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REPORTS

DATE:

1985

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

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED: 1/21/85 | LAB NO.: [illegible]124 | USER CODE: ☐ 59300 ☐ 59600 ☒ OTHER: 82235

Collection DATE: 12/01/11 | Collection TIME: 1225 | Collected by, — Person/Agency: Powell/Rice OCD

SITE INFORMATION ►

Sample location: Hare #1, Bloomfield

Collection site description: Site of unlined oil/waste pit at ~~in~~ KAF ~~compressor~~ in residential area

T29N, R11W, Sec 18, 44

SEND FINAL REPORT TO ►

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

Attn: David Boyer

Station/ well code:

Owner: Mitchell Const Co.

SAMPLING CONDITIONS

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

Field comments:

SAMPLE FIELD TREATMENT — *Check proper boxes*

No. of samples submitted: 1

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

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

ANALYTICAL RESULTS from SAMPLES

NF, NA		Units	Date analyzed
☒ Conductivity (Corrected) 25°C (00095)	19,314	µmho	
☐ Total non-filterable residue (suspended) (00530)		mg/l	
☒ Other: pH	7.6		
☐ Other:			
☐ Other:			

F, NA NF		Units	Date analyzed
☒ Calcium (00915)	36.9	mg/l	1/31
☒ Magnesium (00925)	15.5	mg/l	2/5
☒ Sodium (00930)	4432	mg/l	1/21
☒ Potassium (00935)	10.1	mg/l	1/21
☒ Bicarbonate (00440)	213.2	mg/l	3/12
☒ Chloride (00940)	7540.6	mg/l	3/1
☒ Sulfate (00945)	< 0.5	mg/l	2/11
☒ Total filterable residue (dissolved) (70300)		mg/l	
☒ Other: CO_3	0		3/12
☒	1.47	mg/L	1/28

NF, A-H_2SO_4 NA			
☐ 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 ( )	11.9	mg/l	5/1
☐ 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: 5/13/85 | Reviewed by

Laboratory remarks:

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

From OCD files: Hare #1, 29N11W14P
Pool: Bloomfield-Farmington (OIL), in special area
1984 wtr production 14 bbls (maybe error on C-115 - no oil rptd for one month - all wtr) RMB 3/14/85

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

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED 1/21/85 | LAB NO. 1P 239 | USER CODE ☐ 59300 ☐ 59600 ☒ OTHER: 82235

Collection DATE 85/01/11
Collection TIME 1225
Collected by — Person/Agency: Boyer/Baca OCD

SITE INFORMATION ►
Sample location: Hare #1, Bloomfield
Collection site description: Site of unlined oil/water pit at ~~in~~ KOA ~~...~~ Campground in residential area T29N, R11W, Sec 14, 44

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

Station/well code:
Owner: Mitchell Const Co

SAMPLING CONDITIONS

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

Field comments

SAMPLE FIELD TREATMENT — *Check proper boxes*

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

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

ANALYTICAL RESULTS from SAMPLES

NF, NA		Units	Date analyzed
☒ Conductivity (Corrected) 25°C (00095)	19,314	µmho	
☐ Total non-filterable residue (suspended) (00530)		mg/l	
☒ Other: pH	7.6		
☐ Other:			
☐ Other:			

~~F,~~ NA NF		Units	Date analyzed
☒ Calcium (00915)	369	mg/l	1/31
☒ Magnesium (00925)	15.8	mg/l	2/5
☒ Sodium (00930)	4432	mg/l	1/21
☒ Potassium (00935)	10.1	mg/l	1/21
☒ Bicarbonate (00440)		mg/l	
☒ Chloride (00940)	7540.6	mg/l	3/1
☒ Sulfate (00945)	< 0.5	mg/l	2/11
☒ Total filterable residue (dissolved) (70300)	13,092	mg/l	2/25
☒ Other: CO_3			
☒ F	1.47	mg/L	1/28

