

Key Energy Services, Inc.

Four Corners Division P.O. Box 900 5651 US Highway 64 Farmington, NM 87499

Phone: 505-327-4935 Fax: 505-327-4962

April 19, 2001

Wayne Price NMOCD 1220 S. St. Francis Drive Sarta Fe, New Mexico 87504



RE: Application for renewal of Key Energy Services Injection Well Discharge Plan UIC-CLI-005

Dear Mr. Price

Please find attached Application, Documentation and Filing Fee for renewal of our Discharge Plan.

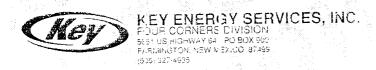
If you require additional information, please contact me at the Office 505-334-6416 or the Facility at 505-334-6186.

Sincerely,
Unland Tall

M chael Talovich Facility Manager

Key Energy Services

cc: Mr. Hal Stone Key Energy



ORDER OF NM ENRGY MNRLS & NAT RESC DEPT OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DRIVE SANTA FE NM 87504

PNC BANK, NATIONAL ASSOCIATION

JEANNETTE PA

No. 141398

Check Date 4/19/2001

PAY One Hundred Dollars and No Cent

Tow TEllabaum

AUTHORIZED SIGNATURE IF OVER \$10,000,00

#141398# #043301827# 1004418783#

District I 1625 N. French Dr., Hobbs, XM 88240 District II 814 South First, Artesia, XM 88210 District III 1000 Rio Brazos Road, Aztec, XM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 8 '505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit Onemal Plus I Čopy to Santa ve I Copy to Appropriate District Office

Revised January 24, 2001

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

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

	(Refer to the OCD Guidennes for assistance in completing the approximate)
	☐ New
	spor Refer to ment Page
2. O	perator:
Æ.	.ddress:
('ontact Person' Phone:Phone:
3. L	ocation:/4/4 SectionTownshipRange
4. 3	Attach the name, telephone number and address of the landowner of the facility site.
	Attach the description of the facility with a diagram indicating location of fences, pits, dikes and tanks on the facility
	Attach a description of all materials stored or used at the facility.
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.
()	Attach a description of proposed modifications to existing collection/treatment/disposal systems.
10.	Attach a routine inspection and maintenance plan to ensure permit compliance.
11.	Attach a contingency plan for reporting and clean-up of spills or releases
12.	Attach geological/hydrological information for the facility. Depth to and quality of ground water must be included
13.	Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.
	14. CERTIFICATION hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	Name Michael Talovica Title: 4-18-2001 Signature Mr. G. D. Date manager
	Signature Mills of Tal Date manager

- 1. Discharge Plan for Key Energy Services Disposal Well
- 2. Key Energy Services Inc. P.O. Box 900 Farmington, New Mexico 87499 Michael Talovich, 505-334-6186
- 3. Unit E; Section 2; Township 29N; Range 12W
- 4. Key Energy Services Inc. 505-327-0416 P.O. Box 900 Farmington NM 37499
- 5. On file with NMOCD included with 711 Surface permit application NM-01-0009
- 6. N/A
- 7. See latest injection Well Quarterly Report (included)
- 8. Wastewater is pumped from the Evaporation Pond through an above ground pipelines which fills a tank located at the Injection pump area. The wastewater is then pulled from the tank and filtered and injected under pressure into the well Please find included copies of approved Discharge Plan UIC-CLI-005 and Permit Condition Amendment.
- 9. N/A
- 10. The Wastewater Disposal System is visually inspected at least 6 times per day, this includes: Unloading Area piping, Pond perimeter piping, Injection System feed pipeline, Injection System Tank and all piping related to Injection Pump and Well.

 All fluid is piped and stored above ground until fluid reaches the well.
 - All fluid is piped and stored above ground until fluid reaches the well bore. All Pump and Well pressures are recorded and kept at the Facility.

- 11. All spills will be reported pursuant to OCD Rule 116 including their cleanup in accordance of NMOCD guidelines.

 Key Energy maintains spill clean up equipment on site. This allows swift response to any spills or leaks that could occur at the Facility.
- 12.Please find and refer to included copy of original Application for Disposal Well Modification from Class II to Class I.
- 13. See State of New Mexico One -Well Plugging Bond U 2723755 The remainder of the Facility will be closed under 711 Closure Guidelines as required by permit.



January 24, 2001 Fourth Quarter

Mortyne J. Kielin I Environmental Geologist New Mexico OCD 1220 S. St. Francis Dr. Sarta Fc. New Maxico 87504

De inv Foust Emuronmental Geologist New Mexico OCD Jonn Rio Brazos Road Auted, New Mexico 87410

RE: Key Energ Quarterly Injection Well Report

Dear Martyne.

Please find attached our quarterly Injection Well Report for Key Disposal The following explanation is needed concerning Flow Rate and Annular Pressures:

On Flow Rates the average was based on a 16 hour day - days of the month. Also there were some days when there was little pump activity.

On Annular Pressures, the non-continuous pump activity had severely effected the backside pressures So on a letter deted March 20, 1997 NMOCD granted. Key (formally Sunco) a permit amendment pertaining to the annulus. This change in the permit is reflected in this quarter's report.

The Injection Viater Analysis is also provided. If you require additional information, please contact me at the Office 334-5416 or the Facility at 334-6186.

رے ہ - Best Regards: Carle Tale

Michael Taloy ch Disposal Manager Key Energy Services

ect Mr. Stone Mr. Foust

US Postal Service Receipt for Certified Mail No Insurance Coverage Provided. Do not use for International Mail (See reverse) MONY NO (1270 5 Post Office, State, & ZIP Code Santa Se Postage Certified Fee Special Delivery Fee Restricted Delivery Fee Return Receipt Showing to Whom & Date Delivered Return Receipt Showing to ...

Addressee's Address

Addressee's Address Return Receipt Showing to Whom, TOTAL Postage & Postmank or Date TOTAL Postage & Fees

50

KEY ENERGY DISPOSAL P.O. BOX 900 FARMINGTON, N.M. 87499

MONTHLY INJECTION WELL REPORT

CERTIFICATION	OCT DEC	JUL AUG SEP	MAY JUN	JAN FEB MAR		PERIOD 2000
CATION	2180 2180 2180 2180	2160 2160 2180	2160 2160 2160	2100 2080 2130	MAX (PSI)	INJECTIO
iliciae	1920 1920 1920	1860 1860 1920	1720 1860 1860	8 8 8 8 6 6 6	AIN (PSJ)	INJECTION PRESSURES
30	2050 2050 2050	2040 2040 2050	2040 2040 2040	1980 1970 1995	VG (PSI)	SURES
clin's	3,058 3,076 3,159	2,960 2,749 2,890	3,040 2,487 2,942	3,050 2,935 2,847	MAX (bbls)	
	1,457 0 0	1,368 1,055 700	1,219 0 741	987 1,044 1,005	MIN (bbls)	FLOW RATES
	2,357 2,150 2,661	1,857 1,936 1,902	2,416 1,467 2,077	2,467 2,202 2,214	AVG (bbls)	S
DATE	73,069 62,366 79,857	57,561 60,028 57,064	72,468 45,466 62,298	76,491 63,868 68,633	MAX (PSI) MIN (PSJ) AVG (PSI) MAX (bbls) MIN (bbls) AVG (bbls) MONTH(bbls)	ا ۱۵۲۵.
1-24-6001	630,946 4,705,502 693,312 4,767,862 773,169 4,847,719	446,785 4,515,341 500,81 4,575,369 557,877 4,632,433	281,460 4,350,016 326,926 4,395,482 389,224 4,457,780	76,491 4,145,197 140,359 4,209,065 208,992 4,277,698	"YTD (bbls) LIFE OF WELL	FLOW VOLUMES/DAY
	000	000	000	000	MAX (PSI) MI	ANNULA
	000	000	000	000	N (PSI) AV	R PRESS
·	0.00	0 0 0	000	000	G (PSI) VO	URES CL
	6,640 3,720 6,320	480 2,520 1,200	10,400 6,480 2,520	6,160 7,840 11,520	OF WELL MAX (PSI) MIN (PSI) AVG (PSI) VOLUMES IN BARRELS	'ANNULAR PRESSURES CLASS 1 NON-HAZ



January 24, 2001

Mr. Mike Talovich Key Energy Service, Inc. F.O. Box 9(0) Farmington NM 87499

Client No.: 98065-001 Job No.: 806501

Phone: (505) 327-0416

Dear Mr. Talovich.

Einclosed are the analytical results for the sample collected from the location clesignated as "Injection Well". One water sample was collected by Key Energy Service designated personnel on 1/16/01, and received by the Envirotech laboratory on 1/16/01. TCLP W/O Herbicides and Pesticides.

The sample was documented on Envirotech Chain of Custody No. 8467. The sample was assigned Laboratory No. 19099 (Injection Well) for tracking purposes.

The sample was analyzed 1/17/01 through 1/23/01 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted, Envirotech, Inc.

Christine M. Walters

Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/key.wpd



SUSPECTED HAZARDOUS WASTE ANALYSIS

Client: Sample ID: Key Energy Services

Project #:
Date Reported:

98065-001 01-22-01

Sample ID:
Lab ID#:
Sample Matrix:
Preservative:

Condition:

Injection Well 19099 Water Cool Cool and Intact

Date Reported:
Date Sampled: ____
Date Received:
Date Analyzed:
Chain of Custody:

01-22-01 01-16-01 01-16-01 01-17-01 8467

Parame::er

Result

IGNITABILITY:

Negative

CORRCSIVITY:

Negative

pH = 8.45

REACT VITY:

Negative

RCRA Hazardous Waste Criteria

Parameter

Hazardous Waste Criterion

IGNITABILITY:

Characteristic of Ignitability as defined by 40 CFR. Subpart C. Sec. 261.21. (i.e. Sample ignition upon direct contact with flame or flash point < 60° C.

CORROSIVITY:

Characteristic of Corrosivity as defined by 40 CFR. Suppart C. Sec. 261.22.

(i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5.)

REACTIVITY:

Characteristic of Reactivity as defined by 40 CFR. Suppart C. Sec. 261.23. (i.e. Violent reaction with water, strong base, strong acid, or the generation of Sulfide or Cyanide gases at STP with pri between 2.0 and 12.5)

Reference:

40 CFR part 261 Subpart C sections 261.21 - 261.23. July 1, 1992.

Comments:

Injection Well.

Analyst

Review



EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Key Energy Services	Project #:	98065-001
Sample ID:	Injection Well	Date Reported:	01-23-01
Laboratory Numbe :	19099	Date Sampled:	01-16-01
Chain of Custody:	8467	Date Received:	01-16-01
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	01-22-01
Condition:	Cool & Intact	Analysis Requested:	TCLP

e e	•	Detection	Regulatory
**	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroet tene	ND	0.0001	0.7
2-Butanone (NEK)	0.180	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001 _	0.5
Benzene	0.263	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND -	- 0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

NE - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery
		Trifluorotoluene Bromofluorobenzene	98% 99%
Method 5030, Purge-and- Method 8010, Halogenate		haracteristic Leaching Procedure. SW- d-Trap. SW-846. USEPA, July 1992. ted Volatile Organic, SW-846. USEPA, Volatile Organics. SW-846, USEPA, Se	. Sept. 1994.
Note:	Regulatory Limits based	on 40 CFR part 261 Subpart C section	n 261.24, July 1, 1992.
Comments:	Injection Well.		

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EPA METHOD 8040 PHENOLS

Client:	Key Energy Services	Project #:		98065-001
Sample ID:	Injection Well	Date Reported:		01-23-01
Laboratory Number:	19099	Date Sampled:		01-16-01
Chain of Custody:	8467	Date Received:		01-16-01
Sample Matrix:	Water	Date Extracted:		N/A
Preservative:	Cool	Date Analyzed:		01-23-01
Condition:	Cool & Intact	Analysis Requested:	-	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorcphenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction. Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: Injection Well.

t Review



EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics

Client:	Key Energy Services	Project #:	98065-001
Sample ID:	Injection Well	Date Reported:	01-23-01
Laboratory Number:	19099	Date Sampled:	~ 01 - 16-01 ~ `
Chair of Custody:	8 40 7	Date Received:	01-16-01
Sample Matrix:	Water	Date Extracted:	N/A ~
Preservative:	Cool	Date Analyzed:	01-23-01
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	0.059	0.020	2.0
Hexachlorobutadiene	ND	0.020 -	0.5
2,4-Dinitrotoluene	0.043	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery
		2-fluorobiphenyl	95%
References:	Method 3510, Separato	Characteristic Leaching Procedure. ry Funnel Liquid-Liquid Extraction. natics and Cyclic Ketones. SW-846	SW-846, USEPA, July 1992.
Note: Regulatory Limits based on 40 CFR part 261 Subpa			ction 261.24, July 1, 1992.

Comments: Injection Well.

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EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Key Energy Services	Project #:	98065-001
Sample ID:	Injection Well	Date Reported:	01-22-01
Latioratory Number:	19099	Date Sampled:	- <u>0</u> 1-16-01
Chain of Custody:	8467	Date Received:	01-16-01
Sample Matrix:	Water *	Date Analyzed:	01-19-01
Preservative:	Cool	Date Extracted:	– N/A
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	ND	0.001	5.0
Barium	1.06	0.001	100
Cadmium	ND	0.001	1.0
Chromium	0.012	0.001	5.0
Lead	0.033	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	ND	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA.

December 1996.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total

Metals, SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupied Plasma-Atomic Emission

SW-846, USEPA. December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments: Injection Well.

Rev



QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION



EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

Client:	QA/QC	Project ∓:	N/A
Sample ID:	Laboratory Blank	Date Reported:	01-23-01
Laboratory Number	01-22-TCV	Date Sampled:	. <u></u> N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A N/A
Preservative:	N/A ~	Date Analyzed:	01-22-01
Condition:	N/A	Analysis Requested:_	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Řegulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetract loride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethen:	ND	0.0003	0.5
Tetrachloroeth ane	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter nc: detected at the stated detection limit.

