1R - 184

REPORTS

DATE:

1986

EID 36 HR PUMP TEST

MONUMENT N.M.

MONUMENT'S REPLACEMENT WELL - WATER SAMPLES BY EID

36 HOUR EID PUMP TEST

CHEMICAL PARAMETERS	DATE / TIME / LAB #	6/5/86 9:20AM 86-0675-C	6/9/86 7:35 AM 86-0705-C	6/9/86 3:38PM 86-0709-B	6/10/86 12:15PM 86-0702-C	6/10/86 7:35PM 86-0706-C
ORGANICS						
1) PURGABLES						
NATURAL GAS COMPONENTS						
METHANE		491 PPM	930 PPM	114 PPM	96 PPM	75 PPM
ETHANE		13 PPM	17 PPM	5 PPM	3.5 PPM	4 PPM
PROPANE		13 PPM	20 PPM	4 PPM	2.1 PPM	2 PPM
ISOBUTANE		3 PPM	7 PPM	—	2.3 PPM	—
BUTANE		4 PPM	6 PPM	—	2.2 PPM	—
ISOPENTANE		7 PPM	—	—	—	—
PENTANE		16 PPM	—	—	—	—
A) AROMATICS		N/D				
BENZENE			TRACE <.0004	.001 PPM	0.002 PPM	0.005 PPM
TOLUENE		—	—	—	—	0.003 PPM
M-XYLENE		—	—	—	—	TRACE <0.001
O-XYLENE		—	—	—	—	—
P-XYLENE		—	—	—	—	—
B) HALOGENATED		N/D	N/D	N/D	N/D	N/D
DECTION LIMIT						
2) EXTRACTABLES						
GENERAL CHEMISTRY						WC 2565
SODIUM						82.8 PPM
POTASSIUM						6.4 PPM
TOTAL HARDNESS						700 PPM
CALCIUM						229.6 PPM
MAGNESIUM						30.7 PPM
CHLORIDE						510.4 PPM
FLUORIDE						—
ALKALINITY						183 PPM
BICARBONATE						223.5 PPM
CARBONATE						0.0 PPM
SULFATE						41.0 PPM
TOTAL FILTERABLE RES. (TDS)						1750 PPM
CONDUCTANCE						1830
PH						7.61
NITRATE						—
						—
I-CAP						HM 1097
ALUMINUM						<0.1 PPM
BARIUM						0.3 PPM
BERYLIUM						<0.1 PPM
BORON						0.1 PPM
CADMIUM						<0.1 PPM
CALCIUM						260. PPM
CHROMIUM						<0.1 PPM
COBALT						<0.1 PPM
COPPER						<0.1 PPM
IRON						0.3 PPM
LEAD						<0.1 PPM
MAGNESIUM						33 PPM
MAGANESE						<0.1 PPM
MOLYBDENUM						<0.1 PPM
NICKEL						<0.1 PPM
SILICON						19 PPM
SILVER						<0.1 PPM
STRONTIUM						1.8 PPM
TIN						<0.1 PPM
VANADIUM						<0.1 PPM
ZINC						<0.1 PPM

ANALYSES REQUESTED — LAB. No.: ORG-706

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)
					POLYNUCLEAR AROMATIC HYDROCARBONS
					TRIAZINE HERBICIDES
		SPECIFIC COMPOUNDS			SPECIFIC COMPOUNDS
	✓	Natural gas			

REMARKS:

ANALYTICAL RESULTS

COMPOUND	~~[PPB]~~	COMPOUND	[PPB]
NATURAL GAS IN HEADSPACE			
METHANE	75 ppmv		
ETHANE	4 ppmv		
PROPANE	2 ppmv		
		* DETECTION LIMIT	

REMARKS:

Chromatographic fingerprint of organics in headspace is consistent with that of natural gas.
Backup data in folder # 709

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes___ NO___. 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: 6/16/86. Analyst's signature: C S Burns

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 Mayer Lem

ENVIRONMENT

86- 0706-C

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

764

(9)

Priority 2

REPORT TO: Oscar Simpson
EIQ- Water Supply
Santa Fe

S.L.D. No.: OR- 706-A-B
DATE REC. : 6/12/86
PHONE 827-2777
USER CODE: 5010/14

CONTAINERS WHICH ACCOMPANY THIS FORM ARE COLLECTIVELY REFERED TO AS SAMPLE.

SUBMITTER: Rolf Ruffner CODE:

SAMPLE TYPE: WATER ☑, SOIL ☐, OTHER _____ CODE:

COLLECTED: 6/10/86 - 7:35PM BY D. Lutjens CODE:
DATE AND TIME
Y Y M M D D H H M M I I I

SOURCE: ~~Monument~~ New Well B CODE:
AQUIFER DEPTH

NEAREST CITY: Monument CODE:

LOCATION: Monument 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.)

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

Method of shipment to the Laboratory Pursatotan

This form accompanies ✓ 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- 702-C

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)
					POLYNUCLEAR AROMATIC HYDROCARBONS
					TRIAZINE HERBICIDES
		SPECIFIC COMPOUNDS			SPECIFIC COMPOUNDS
	✓	Natural Gas			

REMARKS:

ANALYTICAL RESULTS

COMPOUND	~~[PPB]~~	COMPOUND	[PPB]
Natural Gas in Headspace			
Methane	96 ppmv		
Ethane	3.5 ppmv		
Propane	2.1 ppmv		
Isobutane	2.3 ppmv		
Butane	2.2 ppmv		
		* DETECTION LIMIT	

REMARKS:

Chromatographic fingerprint of the organics in the headspace is consistent with that of natural gas

Backup data in folder #909

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes___ NO___. 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: 6/16/86. Analyst's signature: C. S. Burrus

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

ENVIRONMENT

86- 0702-C NEW MEXICO

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

1164

(8)

Priority 2

702-A-B

REPORT TO: Oscar Simpson
EID Water Supply
Santa Fe

S.L.D. No.: OR- ~~80274~~

DATE REC. : 6/12/86

PHONE 827-2777

USER CODE: 5101/14

CONTAINERS WHICH ACCOMPANY THIS FORM ARE COLLECTIVELY REFERED TO AS SAMPLE.

SUBMITTER: Roelf Ruffner CODE:

SAMPLE TYPE: WATER ☑, SOIL ☐, OTHER _____ CODE:

COLLECTED: 6/10/86-12:45 PM BY D. Lutjens CODE:
DATE AND TIME — Y Y M M D D H H M M I I I

SOURCE: New Well B CODE:
AQUIFER DEPTH

NEAREST CITY: Monument CODE:

LOCATION: Monument 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.)

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

Method of shipment to the Laboratory Pumpkin

This form accompanies ✓ 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- 709

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)
					POLYNUCLEAR AROMATIC HYDROCARBONS
					TRIAZINE HERBICIDES
		SPECIFIC COMPOUNDS			SPECIFIC COMPOUNDS
	✓	natural gas			

REMARKS:

ANALYTICAL RESULTS

COMPOUND	~~[PPB]~~	COMPOUND	[PPB]
Natural gas in headspace			
Methane	114 ppm		
Ethane	5 ppm		
Propane	4 ppm		
		* DETECTION LIMIT	

REMARKS:

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes___ NO___. 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: 6/16/86. 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]

ENVIRONMENT

86-07[redacted]-B

SCIENTIFIC LABORATORY DIVISION
700 Ca[redacted] de Salud NE
Albuquerque, [redacted]M 87106 841-2570

764

(5)

Priority 2

REPORT TO: Oscar Simpson
EID Water Supply
Santa Fe

S.L.D. No.: OR- 709-A
DATE REC. : 6/12/86
PHONE 827-2777
USER CODE: 5001/14

CONTAINERS WHICH ACCOMPANY THIS FORM ARE COLLECTIVELY REFERED TO AS SAMPLE.

SUBMITTER: Rolly Ruffner CODE:

SAMPLE TYPE: WATER ☑, SOIL ☐, OTHER _____ CODE:

COLLECTED: 6/9/86 - 3:38PM BY R. Ruffner CODE:
DATE AND TIME
Y Y M M D D H H M M I I I

SOURCE: New Monument Well B CODE:
AQUIFER DEPTH

NEAREST CITY: Monument CODE:

LOCATION: Monument 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.)

strong smell of hydrocarbons
6:19pm

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

Method of shipment to the Laboratory Pueblo

This form accompanies 6 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 _____

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- 705

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)
					POLYNUCLEAR AROMATIC HYDROCARBONS
					TRIAZINE HERBICIDES
		SPECIFIC COMPOUNDS			SPECIFIC COMPOUNDS
✓		natural gas			

REMARKS:

ANALYTICAL RESULTS

COMPOUND	[illegible]	COMPOUND	[PPB]
NATURAL GAS IN HEADSPACE			
METHANE	930 ppmv		
ETHANE	17 ppmv		
PROPANE	20 ppmv		
ISOBUTANE	7 ppmv		
BUTANE	6 ppmv		
		* DETECTION LIMIT	

REMARKS:

Chromatographic fingerprint of organics in headspace is consistent with natural gas.

Backup data in Folder # 709

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes___ NO___. 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: 6/16/86. Analyst's signature: C S Burney

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 Meyer Lea

86-0705-C

ENVIRONMENT

SCIENTIFIC LABORATORY DIVISION
700 [illegible]no de Salud NE
Albuquerque, NM 87106 841-2570

764

(6)

Priority 2

REPORT TO: Oscar Simpson
EID Water Supply
Santa Fe

S.L.D. No.: OR- 705-A-B
DATE REC. : 6/12/86
PHONE 827-2777
USER CODE: 5|0|0|1|4|

CONTAINERS WHICH ACCOMPANY THIS FORM ARE COLLECTIVELY REFERED TO AS SAMPLE.

SUBMITTER: Rolly Ruffner CODE:

SAMPLE TYPE: WATER ☑, SOIL ☐, OTHER _____ CODE:

COLLECTED: 6/9/86 - 7:35AM (DATE AND TIME) BY R. Ruffner CODE: Y Y M M D D H H M M I I I

SOURCE: New Monument Well B CODE: (AQUIFER) (DEPTH)

NEAREST CITY: Monument CODE:

LOCATION: Monument 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.)

7:09pm

RECEIVED
JUN 23 1986
WATER SUPPLY
REGULATION SECTION

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

Method of shipment to the Laboratory Puralator

This form accompanies ✓ 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
___/___/___ - ___:___ (DATE AND TIME) and that the statements in this block are correct.
Evidentiary Seals: Not Sealed ☐ Seals Intact: Yes ☐ No ☐
Signatures _____ _____

(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 _____ _____

827-0020

ANALYSES REQUESTED LAB. No.: ORG-675

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
		Suspected petroleum			ORGANOPHOSPHATE PESTICIDES
					POLYCHLORINATED BIPHENYLS (PCB's)
					POLYNUCLEAR AROMATIC HYDROCARBONS
					TRIAZINE HERBICIDES
		SPECIFIC COMPOUNDS			SPECIFIC COMPOUNDS

REMARKS:

ANALYTICAL RESULTS

COMPOUND	[PPB]	COMPOUND	[PPM]
arom. purg. Screen	none detected	Methane in Headspace	490 ppm
halo. purg. screen	none detected	Ethane " "	13 "
		Propane " "	13 "
		Isobutane " "	3 "
		butane " "	4 "
		Isopentane " "	7 "
		Pentane " "	16 "
		* DETECTION LIMIT	1 mg/l

REMARKS:

Chromatographic fingerprint of headspace is consistent with that of natural gas

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: 6 June 86 & 6/6/86 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]

STATE OF NEW MEXICO
ENVIRONMENT Department

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

86-0675-C

(5)

705 Priority One ORS to 75 #5

REPORT TO: Roelf Ruffner
2120 N. Alto - EID
Hobbs 88240
397-5250

S.L.D. No.: OR- 52014
DATE REC.: 6/6/86
PHONE 397-5250
USER CODE: 5|2|0|1|4|

CONTAINERS WHICH ACCOMPANY THIS FORM ARE COLLECTIVELY REFERED TO AS SAMPLE.

SUBMITTER: Roelf Ruffner CODE: | | | | |

SAMPLE TYPE: WATER ☑, SOIL ☐, OTHER _____ CODE: | |

COLLECTED: 6/5/86 - 9:20AM (DATE AND TIME) BY R. Ruffner CODE: | | | | | | | | | | | | | | (Y Y M M D D H H M M I I I)

SOURCE: Monument well (New) CODE: | | | + | | | + | | | | | (AQUIFER + DEPTH)

NEARSET CITY: Monument CODE: | | | | | |

LOCATION: ~~Abo~~ North of Monument 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.)

As per conversation with Richard Asbury
Suspected petroleum in new Monument water well
My Home phone is 393-1867 or call Charles Ajuzeum at 393-3349

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

Method of shipment to the Laboratory Purolator

This form accompanies ✓ 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 ___/___/___ - ___:___ (DATE AND TIME) and that the statements in this block are correct.

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

Signatures _____ _____

(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 _____ _____

State of New Mexico
HEALTH and ENVIRONMENT DEPARTMENT
SCIENTIFIC
LABORATORY DIVISION

CHEMICAL and PHYSICAL ANALYSES for WATER SAMPLES

3

Priority 2 9-A

Date received 6/12/86 Lab No. WC-2565 SLD user code No. 50014

FOR PROPER PRESERVATION OF SAMPLES, CONSULT DEFINITIONS ON REVERSE. TYPE OR PRINT WITH BALL POINT PEN.

CHEMICAL ANALYSES: *Check individual items for analysis [Mark appropriate box(es)]*
INTERIM PRIMARY PARAMETER GROUP ☐ 1 ☐ 2 ☐ 3
TYPE of CHEMICAL ANALYSIS ☐ Complete Secondary ☐ Organic ☐ Radiological

Water Supply System Name	Water Supply System Code No.	City or Location	County	Check one:
New Monument Well	371-13	Monument	Lea	☐ TREATED WATER ☑ RAW WATER

Collection Date	Collection Time	Collection Point	Collector's remarks	Report to
6-10-86	7:35PM	wellhead		Oscar Simpson

Collected By	Owner	Address
D. Luttjens	Pettigrew	EID Water Supply Santa Fe

TYPE of SYSTEM (Check one): ☐ PRIVATE PUBLIC: ☑ Community ☐ Non-community

SOURCE: ☐ Spring ☐ Lake ☑ Well-Depth ☐ Drain ☐ Stream ☐ Pool ☐ Other (specify)

LAT. ° ' "
LONG ° ' "

CATIONS	mg/l	ANIONS	mg/l	PHYSICAL		HEAVY METALS	mg/l	PARAMETER		ORGANIC	mg/l
☑ 00930 Sodium (as Na)	648	☑ 00940 Chloride (as Cl)	5104	☑ 70300 Total Filterable Residue	mg/l 1750	☐ 01000 Arsenic				☐ 39390 Endrin	
☑ 00935 Potassium (as K)	624	☐ 00950 Fluoride (as F)		☐ 38260 Foaming Agents (as Las)		☐ 01005 Barium				☐ 39732 Lindane	
☑ 00900 Tot.Hardness (as $CaCO_3$)	700	☐ 00620 Nitrate (as N)		☑ 00095 Conductance Micromhos 25°C	1830	☐ 01025 Cadmium				☐ 38270 Methoxychlor	
☑ 00915 Calcium (as Ca)	296	☑ 00430 Alkalinity (as $CaCO_3$)	183	☑ 00400 pH	7.61	☐ 01030 Chromium		RADIOLOGICAL pCi/l ☐ 01501 Gross Alpha		☐ 39400 Toxaphene	
☑ 00925 Magnesium (as Mg)	307	☑ 00440 Bicarbonate (as HCO_3)	2235	☐ 01330 Odor		☐ 01049 Lead		☐ 03501 Gross Beta	pCi/l	☐ 39730 2,4-D	
☐ 01045 Iron-Total (as Fe)		☑ 00445 Carbonate (as CO_3)	00	☐ 00080 Color	mg/l	☐ 07180 Mercury		☐ 09501 Radium-226	pCi/l	☐ 39740 2,4,5-TP (Silvex)	
☑ 01056 Manganese (as Mn)		☑ 00945 Sulfate (as SO_4)	410	☐ 00070 Turbidity		☐ 01145 Selenium		☐ 11501 Radium-228	pCi/l		
						☐ 01075 Silver					

RECEIVED
JUL 10 1986
WATER SUPPLY
REGULATION SECTION

LABORATORY REMARKS:

Reviewed by Chris Dean
Date reported 6/30/86

SLD 702 Form Rev. 9/84

DISTRIBUTION: White - Water Supply Regulation, SF • Canary - WS System • Pink - EIA Regional Office • Goldenrod - SLD Lab

State of New Mexico
HEALTH and ENVIRONMENT DEPARTMENT
SCIENTIFIC
LABORATORY DIVISION

CHEMICAL and PHYSICAL ANALYSES for WATER SAMPLES

PN

Priority 2 (G-A)

Date received	Lab No.	SLD user code No.
6/12/86	HM 1097	50014

FOR PROPER PRESERVATION OF SAMPLES, CONSULT DEFINITIONS ON REVERSE. TYPE OR PRINT WITH BALL POINT PEN.

CHEMICAL ANALYSES: *Check individual items for analysis [Mark appropriate box(es)]*

INTERIM PRIMARY PARAMETER GROUP: ☐ 1 ☐ 2 ☐ 3 ☐ Complete Secondary

TYPE of CHEMICAL ANALYSIS: ☐ Organic ☐ Radiological

Water Supply System Name	Water Supply System Code No.	City or Location	County	Check one:
New Monument Well	371-13	Monument	Lea	☐ TREATED WATER ☑ RAW WATER

Collection Date	Collection Time	Collection Point	Collector's remarks	Report to
6-10-86	7:35 PM	wellhead	preserved	STUART / CASTLE

Collected By	Owner	Address
P. Lutjens	Pettigrew	EID-Water Supply Santa Fe

TYPE of SYSTEM *(Check one)*: ☐ PRIVATE PUBLIC: ☑ Community ☐ Non-community

SOURCE: ☐ Spring ☐ Lake ☑ Well-Depth ☐ Drain ☐ Stream ☐ Pool ☐ Other *(specify)*

LAT. ° ' "

LONG ° ' "

CATIONS	mg/l	ANIONS	mg/l	PHYSICAL		HEAVY METALS	mg/l	PARAMETER		ORGANIC	mg/l
00930 Sodium (as Na)		00940 Chloride (as Cl)		70300 Total Filterable Residue	mg/l	01000 Arsenic		X ICAP SCAN		39390 Endrin	
00935 Potassium (as K)		00950 Fluoride (as F)		38260 Foaming Agents (as Las)		01005 Barium				39732 Lindane	
00900 Tot. Hardness (as $CaCO_3$)		00620 Nitrate (as N)		00095 Conductance Micromhos 25°C		01025 Cadmium				38270 Methoxychlor	
00916 Calcium (as Ca)		00430 Alkalinity (as $CaCO_3$)		00400 pH		01030 Chromium		RADIOLOGICAL pCi/l 01501 Gross Alpha		39400 Toxaphene	
00925 Magnesium (as Mg)		00440 Bicarbonate (as HCO_3)		01330 Odor		01049 Lead		03501 Gross Beta	pCi/l	39730 2, 4-D	
01045 Iron-Total (as Fe)		00445 Carbonate (as CO_3)		00080 Color	mg/l	07180 Mercury		09501 Radium-226	pCi/l	39740 2, 4, 5-TP (Silvex)	
01056 Manganese (as Mn)		00945 Sulfate (as SO_4)		00070 Turbidity		01145 Selenium		11501 Radium-228	pCi/l		
						01075 Silver					

RECEIVED JUN 25 1986 WATER SUPPLY REGULATION SECTION

LABORATORY REMARKS:

Sample digested;
See attached sheet for ICAP SCAN

Reviewed by: Jim Ashley

Date reported: 6/23/86

SLD 702 Form Rev. 9/84

DISTRIBUTION: White - Water Supply Regulation, SF • Canary - WS System • Pink - EIA Regional Office • Goldenrod - SLD Lab

Lab Number: HM 1097
Sample Code: Pettigrew wellhead
Date Submitted: 6/12/86
Date Analyzed: 6/19/86
By: P Lutjens
Reviewed By: Jim Ashley
Date Reported: 6/23/86

Element	ICAP VALUE(MG/L)	AA VALUE(MG/L)
Aluminum	<0.1	
Barium	0.3	
Berylium	<0.1	
Boron	0.1	
Cadmium	<0.1	
Calcium	260.	
Chromium	<0.1	
Cobalt	<0.1	
Copper	<0.1	
Iron	0.3	
Lead	<0.1	
Magnesium	33.	
Manganese	<0.05	
Molybdenum	<0.1	
Nickel	<0.1	
Silicon	19.	
Silver	<0.1	
Strontium	1.8	
Tin	<0.1	
Vanadium	<0.1	
Zinc	<0.1	
Arsenic		
Selenium		
Mercury		

MONUMENT N.M.

MONUMENT REPLACEMENT WELL — WATER SAMPLES BY OCD
24 HR PUMP TEST

CHEMICAL PARAMETERS	DATE	6/16/86	6/16/86	6/16/86	6/16/86
	TIME	11 10 START	1140 30-MINUTES	1310 2 HRS	1720
	LAB #	86-755-C	86-0752-C	86-0753-C	86-0765-C
ORGANICS					
1) PURGABLES					
A) NATURAL GAS			N/D		N/D
METHANE		14 PPM		23 PPM	
ETHANE		TRACE		TRACE	
PROPANE		TRACE		TRACE	
B) AROMATICS		N/D	N/D	N/D	N/D
BENZENE					
TOLUENE					
XYLENES					
C) HALOGENATED		N/D	N/D	N/D	N/D
DECTION LIMIT		0.005 PPM	0.005 PPM	0.005 PPM	0.005 PPM
GENERAL CHEMISTRY					
CALCIUM			212 PPM		1646 PPM
MAGNESIUM			27.8 PPM		21.0 PPM
SODIUM			78.2 PPM		69 PPM
POTASSIUM			4.68 PPM		3.12 PPM
BICARBONATE			219 PPM		262 PPM
CHLORIDE			384 PPM		244 PPM
SULFATE			32.7 PPM		56.1 PPM
TOTAL FILTERABLE RESIDUE (TDS)			1555 PPM		1048 PPM
CO_3			0 PPM		0 PPM
CONDUCTIVITY (UMHO)			1450@23°C	1410@24°C	1230@25°C
NITRATE-N, NITRATE N TOTAL				2.38 PPM	2.2 PPM
AMMONIA N TOTAL				0.30 PPM	0.28 PPM
TOTAL KJELDAHL-N				0.500 PPM	0.57 PPM

NOTE: SAMPLES COLLECTED ON 6/16 & 17 AND DELIVERED TO LABS ON 6-20-86

SAMPLES: 1) 86-755-C HAD A SMALL BUBBLE IN HEADSPACE COLLECTED 6/16/86 ANAL. 7/2 6/27/86
2) 86-752-C " " " " " " " 6/16/86 ANAL. DES 7/7 6
3) 86-753-C " " " " " " " 6/16/86 [illegible]

MONUMENT N. M.

MONUMENT REPLACEMENT WELL - WATER SAMPLES FROM DST
24 HR PUMP TEST

CHEMICAL PARAMETERS	DATE / TIME / LAB #	6/16/86 1510 86-0754-C	6/16/86 1910 86-0757-C	6/17/86 0730 86-0751-C	6/17/86 LAST 10 G 86-0756-C
ORGANICS					
1) PURGABLES					
A) NATURAL GAS			N/D		
METHANE		16 PPM		81 PPM	70 PPM
ETHANE		TRACE		1.2 PPM	TRACE
PROPANE		TRACE			9 PPM
B) AROMATICS		N/D	N/D	N/D	N/D
BENZENE					
TOLUENE					
XYLENES					
C) HALOGENATED		N/D	—	N/D	N/D
DECTION LIMIT		0.005 PPM	0.005 PPM	0.001 PPM	5 PPM
GENERAL CHEMISTRY					
CALCIUM				247 PPM	
MAGNESIUM				35.8 PPM	
SODIUM				87.4 PPM	
POTASSIUM				4.68 PPM	
BICARBONATE				224 PPM	
CHLORIDE				558 PPM	
SULFATE				67.2 PPM	
TOTAL FILTERABLE RESIDUE (TDS)				1913 PPM	
CO_3				0 PPM	
CONDUCTIVITY (UMHO)				16.00 @ 20°C	
NITRATE-N^+, NITROGEN, N, TOTAL					
AMMONIA N, TOTAL					
TOTAL KJEIDAHL-N					

NOTE: SAMPLES COLLECTED ON 6/16 & 17/86 ANALYZED TODAY

SAMPLES: 1) 86-0754-C HAD A SMALL BUBBLE OF HEADSPACE COLLECTED 6/16 ANALYZED 6/27
2) 86-0757-C " " " " " " " " " "
NO DATA ON HALOGENATED SEPTUM UPSIDE DOWN
3) 86-0751-C HAD A SMALL BUBBLE OF HEADSPACE COLLECTED 6/17 ANALYZED 6/27
4) 86-0756-C " " " " " " " " 6/16 "

86-0755-C

SCIENTIFIC LABORATORY DIVISION

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

STATE OF NEW MEXICO
ENVIRONMENT

REPORT TO: David Boyer
N.M. Oil Conservation Division
P. O. Box 2088
Santa Fe, N.M. 87504-2088
PHONE(S): 827-5812

S.L.D. No. OR-755-A,B
DATE REC. 6/20/86
PRIORITY 2
USER CODE: 8 2 2 3 5

SUBMITTER: David Boyer
CODE: 2 6 0

SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 8 6 0 6 1 6 1 1 1 0 4 8

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

COUNTY: LEA; CITY: MONUMENT CODE: _____

LOCATION CODE: (Township-Range-Section-Tracts) 1 9 S + 3 7 E + 2 0 + 1 2 2 (10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- [ ] (753) Aliphatic Purgeables (1-3 Carbons)
- [X] (754) Aromatic & Halogenated Purgeables
- [ ] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes

Other Specific Compounds or Classes

- [X] HEAD TEST
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (760) Organochlorine Pesticides
- [ ] (755) Base/Neutral Extractables
- [ ] (758) Herbicides, Chlorophenoxy acid
- [ ] (759) Herbicides, Triazines
- [ ] (760) Organochlorine Pesticides
- [ ] (761) Organophosphate Pesticides
- [ ] (767) Polychlorinated Biphenyls (PCB's)
- [ ] (764) Polynuclear Aromatic Hydrocarbons
- [ ] (762) SDWA Pesticides & Herbicides

Remarks: 1st SAMPLE of 24 HR TEST

FIELD DATA:

pH=_____; Conductivity=1150 umho/cm at 23 °C; Chlorine Residual=_____ mg/l

Dissolved Oxygen=_____ mg/l; Alkalinity=_____ mg/l; Flow Rate_____ _____/_____

Depth to water _____ ft.; Depth of well_____ ft.; Perforation Interval _____-_____ ft.; Casing:_____

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

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): D. Bailey Method of Shipment to the Lab: Hand-carried

This form accompanies 2 Septum Vials, _____ Glass Jugs, and/or _____ _____

Samples were preserved as follows:

- [ ] 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 Sodium Thiosulfate to remove chlorine residual.

CHAIN OF CUSTODY

I certify that this sample was transferred from D. Bailey to A. Burney

at (location) SLD on 6/20/86 - 09:30 and that the statements in this block are correct. Evidentiary Seals: Not Sealed [ ] Seals Intact: Yes [X] No [ ]

Signatures D. Bailey A S Burney

For OCD Use: Date Owner Notified _____ Phone or Letter?_____ Initials _____

ANALYSES PERFORMED

LAB. No.: OR- 755

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- [x] (753) Aliphatic Purgeables (1-3 Carbons)
- [x] (754) Aromatic & Halogenated Purgeables
- [ ] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes

Other Specific Compounds or Classes

- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (760) Organochlorine Pesticides
- [ ] (755) Base/Neutral Extractables
- [ ] (758) Herbicides, Chlorophenoxy acid
- [ ] (759) Herbicides, Triazines
- [ ] (760) Organochlorine Pesticides
- [ ] (761) Organophosphate Pesticides
- [ ] (767) Polychlorinated Biphenyls (PCB's)
- [ ] (764) Polynuclear Aromatic Hydrocarbons
- [ ] (762) SDWA Pesticides & Herbicides

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
Methane	14 ppm		
Ethane	T.R.		
Propane	T.R.		
aromatic purgeables +	N.D.		
halogenated purgeables +	ND		
* DETECTION LIMIT *	5 ppm	+ DETECTION LIMIT +	1 ppb

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT

T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)

[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS: This sample had a small bubble of headspace

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes [x] No [ ] Seal(s) broken by: K.A. Finney C.S. Beasley date: 6/27/86 24 June 86

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

Date(s) of analysis: 6/27/86 July 86 Analyst's signature: C.S. Beasley K.A. Finney

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block.

