3R - 249

REPORTS

DATE:
1985

STATE OF NEW MEXICO
ENVIRONMENT

SCIENTIFIC LABORATORY DIVISION
[redacted]nino de Salud NE
Albuquerque, NM 87106 841-2570

85-1120-C

REPORT TO: DAVID G. BOYER
PLEASE PRINT
NEW MEXICO OIL CONSERVATION DIV.
P.O. BOX 2088
SANTA FE, NM 87501
PHONE(S): 827-5812

S.L.D. No.: OR-1120
DATE REC.: 10/29/85
SLD PRIORITY #: 3

USER CODE: 8 2 2 3 5
SUBMITTER: D. G. Boyer
SUBMITTER CODE:
SAMPLE TYPE: WATER ☒, SOIL ☐, OTHER
SAMPLE TYPE CODE:
COLLECTED: 85/10/25 (DATE) -13:55 (TIME) BY DGB (INITIALS)
CODE: Y Y M M D D H H M M I I I
SOURCE: Manana Mary Wheeler Pit produced Water
CODE: AQUIFER DEPTH
NEAREST CITY: Flora Vista
CODE: (Formation Basin Fruitland)
LOCATION: Municipal Well Field
CODE: TOWNSHIP RANGE SECTION TRACTS

pH=_____; Conductivity=_____umho/cm at _____°C; Chlorine Residual=_____
Dissolved Oxygen=_____mg/l; Alkalinity=_____; Flow Rate=_____
Sampling Location, Methods and Remarks (i.e. odors, etc.)
Sample from Fiberglass Pit at Separator at Mary Wheeler #1E Gas well. Pit 1/3 Full (Volume lowered by pumper on AM). Witnessed by Ray Penrod FOWLD

I certify that the statements in this block accurately reflect the results of my field analyses, observations and activities. DGBoyer / R Penrod
Method of shipment to the Laboratory Hand carried
This form accompanies 2 Septum Vials, ___ Glass Jugs, ___ _____
Containers are marked as follows to indicate preservation:
☐ NP: No preservation; sample stored at room temperature.
☒ P-Ice Sample stored in an ice bath (not frozen).
☐ P-$Na_2S_2O_3$; Sample preserved with $Na_2S_2O_3$ to remove chlorine residual.

I (we) certify that this sample was transferred from D. G. Boyer
to R. F. Meyerhein at (location) SLD Specimen Receiving on
85/10/29-14:30 (DATE AND TIME) and that the statements in this block are correct.
Evidentiary Seals: Not Sealed ☐ Seals Intact: Yes ☒ No ☐
Signatures DGBoyer R Meyerhein

(we) certify that this sample was transferred from _____
to _____ at (location) _____ on
___/___/___-___:___ (DATE AND TIME) and that the statements in this block are correct.
Evidentiary Seals: Not Sealed ☐ Seals Intact: Yes ☐ No ☐
Signatures _____ _____

ANALYSES REQUESTED

LAB. No.: ORG- 1120

PLEASE CHECK THE APPROPRIATE BOXES BELOW TO INDICATE THE TYPE OF ANALYTICAL SCREENS REQUIRED. WHENEVER POSSIBLE LIST SPECIFIC COMPOUNDS SUSPECTED OR REQUIRED.

QUALITATIVE	QUANTITATIVE	PURGEABLE SCREENS	QUALITATIVE	QUANTITATIVE	EXTRACTABLE SCREENS
		ALIPHATIC HYDROCARBON SCREEN			ALIPHATIC HYDROCARBONS
X	X	AROMATIC HYDROCARBON SCREEN			CHLORINATED HYDROCARBON PESTICIDES
X	X	HALOGENATED HYDROCARBON SCREEN			CHLOROPHENOXY ACID HERBICIDES
		GAS CHROMATOGRAPH/MASS SPECTROMETER			HYDROCARBON FUEL SCREEN
					ORGANOPHOSPHATE PESTICIDES
					POLYCHLORINATED BIPHENYLS (PCB's)
					POLYNUCLEAR AROMATIC HYDROCARBONS
					TRIAZINE HERBICIDES
		SPECIFIC COMPOUNDS			SPECIFIC COMPOUNDS

REMARKS:

ANALYTICAL RESULTS

COMPOUND	[PPB]	COMPOUND	[PPB]
benzene	8700		
Toluene	12000		
ethylbenzene	570		
p-xylene	1000		
m-Xylene	3000		
o-xylene	1200		
halo. purg. screen	none detected		
		* DETECTION LIMIT	100 ugm/l

REMARKS:

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes X NO ___. Seal(s) broken by: JM Tierney date: 29Oct85

I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements in this block and the analytical data on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 29Oct85. Analyst's signature: JM Tierney

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block. Reviewers signature: R Meyerhen

New Mexico Health and Environment Department
SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106 — (50[redacted]2555

pN

GENERAL WATER CHEMISTRY a[redacted]ITROGEN ANALYSIS

DATE RECEIVED 10 29 85	LAB NO. WC-4990	USER CODE ☐ 59300 ☐ 59600 ☒ OTHER: 82235	#1E
Collection DATE 85 10 25	SITE INFORM-ATION ►	Sample location Flora Vista - Manana Oil Mary Wheeler [illegible]	
Collection TIME 1355		Collection site description Sample from Separator Pit in Municipal well field. Pit is Fiberglass	
Collected by — Person/Agency: Boyer - Bailey / NES			

SEND FINAL REPORT TO ►

ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg, PO Box 2088
Santa Fe, NM 87501

Attn: David Boyer

Station/ well code

Owner

SAMPLING CONDITIONS

☐ Bailed ☐ Pump ☒ Dipped ☐ Tap	Water level	Discharge	Sample type Grab
pH (00400)	Conductivity (Uncorrected) µmho	Water Temp. (00010) °C	Conductivity at 25°C (00094) µmho

Field comments: Produced Water Sample, Pit 1/3 Full
Filtered

SAMPLE FIELD TREATMENT — *Check proper boxes*

No. of samples submitted 1 | ☐ NF: Whole sample (Non-filtered) | ☒ F: Filtered in field with 0.45 µmembrane filter | ☐ A: 2 ml H_2SO_4/L added

☒ NA: No acid added ☐ Other-*specify:*

ANALYTICAL RESULTS from SAMPLES

NF, NA		Units	Date analyzed
☒ Conductivity (Corrected) 25°C (00095)	49605	µmho	11/18/85
☐ Total non-filterable residue (suspended) (00530)		mg/l	
☒ Other: pH	8.01		12/3
☐ Other:			
☐ Other:			

F, NA		Units	Date analyzed
☒ Calcium (00915)	236	mg/l	11-8
☒ Magnesium (00925)	88.8	mg/l	"
☒ Sodium (00930)	13813.	mg/l	"
☒ Potassium (00935)	92.5	mg/l	"
☒ Bicarbonate (00440)	906.5	mg/l	12/3
☒ Chloride (00940)	21376.8	mg/l	12/9
☒ Sulfate (00945)	2749	mg/l	11/27
☒ Total filterable residue (dissolved) (70300)	36,530	mg/l	12/12
☒ Other: CO_3	0.0		

NF, A-H_2SO_4			
☐ Nitrate-N +, Nitrate-N total (00630)		mg/l	
☐ Ammonia-N total (00610)		mg/l	
☐ Total Kjeldahl-N ( )		mg/l	
☐ Chemical oxygen demand (00340)		mg/l	
☐ Total organic carbon ( )		mg/l	
☐ Other:			
☐ Other:			

F, A-H_2SO_4			
☐ Nitrate-N +, Nitrate-N dissolved (00631)		mg/l	
☐ Ammonia-N dissolved (00608)		mg/l	
☐ Total Kjeldahl-N ( )		mg/l	
☐ Other:			

Analyst	Date Reported	Reviewed by
	12 20 85	[signature]

Laboratory remarks

SLD 726 (12/84) *DISTRIBUTION:* **WHITE** — EID, GW&HW Bureau **CANARY** — WS System **PINK** — EID Local Office **GOLDENROD** — SLD

New Mexico Health and Environment Department
SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106 — (505) [redacted]555

N/N

GENERAL WATER CHEMISTRY and [redacted]TROGEN ANALYSIS

WC 4988
10/29/85

DATE RECEIVED 10 29 85	LAB NO. WC-4988	USER CODE ☐ 59300 ☐ 59600 ☒ OTHER: 82235	#1E
Collection DATE 10 25 85	SITE INFORM-ATION ►	Sample location Flora Vista - Manana Oil Mary Wheeler	
Collection TIME 1355		Collection site description Sample From Separator Pit in Municipal Well Field. Pit is Fiberglass	
Collected by — Person/Agency Boyer - Bailey / NCS			

SEND FINAL REPORT TO ►

ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg, PO Box 2088
Santa Fe, NM 87501

Attn: David Boyer

Station/ well code

Owner

SAMPLING CONDITIONS

☐ Bailed ☐ Pump ☒ Dipped ☐ Tap	Water level	Discharge	Sample type Grab
pH (00400)	Conductivity (Uncorrected) µmho	Water Temp. (00010) °C	Conductivity at 25°C (00094) µmho

