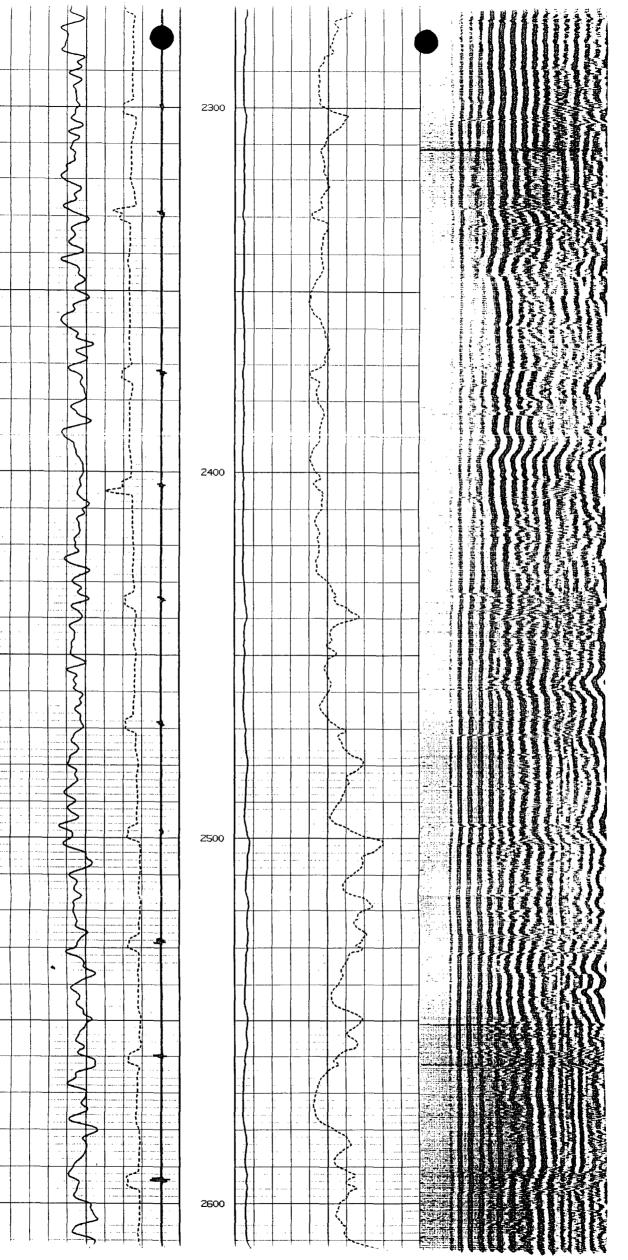




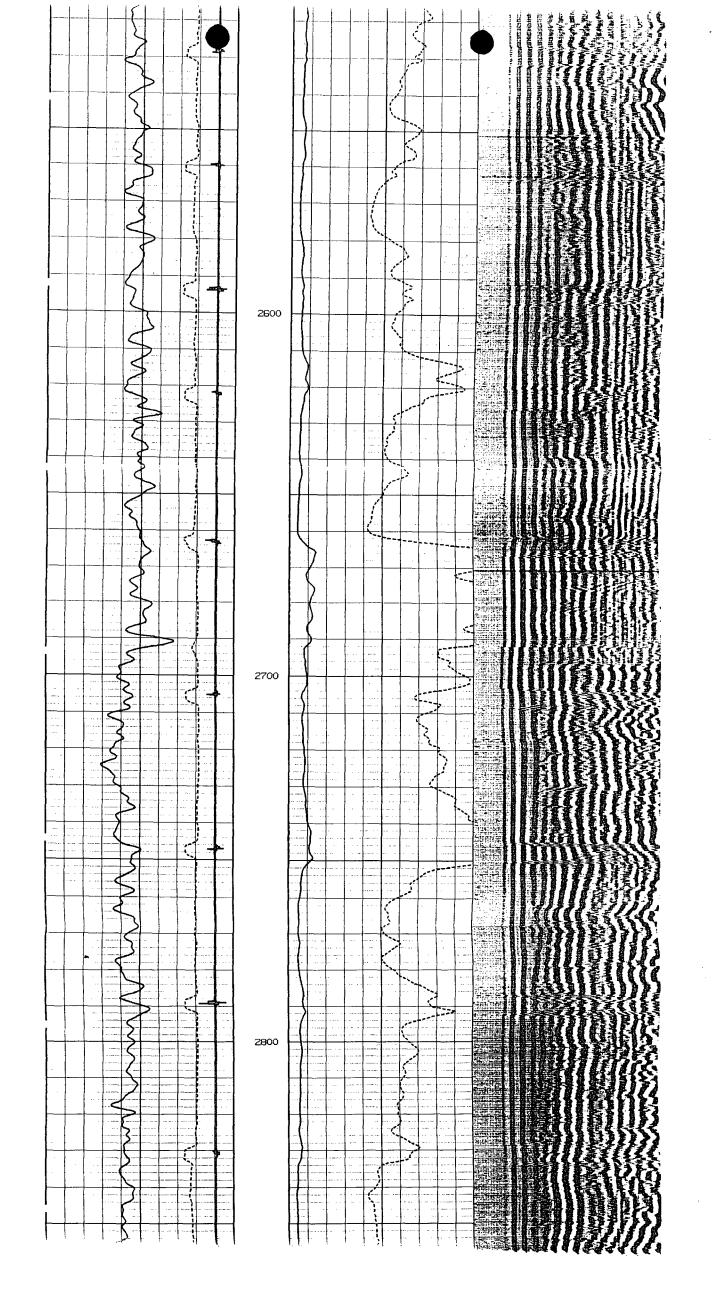


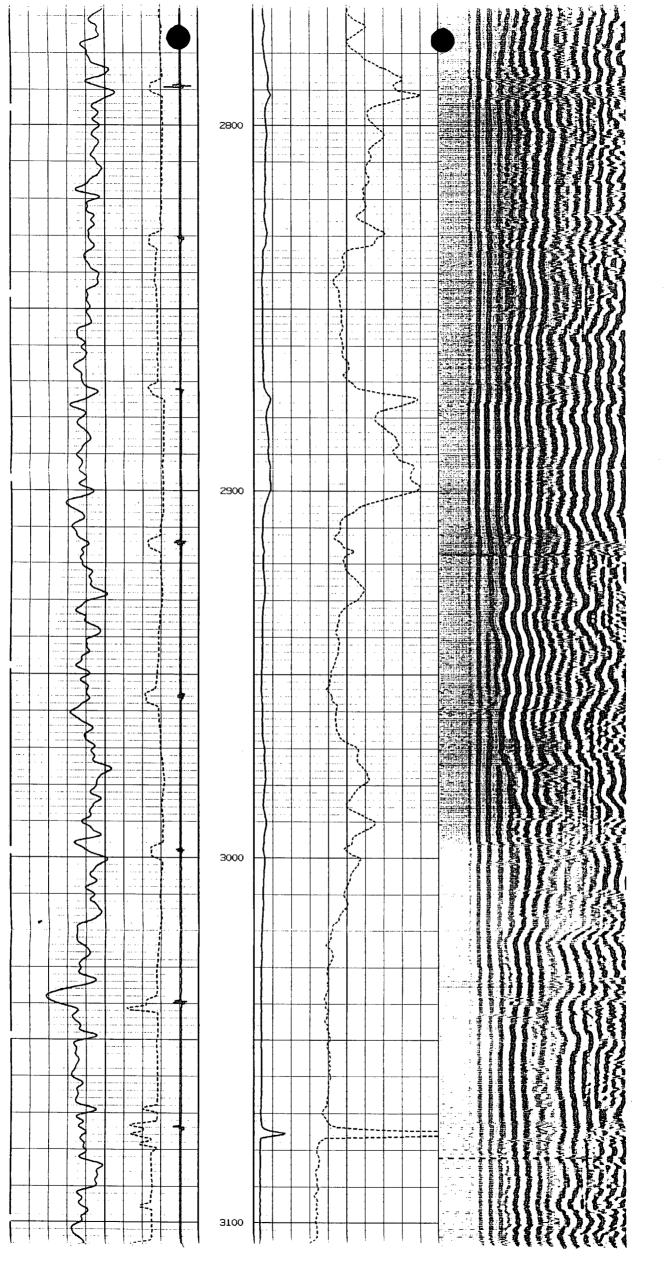


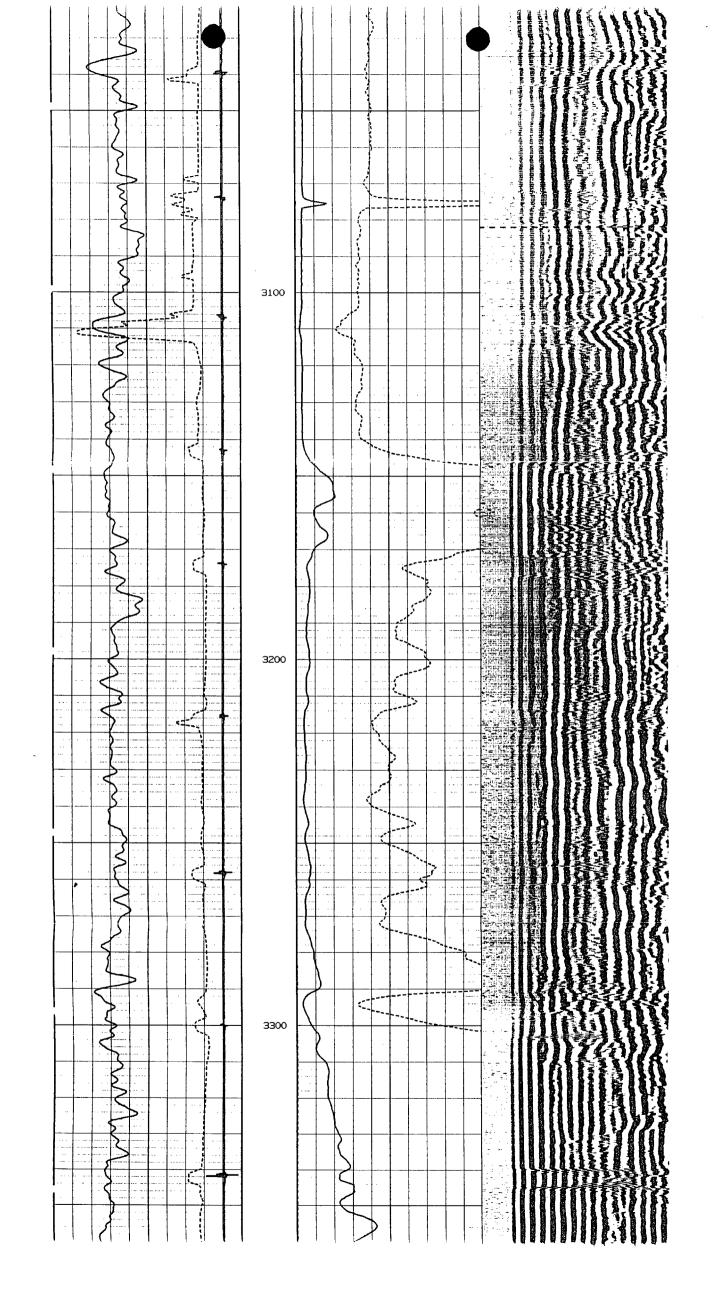
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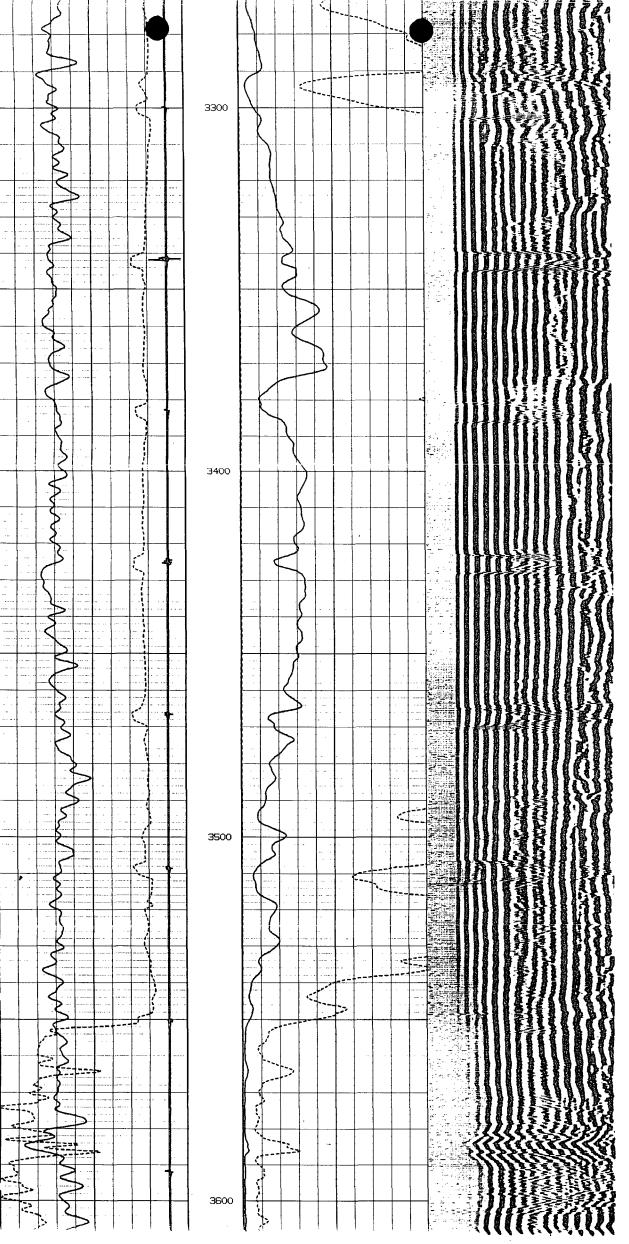
