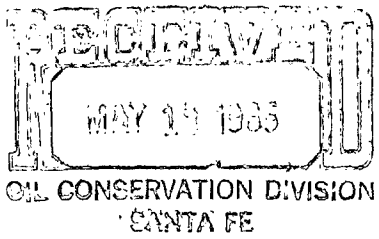
1R - 250

REPORTS

DATE:

1985

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO



WATER ANALYSIS

Well Ownership: Tapp Ranch (OCD) Well No. TA #1

Land Status: State _____ Federal _____ Fee _____

Well Location: Unit Letter _____ Section 36 Township 9 Range 33

top water - 65'

Type Well: observation well Depth 79 feet

Well Use: _____

Sample Number: _____ Date Taken: 4-30-85

Taken By: Ron Castleberry

Specific Conductance: _____ m/ɾ

Total Dissolved Solids: _____ PPM.

Chlorides: 2023.5 PPM.

Sulfates: _____ PPM.

Ortho-phosphates: _____ V. LOW _____ LO _____ MED _____ HI

Sulfides: _____ NONE _____ LO _____ MED _____ HI

_____ : _____

Date Analyzed: 5-8-85 By: Eddie W Seay
OIL CONSERVATION DIVISION
Eddie Seay

REMARKS: 10 ml 355 x 5.7 = 2023.5 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

Well Ownership: Tapp Ranch (OCD) Well No. TA #1

Land Status: State ____ Federal ____ Fee ____

Well Location: Unit Letter ____, Section 36, T 9 S, R 33 E

top H_2O 59'

Type Well: observation well Depth 79 feet.

Well Use: ____

Sample Number: ____ Date Taken: 1-17-85

Taken By: Ron Castleberry

Specific Conductance: ____ m/ℓ

Total dissolved Solids: ____ PPM.

Chlorides: 1988 PPM.

Sulfates: ____ PPM.

Ortho-phosphates: ☐ V.Low ☐ Low ☐ Medium ☐ High

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

____ : ____

Date Analyzed: 1-21-85 By: Eddie W Seay
Oil Conservation Division
Eddie Seay

REMARKS: 10 ml 355 x 5.6 = 1988 ppm Cl

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

RECEIVED
FEB - 8 1984
OIL CONSERVATION DIVISION
SANTA FE

WATER ANALYSIS

WELL OWNERSHIP: Tapp Ranch (OCD) WELL NO. 1

LAND STATUS: State _____ Federal _____ Fee _____

WELL LOCATION: Unit Letter _____, Section 36, T 9 S, R 33 E

Top H_2O 56 ft.

Type well: observation well Depth 66 feet

Well Use: _____

Sample Number: _____ Date Taken: 1-26-84

Taken By: Ron Castleberry

Specific Conductance: _____ m/~

Total Dissolved Solids _____ PPM

Chlorides: 2840 PPM

Sulfates: _____ PPM

Water Level: _____ from surface

Date Analyzed: 1-27-84 By: Eddie W Sean
Oil Conservation Division

REMARKS: 1 ml 3550 x .8 = 2840

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

Well Ownership: Tapp Ranch (OCD) Well No. TA #1

Land Status: State ____ Federal ____ Fee ____

Well Location: Unit Letter ____, Section 36, T 9 S, R 33 E

Top H_2o 58 ft.

Type Well: observation well Depth 78 feet.

Well Use: ____

Sample Number: 1 Date Taken: 6-8-83

Taken By: Ron Castleberry

Specific Conductance: ____ m/s

Total dissolved Solids: ____ PPM.

Chlorides: 4032.8 PPM.

Sulfates: ____ PPM.

Ortho-phosphates: ☐ V.Low ☐ Low ☐ Medium ☐ High

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

____ : ____

Date Analyzed: 6-20-83 By: Eddie W Seay
Oil Conservation Division

REMARKS: 25 ml 142 x 28.4 =4032.8 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Tapp Ranch (OCD) WELL NO. TA #1

LAND STATUS: State _____ Federal _____ Fee _____

WELL LOCATION: Unit Letter _____, Section 36, T 9 S, R 33 E

Type well: observation well Depth 75 feet

Well Use: _____

Sample Number: 1 Date Taken: 9-9-82

Taken By: Eddie Seay

Specific Conductance: _____ m/

Total Dissolved Solids _____ PPM

Chlorides: 2840 PPM

Sulfates: _____ PPM

Water Level: .58 from surface

Date Analyzed: 11-18-82 By: Eddie W Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x .8 = 2840 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Tapp Ranch (OCD) WELL NO. TA #1