Field comments Produced Water Sample, Pit 1/3 Full (Not Filtered)

SAMPLE FIELD TREATMENT — *Check proper boxes*

No. of samples submitted 1

☒ **NF:** Whole sample (Non-filtered) ☐ **F:** Filtered in field with 0.45 µmembrane filter ☐ **A:** 2 ml H_2SO_4/L added

☐ **NA:** No acid added ☐ Other-*specify:*

ANALYTICAL RESULTS from SAMPLES

NF, NA		Units	Date analyzed
☒ Conductivity (Corrected) 25°C (00095)	49516	µmho	11/18
☐ Total non-filterable residue (suspended) (00530)		mg/l	
☒ Other: pH	8.22		12/3
☐ Other:			
☐ Other:			

NF, A-H_2SO_4			
☐ Nitrate-N +, Nitrate-N total (00630)		mg/l	
☐ Ammonia-N total (00610)		mg/l	
☐ Total Kjeldahl-N ( )		mg/l	
☐ Chemical oxygen demand (00340)		mg/l	
☐ Total organic carbon ( )		mg/l	
☐ Other:			
☐ Other:			

F, NA NF		Units	Date analyzed
☒ Calcium (00915)	352	mg/l	11-8
☒ Magnesium (00925)	75.6	mg/l	11
☒ Sodium (00930)	680	mg/l	11
☒ Potassium (00935)	2.4	mg/l	11
☒ Bicarbonate (00440)	987	mg/l	1
☒ Chloride (00940)	19526.2	mg/l	12/9
☒ Sulfate (00945)	3683	mg/l	11/27
☒ Total filterable residue (dissolved) (70300)	36,790	mg/l	11/22
☒ Other: CO_3			

F, A-H_2SO_4			
☐ Nitrate-N +, Nitrate-N dissolved (00631)		mg/l	
☐ Ammonia-N dissolved (00608)		mg/l	
☐ Total Kjeldahl-N ( )		mg/l	
☐ Other:			

Analyst	Date Reported	Reviewed by
	12 3 85	

Laboratory remarks

SLD 726 (12/84) *DISTRIBUTION:* **WHITE** — EID, GW&HW Bureau **CANARY** — WS System **PINK** — EID Local Office **GOLDENROD** — SLD

New Mexico Health and Environment Department
SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106 — (505) [redacted]555

PF

GENERAL WATER CHEMISTRY and [redacted]TROGEN ANALYSIS

DATE RECEIVED 12 29 85	LAB NO. WC-4995	USER CODE ☐ 59300 ☐ 59600 ☒ OTHER: 82235	#1E
Collection DATE 12 5 85	SITE INFORMATION ►	Sample location Flora Vista - Manana Oil Mary Wheeler [illegible]	
Collection TIME 1355		Collection site description Sample From Separator Pit in Municipal Well Field. Pit is Fiberglass	
Collected by — Person/Agency Boyer - Bailey / NCS			

SEND FINAL REPORT TO ►
ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg., P.O. Box 2088
Santa Fe, NM 87501
Attn: David Boyer

JAN [illegible]
OIL CONSERVATION DIVISION
SANTA FE

Station/ well code
Owner

SAMPLING CONDITIONS

☐ Bailed ☒ Dipped ☐ Pump ☐ Tap	Water level	Discharge	Sample type Grab
pH (00400)	Conductivity (Uncorrected) µmho	Water Temp. (00010) °C	Conductivity at 25°C (00094) µmho

Field comments Produced water Sample, Pit 1/3 Full
Filtered

SAMPLE FIELD TREATMENT — *Check proper boxes*

No. of samples submitted 1

☐ **NF:** Whole sample (Non-filtered) ☒ **F:** Filtered in field with 0.45 µmembrane filter ☒ **A:** 2 ml H_2SO_4/L added

☐ **NA:** No acid added ☐ Other-*specify:*

ANALYTICAL RESULTS from SAMPLES

NF, NA	Units	Date analyzed
☐ Conductivity (Corrected) 25°C (00095)	µmho	
☐ Total non-filterable residue (suspended) (00530)	mg/l	
☐ Other:		
☐ Other:		
☐ Other:		

F, NA		Units	Date analyzed
☐ Calcium (00915)		mg/l	
☐ Magnesium (00925)		mg/l	
☐ Sodium (00930)		mg/l	
☐ Potassium (00935)		mg/l	
☐ Bicarbonate (00440)		mg/l	
☐ Chloride (00940)		mg/l	
☐ Sulfate (00945)		mg/l	
☐ Total filterable residue (dissolved) (70300)		mg/l	
☐ Other:			

NF, A-H_2SO_4

☐ Nitrate-N +, Nitrate-N total (00630)		mg/l	
☐ Ammonia-N total (00610)		mg/l	
☐ Total Kjeldahl-N ( )		mg/l	
☐ Chemical oxygen demand (00340)		mg/l	
☐ Total organic carbon ( )		mg/l	
☐ Other:			
☐ Other:			

F, A-H_2SO_4

☒ Nitrate-N +, Nitrate-N dissolved (00631)	0.098	mg/l	11/8
☒ Ammonia-N dissolved (00608)	17.4	mg/l	11/14
☒ Total Kjeldahl-N ( )	23.75	mg/l	12/17
☐ Other:			

Analyst	Date Reported	Reviewed by
	12 20 85	[illegible]

Laboratory remarks

SLD 726 (12/84) *DISTRIBUTION:* **WHITE** — EID, GW&HW Bureau **CANARY** — WS System **PINK** — EID Local Office **GOLDENROD** — SLD

New Mexico Health and Environment Department
SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106 — (505) [redacted]2555

P/M

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED	10 | 29 | 85	LAB NO.	WC-4994	USER CODE	☐ 59300 ☐ 59600 ☒ OTHER: 82235
Collection DATE	85 | 10 | 25	SITE INFORMATION ►		Sample location	Flora Vista - Monana Oil Mary Wheeler [redacted]
Collection TIME	1355			Collection site description	Sample From Separator Pit in Municipal Well Field. Pit is Fiberglass
Collected by — Person/Agency	Boyer-Bailey/NMOCD				

SEND FINAL REPORT TO ►

ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg, PO Box 2088
Santa Fe, NM 87501

Attn: David Boyer

Station/ well code

Owner

SAMPLING CONDITIONS

☐ Bailed ☒ Dipped ☐ Pump ☐ Tap	Water level	Discharge	Sample type: Grab
pH (00400)	Conductivity (Uncorrected) µmho	Water Temp. (00010) °C	Conductivity at 25°C (00094) µmho

Field comments: Produced Water Sample, Pit 1/3 Full (Not Filtered)

SAMPLE FIELD TREATMENT — *Check proper boxes*

No. of samples submitted: 1

☒ **NF:** Whole sample (Non-filtered) ☐ **F:** Filtered in field with 0.45 µmembrane filter ☒ **A:** 2 ml H_2SO_4/L added

☐ **NA:** No acid added ☐ Other-*specify:*

ANALYTICAL RESULTS from SAMPLES

NF, NA		Units	Date analyzed
☐ Conductivity (Corrected) 25°C (00095)		µmho	
☐ Total non-filterable residue (suspended) (00530)		mg/l	
☐ Other:			
☐ Other:			
☐ Other:			

F, NA		Units	Date analyzed
☐ Calcium (00915)		mg/l	
☐ Magnesium (00925)		mg/l	
☐ Sodium (00930)		mg/l	
☐ Potassium (00935)		mg/l	
☐ Bicarbonate (00440)		mg/l	
☐ Chloride (00940)		mg/l	
☐ Sulfate (00945)		mg/l	
☐ Total filterable residue (dissolved) (70300)		mg/l	
☐ Other:			

NF, A-H_2SO_4			
☒ Nitrate-N +, Nitrate-N total (00630)	0.095	mg/l	11/8
☒ Ammonia-N total (00610)	18.5	mg/l	11/14
☒ Total Kjeldahl-N ( )	4.36	mg/l	11/8
☐ Chemical oxygen demand (00340)		mg/l	
☐ Total organic carbon ( )		mg/l	
☐ Other:			
☐ Other:			

F, A-H_2SO_4		
☐ Nitrate-N +, Nitrate-N dissolved (00631)	mg/l	
☐ Ammonia-N dissolved (00608)	mg/l	
☐ Total Kjeldahl-N ( )	mg/l	
☐ Other:		

Analyst	Date Reported	Reviewed by
	11 | 20 | 85	[signature]

Laboratory remarks

SLD 726 (12/84) *DISTRIBUTION:* **WHITE** — EID, GW&HW Bureau **CANARY** — WS System **PINK** — EID Local Office **GOLDENROD** — SLD

New Mexico Health and Environment Department
SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106 — (505) -2555

PF Heavy Metal

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED 10 | 24 | 85	LAB NO. HM-1858	USER CODE ☐ 59300 ☐ 59600 ☒ OTHER: 82235	#1E
Collection DATE 85 | 10 | 25	SITE INFORM-ATION ►	Sample location Flora Vista - Manana Oil Mary Wheeler	
Collection TIME 1355		Collection site description Sample Foam Separator Pit in Municipal Well Field. Pit is Fiberglass	
Collected by — Person/Agency Boyer - Bailey / NCS			