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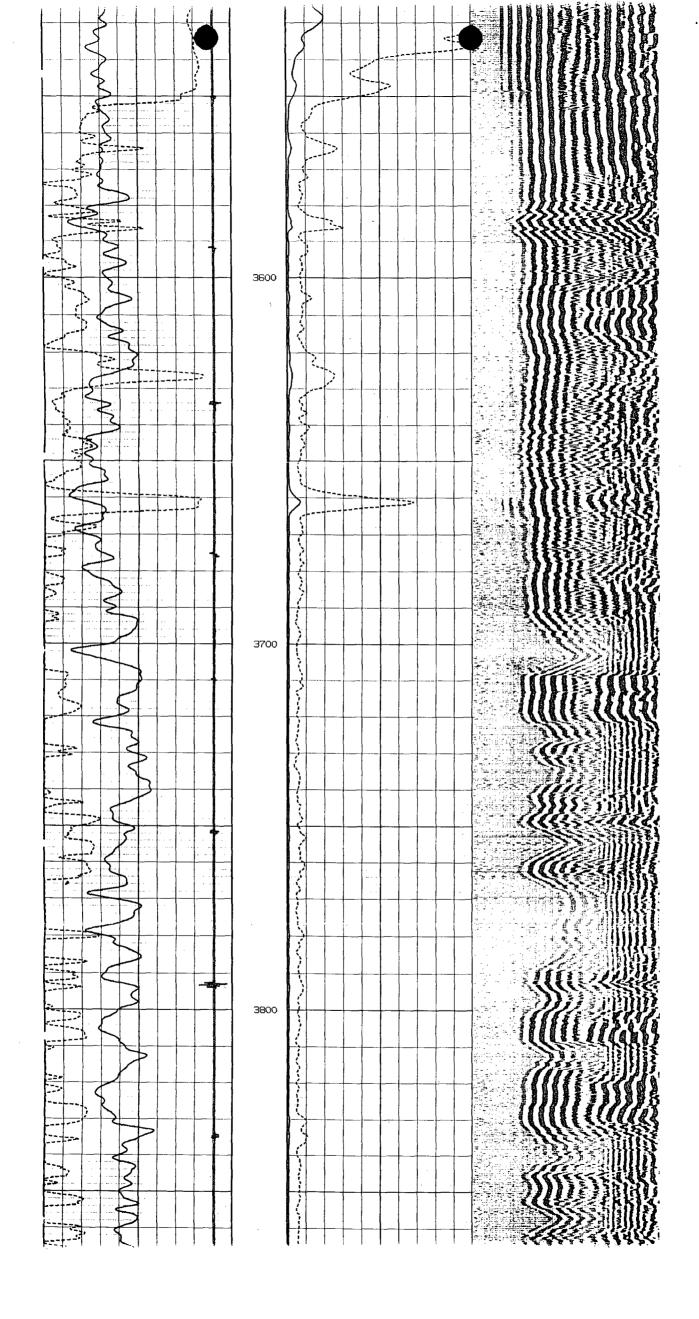




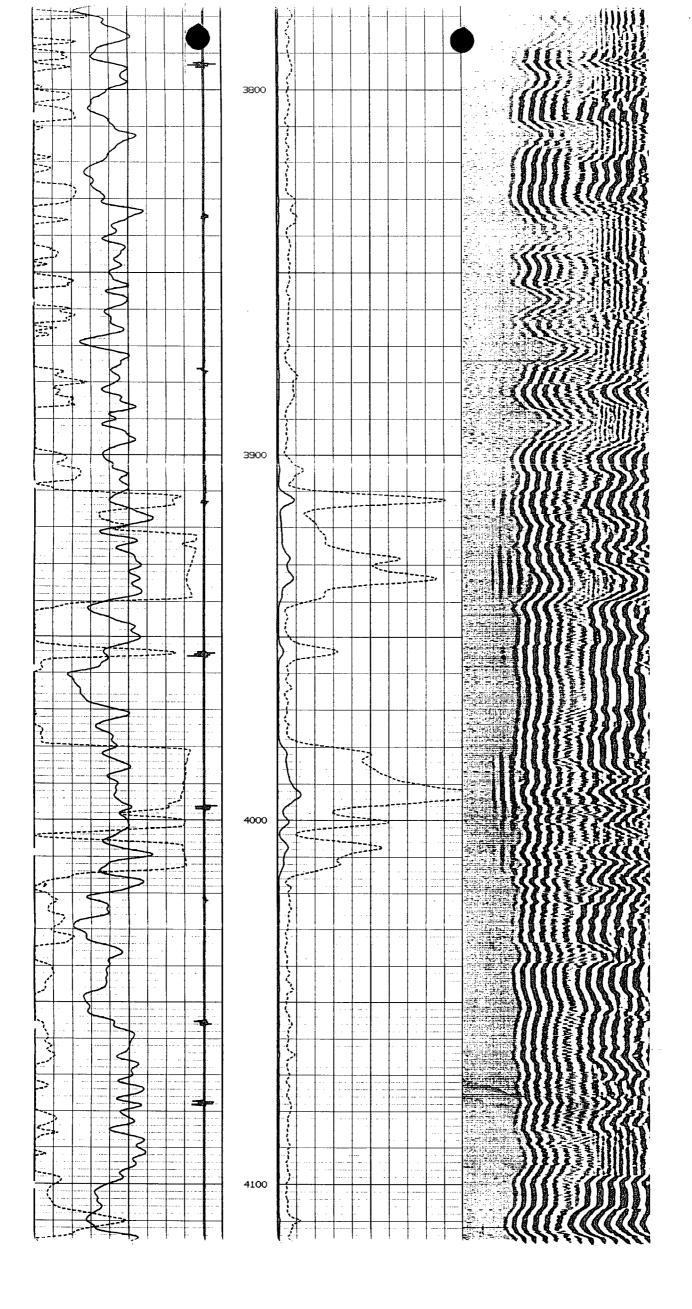
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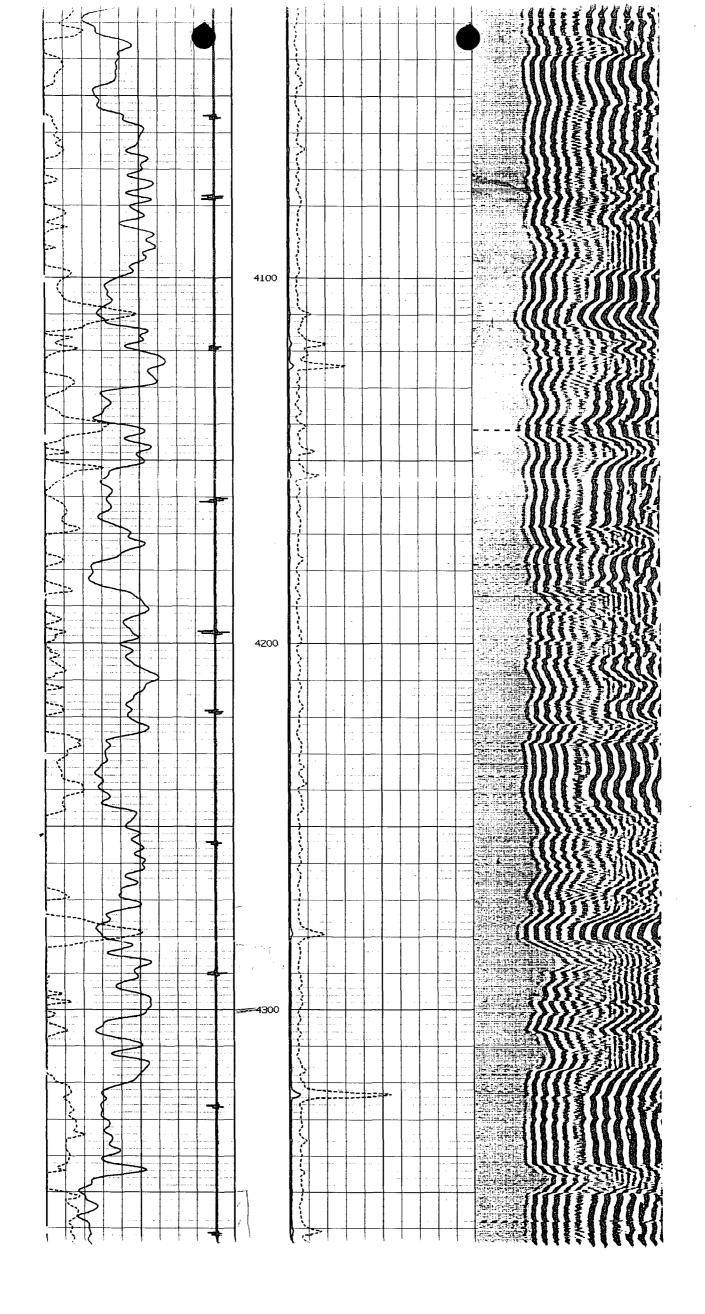


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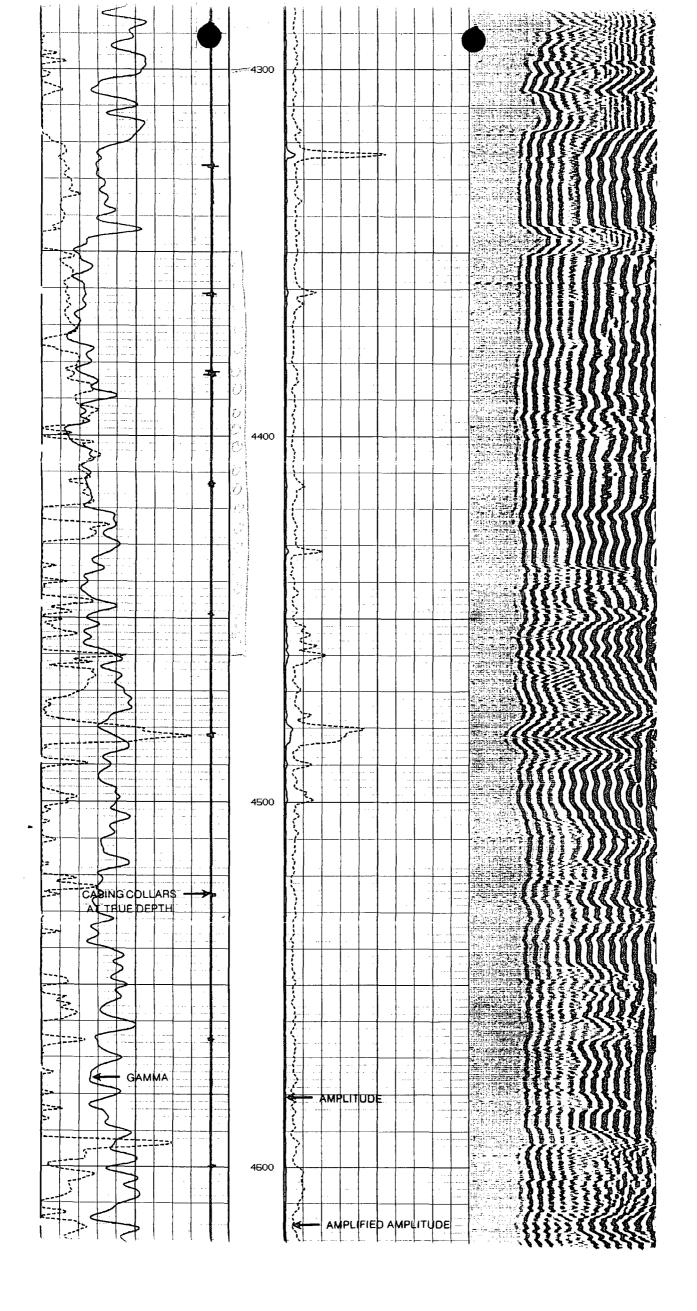


