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REPORTS

DATE:

1980 - 1982

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton - Texaco WELL NO. #15-A

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Observation Depth 95 feet

Well Use:

Sample Number: 1

Date Taken: 10-29-81

Taken By: Eddie W. Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 15265 PPM

Sulfates: PPM

Water Level: 62ft from surface

Date Analyzed: 11-16-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 4.3 = 15265 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (Texaco) WELL NO. 15-A

LAND STATUS: State _____ Federal _____ Fee _____

WELL LOCATION: Unit Letter _____, Section 24, T 11 S, R 32 E

Top H₂O - 62ft

Type well: Observation Well Depth 90 feet

Well Use: _____

Sample Number: 1

Date Taken: 10-22-81

Taken By: Eddie W. Seay

Specific Conductance: _____ m/∞

Total Dissolved Solids _____ PPM

Chlorides: 5325 PPM

Sulfates: _____ PPM

Water level: 62ft from surface

Date Analyzed: 10-27-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 1.5 = 5325 ppm

Supervisor, District I

NOV 27 1981

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (Texaco) WELL NO. 15-A

LAND STATUS: State _____ Federal _____ Fee _____

WELL LOCATION: Unit Letter _____, Section 24, T. 11 S, R 32 E

Type well: Observation Well Depth 90 feet

Well Use: _____

Sample Number: 1

Date Taken: 10-15-81

Taken By: Eddie W. Seay

Specific Conductance: _____ m/—

Total Dissolved Solids _____ PPM

Chlorides: 8520 PPM

Sulfates: _____ PPM

Water level: 63ft from surface

Date Analyzed: 10-27-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 2.4 = 8520 ppm

Supervisor, District I

NOV 25 1981

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WATER ANALYSIS

REMARKS: 1ml 3550 x 4.4 = 15,620 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. 3-A

LAND STATUS: State X Federal Fee

WELL LOCATION: Unit Letter D, Section 24, T 11 S, R 32 E

Type well: Moniter Well Depth 65 feet

Well Use:

Sample Number: 1

Date Taken: 2-16-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 16685 PPM

Sulfates: PPM

Water Level: 63 from surface

Date Analyzed: 2-16-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 4.7= 16,685 ppm

FEB 19 1982

OIL CONSERVATION DIVISION

XC;Paul Hamilton

Texaco, Inc.

Oscar Simpson-OCD-Santa Fe

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Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. 3-A

LAND STATUS: State X Federal Fee

WELL LOCATION: Unit Letter D, Section 24, T 11 S, R 32 E

Type well: Monitor Well Depth 105 feet

Well Use:

Sample Number: 2

Date Taken: 2-16-82

Taken By: Eddie Seay

Specific Conductance: m/∞ ..

Total Dissolved Solids PPM

Chlorides: 24,850 PPM

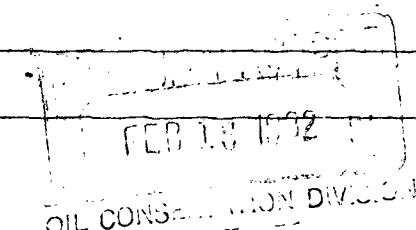
Sulfates: PPM

Water Level: 63 from surface

Date Analyzed: 2-16-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1ml 3550 x 7.0 = 24,850 ppm



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Texaco, Inc.
Oscar Simpson-OCD-Santa Fe
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Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. 3-A

LAND STATUS: State X Federal Fee

WELL LOCATION: Unit Letter D, Section 24, T 11 S, R 32 E

Type well: Monitor Well Depth 95 feet

Well Use:

Sample Number: 1

Date Taken: 2-12-82

Taken By: Eddie Seay

Specific Conductance: m/ ~ ..

Total Dissolved Solids PPM

Chlorides: 23785 PPM

Sulfates: PPM

Water level: 63 from surface

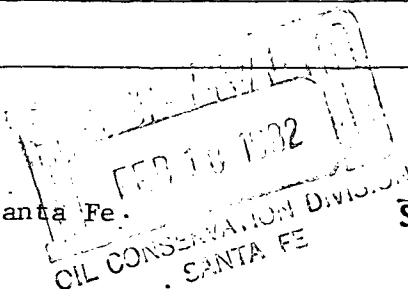
Date Analyzed: 2-15-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 6.7= 23,785 ppm

XC:Paul Hamilton
Texaco, Inc.

✓Oscar Simpson-OCD-Santa Fe.
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ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. 3-A

LAND STATUS: State X Federal Fee

WELL LOCATION: Unit Letter D, Section 24, T 11 S, R 32 E

Type well: Monitor Well Depth 105 feet

Well Use:

Sample Number: Date Taken: 2-12-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 24,495 PPM

Sulfates: PPM

Water level: 63 from surface

Date Analyzed: 2-15-82

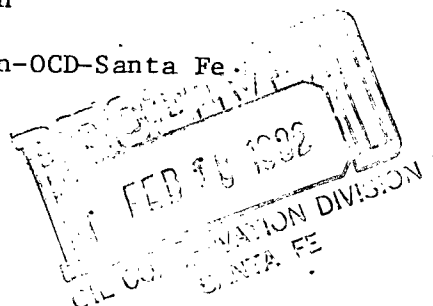
By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 6.9 = 24,495 ppm

XC:Paul Hamilton
Texaco, Inc.

Oscar Simpson-OCD-Santa Fe
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ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. 3-A

LAND STATUS: State X Federal Fee

WELL LOCATION: Unit Letter D, Section 24, T 11 S, R 32 E

Type well: Moniter well Depth 105 feet

Well Use:

Sample Number: Date Taken: 2-12-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 24,850 PPM

Sulfates: PPM

Water level: 63 from surface

Date Analyzed: 2-15-82

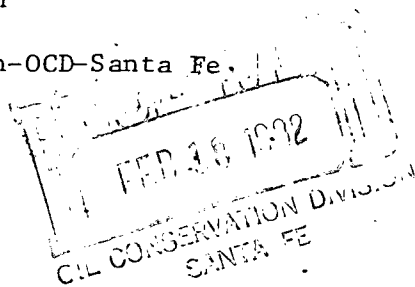
By: Eddie W Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 7.0= 24,850 ppm

XC:Paul Hamilton
Texaco, Inc.

Oscar Simpson-OCD-Santa Fe.
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ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. 3-A

LAND STATUS: State x Federal Fee

WELL LOCATION: Unit Letter D, Section 24, T 11 S, R 32 E

Type well: Monitor Well Depth 105 feet

Well Use:

Sample Number:

Date Taken: 1-28-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 25,205 PPM

Sulfates: PPM

Water level: 63 from surface

Date Analyzed: 2-4-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 7.1 = 25,205

XC:Paul Hamilton
Texaco, Inc.
Oscar Simpson-OCd-Santa Fe
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Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. 3-A

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Monitor well Depth 105 feet

Well Use:

Sample Number: Date Taken: 1-22-82

Taken By Eddie Seay

Specific Conductance: m/cm

Total Dissolved Solids PPM

Chlorides: 25,915 PPM

Sulfates: PPM

Water Level: 63' from surface

Date Analyzed: 1-26-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 7.3= 25,915 ppm

cc: Paul Hamilton

Texaco

Oscar Simpson-OCD Santa Fe

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Supervisor, District 1

FEB 01 1982

OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. 3-A

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T. 11 S, R. 32 E

Type well: Moniter Depth 105 feet

Well Use:

Sample Number:

Date Taken: 1-8-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 25915 PPM

Sulfates: PPM

Water level: 63' from surface

Date Analyzed: 1-11-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 7.3 = 25915

XC:Paul Hamilton
Texaco Inc.
Oscar Simpson-OCD-Santa Fe
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ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. 3-A

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T. 11 S, R 32 E

Type well: MONiter Depth 105 feet

Well Use:

Sample Number: Date Taken: 12-23-81

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 25560 PPM

Sulfates: PPM

Water level: 63' from surface

Date Analyzed: 1-11-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 7.2=25560

XC:Paul Hamilton
Texaco Inc.
Oscar Simpson-OCD-Santa Fe
File

Supervisor, District 1

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. 3-A

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Monitor Well Depth 105 feet

Well Use:

Sample Number: Date Taken: 12-17-81

Taken By: Eddie Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 25,205 PPM

Sulfates: PPM

Water Level: 63' from surface

Date Analyzed: 1-11-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 7.1= 25,205

XC:Paul Hamilton
Texaco Inc.
Oscar Simpson-OCD-Santa Fe
File

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. 3-A

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section , T S, R E

Type well: Monter Well Depth 105 feet

Well Use:

Sample Number:

Date Taken: 12-10-81

Taken By: Eddie Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 25,915 PPM

Sulfates: PPM

Water Level: 63' from surface

Date Analyzed: 1-11-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 1 ml 3550x7.3=25,915

XC:Paul Hamilton

Texaco Inc.

Oscar Simpson-OCD Santa Fe

File

Supervisor, District I

WATER ANALYSIS

REMARKS: 1 ml 3550 x 7.3 = 25,915 ppm

WATER ANALYSIS

REMARKS: 1 ml 3550 x 7.1 = 25,205 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

Well Ownership: TEXACO INC. Well No. 3-A

Land Status: State Federal Fee

Well Location: Unit Letter , Section 24, T 11 S, R 32 E

Type Well: Observation well Depth 105 feet.

Well Use:

Sample Number: 1

Date Taken: 11-18-81

Taken By: Eddie W. Seay

Specific Conductance: m/c

Total dissolved Solids: PPM.

Chlorides: 25,205 PPM.

Sulfates: PPM.

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

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

 :

Date Analyzed: 12-3-81

By: Eddie W. Seay
Oil Conservation Division

Water level: 63 ft. from surface

REMARKS: 1 ml 3550 x 7.1 = 25,205 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton - Texaco WELL NO. #3-A

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Observation Depth 105 feet

Well Use:

Sample Number: 1

Date Taken: 11-12-81

Taken By: Eddie W. Seay

Specific Conductance: m/cm

Total Dissolved Solids PPM

Chlorides: 25560 PPM

Sulfates: PPM

Water Level: 63ft from surface

Date Analyzed: 11-16-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 7.2 = 25560 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton - Texaco WELL NO. #3-A

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Observation Depth 88 feet

Well Use:

Sample Number: 1

Date Taken: 11-5-81

Taken By: A.A. Plattsmier

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 25205 PPM

Sulfates: PPM

Water Level: 60ft from surface

Date Analyzed: 11-16-81

By: Eddie W. Dean
Oil Conservation Division

REMARKS: 1 ml 3550 x 7.1 = 25205

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton - Texaco WELL NO. #3-A

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Observation Depth 105 feet

Well Use:

Sample Number: 1

Date Taken: 10-29-81

Taken By: Eddie W. Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 24495 PPM

Sulfates: PPM

Water Level: 63ft from surface

Date Analyzed: 11-16-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 6.9 = 24495 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (Texaco) WELL NO. #3-A

LAND STATUS: State _____ Federal _____ Fee _____

WELL LOCATION: Unit Letter _____, Section 24, T. 11 S, R 32 E

Top H₂O - 63ft

Type well: Observation Well Depth 105 feet

Well Use: _____

Sample Number: 1

Date Taken: 10-22-81

Taken By: Eddie W. Seay

Specific Conductance: _____ m/

Total Dissolved Solids _____ PPM

Chlorides: 25,205 PPM

Sulfates: _____ PPM

Water level: 63ft from surface

Date Analyzed: 10-27-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 7.1 = 25,205 ppm

Supervisor, District I

NOV 30 1981
OIL CONSERVATION DIVISION
HOBBS, NM

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (Texaco) WELL NO. 3-A

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T. 11 S, R 32 E

Type well: Observation Well Depth 105 feet

Well Use:

Sample Number: 1

Date Taken: 10-15-81

Taken By: Eddie W. Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 24850 PPM

Sulfates: PPM

Water level: 63ft from surface

Date Analyzed: 10-27-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 7.0 = 24850 ppm

Supervisor, District I

NOV 9 1981
OIL CONSERVATION DIVISION
SANTA FE

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U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
SANTA FE

WATER ANALYSIS

REMARKS: 1ml 3550 x 7.5 = 26,625 ppm

WATER ANALYSIS

REMARKS: 1 ml 3550 X 7.2 = 25,560 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton WELL NO. OB well

LAND STATUS: State _____ Federal _____ Fee _____

WELL LOCATION: Unit Letter _____, Section 24, T 11 S, R 32 E

Type well: Moniter well Depth 75 feet

Well Use: _____

Sample Number: 1

Date Taken: 12-10-81

Taken By: Eddie Saey

Specific Conductance: _____ m/~

Total Dissolved Solids _____ PPM

Chlorides: 22365 PPM

Sulfates: _____ PPM

Water Level: 65' from surface

Date Analyzed: 1-11-82

By: Eddie W Saey
Oil Conservation Division

REMARKS: 1 ml 3550 x 6.3=22365

XC:Paul Hamilton

Texaco Inc.

Oscar Simpson-OCD Santa Fe
File

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

Well Ownership: HAMILTON OB WELL Well No. _____

Land Status: State _____ Federal _____ Fee _____

Well Location: Unit Letter _____, Section 24, T 11 S, R 32 E

Type Well: Observation well Depth 75 feet.

Well Use: _____

Sample Number: 1

Date Taken: 11-18-81

Taken By: Eddie W. Seay

Specific Conductance: _____ m/cm

Total dissolved Solids: _____ PPM.

Chlorides: 21,655 PPM.

Sulfates: _____ PPM.

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

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

_____: _____

Date Analyzed: 12-3-81

By: Eddie W. Seay
Oil Conservation Division

Water level: 65 ft. from surface

REMARKS: 1 ml 3550 x 6.1 = 21,655 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton OB Well WELL NO. OB Well

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Observation Depth 75 feet

Well Use:

Sample Number: 1

Date Taken: 11-5-81

Taken By: A.A. Plattsmier

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 21655 PPM

Sulfates: PPM

Water Level: 65ft from surface

Date Analyzed: 11-16-81

By: Eddie W. [Signature]
Oil Conservation Division

REMARKS: 1 ml 3550 x 6.1 = 21655 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. 1

LAND STATUS: State X Federal Fee

WELL LOCATION: Unit Letter D, Section 24, T 11 S, R 32 E

Type well: Moniter well Depth 90 feet

Well Use:

Sample Number:

Date Taken: 2-12-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 312.4 PPM

Sulfates: PPM

Water level: 64 from surface

Date Analyzed: 2-15-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142 x 2.2= 312.4ppm

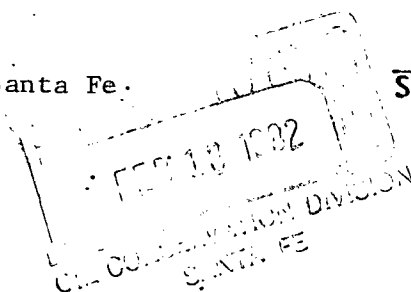
XC:Paul Hamilton

Texaco, Inc.

Oscar Simpson-OCD-Santa Fe

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Supervisor, District I



ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

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WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. 1

LAND STATUS: State X Federal Fee

WELL LOCATION: Unit Letter D, Section 24, T. 11 S, R 32 E

Type well: Monitor well Depth 90 feet

Well Use:

Sample Number:

Date Taken: 2-8-82
2-12-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 326.6 PPM

Sulfates: PPM

Water Level: 64 from surface

Date Analyzed: 2-15-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142 x 2.3= 326.6ppm

XC:Paul Hamilton

Texaco, Inc.

Oscar Simpson-OCD-Santa Fe

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Supervisor, District I

FEB 18 1982
OIL CONSERVATION DIVISION
SANTA FE

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. 2

LAND STATUS: State X Federal Fee

WELL LOCATION: Unit Letter D, Section 24, T 11 S, R 32 E

Type well: Monitor well Depth 110 feet

Well Use:

Sample Number: Date Taken: 2-12-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 127.8 PPM

Sulfates: PPM

Water level: 64 from surface

Date Analyzed: 2-15-82

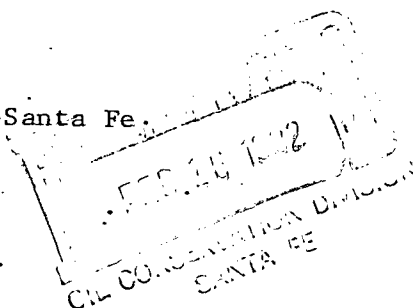
By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142 x .9=127.8 ppm

XC:Paul Hamilton
Texaco, Inc.

✓Oscar Simpson-OCD-Santa Fe
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Supervisor, District I



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WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. 2

LAND STATUS: State X Federal _____ Fee _____

WELL LOCATION: Unit Letter D, Section 24, T. 11 S, R 32 E

Type well: Moniter well Depth 110 feet

Well Use: _____

Sample Number:

2-8-82
Date Taken: ~~2-12-82~~

Taken By: Eddie Seay

Specific Conductance: m/cm

Total Dissolved Solids PPM

Chlorides: 142 PPM

Sulfates: PPM

Water Level: 64 from surface

Date Analyzed: 2-15-82

By: Eddie W. Leary
Oil Conservation Division

REMARKS: 25 ml 142 x 1.0= 142 ppm

XC:Paul Hamilton

Texaco, Inc.

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C. G. ...

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

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WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. 3

LAND STATUS: State X Federal Fee

WELL LOCATION: Unit Letter D, Section 24, T 11 S, R 32 E

Type well: Moniter well Depth 90 feet

Well Use:

Sample Number:

Date Taken: 2-8-82
2-12-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 42.6 PPM

Sulfates: PPM

Water level: 62 from surface

Date Analyzed: 2-15-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 25 ml 142 x .3= 42.6 ppm

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ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton Texaco WELL NO. A

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 23, T 11 S, R 32 E

New Drill Red Bed - 107ft

Type well: Test Well Depth 112 feet

Well Use:

Sample Number: 1

Date Taken: 10-3-81

Taken By: Eddie W. Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 7100 PPM

Sulfates: PPM

Water Level: from surface

Date Analyzed: 10-27-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: Drill and shut in overnight

1 ml 3550 x 2.0 = 7100 ppm

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HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton Texaco WELL NO. A

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 23, T 11 S, R 32 E

New Drill Red Bed - 107ft

Type well: Test well Depth 112 feet

Well Use:

Sample Number: 2

Date Taken: 10-3-81

Taken By: Eddie W. Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 8875 PPM

Sulfates: PPM

Water level: from surface

Date Analyzed: 10-27-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 45 min Jet Sample after overnight

1 lm 3550 x 2.5 = 8875 ppm

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WATER ANALYSIS

WELL OWNERSHIP: Hamilton Texaco WELL NO. B

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

New Drill Red Bed - 101 ft

Type well: Test Well Depth 104 feet

Well Use:

Sample Number: 1

Date Taken: 10-2-81

Taken By: Eddie W. Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 8520 PPM

Sulfates: PPM

Water Level: from surface

Date Analyzed: 10-27-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: Jet Sample 1 hr.

1 ml 3550 x 2.4 = 8520 ppm

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WATER ANALYSIS

WELL OWNERSHIP: Hamilton (Texaco) WELL NO. B

LAND STATUS: State _____ Federal _____ Fee _____

WELL LOCATION: Unit Letter _____, Section 24, T 11 S, R 32 E

New Drill Red Bed - 101 ft

Type well: Test Hole Depth 104 feet

Well Use: _____

Sample Number: 2

Date Taken: 10-2-81

Taken By: Eddie W. Seay

Specific Conductance: _____ m/Ω

Total Dissolved Solids _____ PPM

Chlorides: 13,135 PPM

Sulfates: _____ PPM

Water Level: _____ from surface

Date Analyzed: 10-27-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: Jet Sample 1 1/2 hr.