SEND FINAL REPORT TO ►

ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg, PO Box 2088
Santa Fe, NM 87501

Attn: David Boyer

Station/ well code

Owner

SAMPLING CONDITIONS

☐ Bailed ☐ Pump ☒ Dipped ☐ Tap	Water level	Discharge	Sample type Grab
pH (00400)	Conductivity (Uncorrected) µmho	Water Temp. (00010) °C	Conductivity at 25°C (00094) µmho

Field comments Produced water Sample, Pit 1/3 Full Filtered

SAMPLE FIELD TREATMENT — *Check proper boxes*

No. of samples submitted 1

☐ **NF:** Whole sample (Non-filtered) ☒ **F:** Filtered in field with 0.45 µmembrane filter ~~☒~~ **A:** ~~2 ml H_2SO_4/L~~ added HNO_3

☐ **NA:** No acid added ☐ Other-*specify:*

ANALYTICAL RESULTS from SAMPLES

~~NF, NA~~ F - HNO_3	Units	Date analyzed
☐ Conductivity (Corrected) 25°C (00095)	µmho	
☐ Total non-filterable residue (suspended) (00530)	mg/l	
☒ Other: ICAP SCAN		
☐ Other:		
☐ Other:		

F, NA	Units	Date analyzed
☐ Calcium (00915)	mg/l	
☐ Magnesium (00925)	mg/l	
☐ Sodium (00930)	mg/l	
☐ Potassium (00935)	mg/l	
☐ Bicarbonate (00440)	mg/l	
☐ Chloride (00940)	mg/l	
☐ Sulfate (00945)	mg/l	
☐ Total filterable residue (dissolved) (70300)	mg/l	
☐ Other:		

NF, A-H_2SO_4		
☐ Nitrate-N +, Nitrate-N total (00630)	mg/l	
☐ Ammonia-N total (00610)	mg/l	
☐ Total Kjeldahl-N ( )	mg/l	
☐ Chemical oxygen demand (00340)	mg/l	
☐ Total organic carbon ( )	mg/l	
☐ Other:		
☐ Other:		

F, A-H_2SO_4		
☐ Nitrate-N +, Nitrate-N dissolved (00631)	mg/l	
☐ Ammonia-N dissolved (00608)	mg/l	
☐ Total Kjeldahl-N ( )	mg/l	
☐ Other:		

Analyst	Date Reported	Reviewed by
	12 | 9 | 85	

Laboratory remarks

SLD 726 (12/84) *DISTRIBUTION:* **WHITE** — EID, GW&HW Bureau **CANARY** — WS System **PINK** — EID Local Office **GOLDENROD** — SLD

ICAP -SCREEN

Lab Number: HM 1858

Sample Code: Flora Vista, Manganese Well

Date Submitted: 10/29/85

Date Reported: 12/9/85

By: Boyer/Bailey

By: Jim Ashby

Date Analyzed: 11/7/85

Determination	Concentration (µg/ml)
Aluminum	<0.1
Barium	<0.1
Beryllium	<0.1
Boron	1.9
Cadmium	<0.1
Calcium	405.
Chromium	<0.1
Cobalt	<0.1
Copper	<0.1
Iron	1.0
Lead	<0.1
Magnesium	71.Q
Manganese	0.19
Molybdenum	<0.1
Nickel	<0.1
Silicon	11.8
Silver	<0.1
Strontium	22.8
Tin	<0.1
Vanadium	<0.1
Yttrium	<0.1
Zinc	<0.1

ATOMIC ABSORPTION ANALYSES

Determination	Concentration (µg/ml)
Arsenic	0.021
Selenium	0.023
Mercury	

* Very hi Sodium also present.

New Mexico Health and Environment Department
SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106 — (505) [redacted]2555

pN Heavy Metal

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED 10 29 85	LAB NO. HM-1857	USER CODE ☐ 59300 ☐ 59600 ☒ OTHER: 82235	#1E
Collection DATE 85 10 25	SITE INFORM-ATION	Sample location Flora Vista - Manana Oil Mary Wheeler	
Collection TIME 1355		Collection site description Sample Foam Separator Pit in Municipal Well Field. Pit is Fiberglass	
Collected by — Person/Agency Boyer-Bailey/NCS			

SEND FINAL REPORT TO ►

ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg, PO Box 2088
Santa Fe, NM 87501

Attn: David Boyer

Station/ well code

Owner

SAMPLING CONDITIONS

☐ Bailed ☒ Dipped ☐ Pump ☐ Tap	Water level	Discharge	Sample type Grab
pH (00400)	Conductivity (Uncorrected) µmho	Water Temp. (00010) °C	Conductivity at 25°C (00094) µmho

Field comments: Produced water Sample, Pit 1/3 Full NOT Filtered

SAMPLE FIELD TREATMENT — *Check proper boxes*

No. of samples submitted: 1

☒ NF: Whole sample (Non-filtered) ☐ F: Filtered in field with 0.45 µmembrane filter ☒ A: ~~2 ml H_2SO_4/L~~ added HNO_3

☐ NA: No acid added ☐ Other-*specify:*

ANALYTICAL RESULTS from SAMPLES

NF, NA HNO_3	Units	Date analyzed
☐ Conductivity (Corrected) 25°C (00095)	µmho	
☐ Total non-filterable residue (suspended) (00530)	mg/l	
☒ Other: ICAP SCAN		
☐ Other:		
☐ Other:		

F, NA	Units	Date analyzed
☐ Calcium (00915)	mg/l	
☐ Magnesium (00925)	mg/l	
☐ Sodium (00930)	mg/l	
☐ Potassium (00935)	mg/l	
☐ Bicarbonate (00440)	mg/l	
☐ Chloride (00940)	mg/l	
☐ Sulfate (00945)	mg/l	
☐ Total filterable residue (dissolved) (70300)	mg/l	
☐ Other:		

NF, A-H_2SO_4	Units	Date analyzed
☐ Nitrate-N +, Nitrate-N total (00630)	mg/l	
☐ Ammonia-N total (00610)	mg/l	
☐ Total Kjeldahl-N ( )	mg/l	
☐ Chemical oxygen demand (00340)	mg/l	
☐ Total organic carbon ( )	mg/l	
☐ Other:		
☐ Other:		

F, A-H_2SO_4	Units	Date analyzed
☐ Nitrate-N +, Nitrate-N dissolved (00631)	mg/l	
☐ Ammonia-N dissolved (00608)	mg/l	
☐ Total Kjeldahl-N ( )	mg/l	
☐ Other:		

Analyst | Date Reported 12 13 85 | Reviewed by Jim Bailey

Laboratory remarks: Sample digested

SLD 726 (12/84) *DISTRIBUTION:* **WHITE** — EID, GW&HW Bureau **CANARY** — WS System **PINK** — EID Local Office **GOLDENROD** — SLD

Lab Number: HM[redacted]857 Sample [redacted]: Flora Vista Mañana Oil.

Date Submitted: 10/25/85 Date Analyzed: 12/12/85

By: Boyer/Bailey Reviewed By: Jim Ashby

Date Reported: 12/13/85

Element	ICAP VALUE(MG/L)	AA VALUE(MG/L)
Aluminum	<0.1	
Barium	<0.1	
Berylium	<0.1	
Boron	2.0	
Cadmium	<0.1	
Calcium	255.	
Chromium	<0.1	
Cobalt	<0.1	
Copper	<0.1	
Iron	2.1	
Lead	<0.1	
Magnesium	66.	
Manganese	0.17	
Molybdenum	<0.1	
Nickel	<0.1	
Silicon	3.0	
Silver	<0.1	
Strontium	25.	
Tin	<0.1	
Vanadium	<0.1	
Zinc	<0.1	
Arsenic		0.022
Selenium		0.022
Mercury		

STATE OF NEW MEXICO
ENVIRONMENT

SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106 841-2570

85-0970-C

S.L.D. No.: OR- 970-H,B
DATE REC. : 9/18/85
SLD PRIORITY #: III

REPORT TO: DAVID G. BOYER
PLEASE PRINT
NEW MEXICO OIL CONSERVATION DIV.
P.O. BOX 2088
SANTA FE, NM 87501
PHONE(S): 827-5812

USER CODE: 8 2 2 3 5

SUBMITTER: David Boyer

SUBMITTER CODE:

SAMPLE TYPE: WATER ☒, SOIL ☐, OTHER

SAMPLE TYPE CODE:

COLLECTED: 85/09/12 - 15:05 BY DGB
DATE TIME INITIALS

CODE: 8 5 0 9 1 2 1 5 0 5 [illegible] [illegible]
Y Y M M D D H H M M I I I

SOURCE: Montana Oil - Mary Wheeler well

CODE:
AQUIFER DEPTH

NEAREST CITY: Flora Vista

CODE:

LOCATION: Gas well near city supply

CODE:
TOWNSHIP RANGE SECTION TRACTS

pH= ~ ; Conductivity= 26500 umho/cm at 23.5 °C; Chlorine Residual= ~

Dissolved Oxygen= ~ mg/l; Alkalinity= ~ ; Flow Rate= ~

Sampling Location, Methods and Remarks (i.e. odors, etc.)