QA/QC Accep	tance Criteria	Parameter	Percent Recovery
		Trifluorotoluene Bromofluorobenzene	100% 100%
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Jul Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992. Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.		Sept. 1994.	
Note:	Regulatory Limits based on	40 CFR part 261 Subpart C section	n 261.24. July 1, 1992.
Comments:	QA/QC for sample 19	099.	



EPA METHODS 8010/8020 AROMATIC / HALOGENATED **VOLATILE ORGANICS QUALITY ASSURANCE REPORT**

Review M.

Client:	QA.QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	01-23-01
Laboratory Number:	<u> 1909</u> 9	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Analys's Requested:	TCLP	Date Analyzed:	01-22-61
Condition:	N/A	Date Extracted:	N/A

	•	Duplicate		=
	Sample	Sample	Detection	
	Result	Result	Limits	Percent
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.180	0.182	0.0001	1.5%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.263	0.260	0.0001	1.1%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND T	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

en L. Cipin

Method 1311. Toxicity Characteristic Leaching Procedure. SW-846. USEPA. July 1992. References:

Method 5030. Purge-and-Trap. SW-846, USEPA, July 1992.

Method 8010, Haiogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments: QA/QC for sample 19099.



EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	. 01-23-01
Laboratory Number:	19099	Date Sampled:	N/A
Sample Matrix:	Water -	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-22-01
Conclition:	N/A	Date Extracted:	,N/A

Parameter	Sample Result (mg/L)	Spike Added (mg/L)	Spiked Sample Result (mg/L)	Det. Limit (mg/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	0.180	0.050	0.229	0.0001	100%	47-132
Chloroform	ND	0.050	0.0500	0.0001	100%	49-133
Carbon Tetrac iloride	ND	0.050	0.0490	0.0001	98%	43-143
Berizene	0.263	0.050	0.313	0.0001	100%	39-150
1,2-Dichloroethane	ND	0.050	0.0490	0.0001	98%	51-147
Trichloroethene	ND	0.050	0.0495	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0495	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0495	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0495	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

en L. African

References:

Method 1311, Toxicity Characteristic Leaching Procedure, \$33-846, USEP4, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEF4, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEFA, Sept. 1994.

Comments:

QA/QC for sample 19099.

Principal And Control Review



EPA METHOD 8040 PHENOLS Quality Assurance Report Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	01-23-01
Laboratory Number:	01-23-TCA	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-23-01
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results	,	Detection	Regulatory
Parameter	Concentration (mg/L)	Limit (mg/L)	Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorop ienol	ND	0.020	2.0
2,4,5-Trichloropnenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-fluorophenol	98 %
	2,4,6-tribromophenol	99 %

References:

Method 1311. Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510. Separatory Funnel Liquid-Liquid Extraction. Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Soild Waste, SW-246, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24. July 1, 1992.

Comments:

QA/QC for sample 19099.

Alem L. Caleman

eview



EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	01-23-01
Laboratory Number:	01-22-TCA	Date Sampled:	N/A
Sample Matrix:	Water -	Date Received:	N/A
Preservative:	Cool	Date Extracted: _	N/A
Condition:	Cool & Intact	Date Analyzed:	.01-23-01
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol —	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery	
	2-Fluorophenol	98%	
	2,4,6-Tribromophenol	99%	

References:

Method 1311. Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction. Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sect. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24. July 1, 1992.

Comments:

QA/QC for sample 19099.

Alent. Offense



EPA METHOD 8040 PHENOLS Quality Assurance Report

Clien::	- LQA/QC		Project #:	N/A
Sample ID:	Matrix Duplicate		Date Reported:	01-23-01
Laboratory Number	19099		Date Sampled:	N/A -
Sample Matrix:	Water		Date Received:	N/A
Preservative:	Cool	•	Date Extracted:	N/A
Concition:	Cool & Intact		Date Analyzed:	01-23-01
			Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Detection Limit (mg/L)	Percent Difference
o-Cresol -	ND	ND	- 0.020	0.0%
p,m-Cresol	ND	ND	0.040	0.0%
2,4,3-Trichlorophenol	ND	ND	0.020	0.0%
2,4.5-Trichloro shenol	ND	ND	0.020	0.0%
Pentachloroph∍nol	ND	ND	0.020	0.0%

ND - Parameter no: detected at the stated detection limit.

QA/QC Acceptance Criteria:

Parameter

Maximum Difference

8040 Compounds

30.0%

References:

Method 1311. Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510. Separatory Funnel Liquid-Liquid Extraction. Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 19099.

Analyst

Review



EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics Quality Assurance Report

Client:		Project #:	. N/A
Sample ID:	Laboratory Blank	Date Reported:	01-23-01
Laboratory Number:	01-23 - TBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received: _	N/A
Preservative:	N/A	Date Extracted:	. N/A
Condition:	N/A	Date Analyzed: 🕝	01-23-01
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020 ^	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery	
	2-fluorobiphenyl	98%	

References: Method 1311, Toxicity Characteristic Leadning Procedure, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-346, USEPA, Sept. 1986.

Note Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample 19099.

allen L. Oylenn

Review 127 - Cocless Review



EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	- Method Blank	Date Reported:	01-23-01
Laboratory Number:	01-22-TBN	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool and Intact	Date Analyzed:	01-23-01
.*	r.	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBer zene	ND	0.020	0.13

ND - Parameter no: detected at the stated detection limit.

QA.'QC Accept	ance Criteria	Parameter	Percent Recovery
		2-fluorobiphenyl	98%
References:	Method 1311, Toxicity Charac Method 3510, Separatory Fun Method 8090, Nitroaromatics	nel Liquid-Liquid Extraction, S	W-846, USEPA, July 1992.
Note:	Regulatory Limits based on 40) CFR part 261 Subpart C sec	tion 261.24, July 1, 1992.

Comments: QA/QC for sample 19099.

Dêur E. Gileur Review



EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QA/QC Matrix Duplicate Report

Client:	QAQC	Project ≠:		N/A
Sample ID:	Matrix Duplicate	Date Reported:		
Laboratory Number:	19099	Date Sampled:		N/A
Sample Matrix:	Water	Date Received:		N/A
Preservative:	N/A	Date Extracted:		N/A
Condition:	N/A	- Date Analyzed:		01-23-01
		Analysis Requested:	•	TCLP

Para neter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (mg/L)
	,	\ J /		(***3**=)
Pyridine	ND	ND	0.0%	0.020
Hexachloroethane	ND	ND	0.0%	0.020
Nitrobenzene	0.059	0.058	0.9%	0.020
Hexachlorobutadiene	ND	ND	0.0%	0.020
2,4-Dinitrotolue 1e	0.043	0.043	0.0%	0.020
HexachloroBenzene	ND	ND	0.0%	0.020

ND - Parameter not detected at the stated detection limit.

\cap	Un	~	Accou	stance	Criteria
ω	V 🗤		ALLER	JIANGE	Cillella

Parameter

Maximum Difference

8090 Compounds

30%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992. Method 8090, Nitroarcmatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261,24, July 1, 1992.

Corriments:

QA/QC for sample 19099.



EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS Quality Assurance Report

Client: Sample ID: Laboratory Number: Sample Matrix: Analysis Requested: Condition:	e design	QA/QC 01-19-TCM 19099 Water TCLP Metal N/A		Project #: Date Report Date Sample Date Receiv Date Analyz Date Extract	ed: ed: ed:	**.	N/A 01-22-01 N/A N/A 01-19-01 N/A
Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Barium	ND	ND	0.001	1.06	1.05	0.9%	0% - 30%
Cadmium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.012	0.012	0.0%	0% - 30%
Lead	ND	ND	0.001	0.033	0.033	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	ND =	ND	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Spike		Spike	Sample	Spiked	Percent		Acceptance
Conc. (mg/L)		Added		Sample	Recovery		Range
Arsenic		0.500	ND	0.498	99.6%		80% - 120%
Barium		0.500	1.06	1.55	99.4%		80% - 120%
Cadmium		0.500	ND	0.499	99.8%		80% - 120%
Chromium		0.500	0.012	0.51	99.8%		80% - 120%
Lead		0.500	0.033	0.53	99.8%		80% - 120%
Mercury		0.050	ND	0.049	98.0%		80% - 120%
Selenium		0.500	ND	0.497	99.4%		80% - 120%
Silver		0.500	ND	0.498	99.6%		80% - 120%

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020. Acid Digestion of Aqueous Samples and Extracts for Total Metals.

SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission.

SW-846, USEPA, December 1996.

Comments:

QA/QC for sample 19099.

Analyst

Review

CHAIN OF CUSTODY RECORD

Client / Project Name	Ĺ	Project Location	ocation	-			ANALY	ANALYSIS / PARAMETERS		
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STATE OF NEW MEXICO EN ERGY, 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 RECLIPT 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 D sposal 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 o l field waste disposal well located in unit letter E, Section 2, Township 29 North, Range 12 Wes, 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 plar 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.

Mr. George Colernan August 26, 1996 Page 2

The monitoring ard 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 ur der 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 plar, then the existing discharge plan will not expire until the application for renewal has been approved or disapproved.

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 cate 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. I

Director

WJL/mwa

Attachment

xc: OCD Aztee 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

- Payment of Discharge Plan Fees: 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.
- Mechanical Integrity Testing: 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. Annulus: 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. Maintenance Records: All routine maintenance work on the well will be recorded and maintaine I at Coleman for the life of the well.
- Wastes Permitted for Injection: 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. Atomatic 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 accordarce 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 impermable 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. Above Ground Tanks: All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new facilities 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. Above Ground Saddle Tanks: Above ground saddle tanks must have impermeable pad and curb type containment unless they contain fresh water or fluids that are gases at atmospheric temperature and pressure.
- 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 Crade Tanks/Sumps:</u> All below grade tanks, sumps, and pits must be approved by the OCI) 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 pot nds per square inch above normal operating pressure and/or visual inspection of cleaned out tanks and/or sumps.
- 18. <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.
- 19. Well Workover Operations: OCD approval will be obtained from the Director prior to perform ng 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 'he OCD Aztec District Office.

- 20. Housekeeping: 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. Spill Reporting: 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 or 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. Closure: 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. Plugging F ond and /or Letter of Credit: 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 p ugging bond and/or letter of credit shall be adjusted at the time of discharge plan renewal.
- Training: 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 Inst ections:</u> Additional requirements may be placed on the well and associated facilities based upon results from OCD inspections.

Mr. George Colemin August 26, 1996 Page 7

27. Certification: 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 Ol 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 Steen E Column Title President

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

March 20, 1997

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

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

RE: Discharg: 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 cordition 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 cf this letter.

Please be advised that the amendment of this plan does not relieve Coleman of liability should operations resul 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 Antec 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. Coleman Commitments: 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.
- Maximum Injection Pressure: 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.

- Mechanical Integrity Testing: 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.
- Annulus: 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 maintaine. 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. Wastes Permitted for Injection: Injection will be limited to fluids as permitted under OCD Order SW > 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 us ng atomic absorption (EPA methods 7060 and 7470).

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

- 9. Quarterly Reporting: The following reports will be signed and certified in accordance with WCCC 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 ard flow volume; and, annular pressure.
 - c. Monthly volumes of injected Class I non-exempt non-hazardous oil field waste (OCD Form C-138).
- 10. Monthly Reporting: 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 imper neable pad with curbing. All empty drums should be stored on their sides with the bung; 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.

- 12. Process A eas: 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.
- Above Ground Tanks: All above ground tanks which contain fluids other than fresh water must be be med 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. Above Ground Saddle Tanks: Above ground saddle tanks must have impermeable pad and curb type containment unless they contain fresh water or fluids that are gases at atmospheric temperature and pressure.
- 15. Labeling: 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. Below Grade Tanks/Sumps: All below grade tanks, sumps, and pits must be approved by the OCD prior to installation or upon modification and must incorporate secondary containment and leak-detection into the design. All pre-existing sumps and below-grade tanks must demonstrate integrity on an annual basis. Integrity tests include pressure testing to 3 poun is 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.
- Well Workover Operations: 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. Houseke ping: 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. Spill Reporting: 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. Transfer o Discharge Plan: 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. Closure: 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. Plugging Bond and /or Letter of Credit: 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 rene val.
- 24. Training: 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 documen ation shall be maintained at Coleman for the life of the well.
- 25. Certification: 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:	
COLEMAN OIL AND GAS, INC.	
by	

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

- 1. Coleman Commitments: 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. Maximum Injection Pressure: 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 the 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.

- Mechanical Integrity Testing: 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.
- Annulus: Until the facility operates 24 hours per day, the casing-tubing annulus will be complete y filled with an inert fluid and connected to a casing differential tank with the same iner: fluid to maintain a constant casing-tubing fluid level in the annulus at all times. A sight g ass 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. Continuous Monitoring and Recording: 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. Wastes Permitted for Injection: 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-hazar lous 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>Chemica Analysis of Injection Fluids:</u> The following analyses of injection fluids will be conducted on a quarterly basis:
 - a. A comatic 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, b: carbonate, 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. Quarterly Reporting: 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. Fesults 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. Monthly Reporting: 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 CCD Santa Fe Office.
- 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.

- 12. Process A:eas: 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. Above Ground Tanks: All above ground tanks which contain fluids other than fresh water must be be med 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. Above Ground Saddle Tanks: Above ground saddle tanks must have impermeable pad and curb type containment unless they contain fresh water or fluids that are gases at atmospheric temperature and pressure.
- 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. Below Grade Tanks/Sumps: All below grade tanks, sumps, and pits must be approved by the OCD prior to installation or upon modification and must incorporate secondary containment and leak-detection into the design. All pre-existing sumps and below-grade tanks must demonstrate integrity on an annual basis. Integrity tests include pressure testing to 3 poun is per square inch above normal operating pressure and/or visual inspection of cleaned out tanks and/or sumps.
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- 22. Closure: 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. Plugging Bond and /or Letter of Credit: 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. Training: 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.
- 25. Certification: 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 alministratively 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	



STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

September 8, 1997



<u>CERTIFIED MAIL</u> 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 5101.1.