1 ml 3550 x 3.7 = 13135 ppm

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WATER ANALYSIS

WELL OWNERSHIP: Hamilton Texaco WELL NO. C

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

New Drill

Red Bed - 111 ft

Type well: Test Well Depth 114 feet

Well Use:

Sample Number: 1

Date Taken: 10-1-81

Taken By: Eddie W. Seay

Specific Conductance: m/∞

Total Dissolved Solids PPM

Chlorides: 10295 PPM

Sulfates: PPM

Water Level: from surface

Date Analyzed: 10-27-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 hr Jet Sample

1 ml 3550 x 2.9 = 10295 ppm

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ENERGY AND MINERALS DEPARTMENT
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WATER ANALYSIS

WELL OWNERSHIP: Hamilton Texaco WELL NO. c

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

New Drill

Red Bed - 111

Type well: Test Well Depth 114 feet

Well Use:

Sample Number: 2

Date Taken: 10-1-81

Taken By: Eddie W. Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 13490 PPM

Sulfates: PPM

Water level: from surface

Date Analyzed: 10-22-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 hr. 15 min. Jet Sample

1 ml 3550 x .8 = 13490 ppm

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WATER ANALYSIS

WELL OWNERSHIP: Hamilton Texaco WELL NO. D

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T. 11 S, R 32 E

New Drill

Red Bed 112 ft.

Type well: Test Well Depth 115 feet

Well Use:

Sample Number: 1

Date Taken: 10-1-81

Taken By: Eddie W. Seay

Specific Conductance: m/Ω

Total Dissolved Solids PPM

Chlorides: 142 PPM

Sulfates: PPM

Water Level: from surface

Date Analyzed: 10-27-81

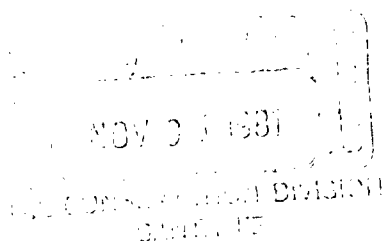
By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 1/2 hr. Jet Sample

25 ml 142 x 1.0 = 142 ppm

Sample had mud suspended in water.

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ENERGY AND MINERALS DEPARTMENT
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HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton Texaco WELL NO. D

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

New Drill

Red Bed 112

Type well: Test Well Depth 115 feet

Well Use:

Sample Number: 2

Date Taken: 10-1-81

Taken By: Eddie W. Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 99.4 PPM

Sulfates: PPM

Water Level: from surface

Date Analyzed: 10-27-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: Jet Sample 2 hr.

25 ml 142 x .7 = 99.4 ppm

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ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton Texaco WELL NO. E

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

New Drill Red Bed - 108 ft.

Type well: Test Well Depth 111 feet

Well Use:

Sample Number: 1

Date Taken: 9-30-81

Taken By: Eddie W. Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 7100 PPM

Sulfates: PPM

Water Level: from surface

Date Analyzed: 10-27-81

By: Eddie W. Seay
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REMARKS: 1/2 Jet Sample

1 ml 3550 x 2.0 = 7100 ppm

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ENERGY AND MINERALS DEPARTMENT
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HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton Texaco WELL NO. E

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

New Drill Red Bed - 108ft

Type well: Test Well Depth 111 feet

Well Use:

Sample Number: 2

Date Taken: 9-30-81

Taken By: Eddie W. Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 8165 PPM

Sulfates: PPM

Water Level: from surface

Date Analyzed: 10-27-81

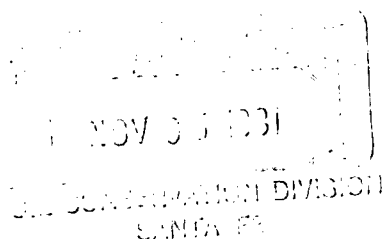
By: Eddie W. Seay
Oil Conservation Division

REMARKS: 45 min. Jet Sample

1 ml 3550 x 2.3 = 8165 ppm

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HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton Texaco WELL NO. E

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

New Drill Red Bed - 108ft

Type well: Test Well Depth 111 feet

Well Use:

Sample Number: 3

Date Taken: 10-1-81

Taken By: Eddie W. Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 8165 PPM

Sulfates: PPM

Water Level: from surface

Date Analyzed: 10-1-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: Overnight sample approx. 12 hrs.

1 ml 3550 x 2.3 = 8165 ppm

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ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton Texaco WELL NO. F

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E
New Drill Red Bed - 116ft

Type well: Test Well Depth 119 feet

Well Use:

Sample Number: 1

Date Taken: 10-3-81

Taken By: Eddie W. Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 13845 PPM

Sulfates: PPM

Water Level: from surface

Date Analyzed: 10-27-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 hr. Jet Sample

1 ml 3550 x 3.9 = 13845 ppm

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ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton Texaco WELL NO. F

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

New Drill

Red Bed 116ft

Type well: Test Well Depth 119 feet

Well Use:

Sample Number: 2

Date Taken: 10-1-81

Taken By: Eddie W. Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 17040 PPM

Sulfates: PPM

Water Level: from surface

Date Analyzed: 10-27-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 1/2 hr. Jet Sample

1 ml 3550 x 4.8 = 17040 ppm

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ENERGY AND MINERALS DEPARTMENT
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WATER ANALYSIS

WELL OWNERSHIP: Hamilton OB-Well WELL NO. _____

LAND STATUS: State X Federal _____ Fee _____

WELL LOCATION: Unit Letter D, Section 24, T 11 S, R 32 E

Type well: Moniter well Depth 67 feet

Well Use: _____

Sample Number: 1

Date Taken: 2-12-82

Taken By: Eddie Seay

Specific Conductance: _____ m/

Total Dissolved Solids _____ PPM

Chlorides: 21300 PPM

Sulfates: _____ PPM

Water level: 65 from surface

Date Analyzed: 2-15-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 6.0 = 21,300 ppm

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WATER ANALYSIS

WELL OWNERSHIP: Hamilton OB Well WELL NO. OB Well

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Observation Depth 100 feet

Well Use:

Sample Number: 2

Date Taken: 11-5-81

Taken By: A.A. Plattsmier

Specific Conductance: m/—

Total Dissolved Solids PPM

Chlorides: 23785 PPM

Sulfates: PPM

Water Level: from surface

Date Analyzed: 11-16-81

By: Eddie W. [Signature]
Oil Conservation Division

REMARKS: 1 ml 3550 x 6.7 = 23785 ppm

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ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
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WATER ANALYSIS

WELL OWNERSHIP: Hamilton OB Well WELL NO. _____

LAND STATUS: State X Federal _____ Fee _____

WELL LOCATION: Unit Letter D, Section 24, T. 11 S, R 32 E

Type well: Moniter Well Depth 105 feet

Well Use: _____

Sample Number: _____

Date Taken: 2-16-82

Taken By: Eddie Seay

Specific Conductance: _____ m/

Total Dissolved Solids _____ PPM

Chlorides: 23430 PPM

Sulfates: _____ PPM

Water level: 65 from surface

Date Analyzed: 2-16-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 6.6= 23,430 ppm

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WATER ANALYSIS

WELL OWNERSHIP: Hamilton OB Well WELL NO. _____

LAND STATUS: State X Federal _____ Fee _____

WELL LOCATION: Unit Letter D, Section 24, T. 11 S. R 32 E

Type well: Moniter well Depth 105 feet

Well Use: _____

Sample Number: _____

2-8-82
Date Taken: 2-12-82

Taken By: Eddie Seay

Specific Conductance: _____ m/

Total Dissolved Solids _____ PPM

Chlorides: 23,075 PPM

Sulfates: _____ PPM

Water Level: 65 from surface

Date Analyzed: 2-15-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 6.5= 23,075

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WATER ANALYSIS

WELL OWNERSHIP: Hamilton OBWell WELL NO. _____

LAND STATUS: State x Federal _____ Fee _____

WELL LOCATION: Unit Letter D, Section 24, T 11 S, R 32 E

Type well: Moniter well Depth 105 feet

Well Use: _____

Sample Number: _____ Date Taken: 1-22-82

Taken By: Eddie Seay

Specific Conductance: _____ m/~

Total Dissolved Solids _____ PPM

Chlorides: 23,785 PPM

Sulfates: _____ PPM

Water level: 65 from surface

Date Analyzed: 1-26-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 1ml 3550 x 6.7= 23,785 ppm

cc:Paul Hamilton

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OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton WELL NO. OB well

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Monitor Depth 105 feet

Well Use:

Sample Number:

Date Taken: 1-8-82

Taken By: Eddie Seay

Specific Conductance: m/cm

Total Dissolved Solids PPM

Chlorides: 24850 PPM

Sulfates: PPM

Water Level: 65' from surface

Date Analyzed: 1-11-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 7.0 = 24,850

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WATER ANALYSIS

WELL OWNERSHIP: Hamilton WELL NO. OB well

LAND STATUS: State _____ Federal _____ Fee _____

WELL LOCATION: Unit Letter _____, Section 24, T 11 S, R 32 E

Type well: Monitor Depth 105 feet

Well Use: _____

Sample Number: _____

Date Taken: 1-5-82

Taken By: Eddie Seay

Specific Conductance: _____ m/

Total Dissolved Solids _____ PPM

Chlorides: 23785 PPM

Sulfates: _____ PPM

Water level: 64' from surface

Date Analyzed: 1-11-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 6.7 = 23,785

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WATER ANALYSIS

WELL OWNERSHIP: Hamilton WELL NO. OB well

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Monitor Depth 105 feet

Well Use:

Sample Number: Date Taken: 12-31-81

Taken By: Eddie Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 23785 PPM

Sulfates: PPM

Water Level: 65' from surface

Date Analyzed: 1-11-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 6.7= 23,785

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WATER ANALYSIS

WELL OWNERSHIP: Hamilton WELL NO. OB well

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Monitor Depth 105 feet

Well Use:

Sample Number:

Date Taken: 12-23-81

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 24140 PPM

Sulfates: PPM

Water Level: 65' from surface

Date Analyzed: 1-11-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 1 ml 3550x 6.8= 24140

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WATER ANALYSIS

WELL OWNERSHIP: Hamilton WELL NO. OB well

LAND STATUS: State _____ Federal _____ Fee _____

WELL LOCATION: Unit Letter _____, Section 24, T 11 S, R 32 E

Type well: Monitor well Depth 105 feet

Well Use: _____

Sample Number: _____

Date Taken: 12-17-81

Taken By: Eddie Seay

Specific Conductance: _____ m/

Total Dissolved Solids _____ PPM

Chlorides: 22,010 PPM

Sulfates: _____ PPM

Water level: 65' from surface

Date Analyzed: 1-11-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 6.2= 22010

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OIL CONSERVATION DIVISION
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WATER ANALYSIS

WELL OWNERSHIP: Hamilton WELL NO. OB well

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T. 11 S, R 32 E

Type well: Moniter Well Depth 105 feet

Well Use:

Sample Number: 2

Date Taken: 12-10-81

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 23785 PPM

Sulfates: PPM

Water Level: 65' from surface

Date Analyzed: 1-11-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 1 ml 3550x6.7 = 23,785

XC:Paul Hamilt on
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OIL CONSERVATION DIVISION
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WATER ANALYSIS

Well Ownership: HAMILTON OBSERVATION WELL Well No. 83

Land Status: State Federal Fee

Well Location: Unit Letter , Section 24, T 11 S, R 32 E

Type Well: Observation well Depth 105 feet.

Well Use:

Sample Number: 1

Date Taken: 12-2-81

Taken By: Eddie W. Seay

Specific Conductance: m/cm

Total dissolved Solids: PPM.

Chlorides: 23,430 PPM.

Sulfates: PPM.

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

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

 :

Date Analyzed: 12-3-81

By: Eddie W. Seay
Oil Conservation Division

Water level: 65 ft. from surface

REMARKS: 1 ml 3550 x 6.6 = 23,430 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

Well Ownership: HAMILTON OBSERVATION WELL Well No. 000

Land Status: State Federal Fee

Well Location: Unit Letter , Section 24, T 11 S, R 32 E

Type Well: Observation well Depth 105 feet.

Well Use:

Sample Number: 1 Date Taken: 11-25-81

Taken By: Eddie Seay

Specific Conductance: m/c

Total dissolved Solids: PPM.

Chlorides: 23,430 PPM.

Sulfates: PPM.

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

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

 :

Date Analyzed: 12-3-81

By: Eddie Seay
Oil Conservation Division

Water level: 65 ft. from surface

REMARKS: 1 ml 3550 x 6.6 = 23,430 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

Well Ownership: HAMILTON -- OBSERVATION WELL Well No. 03

Land Status: State Federal Fee

Well Location: Unit Letter , Section 24, T 11 S, R 32 E

Type Well: Observation well Depth 105 feet.

Well Use:

Sample Number: 2

Date Taken: 11-18-81

Taken By: Eddie W. Seay

Specific Conductance: m/

Total dissolved Solids: PPM.

Chlorides: 23,785 PPM.

Sulfates: PPM.

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

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

 :

Date Analyzed: 12-3-81

By: Eddie W. Seay
Oil Conservation Division

Water level: 65 ft from surface

REMARKS: 1 ml 3550 x 6.7 = 23,785 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton Ob Well WELL NO. OB

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Observation Depth 105 feet

Well Use:

Sample Number: 1

Date Taken: 11-12-81

Taken By: Eddie W. Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 22365 PPM

Sulfates: PPM

Water Level: 64 from surface

Date Analyzed: 11-16-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 6.3 = 22365 ppm

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ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton OB Well WELL NO. OB Well

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Observation Well Depth 105 feet

Well Use:

Sample Number: 1

Date Taken: 10-29-81

Taken By:

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 23075 PPM

Sulfates: PPM

Water Level: 64ft from surface

Date Analyzed: 11-16-81

By: Eddie W. Gray
Oil Conservation Division

REMARKS: 1 ml Sample 3550 x 6.5 = 23075 ppm

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ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton OB Well WELL NO. _____

LAND STATUS: State _____ Federal _____ Fee _____

WELL LOCATION: Unit Letter _____, Section 24, T. 11 S, R 32 E

Top H₂O - 64 ft.

Type well: Observation well Depth 105 feet

Well Use: _____

Sample Number: 1

Date Taken: 10-22-81

Taken By: Eddie W. Seay

Specific Conductance: _____ m/

Total Dissolved Solids _____ PPM

Chlorides: 22,720 PPM

Sulfates: _____ PPM

Water Level: 64ft from surface

Date Analyzed: 10-27-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 6.4 = 22,720 ppm

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WATER ANALYSIS

WELL OWNERSHIP: Hamilton Observation Well WELL NO. _____

LAND STATUS: State _____ Federal _____ Fee _____

WELL LOCATION: Unit Letter _____, Section 24, T 11 S, R 32 E

Type well: Observation Well Depth 105 feet

Well Use: _____

Sample Number: 1

Date Taken: 10-15-81

Taken By: Eddie W. Seay

Specific Conductance: _____ m/cm

Total Dissolved Solids _____ PPM

Chlorides: 22010 PPM

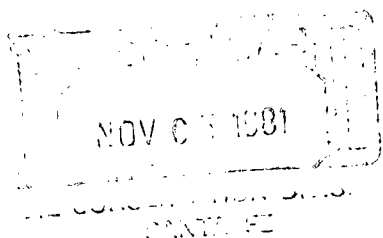
Sulfates: _____ PPM

Water Level: 64ft from surface

Date Analyzed: 10-27-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 6.2 = 22010 ppm



Supervisor, District I

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REMARKS: 1ml 3550 x 6.3 = 22365 ppm

WATER ANALYSIS

REMARKS: 1 ml 3550 X 5.2 = 18,460 ppm

OIL CONSERVATION DIVISION
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REMARKS: 1 ml sample $3550 \times 6.5 = 23,075$ ppm



ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton Abandon Water Well WELL NO. _____

LAND STATUS: State X Federal _____ Fee _____

WELL LOCATION: Unit Letter D, Section 24, T 11 S, R 32 E

Abandon water well N/W Hamilton House

Type well: Water Well Depth 120 feet

Well Use: _____

Sample Number: _____ Date Taken: 2-16-82

Taken By: Eddie Seay

Specific Conductance: _____ m/

Total Dissolved Solids _____ PPM

Chlorides: 241.4 PPM

Sulfates: _____ PPM

Water level: 65 from surface

Date Analyzed: 2-16-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142 x 1.7 = 241.4 ppm

FEB 18 1982
OIL CONSERVATION DIVISION
SANTA FE

XC; Paul Hamilton
Texaco, Inc.
Oscar Simpson-OCD-Santa Fe
File

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton Abandon Water Well WELL NO. _____

LAND STATUS: State _____ Federal _____ Fee x

WELL LOCATION: Unit Letter _____, Section _____, T. _____ S, R _____ E

Abandon water well N/W Hamilton House

Type well: Water well Depth 120 feet

Well Use: _____

Sample Number: _____

Date Taken: 2-12-82

Taken By: Eddie Seay

Specific Conductance: _____ m/

Total Dissolved Solids _____ PPM

Chlorides: 241.4 PPM

Sulfates: _____ PPM

Water Level: 65 from surface

Date Analyzed: 2-15-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml. 142. x 1.7 = 241.4

XC:Paul Hamilton
Texaco, Inc.

✓Oscar Simpson-OCD-Santa Fe
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Supervisor, District I

FILED 15 1982
OIL CONSERVATION DIVISION
SANTA FE

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

*Corrected
copy*

WATER ANALYSIS

WELL OWNERSHIP: Hamilton Abandon Water Well WELL NO. _____

LAND STATUS: State _____ Federal _____ Fee _____

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

Abandon water well N/W corner Hamilton House

Type well: Water Well Depth _____ feet

Well Use: _____

Sample Number: _____

Date Taken: ²⁻⁸⁻⁸²
2-12-82

Taken By: Eddie Seay

Specific Conductance: _____ m/_____

Total Dissolved Solids _____ PPM

Chlorides: 227.2 PPM

Sulfates: _____ PPM

Water level: 65 from surface

Date Analyzed: 2-15-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 25 ml 142 x 1.6= 227.2 ppm

XC:Paul Hamilton
Texaco, Inc.

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FEB 10 1982

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton Abandon Water Well WELL NO. _____

LAND STATUS: State x Federal _____ Fee _____

WELL LOCATION: Unit Letter _____, Section 24, T 11 S, R 32 E

N/W of Hamilton House

Type well: Water Well Depth 120 feet

Well Use: _____

Sample Number: 1

Date Taken: 1-28-82

Taken By: Eddie Seay

Specific Conductance: _____ m/

Total Dissolved Solids _____ PPM

Chlorides: _____ PPM

Sulfates: 255.6 PPM

Water Level: 64 from surface

Date Analyzed: 2-4-82

By: Eddie Seay
Oil Conservation Division

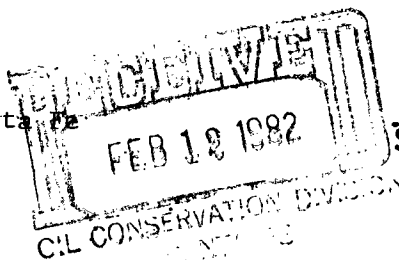
REMARKS: 25 ml 142 x 1.8 = 255.6

XC:Paul Hamilton

Texaco, Inc.