Sample from Separator pit (green fiberglass tank)
Seperator dumps frequently, 1/4 - 1/2" oil on surface
Produced water sample. Pit nearly full.

I certify that the statements in this block accurately reflect the results of my field analyses, observations and activities. D G Boyer

Method of shipment to the Laboratory Hand Carried

This form accompanies 2 Septum Vials, ___ Glass Jugs, ___

Containers are marked as follows to indicate preservation:

- ☐ NP: No preservation; sample stored at room temperature.
- ☒ P-Ice Sample stored in an ice bath (not frozen).
- ☐ P-$Na_2S_2O_3$; Sample preserved with $Na_2S_2O_3$ to remove chlorine residual.

I (we) certify that this sample was transferred from _____

to _____ at (location) _____ on

___/___/___ - ___ : ___ and that the statements in this block are correct.
DATE AND TIME

Evidentiary Seals: Not Sealed ☐ Seals Intact: Yes ☐ No ☐

Signatures _____ _____

(we) certify that this sample was transferred from _____

to _____ at (location) _____ on

___/___/___ - ___ : ___ and that the statements in this block are correct.
DATE AND TIME

Evidentiary Seals: Not Sealed ☐ Seals Intact: Yes ☐ No ☐

Signatures _____ _____

ANALYSES REQUESTED

LAB. No.: ORG- 970

PLEASE CHECK THE APPROPRIATE BOXES BELOW TO INDICATE THE TYPE OF ANALYTICAL SCREENS REQUIRED. WHENEVER POSSIBLE LIST SPECIFIC COMPOUNDS SUSPECTED OR REQUIRED.

QUALITATIVE	QUANTITATIVE	PURGEABLE SCREENS	QUALITATIVE	QUANTITATIVE	EXTRACTABLE SCREENS
		ALIPHATIC HYDROCARBON SCREEN			ALIPHATIC HYDROCARBONS
X	X	AROMATIC HYDROCARBON SCREEN			CHLORINATED HYDROCARBON PESTICIDES
X	X	HALOGENATED HYDROCARBON SCREEN			CHLOROPHENOXY ACID HERBICIDES
		GAS CHROMATOGRAPH/MASS SPECTROMETER			HYDROCARBON FUEL SCREEN
					ORGANOPHOSPHATE PESTICIDES
					POLYCHLORINATED BIPHENYLS (PCB's)
					POLYNUCLEAR AROMATIC HYDROCARBONS
					TRIAZINE HERBICIDES
		SPECIFIC COMPOUNDS			SPECIFIC COMPOUNDS
		Benzenes, etc.			

REMARKS:

ANALYTICAL RESULTS

COMPOUND	[PPB]	COMPOUND	[PPB]
Halo. purgeable screen	none detected		
benzene	16000		
Toluene	20000		
ethyl-benzene	630		
p-xylene	1200		
m-xylene	3800		
o-xylene	1300		
		* DETECTION LIMIT	10 ug/m/l

REMARKS: Six other compounds also detected by aromatic screen that were not identified.

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes ___ NO X. Seal(s) broken by: _____ date: _____

I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements in this block and the analytical data on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 19 Sept 85. Analyst's signature: G. Zimney

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block. Reviewers signature: K Meyer Lee

New Mexico Health and Environment Department
SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106 — (505) 841-2555

~~AA~~ AN

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED: 9 / 18 / 85	LAB NO. WC-4649	USER CODE ☐ 59300 ☐ 59600 ☒ OTHER: 82235	
Collection DATE: 85 / 09 / 12	SITE INFORMATION ►	Sample location: Montana Oil Co, Mary Wheeler well	
Collection TIME: 15,05		Collection site description: Gas well at Plaza Vista, Sample from produced water separator pit	
Collected by — Person/Agency: BC-JR / DCB			

SEND FINAL REPORT TO ►

ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg, PO Box 2088
Santa Fe, NM 87501

Attn: David Boyer

Station/ well code:

Owner:

SAMPLING CONDITIONS

☐ Bailed ☒ Dipped ☐ Pump ☐ Tap	Water level: —	Discharge: —	Sample type: Grab
pH (00400): —	Conductivity (Uncorrected): 26500 µmho	Water Temp. (00010): 23.5 °C	Conductivity at 25°C (00094): — µmho

Field comments: Pit nearly full, separator dumps frequently. Thin layer of oil on surface

SAMPLE FIELD TREATMENT — *Check proper boxes*

No. of samples submitted: 1

☐ **NF:** Whole sample (Non-filtered) ☒ **F:** Filtered in field with 0.45 µmembrane filter ☐ **A:** 2 ml H_2SO_4/L added

☒ **NA:** No acid added ☐ Other-*specify:*

ANALYTICAL RESULTS from SAMPLES

F, NA		Units	Date analyzed
☒ Conductivity (Corrected) 25°C (00095)	40,000	µmho	10/10
☐ Total non-filterable residue (suspended) (00530)		mg/l	
☒ Other: pH	7.6		12/7
☐ Other:			
☐ Other:			

NF, A-H_2SO_4			
☐ Nitrate-N +, Nitrate-N total (00630)		mg/l	
☐ Ammonia-N total (00610)		mg/l	
☐ Total Kjeldahl-N ( )		mg/l	
☐ Chemical oxygen demand (00340)		mg/l	
☐ Total organic carbon ( )		mg/l	
☐ Other:			
☐ Other:			

F, NA		Units	Date analyzed
☒ Calcium (00915)	236.0	mg/l	11-4
☒ Magnesium (00925)	80.5	mg/l	11-4
☒ Sodium (00930)	11523.0	mg/l	11-4
☒ Potassium (00935)	850.0	mg/l	11-4
☒ Bicarbonate (00440)	888.3	mg/l	12/2
☒ Chloride (00940)	19.381	mg/l	10/23
☒ Sulfate (00945)	3248	mg/l	10/31
☒ Total filterable residue (dissolved) (70300)	34755	mg/l	11/19
☒ Other: CO_3	6.0		12/2
☒ F	0.51		10/25

F, A-H_2SO_4			
☐ Nitrate-N +, Nitrate-N dissolved (00631)		mg/l	
☐ Ammonia-N dissolved (00608)		mg/l	
☐ Total Kjeldahl-N ( )		mg/l	
☐ Other:			

Analyst: CN | Date Reported: 11 / 26 / 85 | Reviewed by: CD

Laboratory remarks:

SLD 726 (12/84) *DISTRIBUTION:* **WHITE** — EID, GW&HW Bureau **CANARY** — WS System **PINK** — EID Local Office **GOLDENROD** — SLD

New Mexico Health and Environment Department
SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106 — (505) 841-2555

PF

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED 9 18 85	LAB NO. WC-4154	USER CODE ☐ 59300 ☐ 59600 ☒ OTHER: 82235	
Collection DATE 85 09 12	SITE INFORM-ATION	Sample location Manana Oil Co, Mary Wheeler well	
Collection TIME 12 00		Collection site description Gas well at Flora Vista, Sample from produced water separator pit	
Collected by - Person/Agency Jerry/DCS			

SEND FINAL REPORT TO ►
ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg.
Santa Fe, NM 87501
Attn: David Boyer

RECEIVED
NOV 08 1985
OIL CONSERVATION DIVISION
SANTA FE

Station/ well code

Owner

SAMPLING CONDITIONS

☐ Bailed ☒ Dipped ☐ Pump ☐ Tap	Water level —	Discharge —	Sample type Grab
pH (00400) —	Conductivity (Uncorrected) 26500 µmho	Water Temp. (00010) 23.5 °C	Conductivity at 25°C (00094) — µmho

Field comments: Pit nearly full, separator dumps frequently. This layer is on surface

SAMPLE FIELD TREATMENT — *Check proper boxes*

No. of samples submitted 1

☐ **NF:** Whole sample (Non-filtered) ☒ **F:** Filtered in field with 0.45 µmembrane filter ☒ **A:** 2 ml H_2SO_4/L added

☐ **NA:** No acid added ☐ Other-*specify:*

ANALYTICAL RESULTS from SAMPLES

NF, NA	Units	Date analyzed
☐ Conductivity (Corrected) 25°C (00095)	µmho	
☐ Total non-filterable residue (suspended) (00530)	mg/l	
☐ Other:		
☐ Other:		
☐ Other:		

F, NA		Units	Date analyzed
☐ Calcium (00915)		mg/l	
☐ Magnesium (00925)		mg/l	
☐ Sodium (00930)		mg/l	
☐ Potassium (00935)		mg/l	
☐ Bicarbonate (00440)		mg/l	
☐ Chloride (00940)		mg/l	
☐ Sulfate (00945)		mg/l	
☐ Total filterable residue (dissolved) (70300)		mg/l	
☐ Other:			

NF, A-H_2SO_4			
☐ Nitrate-N + Nitrate-N total (00630)		mg/l	
☐ Ammonia-N total (00610)		mg/l	
☐ Total Kjeldahl-N ( )		mg/l	
☐ Chemical oxygen demand (00340)		mg/l	
☐ Total organic carbon ( )		mg/l	
☐ Other:			
☐ Other:			