Reviewers signature: Gary C. Eden

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

859
899

PRIORITY 2

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED: 6 | 20 | 86	LAB NO. WC-2784	USER CODE ☐ 59300 ☐ 59600 ☒ OTHER: 82235	
Collection DATE: 6 | 16 | 86	SITE INFORM-ATION ►	Sample location: MONUMENT NEW WELL	
Collection TIME: 1140		Collection site description:	
Collected by — Person/Agency: BAILEY / SEAY / OCD			

SEND FINAL REPORT TO ►

ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg, PO Box 2088
Santa Fe, NM 87504-2088

Attn: David Boyer

Phone: 827-5812

Station/ well code:

Owner:

SAMPLING CONDITIONS

☐ Bailed ☐ Dipped ☒ Pump ☐ Tap	Water level	Discharge	Sample type
pH (00400)	Conductivity (Uncorrected) 1450 µmho	Water Temp. (00010) 23 °C	Conductivity at 25°C (00094) µmho

Field comments: 30 MIN. INTO TEST

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:* ☐ A: 5ml conc. HNO_3 added ☐ A: 4ml fuming HNO_3 added

ANALYTICAL RESULTS from SAMPLES

(NF)

NF, NA	Units	Date analyzed	F, NA		Units	Date analyzed
☐ Conductivity (Corrected) 25°C (00095)	µmho		☒ Calcium (00915)	212	mg/l	6-23
☐ Total non-filterable residue (suspended) (00530)	mg/l		☒ Magnesium (00925)	27.8	mg/l	"
☐ Other:			☒ Sodium (00930)	78.2	mg/l	"
☐ Other:			☒ Potassium (00935)	4.68	mg/l	"
☐ Other:			☒ Bicarbonate (00440)	219	mg/l	6/24
			☒ Chloride (00940)	384	mg/l	7/11
			☒ Sulfate (00945)	32.7	mg/l	7/15
			☒ Total filterable residue (dissolved) (70300)	1555	mg/l	6/30
			☒ Other: CO_3	0		6/24

NF, A-H_2SO_4	Units	Date analyzed	F, A-H_2SO_4	Units	Date analyzed
☐ Nitrate-N +, Nitrate-N total (00630)	mg/l		☐ Nitrate-N +, Nitrate-N dissolved (00631)	mg/l	
☐ Ammonia-N total (00610)	mg/l		☐ Ammonia-N dissolved (00608)	mg/l	
☐ Total Kjeldahl-N ( )	mg/l		☐ Total Kjeldahl-N ( )	mg/l	
☐ Chemical oxygen demand (00340)	mg/l		☐ Other:		
☐ Total organic carbon ( )	mg/l				
☐ Other:					
☐ Other:					

Analyst	Date Reported	Reviewed by
	7 | 16 | 86	CW

Laboratory remarks:

FOR OCD USE -- Date Owner Notified _____ Phone or Letter? _____ Initals _____

107

86-0756-C

SCIENTIFIC LABORATORY DIVISION

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

HEALTH ENVIRONMENT — STATE OF NEW MEXICO

REPORT TO: David Boyer
N.M. Oil Conservation Division
P. O. Box 2088
Santa Fe, N.M. 87504-2088
PHONE(S): 827-5812

S.L.D. No. OR-756-A.B
DATE REC. 6/20/86
PRIORITY 2
USER CODE: 8 2 2 3 5

SUBMITTER: David Boyer
CODE: 2 6 0

SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 8 6 0 6 1 7 1 1 0 0 4 B

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

COUNTY: LEA ; CITY: MONUMENT CODE: _____

LOCATION CODE: (Township-Range-Section-Tracts) 1 9 S + 3 7 E + 2 0 + 1 2 2 (10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- [ ] (753) Aliphatic Purgeables (1-3 Carbons)
- [X] (754) Aromatic & Halogenated Purgeables
- [ ] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes

Other Specific Compounds or Classes

- [X] HEAD SPACE
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (760) Organochlorine Pesticides
- [ ] (755) Base/Neutral Extractables
- [ ] (758) Herbicides, Chlorophenoxy acid
- [ ] (759) Herbicides, Triazines
- [ ] (760) Organochlorine Pesticides
- [ ] (761) Organophosphate Pesticides
- [ ] (767) Polychlorinated Biphenyls (PCB's)
- [ ] (764) Polynuclear Aromatic Hydrocarbons
- [ ] (762) SDWA Pesticides & Herbicides

Remarks: LAST SAMPLE of TEST

FIELD DATA:

pH=_____; Conductivity=1610 umho/cm at 22 °C; Chlorine Residual=_____ mg/l

Dissolved Oxygen=_____ mg/l; Alkalinity=_____ mg/l; Flow Rate_____ ____/____

Depth to water _____ ft.; Depth of well_____ ft.; Perforation Interval _____-_____ ft.; Casing:_____

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

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): J Bailey Method of Shipment to the Lab: Hand carried

This form accompanies 2 Septum Vials, _____ Glass Jugs, and/or _____ _____

Samples were preserved as follows:

- [ ] 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 Sodium Thiosulfate to remove chlorine residual.

CHAIN OF CUSTODY

I certify that this sample was transferred from J. Bailey to A. Burney

at (location) SLD on 6/20/86 - 09:30 and that the statements in this block are correct. Evidentiary Seals: Not Sealed [ ] Seals Intact: Yes [X] No [ ]

Signatures J. Bailey A S Burney

For OCD Use: Date Owner Notified _____ Phone or Letter?_____ Initials _____

ANALYSES PERFORMED

LAB. No.: OR- 756

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- [x] (753) Aliphatic Purgeables (1-3 Carbons)
- [x] (754) Aromatic & Halogenated Purgeables
- [ ] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes

Other Specific Compounds or Classes

- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (760) Organochlorine Pesticides
- [ ] (755) Base/Neutral Extractables
- [ ] (758) Herbicides, Chlorophenoxy acid
- [ ] (759) Herbicides, Triazines
- [ ] (760) Organochlorine Pesticides
- [ ] (761) Organophosphate Pesticides
- [ ] (767) Polychlorinated Biphenyls (PCB's)
- [ ] (764) Polynuclear Aromatic Hydrocarbons
- [ ] (762) SDWA Pesticides & Herbicides

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC.	COMPOUND(S) DETECTED	CONC. [PPB]
Methane	70ppm		
Ethane	T.R.		
Propane	9ppm		
aromatic purgeables	N.D +		
halogenated purgeables	N.D +		
* DETECTION LIMIT *	5ppm	+ DETECTION LIMIT +	1 ppb

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT

T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)

[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS: This sample had a small bubble of headspace.

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes [x] No [ ]. Seal(s) broken by: A. Tinney C. Burney Date: 24 June 86 6/27/86

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

Date(s) of analysis: 6/27/86 July 86 Analyst's signature: C. S. Burney A. Tinney

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block.

Reviewers signature: Mary C. Eden

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

859
999

PRIORITY 2

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED 6 20 86	LAB NO. WC-2779	USER CODE ☐ 59300 ☐ 59600 ☒ OTHER: 82235	
Collection DATE 6 17 86	SITE INFORMATION ►	Sample location MONUMENT NEW WELL	
Collection TIME 0730		Collection site description	
Collected by — Person/Agency BAILEY / SEAY / OCD			

SEND FINAL REPORT TO ►

ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg, PO Box 2088
Santa Fe, NM 87504-2088

Attn: David Boyer

Phone: 827-5812

Station/ well code

Owner

SAMPLING CONDITIONS

☐ Bailed ☒ Pump ☐ Dipped ☐ Tap	Water level	Discharge	Sample type
pH (00400)	Conductivity (Uncorrected) 1600 µmho	Water Temp. (00010) 20 °C	Conductivity at 25°C (00094) µmho

Field comments: 20 HRS INTO TEST

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:* ☐ A: 5ml conc. HNO_3 added ☐ A: 4ml fuming HNO_3 added

ANALYTICAL RESULTS from SAMPLES

(NF)

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)	247	mg/l	6/27
☒ Magnesium (00925)	35.8	mg/l	"
☒ Sodium (00930)	87.4	mg/l	"
☒ Potassium (00935)	4.68	mg/l	"
☒ Bicarbonate (00440)	234	mg/l	6/24
☒ Chloride (00940)	558	mg/l	7/11
☒ Sulfate (00945)	67.2	mg/l	7/15
☒ Total filterable residue (dissolved) (70300)	1913	mg/l	6/30
☒ Other: CO_3	0		6/24

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
	7 16 86	CD

Laboratory remarks

SLD 726 (12/84)

91

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

86- 0751-C

SCIENTIFIC LABORATORY DIVISION

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

STATE OF NEW MEXICO
HEALTH ENVIRONMENT

REPORT TO: David Boyer
N.M. Oil Conservation Division
P. O. Box 2088
Santa Fe, N.M. 87504-2088
PHONE(S): 827-5812

S.L.D. No. OR- 751-A,B
DATE REC. 6/20/86
PRIORITY 2
USER CODE: 8 2 2 3 5

SUBMITTER: David Boyer
CODE: 2 6 0

SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 8 6 0 6 1 7 0 7 3 0 SB

SAMPLE TYPE: WATER ☒, SOIL ☐, FOOD ☐, OTHER:_____ CODE:_____

COUNTY: LEA ; CITY: MONUMENT CODE:_____

LOCATION CODE: (Township-Range-Section-Tracts) 1 9 S + 3 7 E + 2 0 + 1 2 2 4 (10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- ☐ (753) Aliphatic Purgeables (1-3 Carbons)
- ☒ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes

Other Specific Compounds or Classes

- ☒ HEAD SPACE
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (760) Organochlorine Pesticides
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

Remarks:_____

FIELD DATA:

pH=_____; Conductivity= 1600 umho/cm at 20 °C; Chlorine Residual=_____mg/l

Dissolved Oxygen=_____mg/l; Alkalinity=_____mg/l; Flow Rate_____ ____/____

Depth to water _____ft.; Depth of well_____ft.; Perforation Interval _____-_____ft.; Casing:_____

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

20 HRS INTO TEST

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): J. Bailey Method of Shipment to the Lab: Hand carried

This form accompanies 2 Septum Vials, ____ Glass Jugs, and/or ____ _____

Samples were preserved as follows:

- ☐ 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 Sodium Thiosulfate to remove chlorine residual.

CHAIN OF CUSTODY

I certify that this sample was transferred from J. Bailey to A. Burney

at (location) SLD on 6/20/86 - 09:30 and that the statements in this block are correct. Evidentiary Seals: Not Sealed ☐ Seals Intact: Yes ☒ No ☐

Signatures J. Bailey A. Burney

For OCD Use: Date Owner Notified _____ Phone or Letter?_____ Initials ____

ANALYSES PERFORMED

LAB. No.: OR- 751

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- [x] (753) Aliphatic Purgeables (1-3 Carbons)
- [x] (754) Aromatic & Halogenated Purgeables
- [ ] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes

Other Specific Compounds or Classes

- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (760) Organochlorine Pesticides
- [ ] (755) Base/Neutral Extractables
- [ ] (758) Herbicides, Chlorophenoxy acid
- [ ] (759) Herbicides, Triazines
- [ ] (760) Organochlorine Pesticides
- [ ] (761) Organophosphate Pesticides
- [ ] (767) Polychlorinated Biphenyls (PCB's)
- [ ] (764) Polynuclear Aromatic Hydrocarbons
- [ ] (762) SDWA Pesticides & Herbicides

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [DETECTION LIMIT]	COMPOUND(S) DETECTED	CONC. [DETECTION LIMIT]
NATURAL GAS			
METHANE	81 ppm		
ETHANE	1.2 ppm		
PROPANE	T.R.		
aromatic purgeables*	ND		
halogenated purgeables*	ND		
* DETECTION LIMIT *	* µgm/ℓ	+ DETECTION LIMIT +	+ 5 ppm

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT
T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)
[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS: This sample had a small bubble of headspace.

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes [x] No [x]. Seal(s) broken by: J.M. Tinney A.S. Bursey date: 6/27/86 24 June 86

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

Date(s) of analysis: 6/27/86 July 86 Analyst's signature: A.S. Bursey J.M. Tinney

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block.

Reviewers signature: Mary C. Eden

86-0757-C

SCIENTIFIC LABORATORY DIVISION

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

STATE OF NEW MEXICO
HEALTH ENVIRONMENT

REPORT TO: David Boyer
N.M. Oil Conservation Division
P. O. Box 2088
Santa Fe, N.M. 87504-2088
PHONE(S): 827-5812

S.L.D. No. OR-757-A-B
DATE REC. 6/20/86
PRIORITY 2
USER CODE: 8 2 2 3 5

SUBMITTER: David Boyer
CODE: 2 6 0

SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 8 6 0 6 1 6 1 9 1 0 <B

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

COUNTY: LEA ; CITY: MONUMENT CODE: ____

LOCATION CODE: (Township-Range-Section-Tracts) 1 9 S + 3 7 E + 2 0 + 1 2 2 (10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- [ ] (753) Aliphatic Purgeables (1-3 Carbons)
- [X] (754) Aromatic & Halogenated Purgeables
- [ ] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes

Other Specific Compounds or Classes

- [X] HEAD SPACE
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (760) Organochlorine Pesticides
- [ ] (755) Base/Neutral Extractables
- [ ] (758) Herbicides, Chlorophenoxy acid
- [ ] (759) Herbicides, Triazines
- [ ] (760) Organochlorine Pesticides
- [ ] (761) Organophosphate Pesticides
- [ ] (767) Polychlorinated Biphenyls (PCB's)
- [ ] (764) Polynuclear Aromatic Hydrocarbons
- [ ] (762) SDWA Pesticides & Herbicides

Remarks: 8 HRS INTO TEST

FIELD DATA:

pH=_____; Conductivity=1780 umho/cm at 22 °C; Chlorine Residual=_____ mg/l

Dissolved Oxygen=_____ mg/l; Alkalinity=_____ mg/l; Flow Rate_____ ____/____

Depth to water _____ ft.; Depth of well_____ ft.; Perforation Interval _____-_____ ft.; Casing:_____

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

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): J Bailey Method of Shipment to the Lab: Hand carried

This form accompanies 2 Septum Vials, 1 Glass Jugs, and/or _____ _____

Samples were preserved as follows:

- [ ] 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 Sodium Thiosulfate to remove chlorine residual.

CHAIN OF CUSTODY

I certify that this sample was transferred from J. BAILEY to A. Bussey

at (location) SLD on 6/20/86 - 09:30 and that the statements in this block are correct. Evidentiary Seals: Not Sealed [ ] Seals Intact: Yes [X] No [ ]

Signatures J. Bailey A Bussey

For OCD Use: Date Owner Notified _____ Phone or Letter?_____ Initials ____

ANALYSES PERFORMED

LAB. NO.: OR- 757

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- [x] (753) Aliphatic Purgeables (1-3 Carbons)
- [x] (754) Aromatic & Halogenated Purgeables
- [ ] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes

Other Specific Compounds or Classes

- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (760) Organochlorine Pesticides
- [ ] (755) Base/Neutral Extractables
- [ ] (758) Herbicides, Chlorophenoxy acid
- [ ] (759) Herbicides, Triazines
- [ ] (760) Organochlorine Pesticides
- [ ] (761) Organophosphate Pesticides
- [ ] (767) Polychlorinated Biphenyls (PCB's)
- [ ] (764) Polynuclear Aromatic Hydrocarbons
- [ ] (762) SDWA Pesticides & Herbicides

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
Natural gas	N.D.		
aromatic purgeables	ND+		
halogenated purgeables	⊛ No Data		
* DETECTION LIMIT * ✳	5 ppm	+ DETECTION LIMIT + +	1 ppb

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT
T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)
[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS: This sample had a small bubble of headspace. A trace of furanone was detected by the aromatic screen. ⊛ The septum was upside-down on one of the two duplicate samples.

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes [x] No [x]. Seal(s) broken by: J.M. Finney C.S. Beesley date: 21 June 86 6/27/86

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

Date(s) of analysis: 6/27/86 7 July 86 Analyst's signature: C.S. Beesley J.M. Finney

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block.

Reviewers signature: Mary C. Eder

86- 0754-C

SCIENTIFIC LABORATORY DIVISION

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

STATE OF NEW MEXICO
HEALTH ENVIRONMENT

REPORT TO: David Boyer
N.M. Oil Conservation Division
P. O. Box 2088
Santa Fe, N.M. 87504-2088
PHONE(S): 827-5812

S.L.D. No. OR- 754- H.B
DATE REC. 6/20/86
PRIORITY 2
USER CODE: 8 2 2 3 5
SUBMITTER: David Boyer
CODE: 2 6 0

SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 8 6 0 6 1 6 1 5 1 0 4 1 3

SAMPLE TYPE: WATER ☒, SOIL ☐, FOOD ☐, OTHER: _____ CODE: _____

COUNTY: LEA ; CITY: MONUMENT CODE: _____

LOCATION CODE: (Township-Range-Section-Tracts) 1 9 S + 3 7 E + 2 0 + 1 2 2 (10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- ☐ (753) Aliphatic Purgeables (1-3 Carbons)
- ☒ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes

Other Specific Compounds or Classes

- ☒ HEAD SPACE
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (760) Organochlorine Pesticides
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

Remarks: 4 HRS INTO TEST

FIELD DATA:

pH=_____; Conductivity=_____umho/cm at _____°C; Chlorine Residual=_____mg/l

Dissolved Oxygen=_____mg/l; Alkalinity=_____mg/l; Flow Rate_____ _____/_____

Depth to water _____ft.; Depth of well_____ft.; Perforation Interval _____-_____ft.; Casing:_____

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

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): J. Bailey Method of Shipment to the Lab: Hand carried

This form accompanies 2 Septum Vials, 1 Glass Jugs, and/or _____ _____

Samples were preserved as follows:

- ☐ 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 Sodium Thiosulfate to remove chlorine residual.

CHAIN OF CUSTODY

I certify that this sample was transferred from J. Bailey to A. Burney at (location) SLD on 6/20/86 - 09:30 and that the statements in this block are correct. Evidentiary Seals: Not Sealed ☐ Seals Intact: Yes ☒ No ☐

Signatures J. Bailey A S Burney

For OCD Use: Date Owner Notified _____ Phone or Letter?_____ Initials _____

ANALYSES PERFORMED

LAB. No.: OR- 754

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- [x] (753) Aliphatic Purgeables (1-3 Carbons)
- [x] (754) Aromatic & Halogenated Purgeables
- [ ] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes

Other Specific Compounds or Classes

- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (760) Organochlorine Pesticides
- [ ] (755) Base/Neutral Extractables
- [ ] (758) Herbicides, Chlorophenoxy acid
- [ ] (759) Herbicides, Triazines
- [ ] (760) Organochlorine Pesticides
- [ ] (761) Organophosphate Pesticides
- [ ] (767) Polychlorinated Biphenyls (PCB's)
- [ ] (764) Polynuclear Aromatic Hydrocarbons
- [ ] (762) SDWA Pesticides & Herbicides

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
Natural Gas			
Methane	16 ppm		
Ethane	T.R.		
Propane	T.R		
aromatic purgeables +	ND		
halogenated purgeables +	ND		
* DETECTION LIMIT *	5 ppm	+ DETECTION LIMIT +	1 ppb

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT

T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)

[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS: This sample had a small bubble of headspace.

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes [x] No [x] Seal(s) broken by: J.A. Tunney C.S. Beesley date: 24 June 86 6/27/86

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

Date(s) of analysis: 6/27/86 7 July 86 Analyst's signature: C.S. Beesley J.A. Tunney

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block.

Reviewers signature: Gary C. Eden

86- 0753-C

SCIENTIFIC LABORATORY DIVISION

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

HEALTH ENVIRONMENT — STATE OF NEW MEXICO

REPORT TO: David Boyer
N.M. Oil Conservation Division
P. O. Box 2088
Santa Fe, N.M. 87504-2088
PHONE(S): 827-5812

S.L.D. No. OR-753-A.B
DATE REC. 6-20-86
PRIORITY 2
USER CODE: 8 2 2 3 5
SUBMITTER: David Boyer
CODE: 2 6 0

SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 8 6 0 6 1 6 1 3 1 0 [illegible]

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

COUNTY: LEA ; CITY: MONUMENT CODE: ____

LOCATION CODE: (Township-Range-Section-Tracts) T 19 S + R 37 E + S 20 + 1 2 2 (10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- [ ] (753) Aliphatic Purgeables (1-3 Carbons)
- [X] (754) Aromatic & Halogenated Purgeables
- [ ] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes

Other Specific Compounds or Classes

- [X] HEAD SPACE
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (760) Organochlorine Pesticides
- [ ] (755) Base/Neutral Extractables
- [ ] (758) Herbicides, Chlorophenoxy acid
- [ ] (759) Herbicides, Triazines
- [ ] (760) Organochlorine Pesticides
- [ ] (761) Organophosphate Pesticides
- [ ] (767) Polychlorinated Biphenyls (PCB's)
- [ ] (764) Polynuclear Aromatic Hydrocarbons
- [ ] (762) SDWA Pesticides & Herbicides

Remarks: MONUMENT NEW WELL 4TH SAMPLE. ~ 2HRS INTO TEST

FIELD DATA:

pH=_____; Conductivity=1510 umho/cm at 25 °C; Chlorine Residual=_____mg/l

Dissolved Oxygen=_____mg/l; Alkalinity=_____mg/l; Flow Rate_____ ____/____

Depth to water _____ft.; Depth of well_____ft.; Perforation Interval _____-_____ft.; Casing:_____

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

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): J. Bailey Method of Shipment to the Lab: Hand carried

This form accompanies 2 Septum Vials, 1 Glass Jugs, and/or ____ _____

Samples were preserved as follows:

- [ ] 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 Sodium Thiosulfate to remove chlorine residual.

CHAIN OF CUSTODY

I certify that this sample was transferred from J. Bailey to Q. Burney

at (location) SLD on 6/20/86 - 09:30 and that the statements in this block are correct. Evidentiary Seals: Not Sealed [ ] Seals Intact: Yes [X] No [ ]

Signatures J. Bailey Q. Burney

For OCD Use: Date Owner Notified _____ Phone or Letter?_____ Initials ____

ANALYSES PERFORMED

LAB. No.: OR- 753

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- [x] (753) Aliphatic Purgeables (1-3 Carbons)
- [x] (754) Aromatic & Halogenated Purgeables
- [ ] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes

Other Specific Compounds or Classes

- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (760) Organochlorine Pesticides
- [ ] (755) Base/Neutral Extractables
- [ ] (758) Herbicides, Chlorophenoxy acid
- [ ] (759) Herbicides, Triazines
- [ ] (760) Organochlorine Pesticides
- [ ] (761) Organophosphate Pesticides
- [ ] (767) Polychlorinated Biphenyls (PCB's)
- [ ] (764) Polynuclear Aromatic Hydrocarbons
- [ ] (762) SDWA Pesticides & Herbicides

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
Natural Gas			
Methane	23ppm		
Ethane	T.R.		
Propane	T.R.		
aromatic purgeables+	ND		
halogenated purgeables+	ND		
* DETECTION LIMIT *	5ppm	+ DETECTION LIMIT +	1ppb

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT
T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)
[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS: This sample had a small bubble of headspace.

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes [x] No [x]. Seal(s) broken by: J.T. Tinney C.S. Burney date: 6/27/86 24 June 86

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

Date(s) of analysis: 6/27/86 July 86 Analyst's signature: C.S. Burney J.T. Tinney

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block.

Reviewers signature: Gary C. Eden

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

852 999 PRIORITY 2

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED 6 20 86	LAB NO. WC-2776	USER CODE ☐ 59300 ☐ 59600 ☒ OTHER: 82235	
Collection DATE 6 16 86	SITE INFORM-ATION ►	Sample location MONUMENT - NEW WELL	
Collection TIME 1210		Collection site description	
Collected by — Person/Agency BAILEY / SEAY /OCD			

SEND FINAL REPORT TO ►

ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg, PO Box 2088
Santa Fe, NM 87504-2088

Attn: David Boyer

Phone: 827-5812

Station/ well code

Owner

SAMPLING CONDITIONS

☐ Bailed ☒ Pump ☐ Dipped ☐ Tap	Water level	Discharge	Sample type
pH (00400)	Conductivity (Uncorrected) 1410 µmho	Water Temp. (00010) 24 °C	Conductivity at 25°C (00094) µmho

Field comments 1 HR INTO TEST

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:* ☐ A: 5ml conc. HNO_3 added ☐ A: 4ml fuming HNO_3 added

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)	2.38	mg/l	7/1
☒ Ammonia-N total (00610)	0.30	mg/l	6-29
☒ Total Kjeldahl-N ( )	0.50	mg/l	7-16
☐ 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
	7 16 86	CW

Laboratory remarks

FOR OCD USE -- Date Owner Notified _____ Phone or Letter? _____ Initals _____

86-0750-C

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

AUG 11
OIL CONSERVATION DIVISION
SANTA FE

HEALTH ENVIRONMENT
STATE OF NEW MEXICO

REPORT TO: David Boyer
N.M. Oil Conservation Division
P. O. Box 2088
Santa Fe, N.M. 87504-2088

S.L.D. No. OR-750-FB
DATE REC. 6/20/86
PRIORITY 2

PHONE(S): 827-5812
USER CODE: 82235
SUBMITTER: David Boyer
CODE: 260

SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 860616/2103

SAMPLE TYPE: WATER ☒, SOIL ☐, FOOD ☐, OTHER:_____ CODE:_____

COUNTY: LEA ; CITY: MONUMENT CODE:_____

LOCATION CODE: (Township-Range-Section-Tracts) /19S+37E+20+/12/2 (10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- ☒ (753) Aliphatic Purgeables (1-3 Carbons)
- ☑ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes

Other Specific Compounds or Classes

- ☒ HEAD TEST
- ☐
- ☐
- ☐
- ☐

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (760) Organochlorine Pesticides
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

Remarks: MONUMENT NEW WELL 3RD SAMPLE - 1HR INTO TEST

FIELD DATA:

pH=_____; Conductivity=1410 umho/cm at 24 °C; Chlorine Residual=_____ mg/l

Dissolved Oxygen=_____mg/l; Alkalinity=_____mg/l; Flow Rate_____ _____/_____

Depth to water _____ft.; Depth of well_____ft.; Perforation Interval _____-_____ft.; Casing:_____

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

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): J Bailey Method of Shipment to the Lab: Hand carried

This form accompanies 2 Septum Vials, _____ Glass Jugs, and/or _____ _____

Samples were preserved as follows:

- ☐ 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 Sodium Thiosulfate to remove chlorine residual.

CHAIN OF CUSTODY

I certify that this sample was transferred from J. Bailey to A. Burney

at (location) SLD sample Receiving on 6/20/86 - 9:32 AM and that the statements in this block are correct. Evidentiary Seals: Not Sealed ☐ Seals Intact: Yes ☑ No ☐

Signatures A S Burney J Bailey

For OCD Use: Date Owner Notified _____ Phone or Letter?_____ Initials _____

ANALYSES PERFORMED

LAB. No.: OR- 750

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- [x] (753) Aliphatic Purgeables (1-3 Carbons)
- [x] (754) Aromatic & Halogenated Purgeables
- [ ] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes

Other Specific Compounds or Classes

- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (760) Organochlorine Pesticides
- [ ] (755) Base/Neutral Extractables
- [ ] (758) Herbicides, Chlorophenoxy acid
- [ ] (759) Herbicides, Triazines
- [ ] (760) Organochlorine Pesticides
- [ ] (761) Organophosphate Pesticides
- [ ] (767) Polychlorinated Biphenyls (PCB's)
- [ ] (764) Polynuclear Aromatic Hydrocarbons
- [ ] (762) SDWA Pesticides & Herbicides

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC.	COMPOUND(S) DETECTED	CONC.
Natural Gas	N.D.		
aromatic purgeables*	ND		
halogenated purgeables*	ND		
* DETECTION LIMIT *	1 ug/m/l	+ DETECTION LIMIT +	5 ppm

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT

T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)

[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS: This sample had a small bubble of headspace.

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes [x] No [x]. Seal(s) broken by: J.H. Tinney C.S. Burney date: 24 June 86 6/27/86

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

Date(s) of analysis: 7 July 86 6/27/86. Analyst's signature: C.S. Burney J.H. Tinney

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block.