LAND STATUS: State _____ Federal _____ Fee _____

WELL LOCATION: Unit Letter _____, Section 36, T 9 S, R 33 E

Type well: observation well Depth 75 feet

Well Use: _____

Sample Number: _____ Date Taken: 6-9-82

Taken By: Eddie Seay

Specific Conductance: _____ m/~

Total Dissolved Solids _____ PPM

Chlorides: 3408 PPM

Sulfates: _____ PPM

Water Level: 58 from surface

Date Analyzed: 6-28-82 By: Eddie W Seay
Oil Conservation Division

REMARKS: 10 ml 355 x 9.6 = 3408 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Tapp Ranch (OCD) WELL NO. TA #1

LAND STATUS: State _____ Federal _____ Fee _____

WELL LOCATION: Unit Letter _____, Section 36, T 9 S, R 33 E

Type well: Observation well Depth 75 feet

Well Use: _____

Sample Number: _____ Date Taken: 2-11-82

Taken By: Eddie Seay

Specific Conductance: _____ m/~

Total Dissolved Solids _____ PPM

Chlorides: 3337 PPM

Sulfates: _____ PPM

Water Level: 58 from surface

Date Analyzed: 3-11-82 By: Eddie W Seay
Oil Conservation Division

REMARKS: 10 ml 355 x 9.4=3337 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Tapp Ranch WELL NO. TA #1

LAND STATUS: State _____ Federal _____ Fee _____

WELL LOCATION: Unit Letter _____, Section 36, T 9 S, R 33 E

Type well: Observation Well Depth 75 feet

Well Use: _____

Sample Number: 1 Date Taken: 9-28-81

Taken By: Eddie W. Seay

Specific Conductance: _____ m/~

Total Dissolved Solids _____ PPM

Chlorides: 3550 PPM

Sulfates: _____ PPM

Water Level: 58ft from surface

Date Analyzed: 10-27-81 By: Eddie W Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 1.0 = 3550 ppm

Supervisor, District I

RECEIVED
NOV 05 1981
OIL CONSERVATION DIVISION
SANTA FE

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

Well Ownership: TAPP RANCH (OCD) Well No. TA #1

Land Status: State ____ Federal ____ Fee ____

Well Location: Unit Letter ____, Section 36, T 9 S, R 33 E

Top H20 58

Type Well: observation well Depth 75 feet.

Well Use: ____

Sample Number: 1 Date Taken: 8-24-81

Taken By: Eddie Seay

Specific Conductance: ____ m/sec

Total dissolved Solids: ____ PPM.

Chlorides: 3337 PPM.

Sulfates: ____ PPM.

Ortho-phosphates: ☐ V.Low ☐ Low ☐ Medium ☐ High

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

____ : ____

Date Analyzed: 8-31-81 By: Eddie W Seay
Oil Conservation Division

REMARKS: 10ml 355 x 9.4 = 3337 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

Well Ownership: OCD -- TAPP RANCH Well No. TA #1

Land Status: State ____ Federal ____ Fee ____

Well Location: Unit Letter ____, Section 36, T 9 S, R 33 E

top water 58 feet

Type Well: observation well Depth 80 feet.

Well Use: ____

Sample Number: 1 Date Taken: 5-12-81

Taken By: Eddie Seay

Specific Conductance: ____ m/ohm

Total dissolved Solids: ____ PPM.

Chlorides: 3195 PPM.

Sulfates: ____ PPM.

Ortho-phosphates: ☐ V.Low ☐ Low ☐ Medium ☐ High

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

____ : ____

Date Analyzed: 6-3-81 By: Lee Clement
Oil Conservation Division

REMARKS: 1 ml sample 3550 x .9 = 3195 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

Well Ownership: Tapp Ranch (OCD) Well No. TA #6

Land Status: State _____ Federal _____ Fee _____

Well Location: Unit Letter _____ Section 36 Township 9 Range 33

top water 57'

Type Well: observation well Depth 60 feet

Well Use: _____

Sample Number: _____ Date Taken: 4-30-85

Taken By: Ron Castleberry

Specific Conductance: _____ m/~

Total Dissolved Solids: _____ PPM.

Chlorides: 497 PPM.

Sulfates: _____ PPM.