~~Oscar Simpson-OCD-Santa Fe~~

File



Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton Water Well WELL NO. _____

LAND STATUS: State _____ Federal _____ Fee _____

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

Abandon water well N/W of Hamilton house

Type well: water well Depth 120 feet

Well Use: _____

Sample Number: _____

Date Taken: 1-22-82

Taken By: Eddie Seay

Specific Conductance: _____ m/

Total Dissolved Solids _____ PPM

Chlorides: 241.4 PPM

Sulfates: _____ PPM

Water Level: 65' from surface

Date Analyzed: 1-26-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 25 ml 142 x 1.7= 241.4 ppm

cc:Paul Hamilton

Texaco

Oscar Simpson-OCD Santa Fe

File

Supervisor, District I

FEB 01 1982.

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HOBBS, NM

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton WELL NO. Water Well

LAND STATUS: State _____ Federal _____ Fee _____

WELL LOCATION: Unit Letter _____, Section 24, T 11 S, R 32 E

Abandon water well N/W of Hamilton House

Type well: water well Depth 125 feet

Well Use: _____

Sample Number: _____

Date Taken: 12-17-81

Taken By: Eddie Seay

Specific Conductance: _____ m/

Total Dissolved Solids _____ PPM

Chlorides: 227.2 PPM

Sulfates: _____ PPM

Water Level: 67' from surface

Date Analyzed: 1-11-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 25 ml 142 x 1.6 = 227.2

XC:Paul Hamilton

Texaco Inc.

Oscar Simpson-OCD-Santa Fe

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Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. 8

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 23, T 11 S, R 32 E

South of Amerada battery

Type well: abandon monitor well Depth 71 feet

Well Use:

Sample Number:

Date Taken: 1-22-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 1420 PPM

Sulfates: PPM

Water level: 61 from surface

Date Analyzed: 1-26-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x .4= 1420 ppm

cc: Paul Hamilton

Texaco

Oscar Simpson-OCD Santa Fe

File

Supervisor, District I

FEB 01 1982

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. 11

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 23, T 11 S, R 32 E

South of Amerada battery

Type well: Abandon monitor well Depth 74 feet

Well Use:

Sample Number:

Date Taken: 1-22-82

Taken By: Eddie Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 142 PPM

Sulfates: PPM

Water Level: 61 from surface

Date Analyzed: 1-26-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 10 ml 355 x .4= 142ppm

cc:Paul Hamilton

Texaco

Oscar Simpson-OCD Santa Fe

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OIL CONSERVATION DIVISION



ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton Texaco WELL NO. SWD Storage

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 13, T 11 S, R 32 E
Texaco SWD Battery Water Storage

Type well: Depth feet

Well Use:

Sample Number: 1

Date Taken: 11-5-81

Taken By: A.A. Plattsmier

Specific Conductance: m/—

Total Dissolved Solids PPM

Chlorides: 25205 PPM

Sulfates: PPM

Water Level: from surface

Date Analyzed: 11-16-81

By: Eddie W. [Signature]
Oil Conservation Division

REMARKS: 1 ml 3550 x 7.1 = 25205

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

Well Ownership: TEXACO Well No. SWD System

Land Status: State Federal Fee

Well Location: Unit Letter M, Section 13, T 11 S, R 32 E

Sample taken from storage

Type Well: SWD water storage Depth feet.

Well Use:

Sample Number: 1

Date Taken: 8-10-81

Taken By: Eddie Seay

Specific Conductance: m/

Total dissolved Solids: PPM.

Chlorides: 24,850 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: 1ml 3550 x 7.0 = 24,850

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

Well Ownership: Texaco Well No. SWD water

Land Status: State Federal Fee

Well Location: Unit Letter M, Section 13, T 11 S, R 32 E

sample taken from storage tank

Type Well: SWD water storage Depth feet.

Well Use:

Sample Number: 1

Date Taken: 6-29-81

Taken By: A.A. Plattsmier

Specific Conductance: m/

Total dissolved Solids: PPM.

Chlorides: 23,075 PPM.

Sulfates: PPM.

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

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

 :

Date Analyzed: 8-4-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 350 X 6.5 = 23,075 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
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WATER ANALYSIS

WELL OWNERSHIP: Texaco SWD WELL NO. Bo-3

LAND STATUS: State X Federal _____ Fee _____

WELL LOCATION: Unit Letter D, Section 24, T. 11 S, R 32 E

Type well: Salt Water Disposal Well Depth _____ feet

Well Use: _____

Sample Number: _____

Date Taken: 2-16-82

Taken By: Eddie Seay

Specific Conductance: _____ m/

Total Dissolved Solids _____ PPM

Chlorides: 25,205 PPM

Sulfates: _____ PPM

Water Level: _____ from surface

Date Analyzed: 2-16-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550x 7.1=25,205

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HOBBS, NM

XC: Paul Hamilton
Texaco, Inc.
Oscar Simpson-OCD-Santa Fe ✓
File

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ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco SWD WELL NO. BO-3

LAND STATUS: State X Federal _____ Fee _____

WELL LOCATION: Unit Letter D, Section 24, T. 11 S, R 32 E

Type well: Salt Water Disposal Depth _____ feet

Well Use: _____

Sample Number: _____ Date Taken: 2-16-82

Taken By: Eddie Seay

Specific Conductance: _____ m/cm

Total Dissolved Solids _____ PPM

Chlorides: 7100 PPM

Sulfates: _____ PPM

Water Level: _____ from surface

Date Analyzed: 2-16-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 2.0= 7100 ppm

Back side of casing loaded with pkr. fluid-Slight tubing on pkr. leak

XC:Paul Hamilton
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OIL CONSERVATION DIVISION
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WATER ANALYSIS

WELL OWNERSHIP: Texaco SWD WELL NO. BO-3
LAND STATUS: State X Federal Fee
WELL LOCATION: Unit Letter D, Section 24, T 11 S, R 32 E

Type well: Salt Water Disposal Well Depth feet

Well Use:

Sample Number: Date Taken: 2-8-82
2-12-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 24850 PPM

Sulfates: PPM

Water level: from surface

Date Analyzed: 2-15-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 7.0 = 24,850 ppm

XC:Paul Hamilton
Texaco, Inc.

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SANTA FE

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OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco SWD WELL NO. BO-3

LAND STATUS: State x Federal _____ Fee _____

WELL LOCATION: Unit Letter D, Section 24, T 11 S, R 32 E

Type well: Salt Water Disposal Depth _____ feet

Well Use: _____

Sample Number: _____

Date Taken: 1-28-82

Taken By: Eddie Seay

Specific Conductance: _____ m/

Total Dissolved Solids _____ PPM

Chlorides: 25205 PPM

Sulfates: _____ PPM

Water Level: _____ from surface

Date Analyzed: 2-4-82

By: Eddie Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 7.1 = 25,205 ppm

XC:Paul Hamilton

Texaco, Inc.

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FEB 13 1982

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco SWD well WELL NO. N.M. BO #3

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter D, Section 24, T 11 S, R 32 E

Type well: Salt Water Disposal well Depth feet

Well Use:

Sample Number:

Date Taken: 1-22-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 25,915 PPM

Sulfates: PPM

Water Level: from surface

Date Analyzed: 1-26-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 7.3= 25,915 ppm

cc: Paul Hamilton

Texaco

Oscar Simpson-OCD Santa Fe

File

Supervisor, District I

01 1532
OIL CONSERVATION DIVISION

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS.

WELL OWNERSHIP: Texaco SWD WELL NO. N.M. BO #3

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Salt Water Disposal Depth feet

Well Use:

Sample Number:

Date Taken: 1-5-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 25915 PPM

Sulfates: PPM

Water level: from surface

Date Analyzed: 1-11-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 7.3=25915

Xc:Paul Hamilton
Texaco Inc.
Oscar Simpson-OCD-Santa Fe
File

Supervisor, District 1

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco SWD WELL NO. N.M. BO#3

LAND STATUS: State _____ Federal _____ Fee _____

WELL LOCATION: Unit Letter _____, Section 24, T 11 S, R 32 E

Type well: Monitor Depth _____ feet

Well Use: _____

Sample Number: _____

Date Taken: 12-23-81

Taken By: Eddie Seay

Specific Conductance: _____ m/cm

Total Dissolved Solids _____ PPM

Chlorides: 25,205 PPM

Sulfates: _____ PPM

Water Level: _____ from surface

Date Analyzed: 1-11-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 7.1 = 25205

XC: Paul Hamilton
Texaco Inc.
Oscar Simpson-OCD-Santa Fe
File

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco SWD WELL NO. N.M. BO #3

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T. 11S, R 32 E

water from storage battery

Type well: Salt Water Disposal Depth feet

Well Use:

Sample Number:

Date Taken: 12-17-81

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 25,915 PPM

Sulfates: PPM

Water level: from surface

Date Analyzed: 1-11-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 7.3= 25,915

XC:Paul Hamilton
Texaco Inc.
Oscar Simpson-OCD-Sante Fe
File

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco (SWD) WELL NO. N.M. BO #3

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Salt Water Disposal Depth feet

Well Use:

Sample Number:

Date Taken: 12-10-81

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 25560 PPM

Sulfates: PPM

Water Level: from surface

Date Analyzed: 1-11-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 7.2 = 25560

XC:Paul Hamilton
Texaco Inc.
Oscar Simpson-OCD-Santa Fe
File

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

Well Ownership: TEXACO INC. SWD WELL Well No. BO #3

Land Status: State Federal Fee

Well Location: Unit Letter , Section 24, T 11 S, R 32 E

Type Well: Salt Water Disposal Depth feet.

Well Use:

Sample Number: 1

Date Taken: 12-2-81

Taken By: Eddie W. Seay

Specific Conductance: m/Λ

Total dissolved Solids: PPM.

Chlorides: 24,850 PPM.

Sulfates: PPM.

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

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

 :

Date Analyzed: 12-3-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 7.0 = 24,850 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

Well Ownership: TEXACO INC. SWD WELL Well No. BO-3

Land Status: State Federal Fee

Well Location: Unit Letter , Section 24, T 11 S, R 32 E

Type Well: salt water disposal Depth feet.

Well Use:

Sample Number: 1

Date Taken: 11-25-81

Taken By: Eddie W. Seay

Specific Conductance: m/cm

Total dissolved Solids: PPM.

Chlorides: 25,205 PPM.

Sulfates: PPM.

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

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

 :

Date Analyzed: 12-3-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 7.1 = 25,205 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

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OIL CONSERVATION
SANTA FE
VISION

WATER ANALYSIS

Well Ownership: TEXACO SWD WELL Well No. B0-3

Land Status: State Federal Fee

Well Location: Unit Letter , Section 24, T 11 S, R 32 E

Type Well: salt water disposal Depth feet.

Well Use:

Sample Number: 1

Date Taken: 11-18-81

Taken By: Eddie W. Seay

Specific Conductance: m/

Total dissolved Solids: PPM.

Chlorides: 25,205 PPM.

Sulfates: PPM.

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

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

Date Analyzed: 12-3-81

By: Eddie W. Seay
Oil Conservation Division

Water Level:

REMARKS: 1 ml 3550 x 7.1 = 25,205 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco SWD WELL NO. BO-3

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T. 11 S, R 32 E

Type well: Salt Water Disposal Depth feet

Well Use: Dispose of produced water

Sample Number: 1

Date Taken: 10-22-81

Taken By: Eddie W. Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 23785 PPM

Sulfates: PPM

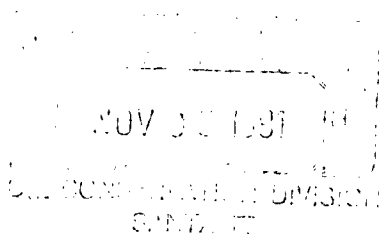
Water Level: from surface

Date Analyzed: 10-27-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 6.7 = 23,785 ppm

Supervisor, District 1



ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco SWD Well WELL NO. BO-3

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter D, Section 24, T 11 S, R 32 E

Type well: Salt Water Disposal Well Depth feet

Well Use: Dispose of produced water

Sample Number: 1

Date Taken: 10-15-81

Taken By: Eddie W. Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 23430 PPM

Sulfates: PPM

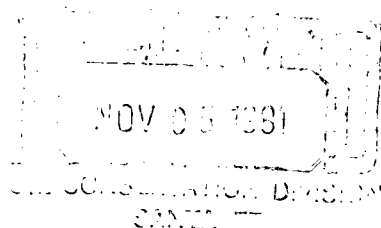
Water Level: from surface

Date Analyzed: 10-27-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 6.6 = 23430 ppm

Supervisor, District I



ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

OIL CONSERVATION DIVISION

MAY 08 1981

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WATER ANALYSIS

Well Ownership: TEXACO INC. Well No. BO #3 SWD water

Land Status: State Federal Fee

Well Location: Unit Letter M, Section 13, T 11 S, R 32 E

sample taken from storage tank at BO #3 SWD system

Type Well: SWD water storage Depth feet.

Well Use: disposal system

Sample Number: 1

Date Taken: 4-30-81

Taken By: Eddie Seay

Specific Conductance: m/

Total dissolved Solids: PPM.

Chlorides: 26,270 PPM.

Sulfates: PPM.

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

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

Date Analyzed: 5-5-81

By:

Leslie A. Clement
Oil Conservation Division

REMARKS: 1 ml sample 3550 x 7.4 = 26,270 ppm

WATER ANALYSIS

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

Well Ownership: TEXACO Well No. M

Land Status: State X Federal Fee

Well Location: Unit Letter D, Section 24, T 11 S, R 32 E

654.1/N & 692.9/W new drill red beds 108 ft -- TD 110 ft.

Type Well: water well Depth 65 feet.

Well Use: Monitor

Sample Number: 1

Date Taken: 1-22-82

Taken By: Eddie Seay

Specific Conductance: m/~

Total dissolved Solids: PPM.

Chlorides: 177.5 PPM. (Corrected Analysis)

Sulfates: PPM.

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

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

Date Analyzed: 1-26-82

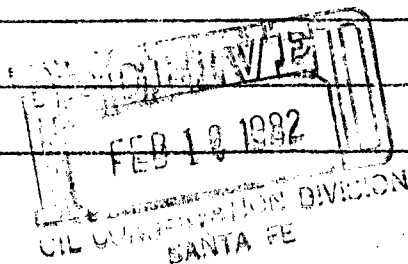
By: Eddie W. Seay
Oil Conservation Division

REMARKS: Water level: 63 ft.

10 ml 355 x 5 = 177.5 ppm (corrected analysis)

cc: Texaco Inc.
Paul Hamilton

Oscar Simpson - OCD Santa Fe
File



ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. M

LAND STATUS: State X Federal Fee

WELL LOCATION: Unit Letter D, Section 24, T 11 S, R 32 E

654.1 and 692.9/E New drill Red Bed 108' -TD 110'

Type well: Water Well Depth 65 feet

Well Use: Monitor

Sample Number: 1

Date Taken: 1-22-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 1065 PPM

Sulfates: PPM

Water Level: 63' from surface

Date Analyzed: 1-26-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x .3 = 1065 ppm

cc: Paul Hamilton

Texaco

Oscar Simpson-OCD Santa Fe
File

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBBS, NEW MEXICO

*Corrected
copy*

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. M

LAND STATUS: State X Federal _____ Fee _____

WELL LOCATION: Unit Letter D, Section 24, T. 11 S, R 32 E

Type well: Monitor well Depth 66 feet

Well Use: _____

Sample Number: 1

Date Taken: 2-8-82
2-12-82

Taken By: Eddie Seay

Specific Conductance: _____ m/

Total Dissolved Solids _____ PPM

Chlorides: 142 PPM

Sulfates: _____ PPM

Water Level: 64 from surface

Date Analyzed: 2-15-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 10 ml 355 x .4 = 142 ppm

XC:Paul Hamilton

Texaco, Inc.

Oscar Simpson-OCD-Santa Fe

File

Supervisor, District I

FEB 28 1982

OIL CONSERVATION DIVISION



ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. M

LAND STATUS: State X Federal Fee

WELL LOCATION: Unit Letter D, Section 24, T. 11 S, R 32 E

Type well: Moniter Well Depth 87 feet

Well Use:

Sample Number: 2

Date Taken: 2-16-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 213 PPM

Sulfates: PPM

Water level: 63 from surface

Date Analyzed: 2-16-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 10 ml 355 x .6= 213 ppm

XC; Paul Hamilton
Texaco, Inc.
Oscar Simpson-OCD-Santa Fe
File

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. M

LAND STATUS: State X Federal _____ Fee _____

WELL LOCATION: Unit Letter D, Section 24, T 11 S, R 32 E

Type well: Monitor well Depth 87 feet

Well Use: _____

Sample Number: 2

Date Taken: 2-12-82

Taken By: Eddie Seay

Specific Conductance: _____ m/~ ..

Total Dissolved Solids _____ PPM

Chlorides: 177.5 PPM

Sulfates: _____ PPM

Water level: 64 from surface

Date Analyzed: 2-15-82

By: Eddie W. Seay
Oil Conservation Division

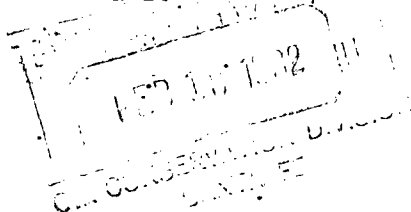
REMARKS: 10 ml 355 x .5= 177.5 ppm

XC:Paul Hamilton

Texaco, Inc.

Oscar Simpson-OCD-Santa Fe.
File

Supervisor, District I



ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

Corrected
Copy

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. M

LAND STATUS: State X Federal Fee

WELL LOCATION: Unit Letter D, Section 24, T. 11 S. R. 32 E

Type well: Monitor well Depth 87 feet

Well Use:

Sample Number: 2

Date Taken: 2-8-82
~~2-12-82~~

Taken By: Eddie Seay

Specific Conductance: m/ ..

Total Dissolved Solids PPM

Chlorides: 177.5 PPM

Sulfates: PPM

Water Level: 64 from surface

Date Analyzed: 2-15-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 10 ml 355 x .5 = 177.5 ppm

XC:Paul Hamilton

Texaco, Inc.

Oscar Simpson-OCD-Santa Fe.

File

Supervisor, District I

FEB 15 1982

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. M

LAND STATUS: State X Federal Fee

WELL LOCATION: Unit Letter D, Section 24, T 11 S, R 32 E

654.1 and 692.9/E New drill Red Bed 108' -TD 110'

Type well: Water Well Depth 87 feet

Well Use: Monitor

Sample Number: 2

Date Taken: 1-22-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 2840 PPM

Sulfates: PPM

Water Level: 63' from surface

Date Analyzed: 1-26-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x .8 = 2840

153.01 1032
OIL CONSERVATION DIVISION
cc: Paul Hamilton
Texaco
Oscar Simpson-OCD Santa Fe
File

Supervisor, District 1

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. M

LAND STATUS: State X Federal Fee

WELL LOCATION: Unit Letter D, Section 24, T 11 S, R 32 E

Type well: Moniter Well Depth 105 feet

Well Use:

Sample Number: 3

Date Taken: 2-16-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 12,425 PPM

Sulfates: PPM

Water Level: 63 from surface

Date Analyzed: 2-16-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 3.5 = 12,425 ppm

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OIL CONSERVATION DIVISION
SANTA FE

XC; Paul Hamilton
Texaco, Inc.
Oscar Simpson-OCD-Santa Fe
File

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. M

LAND STATUS: State X Federal Fee

WELL LOCATION: Unit Letter D, Section 24, T 11 S, R 32 E

Type well: Moniter well Depth 105 feet

Well Use:

Sample Number: 3

Date Taken: 2-12-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 14,910 PPM

Sulfates: PPM

Water level: 64 from surface

Date Analyzed: 2-15-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 4.2= 14,910 ppm

XC:Paul Hamilton

Texaco, Inc.