Reviewers signature: Gary C. Eden

86-0752-C

SCIENTIFIC LABORATORY DIVISION

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

HEALTH ENVIRONMENT — STATE OF NEW MEXICO

REPORT TO: David Boyer
N.M. Oil Conservation Division
P. O. Box 2088
Santa Fe, N.M. 87504-2088
PHONE(S): 827-5812

S.L.D. No. OR-752-H.B
DATE REC. 6/20/86
PRIORITY 2
USER CODE: 8 2 2 3 5
SUBMITTER: David Boyer CODE: 2 6 0

SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 8 6 0 6 1 6 1 1 4 0 <73

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

COUNTY: LEA ; CITY: MONUMENT CODE: ___

LOCATION CODE: (Township-Range-Section-Tracts) 1 9 S + 3 7 E + 2 0 + 1 2 2 (10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- [ ] (753) Aliphatic Purgeables (1-3 Carbons)
- [X] (754) Aromatic & Halogenated Purgeables
- [ ] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes

Other Specific Compounds or Classes

- [X] HEAD TEST
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (760) Organochlorine Pesticides
- [ ] (755) Base/Neutral Extractables
- [ ] (758) Herbicides, Chlorophenoxy acid
- [ ] (759) Herbicides, Triazines
- [ ] (760) Organochlorine Pesticides
- [ ] (761) Organophosphate Pesticides
- [ ] (767) Polychlorinated Biphenyls (PCB's)
- [ ] (764) Polynuclear Aromatic Hydrocarbons
- [ ] (762) SDWA Pesticides & Herbicides

Remarks: MONUMENT NEW WELL 2ND SAMPLE
30 MIN INTO TEST

FIELD DATA:

pH=_____; Conductivity=1450 umho/cm at 23 °C; Chlorine Residual=_____ mg/l

Dissolved Oxygen=_____ mg/l; Alkalinity=_____ mg/l; Flow Rate_____ ____/____

Depth to water _____ ft.; Depth of well_____ ft.; Perforation Interval _____-_____ ft.; Casing:_____

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

24 HR pump test

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): J. Bailey Method of Shipment to the Lab: Hand carried

This form accompanies 2 Septum Vials, ____ Glass Jugs, and/or ____ _____

Samples were preserved as follows:

- [ ] 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 Sodium Thiosulfate to remove chlorine residual.

CHAIN OF CUSTODY

I certify that this sample was transferred from J. Bailey to A. Burney

at (location) SLD on 6/20/86 - 09:30 and that the statements in this block are correct. Evidentiary Seals: Not Sealed [ ] Seals Intact: Yes [X] No [ ]

Signatures J. Bailey A. Burney

For OCD Use: Date Owner Notified _____ Phone or Letter?_____ Initials ____

ANALYSES PERFORMED

LAB. No.: OR- 752

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- [x] (753) Aliphatic Purgeables (1-3 Carbons)
- [x] (754) Aromatic & Halogenated Purgeables
- [ ] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes

Other Specific Compounds or Classes

- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (760) Organochlorine Pesticides
- [ ] (755) Base/Neutral Extractables
- [ ] (758) Herbicides, Chlorophenoxy acid
- [ ] (759) Herbicides, Triazines
- [ ] (760) Organochlorine Pesticides
- [ ] (761) Organophosphate Pesticides
- [ ] (767) Polychlorinated Biphenyls (PCB's)
- [ ] (764) Polynuclear Aromatic Hydrocarbons
- [ ] (762) SDWA Pesticides & Herbicides

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
NATURAL GAS	N.D.		
aromatic purgeables+	ND		
halogenated purgeables+	ND		
* DETECTION LIMIT * *	5 ppm	+ DETECTION LIMIT + +	1 ppb

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT
T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)
[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS: This sample had a small bubble of headspace.

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes [x] No [x]. Seal(s) broken by: J.R. Tinney C. Beesley date: 24 June 86 6/27/86

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

Date(s) of analysis: 7 Jul 86. Analyst's signature: J.R. Tinney

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block.

Reviewers signature: Mary C. Elder

GROUNDWATER TECHNOLOGY LABORATORY

ANALYTICAL & CONSULTING SERVICES
Division of Oil Recovery Systems, Inc.
4 Mill St., Greenville, NH 03048
Tel: (603) 878-2500

HYDROCARBONS IN WATER ug/l
REPORT NO. 20-2050-9

SAMPLE NO.	I.D.	C4-C12 ALIPHATIC HYDROCARBONS	MISC AROMATICS C8-C10	TOTAL
27053	NW	23	22	47
27054	MCW	2	ND	7

NOTES:

TOTAL = THE SUM OF THE TOTAL BTEX AND THE ABOVE PARAMETERS.

ND = BELOW DETECTION LIMIT
NW = NEW WELL
MCW = MAIN COMMUNITY WELL

GROUNDWATER TECHNOLOGY LABORATORY
ANALYTICAL & CONSULTING SERVICES
Division of Oil Recovery Systems, Inc.
4 Mill St., Greenville, NH 03048
Tel: (603) 878-2500

HYDROCARBONS IN WATER ug/L (ppb)
REPORT NO. 20-2050-9

Sample I.D.	DATE SAMPLED	DATE RUN	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES	TOTAL BTEX
27053 NW	6/17/36	6/21/86	2	ND	ND	ND	2
27054 MCW	6/16/86	6/20/86	5	ND	ND	ND	5

*NOTES:

ND = BELOW DETECTION LIMIT

TOTAL BTEX = THE SUM OF BENZENE, TOLUENE, ETHYL BENZENE, AND XYLENES, ROUNDED TO THREE SIGNIFICANT FIGURES.

OCD BACKUP WELL #6

8/1/86

7:30 A.M. To run pump test

Top of H_2O 17½ feet to 58 feet TD

Set pump at 47 feet - 3 inch pump

Cleaned all threads with W/D 40

Used thread doap on all joints

Meter reading begin: 2331.3

Meter reading ending: 2616.8

9:26 A.M. Start Pump - Clean sand free well

Sample #1 Chloride 156.2 ppm (Taste Good) Pump rate 67 GPM

Conductivity 1080 mho
Temperature 22° C

12:30 P.M. Sample #2 (Taste Good) Pump rate 65 GPM

Chloride 156.2 ppm
Conductivity 1050 mho
Temperature 22° C

6:00 P.M. Sample #3 (Taste Good) Pump rate 65 GPM

Chloride 184.6 ppm
Conductivity 1050 mho
Temperature 21° C

8/2/86

6:00 A.M. Sample #4 (Taste Good) Pump rate 65 GPM

Chloride 213 ppm
Conductivity 1020 mho
Temperature 19° C

6:00 P.M. Sample #5 (Taste Good) Pump rate 64 GPM

Chloride 198.6 ppm
Conductivity 1080 mho
Temperature 21° C

8/3/86

6:00 A.M. Sample #6 (Taste Good) Pump rate 65 GPM

Chloride 213 ppm
Conductivity 1010 mho
Temperature 19° C

6:00 P.M. Sample #7 (Taste Good) Pump rate 65 GPM

Chloride 213 ppm
Conductivity 1010 mho
Temperature 21° C

8/4/86

6:00 A.M. Sample #8 (Taste Good) Pump rate 65 GPM

Chloride 213 ppm
Conductivity 1010 mho
Temperature 19° C

9:30 A.M. Sample #9 (Taste Good) Pump rate 65 GPM

Chloride 213 ppm
Conductivity 1030 mho
Temperature 22° C

FINAL

Meter = 2616.8

EID DID NOT GET FINAL SAMPLE

MONUMENT WATER WELL

21° C
910 Conductivity
Chloride 170.4

EID - Don Nugent
Mr. Copeland

Abbott Water Well Service

ALL SAMPLES COLLECTED AND TESTED BY: Eddie W. Seay: OCD, Hobbs, New Mexico

	Initials	Date
Prepared by		
Approved by		

MONUMENT N.M.

OLD - EAST (#1) SCHOOL HOUSE WELL - WATER SAMPLES BY EID

	1	2 ✓	3 ✓	4 ✓	5	6
CHEMICAL PARAMETERS	DATE	7/10/86	7/22/86	7/27/86		
	TIME	12:20PM	10:25AM	1725		
	LAB #	OR 818	843-A-B	86-0853-C		
ORGANICS						
1) PURGABLES						
A) AROMATICS						
BENZENE		TRACE <0.001 ppm	0.003 PPM	0.023 PPM		
TOLUENE		—	—			
XYLENES		—	—			
HEXENE/CYCLOHEXANE		—	TRACE <0.001 PPM	—		
DIMETHYLDISULFIDE		—	TRACE <0.001 PPM	—		
B) HALOGENATED		N/D	N/D	N/D		
DETECTION LIMIT				0.001 PPM		

NOTE: SAMPLE 843(A+B) HAD BUBBLES IN HEAD SPACE SAMPLED 7/22/86 10:25AM
RECIEVED 7/23/86
ANALIZED 7/24/86

MONUMENT N.M.

EAST (#1) SCHOOL HOUSE WELL — WATER SAMPLES BY FID

	CHEMICAL PARAMETERS	DATE	1-2-85	2-28-85	3-22-85	5/22/86	
		TIME	2:00 PM				
		LAB #	ORTEC	#85-0179-C	#85-0276-C	#86-0619-C	
1							
2	ORGANICS						
3	1) PURGABLES						
4	A) AROMATICS		N/D	N/D	N/D	N/D	
5	B) HALOGENATED		N/D	N/D	N/D	N/D	
6	DECTION LIMIT		0.001 PPM				
7							
8	GENERAL CHEMISTRY						
9							
10	SODIUM					43.7 PPM	
11	POTASSIUM					< 0.50 PPM	
12	TOTAL HARDNESS					370 PPM	
13	CALCIUM					124 PPM	
14	MAGNESIUM					14.2 PPM	
15	CHLORIDE					156.4 PPM	Cl
16	FLUORIDE					0.81 PPM	
17	ALKALINITY					149 PPM	
18	BICARBONATE					182 PPM	
19	CARBONATE					0 PPM	
20	SULFATE					54.9 PPM	
21	TOTAL FILTERABLE RES. (TDS)					705 PPM	TDS
22	CONDUCTANCE					—	
23	PH					—	
24	NITRATE					—	
25							
26	I-CAP					LAB # HM 10411	
27	ALUMINUM					< 0.1 PPM	
28	BARIUM					0.1 PPM	
29	BERYLIUM					< 0.1 PPM	
30	BORON					0.2 PPM	
31	CADMIUM					< 0.1 PPM	
32	CALCIUM					130 PPM	
33	CHROMIUM					< 0.1 PPM	
34	COBALT					< 0.1 PPM	
35	COPPER					< 0.1 PPM	
36	IRON					< 0.1 PPM	
37	LEAD					< 0.1 PPM	
38	MAGNESIUM					18 PPM	
39	MAGANESE					< 0.05 PPM	
40	MOLYBDENUM					< 0.1 PPM	
41	NICKEL					< 0.1 PPM	
42	SILICON					20 PPM	
43	SILVER					< 0.1 PPM	
44	STRONTIUM					1.1 PPM	Sr
45	TiV					< 0.1 PPM	
46	VANADIUM					< 0.1 PPM	
47	ZINC					< 0.1 PPM	
48							
49							
50							

86-0843-C WPU

SCIENTIFIC LABORATORY DIVISION

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

HEALTH ENVIRONMENT — STATE OF NEW MEXICO

REPORT TO: Oscar Simpson
EID, Water Supply
P.O. Box 968
Santa Fe, N.M. 87504-0968

S.L.D. No. OR- 843-A-B
DATE REC. 7/23/86
PRIORITY 1,5

PHONE(S): 827-2777
USER CODE: 5 2 0 1 4
SUBMITTER: R. Ruffner
CODE:
SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 8 6 0 7 2 2 1 0 2 5

SAMPLE TYPE: WATER ☑, SOIL ☐, FOOD ☐, OTHER:
COUNTY: Lea ; CITY: Monument
LOCATION CODE: (Township-Range-Section-Tracts) 1 9 S 3 7 E 2 9 (10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- ☐ (753) Aliphatic Purgeables (1-3 Carbons)
- ☑ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (760) Organochlorine Pesticides
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

Remarks: _____

FIELD DATA:

pH=_____; Conductivity=_____umho/cm at _____°C; Chlorine Residual=_____mg/l

Dissolved Oxygen=_____mg/l; Alkalinity=_____mg/l; Flow Rate_____ ____/____

Depth to water _____ft.; Depth of well_____ft.; Perforation Interval ____-____ft.; Casing:_____

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

Monument East Well. Water was milky due to compressed air. Impossible to get all the bubbles out.

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector):_____ Method of Shipment to the Lab:_____

This form accompanies 2 Septum Vials, _____ Glass Jugs, and/or _____ _____

Samples were preserved as follows:

- ☐ 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 Sodium Thiosulfate to remove chlorine residual.

CHAIN OF CUSTODY

I certify that this sample was transferred from _____ to _____

at (location) _____ on ____/____/____ - ____:____ and that

the statements in this block are correct. Evidentiary Seals: Not Sealed ☐ Seals Intact: Yes ☐ No ☐

Signatures _____ _____

ANALYSES PERFORMED

LAB. No.: OR- 843

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- ☐ (753) Aliphatic Purgeables (1-3 Carbons)
- ☒ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (760) Organochlorine Pesticides
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
benzene	3	halogenated purgeables	ND
[Hexane or Cyclohexane]	Tr<1		
[Dimethyl disulfide]	Tr<1		
* DETECTION LIMIT *	1ppb	+ DETECTION LIMIT +	

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT
T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)
[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS: This sample had a small bubble of headspace.

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes ☐ No ☒. 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 on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 21 July 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]

STATE OF NEW MEXICO
ENVIRONMENT

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

Please send copy To: EID 2120 N. Alto Hobbs, N.M. 88240

Priority 1.5

REPORT TO: Oscar Simpson
PLEASE PRINT
E.I.D. Water Supply
P.O. Box 968
Santa Fe, N.M. 87504-0968

S.L.D. No.: OR- 818
DATE REC. :

PHONE(S): 827-2777

USER CODE: 52914

SUBMITTER: Lutjens

SUBMITTER CODE:

SAMPLE TYPE: WATER ☑, SOIL ☐, OTHER

SAMPLE TYPE CODE:

COLLECTED: 7/10/86 (DATE) - 12:20 (TIME) BY DEL (INITIALS)

CODE: Y Y M M D D H H M M I I I

SOURCE: East well

CODE: AQUIFER + DEPTH

NEAREST CITY: Monument

CODE:

LOCATION: T 19S R 37E S 29

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.)

No odor noted

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

Method of shipment to the Laboratory UPS

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

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

Signatures _____ _____

(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- 818

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
		Hold for instructions			ORGANOPHOSPHATE PESTICIDES
		from Oscar Simpson			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	trace < 1 ppb		
		* DETECTION LIMIT	1 ug/l

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: 11 July 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]

STATE OF NEW MEXICO ENVIRONMENT DEPARTMENT

86-0619-C

754

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

(1)

REPORT TO: EID-WATER SUPPLY
P.O. BOX 968
SANTA FE N.M. 87504
ATT: OSCAR SIMPSON

S.L.D. No.: OR-619-A,B
DATE REC.: 5/26/86
PHONE 8272777
USER CODE: |5|2|0|1|0|

CONTAINERS WHICH ACCOMPANY THIS FORM ARE COLLECTIVELY REFERED TO AS SAMPLE.

SUBMITTER: OSCAR SIMPSON CODE: | | | | |

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

COLLECTED: 5/22/86 - 11:10AM BY OAS (DATE AND TIME) CODE: Y Y M M D D H H M M I I I

SOURCE: WATER WELL CODE: | | | + | | | + | | | | | (AQUIFER, DEPTH)

NEAREST CITY: MONUMENT N.M. CODE: | | | | | |

LOCATION: MONUMENT SCHOOL WELL #1 EAST 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.)
FROM WELL HEAD TAP

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

Method of shipment to the Laboratory State Vehicle OF 8345

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 MONUMENT to ALB. at (location) SLD LAB on 5/26/86 - ___:___ (DATE AND TIME) and that the statements in this block are correct.

Evidentiary Seals: Not Sealed [X] Seals Intact: Yes [ ] No [ ]

Signatures O A Simpson _____

(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- 619

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	AROMATIC HYDROCARBON SCREEN			CHLORINATED HYDROCARBON PESTICIDES
	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 purgeables	none detected		
halogenated purgables	none detected		
		* DETECTION LIMIT	1 ug/m/l

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: 5 June 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]

85-0276-C

B-4

Please Send A Copy to Hobbs EID

OSCAR Simpson
Water Supply
SANTA Fe

LABORATORY Organic

LAB NUMBER

Priority Two

SLD Users Code No. 52040

ALL CONTAINERS WHICH THIS FORM ACCOMPANIES ARE COLLECTIVELY REFERRED TO AS "SAMPLE".

CERTIFICATE OF FIELD PERSONNEL

Sample Type: Water ☑ Soil ☐ Other _____

Water Supply and/or Code No. Monument - OLD School house well EAST #2

City & County MONUMENT, LEA

Collected (date & time) 3-22-85 10AM By (name) R. Ruffner

pH=_____; Conductivity=_____umho/cm at_____°C; Chlorine Residual=_____

Dissolved Oxygen=_____mg/l; Alkalinity=_____; Flow Rate=_____

Sampling Location, Methods & Remarks (i.e. odors etc.)
Still being used instead of Reactivated well.

RECEIVED
APR 04 1985
WATER SUPPLY
REGULATION SECTION

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

I certify that I witnessed these field analyses, observations and activities and concur with the statements in this block. Signed _____

Method of Shipment to Laboratory Purolator.
THIS FORM ACCOMPANIES 2 septum vials with teflon-lined discs identified as:
specimen OLD School; duplicate_____; triplicate_____; blank(s)_____,
and_____ amber glass jug(s) with teflon-lined cap(s) identified as_____,
and_____ other container(s) (describe)_____ identified as_____.
Containers are marked as follows to indicate preservation (circle):
NP: No preservation; sample stored at room temperature (~20°C).
P-ICE: Sample stored in an ice bath.
P-$Na_2O_3S_2$: Sample preserved with 3 mg $Na_2O_3S_2$/40 ml and stored at room temperature.

CERTIFICATE(S) OF SAMPLE RECEIPT

I (we) certify that this sample was transferred from _____ to _____ at (location)_____ on (date & time)_____ and that the statements in this block are correct.

Disposition of Sample_____. Seal(s) Intact: Yes ☐ No ☐ .

Signature(s)_____ _____

I (we) certify that this sample was transferred from _____ to _____ at (location)_____ on (date & time)_____ and that the statements in this block are correct.

Disposition of Sample_____. Seal(s) Intact: Yes ☐ No ☐ .

Signature(s)_____ _____

ANALYSES REQUESTED

LAB. No.: ORG- 276

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)
					POLYNUCLEAR AROMATIC HYDROCARBONS
					TRIAZINE HERBICIDES
		SPECIFIC COMPOUNDS			SPECIFIC COMPOUNDS

REMARKS:

ANALYTICAL RESULTS

COMPOUND	[PPB]	COMPOUND	[PPB]
GC/MS Purgeables	None Detected*		
		* DETECTION LIMIT	1 ug/l

REMARKS: No purgeables Detected.

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: 3/26/85. Analyst's signature: K Meyerhoff

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

B3

REPORT TO: Gus Cordova
EID - Water Supply
Santa Fe

LABORATORY Organic

LAB NUMBER 85-0179-C

Priority One

SLD Users Code No. 52040

ALL CONTAINERS WHICH THIS FORM ACCOMPANIES ARE COLLECTIVELY REFERRED TO AS "SAMPLE".

CERTIFICATE OF FIELD PERSONNEL

Sample Type: Water ☑ Soil ☐ Other _____

Water Supply and/or Code No. Monument WSS. 371-13

City & County Monument Lea

Collected (date & time) 2-28-85 9AM By (name) R. Ruffner

pH=_____; Conductivity=_____umho/cm at_____°C; Chlorine Residual=_____

Dissolved Oxygen=_____mg/l; Alkalinity=_____; Flow Rate=_____

Sampling Location, Methods & Remarks (i.e. odors etc.)
OLD Schoolhouse well is being used ~~instead~~ instead of #2 EAST the Reactivated well until the pump is replaced in the reactivated well.

I certify that the statements in this block accurately reflect the results of my field analyses, observations and activities. Signed Ralf Ruffner
I certify that I witnessed these field analyses, observations and activities and concur with the statements in this block. Signed _____

Method of Shipment to Laboratory Purolator.
THIS FORM ACCOMPANIES 2 septum vials with teflon-lined discs identified as:
specimen OLD Schoolhouse; duplicate_____; triplicate_____; blank(s)_____,
and_____ amber glass jug(s) with teflon-lined cap(s) identified as_____,
and_____ other container(s) (describe)_____ identified as_____.
Containers are marked as follows to indicate preservation (circle):
NP: No preservation; sample stored at room temperature (~20°C).
P-ICE: Sample stored in an ice bath.
P-$Na_2O_3S_2$: Sample preserved with 3 mg $Na_2O_3S_2$/40 ml and stored at room temperature.

CERTIFICATE(S) OF SAMPLE RECEIPT

I (we) certify that this sample was transferred from _____ to _____ at (location)_____ on (date & time)_____ and that the statements in this block are correct.
Disposition of Sample_____. Seal(s) Intact: Yes ☐ No ☐ .
Signature(s)_____

I (we) certify that this sample was transferred from _____ to _____ at (location)_____ on (date & time)_____ and that the statements in this block are correct.
Disposition of Sample_____. Seal(s) Intact: Yes ☐ No ☐ .
Signature(s)_____

RECEIVED
MAR 07 1985
WATER SUPPLY
REGULATION SECTION

ANALYSES REQUESTED

LAB. No.: ORG- 179

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)
					POLYNUCLEAR AROMATIC HYDROCARBONS
					TRIAZINE HERBICIDES
		SPECIFIC COMPOUNDS			SPECIFIC COMPOUNDS

REMARKS:

ANALYTICAL RESULTS

COMPOUND	[PPB]	COMPOUND	[PPB]
GC/MS Purgeables	N.D. *		
		* DETECTION LIMIT	1 µg/l

RECEIVED
MAR 6 - 1985
LIQUID WASTE/GROUND WATER SURVEILLANCE

REMARKS:

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes___ NO___. 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: 2/28/85. Analyst's signature: K Meyerhoff

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

Please send a copy to Hobbs EID 1/4/85

OR5C

ENVIRONMENT

Gus Cordova
Water Supply
Santa Fe

LABORATORY Organic OR5A,B.

LAB NUMBER

Priority One

SLD Users Code No. 59600

ALL CONTAINERS WHICH THIS FORM ACCOMPANIES ARE COLLECTIVELY REFERRED TO AS "SAMPLE".

CERTIFICATE OF FIELD PERSONNEL

Sample Type: Water ☑ Soil ☐ Other _____

Water Supply and/or Code No. Monument — Old Schoolhouse Well EAST

City & County Monument T21-13, Lea

Collected (date & time) 2PM 1-2-85 By (name) R. Ruffner

pH=_____; Conductivity=_____umho/cm at _____; Chlorine Residual=_____

Dissolved Oxygen=_____mg/l; Alkalinity=_____, Flow Rate=_____

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

RECEIVED
JAN 10 1985
WATER SUPPLY
REGULATION SECTION

I certify that the statements in this block accurately reflect the results of my field analyses, observations and activities. Signed Robert Ruffner

I certify that I witnessed these field analyses, observations and activities and concur with the statements in this block. Signed _____

Method of Shipment to Laboratory Purolator.

THIS FORM ACCOMPANIES 2 septum vials with teflon-lined discs identified as: specimen OLD; duplicate_____; triplicate_____; blank(s)_____, and_____ amber glass jug(s) with teflon-lined cap(s) identified as_____, and_____ other container(s) (describe)_____ identified as_____.

Containers are marked as follows to indicate preservation (circle):

NP: No preservation; sample stored at room temperature (~20°C).

P-ICE: Sample stored in an ice bath.

P-$Na_2O_3S_2$: Sample preserved with 3 mg $Na_2O_3S_2$/40 ml and stored at room temperature.

CERTIFICATE(S) OF SAMPLE RECEIPT

I (we) certify that this sample was transferred from _____ to _____ at (location)_____ on (date & time)_____ and that the statements in this block are correct.

Disposition of Sample_____. Seal(s) Intact: Yes ☐ No ☐ .

Signature(s)_____ _____

I (we) certify that this sample was transferred from _____ to _____ at (location)_____ on (date & time)_____ and that the statements in this block are correct.

Disposition of Sample_____. Seal(s) Intact: Yes ☐ No ☐ .

Signature(s)_____ _____

ANALYSES REQUESTED

LAB. No.: ORG-85-5

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)
					POLYNUCLEAR AROMATIC HYDROCARBONS
					TRIAZINE HERBICIDES
		SPECIFIC COMPOUNDS			SPECIFIC COMPOUNDS

REMARKS:

ANALYTICAL RESULTS

COMPOUND	[PPB]	COMPOUND	[PPB]
aromatic purgeables	N.D.*		
halogenated purgeables	N.D.*		
		* DETECTION LIMIT	1 ug/l

REMARKS: *N.D. = none detected*. No purgeables detected

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes ___ NO ✓. 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: 4 Jan 84. 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]

850

1-B

State of New Mexico
HEALTH and ENVIRONMENT DEPARTMENT
SCIENTIFIC
LABORATORY DIVISION

CHEMICAL and PHYSICAL ANALYSES for WATER SAMPLES

Date received	Lab No.	SLD user code No.
6/2/86	WC-2356	52010

FOR PROPER PRESERVATION OF SAMPLES. CONSULT DEFINITIONS ON REVERSE. TYPE OR PRINT WITH BALL POINT PEN.

CHEMICAL ANALYSES: *Check individual items for analysis [Mark appropriate box(es)]*

INTERIM PRIMARY PARAMETER GROUP: ☐ 1 ☐ 2 ☐ 3

TYPE of CHEMICAL ANALYSIS: ☐ Complete Secondary ☐ Organic ☐ Radiological

Water Supply System Name	Water Supply System Code No.	City or Location	County	Check one:
MONUMENT		MONUMENT N.M	LEA CO	☐ TREATED WATER ☒ RAW WATER

Collection Date	Collection Time	Collection Point	Collector's remarks	Report to
5-22-86	11:10 AM	TAP AT WELL	N.F-N.A	OSCAR SIMPSON

Collected By	Owner	Address
	SAME	E.N.M WATER SUPPLY P.O. BOX 968 SANTA FE N.M 87504

TYPE of SYSTEM *(Check one)*: ☐ PRIVATE PUBLIC: ☒ Community ☐ Non-community

SOURCE: ☐ Spring ☐ Lake ☒ Well-Depth ☐ Drain ☐ Stream ☐ Pool ☐ Other *(specify)*

LAT. ° ' "

LONG ° ' "

CATIONS	mg/l	ANIONS	mg/l	PHYSICAL		HEAVY METALS	mg/l	PARAMETER		ORGANIC	mg/l
☒ 00930 Sodium (as Na)	43.7	☒ 00940 Chloride (as Cl)	156.4	☒ 70300 Total Filterable Residue	mg/l 705	01000 Arsenic				39390 Endrin	
☒ 00935 Potassium (as K)	4.050	☒ 00950 Fluoride (as F)	0.81	38260 Foaming Agents (as Las)		01005 Barium				39732 Lindane	
☒ 00900 Tot. Hardness (as $CaCO_3$)	370	☐ 00620 Nitrate (as N)		00095 Conductance Micromhos 25°C		01025 Cadmium				39760 Methoxychlor	
☒ 00915 Calcium (as Ca)	124	☒ 00430 Alkalinity (as $CaCO_3$)	149	00400 pH		01030 Chromium		RADIOLOGICAL pCi/l 01501 Gross Alpha		39400 Toxaphene	
☒ 00925 Magnesium (as Mg)	142	☒ 00440 Bicarbonate (as HCO_3)	182	01330 Odor		01049 Lead		03501 Gross Beta	pCi/l	39730 2, 4-D	
01045 Iron-Total (as Fe)		☒ 00445 Carbonate (as CO_3)	0	00080 Color	mg/l	07180 Mercury		09501 Radium-226	pCi/l	39740 2, 4, 5-TP (Silvex)	
01056 Manganese (as Mn)		☒ 00945 Sulfate (as SO_4)	54.9	00070 Turbidity		01145 Selenium		11501 Radium-228	pCi/l		
		+				01075 Silver					

RECEIVED
JUL 10 1986
WATER SUPPLY
REGULATION SECTION

LABORATORY REMARKS: ION-BALANCE

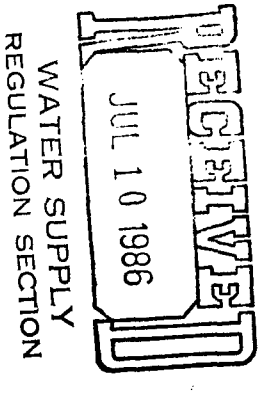
Reviewed by 6/24/86 87

Date reported

CATIONS				ANIONS			
ANALYTE	CALC.MEQ.	PPM	TYP.RANGE	ANALYTE	CALC.MEQ.	PPM	TYP.RANGE
Ca	6.19	124	60-150	HCO3	2.98	182	100-175
Mg	1.17	14.2	0-10	SO4	1.14	54.9	50-250
Na	1.90	43.7	20-250	Cl	4.47	156.4	0-45
K	0.00	0	0-6				
Mn	0.00	0	0-1	NO3	0.00	0	1-15
Fe	0.00	0	0-5	CO3	0.00	0	0-200pH
	0.00						
TOTAL	9.26			TOTAL	8.60		

BALANCE (%) 107.6734

DATE 6/24/86
BY
ACC# 2356



State of New Mexico
HEALTH and ENVIRONMENT DEPARTMENT
SCIENTIFIC
LABORATORY DIVISION

CHEMICAL and PHYSICAL ANALYSES for WATER SAMPLES

Date received	Lab No.	SLD user code No.
6/2/86	HM-1041	52010

FOR PROPER PRESERVATION OF SAMPLES, CONSULT DEFINITIONS ON REVERSE. TYPE OR PRINT WITH BALL POINT PEN.