NF, ~~A-H₂SO₄~~ NA		Units	Date analyzed
☐ Nitrate-N⁺, Nitrate-N total (00630)		mg/l	
☐ Ammonia-N total (00610)		mg/l	
☐ Total Kjeldahl-N ( )		mg/l	
☐ Chemical oxygen demand (00340)		mg/l	
☒ Total organic carbon ( )		mg/l	
☐ Other:			
☐ Other:			

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

Analyst	Date Reported	Reviewed by

Laboratory remarks

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

Heavy Metal

~~GENERAL WATER CHEMISTRY and NITROGEN~~ ANALYSIS

DATE RECEIVED 1/2-1/85 LAB NO. H11-01

USER CODE ☐ 59300 ☐ 59600 ☒ OTHER: 82235

Collection DATE: 85/01/11

Collection TIME: 1325

Collected by — Person/Agency: Boyer/Meek OCD

SITE INFORMATION ►

Sample location: Hare #1, Bloomfield

Collection site description: Site of unlined oil/water pit at KOA campground in residential area

T29N, R11W, Sec 14, 44

Station/well code:

Owner: Mitchell Oil Co.

SEND FINAL REPORT TO ►

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

Attn: David Boyer

SAMPLING CONDITIONS

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

Field comments

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 HNO_3

ANALYTICAL RESULTS from SAMPLES

NF, ~~NA~~ A HNO_3 — Units — Date analyzed

- ☐ Conductivity (Corrected) 25°C (00095) ____ µmho
- ☐ Total non-filterable residue (suspended) (00530) ____ mg/l
- ☒ Other: ICAP SCAN
- ☒ Other: As 0.104
- ☒ Other: Se 0.045

F, NA — Units — Date analyzed

- ☐ Calcium (00915) ____ mg/l
- ☐ Magnesium (00925) ____ mg/l
- ☐ Sodium (00930) ____ mg/l
- ☐ Potassium (00935) ____ mg/l
- ☐ Bicarbonate (00440) ____ mg/l
- ☐ Chloride (00940) ____ mg/l
- ☐ Sulfate (00945) ____ mg/l
- ☐ Total filterable residue (dissolved) (70300) ____ mg/l
- ☐ Other:

NF, A-H_2SO_4

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

F, A-H_2SO_4

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

Analyst | Date Reported 02/18/85 | Reviewed by MJ

Laboratory remarks

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

ICAP SCREEN

Lab Number: HM #77

Date Submitted: 1/25/85

By: Boyer/Baca

Sample Code: Mitchell Const. Co.

Date Reported: 2/18/85

By: MP

Determination	Concentration (µg/ml)
Aluminum	<0.10
Barium	4.0
Beryllium	<0.10
Boron	0.42
Cadmium	<0.10
Calcium	320.
Chromium	<0.10
Cobalt	<0.10
Copper	<0.10
Iron	3.2
Lead	<0.10
Magnesium	17.
Manganese	0.59
Molybdenum	<0.10
Nickel	<0.10
Silicon	2.8
Silver	<0.10
Strontium	9.5
Tin	<0.10
Vanadium	<0.10
Yttrium	<0.10
Zinc	<0.10

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1/21/25

REPORT TO:

David G. Boyer
New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87501

LABORATORY

LAB NUMBER OR 71A, B.

SLD Users Code No. 82235.

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. Mitchel Const. Co, Hare #1

City & County Bloomfield San Juan City

Collected (date & time) 850111 1225 By (name) Boyer / Rock

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

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

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

Sample from unlined pit at KOA campground

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). (see Note)
P-ICE: Sample stored in an ice bath. Refrigerated
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- 7

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

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

REMARKS:

ANALYTICAL RESULTS

COMPOUND	[PPB]	COMPOUND	[PPB]
Benzene	10200		
Toluene	13000		
Ethylbenzene	none detected*		
p-Xylene	760		
m-xylene	2300		
o-xylene	940		
		* DETECTION LIMIT	10

REMARKS: Other unsaturated hydrocarbons also 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: 12/16-1/6/85. 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]