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 ransferor'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 diarneter 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 Azte: Office

Mr. George E. Colman, Sunco Trucking Co. CER [IFIED MAIL RETURN RECEIPT NO. P-288-258-970]

Mr. Ron Fellabaum, Sunco Trucking Co./Key Four Corners, Inc. CERTIFIED MAIL RETURN RECEIPT NO. P-288-258-971

OIL CONSERVATION DIVISION PO BOX 2088 SANTA FE, NM 87504-2088

FORM C-108 Revised 7-1-81

APPLICATION FOR AUTHORIZATION TO INJECT

I. !	URPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage
	Application qualifies for administrative approval? XYes No
	PERATOR: Coleman Oil & Gas P.O. Box 443 Farmington, NM 87499
	MDKE33
	CONTACT PARTY: Chuck Badsgard PHONE: 327-0416
	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.	s this an expansion of an existing project: X Yes No f yes, give the Division order number authorizing the project #SWD-457
v.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
VII.	Attach data on the proposed operation, including:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produce I water; and If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
*VIII.	Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/1 or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
IX.	Describe the propose I stimulation program, if any.
* X.	resubmitted.)
* 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 d sposal 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 complete the "Proof of Notice" section on the reverse side of this form.
XIV.	Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	NAME: Chick Badsgard TITLE: Vice-President
	NAME: Chick Badsgard TITLE: Vice-President SIGNATURE: DATE: 5/4/96
	If the information equired 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.
576	DIRITION: Original and one copy to Santa Fe with one copy to the appropriate District Office
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III. WELL DATA

- A. The following well da a 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) Lesse 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 top was determined.
 - (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 injectior interval and whether it is perforated or open-hole.
 - (3) State if the vell was drilled for injection or, if not, the original purpose of the well.
 - Give the dep hs 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, ¿ddress, phone number, and contact party for the applicant;
- 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 2018, 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 cate this application was mailed to them.

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

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

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

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.

Andrew Marie Company - Service and the control of t

II. Operator

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

III. Well Data

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

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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.

NAME: Chuck BAOSGARD

TITLE: Vice - Yees is ent

SIGNATURE: Chul Backgard

DATE: 5/6/96

ATTACHMENTS

Exhibit A

Exhibit B #1

• Exhibit B #2

Exhibit C

Exhibit D

Exhibit E

Exhibit F

Exhibit G

Exhibit H

Exhibit I

Exhibit J

Exhibit K

Lass - 4 copies

OIL CONSERVATION DIVISI.

STRICT 1 .0. Box 1980, Hobbs, NM \$1240

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

DISTRICT II P.O. Drawer DD, Ariesia, NM \$1210

DISTRICT III 1000 Rio Brasos Rd., Aziec, NM 8741)

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

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Coleman Oil & Gas
Sur.co Well #1
Unit E, Section 2, T29N, R12W
San Juan County, New Mexico

DRIL<u>LING HISTORY</u>

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 btls 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. returns through job, circulated 25 bbls good cement to surface. Tool closed with 2500 psi and held good. Flug down 9:05 p.m. Set slips and cut off casing.

> Harold W. Elledge Petroleum Engineer

"EXHIBIT B #1"

Sunco Well #1 Pipe Tally Coleman Oil & Gas

5 1/2" 15.5# LT&C & ST&C Casing

2/2/92

		erny 1		l anakh	CUM	T+ I	aneth	CUM	Jt.	Length	CUM	Jt.	Length	CUM	Jt.	Length	CUM
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5	34.50	194.99			2093.15		k	2517.83	100	30.73	2071.00	205	29.44	4293.91	256		4863.90
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27		966.01				04 128			83 17			22 228	}	4768.	40 278	3	4863.90
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	cum1884			2516			251	7.83		411	4.26		476	8.40		486	3.90
	CURTOOA	• • • •				A. 1 .											

68 jts 2:13.35

float & shoe 2.69 Joints #1 thru #56 are LT&C, the rest are ST&C

dv tool 1.79 DV tool at 2244.17' KB
circ CPMENT 70 jts 2250.57' Anticipated PBTD 4717' KB

Tubing WELL PROFILE Liner Casing OPERATOR COLEMAN OIL + GAS CO. WELL # SUNGO WDW#1 27/2 SIZE 5/2 FIELD CROUCH MESA WEIGHT 15.5 6.5 COUNTY SAN JUAN **GRADE** STATE NEW MEXICO DATE 7/27/94 **EUE THREAD** WORKOVER ☐ NEW COMPLETION DEPTH 4706 4265 ITEM LENGTH DETTH **EQUIPMENT AND SERVICES** NO. KB 13.00 DONUT TYPE TUBING HANGER 76 2% EU PINX PIN NIPPLE . 46 2 % PLASTIC LINED PUP JOINT (3) 10, 15 27/8 PLASTIC LINED PUT JOINT 6.22 135 JTS 27/8 PLASTIC LINED TUBING 27/8 x 51/2" ARROW'T-2' PLASTIC COATED ON-OFF TOOL (MERS W) S. NIPPLE) 4281 27/8 x 1.87 STAINNESS STEEL NIPPLE ·W/ 1.87" 'F' PROFILE 2.688 x 5 1/3" ARROW J-LATCH ,90 3 FA J.688 BONDED SEAL UNITS 357 2.688 1/2 MUKESHOE BOTTOM 1.42 51/2 x 2.688 ARROW 'XL-W" RETRIENAGIE 4.68 4283 SEAL BORE PACKER 51/2 + 2.688 TUBING ADALTER BOTTOM 19 5.69 23/8 PLASTIC COATED PUT JOWT .87 23/8 x 1.78 STAINLESS STEEL NIPPLE 4289 U) 1.78" 'F' PROFILE 23/8 PLASTIC COATED PUP JOINT 6.10 4296 23/8 x 5'/2 W/L ENTRY GUIDE COLLAR ዛልዌን 9 4289 [4] COMMENTS: SEAL ASSY & TUBING WERE LANDED W/ 4000# TENSION T-2 ON-OFF TOOL IS LEFT HAND RELEASE J-LATCH SEAL ASSY IS RIGHT HAND RELEASE 61/2 " 15,5# PHONE OFFICE PREPARED BY CASING FARMINGTON, NM 505) 326-5141 B.J. WARBURTON 4006

KATALAKAN AND BAT OF ZA

MOUNTAIN STATES

"EXIBIT B #2 CONTINUED." PIPE RECORD

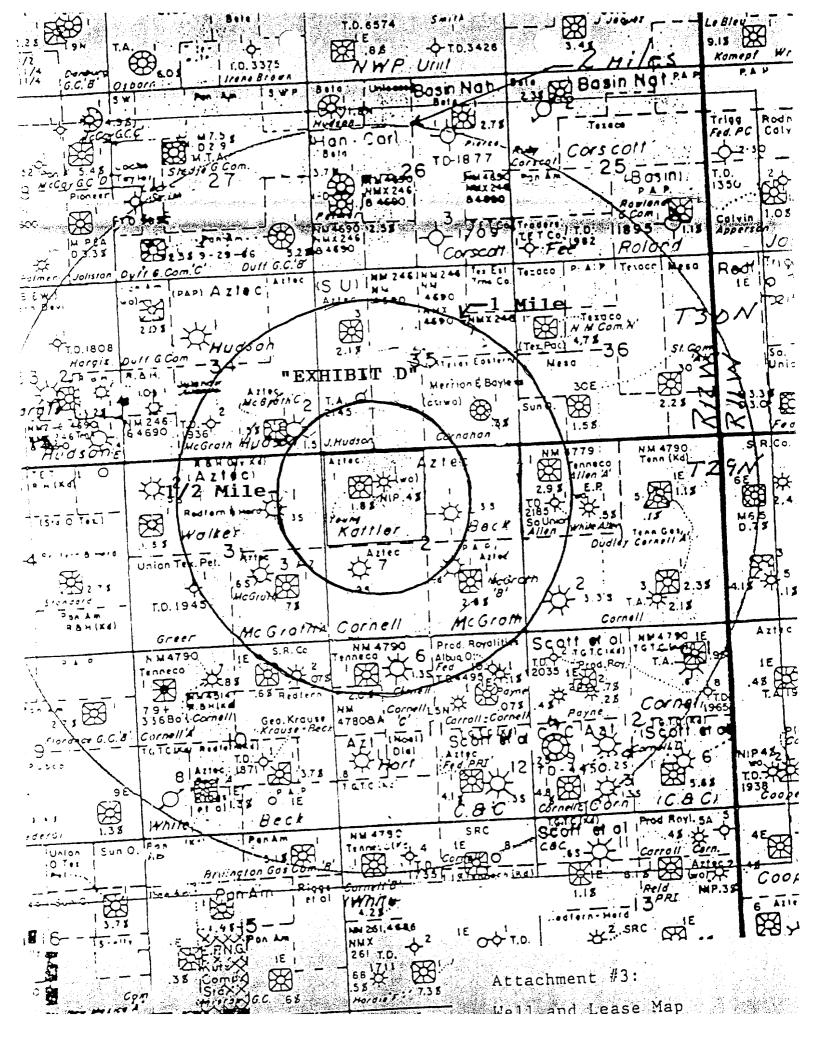
Coleman oil & GAS LEASE Sunco DISPOSAL WELLNO. 1- 7/28/1994 PIPE TALLY - Show every place of equipment going into the hole in the order run. **COLUMN 5 COLUMN 6 COLUMN 7** COLUMN 3 COLUMN 8 COLUMN 2 COLUMN 1 GRADE WT. GRADE GRADE GRADE GRADE. GRADE GRADE GRADE WT. THICK JOHT JOHT JOHIT THICK JOHNT FEET FEET FEET FEET FEET FEET -FEET. FEET NO. 90 5/69 27 10 10 特性的生產 绝洲的 * 1 大學是 10 W 130 W. 1. **建设** 1 100 Sept. 1 學 ta and being 4.40 S 8 ゎ Ü 5 9 $\overline{\mathbf{x}}$ 747 2,1 کم × ₩ | | 3 3 c Š αć w ১৯ E) 9 من 5 2 5/69 4/68 90 27 10 No. Jis. run Jts. left on rack after running Jts. on rack before running COLUMN GRADE CLASRIHT MAKE 0.0. WEXCHIE 271 NO. 53 23/2 Entry Guiss MM STATES 10 23/K/I Plastic inca Pup Join MIDU STATES 87 MTN STATES 23/4/ 69 MTOU STATES 2 "hi" MTN STATES 10 68 51h. Arrow Arrow XL-W RETTIENABLE 90 ا کارا" ب Accow جاجا 27/8" Arrow ON/OFF TOOL 'ASTERISK DESIGNATES CENTRALIZER ON JOINT TOTAL REMARKS 4280.93 ' KB - British @ 4290.92 KB JOINTS NOT RUN SPACE TOTAL TOP ROTARY DRIVE BUSHING TO TOP OF CASING HEAD FLANGE. (+) SET AT

PEXIBIT B #2 CONTINUF PIPE RECORD

Colengan oil GAS LEASE Sunco DISPOSOL WELL NO. 7/28 19" PIPE TALLY - Show every place of equipment going into the hole in the order run. COLUMN 2 COLUMN 3 COLUMN 4 **COLUMN 5** COLUMN 1 COLUMN 5 COLUMN 7 COLUMN 8 GRADE WT. GRADE GRADE GALDE WT. GRADE GRADE GRADE GRADE JOHN JOINT THICK DWG CHI FEET FEET FEET CHAT FEET FEET FEET FEET -FEET NO. 2955 64 30 62 25 46 TAX en but 1.4105 20 63 65 63 10 30 ک یا 12 63 90 l۱٥ 61 15 85 02 95 90 31 40 62 10 40 58 80 63 50 65/10 78 40 32 Ø 64 30 33 62 رو ی 60 184 53 ĥ 64 35 505/80 13 63 55 60 61 70 62 Mew PipE 29/97 95 35 52 X 61 90 41 62 50 Ò 15 1-05 63 198 15 54 七 6510 61 90 Ś S 80 45 0 63 170 61 62 Ā 90 31 50 05 15 188 97 30 61 10 46 76 1255 1259/03 1226 16 37 Jts, left on rack after running No. Jts. nm its, on rack before running COLUMN ITEM WEIGHT GRADE THREAD MAKE NO. 8-0 27/2 4.5 1226 81 61N5 J-53 SALTA 70 40 11 1 (SALTA 1255 1 (11 2 12.59 40 SALTA 03 $\mathbf{t}^{-1},$ 11 16 SALTA 505 80 ,, LP Joint 1 1 16 37 SALTA įΙ PINTPIN NIPPLE 46 MT. STATES 76 . "ASTERISK DESIGNATES CENTRALIZER ON YOUR & PAGE Z 48 TOTAL PALC 1 4286 REMARKS JOHNTS HOT FLAN THAT OUT 44 BAD Joins when TOTAL 4286 92 TOP ROTARY DRIVE BUSHING TO TOP OF CASING HEAD PLANGE 13 00 92 BOTTOM PACKER 深心的,心理是点 CO. REP. 1



MLSH	ENGINEERING & PRODUCTION CORP.	Patroleum Engineering Consulting Lease Management Contract Pumping	204 N. Aubum Farmington, New Mexico (505) 327-4992
	Suico Disposal	#GAS WELL #1	
	8 ⁵ /3", 24.0 ⁴ , X-55 SET AT 209"	•	
			4
	136 573 278, 6.5°, 555, 72ASTIC	PLIEN AT 4265" - CANTEN TOU SET AT 4495"	(ONE JOINT BELLI PACKER)
	2 59f 220 Tam4 Hours.		· · · · · · · · · · · · · · · · · · ·
	7875 - 4706		
	51/2", 15.5 #, K-55 SET AT 4760		



RECORD# API NUMBER UL

SEC TWN RGE

WELL NAME WELL # OPERATOR POOL TYPE DATE DEP

21216	21215	21214	21213	21212	21211	79	21	15	12	7		
30-045-25844	30-045-08946	30-045-08946	30-045-11770	30-045-08945	30-045-26141	35-045-13092	30-045-08712	30-045-08704	30-045-08839	30-045-26014	30-045-08851	
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G.	• • 3 • 5	35	35	34	34	1	03	02	02	01	01	
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Merrion	Merrion	Merrion	Meridian	Meridian	Amoco	Amoco	Meridian	Meridian	Meridian	Amoco	Amoco	
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	CO 7-23-84	ZAIZ-19-60	000	3-0-03	C8-/-I	12-0-01	10 6 61	10-0-01	12 2 61	9-12-05	4-25-6	ב ד ס

*The completion records are also attached.