CHEMICAL ANALYSES: *Check individual items for analysis [Mark appropriate box(es)]*

INTERIM PRIMARY PARAMETER GROUP: ☐ 1 ☐ 2 ☐ 3

TYPE of CHEMICAL ANALYSIS: ☐ Complete Secondary ☐ Organic ☐ Radiological

Water Supply System Name	Water Supply System Code No.	City or Location	County	Check one:
MONUMENT N.M.		MONUMENT N.M.	LEA	☐ TREATED WATER ☒ RAW WATER

Collection Date	Collection Time	Collection Point	Collector's remarks	Report to
5-22-86	11:10 AM	SCHOOL WELL #1	NEA 5 ML-HNO3	OSCAR SIMPSON

Collected By	Owner	Address
OSCAR SIMPSON	SAME	EID-WATER SUPPLY P.O BOX 968 SANTA FE N. M 87504

TYPE of SYSTEM *(Check one)*: ☐ PRIVATE PUBLIC: ☒ Community ☐ Non-community

SOURCE: ☐ Spring ☐ Lake ☐ Well-Depth ☐ Drain ☐ Stream ☐ Pool ☐ Other *(specify)*

LAT. ° ' "

LONG ° ' "

CATIONS	mg/l	ANIONS	mg/l	PHYSICAL		HEAVY METALS	mg/l	PARAMETER		ORGANIC	mg/l
00930 Sodium (as Na)		00940 Chloride (as Cl)		70300 Total Filterable Residue	mg/l	01000 Arsenic				39390 Endrin	
00935 Potassium (as K)		00950 Fluoride (as F)		38260 Foaming Agents (as Las)		01005 Barium				39732 Lindane	
00900 Tot.Hardness (as $CaCO_3$)		00620 Nitrate (as N)		00095 Conductance Micromhos 25°C		01025 Cadmium				38270 Methoxychlor	
00915 Calcium (as Ca)		00430 Alkalinity (as $CaCO_3$)		00400 pH		01030 Chromium		RADIOLOGICAL pCi/l 01501 Gross Alpha		39400 Toxaphene	
00925 Magnesium (as Mg)		00440 Bicarbonate (as HCO_3)		01330 Odor		01049 Lead		03501 Gross Beta	pCi/l	39730 2, 4-D	
01045 Iron-Total (as Fe)		00445 Carbonate (as CO_3)		00080 Color	mg/l	07180 Mercury		09501 Radium-226	pCi/l	39740 2, 4, 5-TP (Silvex)	
01056 Manganese (as Mn)		00945 Sulfate (as SO_4)		00070 Turbidity		01145 Selenium		11501 Radium-228	pCi/l		
		☒ I-CAP SCAN				01075 Silver					

LABORATORY REMARKS:

See attached Sheet for ICAP SCAN.

Reviewed by: Jim Ashley

Date Reported: 6/10/86

SLD 702 Form Rev. 9/84

DISTRIBUTION: **White** - Water Supply Regulation, SF • **Canary** - WS System • **Pink** - EIA Regional Office • **Goldenrod** - SLD Lab

Lab Number: HM 1041 Sample Code: Monument School Well #

Date Submitted: 6/2/86 Date Analyzed: 6/4/86

By: Oscar Simpson Reviewed By: Jim Ashley

Date Reported: 6/10/86

Element	ICAP VALUE(MG/L)	AA VALUE(MG/L)
Aluminum	<0.1	
Barium	0.1	
Berylium	<0.1	
Boron	0.2	
Cadmium	<0.1	
Calcium	130.	
Chromium	<0.1	
Cobalt	<0.1	
Copper	<0.1	
Iron	<0.1	
Lead	<0.1	
Magnesium	18.	
Manganese	<0.05	
Molybdenum	<0.1	
Nickel	<0.1	
Silicon	20.	
Silver	<0.1	
Strontium	1.1	
Tin	<0.1	
Vanadium	<0.1	
Zinc	<0.1	
Arsenic		
Selenium		
Mercury		

86-0853-C

SCIENTIFIC LABORATORY DIVISION

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

HEALTH ENVIRONMENT — STATE OF NEW MEXICO

REPORT TO: Oscar Simpson
EID, Water Supply
P.O. Box 968
Santa Fe, N.M.

S.L.D. No. OR- Org-853
DATE REC. 7-28-86
PRIORITY 1,5

PHONE(S): 827-2777
USER CODE: 52014
SUBMITTER: Don Lutjens
CODE:
SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 860727171725
SAMPLE TYPE: WATER ☑, SOIL ☐, FOOD ☐, OTHER:
COUNTY: Lea ; CITY: Monument
LOCATION CODE: (Township-Range-Section-Tracts) 19S37E29 (10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- ☐ (753) Aliphatic Purgeables (1-3 Carbons)
- ☑ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (760) Organochlorine Pesticides
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

Remarks: _____

FIELD DATA:

pH= 7.05 ; Conductivity= _____ umho/cm at 21 °C; Chlorine Residual= _____ mg/l

Dissolved Oxygen= _____ mg/l; Alkalinity= _____ mg/l; Flow Rate _____ ____/____

Depth to water _____ ft.; Depth of well _____ ft.; Perforation Interval _____ - _____ ft.; Casing: _____

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

Monument water co-op, East well water milky due to air. Impossible to get all of the bubbles out.

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): Don Lutjens Method of Shipment to the Lab: _____

This form accompanies 2 Septum Vials, _____ Glass Jugs, and/or _____ _____

Samples were preserved as follows:

- ☐ 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 Sodium Thiosulfate to remove chlorine residual.

CHAIN OF CUSTODY

I certify that this sample was transferred from _____ to _____

at (location) _____ on ____/____/____ - ____:____ and that

the statements in this block are correct. Evidentiary Seals: Not Sealed ☐ Seals Intact: Yes ☐ No ☐

Signatures _____ _____

ANALYSES PERFORMED

LAB. No.: OR- 853

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- ☐ (753) Aliphatic Purgeables (1-3 Carbons)
- ☒ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (760) Organochlorine Pesticides
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
halogenated purgeables	ND		
aromatic purgeables:			
benzene	23 ppb		
* DETECTION LIMIT *	1 ppb	+ DETECTION LIMIT +	

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT
T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)
[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS: Good sample, no headspace.

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes ☐ No ☒. 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 on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 28 July 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]

86- 0762-C

SCIENTIFIC LABORATORY DIVISION

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

HEALTH ENVIRONMENT — STATE OF NEW MEXICO

REPORT TO: David Boyer
N.M. Oil Conservation Division
P. O. Box 2088
Santa Fe, N.M. 87504-2088
PHONE(S): 827-5812

S.L.D. No. OR- 762 - H. B
DATE REC. 6/20/86
PRIORITY 2
USER CODE: 8 2 2 3 5

SUBMITTER: David Boyer
CODE: 2 6 0

SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 8 6 0 6 1 6 1 2 5 1 0

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

COUNTY: LEA ; CITY: MONUMENT CODE: _____

LOCATION CODE: (Township-Range-Section-Tracts) 1 1 9 S + 3 7 E + 2 9 + 4 3 3 (10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- [ ] (753) Aliphatic Purgeables (1-3 Carbons)
- [X] (754) Aromatic & Halogenated Purgeables
- [ ] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes

Other Specific Compounds or Classes

- [X] HEADSPACE
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (760) Organochlorine Pesticides
- [ ] (755) Base/Neutral Extractables
- [ ] (758) Herbicides, Chlorophenoxy acid
- [ ] (759) Herbicides, Triazines
- [ ] (760) Organochlorine Pesticides
- [ ] (761) Organophosphate Pesticides
- [ ] (767) Polychlorinated Biphenyls (PCB's)
- [ ] (764) Polynuclear Aromatic Hydrocarbons
- [ ] (762) SDWA Pesticides & Herbicides

Remarks: MAIN COMMUNITY WELL (FIRST)

FIELD DATA:

pH=_____; Conductivity= 970 umho/cm at 24 °C; Chlorine Residual=_____mg/l

Dissolved Oxygen=_____mg/l; Alkalinity=_____mg/l; Flow Rate_____ ____/____

Depth to water _____ft.; Depth of well_____ft.; Perforation Interval _____-_____ft.; Casing:_____

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

Sampled at pump

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): J. Bailey Method of Shipment to the Lab: Hand carried

This form accompanies 2 Septum Vials, ____ Glass Jugs, and/or ____ _____

Samples were preserved as follows:

- [ ] 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 Sodium Thiosulfate to remove chlorine residual.

CHAIN OF CUSTODY

I certify that this sample was transferred from _____ to _____

at (location) _____ on ____/____/____ - ____:____ and that

the statements in this block are correct. Evidentiary Seals: Not Sealed [ ] Seals Intact: Yes [ ] No [ ]

Signatures _____ _____

For OCD Use: Date Owner Notified _____ Phone or Letter?_____ Initials _____

ANALYSES PERFORMED

LAB. No.: OR- 762

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- [x] (753) Aliphatic Purgeables (1-3 Carbons)
- [x] (754) Aromatic & Halogenated Purgeables
- [x] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes

Other Specific Compounds or Classes

- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (760) Organochlorine Pesticides
- [ ] (755) Base/Neutral Extractables
- [ ] (758) Herbicides, Chlorophenoxy acid
- [ ] (759) Herbicides, Triazines
- [ ] (760) Organochlorine Pesticides
- [ ] (761) Organophosphate Pesticides
- [ ] (767) Polychlorinated Biphenyls (PCB's)
- [ ] (764) Polynuclear Aromatic Hydrocarbons
- [ ] (762) SDWA Pesticides & Herbicides

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
Natural gas	N.D		
p-dichlorobenzene+	3ppb		
* DETECTION LIMIT * *	5ppm	+ DETECTION LIMIT + +	1ppb

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT
T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)
[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS: This sample had a small bubble of headspace. The amount of p-dichlorobenzene detected by GC/MS was much higher than 3ppb, the results reported here from purge and trap GC.

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 on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 8 July 86 6/27/86. Analyst's signature: C S Dauney, J H Tinney

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block.

Reviewers signature: Mary C. Ellen

GROUNDWATER TECHNOLOGY LABORATORY
ANALYTICAL & CONSULTING SERVICES
Division of Oil Recovery Systems, Inc.
4 Mill St., Greenville, NH 03048
Tel: (603) 878-2500

HYDROCARBONS IN WATER ug/l
REPORT NO. 20-2050-9

SAMPLE NO.	I.D.	C4-C12 ALIPHATIC HYDROCARBONS	MISC AROMATICS C8-C10	TOTAL
27053	NW	23	22	47
27054	MCW	2	ND	7

NOTES:

TOTAL = THE SUM OF THE TOTAL BTEX AND THE ABOVE PARAMETERS.

ND = BELOW DETECTION LIMIT
NW = NEW WELL
MCW = MAIN COMMUNITY WELL

GROUNDWATER TECHNOLOGY LABORATORY
ANALYTICAL & CONSULTING SERVICES
Division of Oil Recovery Systems, Inc.
4 Mill St., Greenville, NH 03048
Tel: (603) 878-2500

HYDROCARBONS IN WATER ug/L (ppb)
REPORT NO. 20-2050-9

Sample I.D.	DATE SAMPLED	DATE RUN	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES	TOTAL BTEX
27053 NW	6/17/86	6/21/86	2	ND	ND	ND	2
27054 MCW	6/16/86	6/20/86	5	ND	ND	ND	5

NOTES:

ND = BELOW DETECTION LIMIT

TOTAL BTEX = THE SUM OF BENZENE, TOLUENE, ETHYL BENZENE, AND XYLENES, ROUNDED TO THREE SIGNIFICANT FIGURES.

84-1083-C

OIL CONSERVATION DIVISION

DAVID G. BOYER
Hydrogeologist

P.O. BOX 2088
LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
505-827-5812

12/6/82

LABORATORY SLD Private 2

LAB NUMBER OR 1083 A, B.

SLD Users Code No. 59600

ALL CONTAINERS WHICH THIS FORM ACCOMPANIES ARE COLLECTIVELY REFERRED TO AS "SAMPLE".

CERTIFICATE OF FIELD PERSONNEL

Sample Type: Water ☒ Soil ☐ Other _____

Water Supply and/or Code No. Monument Community Supply

City & County Monument East School Well, Lea County

Collected (date & time) 841128-0905 By (name) BOYER

pH= _____; Conductivity= _____ umho/cm at _____ °C; Chlorine Residual= _____

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

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

East School well (from pump spigot, No odor)

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

I certify that I witnessed these field analyses, observations and activities and concur with the statements in this block. Signed _____

Method of Shipment to Laboratory _____.

THIS FORM ACCOMPANIES 2 septum vials with teflon-lined discs identified as:

specimen X; duplicate X; triplicate _____; blank(s) _____,

and _____ amber glass jug(s) with teflon-lined cap(s) identified as _____,

and _____ other container(s) (describe) _____ identified as _____.

Containers are marked as follows to indicate preservation (circle):

NP: No preservation; sample stored at room temperature (~20°C).

P-ICE: Sample stored in an ice bath.

P-$Na_2O_3S_2$: Sample preserved with 3 mg $Na_2O_3S_2$/40 ml and stored at room temperature.

CERTIFICATE(S) OF SAMPLE RECEIPT

I (we) certify that this sample was transferred from _____ to _____ at (location) _____ on (date & time) _____ and that the statements in this block are correct.

Disposition of Sample _____. Seal(s) Intact: Yes ☐ No ☐ .

Signature(s) _____ _____

I (we) certify that this sample was transferred from _____ to _____ at (location) _____ on (date & time) _____ and that the statements in this block are correct.

Disposition of Sample _____. Seal(s) Intact: Yes ☐ No ☐ .

Signature(s) _____ _____

ANALYSES REQUESTED LAB. NO.

PLEASE CHECK THE APPROPRIATE BOXES BELOW TO INDICATE THE TYPE OF ANALYTICAL SCREENS REQUIRED. WHENEVER POSSIBLE LIST SPECIFIC COMPOUNDS SUSPECTED OR REQUIRED. org-1083

QUALITATIVE	QUANTATIVE	PURGEABLE SCREEN	QUALITATIVE	QUANTATIVE	EXTRACTABLES SCREEN
		ALIPHATIC HYDROCARBON SCREEN			ALIPHATIC HYDROCARBONS
X	X	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)
					POLYNUCLEAR AROMATIC HYDROCARBONS
		SPECIFIC COMPOUNDS			SPECIFIC COMPOUNDS
		Benzene, Toluene, Ethylbenzene Xylenes			

REMARKS:

ANALYTICAL RESULTS

COMPOUND	CONC-ENTRATION	COMPOUND	CONC-ENTRATION
halogenated purgeables	none detected		
aromatic purgeables	" "		
		* DETECTION LIMIT	1 ug/L

REMARKS: No purgeables detected.

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes No . 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 6 Dec 84 . Analysts signature J.A. Finney

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 Meyerhei

86-0850-C

WPM

SCIENTIFIC LABORATORY DIVISION

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

HEALTH ENVIRONMENT — STATE OF NEW MEXICO

007181

REPORT TO: Oscar Simpson
EID, Water Supply
P.O. Box 968
Santa Fe, N.M. 87504-0968

S.L.D. No. OR- org-850
DATE REC. 7-28-86
PRIORITY 1,5

PHONE(S): 827-2777
USER CODE: 5 2 6 1 4

SUBMITTER: Don Luttjens
CODE:

SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 8 6 0 7 2 7 1 6 4 0

SAMPLE TYPE: WATER ☑, SOIL ☐, FOOD ☐, OTHER:

COUNTY: Lea ; CITY: Monument

LOCATION CODE: (Township-Range-Section-Tracts) 1 9 S + 3 7 E + 2 9 + (10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- ☐ (753) Aliphatic Purgeables (1-3 Carbons)
- ☑ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (760) Organochlorine Pesticides
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

Remarks: _____

FIELD DATA:

pH= 7.35; Conductivity= _____ umho/cm at 23 °C; Chlorine Residual= _____ mg/l

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

Depth to water _____ ft.; Depth of well _____ ft.; Perforation Interval _____-_____ ft.; Casing: _____

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

water slightly milky from bubbles. Impossible to get all bubbles out.
Oil Patch Cafe ¼ Mile ENE of Holding Tank

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): Don Luttjens Method of Shipment to the Lab: Messenger

This form accompanies 2 Septum Vials, _____ Glass Jugs, and/or _____ _____

Samples were preserved as follows:

- ☐ 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 Sodium Thiosulfate to remove chlorine residual.

CHAIN OF CUSTODY

I certify that this sample was transferred from _____ to _____

at (location) _____ on ____/____/____ - ____:____ and that

the statements in this block are correct. Evidentiary Seals: Not Sealed ☐ Seals Intact: Yes ☐ No ☐

Signatures _____ _____

ANALYSES PERFORMED

LAB. No.: UR- 850

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- ☐ (753) Aliphatic Purgeables (1-3 Carbons)
- ☒ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (760) Organochlorine Pesticides
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
halogenated purgeables	ND		
aromatic purgeables: benzene	1 ppb		
* DETECTION LIMIT *	* 1 ppb	+ DETECTION LIMIT +	+

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT

T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)

[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS: Good sample, no headspace.

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes ☐ No ☒. 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 on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 29 July 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: L Meyerhen

6-0851-C

SCIENTIFIC LABORATORY DIVISION

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

HEALTH ENVIRONMENT — STATE OF NEW MEXICO

007182

REPORT TO: Oscar Simpson
EID, Water Supply
P.O. Box 968
Santa Fe, N.M. 87504-0968

S.L.D. No. OR- Org - 851
DATE REC. 7-28-86
PRIORITY 1,5

PHONE(S): 827-2777
USER CODE: 5 2 0 1 4

SUBMITTER: Don Luttens
CODE:

SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 8 6 0 7 2 7 1 7 1 0

SAMPLE TYPE: WATER ☑, SOIL ☐, FOOD ☐, OTHER:

COUNTY: Lea ; CITY: Monument

LOCATION CODE: (Township-Range-Section-Tracts) 1 9 S + 3 7 E + 2 9 + (10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- ☐ (753) Aliphatic Purgeables (1-3 Carbons)
- ☑ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (760) Organochlorine Pesticides
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

Remarks: _____

FIELD DATA:

pH=_____; Conductivity=_____umho/cm at _____°C; Chlorine Residual=_____mg/l

Dissolved Oxygen=_____mg/l; Alkalinity=_____mg/l; Flow Rate_____ ____/____

Depth to water _____ft.; Depth of well_____ft.; Perforation Interval _____-_____ft.; Casing:_____

Sampling Location, Methods and Remarks (i.e. odors, etc.)
Bobby Bates Kitchen Sink. About 70 yards SW of Holding Tanks

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): Don Luttens Method of Shipment to the Lab:_____

This form accompanies 2 Septum Vials, _____ Glass Jugs, and/or _____ _____

Samples were preserved as follows:

- ☐ 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 Sodium Thiosulfate to remove chlorine residual.

CHAIN OF CUSTODY

I certify that this sample was transferred from _____ to _____

at (location) _____ on ____/____/____ - ____:____ and that

the statements in this block are correct. Evidentiary Seals: Not Sealed ☐ Seals Intact: Yes ☐ No ☐

Signatures _____ _____

ANALYSES PERFORMED

LAB. No.: OR- 851

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- ☐ (753) Aliphatic Purgeables (1-3 Carbons)
- ☒ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (760) Organochlorine Pesticides
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
halogenated purgeables	ND		
aromatic purgeables:			
benzene	1 ppb		
* DETECTION LIMIT *	1 ppb	+ DETECTION LIMIT +	

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT

T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)

[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

BORATORY REMARKS: _____

CERTIFICATE OF ANALYTICAL PERSONNEL

l(s) Intact: Yes ☐ No ☒. Seal(s) broken by: _____ date: _____

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

e(s) of analysis: 28 July 86. Analyst's signature: G K Tinney

ertify that I have reviewed and concur with the analytical results for this sample and with the statements in this block.

iewers signature: K Meyerhen

0852-C

SCIENTIFIC LABORATORY DIVISION

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

STATE OF NEW MEXICO
ENVIRONMENT

007183

REPORT TO: Oscar Simpson
EID, water Supply
P.O. Box 968
Santa Fe, N.M. 87504-0968

S.L.D. No. ORG- Org - 852
DATE REC. 7-28-86
PRIORITY 1.5

PHONE(S): 827-2777
USER CODE: 52014

SUBMITTER: Don Lutjens
CODE:

SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 860727171740

SAMPLE TYPE: WATER ☑, SOIL ☐, FOOD ☐, OTHER:

COUNTY: Lea ; CITY: Monument

LOCATION CODE: (Township-Range-Section-Tracts) 19S+37E+29+ (10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- ☐ (753) Aliphatic Purgeables (1-3 Carbons)
- ☑ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (760) Organochlorine Pesticides
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

Remarks: _____

FIELD DATA:

pH= 6.91 ; Conductivity= _____ umho/cm at 19 °C; Chlorine Residual= _____ mg/l

Dissolved Oxygen= _____ mg/l; Alkalinity= _____ mg/l; Flow Rate _____ ____/____

Depth to water _____ ft.; Depth of well _____ ft.; Perforation Interval _____ - _____ ft.; Casing: _____

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

Monument water co-op west well

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): Don Lutjens Method of Shipment to the Lab: _____

This form accompanies 2 Septum Vials, ____ Glass Jugs, and/or ____ _____

Samples were preserved as follows:

- ☐ 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 Sodium Thiosulfate to remove chlorine residual.

CHAIN OF CUSTODY

I certify that this sample was transferred from _____ to _____

at (location) _____ on ____/____/____ - ____:____ and that

the statements in this block are correct. Evidentiary Seals: Not Sealed ☐ Seals Intact: Yes ☐ No ☐

Signatures _____ _____

ANALYSES PERFORMED

LAB. No.: OR- 852

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- ☐ (753) Aliphatic Purgeables (1-3 Carbons)
- ☒ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (760) Organochlorine Pesticides
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
halogenated purgeables	ND		
aromatic purgeables	ND		
* DETECTION LIMIT *	1 ppb	+ DETECTION LIMIT +	

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT

T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)

[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

ORATORY REMARKS: _____

CERTIFICATE OF ANALYTICAL PERSONNEL

s) Intact: Yes ☐ No ☒. Seal(s) broken by: _____ date: _____

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

(s) of analysis: _____. Analyst's signature: _____

rtify that I have reviewed and concur with the analytical results for this sample and with the statements in this block.

ewers signature: _____

86-0853-C

SCIENTIFIC LABORATORY DIVISION

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

STATE OF NEW MEXICO
ENVIRONMENT

007184

REPORT TO: Oscar Simpson
EID, Water Supply
P.O. Box 968
Santa Fe, N.M.

S.L.D. No. OR- Org-853
DATE REC. 7-28-86
PRIORITY 1.5

PHONE(S): 827-2777
USER CODE: 52014

SUBMITTER: Don Lutjens
CODE:

SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 860727171725

SAMPLE TYPE: WATER ☑, SOIL ☐, FOOD ☐, OTHER:

COUNTY: Lea ; CITY: Monument

LOCATION CODE: (Township-Range-Section-Tracts) 19S+37E+29+ (10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- ☐ (753) Aliphatic Purgeables (1-3 Carbons)
- ☑ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (760) Organochlorine Pesticides
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

Remarks: _____

FIELD DATA:

pH= 7.05; Conductivity= _____ umho/cm at 21 °C; Chlorine Residual= _____ mg/l

Dissolved Oxygen= _____ mg/l; Alkalinity= _____ mg/l; Flow Rate _____ ____/____

Depth to water _____ ft.; Depth of well _____ ft.; Perforation Interval _____-_____ ft.; Casing: _____

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

Monument water Co-op, East well water milky due to air. Impossible to get all of the bubbles out.

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): Don Lutjens Method of Shipment to the Lab: _____

This form accompanies 2 Septum Vials, _____ Glass Jugs, and/or _____ _____

Samples were preserved as follows:

- ☐ 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 Sodium Thiosulfate to remove chlorine residual.

CHAIN OF CUSTODY

I certify that this sample was transferred from _____ to _____

at (location) _____ on ____/____/____ - ____:____ and that

the statements in this block are correct. Evidentiary Seals: Not Sealed ☐ Seals Intact: Yes ☐ No ☐

Signatures _____ _____

ANALYSES PERFORMED

LAB. No.: OR- 853

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- ☐ (753) Aliphatic Purgeables (1-3 Carbons)
- ☒ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (760) Organochlorine Pesticides
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
halogenated purgeables	ND		
aromatic purgeables:			
benzene	23ppb		
* DETECTION LIMIT *	1ppb	+ DETECTION LIMIT +	

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT

T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)

[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

ORATORY REMARKS: Good sample, no headspace.

CERTIFICATE OF ANALYTICAL PERSONNEL

(s) Intact: Yes ☐ No ☒. Seal(s) broken by: _____ date: _____

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

(s) of analysis: 28 July 86. Analyst's signature: J. Turney

rtify that I have reviewed and concur with the analytical results for this sample and with the statements in this block.

ewers signature: L Meyerhein

Prepared by	Initials	Date
Approved by		

MONUMEN N.M.

REACTIVATED WEST (#2) SCHOOL HOUSE WELL - WATER SAMPLES BY EID

	CHEMICAL PARAMETERS	DATE	1-2-85		7/27/86	5/22/86	7/22/86	
		TIME	2:00PM		1740	11:30 AM	10:50 AM	
		LAB#	ORAC		86-0852	WC-2358	84H-A-B	
1								1
2	ORGANICS							2
3	1) PURGABLES							3
4	A) AROMATICS		N/D		N/D	N/D	N/D	4
5	B) HALOGENATED		N/D		N/D	N/D	N/D	5
6	DECTION LIMIT		0.001 PPM		0.001PPM		0.001PPM	6
7								7
8	GENERAL CHEMISTRY							8
9								9
10	SODIUM					59.8 PPM		10
11	POTASSIUM					3.57 PPM		11
12	TOTAL HARDNESS					400 PPM		12
13	CALCIUM					132 PPM		13
14	MAGNESIUM					17.1 PPM		14
15	CHLORIDE					120.5 PPM	CL	15
16	FLUORIDE					0.83 PPM		16
17	ALKALINITY					141 PPM		17
18	BICARBONATE					169 PPM		18
19	CARBONATE					1.4 PPM		19
20	SULFATE					57.5 PPM		20
21	TOTAL FILTERABLE RES. (TDS)					630. PPM	TDS	21
22	CONDUCTANCE					—		22
23	PH					—		23
24	NITRATE					—		24
25								25
26	I-CAP							26
27	ALUMINUM					< 0.1 PPM		27
28	BARIUM					0.1 PPM		28
29	BERYLIUM					< 0.1 PPM		29
30	BORON					0.2 PPM		30
31	CADMIUM					< 0.1 PPM		31
32	CHROMIUM					140 PPM		32
33	COBALT					< 0.1 PPM		33
34	COPPER					< 0.1 PPM		34
35	IRON					< 0.1 PPM		35
36	LEAD					0.1 PPM		36
37	MAGNESIUM					< 0.1 PPM		37
38	MAGANESE					1.7 PPM		38
39	MOLYBDENUM					< 0.05 PPM		39
40	NICKEL					< 0.1 PPM		40
41	SILICON					20 PPM		41
42	SILVER					< 0.1 PPM		42
43	STRONTIUM					1.0 PPM	SR	43
44	TIN					< 0.1 PPM		44
45	VANADIUM					< 0.1 PPM		45
46	ZINC					< 0.1 PPM		46
47								47
48								48
49								49
50								50

Please send copy to Hobbs EIP 1/4/85

OR 4C

Gus Cordova
Water Supply
Santa Fe

LABORATORY Organic
LAB NUMBER OR 4A, B

Priority One

SLD Users Code No. 52000

ALL CONTAINERS WHICH THIS FORM ACCOMPANIES ARE COLLECTIVELY REFERRED TO AS "SAMPLE".