F, A-H_2SO_4			
☒ Nitrate-N +, Nitrate-N dissolved (00631)	20.04	mg/l	10/28
☒ Ammonia-N dissolved (00608)	15.7	mg/l	10/17
☒ Total Kjeldahl-N ( )	17.7	mg/l	9/25
☐ Other:			

Analyst | Date Reported 10 28 85 | Reviewed by Dean

Laboratory remarks

SLD 726 (12/84) *DISTRIBUTION:* **WHITE** — EID, GW&HW Bureau **CANARY** — WS System **PINK** — EID Local Office **GOLDENROD** — SLD

New Mexico Health and Environment Department
SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106 — (505) 841-2555

PF

Heavy Metal - Acid Field

~~GENERAL WATER CHEMISTRY and NITROGEN~~ ANALYSIS

DATE RECEIVED 9 | 18 | 85	LAB NO. HM-1681	USER CODE ☐ 59300 ☐ 59600 ☒ OTHER: 82235	
Collection DATE 85 | 09 | 12	SITE INFORM-ATION	Sample location Morena Oil Co. Mary Wheeler well	
Collection TIME 1200		Collection site description Gas well at Flora Vista, Sample from produced water separator pit	
Collected by — Person/Agency Boyer / OCD			

SEND FINAL REPORT TO ►
ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg, PO Box 2088
Santa Fe, NM 87501
Attn: David Boyer

Station/ well code

Owner

Sample filtered by ocd

SAMPLING CONDITIONS

☐ Bailed ☒ Dipped ☐ Pump ☐ Tap	Water level —	Discharge —	Sample type Grab
pH (00400) —	Conductivity (Uncorrected) 26500 µmho	Water Temp. (00010) 23.5 °C	Conductivity at 25°C (00094) — µmho

Field comments: Pit nearly full, separator dumps frequently
Thin layer of oil on surface

SAMPLE FIELD TREATMENT — *Check proper boxes*

No. of samples submitted 1

☐ NF: Whole sample (Non-filtered) ☒ F: Filtered in field with 0.45 µmembrane filter ☒ A: ~~2 ml H_2SO_4/L~~ added 5 ml HNO_3

☐ NA: No acid added ☐ Other-*specify:*

ANALYTICAL RESULTS from SAMPLES

F, A HNO_3	Units	Date analyzed
☐ Conductivity (Corrected) 25°C (00095)	µmho	
☐ Total non-filterable residue (suspended) (00530)	mg/l	
☒ Other: ICAP-SCAN		
☐ Other:		
☐ Other:		

F, NA	Units	Date analyzed
☐ Calcium (00915)	mg/l	
☐ Magnesium (00925)	mg/l	
☐ Sodium (00930)	mg/l	
☐ Potassium (00935)	mg/l	
☐ Bicarbonate (00440)	mg/l	
☐ Chloride (00940)	mg/l	
☐ Sulfate (00945)	mg/l	
☐ Total filterable residue (dissolved) (70300)	mg/l	
☐ Other:		

NF, A-H_2SO_4	Units	Date analyzed
☐ Nitrate-N +, Nitrate-N total (00630)	mg/l	
☐ Ammonia-N total (00610)	mg/l	
☐ Total Kjeldahl-N ( )	mg/l	
☐ Chemical oxygen demand (00340)	mg/l	
☐ Total organic carbon ( )	mg/l	
☐ Other:		
☐ Other:		

F, A-H_2SO_4	Units	Date analyzed
☐ Nitrate-N +, Nitrate-N dissolved (00631)	mg/l	
☐ Ammonia-N dissolved (00608)	mg/l	
☐ Total Kjeldahl-N ( )	mg/l	
☐ Other:		

Analyst | Date Reported 9 \| 23 \| 81 | Reviewed by J. F. Ashley

Laboratory remarks

ICAP -SCREEN

Lab Number: HM 1681

Date Submitted: 9/18/85

By: Boyer

Sample Code: Mary Wheeler Well

Date Reported: 9/23/85

By: Jim Ashley

Date analyzed: 9/23/85

Determination	Concentration (µg/ml)
Aluminum	<0.1
Barium	<0.1
Beryllium	<0.1
Boron	1.6
Cadmium	<0.1
Calcium	220.
Chromium	<0.1
Cobalt	<0.1
Copper	<0.1
Iron	<0.1
Lead	<0.1
Magnesium	65.
Manganese	0.2
Molybdenum	<0.1
Nickel	<0.1
Silicon	11.
Silver	<0.1
Strontium	21.
Tin	<0.1
Vanadium	<0.1
Yttrium	<0.1
Zinc	<0.1

* Very high Sodium present.

New Mexico Health and Environment Department
SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106 — (505) 841-2555

PN
pN

Heavy Metal - No Acid

~~GENERAL WATER CHEMISTRY~~ and ~~NITROGEN~~ ANALYSIS

DATE RECEIVED 9 | 18 | 85	LAB NO. HM-1684	USER CODE ☐ 59300 ☐ 59600 ☒ OTHER: 82235	
Collection DATE 85 | 09 | 12	SITE INFORM-ATION ►	Sample location Manana Oil Co, Mary Wheeler well	
Collection TIME 1505		Collection site description Gas well at Flora Vista, Sample from produced water separator pit	
Collected by — Person/Agency Boyer / DCB			

SEND FINAL REPORT TO ►
ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg, PO Box 2088
Santa Fe, NM 87501
Attn: David Boyer

Station/ well code
Owner

SAMPLING CONDITIONS

Sample not filtered by DCB

☐ Bailed ☐ Pump ☒ Dipped ☐ Tap	Water level —	Discharge —	Sample type Grab
pH (00400) —	Conductivity (Uncorrected) 26500 µmho	Water Temp. (00010) 23.5 °C	Conductivity at 25°C (00094) — µmho

Field comments: Pit nearly full, separator dumps frequently. Thin layer of oil on surface

SAMPLE FIELD TREATMENT — *Check proper boxes*

No. of samples submitted: 1

☒ NF: Whole sample (Non-filtered) ☒ F: Filtered in field with 0.45 µmembrane filter ☐ A: 2 ml H_2SO_4/L added

☒ NA: No acid added ☐ Other-*specify:*

ANALYTICAL RESULTS from SAMPLES

NF, NA	Units	Date analyzed
☐ Conductivity (Corrected) 25°C (00095)	µmho	
☐ Total non-filterable residue (suspended) (00530)	mg/l	
☒ Other: ICAP SCAN		
☐ Other:		
☐ Other:		

F, NA	Units	Date analyzed
☐ Calcium (00915)	mg/l	
☐ Magnesium (00925)	mg/l	
☐ Sodium (00930)	mg/l	
☐ Potassium (00935)	mg/l	
☐ Bicarbonate (00440)	mg/l	
☐ Chloride (00940)	mg/l	
☐ Sulfate (00945)	mg/l	
☐ Total filterable residue (dissolved) (70300)	mg/l	
☐ Other:		

NF, A-H_2SO_4	Units	Date analyzed
☐ Nitrate-N +, Nitrate-N total (00630)	mg/l	
☐ Ammonia-N total (00610)	mg/l	
☐ Total Kjeldahl-N ( )	mg/l	
☐ Chemical oxygen demand (00340)	mg/l	
☐ Total organic carbon ( )	mg/l	
☐ Other:		
☐ Other:		

F, A-H_2SO_4	Units	Date analyzed
☐ Nitrate-N +, Nitrate-N dissolved (00631)	mg/l	
☐ Ammonia-N dissolved (00608)	mg/l	
☐ Total Kjeldahl-N ( )	mg/l	
☐ Other:		

Analyst	Date Reported	Reviewed by
	10 | 22 | 85	Jim Ashby

Laboratory remarks: Sample digested.

SLD 726 (12/84) *DISTRIBUTION:* **WHITE** — EID, GW&HW Bureau **CANARY** — WS System **PINK** — EID Local Office **GOLDENROD** — SLD

ICAP SCREEN

Lab Number: HM 1684

Sample Code: Minora Oil Co. Mary Wheeler

Date Submitted: 9/18/85

Date Reported: 10/22/85

By: Boyer

By: Jim Ashley

Date Analyzed: 10/21/85

Determination	Concentration (µg/ml)
Aluminum	<0.1
Barium	<0.1
Beryllium	<0.1
Boron	1.6
Cadmium	<0.1
Calcium	210.
Chromium	<0.1
Cobalt	<0.1
Copper	<0.1
Iron	3.9
Lead	<0.1
Magnesium	64.
Manganese	0.16
Molybdenum	<0.1
Nickel	<0.1
Silicon	7.9
Silver	<0.1
Strontium	20.
Tin	<0.1
Vanadium	<0.1
Yttrium	<0.1
Zinc	<0.1

ATOMIC ABSORPTION ANALYSES

Determination	Concentration (µg/ml)
Arsenic	
Selenium	
Mercury	

* Hi Sodium in Samples

STATE OF NEW MEXICO
ENVIRONMENT

SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106 841-2570

86- 0503-C

REPORT TO: DAVID G. BOYER
PLEASE PRINT
NEW MEXICO OIL CONSERVATION DIV.
P.O. BOX 2088
SANTA FE, NM 87504-2088
PHONE(S): 827-5812