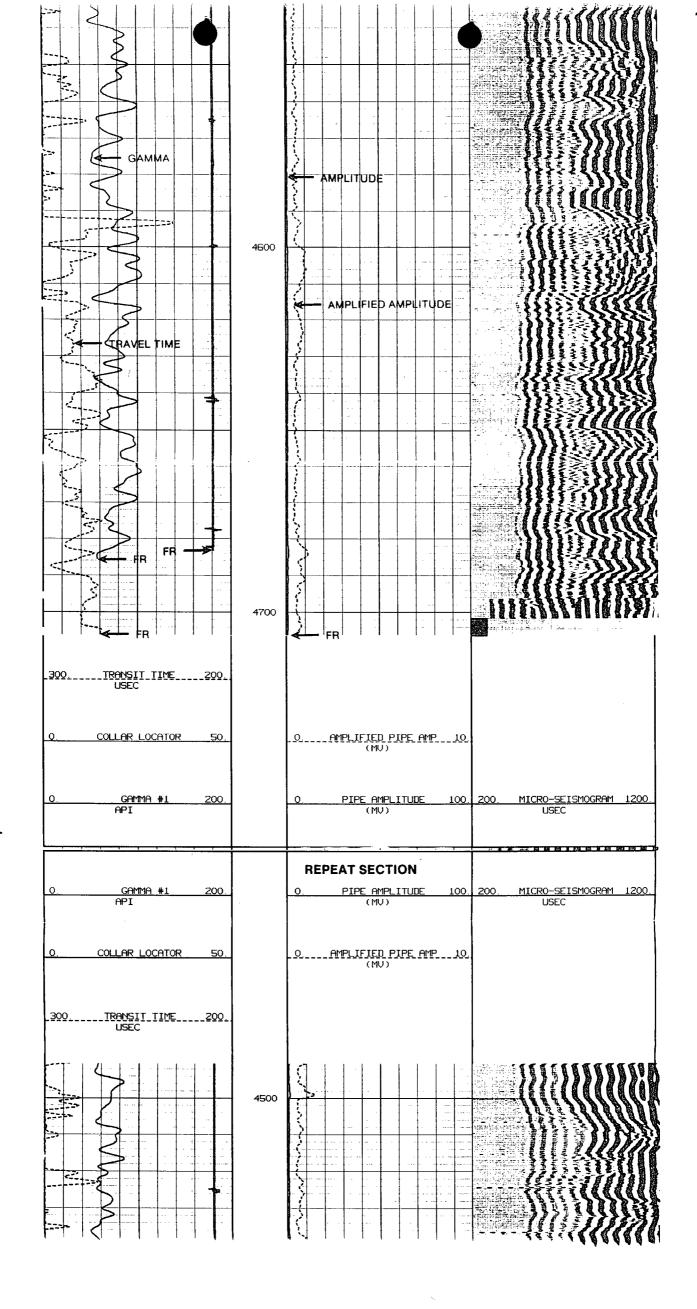
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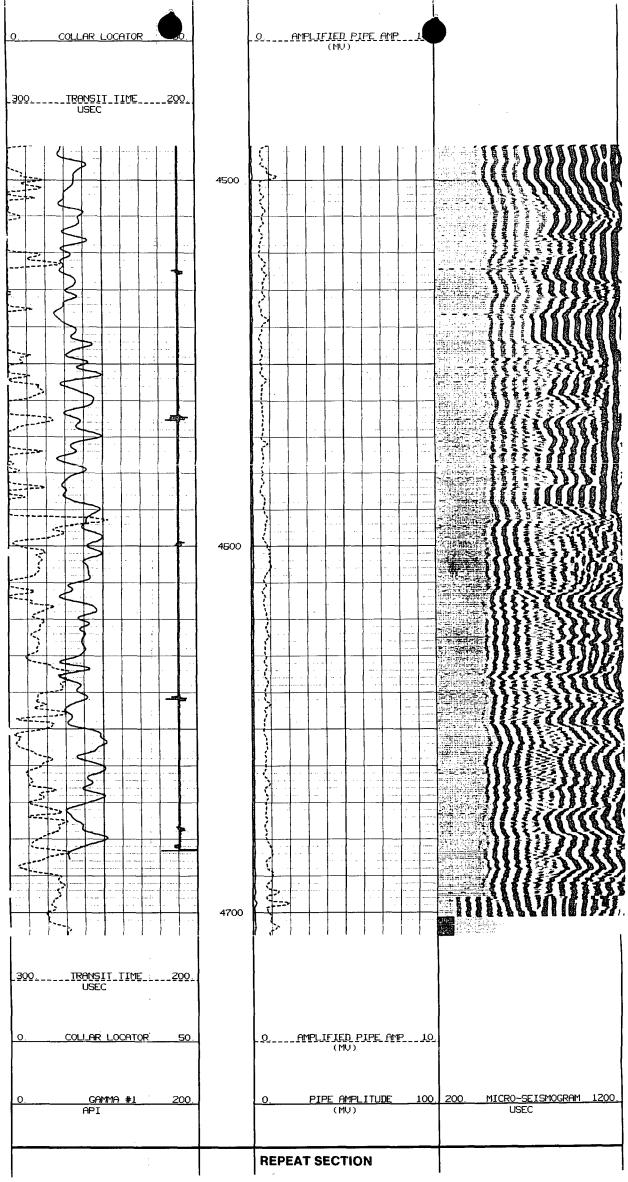


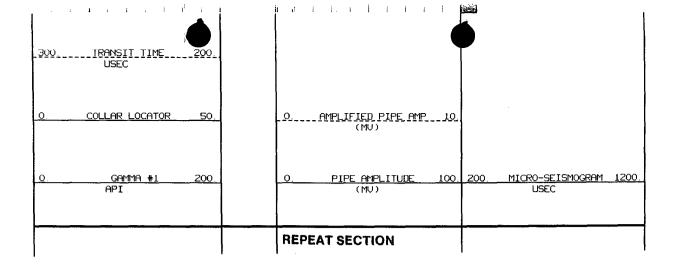


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Charter Member FDIC

New Mexico Energy, Minerals & Natural Resources Department

Letter of Credit

Bank: <u>First National Bank of Farmington</u> Bank Address: <u>P.O. Box 4540</u>, Farmington, NM 87499-4540 Bank ABA Number: <u>102200546</u>

Irrevocable Letter of Credit No. 541 This Letter of Credit is effective: July 5, 1996 Expiration Date is at the Close of Business on: July 5, 1997

Beneficiary: New Mexico Energy, Minerals & Natural Resources Dept. Attn: Mark Ashley 2040 South Pacheco Street Santa Fe, NM 87505

Sir or Madam:

We hereby establish our Irrevocable Letter of Credit in your favor and authorize drawing(s) on First National Bank of Farmington by order(s) and for account of Sunco Trucking Company, Farmington, NM 87401, up to an aggregate amount of Seventeen Thousand Eight Hundred and No/100 U.S. Dollars (\$17,800.00) available by your drafts at sight accompanied by:

Beneficiary's statement certifying that: "The signer is a duly authorized official acting on behalf of the New Mexico Energy, Minerals & Natural Resources Department and that the amount of the accompanying sight draft is due and payable to the New Mexico Energy, Minerals & Natural Resources Department and further that Sunco Trucking Company has for a period of more than 15 days neglected, failed, or refused to pay such amount although requested to do so by the New Mexico Energy, Minerals & Natural Resources Department."

We hereby agree with bona fide holders that all drafts drawn under and in compliance with the terms of this credit shall meet with due honor presentation and delivery of documents as specified to the drawee if drawn and presented for negotiation on or before the expiration date.



Charter Member FDIC

New Mexico Energy, Minerals & Natural Resources Department Sunco Trucking Company Letter of Credit No. 541 Page 2

It is a condition of this Letter of Credit that it is deemed to be automatically extended without amendment for additional one year periods (not to exceed five consecutive years) from the expiration date, July 5, 1997, unless thirty (30) days prior to any expiration date, we notify you by registered mail that we elect not to consider this Letter of Credit renewed for any such additional period.

Such notice of our intention not to renew this Letter of Credit as provided for herein shall authorize you to draw upon this Letter of Credit, unless Sunco Trucking Company provides you, at least fourteen (14) calendar days prior to the then current expiration date, with a replacement letter of credit with terms and conditions substantially identical to those contained herein.

We certify that the amount of the credit herein established will not be reduced for any reason during the period of this instrument without your written consent.

We will promptly notify you of any notice received or action filed alleging the insolvency of bankruptcy of the Bank, or alleging any violations of regulatory requirements which could result in suspension or revocation of the Bank's charter of license to do business.

In the event the Bank becomes unable to fulfill our obligations under this Letter of Credit for any reason, notice shall be given immediately to you.

This Letter of Credit is subject to the Uniform Customs and Practice for Documentary Credits (1993 version), International Chamber of Commerce Publication No. 400. If this Letter of Credit expires during an interruption of business as described in Article 17 of said Publication No. 400, the Bank hereby specifically agrees to effect payment if this Letter of Credit is drawn against within 30 days after the resumption of business.



Charter Member FDIC

New Mexico Energy, Minerals & Natural Resources Department Sunco Trucking Company Letter of Credit No. 541 Page 3

IN WITNESS WHEREOF, the Bank has hereunto set its signature and seal this 54 day of 2000, 1996.

FIRST WAT DONAL BANK OF FARMINGTON

By Len Scalzi

Senior Vice President

James D. Rose Executive Vice President



ACKNOWLEDGEMENT

On this <u>SWh</u> day of <u>San Juan</u>, 1996, before me, a Notary Public in and for the County of <u>San Juan</u>, in the State of <u>New</u> <u>Mexico</u>, appeared <u>Len Scalzi</u>, to me personally known who, being by me duly sworn, did say that he is <u>Senior Vice President</u> of <u>First</u> <u>National Bank of Farmington</u>, and <u>James D. Rose</u>, to me personally known who, being by me duly sworn, did say that he is <u>Executive</u> <u>Vice President</u>, of <u>First National Bank of Farmington</u>, the bank named in and which executed the within instrument, and that the seal affixed to said instrument is the seal of said Bank, and that said instrument was signed, sealed and delivered in behalf of said Bank by authority of its Board of Directors, and they, as such, offer acknowledged said instrument to be the free act and deed set forth.