Ortho-phosphates: _____ V. LOW _____ LO _____ MED _____ HI

Sulfides: _____ NONE _____ LO _____ MED _____ HI

_____ : _____

Date Analyzed: 5-8-85 By: Eddie W. Seay
OIL CONSERVATION DIVISION
Eddie Seay

REMARKS: 10 ml 355 x 1.4 = 497 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

Well Ownership: Tapp Ranch (OCD) Well No. TA #6

Land Status: State ____ Federal ____ Fee ____

Well Location: Unit Letter ____, Section 36, T 9 S, R 33 E

top water at 52'

Type Well: observation well Depth 60 feet.

Well Use: ____

Sample Number: ____ Date Taken: 1-17-85

Taken By: Ron Castleberry

Specific Conductance: ____ m/ω

Total dissolved Solids: ____ PPM.

Chlorides: 426 PPM.

Sulfates: ____ PPM.

Ortho-phosphates: ☐ V.Low ☐ Low ☐ Medium ☐ High

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

____ : ____

Date Analyzed: 1-21-85 By: Eddie Seay
Oil Conservation Division
Eddie Seay

REMARKS: 10 ml 355 x 1.2 = 426 ppm CL

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

RECEIVED
FEB - 8 1984
OIL CONSERVATION DIVISION
SANTA FE

WATER ANALYSIS

WELL OWNERSHIP: Tapp Ranch (OCD) WELL NO. 6

LAND STATUS: State _____ Federal _____ Fee _____

WELL LOCATION: Unit Letter _____, Section 36, T 9 S, R 33 E

Top H_2O 54 ft.

Type well: observation well Depth 59 feet

Well Use: _____

Sample Number: _____ Date Taken: 1-26-84

Taken By: Ron Castelberry

Specific Conductance: _____ m/~

Total Dissolved Solids _____ PPM

Chlorides: 4615 PPM

Sulfates: _____ PPM

Water Level: _____ from surface

Date Analyzed: 1-27-84 By: Eddie W Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 1.3=4615 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

Well Ownership: Tapp Ranch (OCD) Well No. TA #6

Land Status: State ____ Federal ____ Fee ____

Well Location: Unit Letter ____, Section 36, T 9 S, R 33 E

Top H_2O 53 ft.

Type Well: observation well Depth 58 feet.

Well Use: ____

Sample Number: 1 Date Taken: 6-8-83

Taken By: Ron Castleberry

Specific Conductance: ____ m/ω

Total dissolved Solids: ____ PPM.

Chlorides: 1668.5 PPM.

Sulfates: ____ PPM.

Ortho-phosphates: ☐ V.Low ☐ Low ☐ Medium ☐ High

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

____ : ____

Date Analyzed: 6-20-83 By: Eddie W Seay
Oil Conservation Division

REMARKS: 10 ml 355 x 4.7= 1668.5 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Tapp Ranch (OCD) WELL NO. TA #6

LAND STATUS: State _____ Federal _____ Fee _____

WELL LOCATION: Unit Letter _____, Section 36, T 9 S, R 33 E

Type well: observation well Depth 60 feet

Well Use: _____

Sample Number: 1 Date Taken: 9-9-82

Taken By: Eddie Seay

Specific Conductance: _____ m/

Total Dissolved Solids _____ PPM

Chlorides: 2130 PPM

Sulfates: _____ PPM

Water Level: 54 from surface

Date Analyzed: 11-18-82 By: Eddie W Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x .6 = 2130 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Tapp Ranch WELL NO. TA 6

LAND STATUS: State _____ Federal _____ Fee _____

WELL LOCATION: Unit Letter _____, Section 36, T 9 S, R 33 E

Type well: observation well Depth 60 feet

Well Use: _____

Sample Number: _____ Date Taken: 6-9-82

Taken By: Eddie Seay

Specific Conductance: _____ m/~

Total Dissolved Solids _____ PPM

Chlorides: 2556 PPM

Sulfates: _____ PPM

Water Level: 54 from surface

Date Analyzed: 6-28-82 By: Eddie W Seay
Oil Conservation Division

REMARKS: 10 ml 355 x 7.2 = 2556 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Tapp Ranch (OCD) WELL NO. TA #6

LAND STATUS: State _____ Federal _____ Fee _____

WELL LOCATION: Unit Letter _____, Section 36, T 9 S, R 33 E

Type well: Observation well Depth 60 feet

Well Use: _____

Sample Number: _____ Date Taken: 2-11-82

Taken By: Eddie Seay

Specific Conductance: _____ m/~

Total Dissolved Solids _____ PPM

Chlorides: 1455.5 PPM

Sulfates: _____ PPM

Water Level: 54 from surface

Date Analyzed: 3-11-82 By: Eddie W Seay
Oil Conservation Division

REMARKS: 10 ml 355 x 4.1= 1455.5 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Tapp Ranch WELL NO. TA-6