S.L.D. No.: OR- 503-14 B
DATE REC. : 4/28/86
SLD PRIORITY #:

USER CODE: 8 2 2 3 5
SUBMITTER: DAVID BOYER
SUBMITTER CODE:
SAMPLE TYPE: WATER [X], SOIL [ ], OTHER
SAMPLE TYPE CODE:
COLLECTED: 4/23/86 (DATE) -13:55 (TIME) BY DB (INITIALS)
CODE: 8 6 0 4 2 3 1 3 5 5 9 3 (Y Y M M D D H H M M I I)
SOURCE: MANANA TANK DRAIN
CODE: (AQUIFER + DEPTH)
NEAREST CITY: FLORA VISTA
CODE:
LOCATION: MARY WHEELER
CODE: (TOWNSHIP RANGE SECTION TRACTS)

pH=_____; Conductivity=_____umho/cm at _____°C; Chlorine Residual=_____
Dissolved Oxygen=_____mg/l; Alkalinity=_____; Flow Rate=_____
Sampling Location, Methods and Remarks (i.e. odors, etc.)
Water Drain from oil Tank - oil and produced water

I certify that the statements in this block accurately reflect the results of my field analyses, observations and activities. [signature]
Method of shipment to the Laboratory Hand carried
This form accompanies 2 Septum Vials, ___ Glass Jugs, ___
Containers are marked as follows to indicate preservation:
[ ] NP: No preservation; sample stored at room temperature.
[X] P-Ice Sample stored in an ice bath (not frozen).
[ ] P-$Na_2S_2O_3$; Sample preserved with $Na_2S_2O_3$ to remove chlorine residual.

I (we) certify that this sample was transferred from David Boyer to J.F. at (location) SLD on
__/__/__ - __:__ (DATE AND TIME) and that the statements in this block are correct.
Evidentiary Seals: Not Sealed [ ] Seals Intact: Yes [X] No [ ]
Signatures [signature] [signature]

(we) certify that this sample was transferred from _____
to _____ at (location) _____ on
__/__/__ - __:__ (DATE AND TIME) and that the statements in this block are correct.
Evidentiary Seals: Not Sealed [ ] Seals Intact: Yes [ ] No [ ]
Signatures _____

ANALYSES REQUESTED

LAB. No.: ORG- 503

PLEASE CHECK THE APPROPRIATE BOXES BELOW TO INDICATE THE TYPE OF ANALYTICAL SCREENS REQUIRED. WHENEVER POSSIBLE LIST SPECIFIC COMPOUNDS SUSPECTED OR REQUIRED.

QUALITATIVE	QUANTITATIVE	PURGEABLE SCREENS	QUALITATIVE	QUANTITATIVE	EXTRACTABLE SCREENS
		ALIPHATIC HYDROCARBON SCREEN			ALIPHATIC HYDROCARBONS
X	X	AROMATIC HYDROCARBON SCREEN			CHLORINATED HYDROCARBON PESTICIDES
X	X	HALOGENATED HYDROCARBON SCREEN			CHLOROPHENOXY ACID HERBICIDES
		GAS CHROMATOGRAPH/MASS SPECTROMETER			HYDROCARBON FUEL SCREEN
					ORGANOPHOSPHATE PESTICIDES
					POLYCHLORINATED BIPHENYLS (PCB's)
					POLYNUCLEAR AROMATIC HYDROCARBONS
					TRIAZINE HERBICIDES
		SPECIFIC COMPOUNDS			SPECIFIC COMPOUNDS

REMARKS:

ANALYTICAL RESULTS

COMPOUND	[PPB]	COMPOUND	[PPB]
aromatic hydrocarbons *		halogenated hydrocarbons *	none detected
benzene	550		
toluene	120		
ethylbenzene	45		
p-xylene	120		
m-xylene	540		
o-xylene	145		
		* DETECTION LIMIT	1

REMARKS: teflon septum was inverted. Rubber part was in contact with the sample.

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes ✓ NO ___. Seal(s) broken by: Mary C. Eden date: 5/21/86

I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements in this block and the analytical data on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 5/21/86. Analyst's signature: Mary C. Eden

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block. Reviewers signature: L Mayeske

754
3

STATE OF NEW MEXICO
ENVIRONMENT

86- 0583-C

SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106 841-2570

REPORT TO: DAVID G. BOYER
PLEASE PRINT
NEW MEXICO OIL CONSERVATION DIV.
P.O. BOX 2088
SANTA FE, NM 87504-2088
PHONE(S): 827-5812

S.L.D. No.: OR- 583-17 B
DATE REC. : 5/22/86
SLD PRIORITY #:

USER CODE: 8 2 2 3 5
SUBMITTER: DAVID BOYER
SUBMITTER CODE:
SAMPLE TYPE: WATER ☒, SOIL ☐, OTHER
SAMPLE TYPE CODE:
COLLECTED: 5/21/86 - 13:00 BY RA
DATE TIME INITIALS
CODE: 8 6 0 5 2 1 1 3 0 0 RA
Y Y M M D D H H M M I I I
SOURCE: TANK DRAIN PIT
CODE: + +
AQUIFER DEPTH
NEAREST CITY: FLORA VISTA
CODE:
LOCATION: MARY WHEELER 1E
CODE: 3 0 N 1 3 W 2 4 3 3 2
TOWNSHIP RANGE SECTION TRACTS

pH= 9.2 ; Conductivity= 50000 umho/cm at 27 °C; Chlorine Residual=
Dissolved Oxygen= mg/l; Alkalinity= ; Flow Rate=
Sampling Location, Methods and Remarks (i.e. odors, etc.)

DIPPED GRAB SAMPLE FROM TANK. (This is drained from oil storage tank. DGB)

I certify that the statements in this block accurately reflect the results of my field analyses, observations and activities.
Method of shipment to the Laboratory Hand carried
This form accompanies 2 Septum Vials, Glass Jugs,
Containers are marked as follows to indicate preservation:
☐ NP: No preservation; sample stored at room temperature.
☒ P-Ice Sample stored in an ice bath (not frozen).
☐ P-$Na_2S_2O_3$; Sample preserved with $Na_2S_2O_3$ to remove chlorine residual.

I (we) certify that this sample was transferred from
to TAF at (location) SLD on
/ / - : and that the statements in this block are correct.
DATE AND TIME
Evidentiary Seals: Not Sealed ☐ Seals Intact: Yes ☒ No ☐
Signatures

(we) certify that this sample was transferred from
to at (location) on
/ / - : and that the statements in this block are correct.
DATE AND TIME
Evidentiary Seals: Not Sealed ☐ Seals Intact: Yes ☐ No ☐
Signatures

ANALYSES REQUESTED

LAB. No.: ORG- 583

PLEASE CHECK THE APPROPRIATE BOXES BELOW TO INDICATE THE TYPE OF ANALYTICAL SCREENS REQUIRED. WHENEVER POSSIBLE LIST SPECIFIC COMPOUNDS SUSPECTED OR REQUIRED.

QUALITATIVE	QUANTITATIVE	PURGEABLE SCREENS	QUALITATIVE	QUANTITATIVE	EXTRACTABLE SCREENS
		ALIPHATIC HYDROCARBON SCREEN			ALIPHATIC HYDROCARBONS
X	X	AROMATIC HYDROCARBON SCREEN			CHLORINATED HYDROCARBON PESTICIDES
X	X	HALOGENATED HYDROCARBON SCREEN			CHLOROPHENOXY ACID HERBICIDES
		GAS CHROMATOGRAPH/MASS SPECTROMETER			HYDROCARBON FUEL SCREEN
					ORGANOPHOSPHATE PESTICIDES
					POLYCHLORINATED BIPHENYLS (PCB's)
					POLYNUCLEAR AROMATIC HYDROCARBONS
					TRIAZINE HERBICIDES
		SPECIFIC COMPOUNDS			SPECIFIC COMPOUNDS

REMARKS:

ANALYTICAL RESULTS

COMPOUND	[PPB]	COMPOUND	[PPB]
halogenated purgeables	none detected		
benzene	150		
toluene	500		
ethylbenzene	11		
p-xylene	120		
m-xylene	640		
o-xylene	180		
		* DETECTION LIMIT	5 ugm/l

REMARKS: Four other compounds were detected by the aromatic screen that were not identified.