EXHIBIT F

Calculated Area of Review by Hydreologic Equation

and the control of th

**Calculated Area of Review is 1632'





ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



"Exhibit G"

BRUCE KING__ GOVERNOR

ANITA LOCKWOOD

December 22, 1993

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 15051827-5800

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

cc:

WJL/BES/amg

Oil Conservation Division - Aztec

SWD-457 File:

PSI-X, 4th Quarter



ANALYSIS NO. 51-76

FIELD RECEIPT NO.

API FORM 45-1

API WATER ANALYSIS REPORT FORM

Сэтралу		MALISIS REPORT FORM					
Field	Coleman	Lagai De		Sample No.	Data 32-apied 02-92		
Lease or (Discoso!	₩ ₀ 11 #	TAN ROW	Formation	Juan - NM		
-	Vater (Produced. Produced	Supply, etc.)	Sampling Point Pit	IM.V. (Pt. Looker	Sampled By		
LVZD SOLID: VS	2			OTHER RECRED			

DISSOLVED SOLID	3	
CATIONS	mg/l	
Sodium. Na (cale.)	7451	333.94
Calcium, Ca	168	8,40
Magnesium, Mg	39	3,80
Banum, Ba	***************************************	
Potassium, K	720	18.41
ANIONS		
Chloride, Cl	11879	335.10
Sulfata, SO,	185	3.85
Carbonate. CO.	0	0.00
Blearbonata, ECO:	915	15.00
Hydraxide, OH	0	70.00

Total Dissolved Sol	ida (cale) 21357
Iron, Fa (total)	<u> 35 po</u> m
Sulāda, 23 H4S	<u> </u>

REMARKS & RECOMMENDATIONS:

OTHER PROPERTIES		
DE Specific Co. 1		7.01
Specific Gravity, 60/60 F. Resistivity (ohm-meters) 78 F. Total Handham	-	1.013 .35
Total Hardness		580

WATER PATTERNS - ma/l

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Camilla			1,1,1,1	
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LEASE REFER ANY QUESTIONS TO:

HE WESTERN CO. OF NORTH AMERICA ARMINGTON, N.M. RIAN AULT-District Engineer (505) 327-6222

LABURATURY WATE

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Box 570		of laboratory managemen	securing the express written approve the II may however, be used in the operations by any person or concer-
Farmingt	on, N.M. 87499	and employees thereof re Compony. 3/25	Serving such report from Malliburic
Pour	g Harris	Date Rec.	an specific contract of the state of the sta
Submitted by	David 4255	Formation_	
Well NoMcGrach_	#4	Sourco	ST 12 4255-437
County.	Top Pagnyary	Bottom Recovery	Sample Chamber
			7 06
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		210	
Magnesium (Mg)	<u>NT</u>	TM	35
Chlorides (CI)	2900	6950	9900
Sulfates (SO ₄)			:
Bicarbonates (HCO _a)	320	765	670
Soluble Iron (fe)	NT	<u> </u>	NT
and the second s			
	error il general spelanti di consentanti del periodi di consentanti di consentanti di consentanti di consentanti		
Remarks:			*Milligroms per liter
Kemura:			
	lisedre	ully submitted,	
Analyst:		HALLIBURTON	N COMPANY
CCI		By	- Pina
		/	

NOTICE

This report is himself to the described sample tested. Any user of this report agrees that Halliburton shall not be liable for any loss of damage, whather it be to act or amission, resulting from such report or its use.

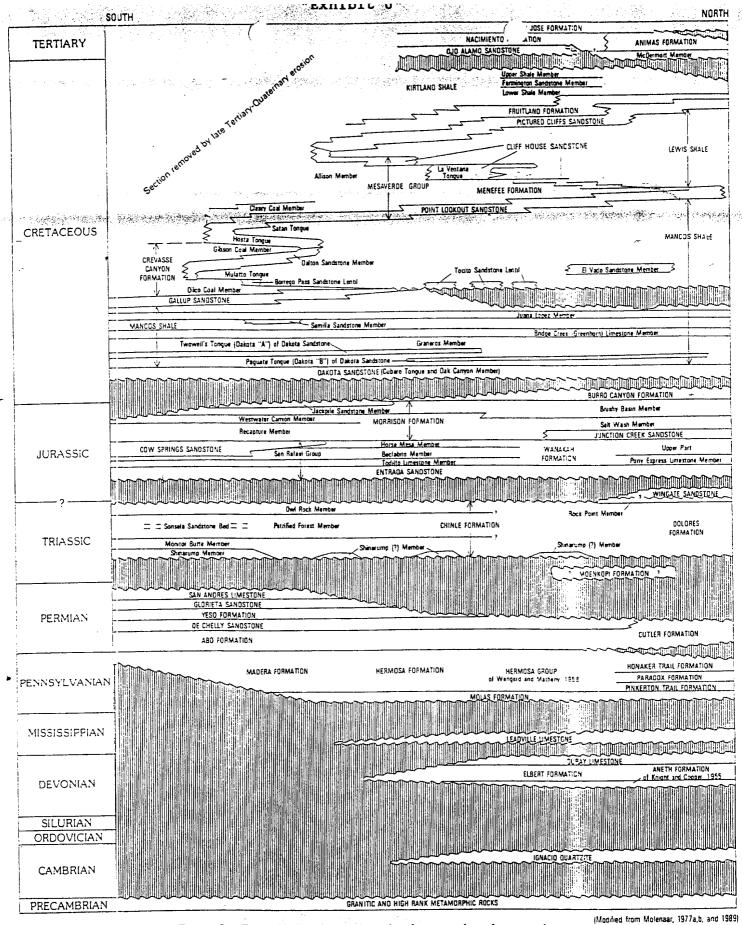


Figure 3. Time- and rock-stratigraphic framework and nomenclature.

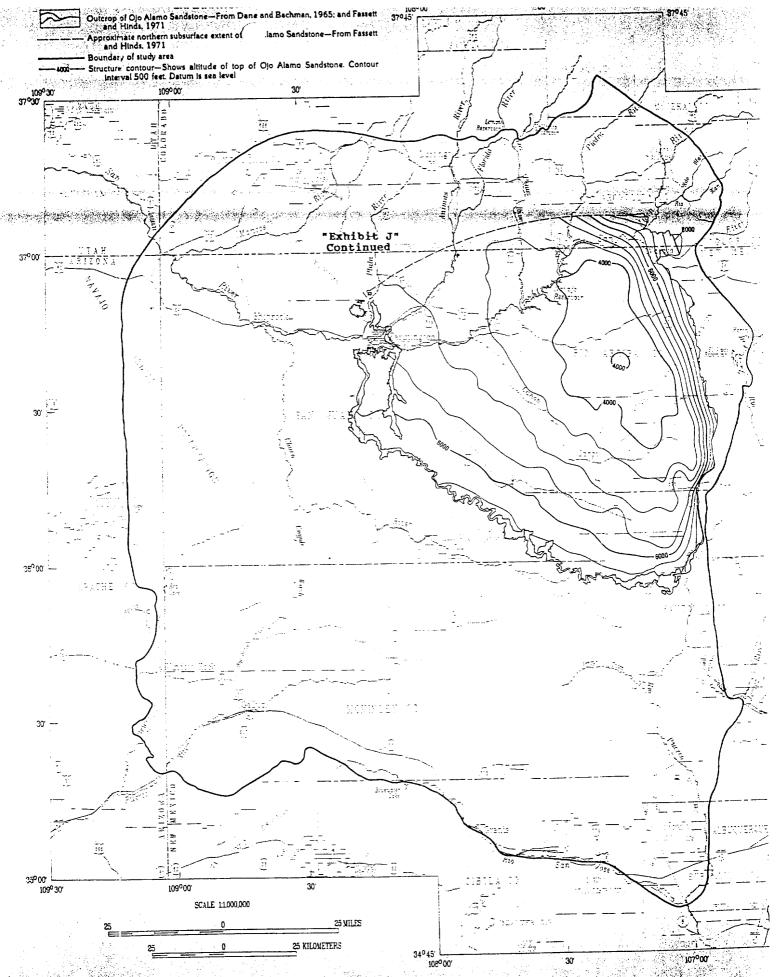


Figure 6. Approximate altitude and configuration of the top of the Ojo Alamo Sandstone.

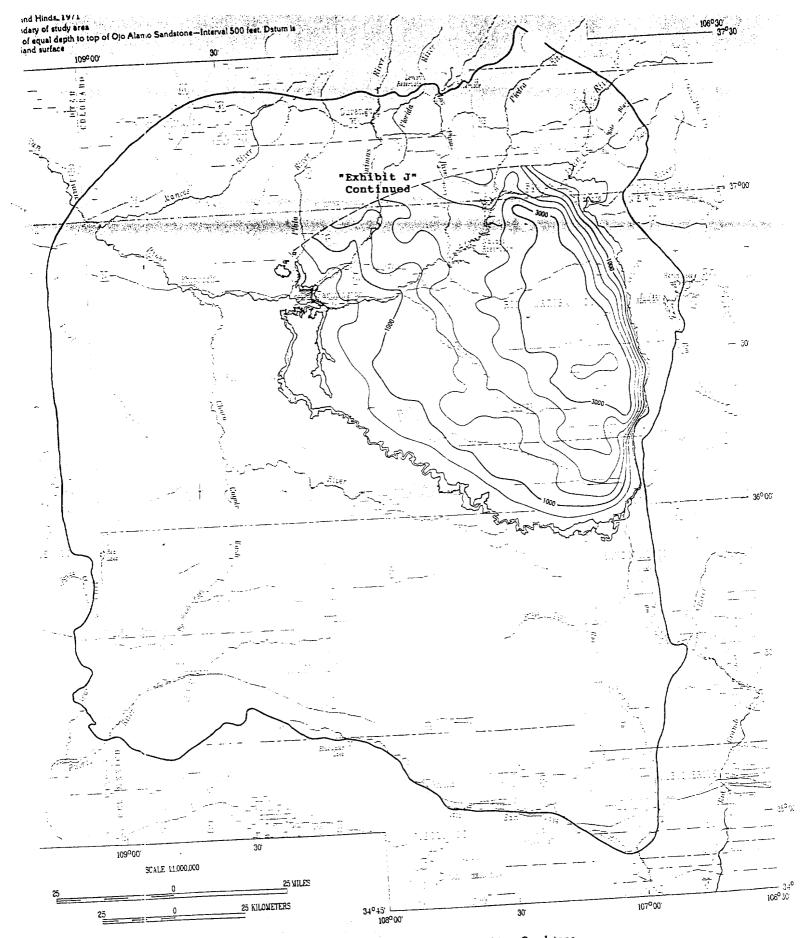


Figure 5. Approximate depth to the top of the Ojo Alamo Sandstone.

NOTICE OF PUBLICATION

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

"Exhibit K"

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 rulir g 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

SEAL

FORM C-128 Revised 5/1/57

NEW MEXICO OIL CONSERVATION COMMISSION

WELL-LOCATION AND ACREAGE DEDICATION PLAT

	SEE IN	STRUCTIONS FO	OR COMPLETING		THE REVERS	E SIDE	
			SECTI	JN A			Well No.
erator		rrespee Gas		len Dakota	Can Inda	1 A 11	1
<u> </u>		ensmission	Ran		County	<u> </u>	<u> </u>
init Letter	Section	Township 29 North	1 -	2 West	San Juan	County	
ictual Footage Lo	L Valle	1 29 NOTCH		2 . 030			
ictual rootage Li	feet from the	Morth	line and	O feet	from the Ve	st	line
round Level Elev	Producing F		Pool			Dedic	ated Acreage:
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who has the riganother. (65- 2. If the answer t wise? YES	ght to drill into and 3–29 (e) NMSA 19	d to produce from 35 Comp.) "no," have the i f answer is "yes	nterests of all the	appropriate the p cowners been co plidation	production either	r for himself o	Owner" means the person or for himself and on agreement or other-
	0 drestion two 13	no, list all th	e owners and mer			/-	#F1F4
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	190 1320 1650					Date Surveye 9 Werch Registered P and/or Land Robert F Certificate N	1961 rofessional Engineer Burveyor Frinst

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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

	40 ACRES	·	the Comme	Submit in QU			mati
	40 ACRES	retion	·				ntt "A"
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\frac{4}{4} \frac{1}{2}"	9.5#	New	21571				
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12 1/1 7 7/8"		SET	NO. BACKS OF CEMENT 200 SX 300 SX	Two Plug		MUD GRAVITY	AMOUNT OF MUD USED
12 1/L" 7 7/8"		26h! 6785°	NO. BACKS OF CEMENT 200 SX 300 SX BECORD OF	TWO Plug TWO Plug PRODUCTION	AND STIMUL	ATION	MUD USED
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OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

cotor			from the euter hounds	e transmission of the second o		Well No.
TENNECO OI	T. COMPANY		ALLEN HAH			1E
nit Letter	Section	Township	Ronge	County		
Τ.	l ı	29N	129	San	<u> </u>	
ctual Footage Lac	ation of Wells					
1450	feet from the	South line a	nd 790	feet from the	West	line
round Level Elev:	Producing Fo	rmation	Pool	4.1_3		ated Acreage:
5831	Dakota		Basin Da	Kota	5/9.	رر : 320 مرد
2. If more th	,=		well by colored pe			it below.
	communitization,	unitization, force-p				owners been consoli-
this form: No allowa	is "no," list the if necessary.)ble will be assign	owners and tract d	escriptions which h	ave actually bee	en consolidated	(Use reverse side of itization, unitization, roved by the Commis-
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FE Te	nnec¦ 100%	1	JAN	E] 》E [1 1985 N. DIV. T. 3	best of my kno	y that the information con- is true and complete to the wiedge and belief. M=Kisnny
		BURI FAR	JAN 1141985		Company Tenneco	ulatory Analyst
SF-06555 Tenneco Amax			1		shown on this nates of actu under my sup-	ify that the well location plat was plotted from field al surveys mode by me or arrision, and that the same correct to the best of my dibelief.
1450	I . I . I . I . I . I . I . I . I . I .	alo: 21-10:01			Date Surveyed October Registered Profond Cond/Sur Fred B. Certificate No.: 3950	essional Engineer