✓Oscar Simpson-OCD-Santa Fe
File

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

*Corrected
copy*

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. M

LAND STATUS: State X Federal Fee

WELL LOCATION: Unit Letter D, Section 24, T. 11 S, R 32 E

Type well: Monitor well Depth 105 feet

Well Use:

Sample Number: 3

Date Taken: 2-8-82
2-12-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 13,845 PPM

Sulfates: PPM

Water level: 64 from surface

Date Analyzed: 2-15-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 3.9 = 13,845

XC:Paul Hamilton
Texaco, Inc.

Oscar Simpson-OCD-Santa Fe
File

Supervisor, District I

REC'D 10 10 82

UNCLASSIFIED
DATE 11/10/01

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. M

LAND STATUS: State x Federal Fee

WELL LOCATION: Unit Letter D, Section 24, T 11 S, R 32 E

Type well: Monitor well Depth 105 feet

Well Use:

Sample Number: 1

Date Taken: 1-28-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 16,685 PPM

Sulfates: PPM

Water Level: 64 from surface

Date Analyzed: 2-3-82

By: Eddie Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 4.7 = 16,685ppm

XC: Paul Hamilton
FEB 13 1982
Texaco, Inc.
Oscar Simpson-OCd-Sante Fe
File
OIL CONSERVATION

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. M

LAND STATUS: State X Federal _____ Fee _____

WELL LOCATION: Unit Letter D, Section 24, T 11 S, R 32 E

654.1 and 692.9/E New drill Red Bed 108' -TD 110'

Type well: Water Well Depth 105 feet

Well Use: Monitor

Sample Number: 3

Date Taken: 1-22-82

Taken By: Eddie Seay

Specific Conductance: _____ m/

Total Dissolved Solids _____ PPM

Chlorides: 11,715 PPM

Sulfates: _____ PPM

Water Level: 63' from surface

Date Analyzed: 1-26-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 3.3= 11, 715 ppm

cc: Paul Hamilton

Texaco

Oscar Simpson-OCD Santa Fe
File

Supervisor, District I



ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. M

LAND STATUS: State X Federal Fee

WELL LOCATION: Unit Letter D, Section 24, T 11 S, R 32 E

654.1 and 692.9/E New drill Red Bed 108' -TD 110'

Type well: Water Well Depth 110 feet

Well Use: Monitor

Sample Number: 9

Date Taken: 1-21-82

Taken By: Eddie Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 4615 PPM

Sulfates: PPM

Water Level: from surface

Date Analyzed: 1-26-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 1.3 +4615 ppm

Pump set at 98 ft. + Time 4:00 pm

cc: Paul Hamilton

Texaco

Oscar Simpson-OCD Santa Fe
File

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. M

LAND STATUS: State X Federal _____ Fee _____

WELL LOCATION: Unit Letter D, Section 24, T 11 S, R 32 E

654.1 and 692.9/E New drill Red Bed 108' -TD 110'

Type well: Water Well Depth 110 feet

Well Use: Monitor

Sample Number: 8

Date Taken: 1-21-82

Taken By: Eddie Seay

Specific Conductance: _____ m/~

Total Dissolved Solids _____ PPM

Chlorides: 4615 PPM

Sulfates: _____ PPM

Water Level: _____ from surface

Date Analyzed: 1-26-82

By: Eddie Seay
Oil Conservation Division

REMARKS: 1 ml 3550 X 1.3+ 4615 ppm

Pump set at 98 ft. + Time 3:25 pm

cc:Paul Hamilton

Texaco

Oscar Simpson-OCD Santa Fe

Supervisor, District I

423 01 1032

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. M

LAND STATUS: State X Federal Fee

WELL LOCATION: Unit Letter D, Section 24, T 11 S, R 32 E

654.1 and 692.9/E New drill Red Bed 108' -TD 110'

Type well: Water Well Depth 110 feet

Well Use: Monitor

Sample Number: 7

Date Taken: 1-21-82

Taken By: Eddie Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 4615 PPM

Sulfates: PPM

Water Level: from surface

Date Analyzed: 1-26-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 1 ml 3550 X 1.3=4615 ppm

Pump set at 98 ft.+ Time 2:40 pm

cc:Paul Hamilton
Texaco

Oscar Simpson-OCD Santa Fe

File 1117

Supervisor, District 1

FEB 01 1982

OIL CONSERVATION DIVISION

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. M

LAND STATUS: State X Federal Fee

WELL LOCATION: Unit Letter D, Section 24, T. 11 S, R 32 E

654.1 and 692.9/E New drill Red Bed 108' -TD 110'

Type well: Water Well Depth 110 feet

Well Use: Moniter

Sample Number: 6

Date Taken: 1-21-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 4615 PPM

Sulfates: PPM

Water Level: from surface

Date Analyzed: 1-26-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 1 ml 3550 X1.3 = 4615ppm

Pump set at 98 ft. ± Time 12:45 pm

cc:Paul Hamilton
Texaco

Oscar Simpson-OCD Santa Fe

File

FEB 01 1982

OIL CONSERVATION DIVISION
HOBBS, NM

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. M

LAND STATUS: State X Federal Fee

WELL LOCATION: Unit Letter D, Section 24, T 11 S, R 32 E

654.1 and 692.9/E New drill Red Bed 108' -TD 110'

Type well: Water Well Depth 110 feet

Well Use: Monitor

Sample Number: 5

Date Taken: 1-21-82

Taken By: Eddie Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 3905 PPM

Sulfates: PPM

Water Level: from surface

Date Analyzed: 1-26-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 1.1 = 3905 ppm

Pump set at 98 ft. $\pm$ Time 11:35 am

cc: Paul Hamilton
Texaco

Oscar Simpson-OCD Santa Fe

Supervisor, District I

FEB 01 1982

OIL CONSERVATION DIVISION
SANTA FE

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. M

LAND STATUS: State X Federal Fee

WELL LOCATION: Unit Letter D, Section 24, T 11 S, R 32 E

654.1 and 692.9/E New drill Red Bed 108' -TD 110'

Type well: Water Well Depth 110 feet

Well Use: Monitor

Sample Number: 4

Date Taken: 1-21-82

Taken By: Eddie Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 3550 PPM

Sulfates: PPM

Water Level: from surface

Date Analyzed: 1-21-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 1.0= 3550ppm

Pump set at 98 ft. ± Time 10:40 am

cc: Paul Hamilton
Texaco

Oscar Simpson-OCD Santa Fe

Supervisor, District 1

FEB 01 1982

OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. M

LAND STATUS: State X Federal Fee

WELL LOCATION: Unit Letter D, Section 24, T. 11 S, R 32 E

654.1 and 692.9/E New drill Red Bed 108' -TD 110'

Type well: Water Well Depth 110 feet

Well Use: Monitor

Sample Number: 3

Date Taken: 1-21-82

Taken By: Eddie Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 4615 PPM

Sulfates: PPM

Water Level: from surface

Date Analyzed: 1-26-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 1.3=4615 ppm

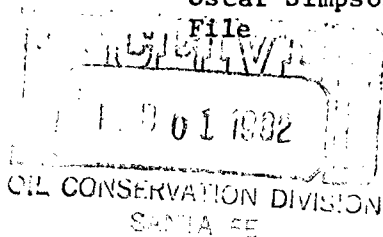
Pump set at 98 ft. + Time 9:30 am

cc:Paul Hamilton
Texaco

Oscar Simpson-OCD Santa Fe

File

Supervisor, District I



ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. M

LAND STATUS: State X Federal Fee

WELL LOCATION: Unit Letter D, Section 24, T 11 S, R 32 E

654.1 and 692.9/E New drill Red Bed 108' -TD 110'

Type well: Water Well Depth 110 feet

Well Use: Monitor

Sample Number:

Date Taken: 1-21-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 4260 PPM

Sulfates: PPM

Water Level: from surface

Date Analyzed: 1-26-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550X 1.2= 4260 ppm

Pump set at 98 ft.- Time: 8:40 am

cc:Paul Hamilton

Texaco

Oscar Simpson-OCD Santa Fe

File

FEB 01 1982

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. M

LAND STATUS: State X Federal Fee

WELL LOCATION: Unit Letter D, Section 24, T 11 S, R 32 E

654.1 and 692.9/E New drill Red Bed 108' -TD 110'

Type well: Water Well Depth 110 feet

Well Use: Monitor

Sample Number: Date Taken: 1-21-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 5325 PPM

Sulfates: PPM

Water Level: from surface

Date Analyzed: 1-26-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 1 ml 3550x 1.5=5325

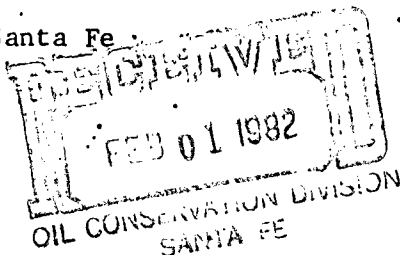
Pump set at 98 ft. + Time 8:12 am

cc:Paul Hamilton

Texaco

Oscar Simpson-OCD Santa Fe
File

Supervisor, District I





ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton - Texaco WELL NO. Swd Well

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Salt Water Disposal Well Depth feet

Well Use:

Sample Number: 1

Date Taken: 11-12-81

Taken By: Eddie W. Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 24140 PPM

Sulfates: PPM

Water Level: from surface

Date Analyzed: 11-16-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 6.8 = 24140 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton Texaco WELL NO. SWD Well

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Salt water disposal Depth feet

Well Use:

Sample Number: 1

Date Taken: 11-5-81

Taken By: A.A. Plattsmier

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 24495 PPM

Sulfates: PPM

Water level: from surface

Date Analyzed: 11-16-81

By: *[Signature]*
Oil Conservation Division

REMARKS: 1 ml 3550 x 6.9 = 24495 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton - Texaco WELL NO. SWD Well

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Salt Water Disposal Depth - feet

Well Use:

Sample Number: 1

Date Taken: 10-29-81

Taken By: Eddie W. Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 23785 PPM

Sulfates: PPM

Water Level: - from surface

Date Analyzed: 11-16-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 6.7 = 23785 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco SWD WELL NO. 3

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Salt Water Disposal Depth feet

Well Use:

Sample Number:

Date Taken: 1-8-82

Taken By: Eddie Seay

Specific Conductance: m/cm

Total Dissolved Solids PPM

Chlorides: 25560 PPM

Sulfates: PPM

Water level: from surface

Date Analyzed: 1-11-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 7.2 = 25560

XC:paul Hamilton
Texaco Inc.
Oscar Simpson -OCD-Santa Fe
File

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco SWD WELL NO. 3

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Salt Water Disposal Depth feet

Well Use:

Sample Number:

Date Taken: 12-31-81

Taken By: Eddie Saey

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 27335 PPM

Sulfates: PPM

Water Level: from surface

Date Analyzed: 1-11-82

By: Eddie W. Saey
Oil Conservation Division

REMARKS: 1 ml 3550 x 7.7 = 27,335

Xc:Paul Hamilton --
Texaco Inc.
Oscar Simpson-OCD Santa Fe
File

Supervisor, District I

SOUTHWESTERN LABORATORIES
FORT WORTH - DALLAS - HOUSTON - MIDLAND - BEAUMONT - TEXARKANA
**CONSULTING, ANALYTICAL CHEMISTS
AND TESTING ENGINEERS**

Midland Texas 11-17-80 File No. C-1902-W

Report of tests on Water

To V-F Petroleum, Inc.

Date Rec'd. 10-22-80

Received from

Identification Marks Lea County, New Mexico, Dean Field, Alexander Lease, Sample of Arco State #1, Water flow at well, 10-17-80, Sampled by V. F. Vasicek.

	<u>mg/L</u>
Calcium-----	4800
Magnesium-----	54167
Sodium (Calc.)-----	41936
Carbonate-----	None
Bicarbonate-----	717
Sulfate-----	9155
Chloride-----	224091
 Total Dissolved Solids (Evap. @ 180° C.)-----	 328500
Total Hardness (As CaCO ₃)-----	235083

3cc V-F Petroleum, Inc.
1cc Ed L. Reed & Assoc.
1cc Oil & Gas Commission, Hobbs, New Mexico

Lab. No. 31872

SOUTHWESTERN LABORATORIES

Jack H. Baiter

RECEIVED
OCT 22 1980
SANTA FE, N.M.

SOUTHWESTERN LABORATORIES
FORT WORTH - DALLAS - HOUSTON - MIDLAND - BEAUMONT - TEXARKANA
CONSULTING, ANALYTICAL CHEMISTS
AND TESTING ENGINEERS

Midland Texas 11-17-80 File No. C-1902-W

Report of tests on Water

To V-F Petroleum, Inc.

Date Rec'd. 10-22-80

Received from

Identification Marks Lea County, New Mexico, Landis Rig No. 2, Dean Field, Alexander Lease,
3:35 PM, 10-15-80, Sampled by J. I. Dooley.

	<u>mg/L</u>
Calcium-----	143
Magnesium-----	22
Sodium (Calc.)-----	70
Carbonate-----	None
Bicarbonate-----	332
Sulfate-----	182
Chloride-----	99
Total Dissolved Solids (Evap. @ 180° C.)—	778
Total Hardness (As CaCO ₃)-----	450

RECEIVED
OCT 23 1980
OIL & GAS COMMISSION

3cc V-F Petroleum, Midland
1cc Ed L. Reed & Assoc.
1cc Oil & Gas Commission, Hobbs, New Mexico
Lab. No. 31858

SOUTHWESTERN LABORATORIES

Jack H. Barton

SOUTHWESTERN LABORATORIES
FORT WORTH - DALLAS - HOUSTON - MIDLAND - BEAUMONT - TEXARKANA
CONSULTING, ANALYTICAL CHEMISTS
AND TESTING ENGINEERS

Midland Texas 11-17-80 File No. C-1902-W

Report of tests on Water

To V-F Petroleum, Inc.

Date Rec'd. 10-22-80

Received from

Identification Marks Lea County, New Mexico, Landis Rig No. 2, Dean Field, Alexander Lease, 3:45 PM, 10-15-80, Sampled by J. I. Dooley.

	<u>mg/L</u>
Sulfate_____	176
Chloride_____	92
Total Dissolved Solids (Evap. @ 180° C.)_____	758

RECEIVED
OCT 23 1980
SOUTHWESTERN LABORATORIES

3cc V-F Petroleum, Inc.
1cc Ed L. Reed & Associates
1cc Oil & Gas Commission, Hobbs, New Mexico
Lab. No. 31859

SOUTHWESTERN LABORATORIES

Jack H. Barton

SOUTHWESTERN LABORATORIES
FORT WORTH - DALLAS - HOUSTON - MIDLAND - BEAUMONT - TEXARKANA
CONSULTING, ANALYTICAL CHEMISTS
AND TESTING ENGINEERS

Midland Texas 11-17-80 File No. C-1902-W

Report of tests on Water

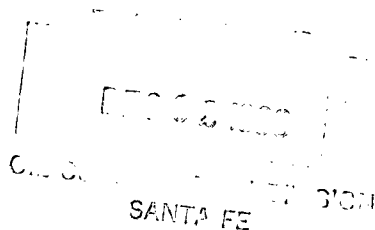
To V-F Petroleum, Inc.

Date Rec'd. 10-22-80

Received from

Identification Marks Lea County, New Mexico, Landis Rig No. 2, Dean Field, Alexander
Lease, 3:55 PM, 10-15-80, Sampled by J. I. Dooley.

	<u>mg/L</u>
Sulfate-----	311
Chloride-----	99
Total Dissolved Solids (Evap. @ 180° C.)----	766



3cc V-F Petroleum, Inc.
1cc Ed L. Reed & Associates
1cc Oil & Gas Commission, Hobbs, New Mexico

SOUTHWESTERN LABORATORIES

Jack H. Barton

Lab. No. 31860

SOUTHWESTERN LABORATORIES
FORT WORTH - DALLAS - HOUSTON - MIDLAND - BEAUMONT - TEXARKANA
CONSULTING, ANALYTICAL CHEMISTS
AND TESTING ENGINEERS

Midland Texas 11-17-80 File No. C-1902-W

Report of tests on Water

To V-F Petroleum, Inc.

Date Rec'd. 10-22-80

Received from

Identification Marks Lea County, New Mexico, Landis Rig No. 2, Dean Field, Alexander Lease,
Water well for drilling Arco State #1, 4:30 PM, 10-15-80, Sampled
by J. I. Dooley.

	<u>mg/L</u>
Sulfate-----	156
Chloride-----	99
Total Dissolved Solids (Evap. @ 180° C.)----	754

RECEIVED
OCT 23 1980
C. L. S. S. L. F. R. L. H.

3cc V-F Petroleum, Inc.
1cc Ed L. Reed & Assoc.
1cc Oil & Gas Commission, Hobbs, New Mexico

Lab. No. 31861

SOUTHWESTERN LABORATORIES

Jack H. Barton

SOUTHWESTERN LABORATORIES
FORT WORTH - DALLAS - HOUSTON - MIDLAND - BEAUMONT - TEXARKANA
CONSULTING, ANALYTICAL CHEMISTS
AND TESTING ENGINEERS

Midland Texas 11-17-80 File No. C-1902-W

Report of tests on Water

To V-F Petroleum, Inc.

Date Rec'd. 10-22-80

Received from

Identification Marks Lea County, New Mexico, Landis Rig No. 2, Dean Field, Alexander
Lease, 7:40 PM, 10-15-80, Well killed 7:45 PM, 10-15-80,
Sampled by J. I. Dooley.

	<u>mg/L</u>
Sulfate-----	161
Chloride-----	99
Total Dissolved Solids (Evap. @ 180° C.)-----	700

RECEIVED
OIL & GAS COMMISSION
SANTA FE

3cc V-F Petroleum, Inc.
1cc Ed L. Reed & Assoc.
1cc Oil & Gas Commission, Hobbs, New Mexico

SOUTHWESTERN LABORATORIES

Jack H. Barton

Lab. No. 31862

SOUTHWESTERN LABORATORIES
FORT WORTH - DALLAS - HOUSTON - MIDLAND - BEAUMONT - TEXARKANA
CONSULTING, ANALYTICAL CHEMISTS
AND TESTING ENGINEERS

Midland Texas 11-17-80 File No. C-1902-W

Report of tests on Water

To V-F Petroleum, Inc.

Date Rec'd. 10-22-80

Received from

Identification Marks Lea County, New Mexico, Landis Rig No. 2, Dean Field, Alexander Lease, 11:00 AM, 10-16-80, Sampled by J. I. Dooley

	<u>mg/L</u>
Calcium-----	130
Magnesium-----	21
Sodium (Calc.)-----	59
Carbonate-----	None
Bicarbonate-----	290
Sulfate-----	160
Chloride-----	95
 Total Dissolved Solids (Evap. @ 180° C.)-----	 684
Total Hardness (As CaCO ₃)-----	412

3cc V-F Petroleum, Inc.
1cc Ed L. Reed & Assoc.
1cc Oil & Gas Commission, Hobbs, New Mexico

Lab. No 31863

SOUTHWESTERN LABORATORIES

Jack H. Barton

SOUTHWESTERN LABORATORIES
FORT WORTH - DALLAS - HOUSTON - MIDLAND - BEAUMONT - TEXARKANA
**CONSULTING, ANALYTICAL CHEMISTS
AND TESTING ENGINEERS**

Midland Texas 11-17-80 File No. C-1902-W

Report of tests on Water

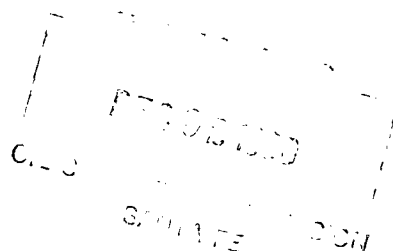
To V-F Petroleum, Inc.

Date Rec'd. 10-22-80

Received from

Identification Marks Lea County, New Mexico, Landis Rig No. 2, Dean Field, Alexander
Lease, Water to drill Arco State #1, 11:00 AM, 10-17-80,
Sampled by J. I. Dooley.