Sharing the Hometown Spirit

Post Office Box 4540 • Farmington, New Mexico 87499-4540 • (505)326-9000 • TDD(TYY) 326-9035

<u>District I</u> • (505) 393-6161 P. O. Box 1980	New Mexico	
Hobbs, NM 88241-1980	Energy Minerals and Natural Resources Department	Revised 12/1,
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	O' Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131	Submit Origi Plus I Coj to Sant: I Copy to appropr District Of

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)







Operator: Su	nco Trucking Company
Address: 70	8 South Tucker Farmington NM 87401
Contact Person:	Chuck Badsgard Phone: 505-327-0416
Location:	/4 /4 Section 2 Township 29N Range R12 Submit large scale topographic map showing exact location.
Attach the name,	telephone number and address of the landowner of the facility site.
Attach the descrip	ption of the facility with a diagram indicating location of fences, pits, dikes and tanks on the
Attach a descripti	on of all materials stored or used at the facility:
Attach a descripti water must be inc	ion of present sources of effluent and waste solids. Average quality and daily volume objuded.
Attach a descripti	on of current liquid and solid waste collection/treatment/disposal procedures.
Attach a descripti	ion of proposed modifications to existing collection/treatment/disposal systems.
Attach a routine i	nspection and maintenance plan to ensure permit compliance.
Attach a continge	ncy 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 in
Attach a facility cl rules, regulations	iosure plan, and other information as is necessary to demonstrate compliance with any ot and/or orders.
_	
CERTIFICATION	

1

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

NAME:	Chuck Badsgard	Title:	Vice-President
Signature:	Chark Budijard	Date:	May 13, 1996
5			

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

APPLICANT: SUNCO TRUCKING COMPANY 708 SOUTH TUCKER AVE. FARMINGTON NM 87401

. *1*

SUBMITTED BY: CREATIVE FUTURE TECHNOLOGIES P.O. BOX 364 FARMINGTON NM 87499-0364

CONTACTS: CHUCK BADSGARD 505-327-0416 JERRY CATES 505-632-0662

MAY 13, 1996

- 1. Type: Modification to discharge plan
- 2. Operator: Sunco Trucking Company 708 South Tucker Ave. Farmington NM 87401 Contact: Chuck Badsgard 505-327-0416
- 3. Location: Section 2 Township 29N Range R12W (See Attached Topographic Map)
- 4. Land Owner: Coleman Oil & Gas 708 South Tucker Farmington NM 87401
- 5. Description: See Attached Drawing
- 6. Stored Materials: Potassium Permanganate in 110 LB metal sealed cans of dry product and Sodium Hypochloride 550 LB plastic drums of solution. The products are stored in metal building with portable skid and sealed door.
- 7. Effluent and Waste Solids: The daily water volume averages about 2000-2800 BPD consisting of produced water from natural gas and oil wells. The average quality is saltwater of about 13,000 TDS.
- 8. Collection/Treatment/Disposal Procedures: The water is recieved at the facility by truck and unloaded into oil tank seperator. The water is channeled through an oil production seperator and a series of solids collection tanks removing all oil and as much solids as possible. It also goes through a lined and netted skimmer pond before being temporarily stored in a large lined evaporation pond. In the pond it is treated to maintain a safe H₂S level and control odors. It is then transfered to the injection pump station where it is filtered and injected into the Point Lookout formation. The disposal rate and volumes are monitered and recorded.
- 9. Modifications: The purpose of this application is to reclassify the existing well from a "Class II" to a "Class I" disposal allowing the acceptance of sources of Oil & Gas produced wastes still to be "non-hazardous" RCRA exempt.
- 10. Inspection and Compliance: The facility is to be walked at least twice a day with hand held H₂S air monitor and a water sample to be taken once a day. The information is logged in a book kept in the office at the facility. The current training and updated compliance procedures will be handled by the sight disposal manager monitering operations and procedures.

11. Contingency Plan: In the unlikly evant of an accidental spill or discharge the OCD office shall first be notified and then one of the following prodedures; If liquid waste there is a standby 40 BBL trailer mounted vacuum system with hoses for the collection of liquids. If there is a dyke breakage a standby backhoe is avalible to repair it.

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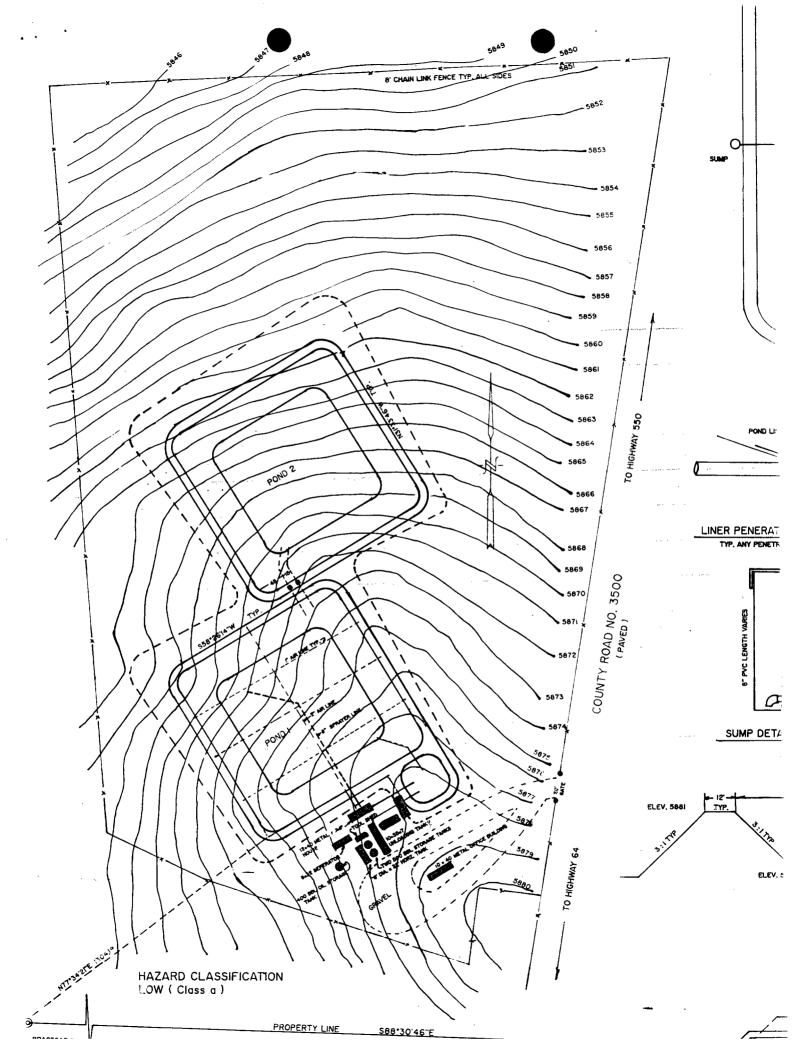
- 12. Geological/Hydrological Information: See attached.
- 13. Closure Plan: Upon the closure of the facility the OCD shall be notified and a reclamation process will be employed to return any soil to its natural condition and no other wastes shall be accepted.

14. Certification

. · . .

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

Name: Chuck Badsgard	Title:	Vice-President
Signature: Click Backsond	Date:	5/13/94



<u>District I</u> - (505) 393-6161 P. O. Box 1980	New Mexico	
Hobbs, NM 88241-1980	Energy Minerals and Natural Resources Department	Revised 12/1
<u>District II</u> - (505) 748-1283 811 S. First Artesia, NM 88210 <u>District III</u> - (505) 334-6178 1000 Rio Brazos Road Aztec, NM 87410 <u>District IV</u> - (505) 827-7131	O' Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131	Submit Origi Plus I Coj to Sant: I Copy to appropr District Of

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)







1. Type: Modification

2. Operator: Sunco Trucking Company

Address: 708 South Tucker Farmington NM 87401

Contact Person: Chuck Badsgard Phone: 505-327-0416

- 3. Location: _____/4 ___/4 Section 2 Township 29N Range R12W 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 OCI rules, regulations and/or orders.
- 14. CERTIFICATION

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

Chuck Badsgard NAME: Unel Budiçard Signature: (

Title:	Vice-President
•••••	

Date: May 13, 1996

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

APPLICANT: SUNCO TRUCKING COMPANY 708 SOUTH TUCKER AVE. FARMINGTON NM 87401

•, •

SUBMITTED BY: CREATIVE FUTURE TECHNOLOGIES P.O. BOX 364 FARMINGTON NM 87499-0364

CONTACTS: CHUCK BADSGARD 505-327-0416 JERRY CATES 505-632-0662

MAY 13, 1996

- 1. Type: Modification to discharge plan
- 2. Operator: Sunco Trucking Company 708 South Tucker Ave. Farmington NM 87401 Contact: Chuck Badsgard 505-327-0416

•••

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- 4. Land Owner: <u>Coleman Oil & Gas</u> 708 South Tucker Farmington NM 87401
- 5. Description: See Attached Drawing
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- 9. Modifications: The purpose of this application is to reclassify the existing well from a "Class II" to a "Class I" disposal allowing the acceptance of sources of Oil & Gas produced wastes still to be "non-hazardous" RCRA exempt.
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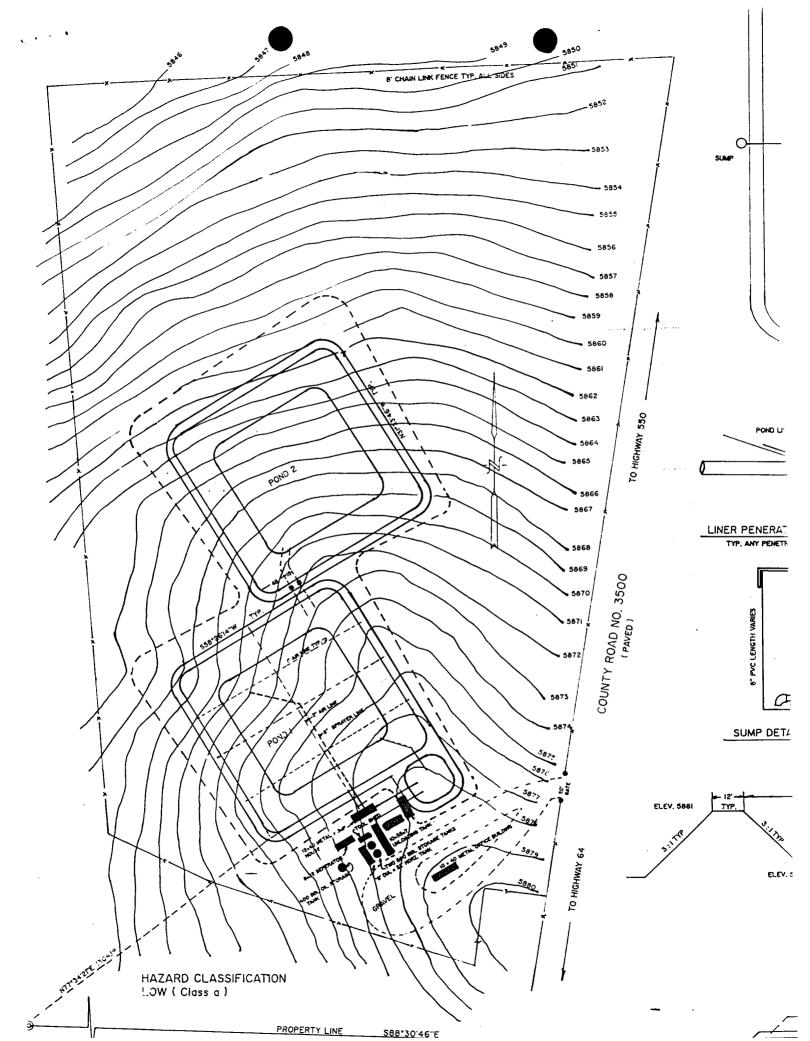
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14. Certification

• • •

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

Name: <u>Chuck Badsgard</u>	Title: Vice-President
Signature: Qual Bedegaul	Date: 5/13/96



S.W.D AND OR INJECTION WELL INSPECTION FORM

DATE: 1-11-96 INSPECTOR: Ervest Cardora U.M.O.C.O
OPERATOR: CULEMAN OGG INC.
WELL NAME: SUPO WELL# 1
LOCATION: UT.LETTER: \underline{F} SEC: $\underline{7}$ TWN: $\underline{791}$ RGE: $\underline{121}$
PRESSURE LIMIT: 1850 INJ. PRESSURE TBG: 1981
TBG/CSG ANNULUS PRESSURE: 125# @ 11:28 Am; While injecting
INTERMEDIATE CSG. PRESSURE:
BRADENHEAD PRESSURE:
*REQUIRED POSITIVE TBG\CSG ANNULUS PRESSURE TO BE MAIN- TAINED ON WELL AS STIPULATED ON WFX OR SWD ORDER: 1014 MIL
TYPE OF INJ. PRESSURE LIMITING DEVICE USED: Murphy Kill Switch,
electricity shuts du trijection pump.
KILL OR POP-OFF PRESSURE SETTING OF PRESSURE LIMITING DEVICE:
REMARKS: INJECTION pressure limiting device tested this date
Murphy switch does shut pump down as required, device was
narually actuated to test.
•
RECEIVED
JUL 1 5 1996
Environmental Bureau Oil Conservation Division



NEW MEXICO GERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

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

June 5, 1996

CERTIFIED MAIL RETURN RECEIPT NO. Z-765-962-951

Mr. Chuck Badsgard Coleman Oil and Gas, Inc. c/o Sunco Trucking Company P.O. Box 443 Farmington, New Mexico 87499

RE: Discharge Plan UIC-CLI-005 (Formerly GW-235) Class I non-hazardous Oil Field Waste Disposal Well Coleman Oil and Gas, Inc. Sunco Disposal Well No. 1 Unit Letter E, Sec. 2, Twn 29 N, Rng 12 W Sunco Disposal Facility San Juan County, New Mexico

Dear Mr. Badsgard:

The New Mexico Oil Conservation Division (OCD) has received and is in the process of reviewing the Coleman Oil and Gas, Inc. (Coleman) discharge plan application dated May 6, 1996 and May 13, 1996 for the Coleman Class I non-hazardous oil field waste disposal well located in unit letter E, Section 2, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico. Before the review process can be completed, the OCD is requesting the following additional information:

<u>Area of Review:</u> The OCD requests that all wells within the area of review have the production casing cemented 500 feet above the proposed injection zone. The top of the proposed injection zone is at 4,350 feet. The OCD has calculated the top of cement (TOC) in the Meredian McGrath A 1 in Unit Letter I, Sec. 3, Twn. 29 N, Rng. 12 W to be at 4,875 feet. For this well Coleman must either submit additional information confirming that there is adequate cement over the proposed injection zone, or submit a schedule for annual pressure monitoring. Pressure monitoring results shall be submitted to the OCD Santa Fe Office within 30 days of recording.