983) 9-331) DEPARTMENT O THE INTERIOR *** satruction of the interior of the i	SF-06557A
SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drull or to deepes or plug back to a different rese (Do not use this form for proposals.)	rvoir.
	7. UNIT AGREEMENT NAME
OIL WELL OTHER	\$. PARM OR LEASE HAME
2. HAME OF OPERATOR	Allen A
Tenneco Oil Company	9. WELL FO.
2040 5-1-1-10d CO 80155	10. FIRED AND POOL, OR WILDCAT
1. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) 1. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) 1. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) 1. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) 1. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) 1. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) 1. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)	Basin Dakota
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14. PERMIT NO. 18. BLEVATIONS (Show whether DF, ET, GR, etc.)	San Juan NM
30-045-26214	1 July Cudity
16. Check Appropriate Box To Indicate Nature of Notice, I	Report, or Other Data
NOTICE OF INTENTION TO:	SUBSECUENT REPORT OF:
TEST WATER SECT-CFF PCLL OR ALTER CASING WATER SECT-	1 1
PRACTURE TREAT MULTIPLE COMPLETE PRACTURE TRE	
SHOUT OR ACIDIZE - ABANDON® SMOOTING OR (Other)	Progress report
REPAIR WELL CHANGE PLANS	Report results of multiple completion on We'll
(Other) 17. b) SURISE PROPOSED OR COMPLETED OPERATION (Clearly state all pertiuent details, and give proposed work. If well is directionally drilled, give subsurface locations and measured a nent to this work.) 3/22/85 MIRU w/Four Corners rig #7. Spud 12 1/4" sur TOOH RU & run 7 jts, 8 5/8 32# K-55 STC csg. Total 30 Western & cmt w/15 bbl H2), 274 sx (325CF), "B" w/1/4 western & cmt w/15 bbl H2), 274 sx (325CF), "B" w/1/4	oface 10:15 am 3/22/85 Drlq.
1000 psi ok. TIH tag cmt @287, drill plug & cmt to 5 rams to 1000 psi ok. Drill ahead.	' end of shoe, test csg & pipe
3/31/85 RL run 163 jts, 5 1/2" 17# N-80 LT&C, total 11st stage w/20 bbls mud flush, 120 sx 221 CF 65-35 PO tailed w/100 sx 118 CF "B" w/ 1/4 #/sx cello-flake. Open tool & circ.	Plug on 4:15 am 4/1/85. Drop bomb
4/01/85 Crit 2nd stage w/20 bbl mud flush 500 sx 65/3 w/100 sx "B" 1/4# cello seal. Drop bomb open tool & mud flush 200 sx 65/35 6% gel 1/4# cello seal. Plug excess cemt. Rig release @3:30 pm 4/1/85	
15. I hereby certify that five foregoing is trust and correct	CIL COMMUNIA.
SIGNED STATE ST. Regul	atory Analyst DATE April 4, 1985
(Th's space for Federal or State office use)	ACCEPTED FOR RECOR
APPROVED BY	APR 12 1985
*See Instructions on Reverse Si	de FARMINGTON RESOURCE AS

Title 18 U.S. I. Section 1001, makes the crime for any person knowing's and willfully to make to any department or agency of the United States any false distinctions or fraudulent statements or representations as to any matter within its jurisdiction.

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PERATOR ROMATION OFFICE								
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Tenneco Oil Companyi							est est est est	
P. O. Box 3249, Engle	- NO. 801	55						
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ecompletion	Otl	Dry Gas	·					
hange in Ownership	Casinghead Gas	Condens	Late []		· · · · · · · · · · · · · · · · · · ·	<u></u>		
change of ownership give name	And the second of the second	. Open over the specific of the contract of th		18 July 2 18 14	and the second section of the second	المديرة للأساء	general general	822 - 832
address of previous owner			al to The Strate (Miles)	i de esta e de la consta	to an income to the a	desemble.	that - fortists	Total herenation
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eses Name	Well No. Pool N	Jame, Including Fo		Ì	Kind of Lease State, Federal o	USA	6.5	Lease No.
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ocation 1 1/15	O Feet From The	South	7	90	_ Feet From Th	_	West	
Unit Letter : : : : :	Feet From The	South Line	• and		_ teat t tow tu	•	WC36	
Line of Section 1 Tow	mahip 29N	Range	12W	, NMPM,		San	Juan	County
					,			
ESIGNATION OF TRANSPORT	ER OF OIL AND	NATURAL GA	S Address (G)	ue nddsees t	o which approve	d copy of	this form is	to be sent)
ame of Authorized Transporter of Oil	or Condens		1		t. East. E			ì
Gary Energy Corp.	inghead Gae C	Dry Gas X	Address (Gi	ve addrežs s	o which approve	d copy of	this form is	to be sent)
El Paso Natural Gas			:), Farming			
		Twp. P.ge.	la gas actua					
well produces oil or liquids, we location of tanks.	<u> </u>	29N : 12W	1	40		AS	SAP	<u>.</u>
this production is commingled wit	h that from any other	r lease or pool,	give commin	gling order	number:			
OMPLETION DATA	TOIL Well		New Well	Workover	Deepen	Plug Bac	is Same Re	stv. Diff. Restv.
Designate Type of Completio		X	X	1 1	1			
Oate Spudded	Date Compl. Ready t	o Prod.	Total Depth			P.B.T.D		
3-22-85	4-21-8	35		25' KB			6619' k	(B
ievations (DF, RKB, RT, GR, etc.)	Name of Producing F	Formation	Top Cil/Ga	-		Tubing I	-	/D
5831' GL	Dakota		<u> </u>	425' KB		Depth C	65591 k	(B
	36 holes						22' KB	
6425-36', 6502-28',	TUBIN	IG, CASING, AND	D CEMENTI	NG RECOR	l D	L		
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7 7/8"	5 1/2" csq		66	22' KB		F220	sx 1745	CF 1627
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	1 23/8			559		<u> </u>		
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Length of Test	Tubing Pressure		Casing Pre	ال الم	•	Chôké !	111)	
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				- 0 1	L CON.	VOIV.)	
GAS WELL	•	٠.		- 1	DIST. 3	}		
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back pressure	132	5	 	1325		<u></u>		<u>/4"</u>
CERTIFICATE OF COMPLIAN	ICE		6-12	OIL	CONSERVA		\$19 No. 10 to 10 No. 1	
		NI C	(B) —			JUN	1 2 198	1519
hereby certify that the rules and Commission have been complied	regulations of the twith and that the	information given			Original Sign	THE WAR STREET	Black Committee	
have in this and complete to th	e best of my know	ledge and belief.	il By	35. 沙羅 医克里	AriAmor Sign	CO DY TK	711 1. CI	MEA

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NEW MEXICO OIL CONSERVATION COMMISSION Well Location and Acreage Dedication Plat

TION A.			D	
ergtor Autec Oil and Gas Co	MDSDY	Young	Date_ July 27, 1961	
Vell No. 1-D Unit Letter D		026		
Located 990 Feet From _	Sorth.	Township 29N 990	7.7	_ NMPA
_	Line	· · · · · · · · · · · · · · · · · ·	Feet From	Lin:
	Dakota 2001	Dedicated A Pool	Crecce 35 319.94	Acre
1. Is the Operator the only owner in the	dedicated acreage out	ined on the plat bel	ow? Yes X No	
2. If the answer to question One is No	have the interests of	The state of the s		1
	No If answer	's Yes. Type of (en consolidated by commun	Hizahici Mida
3. If the enswer to question Two is "N.		12 KB 12 KB		
3. If the conswer to guestion I wo is "No	list all the owners o	nd their respective	interests below:	
			AND DESCRIPTION	
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SECTION B. STATE CONTROL OF THE SECTION OF THE SECT			F OIL CON CO	X / S
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			and the second	MON
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			LAND SURVEYOR	
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NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico

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WELL RECORD

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e of Drill	ing Contracts	or Summi	t Dr	IIIIng Co.	IDUITY			************	***************************************	••••
ress		Box	# 190	Farming	on, new re	X1 CO	*****************			•••••
ntion abov	r sea level at	Top of Tubir	ng Head	G.L 5	347	The info	ormation gives	n is to be	kept confidentia	lบก
non-c	onfident	ial	, 19.		ĩ					
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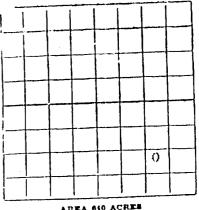
NEW MEXICO OIL CONSERVATION COMMISSION Well Location and Acreage Dedication Plat

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NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico

WELL RECORD	
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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

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NEW MEXICO OIL CONSERVATION COMMISSION Revised 7/2/57 Santa Fe. New Mexico

REQUEST FOR (OIL) - (GAS) ALLOWAPLE

WITHIN 1/2 MILL

New Well Recompletion

This form shall be submetted 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 able will be assigned effective 7:00 A.M. on date of completion or recompletion or recompletion. The completion date shall be that date in the case of an oil well when new oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

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NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

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WELL RECORD

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Mail to District Unice, 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 Contents

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WELL LOCATION AND ACREAGE DEDICATION PLAT

·			SECTION	A			Well No.
			Lease	L MEN DAK	TA GAB UE	IIT "C"	1
LECO OIL CO.	PANT		Range		County		
Letter Se	CTION	Township 29 North		12 West	San Ju	en.	e ny taona ara-day ao kampina na 194 4 di kao
i Footage Local	ion of Well:		000	feet	from the	rest	line
990	et trom me	Worth was the	Pool		· · · · · · · · · · · · · · · · · · ·	Ded	icated Acreage:
ad Level Elev.	Producing	Pekota Dekota		esin Dako			
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the Operator th	e only owner	in the dedicated acres and to produce from ar	y pool and to at	propriate the	production eit	ber for bimsel	07 JOY BEMSES
bo has the right	29 (e) NMSA	1935 Comp.)		owners heen C	onsolidated by	y communitiza	Construent or other-
f the answer to	question one	is "no," have the inte	rests of all the	idation		103	11111
wise? YES	_ NO	is "no," have the inte . If answer is "yes," is "no," list all the o	wners and their	respective int	erests below:	/ ik!	
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					·		7,51.3
						7 ~	ERTIFICATION
		SECTION	3			Thereby co	rtify that the information
			•			: SECTION	A above is true and com-
2				į		plete to the	best of my knowledge and
8				1	1	belief.	
,) 				1	Name	
+ 990' -	b						Lucy 3. J. Lac
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				1		and the	o oil company
	ļ			i		Date	4 1061
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	ļ	Section	11			1	-
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				į		shown on	the plat in SECTION B was
	1			Ì		plotted fr	om field notes of actual
	1			}		surveys	nade by me or under my on, and that the same is tru
· ·	į					and come	ect to the best of my knowle
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PLUGS AND ADAPTERS

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	Jait Letter P Feet From G ormation Dak ne only owner in the question One is "N herwise? Yes X DWNER	Jait Letter P Section 34 Feet From Bouth G. L. Elevation Dekots The only owner in the dedicated acreage question One is "No," have the interest herwise? Yes No If are question Two is "No," list all the owner the owner than the o	Joint Letter P Section 34 Township Feet From Bauth Line, 1190 an G. L. Elevation 5774 Dedicated ormation Dekota Pool question One is "No," have the interests of all the owner herwise? Yes X No. If answer is "Yes," Type question Two is "No," list all the owners and their responsers DWNER DWNER JAN 23 1963 OIL ICN. COM.	OIL A GAS COMPANY Lease Mc CRATE Township 30N Range Feet From Bouth Line, 1190 Feet From Da G. L. Elevation 5774 Dedicated Acreage 320 promotion Dekota Pool Basin Dekota peonly owner in the dedicated acreage outlined on the plot below? Yes appeared by the interests of all the owners been consolidated to the rivise? Yes X No. If answer is 'Yes,' Type of Consolidation Companies 'No.' have the interests of all the owners and their respective interests below. Guestion Two is 'No.' list all the owners and their respective interests below. This is to certain the degree of the companies of the

U. S. LAND OFFICE SAMM PE SERIAL NUMBER ... 077922 LEASE OR PERMIT TO PROSPECT UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY STATEMENT OF THE STATEM · 1998年前提供 LOG OF OIL OR GAS WELL LOCATE WELL CORRECTLY Company AZTEC OIL AND GAS COMPANY Address . O. DRAWER 570 FARMINITOR, N. 1601. Field BASIN DAKOTA State BY 15 TCO Lessor or Tract McGRAIN Well No. C-1 Sec. 34 T 30N R. 124 Meridian R.M.P.M. County SAN JUAN Location 870 ft. N. of S. Line and 1190ft. of E. Line of Secrice 34. Elevation 5771 g. 1 The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records. Signed .. JOE C. SALMON Title DISTRICT SUPERISTRICATION The summary on this page is for the condition of the well at above date. Commenced drilling Franker 7, 1963 Finished drilling Franker 18, 19.63 OIL OR GAS SANDS OR ZONES (Denote gas by G) No. 4, from _____ to ____ No. 1, from 6387 to 6400 5 No. 5, from _____ to ____ No. 2, from 6162 to 6184 0 No. 6, from _____ to ____ No. 3, from 6542 to 6576 2 IMPORTANT WATER SANDS No. 3, from _____ to ____ No. 1, from _____ to ____ No. 4, from _____ to ____ No. 2, from _____ to ____ CASING RECORD Perforated Purpose Weight Threads per inch Kind of shoe Cut and pulled from Amount Fromput in to test for water, finte itied of mpterial used, position. 102 8619 d rd. (04.135) rompicing intervel to well. Please state in durail the dates of redr 8-rd. MUDDING AND CEMENTING RECORD Amount of mud used Method used Mud gravity Size easing Where set Number sacks of eement Displacement 8 5/8 227 925 PLUGS AND ADAPTERS Depth set Length . Heaving plug-Material .. Adapters-Material.....