CERTIFICATE OF FIELD PERSONNEL

Sample Type: Water ☑ Soil ☐ Other _____

Water Supply and/or Code No. Monument - Reactivated well (WEST)

City & County Monument 31-13 Lea

Collected (date & time) 1-2-85 2PM By (name) R. Ruffner

pH=_____; Conductivity=_____umho/cm at _____; Chlorine Residual=_____

Dissolved Oxygen=_____mg/l; Alkalinity=_____; Flow Rate=_____

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

RECEIVED
JAN 10 1985
WATER SUPPLY
REGULATION SECTION

I certify that the statements in this block accurately reflect the results of my field analyses, observations and activities. Signed Rod Ruffner

I certify that I witnessed these field analyses, observations and activities and concur with the statements in this block. Signed _____

Method of Shipment to Laboratory Purolator.

THIS FORM ACCOMPANIES 2 septum vials with teflon-lined discs identified as: specimen Reactivated duplicate_____; triplicate_____; blank(s)_____, and_____ amber glass jug(s) with teflon-lined cap(s) identified as_____, and_____ other container(s) (describe)_____ identified as_____.

Containers are marked as follows to indicate preservation (circle):

NP: No preservation; sample stored at room temperature (~20°C).

P-ICE: Sample stored in an ice bath.

P-$Na_2O_3S_2$: Sample preserved with 3 mg $Na_2O_3S_2$/40 ml and stored at room temperature.

CERTIFICATE(S) OF SAMPLE RECEIPT

I (we) certify that this sample was transferred from _____ to _____ at (location)_____ on (date & time)_____ and that the statements in this block are correct.

Disposition of Sample_____. Seal(s) Intact: Yes ☐ No ☐ .

Signature(s)_____ _____

I (we) certify that this sample was transferred from _____ to _____ at (location)_____ on (date & time)_____ and that the statements in this block are correct.

Disposition of Sample_____. Seal(s) Intact: Yes ☐ No ☐ .

Signature(s)_____ _____

ANALYSES REQUESTED

LAB. No.: ORG- 4

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
MeQ	✓	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)
					POLYNUCLEAR AROMATIC HYDROCARBONS
					TRIAZINE HERBICIDES
		SPECIFIC COMPOUNDS			SPECIFIC COMPOUNDS

REMARKS:

ANALYTICAL RESULTS

COMPOUND	[PPB]	COMPOUND	[PPB]
aromatic purgeables	none detected		
halogenated purgeables	none detected		
		* DETECTION LIMIT	1 ug/l

REMARKS: No purgeables detected.*

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: 4 Jan 84. 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]

STATE ENVIRONMENT Department

86-0621-C

754

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

REPORT TO: EID-WATER SUPPLY
ATT: OSCAR SIMPSON
P.O BOX 968
SANTA FE N.M 87504

S.L.D. No.: OR-621-AB
DATE REC.: 5/26/86
PHONE 505 827 2777
USER CODE: 5|2|0|1|0|

CONTAINERS WHICH ACCOMPANY THIS FORM ARE COLLECTIVELY REFERED TO AS SAMPLE.

SUBMITTER: SIMPSON CODE:

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

COLLECTED: 5/22/86 - 11:30AM (DATE AND TIME) BY OAS CODE: Y Y M M D D H H M M I I I

SOURCE: MONUMENT SCHOOL WELL #2 CODE: (AQUIFER) (DEPTH)

NEAREST CITY: MONUMENT N.M CODE:

LOCATION: SCHOOL WELL #2 (WEST) 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.)

AT WELL HEAD TAP

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

Method of shipment to the Laboratory STATE VECHICLE OF8345 TO ALB

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 MONUMENT N/M to ALB at (location) SLD LAB on 5/26/86 - ___ : ___ (DATE AND TIME) and that the statements in this block are correct.

Evidentiary Seals: Not Sealed [X] Seals Intact: Yes [ ] No [ ]

Signatures OA Simpson _____

(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- 621

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	AROMATIC HYDROCARBON SCREEN			CHLORINATED HYDROCARBON PESTICIDES
	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 purgeables	none detected		
halogenated purgeables	none detected		
		* DETECTION LIMIT	1 ug/l

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: 5 June 86. Analyst's signature: J. Tinney

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

86-0844-C WPD

SCIENTIFIC LABORATORY DIVISION

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

HEALTH ENVIRONMENT — STATE OF NEW MEXICO

REPORT TO: Oscar Simpson
EID Water Supply
P.O. Box 968
Santa Fe, N.M. 87504-0968
PHONE(S): 827-2777

S.L.D. No. OR-844-A-B
DATE REC. 7/23/86
PRIORITY 1.5
USER CODE: 52014
SUBMITTER: R. Ruffner
CODE:

SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 860721050

SAMPLE TYPE: WATER [x], SOIL [ ], FOOD [ ], OTHER:

COUNTY: Lea ; CITY: Monument

LOCATION CODE: (Township-Range-Section-Tracts) 19S+37E+29+ (10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- [ ] (753) Aliphatic Purgeables (1-3 Carbons)
- [x] (754) Aromatic & Halogenated Purgeables
- [ ] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes

Other Specific Compounds or Classes

- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (760) Organochlorine Pesticides
- [ ] (755) Base/Neutral Extractables
- [ ] (758) Herbicides, Chlorophenoxy acid
- [ ] (759) Herbicides, Triazines
- [ ] (760) Organochlorine Pesticides
- [ ] (761) Organophosphate Pesticides
- [ ] (767) Polychlorinated Biphenyls (PCB's)
- [ ] (764) Polynuclear Aromatic Hydrocarbons
- [ ] (762) SDWA Pesticides & Herbicides

Remarks: _____

FIELD DATA:

pH=_____; Conductivity=_____umho/cm at _____°C; Chlorine Residual=_____mg/l

Dissolved Oxygen=_____mg/l; Alkalinity=_____mg/l; Flow Rate_____ _____/_____

Depth to water _____ft.; Depth of well_____ft.; Perforation Interval _____-_____ft.; Casing:_____

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

Monument west well

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector):_____ Method of Shipment to the Lab:_____

This form accompanies 2 Septum Vials, _____ Glass Jugs, and/or _____ _____

Samples were preserved as follows:

- [ ] 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 Sodium Thiosulfate to remove chlorine residual.

CHAIN OF CUSTODY

I certify that this sample was transferred from _____ to _____

at (location) _____ on ____/____/____ - ____:____ and that

the statements in this block are correct. Evidentiary Seals: Not Sealed [ ] Seals Intact: Yes [ ] No [ ]

Signatures _____ _____

ANALYSES PERFORMED

LAB. No.: OR- 814

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- ☐ (753) Aliphatic Purgeables (1-3 Carbons)
- ☒ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (760) Organochlorine Pesticides
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
aromatic purgeables	ND		
halogenated purgeables	ND		
* DETECTION LIMIT * ✳	1 ppb	+ DETECTION LIMIT + +	

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT

T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)

[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS: _____

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes ☐ No ☒. 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 on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 24 July 86. Analyst's signature: J Tinney

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 Meyerhoff

State of New Mexico
HEALTH and ENVIRONMENT DEPARTMENT
SCIENTIFIC
LABORATORY DIVISION

CHEMICAL and PHYSICAL ANALYSES for WATER SAMPLES

Date received	Lab No.	SLD user code No.
6/2/86	HM-10421	52010

FOR PROPER PRESERVATION OF SAMPLES, CONSULT DEFINITIONS ON REVERSE. TYPE OR PRINT WITH BALL POINT PEN.

CHEMICAL ANALYSES: *Check individual items for analysis [Mark appropriate box(es)]*

INTERIM PRIMARY PARAMETER GROUP: ☐ 1 ☐ 2 ☐ 3

TYPE of CHEMICAL ANALYSIS: ☐ Complete Secondary ☐ Organic ☐ Radiological

Water Supply System Name	Water Supply System Code No.	City or Location	County	Check one:
MONUMENT		MONUMENT N.M.	LEA CO.	☐ TREATED WATER ☒ RAW WATER

Collection Date	Collection Time	Collection Point	Collector's remarks	Report to
5-27-86	11:30 AM	SCHOOL WELL #2	NF-A-5ML HNO3	OSCAR SIMPSON

Collected By	Owner	Address
OSCAR SIMPSON	SAME	E.I.D - WATER SUPPLY P.O. BOX 968 SANTA FE N.M. 87504

TYPE of SYSTEM *(Check one)*: ☐ PRIVATE PUBLIC: ☒ Community ☐ Non-community

SOURCE: ☐ Spring ☐ Lake ☐ Well-Depth ☐ Drain ☐ Stream ☐ Pool ☐ Other *(specify)*

LAT. ° ' "

LONG ° ' "

CATIONS	mg/l	ANIONS	mg/l	PHYSICAL		HEAVY METALS	mg/l	PARAMETER		ORGANIC	mg/l
00930 Sodium (as Na)		00940 Chloride (as Cl)		70300 Total Filterable Residue	mg/l	01000 Arsenic				39390 Endrin	
00935 Potassium (as K)		00950 Fluoride (as F)		38260 Foaming Agents (as Las)		01005 Barium				39732 Lindane	
00900 Tot. Hardness (as $CaCO_3$)		00620 Nitrate (as N)		00095 Conductance Micromhos 25°C		01025 Cadmium				38270 Methoxychlor	
00915 Calcium (as Ca)		00430 Alkalinity (as $CaCO_3$)		00400 pH		01030 Chromium		RADIOLOGICAL pCi/l 01501 Gross Alpha		39400 Toxaphene	
00925 Magnesium (as Mg)		00440 Bicarbonate (as HCO_3)		01330 Odor		01049 Lead		03501 Gross Beta	pCi/l	39730 2, 4-D	
01045 Iron-Total (as Fe)		00445 Carbonate (as CO_3)		00080 Color	mg/l	07180 Mercury		09501 Radium-226	pCi/l	39740 2, 4, 5-TP (Silvex)	
01056 Manganese (as Mn)		00945 Sulfate (as SO_4)		00070 Turbidity		01145 Selenium		11501 Radium-228	pCi/l		
		X I-CAP SCAN				01075 Silver					

LABORATORY REMARKS:

See attached sheet for ICAP SCAN.

Reviewed by: Jim Ashby

Date Reported: 6/10/86

SLD 702 Form Rev. 9/84

DISTRIBUTION: **White** - Water Supply Regulation, SF • **Canary** - WS System • **Pink** - EIA Regional Office • **Goldenrod** - SLD Lab

(2-A)

Lab Number: HM 1042 Sample Code: Monument School Well #2

Date Submitted: 6/2/86 Date Analyzed: 6/4/86

By: Oscar Simpson Reviewed By: Jim Kelly

Date Reported: 6/10/86

Element	ICAP VALUE(MG/L)	AA VALUE(MG/L)
Aluminum	<0.1	
Barium	0.1	
Berylium	<0.1	
Boron	0.2	
Cadmium	<0.1	
Calcium	140.	
Chromium	<0.1	
Cobalt	<0.1	
Copper	<0.1	
Iron	0.1	
Lead	<0.1	
Magnesium	17.	
Manganese	<0.05	
Molybdenum	<0.1	
Nickel	<0.1	
Silicon	20.	
Silver	<0.1	
Strontium	1.0	
Tin	<0.1	
Vanadium	<0.1	
Zinc	<0.1	
Arsenic		
Selenium		
Mercury		

State of New Mexico
HEALTH and ENVIRONMENT DEPARTMENT
SCIENTIFIC
LABORATORY DIVISION

CHEMICAL and PHYSICAL ANALYSES for WATER SAMPLES

820
2

Date received	Lab No.	SLD user code No.
6/2/86	WC-2358	52010

FOR PROPER PRESERVATION OF SAMPLES, CONSULT DEFINITIONS ON REVERSE. TYPE OR PRINT WITH BALL POINT PEN.

CHEMICAL ANALYSES: *Check individual items for analysis [Mark appropriate box(es)]*

INTERIM PRIMARY PARAMETER GROUP: ☐ 1 ☐ 2 ☐ 3

TYPE of CHEMICAL ANALYSIS: ☐ Complete Secondary ☐ Organic ☐ Radiological

Water Supply System Name	Water Supply System Code No.	City or Location	County	Check one:
MONUMENT N.M		MONUMENT	LEA CO.	☐ TREATED WATER ☒ RAW WATER

Collection Date	Collection Time	Collection Point	Collector's remarks	Report to
5-22-86	11:30 AM	TAP AT WELL HEAD	N.F-NA	OSCAR SIMPSON
Collected By	**Owner**		WELL #1 SCHOOL	Address EID-WATER SUPPLY P.O. BOX 968 SANTA FE N.M. 87504
O.A. SIMPSON	SAME			

TYPE of SYSTEM *(Check one)*: ☐ PRIVATE PUBLIC: ☒ Community ☐ Non-community

SOURCE: ☐ Spring ☐ Lake ☒ Well-Depth ☐ Drain ☐ Stream ☐ Pool ☐ Other *(specify)*

LAT. ° ' "
LONG ° ' "

CATIONS	mg/l	ANIONS	mg/l	PHYSICAL		HEAVY METALS	mg/l	PARAMETER		ORGANIC	mg/l
☒ 00930 Sodium (as Na)	598	☒ 00940 Chloride (as Cl)	1205	☒ 70300 Total Filterable Residue	mg/l 630	01000 Arsenic				39390 Endrin	
☒ 00935 Potassium (as K)	7.51	☒ 00950 Fluoride (as F)	0.83	38260 Foaming Agents (as Las)		01005 Barium				39732 Lindane	
☒ 00900 Tot. Hardness (as $CaCO_3$)	400	00620 Nitrate (as N)		00095 Conductance Micromhos 25°C		01025 Cadmium				38270 Methoxychlor	
☒ 00915 Calcium (as Ca)	180	☒ 00430 Alkalinity (as $CaCO_3$)	141	00400 pH		01030 Chromium		RADIOLOGICAL pCi/l 01501 Gross Alpha		39400 Toxaphene	
☒ 00925 Magnesium (as Mg)	171	☒ 00440 Bicarbonate (as HCO_3)	169	01330 Odor		01049 Lead		03501 Gross Beta	pCi/l	39730 2, 4-D	
01045 Iron-Total (as Fe)		☒ 00445 Carbonate (as CO_3)	14	00080 Color	mg/l	07180 Mercury		09501 Radium-226	pCi/l	39740 2, 4, 5-TP (Silvex)	
01056 Manganese (as Mn)		☒ 00945 Sulfate (as SO_4)	575	00070 Turbidity		01145 Selenium		11501 Radium-228	pCi/l		
		☒				01075 Silver					

RECEIVED
JUL 7 1986
WATER SUPPLY
REGULATION SECTION

LABORATORY REMARKS: ION BALANCE

Reviewed by

Date reported 6/24/86

SLD 702 Form Rev. 9/84

DISTRIBUTION: White - Water Supply Regulation, SF • Canary - WS System • Pink - EIA Regional Office • Goldenrod - SLD Lab

CATIONS				ANIONS		
ANALYTE	CALC.MEQ.	PPM	TYP.RANGE	ANALYTE	CALC.MEQ.	PPM
Ca	6.59	132	60-150	HCO3	2.77	169
Mg	1.41	17.1	0-10	SO4	1.20	57.5
Na	2.60	59.8	20-250	Cl	3.44	120.5
K	0.09	3.57	0-6			
Mn	0.00	0	0-1	NO3	0.00	0
Fe	0.00	0	0-5	CO3	0.00	0
	0.00	8				
TOTAL	10.69			TOTAL	7.41	

BALANCE (%) 144.1692

DATE 6/26
BY
ACC# 2358

86-0758-C

SCIENTIFIC LABORATORY DIVISION

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

STATE OF NEW MEXICO
HEALTH ENVIRONMENT

REPORT TO: David Boyer
N.M. Oil Conservation Division
P. O. Box 2088
Santa Fe, N.M. 87504-2088
PHONE(S): 827-5812

S.L.D. No. OR-758-17-B
DATE REC. 6-20-86
PRIORITY 2
USER CODE: 8 2 2 3 5

SUBMITTER: David Boyer
CODE: 2 6 0

SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 8 6 0 6 1 6 / 1 2 4 5 <DB

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

COUNTY: LEA ; CITY: MONUMENT CODE: |___|___|___|___|

LOCATION CODE: (Township-Range-Section-Tracts) / 1 9 S + 3 7 E + 2 9 + 3 4 4 (10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- [ ] (753) Aliphatic Purgeables (1-3 Carbons)
- [X] (754) Aromatic & Halogenated Purgeables
- [ ] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes

Other Specific Compounds or Classes

- [X] HEADSPACE
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (760) Organochlorine Pesticides
- [ ] (755) Base/Neutral Extractables
- [ ] (758) Herbicides, Chlorophenoxy acid
- [ ] (759) Herbicides, Triazines
- [ ] (760) Organochlorine Pesticides
- [ ] (761) Organophosphate Pesticides
- [ ] (767) Polychlorinated Biphenyls (PCB's)
- [ ] (764) Polynuclear Aromatic Hydrocarbons
- [ ] (762) SDWA Pesticides & Herbicides

Remarks: OXO SCHOOLHOUSE WELL (WEST)

FIELD DATA:

pH=_____; Conductivity=_____umho/cm at _____°C; Chlorine Residual=_____mg/l

Dissolved Oxygen=_____mg/l; Alkalinity=_____mg/l; Flow Rate_____ ____/____

Depth to water _____ft.; Depth of well 40-60 ft.; Perforation Interval ____-____ft.; Casing:_____

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

SAMPLED AT WELL

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): _____ Method of Shipment to the Lab: Hand Carried

This form accompanies 2 Septum Vials, ____ Glass Jugs, and/or ____ _____

Samples were preserved as follows:

- [ ] 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 Sodium Thiosulfate to remove chlorine residual.

CHAIN OF CUSTODY

I certify that this sample was transferred from _____ to _____

at (location) _____ on ____/____/____ - ____:____ and that

the statements in this block are correct. Evidentiary Seals: Not Sealed [ ] Seals Intact: Yes [ ] No [ ]

Signatures _____ _____

For OCD Use: Date Owner Notified _____ Phone or Letter?_____ Initials _____

ANALYSES PERFORMED

LAB. No.: OR- 758

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- [V] (753) Aliphatic Purgeables (1-3 Carbons)
- [X] (754) Aromatic & Halogenated Purgeables
- [X] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes

Other Specific Compounds or Classes

- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (760) Organochlorine Pesticides
- [ ] (755) Base/Neutral Extractables
- [ ] (758) Herbicides, Chlorophenoxy acid
- [ ] (759) Herbicides, Triazines
- [ ] (760) Organochlorine Pesticides
- [ ] (761) Organophosphate Pesticides
- [ ] (767) Polychlorinated Biphenyls (PCB's)
- [ ] (764) Polynuclear Aromatic Hydrocarbons
- [ ] (762) SDWA Pesticides & Herbicides

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
Natural gas	N.D.		
Aromatic purgeables	ND+		
Halogenated purgeables	ND+		
* DETECTION LIMIT *	5ppm+	+ DETECTION LIMIT +	1 ppb

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT
T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)
[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS: This sample had a small bubble of headspace. A trace of butanone was detected by the aromatic screen.

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 on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: July 86 8/27/86. Analyst's signature: CS Beerney JA 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: Gary C. Eden

86-0852-C

WPU

SCIENTIFIC LABORATORY DIVISION

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

HEALTH ENVIRONMENT — STATE OF NEW MEXICO

REPORT TO: Oscar Simpson
EID, water Supply
P.O. Box 968
Santa Fe, N.M. 87504-0968

S.L.D. No. OR- 019-852
DATE REC. 7-28-86
PRIORITY 1.5

PHONE(S): 827-2777
USER CODE: 52014
SUBMITTER: Don Lutjens
CODE:
SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 860727171740
SAMPLE TYPE: WATER ☑, SOIL ☐, FOOD ☐, OTHER:
COUNTY: Lea ; CITY: Monument
LOCATION CODE: (Township-Range-Section-Tracts) 19S37E29 (10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- ☐ (753) Aliphatic Purgeables (1-3 Carbons)
- ☑ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (760) Organochlorine Pesticides
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

Remarks: _____

FIELD DATA:

pH= 6.91; Conductivity=_____umho/cm at 19 °C; Chlorine Residual=_____mg/l

Dissolved Oxygen=_____mg/l; Alkalinity=_____mg/l; Flow Rate_____ _____/_____

Depth to water _____ft.; Depth of well_____ft.; Perforation Interval _____-_____ft.; Casing:_____

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

Monument water co-op west well

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): Don Lutjens Method of Shipment to the Lab:_____

This form accompanies 2 Septum Vials, _____ Glass Jugs, and/or _____ _____

Samples were preserved as follows:

- ☐ NP: No Preservation; Sample stored at room temperature.
- ☐ ~~P-Ice~~ Sample stored in an ice bath (Not Frozen).
- ☐ $P\text{-}Na_2S_2O_3$ Sample Preserved with Sodium Thiosulfate to remove chlorine residual.

CHAIN OF CUSTODY

I certify that this sample was transferred from _____ to _____

at (location) _____ on ____/____/____ - ____:____ and that the statements in this block are correct. Evidentiary Seals: Not Sealed ☐ Seals Intact: Yes ☐ No ☐

Signatures _____ _____

ANALYSES PERFORMED

LAB. No.: OR- 852

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- ☐ (753) Aliphatic Purgeables (1-3 Carbons)
- ☒ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (760) Organochlorine Pesticides
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
halogenated purgeables	ND		
aromatic purgeables	ND		
* DETECTION LIMIT * *	1 ppb	+ DETECTION LIMIT + +	

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT
T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)
[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS: _____

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes ☐ No ☒. 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 on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 28 July 86. Analyst's signature: A Finney

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 Meyerhen

MONUMENT N. M

OCD MONITOR WELL 1, 2, 3, 4 WATER SAMPLES BY OCD

CHEMICAL PARAMETERS	DATE	6/16/86	6/16/86	6/16/86	6/16/86
	TIME	1645	1600	1625	1540
	LAB #	86-0763-C	86-0766-C	WC 2786	86-0760-C
	MONITOR#	MW1	MW 2	MW 3	MW 4
ORGANICS					
1) PURGABLES					
A) NATURAL GAS			N/D	N/D	N/D
METHANE		7PPM			
ETHANE		TRACE			
PROPANE		TRACE			
DECTION LIMIT		5 PPM	5 PPM	5 PPM	5 PPM
B) AROMATICS			N/D +	N/D +	N/D
BENZENE		0.032PPM			
TOLUENE		N/D			
ETHYLBENZENE		N/D			
P-XYLENE		N/D			
m-XYLENE		N/D			
O-XYLENE		0.002PPM			
DECTION LIMIT		0.001PPM	0.001PPM	0.001PPM	0.001PPM
C) HALOGENATED		N/D +	N/D +	N/D +	N/D
OTHERS DETECTED			N/D		
HEXENE		DECTED			
CYCLO HEXANE		"			
DIMETHYLCYCLOHEXANE		"			
TRIMETHYL CYCLOHEXANE		"			
C3 & C4 CARBON SOBSTITUTED BENZENE COMPOUNDS		"			
BUTANONE				DECTED	
GENERAL CHEMISTRY					
CALCIUM		120.0 PPM	128 PPM	176 PPM	112 PPM
MAGNESIUM		12.2 PPM	8.78PPM	51.2 PPM	41.5 PPM
SODIUM		66.7 PPM	55.2 PPM	43.9 PPM	69 PPM
POTASSIUM		3.12PPM	3.12 PPM	15.6 PPM	3.12 PPM
BICARBONATE		470 PPM	440 PPM	366 PPM	560 PPM
CHLORIDE		123 PPM	78.5 PPM	422 PPM	105 PPM
SULFATE		35.5 PPM	41.8 PPM	34.5PPM	523 PPM
TOTAL FILTERABLE RESIDUE (TDS)		583 PPM	583 PPM	1683 PPM	608 PPM
CO_3		0 PPM	0 PPM	0 PPM	0 PPM
NITRATE-N / NITRATE-N TOTAL		—	—	—	
AMMONIA-N TOTAL		—	—	—	
TOTAL KJELDALL-N		—	—	—	
CONDUCTANCE		970 @ 24°C	920 @ 24°C	1550 @ 24°C	950 @ 26°C

NOTE SAMPLES 1) WC. 2786 HAD A SMALL BUBBLE OF HEADSPACE

86-0763-C

SCIENTIFIC LABORATORY DIVISION

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

STATE OF NEW MEXICO
HEALTH ENVIRONMENT

REPORT TO: David Boyer
N.M. Oil Conservation Division
P. O. Box 2088
Santa Fe, N.M. 87504-2088
PHONE(S): 827-5812

S.L.D. No. OR-763-FB
DATE REC. 6-20-86
PRIORITY 2
USER CODE: 8 2 2 3 5
SUBMITTER: David Boyer
CODE: 2 6 0

SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 8 6 0 2 6 / / 6 / / 6 4 5 FB

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

COUNTY: LEA ; CITY: MONUMENT CODE: |___|___|___|___|

LOCATION CODE: (Township-Range-Section-Tracts) / 1 9 S + 3 7 E + 2 9 + 4 / / 3 (10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- [ ] (753) Aliphatic Purgeables (1-3 Carbons)
- [X] (754) Aromatic & Halogenated Purgeables
- [ ] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes

Other Specific Compounds or Classes

- [X] HEADSPACE
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (760) Organochlorine Pesticides
- [ ] (755) Base/Neutral Extractables
- [ ] (758) Herbicides, Chlorophenoxy acid
- [ ] (759) Herbicides, Triazines
- [ ] (760) Organochlorine Pesticides
- [ ] (761) Organophosphate Pesticides
- [ ] (767) Polychlorinated Biphenyls (PCB's)
- [ ] (764) Polynuclear Aromatic Hydrocarbons
- [ ] (762) SDWA Pesticides & Herbicides

Remarks: OCD MW 1

FIELD DATA:

pH=_____; Conductivity= 970 umho/cm at 24 °C; Chlorine Residual=_____mg/l

Dissolved Oxygen=_____mg/l; Alkalinity=_____mg/l; Flow Rate_____ ____/____

Depth to water 20.23 ft.; Depth of well 32.8 ft.; Perforation Interval ____-____ft.; Casing: 4" PVC

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

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): _____ Method of Shipment to the Lab: Hand Carried

This form accompanies ____ Septum Vials, ____ Glass Jugs, and/or ____ _____

Samples were preserved as follows:

- [ ] 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 Sodium Thiosulfate to remove chlorine residual.

CHAIN OF CUSTODY

I certify that this sample was transferred from _____ to _____

at (location) _____ on ____/____/____ - ____:____ and that

the statements in this block are correct. Evidentiary Seals: Not Sealed [ ] Seals Intact: Yes [ ] No [ ]

Signatures _____ _____

For OCD Use: Date Owner Notified _____ Phone or Letter?_____ Initials _____

ANALYSES PERFORMED

LAB. No.: OR- 763

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- [x] (753) Aliphatic Purgeables (1-3 Carbons)
- [x] (754) Aromatic & Halogenated Purgeables
- [x] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes

Other Specific Compounds or Classes

- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (760) Organochlorine Pesticides
- [ ] (755) Base/Neutral Extractables
- [ ] (758) Herbicides, Chlorophenoxy acid
- [ ] (759) Herbicides, Triazines
- [ ] (760) Organochlorine Pesticides
- [ ] (761) Organophosphate Pesticides
- [ ] (767) Polychlorinated Biphenyls (PCB's)
- [ ] (764) Polynuclear Aromatic Hydrocarbons
- [ ] (762) SDWA Pesticides & Herbicides

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
Methane	7ppm	benzene +	32
Ethane	T.R.	toluene +	ND
Propane	T.R.	ethylbenzene +	ND
		p-xylene +	ND
halogenated purgeables	ND +	m-xylene +	ND
		o-xylene +	2
* DETECTION LIMIT *	5ppm	+ DETECTION LIMIT +	1ppb

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT
T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)
[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS: Other compounds detected by GC/MS include hexane or cyclohexane, dimethylcyclohexane, trimethylcyclohexane, and three carbon and four carbon substituted benzene compounds.