<u>Plugging Bond</u>: Coleman shall have in effect, prior to discharge plan approval, a plugging bond approvable by the Division, for the estimated amount required to plug the Sunco Disposal No. 1 according to the proposed closure plan and adjusted for inflation for the estimated life of the well. The required bond shall be a third party estimate.

Mr Chuck Badsgard June 5, 1996 Page 2

> <u>Mechanical Integrity Testing</u>: A mechanical integrity test will be conducted on the Sunco Disposal No. 1 prior to discharge plan approval and annually in accordance with OCD testing procedures. The OCD will be notified prior to the test so that they may witness the test.

> <u>Well Construction:</u> Cement for all strings of casing will be circulated to surface. For the Sunco Disposal No. 1 Coleman must submit additional information in the form of drilling records, logs, and OCD Aztec verification to the OCD confirming that there is cement circulated behind all strings of casing.

If you have any questions, pleze call me at (505) 827-7155.

Sincerely,

lak kely

Mark Ashley Geologist

xc: OCD Aztec Office

CFT CREATIVE FUTURE TECHNOLOGIES INDUSTRIAL PRODUCT SALES AND MARKETING Main Office #505-632-0662 P.O. BOX 364 FARMINGTON, NM 87499 PHONE: (505) 327-4919 FAX: (505) 327-4919

Oil Conservation Division State of New Mexico 2040 South Pacheco Santa Fe, New Mexico 87505 May 21, 1996

Attn: Mark Ashley

Reference: Addition to Coleman Oil & Gas Class I disposal application including water testing proceedures, depth to ground water, known surface waters, and current water analysis.

I. Test Proceedure

All waters with unknown sources will be rejected at the facility until water analysis can be verified and approved for disposal by NMOCD. All <u>new</u> known sources will have water analysis on file prior to disposal and tests shall be EPA approved methods.

II. Ground and Surface Waters

The depth to ground is estimated between 75 and 100 feet with predicted source being the Naciemento. The current state records at the State Engineers office does not show any wells in this Section 2, 29N, R12W. Surface waters consist of the Animas River 2 miles to the north and the San Juan River 5 miles to the south of boarders of the disposal facility.

III. Water Analysis

The most recent water analysis was taken May 20, 1996 tested for aeromatic and halogenic hydrocarbons, heavy metals, major cations, and PAH. (See attachment L)

Thank You,

Jerry Cates President- CFT Inc.

Polyaromatic Hydrocarbons EPA Method 8310

Creative Futures Technologies

Project ID:	Sunco	•	Report Date:	06/13/96
Sample ID:	Evaporation Pond		Date Sampled:	05/20/96
Lab ID:	3656	•	Date Received:	05/21/96
Sample Matrix:	Water		Date Extracted:	05/24/96
			Date Analyzed:	06/03/96

Target Analyte	Concentration (µg/L)
	-0.40
Acenaphthene	<2.13
Acenaphthylene	<3.74
Anthracene	< 1.49
Benzo(a)anthracene	< 0.88
Benzo(a)pyrene	< 0.39
Benzo(b)fluoranthene	< 0.19
Benzo(k)fluoranthene	< 0.34
Benzo(ghi)perylene	< 1.23
Chrysene	< 0.88
Dibenzo(a,h)anthracene	< 0.72
Fluoranthene	< 0.15
Fluorene	< 1.29
Indeno(1,2,3-cd)pyrene	< 1.05
Naphthalene	< 5.82
Phenanthrene	3.28
Pyrene	< 0.13

Quality Control:

Surrogate 1,4-Dichlorobutane

Percent Recovery 101

Acceptance Limits 80 - 120%

Review



Chlorinated Hydrocarbons EPA Method 8010 <u>Creative Futures Technologies</u>

Project ID: Sample ID: Lab ID: Sample Matrix:

Sunco	Report Date:	06/13/96
Evaporation Pond	Date Sampled:	05/20/96
3656	Date Received:	05/21/96
Water	Date Extracted:	05/24/96
	Date Analyzed:	06/03/96

Target Analyte	Concentration (µg/L)
Bromoform	<2.5
Bromomethane	<5.0
Carbon Tetrachloride	<2.5
Chlorobenzene	<2.5
Chlorodibromomethane	<2.5
Chloroethane	<5.0
2 - Chloroethyl vinyl ether	<5.0
Chloroform	<2.5
Chloromethane	<5.0
Dichlorobromomethane	<2.5
Dichlorodifluoromethane	<5.0
1,1-Dichloroethane	<2.5
1,2-Dichloroethane	<2.5
1,1-Dichloroethene	<2.5
trans-1,2-Dichloroethene	<2.5
cis-1,2-Dichloroethene	<2.5
1,2-Dichloropropane	<2.5
cis-1,3-Dichloropropene	<2.5
trans-1,3-Dichloropropene	<2.5
Methylene chloride	<2.5
1,1,2,2-Tetrachloroethane	<2.5
Tetrachloroethene	<2.5
1,1,1-Trichloroethane	<2.5
1,1,2-Trichloroethane	<2.5
Trichloroethene	<2.5
Trichlorofluoromethane	<5.0
Vinyl chloride	<5.0
1,2-Dichlorobenzene	<2.5
1,3-Dichlorobenzene	<2.5
1,4-Dichlorobenzene	<2.5

Quality Control:

Surrogate ,4-Djchlorobutane N,

Percent Recovery 101

Acceptance Limits 80 - 120%

Review

PURGEABLE AROMATICS

Creative Futures Technologies

Project ID:	Sunco	•	Report Date:	6/3/96
Sample ID:	Evaporation Pond		Date Sampled:	5/22/96
Lab ID:	3656	•	Date Received:	5/22/96
Sample Matrix:	Water		Date Analyzed:	5/23/96
Preservative:	Cool			
Condition:	Intact			

Target Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Benzene	16.3	5.00
Toluene	33.1	5.00
Ethylbenzene	ND	5.00
m,p-Xylenes	147	10.0
o-Xylene	42.6	5.00

Total BTEX 239

ND - Analyte not detected at the stated detection limit.

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Trifluorotoluene	98	88 - 110%
	Bromofluorobenzene	107	86 - 115%
Poforonco:	Mothod 602.2 Durgoot	ale Aremetice: Ecderel Regi	ator Val 40 No. 200

Reference: Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Comments:

annen Analyst

Omi/k

Review



General Water Quality Creative Futures Technologies, Inc.

Project ID:	Sunco	Date Reported:	05/31/96
Sample ID:	Evaporation Pond	Date Sampled:	05/20/96
Laboratory ID:	3656	Time Sampled:	NA
Sample Matrix:	Water	Date Received:	05/21/96

Parameter	i den en Analytical Result	Units	
General	Lab pH	7.8	s.u.
	Lab Conductivity @ 25° C	45,700	μmhos/cm
	Total Dissolved Solids @ 180°C	41,700	mg/L
	Total Dissolved Solids (Calc)	35,800	mg/L
Anions	Total Alkalinity as CaCO ₃	1,640	mg/L
	Bicarbonate Alkalinity as CaCO ₃	1,640	mg/L
	Carbonate Alkalinity as CaCO ₃	NA	mg/L
	Hydroxide Alkalinity as CaCO ₃	NA	mg/L
	Chloride	20,500	mg/L
	Sulfate	853	mg/L
	Nitrate + Nitrite - N	NA	
	Nitrate - N	NA	
	Nitrite - N	NA	·
Cations	Total Hardness as CaCO3	1,260	mg/L
	Calcium	49.8	mg/L
	Magnesium	276	mg/L
	Potassium	170	mg/L
	Sodium	13,000	mg/L
Data Validation		:	Acceptance Leve
	Cation/Anion Difference	2.69	+/- 5 %
	TDS (180):TDS (calculated)	1.2	1.0 - 1.2

Reference

U.S.E.P.A. 600/4-79-020, <u>Methods for Chemical Analysis of Water and Wastes</u>, 198 <u>Standard Methods For The Examination Of Water And Wastewater</u>, 18th ed., 1992.

Review



General Water Quality Creative Futures Technologies, Inc.

Sunco	Date Reporte	06/03/96
Evaporation Pond	Date Sample	05/22/96
3656	Time Sample	NA
Water	Date Receive	05/22/96
	Evaporation Pond 3656	Evaporation PondDate Sample3656Time Sample

Parameter.	Although Anna Anna Anna Anna Anna Anna Anna Ann	Analytical Result	Units
Total Metals			
	Arsenic	0.107	mg/L
	Barium	3.15	mg/L
	Cadmium	<0.02	mg/L
	Chromium	<0.20	mg/L
	Lead	0.007	mg/L
	Mercury	<0.001	mg/L

Selenium.....

Silver

Reference

U.S.E.P.A. 600/4-79-020, <u>Methods for Chemical Analysis of Water and Wastes</u>, 1983. <u>Standard Methods For The Examination Of Water And Wastewater</u>, 18th ed., 1992.

mg/L

mg/L

0.348

0.098

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Review

General Water Quality Quality Control Report

Creative Futures Technologies, Inc.

Report Date:

06/03/96

Parameter	Analytical Result	Certified Value	Acceptance Range	Units
Laboratory pH	9.06	9.05	8.85 - 9.25	s.u.
Conductivity	1340 .	1210	1030 - 1400	μmhos/cm
Total Dissolved Solids	990 •	905	787 - 1020	mg/L
Total Alkalinity	167	174	155 - 193	mg/L
Chloride	155	155	144 - 167	mg/L
Sulfate	119	116	99.8 - 132	mg/L
Total Hardness	249	254	218 - 290	mg/L
Calcium	79.8	78.8	66.9 - 88.7	mg/L
Magnesium	NA	NA	NA	mg/L
Potassium	110	112	95.2 - 129	mg/L
Sodium	180	180	153 - 207	mg/L

Reference:

U.S.E.P.A. 600/4-79-020, "Methods for Chemical Analysis of Water and W 1983. Standard Methods For The Examination Of Water And Wastewater,

1992.

Comments:

Sinch

Review

General Water Quality Quality Control Report

Creative Futures Technologies, Inc.

Report Date:

06/03/96

Parameter	Analytical Result	Certified Value	Acceptance Range	Units
Arsenic	0.0049	0.0050	0.0043 - 0.0058	mg/L
Barium	4.87	5.00	4.50 - 5.50	mg/L
Cadmium	0.222	0.212	0.174 - 0.250	mg/L
Chromium	0.110	0.098	0.080 - 0.115	mg/L
Lead	0.566	0.576	0.472 - 0.680	mg/L
Mercury	0.0064	0.0059	0.0044 - 0.0073	mg/L
Selenium	0.010	0.010	0.0095 - 0.0115	mg/L
Silver	0.065	0.071	0.058 - 0.083	mg/L

Reference:

U.S.E.P.A. 600/4-79-020, "Methods for Chemical Analysis of Water and W 1983. <u>Standard Methods For The Examination Of Water And Wastewater</u>, 1992.