orm approved. udget Bureau No. 42-R355.4

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, y ==330)	DEPART	ME	NT OF	THE	INT	ERIOR		al runt non				AND NERIAL NO.
			OF LAND					106	*	SF-0	7792 Miliotti	Z OR THUR NAME
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2. NAME OF OPERAT			nou :			FEB 2	0 19	85		9. WELL SO.	_	
3. ADDRESS OF OFE	duction C				_ (AL CO	V.	DIV.		10. FIELD AN		OR WILDCAT
501 Airpo	rt Drive,	Farm	ington,	NM 8	7401	DICT	E	IVE		Basin D	akot	A BLOCK AND BURYEY
At surface	1770' FNL	× 14	80' FEL				1 1	1985		UK AREA		
At top prod. Ini	erval reported be	low S	Same		5.		_			SW/NF	Sec.	34, T30N, R1
At total depth	Same			1 14. CER	HUI NIT NO.	REAU OF L	ATE T	MAINAGE	ARE	T 1		13. STATE
			_		•			<u></u>		San Ju	an	NM LEY. CABINGHEAD
15. DATE SPUDDED	16. DATE T.D. I	EACHED	17. DATE	CONTL (Ready 10	prod.) 18.	ELEY	ATIONE (OF	, RKS,	RT. GR. ETC.)*		772' GR
11/20/84	12/2/	84		1/7/8	17 1111.7	TIPLE COMPL.	===	785'-K- 21. INTER DRILL	FALS	BOTARY TOO		CABLE TOOLS
20. TOTAL DEPTH, MD				1	now A	710			>	1 0-TD	1 25	WAR DIRECTIONAL
34. PRODUCING INTE	EVAL(S). OF THIS	CONPL	ETION - TOP.	BOTTON,	MANE (M	AND TVD)*					+	SURVET MADE
6396¹-	6576' Dako	ta									27. 🔻	Yes
26. TIPE ELECTRIC	AND OTHER LOCE R-FDC-CNI	GR						· .				No
28,			CASI			ort all elringe LE XIZE	set is	e well)	ENTIN	E RECORD		AMOUNT PULLED
CARING SIZE	WEIGHT, LS.		316		12-1		29	5 c.f.	Cla	iss B		
8-5/8" 4-1/2"	24#, K-					/8"	St	age 1:	1.	032 c.f. (Class	B 50:50 poz Class B Neat
4-1/2										with 118 o	سلم	Class B Near
		LINE	R RECORD		<u>!</u>		<u> </u>	30.	بدي	TUBING REC		PACKER SET (MD)
29.	107 (MD)		OM (MD)		EMENT.	SCREEN (M	D)	SIZE		DEPTH SET (MD)	PACKER BET (MD)
								2-3/1	1	6575'		
31. PERFORATION A	roen (Interval.	ILEC GRO	d number)	<u> </u>		32.	A	CID. SHOT.	. FRA	CTURE, CEME	NT SQU	JEEZE, ETC.
	', 4 jspf.			-6396'	,	DEPTH IN			-			gel & 25,000
64241-6420	i'_ 6508'-6 [‡]	176',	6520'-6	5516,		<u>(6558'-</u>	657	(6')		.000 gar. -40 sand	<u> 30#</u>	ger o sare
2 jspf, .5	o", total o	of 18	0 holes	•		[6396'-	652	(101)	70	,000 gal.	70 c	quality foam 8 and.
-						DI.CLION						us (Producing or
DATE FIRST PRODUC	TION PRO	DI CTIO	NETHOD (Flowing,	gas lift, j	pumping—size	and	type of pu	mp)		hut-in)	Shut-in
1/30/85	I HOURS TESTS	<u> </u>	FICTORE SIZE	wing	N. FOR	011REL.		GAS - M	CF.	- nataw	88L.	GAS-OIL BATIO
1/31/85	3		.75"	-	PERIOD		XCF	168		LRHBL.	014	GRAVITY-AFI (CORR.)
FLOW. TUBING PRESE			CALCULATED		- BR[1	44					
104 psig	397 DS	ig for fuel,	, vented, etc.	.)					·	TEST WIT		1 No. 1
the state of the s	be sold			,						ACCEPTE		R RECORD
35. LIST OF ATTAC	RYENTS										1.5	
No 36. I bereby coll	Le nier tpe (oces	oins ar	d attached	Informatio	on le con	splete and co	rrect	48 determi	ned f	rum all avallab	B 1	1 1985
SIGNED	iginai Sigr _B_D.Sha	iea E		•	auti.	_Admini	stra	itive S	upe	rvisor p	ATE _	7/4/85

. COMPLETION DATA			Plug Book 'Some Ree'v. DUL Re
Designate Type of Complete	ion - (X) On well Com well	New Wall Workover Deepen	Plug Bock Scroe Reery, DUL Re
Dear Barrier St. Land Control of			I P.B.T.D.
as forested	1/7/85	Total Copts 66081	6604'
11/20/84		Top OIL/Cas Pay	Tubing Depth
5772' GR	• Dakota	6396'	6575'
Torottone	6', 6424'-6420', 6508'-6476'	, 6520'-6516'	Depth Coming Shoe 66091
6576-6558', 6410'-639	TUBING, CASING, AND	CEMENTING RECORD	
	CASING & TUBING SIZE	DEFTH SET	SACKS CEMENT
HOLE SIZE	8-5/8", 24#	316'	1 295 c.f.
12-1/4"		6609!	13031 c.f.
7-7/8"	4-1/2", 10.5#		
	1 1 - 11		
	2-3/8" FOR ALLOWABLE (Test past be a	fer recover of total volume of load oil o	tal must be equal to or exceed top a
TEST DATA AND REQUEST	TEOD ATTOWARTE Contraction		
TEST DATA AND REQUEST OIL WELL IN First Now OIL Run To Tooks	FOR ALLOWABLE (Test must be a skie for this de	ifter recovery of social volume of load oil e spek or he for full 24 hours?	
TEST DATA AND REQUEST OIL WELL TO FIRST NOW CILI RUA TO TEXAS TOTAL	FOR ALLOWABIE (Test must be a shie for this de	feer recovery of total volume of load oil e rick or he for full 24 hours). Producing Method (Flow, pump, gas lif	t ated : See
TEST DATA AND REQUEST OIL WELL TO FIRST NOW CILI RUA TO TEXAS TOTAL	T FOR ALLOWABLE (Test must be a shis for this de	feer recovery of social volume of load oll a rpck or he for full 24 hours) Producing histhod (Flow, pump, gas lif Coming Pressure.	Choto Size
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P. O. UOX 2088

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S. TA FE, NEW MEXICO 37501

All distances must be from the cuter haundaries of the Bretim. Wall No. CARNAHAN COM RION OIL & GAS CORPORATION County Range Section 12W Juan San 30N ual Footage Location of Welli 1070 line leet from the feet from the South line and Dedicated Acreoger und Level Elev: Producing Formation Basin Dakota 5905 Dakota 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership there of 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 consoli-OIL CON. D.Y. dated by communitization, unitization, force-pooling. etc? DIST. 3 Communitized If answer is "yes," type of consolidation _ X Yes If answer is "no;" list the owners and tract descriptions which have actually been 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, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commis-CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and bellef. Fee Name Steve S. Dunn Position Operations Manager Merrion Oil & Gas Corporation SF 068990 Sec. 11/17/83 I hereby certify that the well location shown on this plat was plotted from field 35 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. 10701 060 3950 Scile: 1"=1000'

P. O. Box 1017, Farmington, New Month	· · · ·						V				Forw C- Revised	-105 1 10-1-78
SANTA FE. NEW MEXICO 87501 SA	, MINEFALS D	EXICIO EPARTMENT	•	OIL CO	NSER	VATIO	ON DIV	ISION	/	Stat	• 🔲	Foo
VELL COMPLETION OR RECOMPLETION REPORT AND LOG 1.0.10	HOITUBIRTEIC				FE.	VEW ME	EXICO 8			5. State	C11 & C	las Lease No.
## C F C	CE		WELL C	OMPLETIO	N OR F	RECOMP	LETION F	REPORT A	ND LOG			
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Secretaries Secretaries									1 10 =			- · ·
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27. Age Notes 10.5	te of Operator Merrion OIL &	Gas Cor	poration	on			0	II COM	. DIV.	IO. FI	end cma	Pool, or Wildest ikota
Past Past	iress of Operator	7 Farmi	ington,	New Mexi	.co 81	7499		DIST.	3	777	m	HHHH
Table	P. O. BOX 101	. 7 , 1 6 2 3 1 1						1070				
128 128 15. Date T.D. Resched 17. Date Compl. (Ready to Prod.) 15. Evertions (DF, REB, RT, GR. etc.) 19. Ever. Cashing people 5/15/64 6/24/94 7/23/84 18. Multiple Compl., How 5918 KB 5905 GL 5780 KB 6/25 KB KB 6/25 K	ئو	LEICATED	1090	FEET FROM	. THE	South	LINE AND -	777777	. PEET PEOM	7 12 00		
15.		35	TWP.			HMPM		avertona (DF	, RKB, RT,	GR. esc.	JI 19. E	lev. Casninghead
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27, Wes Well Corver 1709 1700	Descript Interval(s)	of this com	pietion —	Top, Bottom,	Vœm•	·•					İ	
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CASING RECORD (Report all strings set in well) CASING SIZE WEIGHT LB./FT. DEPTH SET HOLE SIZE CEMENTING RECORD AMOUNT PUL S-5/9" 14 ±/5c, J-58 230	Type Electric and Ct	ner Logs Ru	n	Density	Logs							No
CASING SIZE	IES Industic	on, comp	ensatec	Deliarel	ic asco	PD (Repor	rail strings	set in well)				AMOUNT PU
S-5/8" 14 #/ft, J-53 230' KB 12-7/8" 400 sx (488 cu. ft.) Class 3 4-1/2" 10.5 #/ft, J+55 6777' KB 7-7/8" 600 sx (1236 cu. ft.) Class 3 100 sx (122 cu. ft.) Class 3						HOLE	SIZE	CEN	MENTING R	ECORD 1	Clas	
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SIZE			LINER	RECORD								PACKER
Pertorquical Recert (Interval, size and number) 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.					SACKS	EMENT	SCREEN			65	30' K	В
### Performation Record (Internal, size and number) 6529, 6538, 6541, 6617, 6620, 6625, 6629, 6632, 6700, 6705, 6710, 6714, 12 holes, 0.32" 6529 - 6714' KB 75 Quality Foam 434 Bbls H20	SIZE	105				-						
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7/23/84 Flowing Choke Size Prod'n. For OH = Bbi. Gas = MCF Water = Bbi. Gas = Cli Retto 1			Production	n Method (Flo	wing, ga	s lift, pwni	ous – acc	2,142 1/p= p== .	•	\s	hut 1	
re of Test Hours Tested Choke Size Prod'n. Far Test Period 2 Bbls 603 MCF/D trace 37,000 9/3/84 3 20/64 Test Period 2 Bbls 603 MCF/D trace 37,000 7/20 Tubing Press. Casing Pressure Hour Rate 16 603 MCF/D trace 48° 850 PSI 950 PSI 603 MCF/D trace 48° Test Witnessed By Tim Merilatt												
9/3/84 3 20/64 Signary Pressure Tubing Press. Casing Pressure Proposition of Gus (Sold, used for fuel, vented, etc.) 20/64 Signary Pressure Calculated 24- Oil - Bbl. Gus - MCF Water - Bbl. Oil Gravity - APT (Calculated 24- Oil - Bbl.) Gus - MCF Water - Bbl. Oil Gravity - APT (Calculated 24- Oil - Bbl.) 603 MCF/D trace Test Witnessed By Tim Merilatt		Hours Te	sted	Choke Size	Prod'	n. For Period		1	MCF/D	trac	e	37,688
State Stat		ì		20/64			1	<u> </u>		BbL.	10	II Gravity - API
250 PSI 950 PSI Hour Adde To God (Sold, used for fuel, vented, etc.) Test Witnessed By Tim Merilatt			ressure	Calculated 2						ce		
Disposition of Gus (Sold, used for fuel, vented, etc.) Tim Merilatt	aca DCT	950 1	PSI		>	T.D				Test W	itnesse	i By
Disposition of Ods (2000)	SOO PST	- (Said. used	i for fuel.	vented, etc.)						Tir	n Mer	ilatt
	Disposition of Ga	_								1		

hereby that the information shown on both states of this form is true and complete a the best of my know cage and belief.