	<u>mg/L</u>
Sulfate-----	149
Chloride-----	96
Total Dissolved Solids (Evap. @ 180° C.)----	690



3cc V-F Petroleum, Inc.
1cc Ed L. Reed & Assoc.
1cc Oil & Gas Commission, Hobbs, New Mexico

SOUTHWESTERN LABORATORIES

Jack H. Banta

Lab. No. 31864

SOUTHWESTERN LABORATORIES
FORT WORTH - DALLAS - HOUSTON - MIDLAND - BEAUMONT - TEXARKANA
CONSULTING, ANALYTICAL CHEMISTS
AND TESTING ENGINEERS

Midland Texas 11-17-80 File No. C-1902-W

Report of tests on Water

To V-F Petroleum, Inc.

Date Rec'd. 10-22-80

Received from

Identification Marks Lea County, New Mexico, Landis Rig No. 2, Dean Field, Alexander
Lease, Water to drill Arco State #1, 4:00 PM, 10-17-80,
Sampled by J. I. Dooley.

	<u>mg/L</u>
Sulfate-----	165
Chloride-----	92
Total Dissolved Solids (Evap. @ 180° C.)---	680

RECEIVED
OCT 23 1980
SANTA FE

3cc V-F Petroleum, Inc.
1cc Ed L. Reed & Assoc.
1cc Oil & Gas Commission, Hobbs, New Mexico

Lab. No. 31865

SOUTHWESTERN LABORATORIES

Jack H. Barton

SOUTHWESTERN LABORATORIES
FORT WORTH - DALLAS - HOUSTON - MIDLAND - BEAUMONT - TEXARKANA
CONSULTING, ANALYTICAL CHEMISTS
AND TESTING ENGINEERS

Midland Texas 11-17-80 File No. C-1902-W

Report of tests on Water

To V-F Petroleum, Inc.

Date Rec'd. 10-22-80

Received from

Identification Marks Lea County, New Mexico, Landis Rig No. 2, Dean Field, Alexander
Lease, 10:30 AM, 10-18-80, Sampled by J. I. Dooley.

	<u>mg/L</u>
Calcium-----	128
Magnesium-----	21
Sodium (Calc.)-----	49
Carbonate-----	None
Bicarbonate-----	268
Sulfate-----	149
Chloride-----	96
 Total Dissolved Solids (Evap. @ 180° C.)-----	 680
Total Hardness (As CaCO ₃)-----	406

RECEIVED
OCT 23 1980
SOUTH WESTERN
LABORATORIES

3cc V-F Petroleum, Inc.
1cc Ed L. Reed & Associates
1cc Oil & Gas Commission, Hobbs, New Mexico

Lab. No. 31866

SOUTHWESTERN LABORATORIES

Jack H. Barton

SOUTHWESTERN LABORATORIES
FORT WORTH - DALLAS - HOUSTON - MIDLAND - BEAUMONT - TEXARKANA
CONSULTING, ANALYTICAL CHEMISTS
AND TESTING ENGINEERS

Midland Texas 11-17-80 File No. C-1902-W

Report of tests on Water

To V-F Petroleum, Inc.

Date Rec'd. 10-22-80

Received from

Identification Marks Lea County, New Mexico, Dean Field, Alexander Lease, Shot Hole
Sampled @ 140 ft., 10-16-80.

	<u>mg/L</u>
Calcium-----	484
Magnesium-----	406
Sodium (Calc.)-----	253
Carbonate-----	None
Bicarbonate-----	196
Sulfate-----	256
Chloride-----	2127
 Total Dissolved Solids (Evap. @ 180° C.)---	 4964
Total Hardness (As CaCO ₃)-----	2879

RECEIVED
OCT 23 1980
SANTA FE

3cc V-F Petroelum, Inc.
1cc Ed L. Reed & Associates
1cc Oil & Gas Commission, Hobbs, New Mexico

SOUTHWESTERN LABORATORIES
Jack H. Barton

Lab. No. 31867

SOUTHWESTERN LABORATORIES
FORT WORTH - DALLAS - HOUSTON - MIDLAND - BEAUMONT - TEXARKANA
CONSULTING, ANALYTICAL CHEMISTS
AND TESTING ENGINEERS

Midland Texas 11-17-80 File No. C-1902-W

Report of tests on Water

To V-F Petroleum, Inc.

Date Rec'd. 10-22-80

Received from

Identification Marks Lea County, New Mexico, Dean Field, Alexander Lease, Shot hole
Sampled @ 180 ft., 10-16-80.

	<u>mg/L</u>
Calcium-----	420
Magnesium-----	474
Sodium (Calc.)-----	968
Carbonate-----	None
Bicarbonate-----	194
Sulfate-----	186
Chloride-----	3368
 Total Dissolved Solids (Evap. @ 180° C.)---	 4930
Total Hardness (As CaCO ₃)-----	3000

RECEIVED
OCT 27 1980
SANTA FE DIVISION

3cc V-F Petroleum, Inc.

1cc Ed L. Reed & Assoc.

1cc Oil & Gas Commission, Hobbs, New Mexico

SOUTHWESTERN LABORATORIES

Lab. No. 31868

Jack H. Barton

SOUTHWESTERN LABORATORIES
FORT WORTH - DALLAS - HOUSTON - MIDLAND - BEAUMONT - TEXARKANA
CONSULTING, ANALYTICAL CHEMISTS
AND TESTING ENGINEERS

Midland Texas 11-17-80 File No. C-1902-W

Report of tests on Water

To V-F Petroleum, Inc.

Date Rec'd. 10-22-80

Received from

Identification Marks Lea County, New Mexico, Dean Field, Alexander Lease, Shot Hole
near Arco State #1, Taken from 280 ft., 6:15 PM, 10-16-80

	<u>mg/L</u>
Calcium-----	3824
Magnesium-----	2329
Sodium (Calc.)-----	2507
Carbonate-----	None
Bicarbonate-----	206
Sulfate-----	396
Chloride-----	17020
 Total Dissolved Solids (Evap. @ 180° C.)-----	 26016
Total Hardness (As CaCO ₃)-----	19144

RECEIVED
OCT 22 1980
SANTA FE

3cc V-F Petroleum, Inc.
1cc Ed L. Reed & Assoc.
1cc Oil & Gas Commission, Hobbs, New Mex. **SOUTHWESTERN LABORATORIES**

Jack H. Barton

Lab. No. 31869

SOUTHWESTERN LABORATORIES
FORT WORTH - DALLAS - HOUSTON - MIDLAND - BEAUMONT - TEXARKANA
CONSULTING, ANALYTICAL CHEMISTS
AND TESTING ENGINEERS

Midland Texas 11-17-80 File No. C-1902-W

Report of tests on Water

To V-F Petroleum, Inc.

Date Rec'd. 10-22-80

Received from

Identification Marks Lea County, New Mexico, Dean Field, Alexander Lease, Alexander's Abandoned Water well.

	<u>mg/L</u>
Calcium-----	66
Magnesium-----	30
Sodium (Calc.)-----	37
Carbonate-----	None
Bicarbonate-----	191
Sulfate-----	88
Chloride-----	85
 Total Dissolved Solids (Evap. @ 180° C.)-----	 432
Total Hardness (As CaCO ₃)-----	289

3cc V-F Petroleum, Inc.
1cc Ed L. Reed & Assoc.
1cc Oil & Gas Commission, Hobbs, New Mexico

Lab. No. 31870

SOUTHWESTERN LABORATORIES

Jack H. Barton

SOUTHWESTERN LABORATORIES
FORT WORTH - DALLAS - HOUSTON - MIDLAND - BEAUMONT - TEXARKANA
CONSULTING, ANALYTICAL CHEMISTS
AND TESTING ENGINEERS

Midland Texas 11-17-80 File No. C-1902-W

Report of tests on Water

To V-F Petroleum, Inc.

Date Rec'd. 10-22-80

Received from

Identification Marks Lea County, New Mexico, Dean Field, Alexander Lease, Windmill

	<u>mg/L</u>
Calcium-----	87
Magnesium-----	31
Sodium (Calc.)-----	44
Carbonate-----	None
Bicarbonate-----	165
Sulfate-----	169
Chloride-----	92
 Total Dissolved Solids (Evap. @ 180° C.)-----	 808
Total Hardness (As CaCO ₃)-----	344

3cc V-F Petroleum, Inc.
1cc Ed L. Reed & Assoc.
1cc Oil & Gas Commission, Hobbs, New Mexico

SOUTHWESTERN LABORATORIES

Lab. No. 31871

Jack H. Burton

O

Remarks

Hole No H0-1
page 1 of 1

0

Depth	Log	Description
		Caliche - whitish-yellow, tr. of vf. qtz. grains, hard
		Sand - flesh, vf to f. qtz grains, ang. to subrd., mod. clay matrix
50		
		Sand - brown, vf. qtz. grains, ang. to subrd. mod. clay matrix
00		Gravel - black, white, orange, $\frac{1}{4}$ to $\frac{1}{2}$ in, subang to subrd, 100 to 110 ft
		Clay - maroon, med silt, tr. of mica
		T.D. - 120 ft
50		
00		

Hole No. Ho-2
 page 1 of 1

Hole No. Ho-2
page 1 of 1

O

[illegible]

Hole No H0-3
page 1 of 1

SCARBOROUGH DRILLING

TEST HOLES — WATER WELLS

122 N. 24th St. - Ph. 806-872-3285 or 3125

LAMESA, TEXAS 79331

Ho-2 WELL LOG

From	To	FORMATION
0	2	top soil
2	30	caliche
20	45	sand + clay micheal
45	105	sand + gravel
105	120	Red Seal
Drilled 5" Well		
Run 3" PVC Pipe		
Set 2" Jet Pipe		
Pulled 2" Jet Pipe		
#		
@400 480.00		

Date 10-9-80 Driller L. Scarborough

SCARBOROUGH DRILLING

TEST HOLES — WATER WELLS

122 N. 24th St. - Ph. 806-872-3285 or 3125

LAMESA, TEXAS 79331

Ho-3 WELL LOG

From	To	FORMATION
0	2	top soil
2	30	caliche
30	40	sand + clay micheal
40	110	sand + gravel
110	120	Red Seal
Drilled 5"		
Run 3" PVC		
Pipe Set 2" Jet		
Pipe Jetted Well		
Pulled 2" Jet Pipe		
#		
@400 480.00		

Date 10-9-80 Driller L. Scarborough

SCARBOROUGH DRILLING

TEST HOLES — WATER WELLS

122 N. 24th St. - Ph. 806-872-3285 or 3125

LAMESA, TEXAS 79331

Ho-1 WELL LOG

From	To	FORMATION
0	2	top soil
2	30	caliche
30	40	sand + clay micheal
40	105	sand + gravel
105	140	Red Seal
Run 3" PVC Pipe		
Run 2" Jet Pipe		
Jetted Well		
Pulled 2" Jet Pipe		
#		
@400 560.00		

Date 10-12-80 Driller L. Scarborough

Albuquerque Analytical, Inc.

[505] 266-9106

[505] 294-6310 Night

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

No. 12686

Rec'd. September 19, 1980

Cations	mg/l	meq/l	Total	Cations	mg/l	meq/l	Total	Anions	mg/l	meq/l	Total	% of Total
Ca ⁺⁺	3.67		1.43	Ca ⁺⁺	800.40		48.67	Cl ⁻	710.64		94.51	95
Mg ⁺⁺	25.72		3.03	Mg ⁺⁺	25.72		2.57	SO ₄ ⁻	32.79		4.36	4
Na ⁺ +K ⁺	818.31		96.53	Na ⁺ +K ⁺	818.31		44.76	CO ₃ ⁻² +HCO ₃ ⁻	8.46		1.17	1
Total	847.7			Total	1644.43				751.89			

Owner Oil Conservation

Address P.O. Box 2088 Santa Fe, NM 87501

Appearance and Data TEXACO SW Dwell Sec 24-T11S R32E

Chemist J.M. Grover, M.S.

	mg/l	meq/l		mg/l	meq/l			
Aluminum			Beryllium (BeO ₃)			Acidity		ppm
Ammonium			Bicarbonate	516.0	8.45724	Alkalinity		ppm
Arsenic			Boron (BO ₂)			BOD		ppm
Barium			Bromide			Chlorine		ppm
Cadmium			Carbonate	<0.1	.00333	COD		ppm
Calcium	16040.0	3.67264	Chloride	25200.0	710.64	Color		PCU
Chromium (CrO ₃)			Cyanide			Conductance		µho/cm
Cobalt			Fluoride			Dissolved O ₂		ppm
Copper			Hydroxide			Hardness		m
Gold			Iodide			H ₂ S		ppm
Iron			Molybdenum (MoO ₄)			Hydrazine		ppm
Lead			Nitrate			Odor		T.O.
Lithium			Nitrite			pH		
Magnesium	312.75	25.72056	Phosphate (Tot.)			Phenols		ppm
Manganese			Phosphate (Meta)			Silica		ppm
Mercury T			Phosphate (Ortho)			Solids (Tot.)		ppm
Nickel			Selenium (SeO ₄)			Solids (Tot. Diss.)	4 5,872.0	ppm
Potassium	105.0	2.6859	Sulfate	1575.0	32.7915	Solids (Tot. Susp.)		ppm
Silver			Sulfite			Solids ()		ppm
Sodium	18750.0	815.625	Tellurium (TeO ₃)			Surfactant		ppm
Uranium (U ₃ O ₈)			Vanadium			Turbidity		JTU
Zinc						Volatile Acids		ppm

62.2 *+

H0-1

63.6 +

1.6 -

62. *+

H0-2

64.08 +

1.6 -

62.48 *+

H0-3

61.85 +

1.6 -

60.25 *+

Albuquerque Analytical, Inc.

[505] 266-9106

[505] 294-6310 Nights

4115 Silver S.E.
Albuquerque, N.M. 87106

Cations	meq/l	% of Total
Ca ⁺²	98.60	28.04
Mg ⁺²	22.18	5.96
Na ⁺ + K ⁺	249.30	67.36
Total	370.08	

No. 12686

Rec'd. September 19, 1980

WATER ANALYSIS

Anions	meq/l	% of Total
Cl ⁻	288.20	94.13
SO ₄ ⁻²	14.57	4.75
CO ₃ ⁻² + HCO ₃ ⁻¹	3.41	1.11
Total	306.18	

Owner Oil Conservation

Address P.O. Box 2088 Santa Fe, NM 87501

Appearance and Data

HO-1

Chemist J.M. Grover, M.S.

	mg/l	meq/l
Aluminum		
Ammonium		
Arsenic		
Barium		
Cadmium		
Calcium	1976.0	98.6024
Chromium (CrO ₃)		
Cobalt		
Copper		
Gold		
Iron		
Lead		
Lithium		
Magnesium	269.7	22.18028
Manganese		
Mercury T		
Nickel		
Potassium	29.0	7.4182
Silver		
Sodium	5714.0	248.559
Uranium (U ₃ O ₈)		
Zinc		

	mg/l	meq/l
Beryllium (BeO ₃)		
Bicarbonate	208.0	3.40912
Boron (BO ₂)		
Bromide		
Carbonate	<0.1	.00333
Chloride	10220.0	288.204
Cyanide		
Fluoride		
Hydroxide		
Iodide		
Molybdenum (MoO ₄)		
Nitrate		
Nitrite		
Phosphate (Tot.)		
Phosphate (Meta)		
Phosphate (Ortho)		
Selenium (SeO ₄)		
Sulfate	700.0	14.574
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 ₂ S		ppm
Hydrazine		ppm
Odor		T.O.
pH		
Phenols		ppm
Silica		ppm
Solids (Tot.)		ppm
Solids (Tot. Diss.)	21,288.0	ppm
Solids (Tot. Susp.)		ppm
Solids ()		ppm
Surfactant		ppm
Turbidity		JTU
Volatile Acids		ppm

Albuquerque Analytical, Inc.

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

WATER ANALYSIS

Anions	mg/l	% of Total
Cl ⁻	67.26	86.727
SO ₄ ⁻²	7.18	9.26
CO ₃ ⁻² + HCO ₃ ⁻¹	3.12	4.02
Total	77.56	

No. 12686

Rec'd. September 19, 1980

	[505] 266-9106	of Nights
	[505] 294-6310	
Cations	mg/l	Total
Ca ⁺²	16.97	21.03
Mg ⁺²	4.95	6.13
Na ⁺¹ + K ⁺¹	58.78	73.83
Total	80.7	

Owner Oil Conservation

Address P.O. Box 2088

Santa Fe, NM 87501

Appearance and Data

HO-2

Chemist J.M. Grover, M.S.

	mg/l	meq/l
Aluminum		
Ammonium		
Arsenic		
Barium		
Cadmium		
Calcium	340.0	16.966
Chromium (CrO ₃)		
Cobalt		
Copper		
Gold		
Iron		
Lead		
Lithium		
Magnesium	60.25	4.95496
Manganese		
Mercury T		
Nickel		
Potassium	6.4	1.163712
Silver		
Sodium	1347.5	58.61625
Uranium (U ₃ O ₈)		
Zinc		

	mg/l	meq/l
Beryllium (BeO ₃)		
Bicarbonate	190.0	3.1141
Boron (BO ₂)		
Bromide		
Carbonate	<0.1	.00333
Chloride	2385.0	67.257
Cyanide		
Fluoride		
Hydroxide		
Iodide		
Molybdenum (MoO ₄)		
Nitrate		
Nitrite		
Phosphate (Tot.)		
Phosphate (Meta)		
Phosphate (Ortho)		
Selenium (SeO ₄)		
Sulfate	345.0	7.1829
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 ₂ S		ppm
Hydrazine		ppm
Odor		T.O.
pH		
Phenols		ppm
Silica		ppm
Solids (Tot.)		ppm
Solids (Tot. Diss.)	4648.0	ppm
Solids (Tot. Susp.)		ppm
Solids ()		ppm
Surfactant		ppm
Turbidity		JTU
Volatile Acids		ppm

Albuquerque Analytical, Inc.

[505] 266-9106

[505] 294-6310

70 of

Nights

Cations	meq/l	Total
Ca ⁺⁺	2.22	21.76
Mg ⁺⁺	.53	5.14
Na ⁺ +K ⁺	7.45	73.64
Total	10.2	

Owner Oil Conservation

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

Anions

WATER ANALYSIS

	meq/l	Total
Cl ⁻	2.54	27.64
SO ₄ ⁻¹	3.90	42.44
CO ₃ ⁻² +HCO ₃ ⁻¹	2.75	29.93
Total	9.19	30

No. 12686

Rec'd. September 19, 1980

Address P.O. Box 2088 Santa Fe, NM 87501

Appearance and Data HO-3

Chemist J.M. Grover, M.S.