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes X NO ___. Seal(s) broken by: JF date: 6 Jun 86 10 Jun 86

I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements in this block and the analytical data on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 6 & 10 Jun 86. Analyst's signature: [signature]

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block. Reviewers signature: [signature]

FOR OCD USE -- Date Owner Notified _____ Phone or letter? _____ Initials _____

764
3

STATE OF NEW MEXICO
ENVIRONMENT

JUL 22 1986

86- 0600-B

SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106 841-2570

REPORT TO: DAVID G. BOYER
PLEASE PRINT
NEW MEXICO OIL CONSERVATION DIV.
P.O. BOX 2088
SANTA FE, NM 87504-2088
PHONE(S): 827-5812

S.L.D. No.: OR-600-H
DATE REC. : 5/22/86
SLD PRIORITY #:

USER CODE: 8|2|2|3|5|
SUBMITTER: David G Boyer
SUBMITTER CODE: | | | | |
SAMPLE TYPE: WATER ☐, SOIL ☐, OTHER ____
SAMPLE TYPE CODE: | |
COLLECTED: 86/05/21 (DATE) - 13:00 (TIME) BY DGB/JB (INITIALS)
CODE: | | | | | | | | | | | | | | |
Y Y M M D D H H M M I I I
SOURCE: Manana Tank Drain Pit
CODE: | | | + | | | + | | | | | |
AQUIFER DEPTH
NEAREST CITY: Flora Vista
CODE: | | | | | | |
LOCATION: ____
CODE: | | | | | | | | | | |
TOWNSHIP RANGE SECTION TRACTS

pH= 7.2; Conductivity= 50,000+ umho/cm at ____ °C; Chlorine Residual= ____
Dissolved Oxygen= ____ mg/l; Alkalinity= 27; Flow Rate= ____
Sampling Location, Methods and Remarks (i.e. odors, etc.)
Dipped Grab Sample from Tank, Oil & Water in Tank,
(This fluid drained from Oil storage tank. DGB)

I certify that the statements in this block accurately reflect the results of my field analyses, observations and activities. David G Boyer
Method of shipment to the Laboratory Hand carried
This form accompanies ___ Septum Vials, 1 Glass Jugs, ___ ____
Containers are marked as follows to indicate preservation:
☐ NP: No preservation; sample stored at room temperature.
☒ P-Ice Sample stored in an ice bath (not frozen).
☐ P-$Na_2S_2O_3$; Sample preserved with $Na_2S_2O_3$ to remove chlorine residual.

I (we) certify that this sample was transferred from D G Boyer
to JAF at (location) SLD on
86/05/22 (DATE) - 11:00 (TIME) and that the statements in this block are correct.
Evidentiary Seals: Not Sealed ☐ Seals Intact: Yes ☒ No ☐
Signatures JH Sumney D G Boyer

(we) certify that this sample was transferred from ____
to ____ at (location) ____ on
__/__/__ (DATE) - __:__ (TIME) and that the statements in this block are correct.
Evidentiary Seals: Not Sealed ☐ Seals Intact: Yes ☐ No ☐
Signatures ____ ____

ANALYSES REQUESTED

LAB. No.: ORG- 600

PLEASE CHECK THE APPROPRIATE BOXES BELOW TO INDICATE THE TYPE OF ANALYTICAL SCREENS REQUIRED. WHENEVER POSSIBLE LIST SPECIFIC COMPOUNDS SUSPECTED OR REQUIRED.

QUALITATIVE	QUANTITATIVE	PURGEABLE SCREENS	QUALITATIVE	QUANTITATIVE	EXTRACTABLE SCREENS
		ALIPHATIC HYDROCARBON SCREEN			ALIPHATIC HYDROCARBONS
		AROMATIC HYDROCARBON SCREEN			CHLORINATED HYDROCARBON PESTICIDES
		HALOGENATED HYDROCARBON SCREEN			CHLOROPHENOXY ACID HERBICIDES
		GAS CHROMATOGRAPH/MASS SPECTROMETER			HYDROCARBON FUEL SCREEN
					ORGANOPHOSPHATE PESTICIDES
					POLYCHLORINATED BIPHENYLS (PCB's)
			X	X	POLYNUCLEAR AROMATIC HYDROCARBONS
					TRIAZINE HERBICIDES
		SPECIFIC COMPOUNDS			SPECIFIC COMPOUNDS
					Napthalenes, Benzapyrene

REMARKS:

ANALYTICAL RESULTS

COMPOUND	[PPB]	COMPOUND	[PPB]
NAPHTHALENE	150 ppb		
2-METHYLNAPHTHALENE	150 ppb		
1-METHYLNAPHTHALENE	50 ppb		
BENZO(a) PYRENE	<18* ppb		
		* DETECTION LIMIT	

REMARKS:

*MAXIMUM - DUE TO THE PRESENCE OF ALKANE INTERFERENCES CANNOT RULE OUT BENZO(a) PYRENE. HOWEVER DON'T THINK IT IS PRESENT ABOVE 5ppb.

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes ✓ NO ___. Seal(s) broken by: A S Bussey date: 6/23/86

I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements in this block and the analytical data on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 7/9/86. Analyst's signature: A S Bussey

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block. Reviewers signature: K Meyerhen

FOR OCD USE -- Date Owner Notified _____ Phone or letter? _____ Initials _____

86- 0230-C

STATE OF NEW MEXICO
ENVIRONMENT

SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106 841-2570

REPORT TO: DAVID BOYER
PLEASE PRINT
NM OIL CONSERVATION DIVISION
STATE LAND OFFICE BLDG, PO BOX 2088
SANTA FE, NM 87504-2088

S.L.D. No.: OR- 230 A,B
DATE REC. : 3/4/86.
SLD Prior*3

PHONE(S): 827-5812
USER CODE: 8|2|3|5

SUBMITTER: DAVID BOYER
SUBMITTER CODE: | | | | |

SAMPLE TYPE: WATER [X], SOIL [ ], OTHER _____
SAMPLE TYPE CODE: | |

COLLECTED: 2/28/86 - 13:05 BY DB
DATE TIME INITIALS
CODE: 8|6|0|2|2|8|1|3|0|5|<|I|I|
Y Y M M D D H H M M I I I

SOURCE: DEHYDRATOR BARREL - EPNG
CODE: | | | + | | | + | | | | |
AQUIFER DEPTH

NEAREST CITY: FLORA VISTA
CODE: | | | | | | |

LOCATION: MANANA MARY WHEELER 1E
CODE: | | | | | | | | | | |
TOWNSHIP RANGE SECTION TRACTS

pH= 5.5 ; Conductivity= 81 umho/cm at 17 °C; Chlorine Residual= _____
Dissolved Oxygen= _____ mg/l; Alkalinity= _____; Flow Rate= _____
Sampling Location, Methods and Remarks (i.e. odors, etc.)

Dipped from 55 gal barrel containing <5 gal fluid. Barrel emptied >2 weeks ago. No rain or snow since
Witnessed by Joe Sandoval - EPNG

I certify that the statements in this block accurately reflect the results of my field analyses, observations and activities. David Boyer
Method of shipment to the Laboratory Hand carried
This form accompanies 2 Septum Vials, ___ Glass Jugs, ___ _____
Containers are marked as follows to indicate preservation:
[ ] NP: No preservation; sample stored at room temperature.
[X] P-Ice Sample stored in an ice bath (not frozen).
[ ] P-$Na_2S_2O_3$; Sample preserved with $Na_2S_2O_3$ to remove chlorine residual.

I (we) certify that this sample was transferred from OCD
to R Meyerhein at (location) SLO on
3/4/86 - 18:12 and that the statements in this block are correct.
DATE AND TIME
Evidentiary Seals: Not Sealed [ ] Seals Intact: Yes [X] No [ ]
Signatures David Boyer R Meyerhein

(we) certify that this sample was transferred from _____
to _____ at (location) _____ on
__/__/__ - __:__ and that the statements in this block are correct.
DATE AND TIME
Evidentiary Seals: Not Sealed [ ] Seals Intact: Yes [ ] No [ ]
Signatures _____ _____

ANALYSES REQUESTED

LAB. No.: ORG- 230

PLEASE CHECK THE APPROPRIATE BOXES BELOW TO INDICATE THE TYPE OF ANALYTICAL SCREENS REQUIRED. WHENEVER POSSIBLE LIST SPECIFIC COMPOUNDS SUSPECTED OR REQUIRED.

QUALITATIVE	QUANTITATIVE	PURGEABLE SCREENS	QUALITATIVE	QUANTITATIVE	EXTRACTABLE SCREENS
		ALIPHATIC HYDROCARBON SCREEN			ALIPHATIC HYDROCARBONS
X	X	AROMATIC HYDROCARBON SCREEN			CHLORINATED HYDROCARBON PESTICIDES
X	X	HALOGENATED HYDROCARBON SCREEN			CHLOROPHENOXY ACID HERBICIDES
		GAS CHROMATOGRAPH/MASS SPECTROMETER			HYDROCARBON FUEL SCREEN
					ORGANOPHOSPHATE PESTICIDES
X	X	Head Space Test			POLYCHLORINATED BIPHENYLS (PCB's)
					POLYNUCLEAR AROMATIC HYDROCARBONS
					TRIAZINE HERBICIDES
		SPECIFIC COMPOUNDS			SPECIFIC COMPOUNDS

REMARKS:

ANALYTICAL RESULTS

COMPOUND	[~~PPB~~] PPM
Headspace *	
Methane	207
Ethane	74
Propane	29
Isobutane	16
Butane	13
Isopentane	26
Pentane	49

REMARKS:

COMPOUND	[PPB]
~~Aromatic Hydrocarbons~~ **	
Benzene	550
Toluene	350
Ethylbenzene	2
p-xylene	1800
o-Xylene	499
** Detection Limit	2
* DETECTION LIMIT Methane ≥0.3 PPM	
Halogenated Hydrocarbons ***	
Dibromochloromethane	4
Bromoform	2
Detection Limit	1

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes ✓ NO ___. Seal(s) broken by: C S Burney date: 3/5/86