Comments:

Duriema

Review

STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

BRUCE KING

December 22, 1993

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

ANITA LOCKWOOD

Walsh Engineering & Production Corporation 204 North Auburn Farmington, NM 87401

Attention: Paul C. Thompson

RE: Injection Pressure Increase, Coleman Sunco Disposal Well No. 1, Section 2, Township 29 North, Range 12 West, San Juan County, New Mexico

Dear Mr Thompson:

Reference is made to your request dated December 8, 1993 to increase the surface injection pressure on the above referenced well. This request is based on a step rate tests conducted on this well on December 7, 1993. The results of the test have been reviewed by my staff and we feel an increase in injection pressure on this well is justified at this time.

You are therefore authorized to increase the surface injection pressure on the following well:

Well and Location	Maximum Injection Surface Pressure	
Coleman Sunco Disposal Well No. 1 1595' FNL - 1005' FWL Unit E, Section 2, Township 29 North, Range 12 West	2850 psig	
This well located in San Juan County, New Mexico.		

The Division Director may rescind this injection pressure increase if it becomes apparent that the injected water is not being confined to the injection zone or is endangering any fresh water aquifers.

Sincerely, William J. I Director

WJL/BES/amg

cc: Oil Conservation Division - Aztec File: SWD-457 PSI-X, 4th Quarter STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

January 19, 1993

BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

Coleman Oil & Gas Company P.O. Drawer 3337 Farmington, New Mexico 87499

Mike Leonard

RE: Injection Pressure Increase Sunco Disposal No. 1 "E" 02-29N-12W San Juan County, New Mexico

Dear Sir:

Reference is made to your request dated January 15, 1993, to increase the surface injection pressure on the Sunco Disposal Well No. 1. This request is based on step rate tests conducted on the well on January 14, 1993. The results of the tests have been reviewed by my staff and we feel an increase in injection pressure on the well is justified at this time.

You are therefore authorized to increase the surface injection pressure on the following well: WELL AND LOCATION SURFACE PRESSURE

> Sunco Disposal Well No. 1 1595' FNL & 1005' FWL "E" 2-29N-12W

The Division Director may rescind this injection pressure increase if it becomes apparent that the injected water is not being confined to the injection zone or is endangering any fresh water aquifers.

Sincerely,

William J. LeMag Director

WJL/DC/jc

cc: Oil Conservation Division - Aztec File: SWD-457

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

1350 PSIG

NO WAITING	PERIOD			
COMPANY:	Cole	MAN BIL	& CAS CO	ALPANY
ADDRESS:		DRAWER	3337	
CITY, STATE	E, ZIP:	FARMINGI	on NRA	87499
ATTENTION:	MIKE	= LEONAL		

Re: Injection Pressure Increase UNCO DISPOSAL NO. 1 E'_ 02.2911.12W SAN JUN County, New Mexico

Dear Sir:

Reference is made to your request dated <u>JANUARY 15</u>, 19<u>93</u>, to increase the surface injection pressure on <u>the SUNCO DISPOSAC</u> <u>MACC NO. 1</u>. This request is based on step rate tests conducted on these wells <u>JAN 14</u>, 19<u>93</u>. The results of the tests have been reviewed by my staff and we feel an increase in injection pressure on these wells is justified at this time.

You are therefore authorized to increase the surface injection pressure on the following wells:

Well & Location

 $Z \cdot Z9N \cdot IZW$

Maximum Injection Surface Pressure

1350 PSIG

DISPOSAL WELL NO. 1 FNL = 1005'FWL

The Division Director may rescind this injection pressure increase if it becomes apparent that the injected water is not being confined to the injection zone or is endangering any fresh water aquifers.

xc: T. GALLEGOS D. CATANACH FILE-SWD 457 OCD-AZTEC

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

January 19, 1993

BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

Coleman Oil & Gas Company P.O. Drawer 3337 Farmington, New Mexico 87499

Mike Leonard

RE: Injection Pressure Increase Sunco Disposal No. 1 "E" 02-29N-12W San Juan County, New Mexico

SURFACE PRESSURE

1350 PSIG

Dear Sir:

Reference is made to your request dated January 15, 1993, to increase the surface injection pressure on the Sunco Disposal Well No. 1. This request is based on step rate tests conducted on the well on January 14, 1993. The results of the tests have been reviewed by my staff and we feel an increase in injection pressure on the well is justified at this time.

You are therefore authorized to increase the surface injection pressure on the following well: WELL AND LOCATION MAXIMUM INJECTION

> Sunco Disposal Well No. 1 1595' FNL & 1005' FWL "E" 2-29N-12W

The Division Director may rescind this injection pressure increase if it becomes apparent that the injected water is not being confined to the injection zone or is endangering any fresh water aquifers.

Sincerely, William J. LeMa

William J. LeMaj Director

WJL/DC/jc

cc: Oil Conservation Division - Aztec File: SWD-457 POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE. NEW MEXICO 87504 (505) 827-5800

FRFT



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

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

ADMINISTRATIVE ORDER NO. SWD-457

APPLICATION OF COLEMAN OIL & GAS, INC.

ADMINISTRATIVE ORDER OF THE OIL CONSERVATION DIVISION

Under the provisions of Rule 701(B), Coleman Oil & Gas, Inc. made application to the New Mexico Oil Conservation Division on July 1, 1991, for permission to complete for salt water disposal its Sunco Well No. 1 located in Unit E of Section 2, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico.

THE DIVISION DIRECTOR FINDS THAT:

(1) The application has been duly filed under the provisions of Rule 701(B) of the Division Rules and Regulations.

(2) Satisfactory information has been provided that all offset operators and surface owners have been duly notified; and

(3) The applicant has presented satisfactory evidence that all requirements prescribed in Rule 701 will be met.

(4) An objection has been received but has subsequently been withdrawn.

IT IS THEREFORE ORDERED THAT:

(1) The applicant herein, Coleman Oil & Gas, Inc. is hereby authorized to complete its Sunco Well No. 1 located in Unit E of Section 2, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico, in such a manner as to permit the injection of salt water for disposal purposes into the Point Lookout member of the Mesaverde formation at approximately 4380 feet to approximately 4480 feet through 2 7/8 inch plastic lined tubing set in a packer located at approximately 4340 feet.

Administrative Order No. SWD-457 Coleman Oil & Gas, Inc. January 13, 1992 Page 2

IT IS FURTHER ORDERED THAT:

The operator shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.

Prior to commencing injection operations into the well, the casing shall be pressure tested from the surface to the packer setting depth to assure the integrity of said casing.

The casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge at the surface or left open to the atmosphere to facilitate detection of leakage in the casing, tubing or packer.

The injection well or system shall be equipped with a pressure limiting device which will limit the wellhead pressure on the injection well to no more than 868 psi.

The Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the injected fluid from the Point Lookout member of the Mesaverde formation. Such proper showing shall consist of a valid step-rate test run in accordance with and acceptable to this office.

The operator shall notify the supervisor of the Aztec district office of the Division of the date and time of the installation of disposal equipment, of the mechanical integrity test, so that the same may be inspected and witnessed.

The operator shall immediately notify the supervisor of the Aztec district office of the Division of the failure of the tubing, casing or packer in said well and shall take such steps as may be timely and necessary to correct such failure or leakage. Administrative Order No. SWD-457 Coleman Oil & Gas, Inc. January 13, 1992 Page 3

<u>PROVIDED FURTHER THAT</u>, jurisdiction of this cause is hereby retained by the Division for such further order or orders as may be deemed necessary or convenient for the prevention of waste and/or protection of correlative rights; upon failure of the operator to conduct operations in a manner which will ensure the protection of fresh water or in a manner inconsistent with the requirements set forth in this order, the Division may, after notice and hearing, terminate the injection authority granted herein.

The operator shall submit monthly reports of the disposal operations in accordance with Rule 706 and 1120 of the Division Rules and Regulations.

Approved at Santa Fe, New Mexico, on this 13th day of January, 1992.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION WILLIAM J. LE

Director

SEAL

cc: Oil Conservation Division - Aztec US Bureau of Land Management - Farmington

jc\

ATIVE FUTURE

CHNOLOGIES

 INDUSTRIAL
 PRODUCT
 SALES
 AND
 MARKETING

 Main
 Office
 #505-632-0662
 OIL CONSERVE - ON DIVISION

 P.O. BOX 364
 FARMINGTON. NM 87499
 PHONE: (505) 327- 4919
 FAX: (505) 326-1313

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 RECEVED

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Oil Conservation Division State of New Mexico 2040 South Pacheco Santa Fe, New Mexico 87505 Office# 505-827-7155

CF1

March 6, 1996

RECEIVED

FEB 1 8 1996

Environmental Bureau Oil Conservation Division

- Attn: Mark Ashley Environmental Geologist
- Reference: Meeting on February 23rd, 1996 with Mark Ashley, Denny Foust, Chris Eustice, Pat Sanchez, Frank Chavez, Chuck Badsguard, and Jerry Cates concerning the Class I Disposal Well application requirements.

We at Creative Future technologies Inc. and Sunco Trucking appreciate the time spent in helping to submit our application and would like to confirm the following.

I. Area of Review

- a. The radius will be determined by the mathematical model equation which best suits the hydrogeological conditions and not necessarilly the one in the Water Quality Regulations Handbook.
- b. The radius can fall under one mile using the model equation however the current minimum is to be one mile as determined by the NMOCD.
- c. The variables in the equation such as injection rate, time, and storage co-efficient can be determined by the operator now Sunco Trucking.

II. Chemical Testing Requirements

a. The water Sunco has recieved from Giant Refinery has been tested and is considered non-hazardous non-exempt by the NMOCD. This water has been authorized for disposal until the Class I application is complete. Any new sources of non-exemt commercial Oil & Gas waste shall be tested by the operator and approved by the NMOCD prior to the acceptance at the disposal sight.

b. The evaporation pond will not have to be tested because the non-exempt will be tested before acceptance.

III. Training and Awareness

- a. With the help of the NMOCD an awareness program can be developed for Sunco employee's especially concerning the "exempt and non-exempt" waste classification.
- b. The Sunco Disposal Manager can be utilized to explain regulations and keep operators informed on changing polocies.

VI. Other Discussions

- a. It will not be necessary to net or cover the evaporation pond.
- b. The current monitering equipment is sufficient for thr well.
- c. The original application fee shall be \$1,380.00.
- d. The Point Lookout formation thickness can be determined by the well log.

The above meeting and discussion was an attempt to determine the economic feasibility of the new classification and most questions were of that intention.

Thank You,

Jerry Cates

Jerry Cates President- CFT Inc.