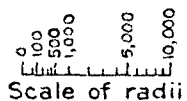
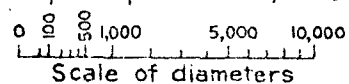
	mg/l	meq/l
Aluminum		
Ammonium		
Arsenic		
Barium		
Cadmium		
Calcium	44.4	2.21556
Chromium (CrO ₃)		
Cobalt		
Copper		
Gold		
Iron		
Lead		
Lithium		
Magnesium	6.5	.53456
Manganese		
Mercury T		
Nickel		
Potassium	2.1	.053718
Silver		
Sodium	170.0	7.395
Uranium (U ₃ O ₈)		
Zinc		

	mg/l	meq/l
Beryllium (BeO ₃)		
Bicarbonate	168.0	2.75352
Boron (BO ₂)		
Bromide		
Carbonate	<0.1	.00333
Chloride	90.2	2.54364
Cyanide		
Fluoride		
Hydroxide		
Iodide		
Molybdenum (MoO ₄)		
Nitrate		
Nitrite		
Phosphate (Tot.)		
Phosphate (Meta)		
Phosphate (Ortho)		
Selenium (SeO ₄)		
Sulfate	187.5	3.90375
Sulfite		
Tellurium (TeO ₃)		
Vanadium		

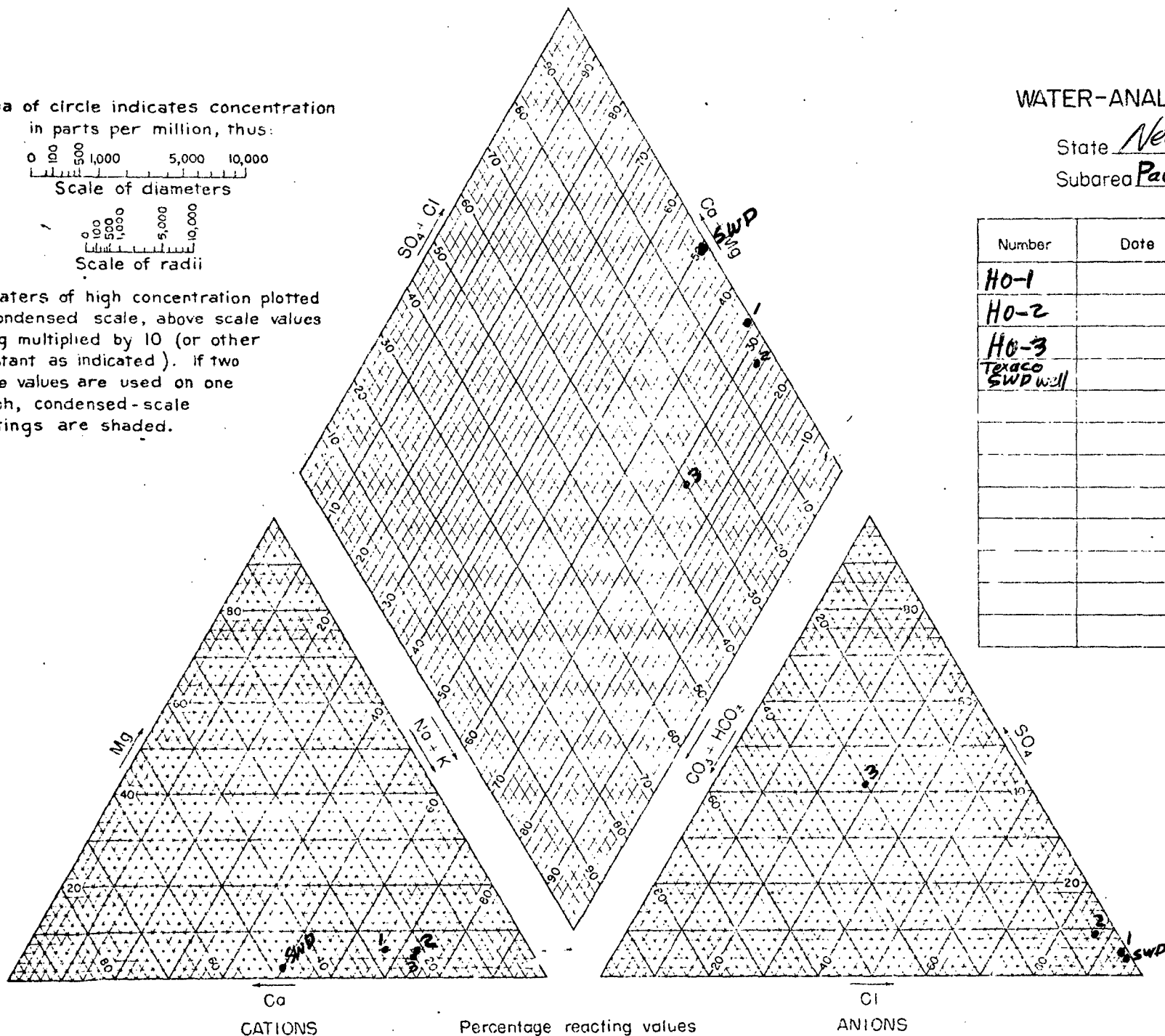
Acidity		ppm
Alkalinity		ppm
BOD		ppm
Chlorine		ppm
COD		ppm
Color		PCU
Conductance		μho/cm
Dissolved O ₂		ppm
Hardness		ppm
H ₂ S		ppm
Hydrazine		ppm
Odor		T.O.
pH		
Phenols		ppm
Silica		ppm
Solids (Tot.)		ppm
Solids (Tot. Diss.)	556.0	ppm
Solids (Tot. Susp.)		ppm
Solids ()		ppm
Surfactant		ppm
Turbidity		JTU
Volatile Acids		ppm

PROPERTIES

Area of circle indicates concentration
in parts per million, thus:



Waters of high concentration plotted
at condensed scale, above scale values
being multiplied by 10 (or other
constant as indicated). If two
scale values are used on one
graph, condensed-scale
plottings are shaded.



WATER-ANALYSIS DIAGRAM

State New Mexico
Subarea Paul Hamilton Area

Number	Date	Parts per million	Depth or perforations
H0-1			
H0-2			
H0-3			
TEXACO SWD well			

Plotted by _____

Checked by _____

Date _____

Figure 3.

Paul Hamilton
water Analysis & Texaco
analysis

RESULT OF WATER ANALYSES

TO: Mr. Alvin F. Jones
916 Security National Bank Building, Roswell,
New Mexico 88201

LABORATORY NO. 979252
SAMPLE RECEIVED 9-27-79
RESULTS REPORTED 10-3-79

COMPANY Cochran and Jones, Ltd. LEASE Saladan Oil Corporation
FIELD OR POOL Moore (Devonian)
SECTION BLOCK SURVEY COUNTY Lea STATE New Mexico

SOURCE OF SAMPLE AND DATE TAKEN:
NO. 1 Produced water - taken from J. H. Moore "B" #2.
NO. 2
NO. 3
NO. 4

REMARKS: Samples submitted by Paul Hamilton, Caprock, New Mexico

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0315			
pH When Sampled				
pH When Received	7.14			
Bicarbonate as HCO ₃	653			
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	5,800			
Calcium as Ca	1,800			
Magnesium as Mg	316			
Sodium and/or Potassium	14,898			
Sulfate as SO ₄	1,541			
Chloride as Cl	25,567			
Iron as Fe	0.07			
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	44,775			
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				
Hydrogen Sulfide	8.5			
Resistivity, ohms/cm at 77° F.	0.177			
Suspended Oil				
Filtrable Solids as mp/l				
Volume Filtered, ml				
Phosphate, as PO ₄	0.0			

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks The undersigned certifies the above to be true and correct
to the best of his knowledge and belief.

RESULT OF WATER ANALYSES

TO: Mr. Alvin F. Jones
916 Security National Bank Building, Roswell,
New Mexico 88201

LABORATORY NO. 972281
SAMPLE RECEIVED 9-27-79
RESULTS REPORTED 10-3-79

COMPANY Cochran and Jones, Ltd. LEASE Amarado Mesa
FIELD OR POOL Moore (Devonian)
SECTION BLOCK SURVEY COUNTY Lea STATE New Mexico

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Produced water - taken from W. Robinson #1.

NO. 2

NO. 3

NO. 4

REMARKS: Sample submitted by Paul Hamilton, Caprock NM

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0352			
pH When Sampled				
pH When Received	7.34			
Bicarbonate as HCO ₃	598			
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	7,700			
Calcium as Ca	2,340			
Magnesium as Mg	450			
Sodium and/or Potassium	16,259			
Sulfate as SO ₄	1,441			
Chloride as Cl	29,118			
Iron as Fe	0.37			
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	50,206			
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				
Hydrogen Sulfide	0.0			
Resistivity, ohms/in at 77° F.	0.159			
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Phosphate, as PO ₄	± 0.13			

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks The undersigned certifies the above to be true and correct
to the best of his knowledge and belief.

~~This is considered an insufficient amount to be absolutely positive of its presence.~~

RESULT OF WATER ANALYSES

TO: Mr. Alvin F. Jones
916 Security National Bank Building, Roswell,
New Mexico 88201

LABORATORY NO. 979250
SAMPLE RECEIVED 9-27-79
RESULTS REPORTED 10-3-79

COMPANY Cochran and Jones, Ltd. LEASE As listed
FIELD OR POOL Moore (Devonian)
SECTION BLOCK SURVEY COUNTY Lea STATE New Mexico
SOURCE OF SAMPLE AND DATE TAKEN:

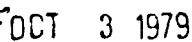
NO. 1 Sample 1-M2.
NO. 2 Sample 2-M2.
NO. 3
NO. 4

REMARKS: Samples submitted by Paul Hamilton, Caprock, New Mexico

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0328	1.0309		
pH When Sampled				
pH When Received	7.50	7.75		
Bicarbonate as HCO ₃	573	573		
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	5,300	6,000		
Calcium as Ca	1,600	1,860		
Magnesium as Mg	316	328		
Sodium and/or Potassium	15,495	14,956		
Sulfate as SO ₄	1,407	955		
Chloride as Cl	26,277	26,277		
Iron as Fe	0.26	2.5		
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	45,658	44,949		
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				
Hydrogen Sulfide	0.0	0.0		
Resistivity, ohms/m at 77° F.	0.173	0.175		
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Phosphate, as PO ₄	± 0.18	0.0		

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks The undersigned certifies the above to be true and correct
to the best of his knowledge and belief.
This is considered an insufficient amount to be absolutely positive of its presence.



DIAL EMERSON 6.9701
DIAL EMERSON 6.7171

2411 WEST 42ND STREET

P. O BOX 643
ODESSA, TEXAS

79760

WATER ANALYSIS

cochran and

Charge Jones, LTD.

Test No. WT-79-154

Date of Run 10-1-79

Date Received 9-27-79

Sample of Produced Salt Water from Salt Water Disposal System

ured from Moore - Devonian Field

Lea County New Mexico

Secured by

pose _____ Time _____ Date _____

Sampling Conditions: _____ Sample No. 1-W2

CONSTITUENTS REPORTED AS PARTS PER MILLION UNLESS OTHERWISE SPECIFIED

Alkalinity - - CaCO_3 0 Dissolved Oxygen - - O_2 _____

al Alkalinity - - CaCO₃ 440 Free Carbon Dioxide - - CO₂ 80

oxide - - Cl 24775 Hydrogen Sulfide - - H₂S 0

ium - - Ca 1560 Chromate - - CrO₄

144

rate - - SO₂ 180 Sodium - - Na 14280

al Hardness - - CaCO₃ 4400 Carbonate - - CO₂ 0

ca - - SiO_2 _____ Bicarbonate - - HCO_3 _____ 268

mina - - Al₂O₃ _____ Total Dissolved Solids _____ 44075

phosphate - - PO. 1.35 pH @ 75 °F 6.60

a) Iron (Water) .42 ~~SPECIFIC CONDUCTANCE~~ ~~XXXXXXXXXX~~

al Iron (Oil) _____ Specific Gravity @ 60 °F 1.0300

COUPON DATA

Coupon No.	Initial Wt. Grams	Test Period	Terminal Wt. Grams	Wt. Loss Grams
------------	----------------------	-------------	-----------------------	-------------------

Average Corrosion Rate MPY: Coupon No.

Average Corrosion Rate MPY: Coupon No.

Description of Corrosion

500-3-Mr. Alvin E. Jones

1-Mr. Charles Joy

P.O. Box 1194
Roswell, New Mexico 88201

702 Hermosa Drive
Artesia, New Mexico
88210

Analyzed By:

J. Wolf

OCT 3 1979

WOLF PETRO LAB, INC.

DIAL EMERSON 6-9701
DIAL EMERSON 6-7171

2411 WEST 42ND STREET

P. O. BOX 643
ODESSA, TEXAS

79760

WATER ANALYSIS

Cochran and
Jones, LTD.Charge WT-79-157
Test No. 10-1-79
Date of Run 9-27-79
Date ReceivedA Sample of Produced Water from W. Robinson Well No. 1Secured from Amerada Hess - Moore - Devonian Fieldat Lea County New Mexico Secured by _____

Purpose _____ Time _____ Date _____

Sampling Conditions: Sample No. W-1

CONSTITUENTS REPORTED AS PARTS PER MILLION UNLESS OTHERWISE SPECIFIED

Alkalinity - - CaCO ₃	<u>0</u>	Dissolved Oxygen - - O ₂	
Total Alkalinity - - CaCO ₃	<u>450</u>	Free Carbon Dioxide - - CO ₂	<u>82</u>
Chloride - - Cl	<u>25625</u>	Hydrogen Sulfide - - H ₂ S	<u>0</u>
Calcium - - Ca	<u>1440</u>	Chromate - - CrO ₄	
Magnesium - - Mg	<u>115</u>	Manganese - - Mn	
Sulfate - - SO ₄	<u>1425</u>	Sodium - - Na	<u>15615</u>
Total Hardness - - CaCO ₃	<u>4000</u>	Carbonate - - CO ₃	<u>0</u>
Silica - - SiO ₂		Bicarbonate - - HCO ₃	<u>275</u>
Alumina - - Al ₂ O ₃		Total Dissolved Solids	<u>47115</u>
Phosphate - - PO ₄	<u>1.30</u>	pH @ <u>75</u> °F	<u>6.65</u>
Total Iron (Water)	<u>.12</u>	Resistivity @ 70°F	<u>.252</u>
Total Iron (Oil)		Specific Gravity @ <u>60</u> °F	<u>1.0310</u>

COUPON DATA

Coupon No.	Initial Wt. Grams	Test Period	Terminal Wt. Grams	Wt. Loss Grams
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Average Corrosion Rate MPY: Coupon No. _____

Average Corrosion Rate MPY: Coupon No. _____

Description of Corrosion _____

Copies To: 3-Mr. Alvin E. Jones
P.O. Box 1194
Roswell, New Mexico 88201
1-File

1-Mr. Charles Joy
702 Hermosa Drive
Artesia, New Mexico 88210

Analyzed By: J. Wolf

OCT 3 1979

WOLF PETRO LAB, INC.

DIAL EMERSON 6.9701
DIAL EMERSON 6.7171

2411 WEST 42ND STREET

P. O. BOX 643
ODESSA, TEXAS

79760

WATER ANALYSIS

Cochran and

Charge Jones, LTD.Test No. WT-79-155Date of Run 10-1-79Date Received 9-27-79Sample of Produced Water from J.H. Moore (B) Well No. 2Sourced from Samedan Oil Corporation - Moore - Devonian FieldLea County New Mexico Secured by _____

Purpose _____ Time _____ Date _____

Sampling Conditions: Sample No. W-2

CONSTITUENTS REPORTED AS PARTS PER MILLION UNLESS OTHERWISE SPECIFIED

Alkalinity - - CaCO_3 0 Dissolved Oxygen - - O_2 _____Total Alkalinity - - CaCO_3 530 Free Carbon Dioxide - - CO_2 84Chloride - - Cl 24800 Hydrogen Sulfide - - H_2S 0Calcium - - Ca 1600 Chromate - - CrO_4 _____Magnesium - - Mg 173 Manganese - - Mn _____Sulfate - - SO_4 240 Sodium - - Na 14266Total Hardness - - CaCO_3 4600 Carbonate - - CO_3 0Silica - - SiO_2 _____ Bicarbonate - - HCO_3 323Alumina - - Al_2O_3 _____ Total Dissolved Solids 44436Phosphate - - PO_4 1.45 pH @ 75 °F 6.55Total Iron (Water) .59 Resistivity @ 70 °F .254Total Iron (Oil) _____ Specific Gravity @ 60 °F 1.0305

COUPON DATA

Coupon No.	Initial Wt. Grams	Test Period	Terminal Wt. Grams	Wt. Loss Grams
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Average Corrosion Rate MPY: Coupon No. _____

Average Corrosion Rate MPY: Coupon No. _____

Description of Corrosion _____

Copies To: 3-Mr. Alvin E. Jones
P.O. Box 1194
Roswell, New Mexico 882011-Mr. Charles Joy
702 Hermosa Drive
Artesia, New Mexico
82210

Analyzed By:

J. Wolf

OCT 3 1979

WOLF PETRO LAB, INC.

DIAL EMERSON 6.9701
DIAL EMERSON 6.7171

2411 WEST 42ND STREET

P. O. BOX 643
ODESSA, TEXAS

79760

WATER ANALYSIS

Cochran and

Charge Jones, LTD.Test No. WT-79-156Date of Run 10-1-79Date Received 9-27-79Sample of Water from Observation Well Completed in the OgalallaSecured from Well - Sixty Feet from a Disposal SystemLea County New Mexico

Secured by _____

Purpose _____ Time _____ Date _____

Sampling Conditions: Sample No. 2-W2

CONSTITUENTS REPORTED AS PARTS PER MILLION UNLESS OTHERWISE SPECIFIED

Alkalinity - - CaCO ₃	0	Dissolved Oxygen - - O ₂	
Total Alkalinity - - CaCO ₃	470	Free Carbon Dioxide - - CO ₂	75
Chloride - - Cl	27600	Hydrogen Sulfide - - H ₂ S	0
Calcium - - Ca	1700	Chromate - - CrO ₄	
Magnesium - - Mg	79	Manganese - - Mn	
Sulfate - - SO ₄	850	Sodium - - Na	16320
Total Hardness - - CaCO ₃	4525	Carbonate - - CO ₃	0
Silica - - SiO ₂		Bicarbonate - - HCO ₃	287
Alumina - - Al ₂ O ₃		Total Dissolved Solids	49765
Phosphate - - PO ₄	.25	pH @ 75 °F	6.75
Total Iron (Water)	.19	Resistivity @ 70°F.	.248
Total Iron (Oil)		Specific Gravity @ 60 °F	1.0340

COUPON DATA

Coupon No.	Initial Wt. Grams	Test Period	Terminal Wt. Grams	Wt. Loss Grams
------------	----------------------	-------------	-----------------------	-------------------

Average Corrosion Rate MPY: Coupon No. _____

Average Corrosion Rate MPY: Coupon No. _____

Description of Corrosion _____

Copies To: 3-Mr. Alvin E. Jones
P.O. Box 1194
Roswell, New Mexico 88201
1-File1-Mr. Charles Joy
702 Hermosa Drive
Artesia, New Mexico
88210

Analyzed By:

J. Wolf



WOLF PETRO LAB, INC.