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Carnation Unit #1

Basin Dakota Pool

Unit P, Sect 35, 30N, 12W

San 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

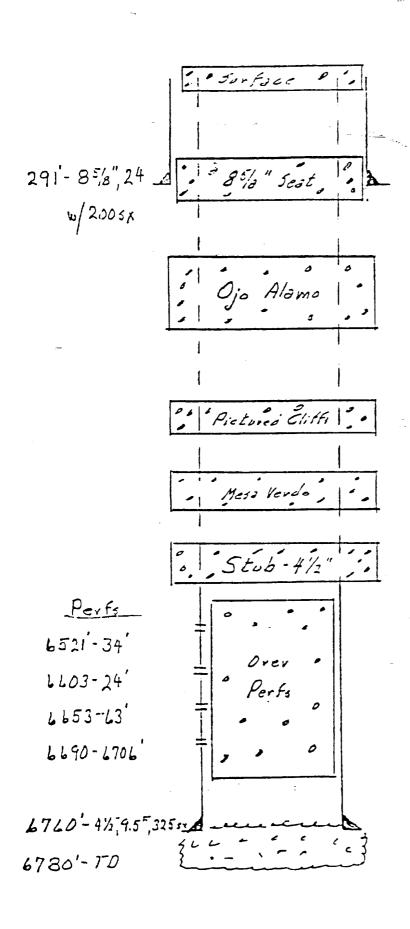
c. Picture Cliffs

d, Ojo Alamo

e. 85/8" casing seat

F. surface

4. Monument



JCG/4-2-71

NEW MEXICO OIL CONSERVATION COMPISSION WELL LUCATION AND ACERAGE DEDICATION PLAT

All distances must be from the suter boundaries of the Continu

			All 4151	ances mass de		· DOSHOCIES	at the Sec	T 76 R		···
rator					Lease				Well No	
ztec Oil	& Gas	Compa	ny		J.	Histison			3	
nit Letter	Section	•	Township		Range	:	County			
_	1 35	;	30 No	rth .	. 12	Wes t	S	an Juan		
rual Footage La	ocation of	Well:								
1750	feet	from the	North	line and	990	fee	t from the	West	i <u>ne</u>	
round. Levei Ele.		Producing	Formation		Pool Beat	n Dakota			Dedicated Avereage	
5857		Deleni	a - Moseve	mia				ede (Ext	.) 320	Acres
2. If more the interest and restance the second nan one oyalty), ian one zation,	lease is ease of unitizati	different own on, force-bool	the well, ou ership is ded ing. etc?	tline each c	and identif ne well, hav	y the ow se the int	mership th	t below. nereof (both as to all cwners been cons		
(X) Yes I) No	I	f answer is "y	es," type of	consolidatio	on Cam	modtl	etion		•••••
			ners and tract		which have	actually o	consolidat	ted (Use	reverse side of this	form if
No allowable ·	will be a	ssigned	to the well unt	il all interes	ts have beer nating such	consolida interests, l	ted (by has been	communiti approved l	ization, unitization, by the Commission.	forced-

1750 _90<u>_</u> S

CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. CRIGINAL SIGNED BY JOE C. SALMON

Name Position Joe C. Salmon

Compositionict Superintendent

Date Astec Oil and Cas

Way 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

N

March 31, 1966
Registered Professional Engineer

and/or Land Surveyor

•	DEPAR	TMENT	OF TH	E IN	TERIOR	₹	(See other structions	on 5 Think Press	NATION AND SERIAL NO.
		GEOLOGI				į	reverse si	SF 07	
24511 66	NADI ETION	I OD DEC	2 4 DL E 2	I JAOU	DED COL	AND	LOG*		LLOTTEE OR TRIBE NAME
	MPLETION			ION I	KPORU.			T = I	
1a. TYPE OF WE	W	ELL WELI		DRT	ther		_ I V L_ I	7. UNIT AGREES	MENT NAME
b. TYPE OF COM		EP- PLCG	TI DIE	ъ. —	1 - 1	NIC 4	0 - 1000		<u> </u>
WELL LX	OVER L E:	N L BACK	L BES	SVR.	Other	100_4	2 - 1966	S. FARM OR LE	er F E
2. NAME OF OPERA		÷*			, , ,			9. WELL NO.	<u> </u>
3. ADDRESS OF QP	dl and Gas				0.5	SEOLO(SICAL SURV	EX - 2	
Drawer		rmington,	Nev Mex	പ്ര		-		10: FIELD AND	POOL, OR WILDCAT
4. LOCATION OF WI	ELL (Report locat	ion clearly and i	n accordanc	e with an	y State requi	rementa	-) •	Basin Dako	ota
At surface 1	750 FNL &	990 FWL Se	c 35, I	ъ30 ¤,	R-12V			11: SEC., T., R., OR ARZA	M., OR BLOCK AND SURVEY
At top prod. in	iterval reported b	elow			£.	*	-		
At total depth									
At total depth		æ	1 14. PI	ERMIT NO.		DATE IS	SCED	Sec 35, 12. COUNTY OR	13. STATE
:	•		127.11		1			San Juan	New Mexico
15. DATE SPUDDED	16. DATE T.D.	REACHED 17. D	ATE COMPL.	(Ready to	prod.) 18	, ELEVA	TIONS (DF. RE		9. ELEV. CASINGHEAD
7/22/66	8/4/66	l e	/15/66			585	7 GL		5858
20. TOTAL DEPTH. MD	▲ TVD 21. PL	UG, BACK T.D., MD	a TVD 23	2. IF MULT	TIPLE COMPL.		23. INTERVAL		CABLE TOOLS
6750		6732		NOW II.	a.· .	-	>	- X	7 1 -
24. PRODUCING INTE	RVAL(S), OF THIS	COMPLETION	OP, BOTTOM,	NAME (M	(D AND TYD)*			်မီမှ လည်း န	25. WAS DIRECTIONAL SURVEY MADE
						, - <u>:</u> =			# 공통하습니다.
6460	<u>• 6680</u>					# 1. 		= = <u></u>	WAS WELL CORED
					:	} <u> </u>			10
2 5.	• Ind and]			OPD /Pen	ort all strings	e set in t	well)	<u> </u>	
CASING SIZE	WEIGHT, LB.	-	SET (MD)		LE SIZE			NG RECORD	AMOUNT PULLED
8-5/8*	24#	30	6	12	2-1/4		250	V====	
4-1/2	10.5#				-7/8		700	V	-
* :								1000	_
					-	11.5		e fili	1. The state of th
29.		LINER RECOF	ID.		···	3	30.	TUBING RECORI	
SIZE	TOP (MD)	BOTTOM (MD)	SACES C	EMENT*	SCREEN (M)	D)	SIZE	DEPTH SET :(MD)	PACKER SET (MD)
		ļ	_				1支	6597	
31. PERFORATION RE	CORD Unterval. s	ize and number)			1 00	A CUD	CHOT ETA	COURSE CONTROLS	OHERE ETC
	,	,			DEPTH INT		······································	AMOUNT AND KIND O	
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04000000	10 <u>00</u> 2, 000		SPF	· ·	6460-66	56 8-3		10 000# 20/)10) · · · · · · · ·
		-7	LAL			- .		20 000# 20/30	
								125 balls	
?3.*				PROD	UCTION	•			
ATE FIRST PRODUCT	PROD PROD	UCTION METHOD	(Flowing, g	as lift, pu	mping-size	and typ	e of pump)	WELL STA	
		flowi	rio C	Q1 Q1				27.	shutein-
ATE OF TEST	HOURS TESTED	CHOKE SIZ	FEST	NE YOR	OIL-BBL.		GAS-MCF.	WATER BEL	GAS-OIL BATIO
8/22/66	3 br	3/4*		>		÷.	- [
LOW. TUBING PRESS.	CASING PRESSO	RE CALCULATE 24-HOUR R		BBL.	GAS—		II WATE	R-BBL.	L GRAVITY-API (CORR.)
170	747	r fuel wented	<u> </u>		2	485		TEST WITNESSE	
.z, Dispusition of C	res (noti, assa 10:		·			= :		TOT CALL ST	ACB_
5. LIST OF ATTACE	MENTS	vented	· · · · · · · · · · · · · · · · · · ·	g_5	 -	<u>. </u>	· · · · · · · · · · · · · · · · · · ·	- Writing	N
				b9 ed	5.	- 1	,-·	OSITION	불우리 위험
5. I hereby certify	that the foregol	ng and attached	information	,		ct as d	etermined fro	m alt available reco	rds
ومسر				i de		3 3 7		· " " " " " " " " " " " " " " " " " " "	7: ·
SIGNED	and C	north 2	TI C	The P	Distri	ct io	gineer	DATE _	August 23, 1966
	/*/C_	e Instructions	and C	as far A	ا د د د نوزاد ا)	n Royana C	3:40)	<u> </u>
	(26	e instructions	апа эрас	es tot W	adinonai L	ים מום כו	u Veasize 2	nae)	

NEW MEXICO OIL CONSERVATION COMMISSION

WELL LOCATION AND ACERAGE DEDICATION PLAT All distances must be from the outer boundaries of the Section Hudson c Oil & Gas Company Ronge Section. San Juan 12 West 30 North not Foregre Location of West feet from the West 1750 Feer from John North . _____ insigns
Grant Lave Siev Producing Formation F. Basin Dakota Dedicated Avereage Acres Flora Vista Mesaverde (Ext) 5857 <u>Dasota - Mesaverde</u> 1. Outline the accrage dedicated to the subject well by colored pencil or hachure marks on the plat below. . If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working nterest and royalty), 3. If more than one lease of different convership is dedicated to the well, have the interests of all convers 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 No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forcedaccling, ar otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION N hereby certify that the information contained to the best of my JUN2 CONTROLLED and belief. OIL CON. 20 Meyledge and belief. DIST. 3 CRIGINAL SIGNED BY 10E C SALMON Joe C. Salmon 1750 District Superintendent Campany Aztec Oil and Gas May 27, 1966 S 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 N that the same is true and correct to the best of my knowledge and belief. Date Sunered March 31: 1966
Fegistered Frotessional Engineer and/or Land Surveyor

Certificate No. 3602

E J		L CONSERVATION COMMI IN	Fore 1 s Supersedes that 1 list and Cells
<u> </u>	AUTHODIZATION TO T	AND	Effective (-) r
(, G) c)CE	AUTHORIZATION TO	RANSPORT OIL AND NATUR	RAL GAS
AUSTONIER , OIL			. م
JERATER)
PROPATION OFFICE	1.1		(
Aztec Of	Land Gara		<u> </u>
Peneral Con Filing Check prope	570 Farmington, Nov.	Hexteo	
Yew Are	· hange in Transporter of:	Other (Please explain	
The many transport		Gas [
change of ownership give na		ndensote 1	
nd addiese of previous owner.			
ESCRIPTION OF WELL A	ND LEASE.	Computer Vinit	#35# #35# \$
Bidson	3 Basin Dako	ta Sine.	earth Fed SF 077922
ter errer E	1750 Seet from the North	me and 990 general	con the West
		12W , 1968 to, S	i
ESIGNATION OF TRANSP	ORTER OF OIL AND NATURAL (
tine mize til "tapanorter ()	or Condensate X	Attense Give address to which .	ipis releaps relies from selections of
Flateau Tacor	Castinghe id twie () or Dry Gris 🛣	Box 108 Far	mington, New Mexico
Southern Union	в С эя Сотр а ху	Box 815 Farm	mington, New Mexico
ne of estimated and extended of the control of the	Unit Sec. wp. (rge.	Is also not analy concepted.	Allier
his production is commingled	with that from any other lease or pool	and the second s	
MPLE UON DATA	Cil Well Gas Well		
Designate Type of Comple	etion = (X)	Mew Art. Workever Conje	The Back Came Pests Lift Beats.
nt - 100	Trace Compil. Pleady to Prod.	Intal Tepth	F.B.T.5
7/22/66	8/9/66	6750	6732
	Dakota ,	6460-6680	6597
eterative,	567-72, 6589-85, 6668-80,		Perth Coming Show
7	TUBING, CASING, AN	O CEMENTING RECORD	6750
ICA FOLESIZE	GASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
7-7/8"	0.05/8" 14.01/2"	300	250 sx
] \rul\2"	6597	15Q_ B X
		1	
	FOR ALLOWABLE (Test must be able for this d	after recovery of total volume of load epth or be for full 24 hours;	oil and must be equal to or exceed for allow-
* The New Oil Bun To Tanks	Date of Test	Producing Method /Flow, pump, ga	s lift, etc.)
Special Control of the Control of th	Tubing Pressure	Casing Pressure	Choke Size
.a) Frad Chiring Test	^1, - 8b.a.		CCEILEN
	11-10-10-1	Water - Bb.e.	San SEPTIATO
			SEP 2 1966
S WELL	Length of Teet	Bhis Condenses Co.C.	SEP COM.
2485	3 hr	Bbls. Condensate/MMCF	OIL' CON. COM.
	Tubing Pressure (Shut-in)	Cosing Pressure (Shut-in)	Choke Size
DECK TREASURE	170 NCS	747	3/4"
or com LIA.	* S. O.	:!	VATION COMMISSION
inter here been complied	regulations of the Oil Conservation with end that the information given	li	<u>IP - 2 1966</u>
the frie and complete to the	ne best of my knowledge and belief.	By Original Signed	by Emery C. Arnold
		('	ISOR DIST_#3
DIUGINAL SIGNED BY J	OFC SALKON	i }	n compliance with AULE 1104.
	natura)	If this is a request for all	owable for a news drilled or deenened
Matrict Superi		tests taken on the well in acc	
T	itle)	All sections of this form to ble on new and recompleted	nuet be filled out completely for allows
angust 31, 1966	era t	Fill out only Sections 1	II III and W. for changes of suns.
		Separate Forma C-104 m	orter, or other auch change of Lord one
•		the Cetail saids	

State of New Mexico Einigy, Minerals and Natural Resources Departmen

Form C-105 Revised 1-1-89

-Subma to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240 P.O. Box 2088 Santa Fe, New Mexico 87504-2088

OIL CONSERVATION DIVISION

5. Indicate Type of Lease FEE Y STATE 6. Size Oil & Gas Lesse No.

WELL API NO.