LAND STATUS: State _____ Federal _____ Fee _____

WELL LOCATION: Unit Letter _____, Section 36, T 9 S, R 33 E

Type well: Observation Well Depth 60 feet

Well Use: _____

Sample Number: 1 Date Taken: 9-28-81

Taken By: Eddie W. Seay

Specific Conductance: _____ m/~

Total Dissolved Solids _____ PPM

Chlorides: 1420 PPM

Sulfates: _____ PPM

Water Level: 54ft from surface

Date Analyzed: 10-27-81 By: Eddie W. Seay
Oil Conservation Division

REMARKS: 10 ml 355 x 4.0 = 1420 ppm

RECEIVED
NOV 05 1981
O.L CONSERVATION DIVISION
SANTA FE

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

Well Ownership: TAPP RANCH (OCD) Well No. TA #6

Land Status: State ____ Federal ____ Fee ____

Well Location: Unit Letter ____, Section 36, T 9 S, R 33 E

Top 54

Type Well: Observation well Depth 60 feet.

Well Use: ____

Sample Number: 1 Date Taken: 8-24-81

Taken By: Eddie Seay

Specific Conductance: ____ m/ω

Total dissolved Solids: ____ PPM.

Chlorides: 1384.5 PPM.

Sulfates: ____ PPM.

Ortho-phosphates: ☐ V.Low ☐ Low ☐ Medium ☐ High

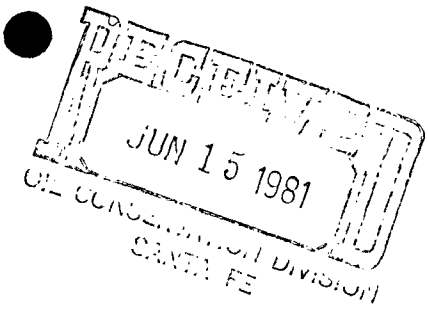
Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

____ : ____

Date Analyzed: 8-31-81 By: Eddie W Sean
Oil Conservation Division

REMARKS: 10ml 335 x 3.9 = 1384.5 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO



WATER ANALYSIS

Well Ownership: OCD -- TAPP RANCH Well No. TA #6

Land Status: State ____ Federal ____ Fee ____

Well Location: Unit Letter ____, Section 36, T 9 S, R 33 E

Top water 54 feet

Type Well: observation well Depth 60 feet.

Well Use: ____

Sample Number: 1 Date Taken: 5-12-81

Taken By: Eddie Seay

Specific Conductance: ____ m/ω

Total dissolved Solids: ____ PPM.

Chlorides: 1420 PPM.

Sulfates: ____ PPM.

Ortho-phosphates: ☐ V.Low ☐ Low ☐ Medium ☐ High

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

____ : ____

Date Analyzed: 6-3-81 By: Les Clements
Oil Conservation Division

REMARKS: 10 ml 355 x 4.0 = 1420 ppm

Albuquerque Analytical, Inc.

[505] 266-9106
[505] 294-6310 Nights

4115 Silver S.E.
Albuquerque, N.M. 87108

Cations	meq/l	% of total
Ca^{+2}	73.23	~~63.8~~ 64
Mg^{+2}	17.21	~~14.99~~ 15
$Na^{+1}+K^{+1}$	24.32	21.19
Total	114.76	

Anions	meq/l	% of total
Cl^{-1}	99.72	91.04
SO_4^{-1}	8.64	~~7.89~~ 8
$CO_3^{-2}+HCO_3^{-1}$	1.18	1.08
Total	109.54	

WATER ANALYSIS

No. 12686

Rec'd. September 19, 1980

Owner Oil Conservation Address P.O. Box 2088 Santa Fe, NM 87501

Appearance and Data T-A-1 Chemist J.M. Grover, M.S.