DIAL EMERSON 6-9701
DIAL EMERSON 6-7171

2411 WEST 42ND STREET

P. O. BOX 643
ODESSA, TEXAS

79760

WATER ANALYSIS

Cochran and

Charge Jones, LTD

Test No. WT-79-144

Date of Run 9-17-79

Date Received 9-15-79

A Sample of Water from Observation Well Completed in the Ogalalla

Secured from Well - Sixty Feet from a Disposal System

At Lea County New Mexico Secured by _____

Purpose _____ Time _____ Date _____

Sampling Conditions: Sample No. 2-W

CONSTITUENTS REPORTED AS PARTS PER MILLION UNLESS OTHERWISE SPECIFIED

P Alkalinity - - CaCO ₃	<u>0</u>	Dissolved Oxygen - - O ₂	_____
Total Alkalinity - - CaCO ₃	<u>470</u>	Free Carbon Dioxide - - CO ₂	<u>70</u>
Chloride - - Cl	<u>27250</u>	Hydrogen Sulfide - - H ₂ S	<u>0</u>
Calcium - - Ca	<u>1680</u>	Chromate - - CrO ₄	_____
Magnesium - - Mg	<u>72</u>	Manganese - - Mn	_____
Sulfate - - SO ₄	<u>800</u>	Sodium - - Na	<u>16169</u>
Total Hardness - - CaCO ₃	<u>4450</u>	Carbonate - - CO ₃	<u>0</u>
Silica - - SiO ₂	_____	Bicarbonate - - HCO ₃	<u>287</u>
Alumina - - Al ₂ O ₃	_____	Total Dissolved Solids	<u>49139</u>
Phosphate - - PO ₄	<u>1.53</u>	pH @ <u>75</u> °F	<u>6.95</u>
Total Iron (Water)	<u>.99</u>	Resistivity @ <u>70°F.</u>	<u>.238</u>
Total Iron (Oil)	_____	Specific Gravity @ <u>60</u> °F	<u>1.0335</u>

COUPON DATA

Coupon No.	Initial Wt. Grams	Test Period	Terminal Wt. Grams	Wt. Loss Grams
------------	----------------------	-------------	-----------------------	-------------------

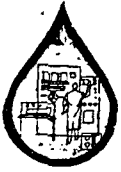
Average Corrosion Rate MPY: Coupon No. _____

Average Corrosion Rate MPY: Coupon No. _____

Description of Corrosion _____

Copies To: 3-Mr. Alvin F. Jones
P.O. Box 1194
Roswell, New Mexico 88201
1-File

1-Mr. Charles Joy
702 Hermosa Drive
Artesia, New Mex.
88210
Analyzed By: J. W.



WOLF PETRO LAB, INC.

DIAL EMERSON 6-9701
DIAL EMERSON 6-7171

2411 WEST 42ND STREET

P. O. BOX 643
ODESSA, TEXAS

79760

WATER ANALYSIS

Cochran and

Charge Jones, LTD.
Test No. WT-79-143
Date of Run 9-17-79
Date Received 9-15-79

A Sample of Produced Salt Water from Salt Water Disposal System

Secured from Moore Devonian Field

At Lea County New Mexico Secured by _____

Purpose _____ Time _____ Date _____

Sampling Conditions: Sample No. 1-W

CONSTITUENTS REPORTED AS PARTS PER MILLION UNLESS OTHERWISE SPECIFIED

P Alkalinity - - CaCO_3	<u>0</u>	Dissolved Oxygen - - O_2	
Total Alkalinity - - CaCO_3	<u>460</u>	Free Carbon Dioxide - - CO_2	<u>88</u>
Chloride - - Cl	<u>31750</u>	Hydrogen Sulfide - - H_2S	<u>0</u>
Calcium - - Ca	<u>1560</u>	Chromate - - CrO_4	
Magnesium - - Mg	<u>108</u>	Manganese - - Mn	
Sulfate - - SO_4	<u>1500</u>	Sodium - - Na	<u>19496</u>
Total Hardness - - CaCO_3	<u>4275</u>	Carbonate - - CO_3	<u>0</u>
Silica - - SiO_2		Bicarbonate - - HCO_3	<u>281</u>
Alumina - - Al_2O_3		Total Dissolved Solids	<u>57481</u>
Phosphate - - PO_4	<u>2.29</u>	pH @ <u>75</u> °F	<u>6.50</u>
Total Iron (Water)	<u>.78</u>	Resistivity @ <u>70</u> °F	<u>.196</u>
Total Iron (Oil)		Specific Gravity @ <u>60</u> °F	<u>1.0395</u>

COUPON DATA

Coupon No.	Initial Wt. Grams	Test Period	Terminal Wt. Grams	Wt. Loss Grams
------------	----------------------	-------------	-----------------------	-------------------

Average Corrosion Rate MPY: Coupon No. _____

Average Corrosion Rate MPY: Coupon No. _____

Description of Corrosion _____

To: 3-Mr. Alvin E. Jones
P.O. Box 1194
Roswell, New Mexico 88201
1-File

1-Mr. Charles Joy
702 Hermosa Drive
Artesia, New Mexico
88210

Analyzed By:

J. Wolf

P. O. BOX 1468
MONAHAN, TEXAS 79756
PHONE 943-3234 OR 563-1040

Martin Water Laboratories, Inc

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

TO: Mr. Alvin F. Jones LABORATORY NO. 97950
916 Security National Bank Building SAMPLE RECEIVED 9-11-79
Roswell, NM 88201 RESULTS REPORTED 9-13-79
COMPANY Cochran and Jones, Ltd. LEASE _____
FIELD OR POOL Moore (Devonian)
SECTION _____ BLOCK _____ SURVEY _____ COUNTY Lea STATE NM
SOURCE OF SAMPLE AND DATE TAKEN: 1
NO. 1 Sample #1-M. from ob#1 @ 101' 9/10/79
NO. 2 Sample #2-M. Injection water at Battery 9/10/79
NO. 3 _____
NO. 4 _____

REMARKS: Samples submitted by Paul Hamilton, Caprock, NM

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0328	1.0319		
pH When Sampled				
pH When Received	7.63	7.58		
Bicarbonate as HCO ₃	581	576		
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	5,800	6,000		
Calcium as Ca	1,780	1,840		
Magnesium as Mg	328	340		
Sodium and/or Potassium	15,844	15,260		
Sulfate as SO ₄	1,650	1,106		
Chloride as Cl	26,987	26,632		
Iron as Fe	0.74	5.9		
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	47,170	45,754		
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				
Hydrogen Sulfide				
Resistivity, ohms/m at 77° F.	0.0	0.0		
Suspended Oil	0.168	0.173		
Filtrable Solids as mg/l				
Volume Filtered, ml				
Phosphate, as WS-79	0.0	0.0		
Phosphate, as SP-191	0.0	0.0		

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks

~~The undersigned certifies the above to be true and correct to the best of his knowledge and belief.~~

Form No. 3

cc: Mr. Charles Joy, Artesia, NM
702 Hermosa Drive

By _____

Waylan C. Martin, M. A.

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. HO-3

LAND STATUS: State X Federal _____ Fee _____

WELL LOCATION: Unit Letter D, Section 24, T 11 S, R 32 E

Type well: Monitor Well Depth 90 feet

Well Use: _____

Sample Number: _____

Date Taken: 2-16-82

Taken By: Eddie Seay

Specific Conductance: _____ m/cm

Total Dissolved Solids _____ PPM

Chlorides: 42.6 PPM

Sulfates: _____ PPM

Water level: 62 from surface

Date Analyzed: 2-16-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142 x .3 = 42.6

FEB 18 1982
OIL CONSERVATION DIVISION
SANTA FE

XC; Paul Hamilton
Texaco, Inc.
Oscar Simpson-OCD-Santa Fe
File

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. HO-3

LAND STATUS: State x Federal _____ Fee _____

WELL LOCATION: Unit Letter D, Section 24, T. 11 S, R 32 E

Type well: Monitor well Depth 90 feet

Well Use: _____

Sample Number: 1

Date Taken: 1-28-82

Taken By: Eddie seay

Specific Conductance: _____ m/

Total Dissolved Solids _____ PPM

Chlorides: 42.6 PPM

Sulfates: _____ PPM

Water level: 62 from surface

Date Analyzed: 2-4-82

By: Eddie Seay
Oil Conservation Division

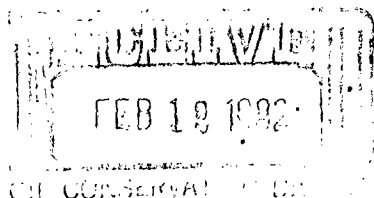
REMARKS: 25 ml 14² x.3= 42.6 ppm

XC:Paul Hamilton

Texaco, Inc.

Oscar Simpson-OCD- Santa Fe
File

Supervisor, District I



ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. HO-3

LAND STATUS: State x Federal _____ Fee _____

WELL LOCATION: Unit Letter D, Section 24, T. 11 S. R. 32 E

Type well: Monitor well Depth 90 feet

Well Use: _____

Sample Number: _____

Date Taken: 1-22-82

Taken By: Eddie Seay

Specific Conductance: _____ m/

Total Dissolved Solids _____ PPM

Chlorides: 42.6 PPM

Sulfates: _____ PPM

Water Level: 62' from surface

Date Analyzed: 1-26-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142 x .3 = 42.6 ppm

cc:Paul Hamilton
Texaco
Oscar Simpson-OCD Santa Fe
File

Supervisor, District I

61 1032

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. HO-3

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Monitor Depth 90 feet

Well Use:

Sample Number: Date Taken: 1-8-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 42.6 PPM

Sulfates: PPM

Water Level: 62' from surface

Date Analyzed: 1-11-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 25ml 142 x .3 = 42.6

XC:Paul Hamilton
Texaco Inc.
Oscar Simpson-OCD-Santa Fe
File

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. HO-3

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T. 11 S, R 32 E

Type well: Moniter Depth 90 feet

Well Use:

Sample Number: Date Taken: 12-31-81

Taken By: Eddie Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 42.6 PPM

Sulfates: PPM

Water Level: 62' from surface

Date Analyzed: 1-11-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25ml 142x .3= 42.6

XC:Paul Hamil^{ton}

Texaco Inc.

Oscar Simpson-OCD-Santa Fe
File

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. HO-3

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Moniter Depth 90 feet

Well Use:

Sample Number: Date Taken: 12-23-81

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 28.4 PPM

Sulfates: PPM

Water level: 62' from surface

Date Analyzed: 1-11-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142x.2=28.4

XC:Paul Hamilton

Texaco Inc.

Oscar Simpson-OCD-Santa Fe

File

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. HO-3

LAND STATUS: State _____ Federal _____ Fee _____

WELL LOCATION: Unit Letter _____, Section 24, T. 11 S, R 32 E

Type well: Monitor well Depth 90 feet

Well Use: _____

Sample Number: _____

Date Taken: 12-17-81

Taken By: Eddie Seay

Specific Conductance: _____ m/cm

Total Dissolved Solids _____ PPM

Chlorides: 28.4 PPM

Sulfates: _____ PPM

Water Level: 62' from surface

Date Analyzed: 1-11-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142x.2=28.4

XC:Paul Hamilton

Texaco Inc.

Oscar Simpson-OCD-Santa Fe

File

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. HO-3

LAND STATUS: State _____ Federal _____ Fee _____

WELL LOCATION: Unit Letter _____, Section 24, T. 11 S, R 32 E

Type well: Monitor Well Depth 90 feet

Well Use: _____

Sample Number: _____

Date Taken: 12-10-81

Taken By: Eddie Seay

Specific Conductance: _____ m/~

Total Dissolved Solids _____ PPM

Chlorides: 42.6 PPM

Sulfates: _____ PPM

Water level: 62' from surface

Date Analyzed: 1-11-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 25ml 142 x.3=42.6

XC: Paul Hamilton
Texaco Inc.
Oscar Simpson-OCD Santa Fe
File

Supervisor, District I

WATER ANALYSIS

REMARKS: 25 ml 142 x .3 = 42.6 ppm

[illegible]

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

Well Ownership: HAMILTON -- OCD Well No. HO-3

Land Status: State Federal Fee

Well Location: Unit Letter , Section 24, T 11 S, R 32 E

Type Well: Observation well Depth 90 feet.

Well Use:

Sample Number: 1

Date Taken: 11-25-81

Taken By: Eddie W. Seay

Specific Conductance: m/cm

Total dissolved Solids: PPM.

Chlorides: 42.6 PPM.

Sulfates: PPM.

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

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

 :

Date Analyzed: 12-3-81

By: Eddie W. Seay
Oil Conservation Division

Water level: 62 ft. from surface

REMARKS: 25 ml 142 x .3 = 42.6 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

Well Ownership: HAMILTON -- OCD Well No. HO-3

Land Status: State Federal Fee

Well Location: Unit Letter , Section 24, T 11 S, R 32 E

Type Well: Observation well Depth 90 feet.

Well Use:

Sample Number: 1 Date Taken: 11-18-81

Taken By: Eddie W. Seay

Specific Conductance: m/

Total dissolved Solids: PPM.

Chlorides: 42.6 PPM.

Sulfates: PPM.

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

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

Date Analyzed: 12-3-81

By: Eddie W. Seay
Oil Conservation Division

Water level: 62 ft. from surface

REMARKS: 25 ml 142 x .3 = 42.6 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. HO-3

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Observation Depth 90 feet

Well Use:

Sample Number: 1

Date Taken: 11-12-81

Taken By: Eddie W. Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 28.4 PPM

Sulfates: PPM

Water Level: 62ft from surface

Date Analyzed: 11-16-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25ml 142 x .2 = 28.4

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. HO-3

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Observation Depth 88 feet

Well Use:

Sample Number: 1

Date Taken: 11-5-81

Taken By: A.A. Plattsmier

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 42.6 PPM

Sulfates: PPM

Water Level: 63ft from surface

Date Analyzed: 11-16-81

By: Eddie W. Long
Oil Conservation Division

REMARKS: 25ml sample 142 x .3 = 42.6 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. HO-3

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Observation well Depth 90 feet

Well Use:

Sample Number: 1

Date Taken: 10-29-81

Taken By: Eddie W. Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 56.8 PPM

Sulfates: PPM

Water level: 62ft from surface

Date Analyzed: 11-16-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25ml 142 x .4 = 56.8 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. HO #3

LAND STATUS: State _____ Federal _____ Fee _____

WELL LOCATION: Unit Letter _____, Section 24, T. 11 S, R 32 E

Type well: Observation Well Depth 90 feet

Well Use: _____

Sample Number: 1

Date Taken: 10-22-81

Taken By: Eddie W. Seay

Specific Conductance: _____ m/~

Total Dissolved Solids _____ PPM

Chlorides: 127.8 PPM

Sulfates: _____ PPM

Water level: 62ft from surface

Date Analyzed: 10-27-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142 x .9 = 127.8 ppm

Supervisor, District I

NOV 30 1981

CHIEF

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. HO-3

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T. 11 S, R 32 E

Type well: Observation Well Depth 90 feet

Well Use:

Sample Number: 1

Date Taken: 10-15-81

Taken By: Eddie W. Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 42.6 PPM

Sulfates: PPM

Water Level: 62ft from surface

Date Analyzed: 10-27-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142 x .3 = 42.6 ppm

Supervisor, District I

NOV 23 1981
OIL CONSERVATION DIVISION
HOBBS, NM

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton OCD WELL NO. HO-3

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Observation Well Depth 75 feet

Well Use:

Sample Number: 1

Date Taken: 9-29-81

Taken By: Eddie W. Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 42.6 PPM

Sulfates: PPM

Water Level: 63ft from surface

Date Analyzed: 10-27-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142 x .3 = 42.6 ppm

Supervisor, District I

NOV 02 1981
OIL CONSERVATION DIVISION
HOBBS, NM

SECRET

WATER ANALYSIS

Well Use: _____

Taken By: Eddie Seay

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

By: Eddie W. Long
Oil Conservation Division

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WATER ANALYSIS

REMARKS: 25 ml 142 X .8 = 113.6

OIL CONSERVATION DIVISION

RECEIVED

Well Ownership: OCD -- Hamilton Well No. HO #3
Land Status: State _____ Federal _____ Fee _____
Well Location: Unit Letter D, Section 24, T 11 S, R 32 E
located 1000' west of Texaco SWD BO #3) top of water 62 feet
Type Well: observation well Depth 97 feet.
Well Use:

Taken By: Eddie Seay

Sulfates: PPM.

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

By: Lester J. Clements
Oil Conservation Division

REMARKS: 50 ml sample $71.0 \times .6 = 42.6$ ppm



ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. HO-2
LAND STATUS: State X Federal _____ Fee _____
WELL LOCATION: Unit Letter D, Section 24, T. 11 S, R 32 E
Type well: Moniter Well Depth 110 feet
Well Use: _____

Sample Number: _____ Date Taken: 2-16-82
Taken By: Eddie Seay

Specific Conductance: _____ m/_____
Total Dissolved Solids _____ PPM
Chlorides: 113.6 PPM
Sulfates: _____ PPM

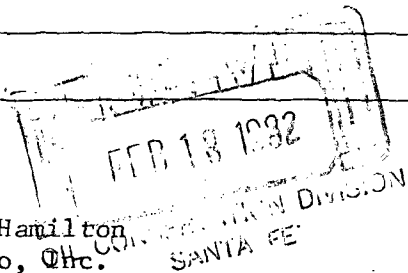
Water Level: 64 from surface

Date Analyzed: 2-16-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 25 ml 142 x .8=113.6 ppm

XC; Paul Hamilton
Texaco, Inc.
Oscar Simpson-OCD-Santa Fe
File



Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. HO-2

LAND STATUS: State x Federal _____ Fee _____

WELL LOCATION: Unit Letter D, Section 24, T. 11 S, R 32 E

Type well: Moniter well Depth 110 feet

Well Use: _____

Sample Number: 1

Date Taken: 1-28-82

Taken By: Eddie seay

Specific Conductance: _____ m/~

Total Dissolved Solids _____ PPM

Chlorides: 99.4 PPM

Sulfates: _____ PPM

Water Level: 64 from surface

Date Analyzed: 2-4-82

By: Eddie Seay
Oil Conservation Division

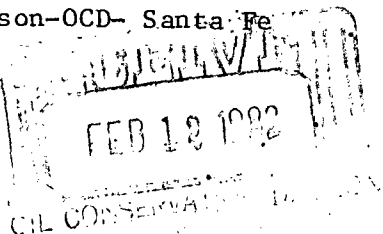
REMARKS: 25 ml 142 x .7= 99.4ppm

XC:Paul Hamilton

Texaco, Inc.

✓ Oscar Simpson-OCD- Santa Fe
File

Supervisor, District I



ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOODS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. HO-2

LAND STATUS: State x Federal Fee

WELL LOCATION: Unit Letter D, Section 24, T. 11 S, R 32 E

Type well: moniter well Depth 110 feet

Well Use:

Sample Number:

Date Taken: 1-22-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 170.4 PPM

Sulfates: PPM

Water Level: 64' from surface

Date Analyzed: 1-26-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 25 ml 142 x 1.2= 170.4 ppm

cc:Paul Hamilton
Texaco

Oscar Simpson-OCD Santa Fe

File 1111

FEB 01 1982

OIL CONSERVATION DIVISION
SANTA FE

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. HO-2

LAND STATUS: State _____ Federal _____ Fee _____

WELL LOCATION: Unit Letter _____, Section 24, T 11 S, R 32 E

Type well: Monitor Depth 110 feet

Well Use: _____

Sample Number: _____ Date Taken: 1-8-82

Taken By: Eddie Seay

Specific Conductance: _____ m/

Total Dissolved Solids _____ PPM

Chlorides: 127.8 PPM

Sulfates: _____ PPM

Water Level: 64' from surface

Date Analyzed: 1-11-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142 x .9 = 127.8

XC:paul Hamilton
Texaco Inc.
Oscar Simpson-OCD-Santa Fe
File

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton OCD WELL NO. HO-2

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Moniter Depth 110 feet

Well Use:

Sample Number: Date Taken: 1-5-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 127.8 PPM

Sulfates: PPM

Water level: 64' from surface

Date Analyzed: 1-11-82

By: Eddie M Seay
Oil Conservation Division

REMARKS: 25 ml 142 x .9 = 127.8

XC:Paul Hamilton
Texaco Inc.

Oscar Simpson-OCD-Santa Fe
File

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. HO-2

LAND STATUS: State _____ Federal _____ Fee _____

WELL LOCATION: Unit Letter _____, Section 24, T. 11 S, R 32 E

Type well: Monitor Depth 110 feet

Well Use: _____

Sample Number: _____

Date Taken: 12-31-81

Taken By: Eddie Seay

Specific Conductance: _____ m/

Total Dissolved Solids _____ PPM

Chlorides: 142 PPM

Sulfates: _____ PPM

Water level: 65' from surface

Date Analyzed: 1-11-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142 x 1.0 = 142

XC:Paul Hamilton
Texaco Inc.
Oscar Simpson-OCD-Santa Fe
File

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. Ho-2

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Moniter Depth 110 feet

Well Use:

Sample Number:

Date Taken: 12-23-81

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 142 PPM

Sulfates: PPM

Water Level: 65' from surface

Date Analyzed: 1-1182

By: Eddie W Seay
Oil Conservation Division

REMARKS: 25 ml 142x1.0=142

XC:Paul Hamilton

Texaco Inc.