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 on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 8 July 86 6/27/86. Analyst's signature: C S Beerney J K 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: Mary C Eden

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

859
999

PRIORITY 2

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED: 6 20 86	LAB NO. WC-2781	USER CODE ☐ 59300 ☐ 59600 ☒ OTHER: 82235	
Collection DATE: 6/16/86	SITE INFORMATION ►	Sample location: OCD MW1 - MONUMENT	
Collection TIME: 1645		Collection site description:	
Collected by — Person/Agency: RAILEY / SEAY / OCD			

SEND FINAL REPORT TO ►

ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg, PO Box 2088
Santa Fe, NM 87504-2088

Attn: David Boyer

Phone: 827-5812

Station/ well code:

Owner:

SAMPLING CONDITIONS

☐ Bailed ☒ Pump ☐ Dipped ☐ Tap	Water level: 20.23	Discharge:	Sample type:
pH (00400)	Conductivity (Uncorrected): 970 µmho	Water Temp. (00010): 24 °C	Conductivity at 25°C (00094): µmho

Field comments: TD 32.8 ~~BAILED~~ PUMPED 8 MIN. 4" PVC CSG

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:* ☐ A: 5ml conc. HNO_3 added ☐ A: 4ml fuming HNO_3 added

ANALYTICAL RESULTS from SAMPLES

NF

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)	120.0	mg/l	6-23
☒ Magnesium (00925)	12.3	mg/l	"
☒ Sodium (00930)	66.7	mg/l	"
☒ Potassium (00935)	3.12	mg/l	"
☒ Bicarbonate (00440)	470	mg/l	6/24
☒ Chloride (00940)	1.23	mg/l	7/11
☒ Sulfate (00945)	35.5	mg/l	7/15
☒ Total filterable residue (dissolved) (70300)	583	mg/l	6/30
☒ Other: CO_3	0		6/24

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
	7/16/86	CO

Laboratory remarks:

FOR OCD USE -- Date Owner Notified _____ Phone or Letter? _____ Initals _____

43

86- 0759-C

SCIENTIFIC LABORATORY DIVISION

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

HEALTH ENVIRONMENT — STATE OF NEW MEXICO

REPORT TO: David Boyer
N.M. Oil Conservation Division
P. O. Box 2088
Santa Fe, N.M. 87504-2088
PHONE(S): 827-5812

S.L.D. No. OR- 759-A,B
DATE REC. 6/20/86
PRIORITY 2
USER CODE: 8 2 2 3 5
SUBMITTER: David Boyer
CODE: 2 6 0

SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 8 6 0 6 1 6 1 6 2 5 4 ~~5~~ 8

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

COUNTY: LEA ; CITY: MONUMENT CODE: ____

LOCATION CODE: (Township-Range-Section-Tracts) 1 9 S + 3 7 E + 2 9 + 4 1 3 (10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- [ ] (753) Aliphatic Purgeables (1-3 Carbons)
- [X] (754) Aromatic & Halogenated Purgeables
- [ ] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes

Other Specific Compounds or Classes

- [X] HEADSPACE
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (760) Organochlorine Pesticides
- [ ] (755) Base/Neutral Extractables
- [ ] (758) Herbicides, Chlorophenoxy acid
- [ ] (759) Herbicides, Triazines
- [ ] (760) Organochlorine Pesticides
- [ ] (761) Organophosphate Pesticides
- [ ] (767) Polychlorinated Biphenyls (PCB's)
- [ ] (764) Polynuclear Aromatic Hydrocarbons
- [ ] (762) SDWA Pesticides & Herbicides

Remarks: OCD MW3

FIELD DATA:

pH=_____; Conductivity=1550 umho/cm at 24 °C; Chlorine Residual=_____ mg/l

Dissolved Oxygen=_____ mg/l; Alkalinity=_____ mg/l; Flow Rate_____ ____/____

Depth to water 17.25 ft.; Depth of well 29.3 ft.; Perforation Interval ____-____ ft.; Casing: 4" PVC

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

~~BAIL~~ PUMPED 7 MIN

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): Jamie Barber Method of Shipment to the Lab: Hand Carried

This form accompanies 2 Septum Vials, ____ Glass Jugs, and/or ____ _____

Samples were preserved as follows:

- [ ] 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 Sodium Thiosulfate to remove chlorine residual.

CHAIN OF CUSTODY

I certify that this sample was transferred from _____ to _____

at (location) _____ on ____/____/____ - ____:____ and that

the statements in this block are correct. Evidentiary Seals: Not Sealed [ ] Seals Intact: Yes [ ] No [ ]

Signatures _____ _____

For OCD Use: Date Owner Notified _____ Phone or Letter?_____ Initials _____

ANALYSES PERFORMED

LAB. No.: OR- 759

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- [x] (753) Aliphatic Purgeables (1-3 Carbons)
- [x] (754) Aromatic & Halogenated Purgeables
- [ ] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes

Other Specific Compounds or Classes

- [ ] ______
- [ ] ______
- [ ] ______
- [ ] ______
- [ ] ______

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (760) Organochlorine Pesticides
- [ ] (755) Base/Neutral Extractables
- [ ] (758) Herbicides, Chlorophenoxy acid
- [ ] (759) Herbicides, Triazines
- [ ] (760) Organochlorine Pesticides
- [ ] (761) Organophosphate Pesticides
- [ ] (767) Polychlorinated Biphenyls (PCB's)
- [ ] (764) Polynuclear Aromatic Hydrocarbons
- [ ] (762) SDWA Pesticides & Herbicides

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
natural gas	N.D.		
aromatic purgeables	ND +		
halogenated purgeables	ND +		
* DETECTION LIMIT *	5ppm	+ DETECTION LIMIT +	1 ppb

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT

T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)

[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS: This sample had a small bubble of headspace. A trace of butanone was detected by the aromatic screen.

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 on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 6/27/86 July 86. Analyst's signature: C S Beeney, J. Birney

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block.

Reviewers signature: Mary C. Eden

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

859 999

PRIORITY 2

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED 6 20 86	LAB NO. WC-2786	USER CODE ☐ 59300 ☐ 59600 ☒ OTHER: 82235	
Collection DATE 6 16 86	SITE INFORMATION ►	Sample location MONUMENT OCD MW3	
Collection TIME 1625		Collection site description	
Collected by — Person/Agency BAILEY/SEAY /OCD			

SEND FINAL REPORT TO ►

ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg, PO Box 2088
Santa Fe, NM 87504-2088

Attn: David Boyer

Phone: 827-5812

Station/ well code

Owner

SAMPLING CONDITIONS

☐ Bailed ☐ Dipped ☒ Pump ☐ Tap	Water level 17.25	Discharge	Sample type
pH (00400)	Conductivity (Uncorrected) 1550 µmho	Water Temp. (00010) 24 °C	Conductivity at 25°C (00094) µmho

Field comments TD 29.3 4" PVC PUMPED 7 MIN

SAMPLE FIELD TREATMENT — *Check proper boxes*

No. of samples submitted

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

☒ **NA:** No acid added ☐ Other-*specify:* ☐ A: 5ml conc. HNO_3 added ☐ A: 4ml fuming HNO_3 added

ANALYTICAL RESULTS from SAMPLES

NF

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)	176	mg/l	6-23
☒ Magnesium (00925)	57.2	mg/l	"
☒ Sodium (00930)	43.9	mg/l	"
☒ Potassium (00935)	15.6	mg/l	"
☒ Bicarbonate (00440)	566	mg/l	7/11
☒ Chloride (00940)	422	mg/l	7/11
☒ Sulfate (00945)	34.5	mg/l	7/15
☒ Total filterable residue (dissolved) (70300)	1683	mg/l	6/30
☐ Other: CO3	0		7/11

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
	7 16 86	

Laboratory remarks

FOR OCD USE -- Date Owner Notified _____ Phone or Letter? _____ Initals _____

42

86-0766-C

SCIENTIFIC LABORATORY DIVISION

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

STATE OF NEW MEXICO ENVIRONMENT

REPORT TO: David Boyer
N.M. Oil Conservation Division
P. O. Box 2088
Santa Fe, N.M. 87504-2088
PHONE(S): 827-5812

S.L.D. No. OR-766-A,B
DATE REC. 6/20/86
PRIORITY 2
USER CODE: 8 2 2 3 5
SUBMITTER: David Boyer
CODE: 2 6 0

SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 8 6 0 6 1 6 / 1 6 / 1 6 1 0 1 4 B

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

COUNTY: LEA ; CITY: MONUMENT CODE: | | | | |

LOCATION CODE: (Township-Range-Section-Tracts) 1 9 S + 3 7 E + 2 9 + 3 2 4 (10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- [ ] (753) Aliphatic Purgeables (1-3 Carbons)
- [X] (754) Aromatic & Halogenated Purgeables
- [ ] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes

Other Specific Compounds or Classes

- [X] HEADSPACE
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (760) Organochlorine Pesticides
- [ ] (755) Base/Neutral Extractables
- [ ] (758) Herbicides, Chlorophenoxy acid
- [ ] (759) Herbicides, Triazines
- [ ] (760) Organochlorine Pesticides
- [ ] (761) Organophosphate Pesticides
- [ ] (767) Polychlorinated Biphenyls (PCB's)
- [ ] (764) Polynuclear Aromatic Hydrocarbons
- [ ] (762) SDWA Pesticides & Herbicides

Remarks: OCD MW 2

FIELD DATA:

pH=_____; Conductivity=920 umho/cm at 24 °C; Chlorine Residual=_____ mg/l

Dissolved Oxygen=_____ mg/l; Alkalinity=_____ mg/l; Flow Rate_____ ____/____

Depth to water 20.43 ft.; Depth of well 33.7 ft.; Perforation Interval ____-____ ft.; Casing: 4" PVC

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

PUMPED 8 MIN

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): _____ Method of Shipment to the Lab: Hand carried

This form accompanies 2 Septum Vials, ____ Glass Jugs, and/or ____ _____

Samples were preserved as follows:

- [ ] 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 Sodium Thiosulfate to remove chlorine residual.

CHAIN OF CUSTODY

I certify that this sample was transferred from _____ to _____

at (location) _____ on ____/____/____ - ____:____ and that

the statements in this block are correct. Evidentiary Seals: Not Sealed [ ] Seals Intact: Yes [ ] No [ ]

Signatures _____ _____

For OCD Use: Date Owner Notified _____ Phone or Letter?_____ Initials _____

ANALYSES PERFORMED

LAB. No.: OR- 766

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- [x] (753) Aliphatic Purgeables (1-3 Carbons)
- [x] (754) Aromatic & Halogenated Purgeables
- [ ] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes

Other Specific Compounds or Classes

- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (760) Organochlorine Pesticides
- [ ] (755) Base/Neutral Extractables
- [ ] (758) Herbicides, Chlorophenoxy acid
- [ ] (759) Herbicides, Triazines
- [ ] (760) Organochlorine Pesticides
- [ ] (761) Organophosphate Pesticides
- [ ] (767) Polychlorinated Biphenyls (PCB's)
- [ ] (764) Polynuclear Aromatic Hydrocarbons
- [ ] (762) SDWA Pesticides & Herbicides

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
Natural gas	N.D.		
aromatic purgeables	ND+		
halogenated purgeables	ND+		
* DETECTION LIMIT *	5 ppm	+ DETECTION LIMIT +	1 ppb

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT

T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)

[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY 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 on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 6/27/86 & July 86. Analyst's signature: C. S. Barnes J. A. Finney

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block.

Reviewers signature: Mary C. Eden

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

859
999

PRIORITY 2

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED 6 20 86	LAB NO. WC-2782	USER CODE ☐ 59300 ☐ 59600 ☒ OTHER: 82235	
Collection DATE 6/16/86	SITE INFORM-ATION ►	Sample location MONUMENT OCD MW 2	
Collection TIME 1600		Collection site description	
Collected by — Person/Agency /OCD			

SEND FINAL REPORT TO ►

ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg, PO Box 2088
Santa Fe, NM 87504-2088

Attn: David Boyer

Phone: 827-5812

Station/ well code

Owner

SAMPLING CONDITIONS

☐ Bailed ☒ Pump ☐ Dipped ☐ Tap	Water level 20.43	Discharge	Sample type
pH (00400)	Conductivity (Uncorrected) 920 µmho	Water Temp. (00010) 24 °C	Conductivity at 25°C (00094) µmho

Field comments PUMPED 8 MIN. 4" PVC TD 33.7

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:* ☐ A: 5ml conc. HNO_3 added ☐ A: 4ml fuming HNO_3 added

ANALYTICAL RESULTS from SAMPLES

NF

NF, NA		Units	Date analyzed	F, NA		Units	Date analyzed
☐ Conductivity (Corrected) 25°C (00095)		µmho		☒ Calcium (00915)	128	mg/l	6/23
☐ Total non-filterable residue (suspended) (00530)		mg/l		☒ Magnesium (00925)	8.78	mg/l	4
☐ Other:				☒ Sodium (00930)	55.2	mg/l	"
☐ Other:				☒ Potassium (00935)	3.12	mg/l	"
☐ Other:				☒ Bicarbonate (00440)	440	mg/l	6/24
				☒ Chloride (00940)	98.5	mg/l	7/11
				☒ Sulfate (00945)	41.8	mg/l	7/15
				☒ Total filterable residue (dissolved) (70300)	583	mg/l	6/30
				☒ Other: CO_3	0		6/24

NF, A-H_2SO_4				F, A-H_2SO_4			
☐ Nitrate-N + , Nitrate-N total (00630)		mg/l		☐ Nitrate-N + , Nitrate-N dissolved (00631)		mg/l	
☐ Ammonia-N total (00610)		mg/l		☐ Ammonia-N dissolved (00608)		mg/l	
☐ Total Kjeldahl-N ( )		mg/l		☐ Total Kjeldahl-N ( )		mg/l	
☐ Chemical oxygen demand (00340)		mg/l		☐ Other:			
☐ Total organic carbon ( )		mg/l					
☐ Other:							
☐ Other:							

Analyst	Date Reported	Reviewed by
	7/16/86	CW

Laboratory remarks

FOR OCD USE -- Date Owner Notified _____ Phone or Letter? _____ Initals _____

4

86-0760-C

SCIENTIFIC LABORATORY DIVISION

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

STATE OF NEW MEXICO
HEALTH ENVIRONMENT

REPORT TO: David Boyer
N.M. Oil Conservation Division
P. O. Box 2088
Santa Fe, N.M. 87504-2088

S.L.D. No. OR- 760-17B
DATE REC. 6/20/86
PRIORITY 2

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

SUBMITTER: David Boyer
CODE: 2 6 0

SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 8 6 0 6 1 6 1 5 4 0 GRD

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

COUNTY: LEA ; CITY: MONUMENT CODE: _____

LOCATION CODE: (Township-Range-Section-Tracts) 1 9 S + 3 7 E + 2 9 + 3 2 3 (10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- [ ] (753) Aliphatic Purgeables (1-3 Carbons)
- [X] (754) Aromatic & Halogenated Purgeables
- [ ] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes

Other Specific Compounds or Classes

- [X] HEADSPACE
- [ ]
- [ ]
- [ ]
- [ ]

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (760) Organochlorine Pesticides
- [ ] (755) Base/Neutral Extractables
- [ ] (758) Herbicides, Chlorophenoxy acid
- [ ] (759) Herbicides, Triazines
- [ ] (760) Organochlorine Pesticides
- [ ] (761) Organophosphate Pesticides
- [ ] (767) Polychlorinated Biphenyls (PCB's)
- [ ] (764) Polynuclear Aromatic Hydrocarbons
- [ ] (762) SDWA Pesticides & Herbicides

Remarks: OCD MW 4

FIELD DATA:

pH= _____; Conductivity= 950 umho/cm at 26 °C; Chlorine Residual= _____ mg/l

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

Depth to water 26.62 ft.; Depth of well 335 ft.; Perforation Interval _____-_____ ft.; Casing: 4" PVC

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

PUMPED 6 MIN

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): J. Bailey Method of Shipment to the Lab: Hand-carried

This form accompanies 2 Septum Vials, _____ Glass Jugs, and/or _____ _____

Samples were preserved as follows:

- [ ] 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 Sodium Thiosulfate to remove chlorine residual.

CHAIN OF CUSTODY

I certify that this sample was transferred from _____ to _____

at (location) _____ on _____/_____/_____ - _____:_____ and that

the statements in this block are correct. Evidentiary Seals: Not Sealed [ ] Seals Intact: Yes [ ] No [ ]

Signatures _____ _____

For OCD Use: Date Owner Notified _____ Phone or Letter? _____ Initials _____

ANALYSES PERFORMED

LAB. No.: OR- 760

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- [x] (753) Aliphatic Purgeables (1-3 Carbons)
- [x] (754) Aromatic & Halogenated Purgeables
- [ ] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes

Other Specific Compounds or Classes

- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (760) Organochlorine Pesticides
- [ ] (755) Base/Neutral Extractables
- [ ] (758) Herbicides, Chlorophenoxy acid
- [ ] (759) Herbicides, Triazines
- [ ] (760) Organochlorine Pesticides
- [ ] (761) Organophosphate Pesticides
- [ ] (767) Polychlorinated Biphenyls (PCB's)
- [ ] (764) Polynuclear Aromatic Hydrocarbons
- [ ] (762) SDWA Pesticides & Herbicides

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. ~~[PPB]~~	COMPOUND(S) DETECTED	CONC. [PPB]
Natural gas	N.D.		
aromatic purgeables	ND		
halogenated purgeables	ND		
* DETECTION LIMIT *	5ppm	+ DETECTION LIMIT +	1ppb

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT
T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)
[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY 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 on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 6/27/86. Analyst's signature: C S Burney

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block.

Reviewers signature: Mary C. Eden

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

859
999

PRIORITY 2

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED 6 20 86	LAB NO. WC-2780	USER CODE ☐ 59300 ☐ 59600 ☒ OTHER: 82235	
Collection DATE 6 16 86	SITE INFORM-ATION ►	Sample location MONUMENT OCO MW4	
Collection TIME 1540		Collection site description	
Collected by — Person/Agency BAILEY / SEAY / OCD			

SEND FINAL REPORT TO ►

ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg, PO Box 2088
Santa Fe, NM 87504-2088

Attn: David Boyer

Phone: 827-5812

Station/ well code

Owner

SAMPLING CONDITIONS

☐ Bailed ☐ Dipped ☒ Pump ☐ Tap	Water level 20.62	Discharge	Sample type
pH (00400)	Conductivity (Uncorrected) 950 µmho	Water Temp. (00010) 26 °C	Conductivity at 25°C (00094) µmho

Field comments TD 33.5 4" PVC PUMPED 6 MIN

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:* ☐ A: 5ml conc. HNO_3 added ☐ A: 4ml fuming HNO_3 added

ANALYTICAL RESULTS from SAMPLES

NF

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)	112	mg/l	6-23
☒ Magnesium (00925)	41.5	mg/l	"
☒ Sodium (00930)	69	mg/l	"
☒ Potassium (00935)	3.12	mg/l	"
☒ Bicarbonate (00440)	560	mg/l	6/24
☒ Chloride (00940)	105	mg/l	7/11
☒ Sulfate (00945)	57.3	mg/l	7/15
☒ Total filterable residue (dissolved) (70300)	608	mg/l	6/30
☒ Other: CO_3	0		6/24

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
	7 16 86	

Laboratory remarks

FOR OCD USE -- Date Owner Notified _____ Phone or Letter? _____ Initals _____

90

	Initials	Date
Prepared by		
Approved by		

MONUMENT N.M

RECENT SAMPLES FROM MONUMENTS DIST. SYSTEM

	1	2	3	4	5	6
	DATE	7/22/86	7/27/86	7/27/86		
CHEMICAL	TIME	11:10	1710	1640		
PARAMETERS	LAB #	86-0845-C	86-0851-C	86-0850-C		
	LOCATION	MONUMENT GROCERY	BOBBY BATES	O/L PATCH CAFE		
ORGANICS						
1) PURGABLES						
A) AROMATICS		N/D				
BENZENE			0.001PPM	0.001PPM		
B) HALOGENATED		N/D	N/D	N/D		
~~DE~~ OTHERS						
DECTION LIMIT		0.001PPM	0.001PPM	0.001PPM		

86- 0845-C

SCIENTIFIC LABORATORY DIVISION

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

STATE OF NEW MEXICO
ENVIRONMENT

REPORT TO: Oscar Simpson
EID water Supply
P.O. Box 968
Santa Fe, N.M. 87504-0968
PHONE(S): 827-2777

S.L.D. No. OR- 8645-A-E
DATE REC. 7/[illegible]
PRIORITY 1,5
USER CODE: 5 2 0 1 4

SUBMITTER: R. Ruffner
CODE:

SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 8 6 0 7 2 2 1 1 1 0

SAMPLE TYPE: WATER ☑, SOIL ☐, FOOD ☐, OTHER:

COUNTY: Lea ; CITY: Monument

LOCATION CODE: (Township-Range-Section-Tracts) (10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- ☐ (753) Aliphatic Purgeables (1-3 Carbons)
- ☑ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (760) Organochlorine Pesticides
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

Remarks: _____

FIELD DATA:

pH=_____; Conductivity=_____umho/cm at _____°C; Chlorine Residual=_____mg/l

Dissolved Oxygen=_____mg/l; Alkalinity=_____mg/l; Flow Rate_____ ____/____

Depth to water _____ft.; Depth of well_____ft.; Perforation Interval _____-_____ft.; Casing:_____

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

Monument Distribution: Monument Grocery
Deli Sink, cold water line

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector):_____ Method of Shipment to the Lab:_____

This form accompanies 2 Septum Vials, _____ Glass Jugs, and/or _____ _____

Samples were preserved as follows:

- ☐ 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 Sodium Thiosulfate to remove chlorine residual.

CHAIN OF CUSTODY

I certify that this sample was transferred from _____ to _____

at (location) _____ on ____/____/____ - ____:____ and that

the statements in this block are correct. Evidentiary Seals: Not Sealed ☐ Seals Intact: Yes ☐ No ☐

Signatures _____ _____

ANALYSES PERFORMED

LAB. No.: OR- 645

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- ☐ (753) Aliphatic Purgeables (1-3 Carbons)
- ☒ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (760) Organochlorine Pesticides
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
aromatic purgeables	ND		
halogenated purgeables	ND		
* DETECTION LIMIT *	* 1 ppb	+ DETECTION LIMIT +	+

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT

T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)

[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS: This sample had a small fraction of headspace.

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes ☐ No ☒. 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 on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 24 July 91. Analyst's 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: _____

86-0850-C

wpu

SCIENTIFIC LABORATORY DIVISION

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

STATE OF NEW MEXICO
ENVIRONMENT

REPORT TO: Oscar Simpson
EID, Water Supply
P.O. Box 968
Santa Fe, N.M. 87504-0968

S.L.D. No. OR- org-850
DATE REC. 7-28-86
PRIORITY 1,5

PHONE(S): 827-2777
USER CODE: 5|2|6|1|4|

SUBMITTER: Don Luttjens
CODE: | | |

SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) |8|6|0|7|2|7|1|6|4|0| | | |

SAMPLE TYPE: WATER ☒, SOIL ☐, FOOD ☐, OTHER: _____

COUNTY: Lea ; CITY: Monument

LOCATION CODE: (Township-Range-Section-Tracts) |1|9|S+3|7|E+2|9+| | | |(10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- ☐ (753) Aliphatic Purgeables (1-3 Carbons)
- ☒ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (760) Organochlorine Pesticides
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

Remarks: _____

FIELD DATA:

pH= 7.35; Conductivity=_____umho/cm at 23 °C; Chlorine Residual=_____mg/l

Dissolved Oxygen=_____mg/l; Alkalinity=_____mg/l; Flow Rate_____ _____/_____

Depth to water _____ft.; Depth of well_____ft.; Perforation Interval _____-_____ft.; Casing:_____

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

water slightly milky from bubbles. Impossible to get all bubbles out
Oil Patch Cafe 1/4 mile ENE of Holding Tank

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): Don Luttjens Method of Shipment to the Lab: Messenger

This form accompanies 2 Septum Vials, _____ Glass Jugs, and/or _____ _____

Samples were preserved as follows:

- ☐ 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 Sodium Thiosulfate to remove chlorine residual.

CHAIN OF CUSTODY

I certify that this sample was transferred from _____ to _____

at (location) _____ on ____/____/____ - ____:____ and that

the statements in this block are correct. Evidentiary Seals: Not Sealed ☐ Seals Intact: Yes ☐ No ☐

Signatures _____ _____

ANALYSES PERFORMED

LAB. No.: OR- 850

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- ☐ (753) Aliphatic Purgeables (1-3 Carbons)
- ☒ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (760) Organochlorine Pesticides
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
halogenated purgeables	ND		
aromatic purgeables:			
benzene	1 ppb		
* DETECTION LIMIT * ✳	1 ppb	+ DETECTION LIMIT + +	

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT
T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)
[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS: Good sample, no head-space.

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes ☐ No ☒. 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 on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 23 July 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]

86-0851-C

wpu

SCIENTIFIC LABORATORY DIVISION

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

HEALTH ENVIRONMENT — STATE OF NEW MEXICO

REPORT TO: Oscar Simpson
EID, Water Supply
P.O. Box 968
Santa Fe, N.M. 87504-0968

S.L.D. No. OR- Org - 851

DATE REC. 7-28-86

PRIORITY 1,5

PHONE(S): 827-2777

USER CODE: 5|2|0|1|4|

SUBMITTER: Don Lutjens

CODE: | | | |

SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 8|6|0|7|2|7|1|7|1|0| | | |

SAMPLE TYPE: WATER ☑, SOIL ☐, FOOD ☐, OTHER: _____

COUNTY: Lea ; CITY: Monument

LOCATION CODE: (Township-Range-Section-Tracts) 1|9|S+3|7|E+2|9+ | | | |(10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- ☐ (753) Aliphatic Purgeables (1-3 Carbons)
- ☑ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (760) Organochlorine Pesticides
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

Remarks: _____

FIELD DATA:

pH=_____; Conductivity=_____umho/cm at _____°C; Chlorine Residual=_____mg/l

Dissolved Oxygen=_____mg/l; Alkalinity=_____mg/l; Flow Rate_____ _____/_____

Depth to water _____ft.; Depth of well_____ft.; Perforation Interval _____-_____ft.; Casing:_____

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

Bobby Bates Kitchen Sink. About 70 yards SW of Holding Tanks

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): Don Lutjens Method of Shipment to the Lab:_____

This form accompanies 2 Septum Vials, _____ Glass Jugs, and/or _____ _____

Samples were preserved as follows:

- ☐ 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 Sodium Thiosulfate to remove chlorine residual.

CHAIN OF CUSTODY

I certify that this sample was transferred from _____ to _____

at (location) _____ on ____/____/____ - ____:____ and that

the statements in this block are correct. Evidentiary Seals: Not Sealed ☐ Seals Intact: Yes ☐ No ☐

Signatures _____ _____

ANALYSES PERFORMED

LAB. No.: OR- 851

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- ☐ (753) Aliphatic Purgeables (1-3 Carbons)
- ☒ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (760) Organochlorine Pesticides
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
halogenated purgeables	ND		
aromatic purgeables:			
benzene	1 ppb		
* DETECTION LIMIT * ✳	1 ppb	+ DETECTION LIMIT + +	

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT

T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)

[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS: _____

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes ☐ No ☒. 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 on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 28 July 86. Analyst's signature: J. 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

	Initials	Date
Prepared		
Approved		

MONUMENT N. M.