CC; Denny Foust Roger Anderson Frank Chavez Chris Eustice Pat Sanchez

Chuck Badsgard Vice-president- Sunco

AFFIDAVIT OF PUBLICATION

No. 35890

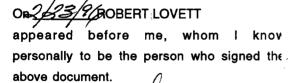
STATE OF NEW MEXICO County of San Juan:

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

Monday, February 12, 1996

and the cost of publication is:

\$76.28



My Commission Expires March 21, 1998

Legals NOTICE OF PUBLICATION STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT **OIL CONSERVATION DIVISION** Notice is hereby given that pursuant to the New Mexico Water Quality Control Commission Regula tions, the following discharge plan application has been submitted to the Director of the Oil Cor servation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827 7131: (GW-235) - Coleman Oll and Gas, Inc., Mr. Chuck Badsgard, P.O. Box 443, Farmington, New Mexico, 87499 has submitted a discharge plan application to reclassify their permitted Class II disposal well located in Section 2, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico to a Class I non-hazardous disposal well. Currently 2,000 barrels per day of oil field liquid waste classified as exempt from Resource Conservation and Recovery Act Subtitle III regulations are disposed of by injection into the Point Lookout Formation at a depth from 4,380 to 4,480 feet. The discharge plan application proposes to reclassify the category of the well to allow for the injection of an additional 800 barrels per day of oil field liquid waste that has been demonstrated to be "non-hazardous" by testing. 權法 A combined total of approximately 2,800 barrels per day will be disposed of by injection into the Point Lookout Formation. The total dissolved solids concentration of the injection water is approximately 24,000 mg/l. The total dissolved solids concentration of the formation fluids is approximately 14,000 mg/l. The discharge plan addresses construction, operation and monitoring of the well and associated surface facilities and provides a contingency plan in the event of accidental spills, leaks and other accidental discharges to the ground surface. Ground water most likely to be affected by any accidental discharge is at a depth from 78 to 90 feet and has a total dissolved solids concentration of approximately 450 mg/l. Any interested person may obtain further information from the Oil Conservation Division and ma submit written comments to the Director of the Oil Conservation Division at the address give above. The discharge plan application may be viewed at the above address between 8:00 a.r and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modi cation, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the da 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 resons why a hearing shall be held. A hearing will be held if the Director determines that there is si nificant public interest. If no public hearing is held, the Director will approve or disapprove the proposed plan based on i formation available. If a public hearing is held, the director will approve or disapprove the propose plan based on the information in the discharge plan application and information submitted at th hearing. GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, o this 5th day of February, 1996. STATE OF NEW MEXIC **OIL CONSERVATION DIVISIO** /s/William J. LeMa WILLIAM J. LEMAY, Direct SEAL Legal No. 35890 published in The Daily Times, Farmington, New Mexico on Monday, February 1 1996

COPY OF PUBLICATION

AFFIDAVIT OF PUBLICATION

No. 35890

STATE OF NEW MEXICO County of San Juan:

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

Monday, February 12, 1996

and the cost of publication is: \$71.19

DBERT LOVETT

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

My Commission Expires March 21, 1998

COPY OF PUBLICATION Legals NOTICE OF PUBLICATION STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT **OIL CONSERVATION DIVISION** Notice is hereby given that pursuant to the New Mexico Water Quality Control Commission Regula tions, the following discharge plan application has been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131: 👾 (GW-235) - Coleman Oll and Gas, Inc., Mr. Chuck Badsgard, P.O. Box 443, Farmington, New Mexico, 87499 has submitted a discharge plan application to reclassify their permitted Class II disposal well located in Section 2, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico to a Class I non-hazardous disposal well. Currently 2,000 barrels per day of oil field liquid waste classified as exempt from Resource Conservation and Recovery Act Subtitle III regulations are disposed of by injection into the Point Lookout 「日本の一日の Formation at a depth from 4,380 to 4,480 feet. The discharge plan application proposes to reclassify the category of the well to allow for the injection of an additional 800 barrels per day of oil field liquid waste that has been demonstrated to be "non-hazardous" by testing. A combined total of approximately 2,800 barrels per day will be disposed of by injection into the Point Lookout Formation. The total dissolved solids concentration of the injection water is approximately 24,000 mg/l. The total dissolved solids concentration of the formation fluíds is approximately 14,000 mg/l. The discharge plan addresses construction, operation and monitoring of the well and associated surface facilities and provides a contingency plan in the event of accidental spills, leaks and other accidental discharges to the ground surface. Ground water most likely to be affected by any accidental discharge is at a depth from 78 to 90 feet and has a total dissolved solids concentration of approximately 450 mg/l. Any interested person may obtain further information from the Oil Conservation Division and ma submit written comments to the Director of the Oil Conservation Division at the address give above. The discharge plan application may be viewed at the above address between 8:00 a.n and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modif cation, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the dat of publication of this notice during which comments may be submitted to him and a public hearin may be requested by any interested person. Requests for a public hearing shall set forth the rea sons why a hearing shall be held. A hearing will be held if the Director determines that there is sig nificant public interest. If no public hearing is held, the Director will approve or disapprove the proposed plan based on ir formation available. If a public hearing is held, the director will approve or disapprove the propose plan based on the information in the discharge plan application and information submitted at th hearing. GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, o this 5th day of February, 1996. STATE OF NEW MEXIC **OIL CONSERVATION DIVISIO** /s/William J. LeMa WILLIAM J. LEMAY, Direct

SEAL

Legal No. 35890 published in The Daily Times, Farmington, New Mexico on Monday, February 1 1996.

CREATIVE FUTURE



March 6, 1996

INDUSTRIAL PRODUCT SALES AND MARKETING Main Office #505-632-0662 P.O. BOX 364 FARMINGTON, NM 87499 PHONE: (505) 327-4919 FAX: (505) 326-1313

Oil Conservation Division State of New Mexico 2040 South Pacheco Santa Fe, New Mexico 87505 Office# 505-827-7155

Attn: Mark Ashley Environmental Geologist

RECENED FEB 1 8 1996 Environmental Bureau Oil Conservation Division Reference: Meeting on February 23rd, 1996 with Mark Ashley, Denny Foust, Chris Eustice, Pat Sanchez, Frank Chavez, Chuck Badsguard, and Jerry Cates concerning the Class I Disposal Well application requirements.

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Oil & Gas waste shall be tested by the operator and approved by the NMOCD prior to the acceptance at the disposal sight.

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Thank You,

Jerry Cates President- CFT Inc.

CC; Denny Foust Roger Anderson Frank Chavez Chris Eustice Pat Sanchez

Chuck Badsgard Vice-president- Sunco



NOTICE OF PUBLICATION

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT 2000 OIL CONSERVATION DIVISION USFWS - NMESSO

RECEIVED

FEB - 7 1996

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

(GW-235) - Coleman Oil and Gas, Inc., Mr. Chuck Badsgard, P.O. Box 443, Farmington, New Mexico, 87499 has submitted a discharge plan application to reclassify their permitted Class II disposal well located in Section 2, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico to a Class I non-hazardous disposal well. Currently 2,000 barrels per day of oil field liquid waste classified as exempt from Resource Conservation and Recovery Act Subtitle III regulations are disposed of by injection into the Point Lookout Formation at a depth from 4,380 to 4,480 feet. The discharge plan application proposes to reclassify the category of the well to allow for the injection of an additional 800 barrels per day of oil field liquid waste that has been demonstrated to be "non-hazardous" by testing. A combined total of approximately 2,800 barrels per day will be disposed of by injection into the Point Lookout Formation. The total dissolved solids concentration of the injection water is approximately 24,000 mg/l. The total dissolved solids concentration of the formation fluids is approximately 14,000 mg/l. The discharge plan addresses construction, operation and monitoring of the well and associated surface facilities and provides a contingency plan in the event of accidental spills, leaks and other accidental discharges to the ground surface. Ground water most likely to be affected by any accidental discharge is at a depth from 78 to 90 feet and has a total dissolved solids concentration of approximately 450 mg/l.

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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 discharge plan application and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation	n Commission at Santa Fe, New Mexico, on this 5th day
NO EFFECT FINDING	
The described action will have no effect on listed species, wetlands, or other important wildlife resources.	STATE OF NEW MEXICO
Date February 13, 1996 Consultation #GW960CD-1	OIL CONSERVATION DIVISION
Appressed By Junifer for Marting M	WILLIAM J. LEMAY, Director
U.S. FISH and WILDLIFE SERVICE NEW MEXICO ECOLOGICAL SERVICES FIELD OFFICE	



NEW MEXICO OIL CONSERVAT

ATION	AD NUMBER:466615	ACCOUNT: 56689
	LEGAL NO: 59060	<u>P.O. #9</u> 6199002997
206	LINESonce	at \$ 82.40
Affidavits:	· · · · · · · · · · · · · · · · · · ·	<u> </u>
Tax:	· · · · · · · · · · · · · · · · · · ·	5.48
Total:		\$ 93.13

STATE OF NEW MEXICO

Energy, Minerals and **Natural Resources** Department **Oil Conservation Division**

Notice is hereby given that tion of approximately 450 pursuant to New Mexico Wa- mg/l.

sion Regulations, the follow Any interested person may COUNTY OF SANTA FE tion has been submitted to from the Oil Conservation Diphone (505) 827-7131:

posal well. Currently 2,000 may be requested by any in barrels per day of oil field lig-terested_person. Requests_____FEBRUARY Subtitle III regulations are will be held if the Director de-/S/disposed of by injection into termines there is significant the Point Lookout Formation Public interest.

at a depth from 4,380 to 4,480

to allow for the injection of an plan based on information additional 800 barrets per available. If a public hearing day of oil field liquid waste is held, the director will apthat has been demonstrated prove or disapprove the proto be "non-hazardous" by posed plan based on informatesting. A combined total of tion in the discharge plan ap approximately 2,800 barrels plication and information per day will be disposed of by submitted at the hearing. injection into the Point Look-

out Formation. The total dis-GIVEN, under the Seal of solved solids concentration New Mexico Oil Conservaof the injection water is ap tion Commission at Santa Fe, proximately 24,000 mg/I. The New Mexico, on this 5th of total dissolved solids concen-February, 1996.

tration of the formation flu-STATE OF NEW MEXICO ids is approximately 14,000 OIL CONSERVATION DIVImg/l. The discharge plan ad-SION dress construction, opera-WILLIAM J. LEMAY, Direction and monitoring of the tor

well and associated surface egal #59060 facilities and provides a con-Pub. February 9, 1996

NOTICE OF PUBLICATION fingency plan in the event of accidental spills, leaks and other accidental discharges to the ground surface. Ground water most likely to be affected by any accidental discharge is at a depth from

78 to 90 feet and has a total dissolved solids concentra-STATE OF NEW MEXICO

tion has been submitted to from the On conservation by I, <u>BETSY PERNER</u> being first duly sworn declare and servation Division, 2040 ten comments to the Director say that I am Legal Advertising Representative of THE SANTA South Pacheco, Santa Fe, of the Oil Conservation Divis given FE NEW MEXICAN, a daily news paper published in the English above. The discharge plan language, and having a general circulation in the Counties of (GW-235) - Coleman Oil and the above address between Santa Fe and Los Alamos, State of New Mexico and being a News-Gas, Inc., Mr. Chuck Bads- 8:00 a.m. and 4:00 p.m., Mon-gard, P.O. Box 443, Farming- day through Friday. Prior to paper dúly gualified to publish legal notices and advertisegard, P.O. Box 443, Farming- day intrody relidy and the provisions of Chapter 167 on Session Laws of submitted a discharge plan charge plan or its modification in the publication is a copy of which is application to reclassify tion, the Director of the oil 1937; that the publication # 59060 a copy of which is their permitted Class [] disconservation Division shall here to attached was published in said newspaper once each posal well located in Section allow at least thirty (30) days 2. Township 29 North, Range after the date of publication week for ______ consecutive week(s) and that the in 12 West, NMPM, San Juan of this notice during which tice was published in the newspaper proper and not in any County, New Mexico to a comments may be submitted for one consecutive week(s) and that the no-Class I non-hazardous dis to him and a public hearing Supplement; the first publication being on the 9th day of 1996 and that the undersigned has personal

AFFIDAVIT OF PUBLICATION

uid waste classified as ex for a public hearing shall set knowledge of the matter and things set forth in this affida-empt from Resource Conser forth the reasons why a hear vit.

LEGAL ADVERTISEMENT REPRF

feet. The discharge plan ap if no public hearing is held. Subscribed and sworn to before me on this plication proposes to reclas, the Director will approve or sity the category of the well disapprove the proposed 9th ______ day of ______ FEBRUARY ______ A.D., 1996

OFFICIAL SEAL Candace C. Ruiz NOTARY PUBLIC - STATE OF NEW MEXICO P.O. Box 2048 Santa Fe. New Mexico 87501

505~983~3303 • (FAX)505~984~1785

STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

February 7, 1996

CERTIFIED MAIL RETURN RECEIPT NO. Z-765-962-932

Mr. Chuck Badsgard Coleman Oil and Gas, Inc. c/o Sunco Trucking Company P.O. Box 443 Farmington, New Mexico 87499

RE: Authorization to Discharge Without an Approved Discharge Plan Coleman Oil and Gas, Inc. Sunco Disposal Well No. 1 Unit Letter E, Sec. 2, Twn 29 N, Rng 12 W Sunco Disposal Facility San Juan County, New Mexico

Dear Mr. Badsgard:

The New Mexico Oil Conservation Division (OCD) has received the Coleman Oil and Gas, Inc. (Coleman) request, dated February 1, 1996, for authorization to dispose of non hazardous and exempt fluids by injection without an approved discharge plan. The authorization is requested for the time period during review of the discharge plan application for the reclassification of the permitted Class II disposal well to a Class I disposal well for the above referenced facility.