	mg/l	meq/l
Aluminum		
Ammonium		
Arsenic		
Barium		
Cadmium		
Calcium	1467.5	73.22825
Chromium (CrO_3^{-})		
Cobalt		
Copper		
Gold		
Iron		
Lead		
Lithium		
Magnesium	209.25	17.2087 2
Manganese		
Mercury T		
Nickel		
Potassium	15.5	0.39649
Silver		
Sodium	550.0	23.925
Uranium (U_3O_8)		
Zinc		

	mg/l	meq/l
Beryllium (BeO_3^{-})		
Bicarbonate	72.0	1.18008
Boron (BO_2^{-})		
Bromide		
Carbonate	<0.1	.003333
Chloride	3536.0	99.715 2
Cyanide		
Fluoride		
Hydroxide		
Iodide		
Molybdenum (MoO_4^{-})		
Nitrate		
Nitrite		
Phosphate (Tot.)		
Phosphate (Meta)		
Phosphate (Ortho)		
Selenium (SeO_4^{-})		
Sulfate	415.0	8.6403
Sulfite		
Tellurium (TeO_3^{-})		
Vanadium		

Acidity		ppm
Alkalinity		ppm
BOD		ppm
Chlorine		ppm
COD		ppm
Color		PCU
Conductance		µmho/cm
Dissolved O_2		ppm
Hardness		ppm
H_2S		ppm
Hydrazine		ppm
Odor		T.O.
pH		
Phenols		ppm
Silica		ppm
Solids (Tot.)		ppm
Solids (Tot. Diss.)	9976.0	ppm
Solids (Tot. Susp.)		ppm
Solids ( )		ppm
Surfactant		ppm
Turbidity		JTU
Volatile Acids		ppm

Albuquerque Analytical, Inc.

[505] 266-9106
[505] 294-6310 Nights

4115 Silver S.E.
Albuquerque, N.M. 87108

No. 12686

Rec'd. September 19, 1980

WATER ANALYSIS

Cations	meq/l	% of total
Ca^{+2}	24.82	39.24 ~~39.24~~
Mg^{+2}	5.96	7.84 ~~7.84~~ 8
$Na^{+1}+K^{+1}$	40.22	52.92 ~~52.92~~ 53
Total	76.00	

Anions	meq/l	% of total
Cl^{-1}	51.32	72.76
SO_4^{-1}	18.22	25.62 ~~25.62~~ 26
$CO_3^{-2}+HCO_3^{-1}$	1.58	2.22 ~~2.22~~
Total	71.12	

Owner Oil Conservation Address P.O. Box 2088 Santa Fe, NM 87501

Appearance and Data T-A-6 Chemist J.M. Grover, M.S.

	mg/l	meq/l
Aluminum		
Ammonium		
Arsenic		
Barium		
Cadmium		
Calcium	597.5	29.8125
Chromium (CrO_3^{-})		
Cobalt		
Copper		
Gold		
Iron		
Lead		
Lithium		
Magnesium	72.5	5.9624
Manganese		
Mercury T		
Nickel		
Potassium	237.5	6.07525
Silver		
Sodium	785.0	34.1475
Uranium (U_3O_8)		
Zinc		

	mg/l	meq/l
Beryllium (BeO_3^{-})		
Bicarbonate	96.0	1.57344
Boron (BO_2^{-})		
Bromide		
Carbonate	<0.1	.003333
Chloride	1,820.0	51.324
Cyanide		
Fluoride		
Hydroxide		
Iodide		
Molybdenum (MoO_4^{-})		
Nitrate		
Nitrite		
Phosphate (Tot.)		
Phosphate (Meta)		
Phosphate (Ortho)		
Selenium (SeO_4^{-})		
Sulfate	875.0	18.2175
Sulfite		
Tellurium (TeO_3^{-})		
Vanadium		

Acidity		ppm
Alkalinity		ppm
BOD		ppm
Chlorine		ppm
COD		ppm
Color		PCU
Conductance		µho/cm
Dissolved O_2		ppm
Hardness		ppm
H_2S		ppm
Hydrazine		ppm
Odor		T.O.
pH		
Phenols		ppm
Silica		ppm
Solids (Tot.)		ppm
Solids (Tot. Diss.)	4844.0	ppm
Solids (Tot. Susp.)		ppm
Solids ( )		ppm
Surfactant		ppm
Turbidity		JTU
Volatile Acids		ppm

Albuquerque Analytical, Inc.