OCD CONTINGENCY WELL - WATER SAMPLES By EID

1 2 3 4 5 OCD

CHEMICAL PARAMETERS				
	DATE:	2/12/85		6/16/86
	TIME	11:00 AM	UNITS	1420
	LAB #	123-E		86-765
ORGANICS				
NATURAL GAS				N/D
PURGEABLES				
A) AROMATIC		N/D		N/D
B) HALOGENATED		N/D		N/D
DECTION LIMIT		0.001 PPM		0.001 PPM
GENERAL CHEMISTRY				
SODIUM		59.8	PPM	69 PPM
POTASSIUM		3.9	PPM	3.12 PPM
TOTAL HARDNESS		436	PPM	
CALCIUM		142	PPM	166 PPM
MAGNESIUM		19.1	PPM	21.0 PPM
CHLORIDE		211.4	PPM	244 PPM CL
FLUORIDE		0.97	PPM	
ALKALINITY		211	PPM	
BICARBONATE		258	PPM	262 PPM
CARBONATE		0.0	PPM	
SULFATE		45.2	PPM	561 PPM
TOTAL FILERABLE RES. (TDS)		—	PPM	1046 PPM TDS
CONDUCTANCE		1076		1230 @ 25°C
PH		7.03	PPM	
NITRATE		2.64	PPM	2.2 PPM
CO_3				0
AMMONIA				0.26 PPM
TOTAL KJELDAHL-N				0.56 PPM

86-0765-C

SCIENTIFIC LABORATORY DIVISION

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

STATE OF NEW MEXICO
HEALTH ENVIRONMENT

REPORT TO: David Boyer
N.M. Oil Conservation Division
P. O. Box 2088
Santa Fe, N.M. 87504-2088
PHONE(S): 827-5812

S.L.D. No. OR-765-H,B
DATE REC. 6/20/86
PRIORITY 2
USER CODE: 8 2 2 3 5
SUBMITTER: David Boyer
CODE: 2 6 0

SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 8 6 0 6 / 1 6 / 1 4 2 0 (H,B)

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

COUNTY: LEA ; CITY: MONUMENT CODE: |___|___|___|___|

LOCATION CODE: (Township-Range-Section-Tracts) 1 9 S + 3 7 E + 2 9 + 1 4 3 (10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- [ ] (753) Aliphatic Purgeables (1-3 Carbons)
- [X] (754) Aromatic & Halogenated Purgeables
- [ ] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes

Other Specific Compounds or Classes

- [X] HEADSPACE
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (760) Organochlorine Pesticides
- [ ] (755) Base/Neutral Extractables
- [ ] (758) Herbicides, Chlorophenoxy acid
- [ ] (759) Herbicides, Triazines
- [ ] (760) Organochlorine Pesticides
- [ ] (761) Organophosphate Pesticides
- [ ] (767) Polychlorinated Biphenyls (PCB's)
- [ ] (764) Polynuclear Aromatic Hydrocarbons
- [ ] (762) SDWA Pesticides & Herbicides

Remarks: OCD REPLACEMENT WELL

FIELD DATA:

pH=_____; Conductivity=1230 umho/cm at 25 °C; Chlorine Residual=_____ mg/l

Dissolved Oxygen=_____ mg/l; Alkalinity=_____ mg/l; Flow Rate_____ ____/____

Depth to water 18.4 ft.; Depth of well_____ ft.; Perforation Interval ____-____ ft.; Casing: 6" PVC

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

Pumped 6 min

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector) Tami Bailey Method of Shipment to the Lab: Hand carried

This form accompanies 2 Septum Vials, _____ Glass Jugs, and/or _____ _____

Samples were preserved as follows:

- [ ] 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 Sodium Thiosulfate to remove chlorine residual.

CHAIN OF CUSTODY

I certify that this sample was transferred from _____ to _____

at (location) _____ on ____/____/____ - ____:____ and that

the statements in this block are correct. Evidentiary Seals: Not Sealed [ ] Seals Intact: Yes [ ] No [ ]

Signatures _____ _____

For OCD Use: Date Owner Notified _____ Phone or Letter?_____ Initials _____

ANALYSES PERFORMED

LAB. No.: OR- 765

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- [x] (753) Aliphatic Purgeables (1-3 Carbons)
- [x] (754) Aromatic & Halogenated Purgeables
- [ ] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes

Other Specific Compounds or Classes

- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (760) Organochlorine Pesticides
- [ ] (755) Base/Neutral Extractables
- [ ] (758) Herbicides, Chlorophenoxy acid
- [ ] (759) Herbicides, Triazines
- [ ] (760) Organochlorine Pesticides
- [ ] (761) Organophosphate Pesticides
- [ ] (767) Polychlorinated Biphenyls (PCB's)
- [ ] (764) Polynuclear Aromatic Hydrocarbons
- [ ] (762) SDWA Pesticides & Herbicides

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
Natural Gas	N.D.		
aromatic purgeables	ND+		
halogenated purgeables	ND+		
* DETECTION LIMIT *	5ppm	+ DETECTION LIMIT +	1ppb

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT

T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)

[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY 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 on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 6/27/86 & July 86. Analyst's signature: C S Deeney M Finney

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block.

Reviewers signature: Mary C. Eden

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

859
999

PRIORITY 2

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED 6 20 86	LAB NO. WC-2778	USER CODE ☐ 59300 ☐ 59600 ☒ OTHER: 82235	
Collection DATE 6 16 86	SITE INFORM-ATION ►	Sample location MONUMENT	
Collection TIME 1420		Collection site description OCD REPLACEMENT WELL	
Collected by — Person/Agency BAILEY/SEAY /OCD			

SEND FINAL REPORT TO ►

ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg, PO Box 2088
Santa Fe, NM 87504-2088

Attn: David Boyer

Phone: 827-5812

Station/ well code

Owner

SAMPLING CONDITIONS

☐ Bailed ☐ Dipped ☒ Pump ☐ Tap	Water level 18.45'	Discharge	Sample type
pH (00400)	Conductivity (Uncorrected) 1230 µmho	Water Temp. (00010) 25 °C	Conductivity at 25°C (00094) µmho

Field comments PUMPED 6 min. 6" PVC CSG NO HC SMELL

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:* ☐ A: 5ml conc. HNO_3 added ☐ A: 4ml fuming HNO_3 added

ANALYTICAL RESULTS from SAMPLES

NF

NF, NA	Units	Date analyzed	F, NA	Units	Date analyzed
☐ Conductivity (Corrected) 25°C (00095)	µmho		☒ Calcium (00915) 161.6	mg/l	6/23
☐ Total non-filterable residue (suspended) (00530)	mg/l		☒ Magnesium (00925) 21.0	mg/l	"
☐ Other:			☒ Sodium (00930) 69	mg/l	"
☐ Other:			☒ Potassium (00935) 3.12	mg/l	"
☐ Other:			☒ Bicarbonate (00440) 2602	mg/l	6/24
			☒ Chloride (00940) 244	mg/l	7/11
			☒ Sulfate (00945) 56.1	mg/l	7/15
			☒ Total filterable residue (dissolved) (70300) 1048	mg/l	6/30
			☒ Other: CO_3 0		6/24

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
	7 16 86	CJ

Laboratory remarks

FOR OCD USE -- Date Owner Notified _____ Phone or Letter? _____ Initals _____

104

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

852
999

PRIORITY 2

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED: 6 / 20 / 86	LAB NO. WC-2777	USER CODE ☐ 59300 ☐ 59600 ☒ OTHER: 82235	
Collection DATE: 6/16/86	SITE INFORMATION ►	Sample location: MONUMENT	
Collection TIME: 1420		Collection site description: OCD REPLACEMENT WELL	
Collected by — Person/Agency: BAILEY/SEAY /OCD			

SEND FINAL REPORT TO ►

ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg, PO Box 2088
Santa Fe, NM 87504-2088

Attn: David Boyer

Phone: 827-5812

Station/ well code

Owner

SAMPLING CONDITIONS

☐ Bailed ☐ Dipped ☒ Pump ☐ Tap	Water level: 18.45'	Discharge	Sample type
pH (00400)	Conductivity (Uncorrected): 1230 µmho	Water Temp. (00010): 25 °C	Conductivity at 25°C (00094): µmho

Field comments: PUMPED 6 MIN., 6" PVC CSG, NO HC SMELL

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:* ☐ A: 5ml conc. HNO_3 added ☐ A: 4ml fuming HNO_3 added

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)	2.20	mg/l	7/1
☒ Ammonia-N total (00610)	0.26	mg/l	6-29
☒ Total Kjeldahl-N ( )	0.56	mg/l	7-16
☐ 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
	7/16/86	CO

Laboratory remarks

FOR OCD USE -- Date Owner Notified _____ Phone or Letter? _____ Initals _____

(A)

Please send a copy to Hobbs EID

REPORT TO: Oscar Simpson
EID & Water Supply
Santa Fe
122E

LABORATORY Organic

LAB NUMBER ORG-123-A, B, C, D.

Priority One

SLD Users Code No. 52040

ALL CONTAINERS WHICH THIS FORM ACCOMPANIES ARE COLLECTIVELY REFERRED TO AS "SAMPLE".

CERTIFICATE OF FIELD PERSONNEL

Sample Type: Water ☑ Soil ☐ Other _____

Water Supply and/or Code No. Monument Contingency Well

City & County Monument Lea

Collected (date & time) 11:00AM 2-12-85 By (name) T. Burt

pH=_____; Conductivity=_____umho/cm at _____°C; Chlorine Residual=_____

Dissolved Oxygen=_____mg/l; Alkalinity=_____; Flow Rate= 45 GPM

Sampling Location, Methods & Remarks (i.e. odors etc.)
well #6 Monument

I certify that the statements in this block accurately reflect the results of my field analyses, observations and activities. Signed Roel Rutherford

I certify that I witnessed these field analyses, observations and activities and concur with the statements in this block. Signed Ron Smith

Method of Shipment to Laboratory Parallator.

THIS FORM ACCOMPANIES 2 septum vials with teflon-lined discs identified as:
specimen Monument; duplicate ✓; triplicate_____; blank(s)_____,
and_____ amber glass jug(s) with teflon-lined cap(s) identified as_____,
and_____ other container(s) (describe)_____ identified as_____.

Containers are marked as follows to indicate preservation (circle):

NP: No preservation; sample stored at room temperature (~20°C).

(P-ICE) Sample stored in an ice bath.

P-$Na_2O_3S_2$: Sample preserved with 3 mg $Na_2O_3S_2$/40 ml and stored at room temperature.

I will use last

CERTIFICATE(S) OF SAMPLE RECEIPT

I (we) certify that this sample was transferred from _____ to _____ at (location)_____ on (date & time)_____ and that the statements in this block are correct.

Disposition of Sample_____. Seal(s) Intact: Yes ☐ No ☐ .

Signature(s)_____ _____

I (we) certify that this sample was transferred from _____ to _____ at (location)_____ on (date & time)_____ and that the statements in this block are correct.

Disposition of Sample_____. Seal(s) Intact: Yes ☐ No ☐ .

Signature(s)_____

RECEIVED
MAR 04 1985
WATER SUPPLY
REGULATION SECTION

1

ANALYSES REQUESTED

LAB. No.: ORG- 123

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)
					POLYNUCLEAR AROMATIC HYDROCARBONS
					TRIAZINE HERBICIDES
		SPECIFIC COMPOUNDS			SPECIFIC COMPOUNDS

REMARKS: Please Run Gas chromatograph if time permits

ANALYTICAL RESULTS

COMPOUND	[PPB]	COMPOUND	[PPB]
aliphatic purgeables	none detected		
aromatic purgeables	none detected		
		* DETECTION LIMIT	1 ugm/l

REMARKS: No purgeables detected* by GC/MS nor purge & trap GC

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: 13 Feb 85. Analyst's signature: J. 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

State of New Mexico
HEALTH and ENVIRONMENT DEPARTMENT
SCIENTIFIC
LABORATORY DIVISION

CHEMICAL and PHYSICAL ANALYSES for WATER SAMPLES

PLEASE SEND COPY TO HOBBS EID

Date received	Lab No.	SLD user code No.
2/13/85	WC-599	52040

CONSULT SLD Lab Annex L for proper presentation of sample(s). TYPE or PRINT with Ball Point Pen

CHEMICAL ANALYSES: *Check individual items for analysis [Mark appropriate box(es)]*

INTERIM PRIMARY PARAMETER GROUP: ☐ 1 ☐ 2 ☐ 3

TYPE of CHEMICAL ANALYSIS: ☒ Complete Secondary ☐ Organic ☐ Radiological

Water Supply System Name	Water Supply System Code No.	City or Location	County	Check one:
Monument Contingency Well		Monument, NM	Lea	☐ TREATED WATER ☒ RAW WATER

Collection Date	Collection Time	Collection Point	Collector's remarks	Report to
2-12-85	11:00 AM	well #6 Contingency Wellhead		Oscar Simpson, EID, Water Supply

Collected By	Owner	Address
Roelf Ruffner		P. O. Box 968 Santa Fe, NM 87504-0968

TYPE of SYSTEM *(Check one)*: ☒ PRIVATE PUBLIC: ☐ Community ☐ Non-community

SOURCE: ☐ Spring ☐ Lake ☒ Well-Depth ☐ Drain ☐ Stream ☐ Pool ☐ Other *(specify)*

LAT. ° ' "

LONG ° ' "

CATIONS	mg/l	ANIONS	mg/l	PHYSICAL		HEAVY METALS	mg/l	PARAMETER		ORGANIC	mg/l
☒ 00930 Sodium (as Na)	578	☒ 00940 Chloride (as Cl)	2114	☐ 70300 Total Filterable Residue	mg/l	☐ 01000 Arsenic				☐ 39390 Endrin	
☒ 00935 Potassium (as K)	39.0	☐ 00950 Fluoride (as F)		☐ 38260 Foaming Agents (as Las)		☐ 01005 Barium				☐ 39732 Lindane	
☒ 00900 Tot.Hardness (as $CaCO_3$)	436	☐ 00620 Nitrate (as N)		☒ 00095 Conductance Micromhos 25°C	1076	☐ 01025 Cadmium				☐ 38270 Methoxychlor	
☒ 00915 Calcium (as Ca)	109	☒ 00430 Alkalinity (as $CaCO_3$)	211	☒ 00400 pH	7.03	☐ 01030 Chromium		RADIOLOGICAL pCi/l		☐ 39400 Toxaphene	
☒ 00925 Magnesium (as Mg)	199	☒ 00440 Bicarbonate (as HCO_3)	258.0	☒ 01330 Odor	—	☐ 01049 Lead		☐ 03501 Gross Beta	pCi/l	☐ 39730 2, 4-D	
☒ 01045 Iron-Total (as Fe)		☒ 00445 Carbonate (as CO_3)	0.0	☒ 00080 Color	mg/l 0.0	☐ 07180 Mercury		☐ 09501 Radium-226	pCi/l	☐ 39740 2, 4, 5-TP (Silvex)	
☒ 01056 Manganese (as Mn)		☒ 00945 Sulfate (as SO_4)	462	☐ 00070 Turbidity		☐ 01145 Selenium		☐ 11501 Radium-228	pCi/l		
						☐ 01075 Silver					

RECEIVED 1985 WATER SUPPLY REGULATION SECTION

R/W #234

LABORATORY REMARKS:

Reviewed by

Date reported 3/5/85

SLD 702 Form Revised 4/78

DISTRIBUTION: **White** - Water Supply Regulation, SF • **Canary** - WS System • **Pink** - EIA Regional Office • **Goldenrod** - SLD Lab

PLEASE SEND COPY TO HOBBS EID

State of New Mexico
HEALTH and ENVIRONMENT DEPARTMENT
SCIENTIFIC
LABORATORY DIVISION

CHEMICAL and PHYSICAL ANALYSES for WATER SAMPLES

Date received	Lab No.	SLD user code No.
2/13/85	WC-600	52040

CONSULT SLD Lab Annex L for proper presentation of sample(s). TYPE or PRINT with Ball Point Pen

CHEMICAL ANALYSES: *Check individual items for analysis [Mark appropriate box(es)]*

INTERIM PRIMARY PARAMETER GROUP: ☐ 1 ☒ 2 ☐ 3

TYPE of CHEMICAL ANALYSIS: ☐ Complete Secondary ☐ Organic ☐ Radiological

Water Supply System Name	Water Supply System Code No.	City or Location	County	Check one:
Monument Contingency Well		Monument	Lea	☐ TREATED WATER ☒ RAW WATER

Collection Date	Collection Time	Collection Point	Collector's remarks	Report to
2-12-85	11:00 AM	well #6 Contingency Wellhead		Oscar Simpson, EID, Water Supply

Collected By	Owner	Address
Roelf Ruffner		P. O. Box 968 Santa Fe, NM 87504-0968

TYPE of SYSTEM *(Check one)*: ☒ PRIVATE PUBLIC: ☐ Community ☐ Non-community

SOURCE: ☐ Spring ☐ Lake ☒ Well-Depth ☐ Drain ☐ Stream ☐ Pool ☐ Other *(specify)*

LAT. ° ' "
LONG ° ' "

CATIONS	mg/l	ANIONS	mg/l	PHYSICAL		HEAVY METALS	mg/l	PARAMETER		ORGANIC	mg/l
00930 Sodium (as Na)		00940 Chloride (as Cl)		70300 Total Filterable Residue	mg/l	01000 Arsenic				39390 Endrin	
00935 Potassium (as K)		00950 Fluoride (as F)		38260 Foaming Agents (as Las)		01005 Barium				39732 Lindane	
00900 Tot. Hardness (as $CaCO_3$)		X 00620 Nitrate (as N)	2.64	00095 Conductance Micromhos 25°C		01025 Cadmium				38270 Methoxychlor	
00915 Calcium (as Ca)		00430 Alkalinity (as $CaCO_3$)		00400 pH		01030 Chromium		RADIOLOGICAL	pCi/l	39400 Toxaphene	
00925 Magnesium (as Mg)		00440 Bicarbonate (as HCO_3)		01330 Odor		01049 Lead		01501 Gross Alpha		39730 2, 4-D	
01045 Iron-Total (as Fe)		00445 Carbonate (as CO_3)		00080 Color	mg/l	07180 Mercury		03501 Gross Beta	pCi/l	39740 2, 4, 5-TP (Silvex)	
01056 Manganese (as Mn)		00945 Sulfate (as SO_4)		00070 Turbidity		01145 Selenium		09501 Radium-226	pCi/l		
						01075 Silver		11501 Radium-228	pCi/l		

RECEIVED
MAR 13 1985
WATER SUPPLY
REGULATION SECTION

LABORATORY REMARKS:

Reviewed by: Dean

Date reported: 3/8/85

SLD 702 Form Revised 4/78

DISTRIBUTION: **White** - Water Supply Regulation, SF • **Canary** - WS System • **Pink** - EIA Regional Office • **Goldenrod** - SLD Lab

State of New Mexico
HEALTH and ENVIRONMENT DEPARTMENT
SCIENTIFIC
LABORATORY DIVISION

CHEMICAL and PHYSICAL ANALYSES for WATER SAMPLES

PLEASE SEND COPY TO HOBBS EID

Date received	Lab No.	SLD user code No.
2/13/85	HM-240	52040

CONSULT SLD Lab Annex L for proper presentation of sample(s). TYPE or PRINT with Ball Point Pen

CHEMICAL ANALYSES: *Check individual items for analysis [Mark appropriate box(es)]*

INTERIM PRIMARY PARAMETER GROUP ☐ 1 ☐ 2 ☐ 3

TYPE of CHEMICAL ANALYSIS ☐ Complete Secondary ☐ Organic ☐ Radiological

Water Supply System Name	Water Supply System Code No.	City or Location	County	Check one:
Monument Contingency Well		Monument	Lea	☐ TREATED WATER ☒ RAW WATER

Collection Date	Collection Time	Collection Point	Collector's remarks	Report to
2-12-85	11:00 AM	well #6 Contingency Wellhead		Oscar Simpson, EID, Water Supply

Collected By	Owner	Address
Roelf Ruffner		P. O. Box 968 Santa Fe, NM 87504-0968

TYPE of SYSTEM *(Check one)*
☒ PRIVATE PUBLIC: ☐ Community ☐ Non-community

SOURCE: ☐ Spring ☐ Lake ☒ Well-Depth ☐ Drain ☐ Stream ☐ Pool ☐ Other *(specify)*

LAT. ° ' "
LONG ° ' "

CATIONS	mg/l	ANIONS	mg/l	PHYSICAL		HEAVY METALS	mg/l	PARAMETER		ORGANIC	mg/l
00930 Sodium (as Na)		00940 Chloride (as Cl)		70300 Total Filterable Residue	mg/l	01000 Arsenic		☒ ICAP SCAN A/~~H_2SO_4~~/HNO_3		39390 Endrin	
00935 Potassium (as K)		00950 Fluoride (as F)		38260 Foaming Agents (as Las)		01005 Barium				39732 Lindane	
00900 Tot.Hardness (as $CaCO_3$)		00620 Nitrate (as N)		00095 Conductance Micromhos 25°C		01025 Cadmium				38270 Methoxychlor	
00915 Calcium (as Ca)		00430 Alkalinity (as $CaCO_3$)		00400 pH		01030 Chromium		RADIOLOGICAL 09501 Gross Alpha	pCi/l	39400 Toxaphene	
00925 Magnesium (as Mg)		00440 Bicarbonate (as HCO_3)		01330 Odor		01049 Lead		09502 Gross Beta	pCi/l	39730 2, 4-D	
01045 Iron-Total (as Fe)		00445 Carbonate (as CO_3)		00080 Color	mg/l	07180 Mercury		09501 Radium-226	pCi/l	39740 2, 4, 5-TP (Silvex)	
01056 Manganese (as Mn)		00945 Sulfate (as SO_4)		00070 Turbidity		01145 Selenium		11501 Radium-228	pCi/l		
						01075 Silver					

RECEIVED
APR 1 1985
WATER SUPPLY
REGULATION SECTION

LABORATORY REMARKS:
See attached ICAP Screen. MS

Reviewed by MS

Date reported 4/04/85

SLD 702 Form Revised 4/78

DISTRIBUTION: **White** - Water Supply Regulation, SF • **Canary** - WS System • **Pink** - EIA Regional Office • **Goldenrod** - SLD Lab

ICAP -SCREEN

Lab Number: HM 240

Date Submitted: 2/13/85

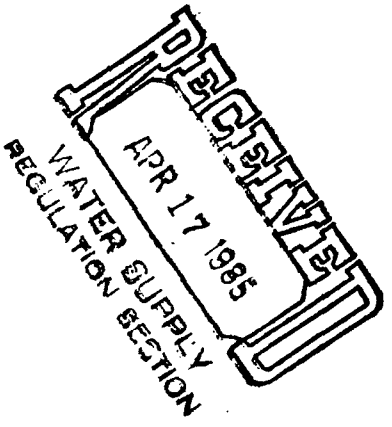
By: Rolf Ruffner

Sample Code: Well #6

Date Reported: 4/04/85

By: MJ

Determination	Concentration (µg/ml)
Aluminum	<.10
Barium	0.16
Beryllium	<.10
Boron	0.15
Cadmium	<.10
Calcium	140.
Chromium	<.10
Cobalt	<.10
Copper	<.10
Iron	<.10
Lead	<.10
Magnesium	21.
Manganese	<0.05
Molybdenum	<.10
Nickel	<.10
Silicon	23.
Silver	<.10
Strontium	1.3
Tin	<.10
Vanadium	<.10
Yttrium	<.10
Zinc	<.10



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

TONEY ANAYA
GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88240
(505) 393-6161

OIL CONSERVATION DIVISION
Test Well #6

This well is located 1,000 feet NW of spill site
Drill with 4 1/2" bit first to test then changed to 8 3/4" bit to complete

Footage

0' - 1'	Top Soil
1' - 3'	Hard Caliche
3' - 19'	Soft Caliche
19' - 24'	Sand
24' - 26'	Clay & Sand - wet
26' - 60'	Gravel & Sand - good water formation

Had red clay at 57' - TD is 60'
Ran 6" PVC w/40' of perfs
gravel packed with a Bentonile Cap - will cement later
will test water quantity later - 85 ppm Cl

12-6-84 - Pump test on #6

pump set @ 55 1/2 feet with a 3 hp pump
1 1/2" discharge: 45 gallons per minues in 2 1/2 hrs
field test was 200 ppm

84-1085-C

OIL CONSERVATION DIVISION

DAVID G. BOYER
Hydrogeologist

P.O. BOX 2088
LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
505-827-5812

LABORATORY SLD Priority 2

LAB NUMBER OR 1085, A, B..

SLD Users Code No. 59600

ALL CONTAINERS WHICH THIS FORM ACCOMPANIES ARE COLLECTIVELY REFERRED TO AS "SAMPLE".

CERTIFICATE OF FIELD PERSONNEL

Sample Type: Water ☒ Soil ☐ Other _____

Water Supply and/or Code No. Monument Community Loc Cty

City & County Mon. Well #20

Collected (date & time) ~~1984~~ 8411280925 By (name) BOYER

pH=_____; Conductivity=_____umho/cm at_____°C; Chlorine Residual=_____

Dissolved Oxygen=_____mg/l; Alkalinity=_____; Flow Rate=_____

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

Mon. Well #20 (Bailed - Heavy Oil on water)

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

I certify that I witnessed these field analyses, observations and activities and concur with the statements in this block. Signed _____

Method of Shipment to Laboratory _____.

THIS FORM ACCOMPANIES 2 septum vials with teflon-lined discs identified as:

specimen X; duplicate X; triplicate _____; blank(s) _____,

and _____ amber glass jug(s) with teflon-lined cap(s) identified as _____,

and _____ other container(s) (describe) _____ identified as _____.

Containers are marked as follows to indicate preservation (circle):

NP: No preservation; sample stored at room temperature (~20°C).

ICE: Sample stored in an ice bath.

P-$Na_2O_3S_2$: Sample preserved with 3 mg $Na_2O_3S_2$/40 ml and stored at room temperature.

CERTIFICATE(S) OF SAMPLE RECEIPT

I (we) certify that this sample was transferred from _____ to _____ at (location) _____ on (date & time) _____ and that the statements in this block are correct.

Disposition of Sample _____. Seal(s) Intact: Yes ☐ No ☐ .

Signature(s) _____ _____

I (we) certify that this sample was transferred from _____ to _____ at (location) _____ on (date & time) _____ and that the statements in this block are correct.

Disposition of Sample _____. Seal(s) Intact: Yes ☐ No ☐ .

Signature(s) _____ _____

RECEIVED
JAN 10 1985
OIL CONSERVATION DIVISION
SANTA FE

ANALYSES REQUESTED LAB. NO.

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

org-1085

QUALITATIVE	QUANTATIVE	PURGEABLE SCREEN	QUALITATIVE	QUANTATIVE	EXTRACTABLES SCREEN
		ALIPHATIC HYDROCARBON SCREEN			ALIPHATIC HYDROCARBONS
X	X	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)
					POLYNUCLEAR AROMATIC HYDROCARBONS
		SPECIFIC COMPOUNDS			SPECIFIC COMPOUNDS
		Benzenes, Xylenes, Toluene			

REMARKS:

ANALYTICAL RESULTS

COMPOUND	CONC-ENTRATION	COMPOUND	CONC-ENTRATION
Halogenated purgeables	none detected	n-propyl-benzene #	260 ug/m/l
benzene #⊛	6000 ug/m/l	1,3,5-tri-methyl-benzene #	310 "
Toluene #⊛	3400 "		
ethyl-benzene #⊛	600 "		
p-Xylene #⊛	250 "		
M-Xylene #	480 "	# DETECTION LIMIT	100 ug/m/l
O-Xylene #	400 "	⊛ DETECTION LIMIT	200 ug/m/l

REMARKS: Other Substituted aromatics also detected but not identified.

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes No . 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 6 Dec 84. Analysts signature J. Burney

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

DAVID G. BOYER
Hydrogeologist

P.O. BOX 2088
LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
505-827-5812

84-1082-C

12/6/84

LABORATORY SLD Priority 2

LAB NUMBER OR 1082 A, B.

SLD Users Code No. 59600

ALL CONTAINERS WHICH THIS FORM ACCOMPANIES ARE COLLECTIVELY REFERRED TO AS "SAMPLE".

CERTIFICATE OF FIELD PERSONNEL

Sample Type: Water ☒ Soil ☐ Other _____

Water Supply and/or Code No. Monument Community Well (City)

City & County Monument Mon. Well #12

Collected (date & time) 8411280825 By (name) BOYER

pH= _____; Conductivity= _____ umho/cm at _____ °C; Chlorine Residual= _____

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

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

Monument Mon. Well #12 (Bailed From well)

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

I certify that I witnessed these field analyses, observations and activities and concur with the statements in this block. Signed _____

Method of Shipment to Laboratory _____.

THIS FORM ACCOMPANIES 2 septum vials with teflon-lined discs identified as:

specimen X; duplicate X; triplicate _____; blank(s) _____,

and _____ amber glass jug(s) with teflon-lined cap(s) identified as _____,

and _____ other container(s) (describe) _____ identified as _____.

Containers are marked as follows to indicate preservation (circle):

NP: No preservation; sample stored at room temperature (~20°C).

P-ICE: Sample stored in an ice bath.

P-$Na_2O_3S_2$: Sample preserved with 3 mg $Na_2O_3S_2$/40 ml and stored at room temperature.

CERTIFICATE(S) OF SAMPLE RECEIPT

I (we) certify that this sample was transferred from _____ to _____ at (location) _____ on (date & time) _____ and that the statements in this block are correct.