DISTRICT II P.O. Drawer DD, Arlesia, NM 88210

DIS 100

TRICT III			
O Rio Brazos Rd., Aziec, NM 87410		(//////	
WELL COMPLETION OR RECOI	MPLETION REPORT AND LOG	7/////	

1000 Rio Brazos Rd., Aziec, N	47M 87410						7777777		7777777:
WELL COM	PLETION OR RE	COMPLETIC	ON REPORT	AND LOG					
12. Type of Well: OIL WELL		DRY OT			^{7.}	Lease Name	_		1
b. Type of Completion:						SONCO	DISPOSA	TT.	
NEW WORK WELL X OVER	DEEPEN BACK	DIFF RESV	я 🗌 отнея _			117 11 37	· 		
2. Name of Operator			•		8	Well No.	•-		
	OIL & GAS COL	TPANY			<u></u>	. Pool name or	≢] rWildcat		
3. Address of Operator									
	H TUCKER,	FARMINGTO	N, NM 8	7401		FLORA VI	STA MI	SA VER	DE
4. Weil Location Unit LetterE	: <u>1595</u> _{F∞}	From The	NORTH	Line and	1005	Feet Fro	om The	EST	Line
	^	vnship 291	N Ran	ge 12W	NM	PM SA	N JUAN		County
10. Date Spudded 11. D	late T.D. Reached	12. Date Comp	i. (Ready to Prod			RKB, RT, GR	, esc.) 14.	Elev. Casing	yhead
01-28-92				/ ! 5	859 GR.			5864 able Tools	
	16. Plug Back T.D.	17.	If Multiple Comp Many Zones?	si. How 1	8. Intervals Dulled By	Rotary Tools	10	rose toors	
4760		<u> </u>	1			1 . A	l. Was Direction	anal Survey l	Made
19. Producing Interval(s), of the	his completion - Top, I	Bottom, Name				. 2		Jan 34179) .	
	,					22. Was Wel	YES		
21. Type Electric and Other L DUET, INDUCT	ogs Rum ION & FORMAT	ION DENSI	TY	·	·	-	10		<u> </u>
23.		ASING REC	CORD (Ret	ort all strin	gs set in v	vell)			
CASING STATE	WEIGHT LB/FT.			HOLE SIZE	CEN	JENTING RI		AMOUR	T PULLED
CASING SIZE 8-5/8	24.0	209		12-1/4		sc Class		1 0	
5-1/2	15.50	4760		7-7/8	lst s	tage 230	$0 \times 65/3$	5	
J-1/2					& 265	Class I	3 Tail.	. 0	
					2nd s	tage 46	5sx $65/3$	5	
						x "B" T		OPP	
24.	LI	VER RECORI	D				BING REC		
SIZE	TOP	BOTTOM :	SACKS CEMEN	T SCREE		SIZE	DEPTH :		ACXER SE
						2-7/8	4300	<u> </u>	4300
					TD CTIOT	FRACTUR	E CEMEN	T SOLIE	ZE. ETC.
26. Perforation record	(interval, size, and	i number)		DEPTH 1	NTERVAL	AMOU	NT AND KIN	D MATERI	AL USED
_									
4350-4460 25	spt .46 220			-					
			PRODUCT	ION					
23. Date First Production	Produ	ction Method (Flo	owing, gas lift, pi	emping - Size and	type pump)		Well Stat	us (Prod. or	Skm-m)
02-24-92	1	ABBING						r-IN	s - Oil Ratio
Date of Test	Hours Tested	Choke Size	Prod'n For	Oil - Bbi.	Gas - N		Water - Bbl.		U/FT/BI
02-24-92	24	2"	Test Period	TR.			164.99	vity - API - (
	Casing Pressure	Calculated 24	Oil - Bbi.	Gas - M		Valer - Bbl.		-	
0	315	Hour Rate	n of t			164.99	Witnessed By	MEASURE	<u></u>
29. Disposition of Gas (Solo	i, used for fuel, versed,	esc.)	IX #			leg ,		יש דיש ת	CF
VENTED			<i>III</i>		<u>_U</u> _		HAKUL	D ELLEI	/\fi
30. List Amonments			FEB	281992					
Į.	TEST				era to the he	a of my brow	ledge and be	lief	
PRODUCTION 31. I hereby certify that t	he information show	n on both sides	of A late	UN: "DI	V.	_ c,,		•	
	111 . / .		Printed RON	IST. 3			ያል ሶ ሞሮ ህ ሶ	D Data	02-28-
Signature KM	Maker		Name RON	MAHAN		Tille CONTI	VACTO MO	Lane.	

Submit to Appropriate District Office State Lease — 6 copies For Lease — 5 copies

State of New Mexico En., gy, Minerals and Natural Resources Departmen

Form C-101 Revised 1-1-89

OIL CONSERVATION DIVISION DISTRICT I P.O. Box 1980, Fobbs, NM \$8240

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

API NO. (assigned by OCD on New Wells)
30-045-24653	
5. Indicate Type of Lease	
STATE	FEE X

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

1.0, 5			· i	6 State Oil & Gas Lease N	√o .
DISTRICT III 1000 Rio Brazos Rd., Aztec,	NM 87410				
APPLICATI	ON FOR PERMIT TO	DRILL, DEEPEN, OF	R PLUG BACK		
12. Type of Work:	•			7. Lease Name or Unit Ag	reement Name
DRILL	X RE-ENTER	DEEPEN .	PLUG BACK		! :
b. Type of Well: OIL GAS WELL WELL	るい OTHER DISPOSA	SINGLE LL X ZONE	MULTIPLE ZONE	SUNCO DISPOSA	T.
2. Name of Operator COLEMAN OIL &	GAS COMPANY 4	138		8. Well No. #1 9. Pool name or Wildcat	76680
3. Address of Coerator 700 SOUTH TUC	XER, FARMING	CON, NM 874.01		1	ESA VERDE
4. Well Location Unit Lotter]	E : <u>1595</u> Feet Fro	on The NORTH	Line and100	5 Feet From The	WEST Line
Section	2 Towns	ip 29N Ran	ge 12W	NMPM SAN JUAN	County
				ornation	12 Rocary or C.T.
		10. Proposed Depth 4760	1	MESA VERDE	ROTARY
		////			Date Work will start
13. Elevations (Show whether 5859 GR.	er DF, RT, GR, auc.)	4. Kind & Status Plug. Bond	15. Drilling Contractor BIG "A" WEL.		-28-92
17.	PR	OPOSED CASING AN	ID CEMENT PROGE	MAF	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	
	8-5/8	24.0	200	200	SURFACE
12-1/4	5-1/2	15,50	4760	900	SURFACE
7-7/8	<u> </u>				}
	<u> </u>				

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.



	FEB2 8 1992	
APPROVAL EXPIRES 9-5-92 UNLESS DRILLING IS COMMENCED. SPUD NOTICE MUST BE SUBMITTED	OIL CON. DIV	
WITHIN 10 DAYS. IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR P ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY. Thereby certify that the information playing true and gomplete to the best of my knowledge and belief		NE AND PROPOSED NEW PRODUCTIVE
SKNATURE	CONTRACTS MANAGER	DATE02/28/92
TYPE OR PRINT NAME RON MAHAN (This space for State Use)	TALL INCORPORATION DIST #3	MAR 0 5 199

CONDITIONS OF APPROVAL, IF ANY:

Ŋ

envelope ō

9

₩

28 Form 3800, April 1995

Receipt Showing to Whom

Dato, & Addressee's Address rOTAL Postage & Fees

Return Receipt Showing Whom & Date Delivered

Restricted Delivery Fee

Special Delivery Fee

Certified Fee

SENDER: I also wish to receive the ■ Complete items 1 and/or 2 for additional services.
■ Complete items 3, 4a, and 4b,
■ Print your name and address on the reverse of this form so that we can return this following services (for an extra fee): Recelpt Service card to you.

Attach this form to the front of the mailpiece, or on the back if space does not 1. Addressee's Address permit.

Write "Return Receipt Requested" on the mailpiece below the article number.

The Return Receipt will show to whom the article was delivered and the date delivered. 2. Restricted Delivery Consult postmaster for fee. 4a. Article Number 3. Article Addressed to: P 553 308 258 using Return Merrion OI1 & Gas 4b. Service Type P.O. Box 840 x☐ Certified ☐ Registered Farmington NM 87499 ☐ Insured ☐ Express Mail ☐ Return Receipt for Merchandise ☐ COD 7. Date of Delivery Thank you 8. Addressee's Address (Only if requested 5. Received By: (Print Name) and fee is paid) 6. Signature: (Addressee or Agent) Domestic Return Receipt PS Form 3811, December 1994

is your RETURN ADDRESS completed on the reverse side?

Do not use for International Mail (See reverse)

Ga

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Oil

Sentio Merrion

840

Street & Number BOX

Pos NW e. 8 7.4 99 Code

₩

Postage

Receipt for Certified Mail

JS Postal Service

No Insurance Coverage Provided.

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J ..ru

Ø

CERTIFIED

the right of the return address

PS Form 3800, April 1995 P9 Return Receipt Showing to Whom & Date Delivered Return Receipt Showing to Whom, Late, & Addressee's Address No insurance Coverage Provided.
Do not use for international Mail (See reverse).
Smilling in initial OI1 Politice \$7499 Code Street & Number Postago Special Delivery Fee Certified Fee Postmark or Date TOTAL Poslage & Fees Restricted Delivery Fee 49 8

US Postal Service

Receipt for Certified Mail

the reverse side	SENDER: Complete items 1 and/or 2 for additional services. Complete items 3, 4a, and 4b. Print your name and address on the reverse of this form so that we card to you. Attach this form to the front of the mailpiece, or on the back if space permit. Write 'Return Receipt Requested' on the mailpiece below the article the Return Receipt will show to whom the article was delivered and delivered.	e does not e number. d the date	I also wish to rece following services extra fee): 1. Addresse 2. Restricte Consult postmast	ee's Address
o p	3. Article Addressed to:	4a. Article N		n e
completed on	Meridian Oil Company P.O. BOx 4289	P 553 308 259		5
du		4b. Service Type		
ö	F.O. DOX 4203	☐ Registered		₩ Certified
	Farmington NM 87499	☐ Express Mail ☐ Insured ☐ Return Receipt for Merchandise ☐ COD		
ADDRESS	_			
		7. Date of D	elivery	
- 1				Ş
RETURN	5. Received By: (Print Name)	8. Addresse and fee is	e's Address (Only s paid)	Contified Insured CoD
your E	6. Signature: (Addressee or Agent) X			D
<u>s</u>	PS Form 3811 , December 1994		Domestic Ret	urn Heceipt

Merrion Oil & Gas P.O. Box 840 Farmington NM 87499 Phone: 505-327-9801

May 3,1996

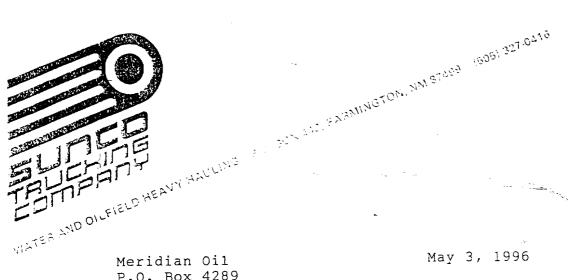
Gentleman:

Reference: Reclassification of Sunco SWD.

Sunco Trucking is in the process of applying for a new classification from Class II to Class I disposal to accept only RCRA exempt non-hazardous oil and gas wastes. The attached is a copy of that application.

Thank You,

Chuck Badsgard Vice-President of Sunco Trucking



Meridian Oil P.O. Box 4289 Farmington NM 87499 Phone: 505-326-9700

Gentleman:

Reference: -Reclassification of Sunco SWD.

Sunco Trucking is in the process of applying for a new classification from Class II to Class I disposal to accept only RCRA exempt non-hazardous oil and gas wastes. The attached is a copy of that application.

Thank You,

Chuck Badsguard Vice-President of Sunco Trucking

STATE OF NEW MEXICO

ONE-WELL PLUGGING BOND

For Chaves, Eddy, Lea, McKinley, Rio Arriba, Roosevelt. Sandoval, and San Juan Counties <u>Only</u>

BOND NO. 112723755
AMOUNT OF BOND \$17.800.00
COUNTY SAN JUAN
NOTE: For wells less than 5,000 feet deep, the minimum bond is \$5,000.00 ⁴ For wells 5,000 to 10,000 feet deep, the minimum bond is \$7,500.00 ⁴ For wells more than 10,000 feet deep, the minimum bond is \$10,000.00
*Under certain conditions, a well being drilled under a \$5,000.00 or \$7,500 bond may be permitted to be drilled as much as 500 feet deeper than the normal maximum depth, i.e., a well being drilled under a \$5,000.00 bond may be permitted to go to 5,500 feet, and a well being drilled under a \$7,500.00 bond may be permitted to go to 10,500 feet. (See Rule 191)
Fire with Oil Conservation Division, 2040 South Pacheco, Santa Fe, NM 87505
know all men by these presents:
That KEY FOUR CORNERS. INC. DRA BIG A WELL SERVICEAn individual) (a pertnership) (a corporation organized SUNCO TRUCKING in the State of NEW MEXICO , with its principal office in the city of FARMINGTON , State of MEN MEXICO
in the State of NEW MEXICO with its principal dirice in the Case of New Mexico), as PRINCIPAL, and UNITED PACIFIC INSURANCE
COMPANY a corporation organized and solsting under the laws of the State of PENNSYLVANIA and authorized to do business in the State of New Mexico, as SURETY, are held family bound unto the State of New Mexico, for the use and benefit of the Oil Conservation Division of New Mexico pursuant to Section 70-2-12, New Mexico Statutes Annotated, 1978 and benefit of the Oil Conservation Division of New Mexico pursuant to Section 70-2-12, New Mexico Statutes Annotated, 1978 Compilation, as amended, in the sum of \$17,800.00 Dollars is wful money of the United States, for the payment of which, well and truly to be made, said PRINCIPAL and SURETY hereby bind themselves, their successors and assigns, jointly and severally, firmly by these presents.
The conditions of this obligation are such that:
WHEREAS, The above principal has heretofore or may hereafter enter into oil and gas lease, or carbon dioxide (CO2) gas leases, or helium gas leases or brine mineral leases with the State of New Mexico; and
WHEREAS, The above principal has heretofore or may bereafter eater into oil and gas leases, or carbon dioxide (CO2) gas leases, or helium gas leases or brine mineral leases on lands patented by the United States of America to private individuals, and on lands otherwise owned by private individuals; and
WHEREAS, The above principal, individually, or in association with one or more other parties, has commenced or may commence the drilling of one well not to exceed a depth of 4999 feet, to prospect for and produce oil or gas, or carbon dioxide (CO2) gas or helium gas, or brine minerals, or does own or may sequire, own or operate such well, or such well started by others on land embraced in and State oil and gas leases, or carbon dioxide (CO2) leases, or helium gas leases, or brine mineral leases, and on land patented by the United States of America to private individuals, and on land otherwise owned by private individuals, the identification and location
1595 PT FROM BORNALLINE & 1005 PT FROM WEST Spring DISPOSAL WELL #1 Spring DISPOSAL WELL #1 Spring DISPOSAL WELL #1
(Here state exact legal footage description and name of well) Range 12 W (Rast) (Wast) N.M.P.M., SAR JUAN County, New Mexico.
NOW, THEREFORE, If the above bounden principal and surety or either of them or their successors or sasigns, or any of them, shall plug said wall when dry or when shandoned in accordance with the rules, regulations, and orders of the Oil Conservation Division of New Mexico in such way as to confine the oil, gas, brine and water in the strata in which they are found, and to prevent them from escaping into other strata;
THEN THEREPORE, This obligation shall be sull and void; otherwise and in default of complete compliance with any and all of said obligations, the same shall remain in full force and affect.