Pursuant to New Mexico Water Quality Control Commission Regulation 3106, and for good cause shown, authorization to discharge without an approved discharge plan is hereby granted until June 7, 1996 with the following conditions:

- 1) <u>Maximum Injection Pressure:</u> The maximum operating pressure at the wellhead will be 2,850 psi in accordance with OCD Order SWD-457. A minimum of 100 psi will be maintained on the casing-tubing annulus.
- 2) <u>Continuous Monitoring:</u> Continuous monitoring and recording devices will be installed and records made of injection pressure, flow rate, flow volume, and annular pressure. Records are to be maintained at Coleman for a period of not less than five years.

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Mr. Chuck Badsgard February 7, 1996 Page 2

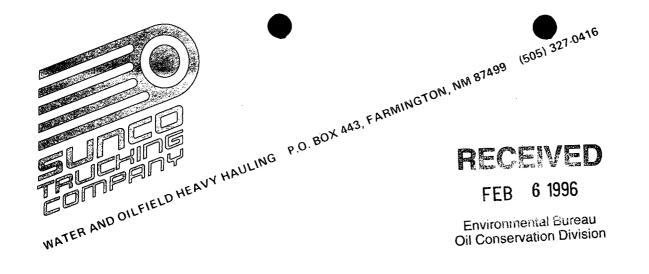
3) <u>Wastes Permitted for Injection</u>: Injection will be limited to fluids as permitted under OCD Order SWD-457, and a one time injection of the non-exempt fluids accepted by Giant Refining Company-Bloomfield. No other Class I non-exempt fluids will be accepted for injection unless a discharge plan reclassifying the Class II well to a Class I well is approved by the OCD.

Please be advised this authorization does not relieve Coleman of liability should operations result in pollution of surface waters, ground waters or the environment.

If you have any questions, please call Roger Anderson at (505) 827-7152.

Sincerely, 0 0 William J. LeMay Director WJL/mwa

xc: OCD Aztec Office



Environmental Bureau Oil Conservation Division 2040 S. Pacheco Santa Fe, New Mexico 87505 Fax# 505-827-8177 Febuary 1, 1996

Attn: William LaMay

Reference: Reclassification of disposal well status from Class II Commercial Facility to a Class I Commercial Disposal Facility.

Dear Sir,

Sunco Trucking is requesting a change of operational status at our existing water disposal facility from Class II to Class I Commercial to provide extended service to the San Juan Oil and Gas Industry. There is an urgent need and have been numerous requests by our industry to accept Non-Exempt, Non-Hazardous waste. The acceptance of this proposal would lighten the current burdens of our industry and provide proper management of such waste.

Sunco would also like to request a 120 day extention to inject fluids during this status change application process. The following is a list of the necessary technical information:

Owner- Sunco Trucking 708 S. Tucker	Evaporation Pond TDS- 23,610 MG/L
Farmington NM 87401	Evaporation Pond TSS-
Location- Section 2, Township 29N, Range 12W	78.8 MG/L
Depth to Ground Water- 78-90'	Disposal Well Injection Rate- 2000 BPD
Ground Water Formation- Blue Shale Gravel	Disposal Well Injection Pressure- 1800 PSI
Estimated Groung Water TDS- 450 MG/L	

Sunco Information Continued-

Depth of Perforation- 4380' to 4480'

Injection Zone- Point Lookout Formation

We would like to express our appreciation for your current co-operation in this matter and please call for any additional information needed in expediting this application.

Thank You,

uch Duck

Chuck Badsgard Vice- President- Sunco Trucking Company

February 6, 1996

NEW MEXICAN 202 E. Marcy Santa Fe, New Mexico 87501

RE: NOTICE OF PUBLICATION

PO #96-199-002997

ATTN: BETSY PERNER

Dear Sir/Madam:

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

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

1. Publisher's affidavit.

2. Invoices for prompt payment.

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

Please publish the notice on Friday, February 9, 1996, 22

Sincerely,

Administrative Secretary

Attachment

OFFICE OF THE SECRETARY - P. O. BOX 6429 - SANTA FE, NM 87505-6429 - (505) 827-5950 ADMINISTRATIVE SERVICES DIVISION - P. O. BOX 6429 - SANTA FE, NM 87505-6429 - (505) 827-5925 ENERGY CONSERVATION AND MANAGEMENT DIVISION - P. O. BOX 6429 - SANTA FE, NM 87505-6429 - (505) 827-5930 FORESTRY AND RESOURCES CONSERVATION DIVISION - P. O. BOX 1948 - SANTA FE, NM 87505-6429 - (505) 827-5830 MINING AND MINERALS DIVISION - P. O. BOX 6429 - SANTA FE, NM 87505-6429 - (505) 827-5870 OIL CONSERVATION DIVISION - P. O. BOX 6429 - SANTA FE, NM 87505-6429 - (505) 827-7830 PARK AND RECREATION DIVISION - P. O. BOX 6429 - SANTA FE, NM 87505-6429 - (505) 827-7131 PARK AND RECREATION DIVISION - P. O. BOX 147 - SANTA FE, NM 87505-6429 - (505) 827-7465 ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

mark

Santa Fe, New Mexico 87505



Nui Husisa DRUG FREE Hisa State of Hindi

February 6, 1996

FARMINGTON DAILY TIMES P. O. Box 450 Farmington, New Mexico 87401 **RE: NOTICE OF PUBLICATION**

ATTN: ADVERTISING MANAGER

Dear Sir/Madam:

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

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

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

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

Please publish the notice no later than _______ February 13, 1996, _____

Sincerely,

Administrative Secretary

Attachment

VILLAGRA BUILDING - 408 Galisteo

Forestry and Resources Conservation Division P.O. Box 1948 87504-1948 827-5830 Park and Recreation Division P.O. Box 1147 87504-1147 827-7485 2040 South Pacheco

Office of the Secretary 827-5950

Administrative Services 827-5925

Energy Conservation & Management 827-5900 Mining and Minerals 827-5970

> Oil Conservation 827-7131



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

(GW-235) - Coleman Oil and Gas, Inc., Mr. Chuck Badsgard, P.O. Box 443, Farmington. New Mexico, 87499 has submitted a discharge plan application to reclassify their permitted Class II disposal well located in Section 2, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico to a Class I non-hazardous disposal well. Currently 2,000 barrels per day of oil field liquid waste classified as exempt from Resource Conservation and Recovery Act Subtitle III regulations are disposed of by injection into the Point Lookout Formation at a depth from 4,380 to 4,480 feet. The discharge plan application proposes to reclassify the category of the well to allow for the injection of an additional 800 barrels per day of oil field liquid waste that has been demonstrated to be "non-hazardous" by testing. A combined total of approximately 2,800 barrels per day will be disposed of by injection into the Point Lookout Formation. The total dissolved solids concentration of the injection water is approximately 24,000 mg/l. The total dissolved solids concentration of the formation fluids is approximately 14,000 mg/l. The discharge plan addresses construction, operation and monitoring of the well and associated surface facilities and provides a contingency plan in the event of accidental spills, leaks and other accidental discharges to the ground surface. Ground water most likely to be affected by any accidental discharge is at a depth from 78 to 90 feet and has a total dissolved solids concentration of approximately 450 mg/l.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and 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 based on information available. If a public hearing is held, the director will approve or disapprove the proposed plan based on information in the discharge plan application and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 5th day of February 1996.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION WILLIAM J. LEMAY, Director





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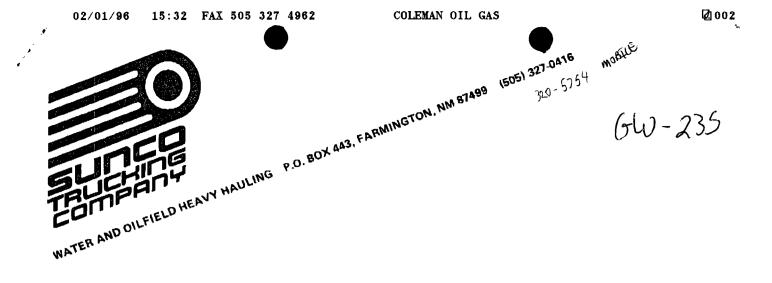
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STATE OF NEW MEXICO OIL CONSERVATION DIVISION WILLIAM J. LEMAY, Director



Environmental Bureau Oil Conservation Division 2040 S. Pacheco Santa Fe New Mexico, 87505 Fax# 505-827-8177

Attn: William LaMay

Reference: Reclassification of disposal well status from Class II Commercial Facility to a Class I Commercial Disposal Facility.

Febuary 1, 1996

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-·	

Sunco Information Continued-

Depth of Perforation- 4380' to 4480'

Injection Zone- Point Lookout Formation 13,895 105.

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Thank You,

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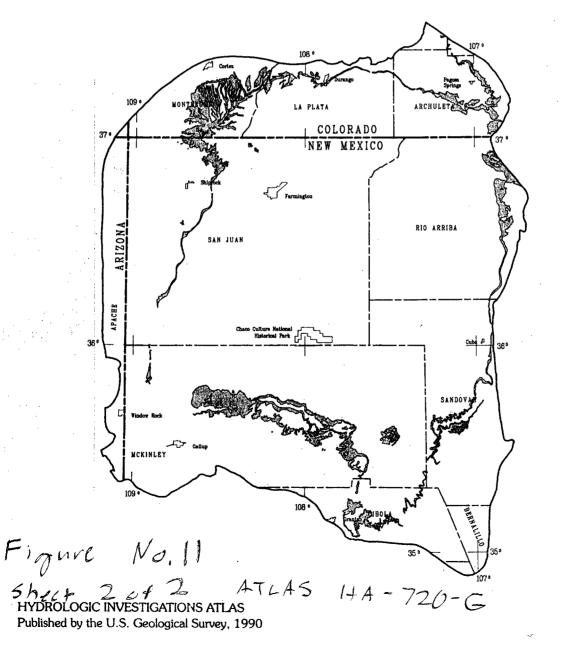
Chuck Badsgard \ Vice- President- Sunco Trucking Company

DEPARTMENT OF THE INTERIOR U. S. GEOLOGICAL SURVEY

HYDROGEOLOGY OF THE POINT LOOKOUT SANDSTONE IN THE SAN JUAN STRUCTURAL BASIN, NEW MEXICO, COLORADO, ARIZONA, AND UTAH

By Steven D. Craigg, William L. Dam, John Michael Kernodle, Conde[°] R. Thorn, and Gary W. Levings

A contribution of the REGIONAL AQUIFER-SYSTEM ANALYSIS PROGRAM



ATLAS HA-720-G

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

1-24-96 Time 3:30 PM Date Telephone Personal Other Parties Originating Party Pat Sanchez - OLD Mr. Shelton - Giant Subject Class I well workever - Back flow Giant water. Discussion Mr. Shelton called to inform OUD Santa Fr Giant had shipped Class nater Hou+ backflow Sunco Disposal the A CLASS facil Shipment of the workever and Nr. time and his consultant Mr. Pay Thompson d:d nct Sunco could Know that net take exempt class I fluids. Mr. Shelton dues not want ナツ Sunco since they thought involve Then W eve from an taking wastes oduled ter. Conclusions or Agreements will Rance Shelton be in touch with Morning. the Anderson 10 Giant, RCA, MA, CE, Signed <u>Distribution</u> iin 1 File.



MEMORANDUM OF MEETING OR CONVERSATION

4:25 pm Time 1-24-96 Date X Telephone Personal Other Parties Originating Party Pnt Sanchet-Chuck OCD Sunco Budsgard -Subject Water from Giant hauld Class I to well Sunco vell. Class II Discussion Talked Badsgard Mr. water the to about Sunco from the Class +0 hauld Giant \mathbb{T} Class explained wel Frdpra Der regulations Class 4 vell • field taKe GLCIP LIASS GNC nha though Wastes. HMAL Drodu inar attu NOK ら flow black is 41 Gt. who Shelton. Mr. +0/1 him I nn -anc onclusions or Agreements Badsgard Andersin wil 204 CGI +lMarning. RCA, CE, MA, File. <u>Distribution</u> Signed