I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements in this block and the analytical data on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 3/6/86 4/4/86. Analyst's signature: C S Burney, Mary Eden

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block. Reviewers signature: K Meyerhen

New Mexico Health and Environment Department
SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106 — (505) [redacted]-2555

PW Harvey Motal

GENERAL WATER CHEMISTRY & NITROGEN ANALYSIS

DATE RECEIVED 3 5 86 | LAB NO. HM 461 | USER CODE ☐ 59300 ☐ 59600 ☒ OTHER: 82235

Collection DATE 2 28 86
Collection TIME 1305
Collected by — Person/Agency BAILEY/OCD SANDOVAL/EPNG

SITE INFORMATION ►
Sample location MANANA MARY WHEELER 1E
Collection site description EPNG DEHYDRATOR DISCHARGE BARREL

SEND FINAL REPORT TO ►
ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg, PO Box 2088
Santa Fe, NM 87501
Attn: David Boyer

Station/ well code
Owner

SAMPLING CONDITIONS

☐ Bailed ☐ Pump ☒ Dipped ☐ Tap	Water level	Discharge	Sample type
pH (00400) 5.5	Conductivity (Uncorrected) 81 µmho	Water Temp. (00010) 17 °C	Conductivity at 25°C (00094) µmho

Field comments: Dipped from 55 gal barrel containing < 5 gal fluid. Witnessed by Joe Sandoval - EPNG Barrel emptied ~2 weeks ago; no rain or snow since.

SAMPLE FIELD TREATMENT — *Check proper boxes*

No. of samples submitted

☒ **NF:** Whole sample (Non-filtered) ☐ **F:** Filtered in field with 0.45 µmembrane filter ☐ **A:** 2 ml H_2SO_4/L added

☒ **NA:** No acid added ☐ Other-*specify:* Add HNO_3 as preservative in Lab.

ANALYTICAL RESULTS from SAMPLES

NF, NA		Units	Date analyzed
☒ Conductivity (Corrected) 25°C (00095)		µmho	
☐ Total non-filterable residue (suspended) (00530)		mg/l	
☒ Other: ICAP SCAN			3/20/86
☒ Other: As	< 0.005		4/9/86
☒ Other: Hg	< 0.005		3/25/86

F, NA		Units	Date analyzed
☐ Calcium (00915)		mg/l	
☐ Magnesium (00925)		mg/l	
☐ Sodium (00930)		mg/l	
☐ Potassium (00935)		mg/l	
☐ Bicarbonate (00440)		mg/l	
☐ Chloride (00940)		mg/l	
☐ Sulfate (00945)		mg/l	
☐ Total filterable residue (dissolved) (70300)		mg/l	
☐ Other:			

NF, A-H_2SO_4			
☐ Nitrate-N +, Nitrate-N total (00630)		mg/l	
☐ Ammonia-N total (00610)		mg/l	
☐ Total Kjeldahl-N ( )		mg/l	
☐ Chemical oxygen demand (00340)		mg/l	
☐ Total organic carbon ( )		mg/l	
☐ Other:			
☐ Other:			

F, A-H_2SO_4			
☐ Nitrate-N +, Nitrate-N dissolved (00631)		mg/l	
☐ Ammonia-N dissolved (00608)		mg/l	
☐ Total Kjeldahl-N ( )		mg/l	
☐ Other:			

Analyst | Date Reported 4 18 86 | Reviewed by JTA

Laboratory remarks: Seal intact. Broken by JTA 3/6/86. 2.5 ml HNO_3 added @ lab. JTA Sample Digested.

Lab Number: HA 461

Sample Code: Manana Mary Wheeler

Date Submitted: 3/5/86

Date Analyzed: 3/20/86

By: Bailey

Reviewed By: Jim Ashley

Date Reported: 4/18/86

Element	ICAP VALUE(MG/L)	AA VALUE(MG/L)
Aluminum	<0.1	
Barium	<0.1	
Berylium	<0.1	
Boron	<0.1	
Cadmium	<0.1	
Calcium	8.6	
Chromium	<0.1	
Cobalt	<0.1	
Copper	<0.1	
Iron	16.	
Lead	<0.1	
Magnesium	0.2	
Manganese	0.65	
Molybdenum	<0.1	
Nickel	<0.1	
Silicon	<0.1	
Silver	<0.1	
Strontium	<0.1	
Tin	0.2	
Vanadium	<0.1	
Zinc	<0.1	
Arsenic		<0.005
Selenium		
Mercury		<0.0005

STATE OF NEW MEXICO
ENVIRONMENT

SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106 841-2570

86-[illegible]53 -C

REPORT TO: DAVID G. BOYER
PLEASE PRINT
NEW MEXICO OIL CONSERVATION DIV.
P.O. BOX 2088
SANTA FE, NM 87501
PHONE(S): 827-5812

S.L.D. No.: OR-53-A-B
DATE REC. : 1-27-86
SLD PRIORITY #: 3

USER CODE: 8|2|2|3|5|
SUBMITTER: DAVID BOYER
SUBMITTER CODE: | | | | |
SAMPLE TYPE: WATER [X], SOIL [ ], OTHER _____
SAMPLE TYPE CODE: | | |
COLLECTED: 86/01/17 - 19:15 BY DGB
DATE TIME INITIALS
CODE: | | | | | | | | | | | | | | |
Y Y M M D D H H M M I I I
SOURCE: Dehydrator Barrel
CODE: | | | † | | | † | | | | |
AQUIFER DEPTH
NEAREST CITY: Flora Vista
CODE: | | | | | |
LOCATION: El Paso Natural Gas Dehydrator
CODE: | | | | | | | | | | |
TOWNSHIP RANGE SECTION TRACTS

pH=____; Conductivity=____umho/cm at ____°C; Chlorine Residual=____
Dissolved Oxygen=____mg/l; Alkalinity=____; Flow Rate=____
Sampling Location, Methods and Remarks (i.e. odors, etc.)
Sampled dipped with clean Mason jar from 55 gallon drum located at Mary Wheeler 1E Gas well in Municipal well field

I certify that the statements in this block accurately reflect the results of my field analyses, observations and activities. David G. Boyer
Method of shipment to the Laboratory Hand Carried - T. Bailey
This form accompanies 2 Septum Vials, ___ Glass Jugs, ___ _____
Containers are marked as follows to indicate preservation:
[ ] NP: No preservation; sample stored at room temperature.
[X] P-Ice Sample stored in an ice bath (not frozen).
[ ] P-$Na_2S_2O_3$; Sample preserved with $Na_2S_2O_3$ to remove chlorine residual.

I (we) certify that this sample was transferred from _____
to _____ at (location) _____ on
___/___/___-___:___ and that the statements in this block are correct.
DATE AND TIME
Evidentiary Seals: Not Sealed [ ] Seals Intact: Yes [ ] No [ ]
Signatures _____ _____

(we) certify that this sample was transferred from _____
to _____ at (location) _____ on
___/___/___-___:___ and that the statements in this block are correct.
DATE AND TIME
Evidentiary Seals: Not Sealed [ ] Seals Intact: Yes [ ] No [ ]
Signatures _____ _____

ANALYSES REQUESTED

LAB. No.: ORG- 53

PLEASE CHECK THE APPROPRIATE BOXES BELOW TO INDICATE THE TYPE OF ANALYTICAL SCREENS REQUIRED. WHENEVER POSSIBLE LIST SPECIFIC COMPOUNDS SUSPECTED OR REQUIRED.

QUALITATIVE	QUANTITATIVE	PURGEABLE SCREENS	QUALITATIVE	QUANTITATIVE	EXTRACTABLE SCREENS
		ALIPHATIC HYDROCARBON SCREEN			ALIPHATIC HYDROCARBONS
X	X	AROMATIC HYDROCARBON SCREEN			CHLORINATED HYDROCARBON PESTICIDES
X	X	HALOGENATED HYDROCARBON SCREEN			CHLOROPHENOXY ACID HERBICIDES
		GAS CHROMATOGRAPH/MASS SPECTROMETER			HYDROCARBON FUEL SCREEN
X	X	Head Space Test			ORGANOPHOSPHATE PESTICIDES
					POLYCHLORINATED BIPHENYLS (PCB's)
					POLYNUCLEAR AROMATIC HYDROCARBONS
					TRIAZINE HERBICIDES
		SPECIFIC COMPOUNDS			SPECIFIC COMPOUNDS

REMARKS:

ANALYTICAL RESULTS

COMPOUND	~~[PPB]~~	COMPOUND	[PPB]
Methane in Headspace	0.5%	benzene ⊛	14000
Ethane in "	0.05%	toluene ⊛	37000
Propane in "	0.06%	ethylbenzene ⊛	1200
Isobutane in "	0.02%	p-xylene ⊛	3000
Butane in "	0.04%	m-xylene ⊛	11000
		o-xylene ⊛	4100
halo. purg. screen	no data	⊛ DETECTION LIMIT	200 ppb
		* DETECTION LIMIT (Methane)	2ppm

REMARKS:

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes___ NO X. Seal(s) broken by:_____ date:_____

I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements in this block and the analytical data on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 2/4/86 & ~~2/6/86~~. Analyst's signature: C S Barnes

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block. Reviewers signature: K D Engebretson