[505] 266-9106
[505] 294-6310 Nights

4115 Silver S.E.
Albuquerque, N.M. 87108

No. 12686

Rec'd. September 19, 1980

WATER ANALYSIS

Cations	meq/l	% of total
Ca^{+2}	40.17	42.70 43
Mg^{+2}	8.24	8.76 9
$Na^{+1}+K^{+1}$	45.67	48.54
Total	94.08	

Anions	meq/l	% of total
Cl^{-1}	73.04	77.88 78
SO_4^{-1}	19.26	20.54
$CO_3^{-2}+HCO_3^{-1}$	1.48	1.58 2
Total	93.78	

Owner Oil Conservation Address P.O. Box 2088 Santa Fe, NM 87501

Appearance and Data T-A-8 Chemist J.M. Grover, M.S.

	mg/l	meq/l
Aluminum		
Ammonium		
Arsenic		
Barium		
Cadmium		
Calcium	805.0	40.1695
Chromium (CrO_3^-)		
Cobalt		
Copper		
Gold		
Iron		
Lead		
Lithium		
Magnesium	100.25	8.24456
Manganese		
Mercury T		
Nickel		
Potassium	12.5	0.31975
Silver		
Sodium	1042.5	45.34875
Uranium (U_3O_8)		
Zinc		

	mg/l	meq/l
Beryllium (BeO_3^-)		
Bicarbonate	90.0	1.4751
Boron (BO_2^-)		
Bromide		
Carbonate	<0.1	.003333
Chloride	2590.0	73.038
Cyanide		
Fluoride		
Hydroxide		
Iodide		
Molybdenum (MoO_4^-)		
Nitrate		
Nitrite		
Phosphate (Tot.)		
Phosphate (Meta)		
Phosphate (Ortho)		
Selenium (SeO_4^-)		
Sulfate	925.0	19.2585
Sulfite		
Tellurium (TeO_3^-)		
Vanadium		

Acidity	ppm
Alkalinity	ppm
BOD	ppm
Chlorine	ppm
COD	ppm
Color	PCU
Conductance	μmho/cm
Dissolved O_2	ppm
Hardness	ppm
H_2S	ppm
Hydrazine	ppm
Odor	T.O.
pH	
Phenols	ppm
Silica	ppm
Solids (Tot.)	ppm
Solids (Tot. Diss.)	6948.0 ppm
Solids (Tot. Susp.)	ppm
Solids ( )	ppm
Surfactant	ppm
Turbidity	JTU
Volatile Acids	ppm

Albuquerque Analytical, Inc.

[505] 266-9106
[505] 294-6310 Nights

4115 Silver S.E.
Albuquerque, N.M. 87108

No. 12686

Rec'd. September 19, 1980

WATER ANALYSIS

Cations	meq/l	% of total
Ca^{+2}	168.21	~~58.51~~ 59
Mg^{+2}	29.94	10.41
$Na^{+1} + K^{+1}$	89.34	31.07
Total	287.49	

Anions	meq/l	% of total
Cl^{-1}	238.29	93.45
SO_4^{-1}	15.62	6.12
$CO_3^{-2} + HCO_3^{-1}$	1.09	~~.43~~ 1.0
Total	255.00	

Owner Oil Conservation Address P.O. Box 2088 Santa Fe, NM 87501

Appearance and Data T-A-9 Chemist J.M. Grover, M.S.

	mg/l	meq/l
Aluminum		
Ammonium		
Arsenic		
Barium		
Cadmium		
Calcium	3371.0	168.2129
Chromium ($CrO_3^{=}$)		
Cobalt		
Copper		
Gold		
Iron		
Lead		
Lithium		
Magnesium	364.0	29.93536
Manganese		
Mercury T		
Nickel		
Potassium	25.2	0.644616
Silver		
Sodium	2039.0	88.6965
Uranium (U_3O_8)		
Zinc		

	mg/l	meq/l
Beryllium ($BeO_3^{=}$)		
Bicarbonate	66.0	1.08174
Boron (BO_2^{-})		
Bromide		
Carbonate	<0.1	.003333
Chloride	8450.0	238.29
Cyanide		
Fluoride		
Hydroxide		
Iodide		
Molybdenum ($MoO_4^{=}$)		
Nitrate		
Nitrite		
Phosphate (Tot.)		
Phosphate (Meta)		
Phosphate (Ortho)		
Selenium ($SeO_4^{=}$)		
Sulfate	750.0	15.615
Sulfite		
Tellurium ($TeO_3^{=}$)		
Vanadium		

Acidity	ppm
Alkalinity	ppm
BOD	ppm
Chlorine	ppm
COD	ppm
Color	PCU
Conductance	μho/cm
Dissolved O_2	ppm
Hardness	ppm
H_2S	ppm
Hydrazine	ppm
Odor	T.O.
pH	
Phenols	ppm
Silica	ppm
Solids (Tot.)	ppm
Solids (Tot. Diss.)	20,688.0 ppm
Solids (Tot. Susp.)	ppm
Solids ( )	ppm
Surfactant	ppm
Turbidity	JTU
Volatile Acids	ppm