Disposition of Sample _____. Seal(s) Intact: Yes ☐ No ☐ .

Signature(s) _____ _____

I (we) certify that this sample was transferred from _____ to _____ at (location) _____ on (date & time) _____ and that the statements in this block are correct.

Disposition of Sample _____. Seal(s) Intact: Yes ☐ No ☐ .

Signature(s) _____ _____

ANALYSES REQUESTED LAB. NO.

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

org-1082

QUALITATIVE	QUANTATIVE	PURGEABLE SCREEN	QUALITATIVE	QUANTATIVE	EXTRACTABLES SCREEN
		ALIPHATIC HYDROCARBON SCREEN			ALIPHATIC HYDROCARBONS
X	X	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)
					POLYNUCLEAR AROMATIC HYDROCARBONS
		SPECIFIC COMPOUNDS			SPECIFIC COMPOUNDS
		Benzenes, Xylenes, Toluene			

REMARKS:

ANALYTICAL RESULTS

COMPOUND	CONC-ENTRATION	COMPOUND	CONC-ENTRATION
halogenated purgeables	none detected	1,3,5-trimethyl-benzene	40 ug/m/l
benzene ⊛	4760 ug/m/l		
toluene	120 "		
ethyl-benzene	20 "		
p-xylene	140 "		
m-xylene	160 "		
o-xylene	140 "	* DETECTION LIMIT	10 ug/m/l

REMARKS: Other substituted aromatics also detected, but not identified. ⊛ Detection limit for benzene is 100 ug/m/l.

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes No . 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 6 Dec 84 . Analysts signature J. L. Tunney

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. Meyerhein

GREENWATER TECHNOLOGY LABORATORY
ANALYTICAL & CONSULTING SERVICES
Division of Oil Recovery Systems, Inc.
4 Mill St., Greenville, NH 03048
Tel: (603) 878-2500

Laboratory Test Results

6/25/86
Report No. 20-2050-9
Submitted to: Eddie Seay
Texas-New Mexico Pipeline Co.
P.O. Box 2528
Hobbs, N.M. 88240

Sample Identification:
The attached report covers water samples #27053-27054 taken by Seay using 40 ml septum-capped glass vials at site #20-2050, Hobbs, New Mexico.

Method:
Analysis was performed for purgeable aromatic priority pollutants and xylenes by purge and trap gas chromatography with flame ionization detection as per EPA Method 602. Quantification was performed on a very polar open tubular fused silica capillary column which fractionates aliphatics (up to C12) away from volatile aromatics. Qualitative confirmation was performed for all samples on a dissimilar column. Chromatographic conditions are referenced in GTL Method Code 103. Hexane and ortho-xylene are used as calibration standards for the aliphatic hydrocarbons and miscellaneous aromatics, respectively, if reported.

Minimum Detection Limit (MDL) at 5 times background is 0.5 ppb for all parameters. The level for reliable quantitation for the summed groups such as aliphatics is 20 ppb. Samples diluted in order to maintain the calibrated range are so indicated by a footnote giving the factor by which the MDL is raised.

Sampling and sample handling and preservation are specified by this laboratory to be as per EPA Method 602. Any irregularities are referenced in the attached quality assurance report.

Results:
Results are reported in ppb (ug/l).

Prepared by:
Eileen Foley
Analytical Program Manager

J.P./S.E.B.
Analysts

cc. Jim Goetz

GROUNDWATER TECHNOLOGY LABORATORY
ANALYTICAL & CONSULTING SERVICES
Division of Oil Recovery Systems, Inc.
4 Mill St., Greenville, NH 03048
Tel: (603) 878-2500

HYDROCARBONS IN WATER ug/1
REPORT NO. 20-2050-9

SAMPLE NO.	I.D.	C4-C12 ALIPHATIC HYDROCARBONS	MISC AROMATICS C8-C10	TOTAL
27053	NW	23	22	47
27054	MCW	2	ND	7

NOTES:

TOTAL = THE SUM OF THE TOTAL BTEX AND THE ABOVE PARAMETERS.

ND = BELOW DETECTION LIMIT
NW = NEW WELL
MCW = MAIN COMMUNITY WELL

GROUNDWATER TECHNOLOGY LABORATORY
ANALYTICAL & CONSULTING SERVICES
Division of Oil Recovery Systems, Inc.
4 Mill St., Greenville, NH 03048
Tel: (603) 878-2500

HYDROCARBONS IN WATER ug/L (ppb)
REPORT NO. 20-2050-9

Sample I.D.	DATE SAMPLED	DATE RUN	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES	TOTAL BTEX
27053 NW	6/17/86	6/21/86	2	ND	ND	ND	2
27054 NCW	6/16/86	6/20/86	5	ND	ND	ND	5

*NOTES:

ND = BELOW DETECTION LIMIT

TOTAL BTEX = THE SUM OF BENZENE, TOLUENE, ETHYL BENZENE, AND XYLENES, ROUNDED TO THREE SIGNIFICANT FIGURES.

GROUNDWATER TECHNOLOGY LABORATORY
ANALYTICAL & CONSULTING SERVICES
Division of Oil Recovery Systems, Inc.
4 Mill St., Greenville, NH 03048
Tel: (603) 878-2500

Quality Assurance Documentation

Statement of Sample Integrity:
The samples in this data set meet the Groundwater Technology Laboratory criteria for physical integrity as per GTL Method Code 103 throughout the sampling, handling and analytical process.

Exception: Sample 27054 contained bubbles.

Quality Assurance Specifications:
The data in this set conforms to the GTL Quality Assurance program and provisions specified in EPA Method 602 including daily calibration with freshly made standards, blanks before trace level samples, surrogate spikes, spikes in untested matrices, a minimum of 10% duplicates and a minimum of 6% reference samples traceable to the U.S. EPA.

Certification:
The data in this report have been checked for accuracy and completeness.

Respectfully Submitted,

Michael D. Webb

Michael D. Webb
Technical Director

TEXAS-NEW MEXICO PIPE LINE COMPANY

B L Lednicky
District Manager

PO Box 2528
Hobbs NM 88241
505 393 2135

February 7, 1985

Mr. Jerry Sexton
State of New Mexico
Oil Conservation Division
P.O.Box 1980
Hobbs, New Mexico 88241

Dear Jerry:

Re: Monument Water Wells

As per our discussion today attached is an analysis of the water samples taken on January 9, 1985. When Cliff Harper and myself visited with you and Eddie Seay about January 9 you requested that we obtain the samples on the wells drilled by the Oil Conservation Division.

I had previously given this information to Eddie Seay by telephone.

Yours very truly,

B L Lednicky

BLL:DDM
Attachment

EASYLINK MBX 5736521A001 15JAN85 12:18/12:35 EST
FROM: TLX 752858 ORS INC GRN UD
OIL RECOVERY SYSTEMS INC

HYDROCARBONS IN WATER ug/L (ppb)

Sample	I.D.	SAMPLED	RUN	BENZENE	TOLUENE	E.BENZ	T.XYLENES	ALIHYDRO	MISC.ARO	TOTAL
13536	BLANK	1/9/85	1/14/85	ND	ND	ND	ND	TRACE	ND	TRACE
13537	OCD 1	1/9/85	1/14/85	ND	ND	ND	ND	ND	ND	ND
13538	OCD 2	1/9/85	1/14/85	ND	ND	ND	ND	ND	ND	ND
13539	OCD 3	1/9/85	1/14/85	ND	ND	ND	ND	ND	ND	ND
13540	OCD 4	1/9/85	1/14/85	ND	ND	ND	ND	ND	ND	ND
13541	OCD 6	1/9/85	1/14/85	ND	ND	ND	ND	TRACE	ND	TRACE
13542	MW 12	1/9/85	1/14/85	3780	132	ND	95	1470	65	5550 *2
13543	MW 25	1/9/85	1/14/85	ND	ND	ND	ND	ND	ND	ND
13544	MW 26	1/9/85	1/14/85	ND	ND	ND	ND	ND	ND	ND
13545	MW 27	1/9/85	1/14/85	ND	ND	ND	ND	ND	ND	ND
13546	MW 28	1/9/85	1/14/85	ND	ND	ND	ND	ND	ND	ND

*NOTES:
ND = NONE DETECTED
TRACE = COMPOUND DETECTED BUT BELOW LEVEL FOR RELIABLE QUANTITATION.
2 = METHANE DETECTED AT 100-1000 PPB

REPORT NO. 20-2050-8

Preliminary

EASYLINK MBX 5733473A001 15JAN85 12:08/12:35 EST
FROM: TLX 752858 ORS INC GRN UD
OIL RECOVERY SYSTEMS INC
TO: 62725550

Laboratory Test Results

1/15/85
Report No. 20-2050-8
Submitted to: Cliff Harper
Groundwater Technology
5047 Clayton Rd.
Concord, CA 94519

The attached report covers water samples 13536-13546 taken by C. Harper at site 20-2050, Monument, New Mexico and analyzed by GC/FID Static Headspace Analysis for volatile hydrocarbons, analysts D.G. and J.P.

Method Detection Limits (MDL) listed are the levels above which quantitation is considered reliable: benzene and toluene 1 ppb, ethylbenzene 2 ppb, total xylenes 6 ppb. The level for reliable quantitation for total aliphatic hydrocarbons and miscellaneous aromatics is 20 ppb.

If noted on report, MDL is increased by a factor of 44 for dilutions made in order to maintain calibrated range. Precision for levels above 10 times MDL is 10%. Precision at MDL equals 30%. Hexane and ortho-xylene used as calibration standards for aliphatic hydrocarbons and miscellaneous aromatics, respectively.

Respectfully submitted,
Michael D. Webb
Technical Director

MMMM

GROUNDWATER TECHNOLOGY LABORATORY

ANALYTICAL & CONSULTING SERVICES
Division of Oil Recovery Systems, Inc.
4 Mill St., Greenville, NH 03048
Tel: (603) 878-2500

Consulting Offices:
Needham, MA — Redondo Beach, CA
Chadds Ford, PA — Concord, CA
Novi, MI

Laboratory Test Results

10/11/84
Report No. 20-2050-1
Submitted to: Cliff Harper
Groundwater Technology
5047 Clayton Rd.
Concord, CA 94519

The attached report covers water samples 12442-12443 taken by C. Harper at site 20-2050, Monument, New Mexico and analyzed by GC/FID Static Headspace Analysis for volatile hydrocarbons, analyst J.P.M.

Method Detection Limits (MDL) listed are the levels above which quantitation is considered reliable: benzene and toluene 1 ppb, ethylbenzene 2 ppb, total xylenes 6 ppb, total aliphatic hydrocarbons and miscellaneous aromatics 20 ppb.

If noted on report, MDL is increased by a factor of 44 for dilutions made in order to maintain calibrated range. Precision for levels above 10 times MDL is 10%. Precision at MDL equals 30%. Hexane and ortho-xylene used as calibration standards for aliphatic hydrocarbons and miscellaneous aromatics, respectively.

Respectfully submitted,

Michael D. Webb

Michael D. Webb
Technical Director

VOA Report No.
20-2050-1

HYDROCARBONS IN WATER µg/L (ppb)

SAMPLE NO.	I.D.	DATE SAMPLED	DATE RUN	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES	C4-C12 ALIPHATIC HYDROCARBONS	MISC. AROMATICS C7-C10	TOTAL
12442	SW	10/4/84	10/9/84	ND	ND	ND	ND	ND	ND	ND
12443	FDW	10/4/84	10/9/84	ND	ND	ND	ND	ND	ND	ND

*NOTES:

ND = NONE DETECTED
SW = SCHOOL WELL
FDW = FIRE DEPARTMENT WELL

GROUNDWATER TECHNOLOGY LABORATORY
#4 Mill Street, Greenville, New Hampshire 03048

VOA Report No.

20-2050-2

HYDROCARBONS IN WATER µg/L (ppb)

SAMPLE NO.	I.D.	DATE SAMPLED	DATE RUN	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES	C4-C12 ALIPHATIC HYDROCARBONS	MISC. AROMATICS C7-C10	TOTAL	
12509	MW1	10/11/84	10/20/84	ND	ND	ND	ND	TRACE	ND	TRACE	
12513	MW2	10/11/84	10/22/84	ND	ND	ND	ND	TRACE	ND	TRACE	*5
12511	MW3	10/11/84	10/22/84	ND	ND	ND	ND	29	ND	29	
12514	MW4	10/11/84	10/22/84	221	102	10	26	357	TRACE	716	
12512	MW5	10/11/84	10/22/84	ND	ND	ND	ND	ND	ND	ND	
12515	MW6	10/11/84	10/22/84	ND	ND	ND	ND	TRACE	ND	TRACE	
12508	MW7	10/11/84	10/20/84	16600	10400	669	1710	3520	1570	34500	*1,4
12510	MW8	10/11/84	10/20/84	2	ND	ND	ND	TRACE	ND	2	

*NOTES:

ND = NONE DETECTED
TRACE = COMPOUND(S) DETECTED BUT BELOW LEVEL FOR RELIABLE QUANTITATION

1 = METHANE DETECTED AT 10-100 PPB.
2 = METHANE DETECTED AT 100-1000 PPB.
4 = SAMPLE DILUTED; MDL TIMES 44
5 = UNCATEGORIZED COMPOUND(S) PRESENT.

GROUNDWATER TECHNOLOGY LABORATORY
84 Mill Street, Greenville, New Hampshire 03048

VOA Report No.
20-2050-3

HYDROCARBONS IN WATER µg/L (ppb)

SAMPLE NO.	I.D.	DATE SAMPLED	DATE RUN	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES	C4-C12 ALIPHATIC HYDROCARBONS	MISC. AROMATICS C7-C10	TOTAL
12533	W14	10/16/84	10/18/84	15800	9710	1870	1480	6410	878	36200 *5
12534	W15	10/16/84	10/18/84	17300	11100	1970	1960	6370	1160	40000 *5
12535	W2	10/16/84	10/18/84	TRACE	2	ND	ND	TRACE	ND	2 *5
12536	W8	10/16/84	10/18/84	ND	ND	ND	ND	ND	ND	ND
12537	W.W.	10/16/84	10/18/84	ND	ND	ND	ND	ND	ND	ND
12538	BLANK	10/16/84	10/18/84	ND	ND	ND	ND	ND	ND	ND

*NOTES:

ND = NONE DETECTED
TRACE = COMPOUND(S) DETECTED BUT BELOW LEVEL FOR RELIABLE QUANTITATION
W.W. = WATER WELL

5 = UNCATEGORIZED COMPOUND(S) PRESENT.

GROUNDWATER TECHNOLOGY LABORATORY
14 Mill Street, Greenville, New Hampshire 03048

VOA Report No.
20-2050-4

HYDROCARBONS IN WATER µg/L (ppb)

SAMPLE NO.	I.D.	DATE SAMPLED	DATE RUN	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES	C4-C12 ALIPHATIC HYDROCARBONS	MISC. AROMATICS C7-C10	TOTAL
12551	MW3	10/17/84	10/24/84	ND	ND	ND	ND	TRACE	ND	TRACE *1
12549	MW4	10/17/84	10/24/84	ND	ND	ND	ND	39	ND	39
12554	MW5	10/17/84	10/24/84	ND	ND	ND	ND	TRACE	ND	TRACE
12548	MW6	10/17/84	10/23/84	ND	ND	ND	ND	81	83	164
12550	MW9	10/17/84	10/24/84	ND	ND	ND	ND	131	64	195
12553	MW13	10/17/84	10/24/84	ND	TRACE	ND	ND	ND	ND	TRACE
12552	MW19	10/17/84	10/24/84	ND	ND	ND	ND	ND	ND	ND

*NOTES:

ND = NONE DETECTED
TRACE = COMPOUND(S) DETECTED BUT BELOW LEVEL FOR RELIABLE QUANTITATION

1 = METHANE DETECTED AT 10-100 PPB.

GROUNDWATER TECHNOLOGY LABORATORY
44 Mill Street, Greenville, New Hampshire 03048

VOA Report No.

20-2050-5

HYDROCARBONS IN WATER µg/L (ppb)

SAMPLE NO.	I.D.	DATE SAMPLED	DATE RUN	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES	C4-C12 ALIPHATIC HYDROCARBONS	MISC. AROMATICS C7-C10	TOTAL	
12627	MW3	10/25/84	10/31/84	ND	ND	ND	ND	180	ND	180	*1
12628	MW4	10/25/84	10/31/84	1020	82	ND	53	2290	36	3480	*7
12629	MW5	10/25/84	10/31/84	ND	ND	ND	ND	TRACE	ND	TRACE	*6
12630	MW6	10/25/84	10/31/84	ND	ND	ND	ND	TRACE	ND	TRACE	
12631	MW8	10/25/84	10/31/84	ND	ND	ND	ND	ND	ND	ND	
12632	MW9	10/25/84	10/31/84	6450	3320	296	430	258	3760	14500	
12633	MW13	10/25/84	10/31/84	ND	ND	ND	ND	ND	ND	ND	
12634	MW15	10/25/84	10/31/84	19100	12100	2020	1690	10800	1940	46500	
12635	MW17	10/25/84	10/31/84	1520	79	ND	148	866	154	2770	*2

*NOTES:

ND = NONE DETECTED
TRACE = COMPOUND(S) DETECTED BUT BELOW LEVEL FOR RELIABLE QUANTITATION

1 = METHANE DETECTED AT 10-100 PPB.
2 = METHANE DETECTED AT 100-1000 PPB.
6 = UNCATEGORIZED COMPOUND PRESENT; POSSIBLY NOT GASOLINE RELATED.
7 = TOTAL ALIPHATICS INCLUDES METHANE.

SAMPLES OF MW12, 18, & 19 WERE BROKEN VIA SHIPPING.

GROUNDWATER TECHNOLOGY LABORATORY
44 Mill Street, Greenville, New Hampshire 03048

20-20-6

HYDROCARBONS IN WATER µg/L (ppb)

SAMPLE NO.	I.D.	DATE SAMPLED	DATE RUN	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES	C4-C12 ALIPHATIC HYDROCARBONS	MISC. AROMATICS C7-C10	TOTAL
12809	MWW	11/6/84	11/12/84	ND	ND	ND	ND	ND	ND	ND
12810	MWWS	11/6/84	11/12/84	ND	ND	ND	ND	ND	ND	ND
12811	MW 28	11/6/84	11/12/84	ND	ND	ND	ND	ND	ND	ND
12812	BLNK	11/6/84	11/12/84	ND	ND	ND	ND	ND	ND	ND

*NOTES:

ND = NONE DETECTED
MWW = MUNI WATER WELL
MWWS = MUNI WATER WELL STANDBY
BLNK = BLANK

Oil Recovery Systems

GROUNDWATER TECHNOLOGY LABORATORY
4 MILL STREET, GREENVILLE, NEW HAMPSHIRE 03048

Table . Monument Water System Contd. (Midline & Schoolhouse Wells 9/84 to Present), Analyses collected by EID and analyzed by SLS, all units ppm.

Sampling Station	Midline		East Schoolhouse Well		West Schoolhouse Well
Sampling Date	9/18/84	9/19/84	9/18/84	11/8/84	11/8/84
Calcium	118.		123.		
Magnesium	18.2		22.6		
Sodium	57.5		57.5		
Potassium	3.12		3.51		
Bicarbonate	259.1		253.3		
Sulfate	60.8		60.0		
Chloride	148.1		161.7		
Nitrate-N					
Ammonia-N					
Aluminum					
Arsenic					
Barium					
Beryllium					
Boron					
Cadmium					
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Manganese					
Mercury					
Molybdenum					
Nickel					
Selenium					
Silicon					
Silver					
Strontium					
Tin					
Vanadium					
Yttrium					
Zinc					
TDS	650.		760.		
pH					
COD					
TOC					
Aromatic Purgeables	ND	ND	ND	ND	ND
Halogenated Purgeables	0.003 $CHBr_3$	0.003 $CHCl_3$	ND	ND →	ND →
		0.001 $CHCl_2Br$			

Monument Water System. Samples were collected by [redacted] and analyzed by S.D. Offutt. All values are mg/L unless otherwise indicated.

Sampling Station	General Store	Well #1			
SAMPLING DATE	4/24/84	9/17/84	9/18/84	9/24/84	10/5/84
Calcium	116./130		130./		
Magnesium	11.2/17.		18.2/		
Sodium	52.9		69.		
Potassium	3.12		7.02		
Bicarbonate	263.1?		265.8		
Sulfate	73.5		63.2		
Chloride	126.9		181.8		
Bromide	0.0088		--		
Nitrate-N	2.36		--		
Ammonia-N	<0.01		--		
Aluminum	<0.01				
Arsenic	--				
Barium	0.14				
Beryllium	<0.01				
Boron	0.13				
Cadmium	<0.01				
Chromium	<0.01				
Cobalt	<0.01				
Copper	<0.01				
Iron	<0.01				
Lead	<0.01				
Manganese	<0.01				
Mercury	--				
Molybdenum	<0.01				
Nickel	<0.01				
Selenium	--				
Silicon	20.				
Silver	<0.01				
Strontium	1.0				
Tin	<0.01				
Vanadium	<0.01				
Yttrium	<0.01				
Zinc	0.11				
TDS	334?		763.		
pH					
COD					
TOC	1.25				
Benzene	ND	4.1	7.2	4.3	2.5
Toluene	ND	3.9	6.7	2.8	3.1
Ethylbenzene	ND	0.62	2.0	0.34	0.73
pXylene	ND	0.16	0.2	<0.3	0.16
mXylene	ND	0.48	0.56	<0.3	0.46
oXylene	ND	0.3	0.35	<0.3	0.39
$CHCl_3$	0.003	--	--	--	--
Nat. Gas	--	--	0.55 uL/L	--	--

LISTING OF WCTO1 BY LOCATION

STATE ENGINEER CHEMICAL QUALITY OF WATER

LOCATION	DATE COLLECTED	CHLORIDE PPM	CONDUCT M-MHOS	TEMP DEG	WBF		BASIN FILE	REFERENCE FILE	USE	PT CLTN	CLTR
19S 36E 32 113112	11/20/29	79		64F	QAL	L			IRR	DP	USG
CARD COUNT=00002			01897								
19S 36E 35 441	01/25/68	144600	186000			L			OIL	DISPIT	SEO
CARD COUNT=00001			01898								
19S 37E 01 21341	09/08/65	100	1285	67F	TOG	L	01842		REC	DP	SEO
19S 37E 01 21341	09/08/71	97	913	66F	TOG	L	01842		REC	DP	SEO
19S 37E 01 21341	07/15/77	44	676	66F	TOG	L	01842		REC	DP	SEO
CARD COUNT=00003			01901								
19S 37E 04 111432	07/24/64	107			TOG	L	02490		DOM	YT	OCC
CARD COUNT=00001			01902								
19S 37E 04 111444	09/19/29	32		62F	TOG	L			DOM		USG
CARD COUNT=00001			01903								
19S 37E 04 11144A	10/19/79	34	605	66F	TOG	L			DOM	YT	SEO
CARD COUNT=00001			01904								
19S 37E 04 11333	07/22/64	350			TOG	L	01611		IRR	DP	OCC
19S 37E 04 11333	09/08/65	35	670	68F	TOG	L	01611		IRR	DP	SEO
19S 37E 04 11333	09/22/71	91	907	66F	TOG	L	01611		IRR	DP	SEO
19S 37E 04 11333	07/13/77	30	630		TOG	L	01611		IRR	DP	SEO
CARD COUNT=00004			01908								
19S 37E 04 41112	10/17/79	34	607	66F	TOG	L	04466		IRR	DP	SEO
CARD COUNT=00001			01909								
19S 37E 04 41200	11/21/60	195			TOG	L			STK	DP	OCC
CARD COUNT=00001			01910								
19S 37E 04 412231	11/22/60	37			TOG	L	04917		DOM	YT	OCC
19S 37E 04 412231	12/21/76	80	1114	63F	TOG	L	04917		STK	DP	SEO
19S 37E 04 412231	06/17/77	88	1161		TOG	L	04917		DOM	YT	SEO
19S 37E 04 412231	10/19/79	48	746	65F	TOG	L	04917		STK	DP	SEO
CARD COUNT=00004			01914								
19S 37E 08 31111	10/24/79	48	731	65F	TOG	L			STK	DP	SEO
CARD COUNT=00001			01915								
19S 37E 16 23310	10/19/79	44	680		TOG	L			STK	DP	SEO

```
19S 37E 04 111444   09/19/29    32          62F  TOG    L                 DOM        US
                                    CARD COUNT=00001   01903

19S 37E 04 11144A   10/19/79    34      605  66F  TOG    L                 DOM  YT    SE
                                    CARD COUNT=00001   01904

19S 37E 04 11333    07/22/64   350                TOG    L 01611           IRR  DP    OC
19S 37E 04 11333    09/08/65    35      670  68F  TOG    L 01611           IRR  DP    SE
19S 37E 04 11333    09/22/71    91      907  66F  TOG    L 01611           IRR  DP    SE
19S 37E 04 11333    07/13/77    30      630       TOG    L 01611           IRR  DP    SE
                                    CARD COUNT=00004   01908

19S 37E 04 41112    10/17/79    34      607  66F  TOG    L 04466           IRR  DP    SE
                                    CARD COUNT=00001   01909

19S 37E 04 41200    11/21/60   195                TOG    L                 STK  DP    OC
                                    CARD COUNT=00001   01910

19S 37E 04 412231   11/22/60    37                TOG    L 04917           DOM  YT    OC
19S 37E 04 412231   12/21/76    80     1114  63F  TOG    L 04917           STK  DP    SE
19S 37E 04 412231   06/17/77    88     1161       TOG    L 04917           DOM  YT    SE
19S 37E 04 412231   10/19/79    48      746  65F  TOG    L 04917           STK  DP    SE
                                    CARD COUNT=00004   01914

19S 37E 08 31111    10/24/79    48      731  65F  TOG    L                 STK  DP    SE
                                    CARD COUNT=00001   01915

19S 37E 16 23310    10/19/79    44      680       TOG    L                 STK  DP    SE
                                    CARD COUNT=00001   01916

19S 37E 17 43143    10/19/79    46      688  66F  TOG    L                 STK  DP    SE
                                    CARD COUNT=00001   01917

19S 37E 19 113211   10/24/79    62      728  69F  TOG    L 04313           STK  DP    SE
                                    CARD COUNT=00001   01918

19S 37E 20 23122    10/24/79   116      968  68F  TOG    L                 STK  DP    SE
```

STATE ENGINEER CHEMICAL QUALITY OF WATER

LISTING OF WCT01 BY LOCATION

LOCATION	DATE COLLECTED	CHLORIDE PPM	CONDUCT M-MHOS	TEMP DEG	WBF		BASIN FILE	REFERENCE FILE	USE	PT CLTN	CLTR
19S 37E 23 334133	11/07/79	86	1027	62F	TOG	L			STK	DP	SEO
			CARD COUNT=00002		01920						
19S 37E 28 42422	11/29/79	58	733		TOG	L	03937		STK	DP	SEO
			CARD COUNT=00001		01921						
19S 37E 29 43143	07/15/54	91	865	75F	QAL	L	01252	L 05314	MTU	YT	USG
19S 37E 29 43143	09/09/58	73	678		QAL	L	01252	L 05314	MTU	YT	SEO
			CARD COUNT=00002		01923						
19S 37E 30 444123	11/29/79	88	947		QAL	L			DOM	YT	SEO
			CARD COUNT=00001		01924						
19S 37E 32 31440	10/25/79	224	1582	78F	QAL	L			DOM	DP	SEO
			CARD COUNT=00001		01925						
19S 37E 32 411343	10/25/79	260	1601		TOG	L	07626		DOM	YT	SEO
			CARD COUNT=00001		01926						
19S 37E 32 41322	10/25/79	226	1427		TOG	L			IRR	DP	SEO
			CARD COUNT=00001		01927						
19S 37E 34 112412	11/29/79	60	731		TOG	L	00743 S4		DOM	YT	SEO
			CARD COUNT=00001		01928						
19S 37E 34 334322	10/11/79	94	1038	67F	TOG	L	00744 S2	L 00744	IRR	DP	SEO
			CARD COUNT=00001		01929						
19S 38E 01 314242	10/17/79	240	1866		TOG	L	00640		IRR	SPRKLR	SEO
			CARD COUNT=00001		01930						
19S 38E 02 13321	05/29/53	80	849		TOG	L	00946		MUN		USG
			CARD COUNT=00001		01931						
19S 38E 03 13133	08/14/57	80			TOG	L				YT	SEO
			CARD COUNT=00001		01932						
19S 38E 04 112243	08/14/57	88			TOG	L			DOM	DP	SEO