Oscar Simpson-OCD-Santa Fe
File

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. HO-2

LAND STATUS: State _____ Federal _____ Fee _____

WELL LOCATION: Unit Letter _____, Section 24, T. 11 S, R 32 E

Type well: Monitor Well Depth 110 feet

Well Use: _____

Sample Number: _____

Date Taken: 12-17-81

Taken By: Eddie Seay

Specific Conductance: _____ m/cm

Total Dissolved Solids _____ PPM

Chlorides: 142 PPM

Sulfates: _____ PPM

Water Level: 64' from surface

Date Analyzed: 1-11-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142x 1.0=142

XC:Paul Hamilton

Texaco Inc.

Oscar Simpson-OCD-Santa Fe

File

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. HQ-2

LAND STATUS: State _____ Federal _____ Fee _____

WELL LOCATION: Unit Letter _____, Section 24, T. 11 S, R. 32 E

Type well: Monitor well Depth 110 feet

Well Use: _____

Sample Number: 1

Date Taken: 12-10-81

Taken By: Eddie Saey

Specific Conductance: _____ m/cm

Total Dissolved Solids _____ PPM

Chlorides: 127.8 PPM

Sulfates: _____ PPM

Water level: 65' from surface

Date Analyzed: 1-11-82

By: Eddie W. Saey
Oil Conservation Division

REMARKS: 25 ml 142x.9= 127-8

XC: Paul Hamilton
Texaco Inc.
Oscar Simpson-OCD Santa Fe
File

Supervisor, District I

WATER ANALYSIS

REMARKS: 25 ml 142 x 1.0 = 142 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

Well Ownership: HAMILTON -- OCD Well No. HO-2

Land Status: State Federal Fee

Well Location: Unit Letter , Section 24, T 11 S, R 32 E

Type Well: Observation well Depth 110 feet.

Well Use:

Sample Number: 1

Date Taken: 11-25-81

Taken By: Eddie W. Seay

Specific Conductance: m/

Total dissolved Solids: PPM.

Chlorides: 142 PPM.

Sulfates: PPM.

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

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

 :

Date Analyzed: 12-3-81

By: Eddie W. Seay
Oil Conservation Division

Water level: 64 ft. from surface

REMARKS: 25 ml 142 x 1.0 = 142 ppm

WATER ANALYSIS

REMARKS: 25 ml 142 x 1.3 = 184.6 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. HO-2

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Observation Depth 110 feet

Well Use:

Sample Number: 1

Date Taken: 11-12-81

Taken By: Eddie W. Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 142 PPM

Sulfates: PPM

Water Level: 65ft from surface

Date Analyzed: 11-16-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25ml 142 x 1.0 = 142 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. HO-2

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Observation Depth 98 feet

Well Use:

Sample Number: 1

Date Taken: 11-5-81

Taken By: A.A. Plattsmier

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 71 PPM

Sulfates: PPM

Water Level: 65ft from surface

Date Analyzed: 11-16-81

By: Eddie W. Sea
Oil Conservation Division

REMARKS: 25ml 142 x .5 = 71ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. HO-2

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Observation Depth 110 feet

Well Use:

Sample Number: 1

Date Taken: 10-29-81

Taken By: Eddie W. SEay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 127.8 PPM

Sulfates: PPM

Water Level: 65ft from surface

Date Analyzed: 11-16-81

By: Eddie W. SEay
Oil Conservation Division

REMARKS: 25ml 142 x .9 = 127.8 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. HO #2

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Top H₂O - 65ft

Type well: Observation Well Depth 105 feet

Well Use:

Sample Number: 1

Date Taken: 10-22-81

Taken By: Eddie W. Seay

Specific Conductance: m/∞

Total Dissolved Solids PPM

Chlorides: 71 PPM

Sulfates: PPM

Water Level: 65ft from surface

Date Analyzed: 10-27-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142 x .5 = 71 ppm

Supervisor, District I

NOV 23 1981

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

NOV 0 1981
SANTA FE

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. HO-2

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T. 11 S, R 32 E

Type well: Observation Well Depth 105 feet

Well Use:

Sample Number: 1

Date Taken: 10-15-81

Taken By: Eddie W. Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 85.2 PPM

Sulfates: PPM

Water level: 65ft from surface

Date Analyzed: 10-27-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml sample 142 x .6 = 85.2 ppm

Supervisor, District 1

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DIVISION

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. HO-2

LAND STATUS: State _____ Federal _____ Fee _____

WELL LOCATION: Unit Letter _____, Section 24, T 11 S, R 32 E

Type well: Observation Well Depth 100 feet

Well Use: _____

Sample Number: 1

Date Taken: 9-29-81

Taken By: Eddie W. Seay

Specific Conductance: _____ m/~

Total Dissolved Solids _____ PPM

Chlorides: 71 PPM

Sulfates: _____ PPM

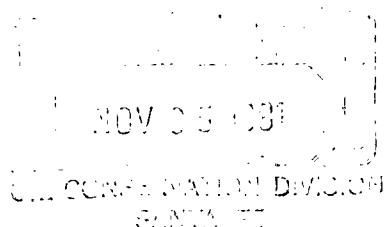
Water Level: 65ft from surface

Date Analyzed: 10-27-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142 x .5 = 71 ppm

Supervisor, District I



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WASHINGTON, D.C.

WATER ANALYSIS

Well Ownership: PAUL HAMILTON (OCD) Well No. HO#2

Land Status: State _____ Federal _____ Fee _____

Well Location: Unit Letter D, Section 24, T 11 S, R 32 E

Top H2o 65 ft.

Type Well: observation well Depth 109 feet.

Well Use: _____

Sample Number: 1

Date Taken: 8-10-81

Taken By: Eddie Seay

Specific Conductance: m/cm

Total dissolved Solids: PPM.

Chlorides: 184.5 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: 25ml 142 x 1.3 = 184.5 ppm

1

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Abstract

WATER ANALYSIS

REMARKS: 25 ml 142 X 2.1 = 298.2 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

RECEIVED

REMARKS: 10 ml sample $355.0 \times .5 = 177.5$ ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. HO-1

LAND STATUS: State X Federal _____ Fee _____

WELL LOCATION: Unit Letter D, Section 24, T 11 S, R 32 E

Type well: Monitor Well Depth 90 feet

Well Use: _____

Sample Number: _____

Date Taken: 2-16-82

Taken By: Eddie Seay

Specific Conductance: _____ m/

Total Dissolved Solids _____ PPM

Chlorides: 326.6 PPM

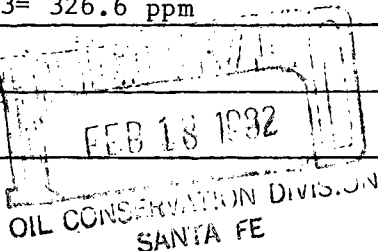
Sulfates: _____ PPM

Water Level: 63 from surface

Date Analyzed: 2-16-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 25 ml 142 x 2.3= 326.6 ppm



XC; Paul Hamilton
Texaco, Inc.
Oscar Simpson-OCD-Santa Fe
File

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. HO-1

LAND STATUS: State x Federal Fee

WELL LOCATION: Unit Letter D, Section 24, T 11 S, R 32 E

Type well: Moniter well Depth 90 feet

Well Use:

Sample Number: 1

Date Taken: 1-28-82

Taken By: Eddie seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 312.4 PPM

Sulfates: PPM

Water Level: 64 from surface

Date Analyzed: 2-4-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142 x 2.2= 312.4 ppm

XC:Paul Hamilton
Texaco, Inc.
✓Oscar Simpson-OCD- Santa Fe
File

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. HO-1

LAND STATUS: State x Federal _____ Fee _____

WELL LOCATION: Unit Letter D, Section 24, T. 11 S, R 32 E

Type well: moniter well Depth 90 feet

Well Use: moniter well

Sample Number: _____

Date Taken: 1-22-82

Taken By: Eddie Seay

Specific Conductance: _____ m/~

Total Dissolved Solids _____ PPM

Chlorides: 340.8 PPM

Sulfates: _____ PPM

Water Level: 64' from surface

Date Analyzed: 1-26-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142 x 2.4= 340.8 ppm

cc: Paul Hamilton

Texaco

Oscar Simpson, OCD Santa Fe

File

Supervisor, District 1

FEB 01 1982

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. HO-1

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Monitor Depth 90 feet

Well Use:

Sample Number:

Date Taken: 1-8-82

Taken By: Eddie Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 326.6 PPM

Sulfates: PPM

Water Level: 64' from surface

Date Analyzed: 1-11-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142 x 2.3= 326.6

Xc:Paul Hamilton
Texaco Inc.
Oscar Simpson-OCD-Santa Fe
File

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. HO-1

LAND STATUS: State _____ Federal _____ Fee _____

WELL LOCATION: Unit Letter _____, Section 24, T 11 S, R 32 E

Type well: Monitor Depth 90 feet

Well Use: _____

Sample Number: _____ Date Taken: 12-31-81

Taken By: Eddie Seay

Specific Conductance: _____ m/cm

Total Dissolved Solids _____ PPM

Chlorides: 326.6 PPM

Sulfates: _____ PPM

Water Level: 64' from surface

Date Analyzed: 1-11-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142x 2.3=326.6

XC:Paul Hamilton
Texaco Inc.
Oscar Simpson-OCS-Santa Fe
File

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. HO-1

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T. 11 S, R 32 E

Type well: Moniter Depth 90 feet

Well Use:

Sample Number:

Date Taken: 12-23-81

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 255.6 PPM

Sulfates: PPM

Water Level: 64' from surface

Date Analyzed: 1-11-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142x1.8=255.6

XC:Paul Hamilton
Texaco Inc.
Oscar Simpson-OCD-Santa Fe
File

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. Ho-1

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Moniter Well Depth 90 feet

Well Use:

Sample Number:

Date Taken: 12-17-81

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 284 PPM

Sulfates: PPM

Water level: 65' from surface

Date Analyzed: 1-11-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142x2.0=284

XC:Paul Hamilton

Texaco Inc.

Oscar Simpson-OCD-Santa Fe

File

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. HQ-1

LAND STATUS: State _____ Federal _____ Fee _____

WELL LOCATION: Unit Letter _____, Section 24, T 11 S, R 32 E

Type well: Moniter Depth 90 feet

Well Use: _____

Sample Number: 1

Date Taken: 12-10-81

Taken By: Eddie Seay

Specific Conductance: _____ m/~

Total Dissolved Solids _____ PPM

Chlorides: 255.6 PPM

Sulfates: _____ PPM

Water Level: 64' from surface

Date Analyzed: 1-11-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 25 ml 142x 1.8=255.6

Xc: Paul Hamilton
Texaco Inc.
Oscar Simpson-OCD Santa Fe
File

Supervisor, District I

WATER ANALYSIS

REMARKS: 25 ml 142 x 2.1 = 298.2 ppm

[illegible]

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. H0-1

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Observation Depth 90 feet

Well Use:

Sample Number: 1

Date Taken: 10-29-81

Taken By: Eddie W. Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 312.4 PPM

Sulfates: PPM

Water Level: 64ft from surface

Date Analyzed: 11-16-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25ml 142 x 2.2 = 312.4 ppm

Supervisor, District I

WATER ANALYSIS

REMARKS: 25 ml 142 x 2.2 = 312.4 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

Well Ownership: HAMILTON -- OCD Well No. HO-1

Land Status: State Federal Fee

Well Location: Unit Letter , Section 24, T 11 S, R 32 E

Type Well: Monitor well Depth 90 feet.

Well Use:

Sample Number: 1

Date Taken: 11-18-81

Taken By: Eddie W. Seay

Specific Conductance: m/c

Total dissolved Solids: PPM.

Chlorides: 227.2 PPM.

Sulfates: PPM.

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

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

 :

Date Analyzed: 12-3-81

By: Eddie W. Seay
Oil Conservation Division

Water level: 64 ft. from surface

REMARKS: 25 ml 142 x 1.6 = 227.2 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. HO-1

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Observation Depth 90 feet

Well Use:

Sample Number: 1

Date Taken: 11-12-81

Taken By: Eddie W. Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 298.2 PPM

Sulfates: PPM

Water Level: 64 1/2ft from surface

Date Analyzed: 11-16-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142 x 2.1 = 298.2 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. HO-1

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Observation Depth 90 feet

Well Use:

Sample Number: 1

Date Taken: 11-5-81

Taken By: A.A. Plattsmier

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 312.4 PPM

Sulfates: PPM

Water Level: 63ft from surface

Date Analyzed: 11-16-81

By: Eddie W. Lea
Oil Conservation Division

REMARKS: 25ml 142 x 2.2 = 312.4 ppm

Supervisor, District 1

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton OCD WELL NO. HO #1

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Top H₂O - 64ft

Type well: Observation Well Depth 90 feet

Well Use:

Sample Number: 1

Date Taken: 10-22-81

Taken By: Eddie W. Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 326.6 PPM

Sulfates: PPM

Water level: 64ft from surface

Date Analyzed: 10-27-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142 x 2.3 = 326.6 ppm

Supervisor, District I

NOV 03 1981

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. HO-1

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T. 11 S, R 32 E

Type well: Observation Well Depth 90 feet

Well Use:

Sample Number:

Date Taken: 10-15-81

Taken By: Eddie W. Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 298.2 PPM

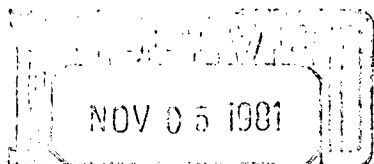
Sulfates: PPM

Water Level: 64ft from surface

Date Analyzed: 10-27-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142 x 2.1 = 298.2 ppm



OIL CONSERVATION DIVISION
SANTA FE

 Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton (OCD) WELL NO. HO-1

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T. 11 S, R 32 E

Type well: Observation Well Depth 90 feet

Well Use:

Sample Number: 1

Date Taken: 9-29-81

Taken By: Eddie W. Seay

Specific Conductance: m/Ω

Total Dissolved Solids PPM

Chlorides: 340.8 PPM

Sulfates: PPM

Water Level: 64ft from surface

Date Analyzed: 10-27-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142 x 2.4 = 340.8 ppm

Supervisor, District I

NOV 25 1981

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BUREAU OF LAND MANAGEMENT
SANTA FE

WATER ANALYSIS

By: Eddie W. Dean
Oil Conservation Division

REMARKS: 25ml 142 x .5 = 71ppm

WATER ANALYSIS

REMARKS: 25 ml 142 X 19. = 269.8 ppm

RECEIVED

Well Ownership: OCD - Hamilton Well No. HO #1

Land Status: State _____ Federal _____ Fee _____

Well Location: Unit Letter D, Section 24, T 11 S, R 32 E

located 100' east of Texaco SWD B0 #3) -- Top water 64 ft.

Type Well: observation well Depth 94 feet.

Well Use: _____

Sample Number: 1

Date Taken: 4-30-81

Taken By: Eddie Seay

Specific Conductance: _____ m/cm

Total dissolved Solids: _____ PPM.

Chlorides: 248.5 PPM.

Sulfates: PPM.

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

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

Date Analyzed: 5-5-81

By: Lester A. Clement
Oil Conservation Division

REMARKS: 10 ml sample $355.0 \times .7 = 248.5$ ppm



ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. 15-A

LAND STATUS: State X Federal _____ Fee _____

WELL LOCATION: Unit Letter D, Section 24, T 11 S, R 32 E

Type well: Monitor Well Depth 95 feet

Well Use: _____

Sample Number: _____

Date Taken: 2-16-82

Taken By: Eddie Seay

Specific Conductance: _____ m/cm

Total Dissolved Solids _____ PPM

Chlorides: 15,620 PPM

Sulfates: _____ PPM

Water level: 62 from surface

Date Analyzed: 2-16-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 4.4 = 15,620 ppm

15,620
FEB 17 1982

OIL CONSERVATION DIVISION
HOBBS, NM

XC; Paul Hamilton
Texaco, Inc.
Oscar Simpson-OCD-Santa Fe
File

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

*Corrected
copy*

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. 15-A

LAND STATUS: State X Federal Fee

WELL LOCATION: Unit Letter D, Section 24, T 11 S, R 32 E

Type well: Monitor well Depth: 90 feet

Well Use:

Sample Number:

Date Taken: 2-8-82
2-12-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 14,200 PPM

Sulfates: PPM

Water Level: 62 from surface

Date Analyzed: 2-15-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 4.0 = 14,200

XC:Paul Hamilton
Texaco, Inc.

Oscar Simpson-OCD-Santa Fe
File

Supervisor, District I

FEB 18 1982
OIL CONSERVATION DIVISION
SANTA FE

WATER ANALYSIS

WELL LOCATION: Unit Letter D , Section 24 , T. 11 S, R 32 E

Well Use: _____

Taken By: Eddie Seay

Sulfates: PPM

By: S. L. W. S.
Oil Conservation Division

REMARKS: 1ml 3550 x 4.4= 15,620 ppm

Supervisor, District I

FEB 12 1932

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBUS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. 15-A

LAND STATUS: State x Federal Fee

WELL LOCATION: Unit Letter , Section 24, T. 11 S. R. 32 E

Type well: Monitor well Depth 95 feet

Well Use:

Sample Number:

Date Taken: 1-22-82

Taken By: Eddie Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 17,395 PPM

Sulfates: PPM

Water Level: 63' from surface

Date Analyzed: 1-26-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 4.9=17,395 ppm

cc:Paul Hamilton

Texaco

Oscar Simpson-OCD Santa Fe

File

Supervisor, District I

FEB 01 1982

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. 15-A

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Monitor Depth 95 feet

Well Use:

Sample Number:

Date Taken: 1-8-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 14555 PPM

Sulfates: PPM

Water level: 62' from surface

Date Analyzed: 1-11-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 1ml 3550 x 4.1 = 14555

XC:Paul Hamilton
Texaco Inc.
Oscar Simpson-OCD-Santa Fe
File

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. 15-A

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Monitor Depth 95 feet

Well Use:

Sample Number: Date Taken: 12-31-81

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 12,425 PPM

Sulfates: PPM

Water level: 62' from surface

Date Analyzed: 1-11-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 3.5 = 12,425

XC:Paul Hamilton
Texaco Inc.
Oscar Simpson-OCD-Santa Fe
File

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. 15 A

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Monitor Depth 95 feet

Well Use:

Sample Number:

Date Taken: 12-23-81

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 15,620 PPM

Sulfates: PPM

Water level: 62' from surface

Date Analyzed: 1-11-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 1ml 3550x4.4=15620

XC:Paul Hamilton

Texaco Inc.

Oscar Simpson-OCD-Santa Fe

File

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

JAN 13 1982

OIL CONSERVATION DIVISION
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WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. 15-A

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Monitor well Depth 95 feet

Well Use:

Sample Number:

Date Taken: 12-17-81

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 14,910 PPM

Sulfates: PPM

Water Level: 63' from surface

Date Analyzed: 1-11-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 4.2 = 14,910

XC:Paul Hamilton

Texaco Inc.

Oscar Simpson-OCD-Santa Fe

File

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Texaco WELL NO. 15-A

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Monitor Well Depth 95 feet

Well Use:

Sample Number:

Date Taken: 12-10-81

Taken By: Eddie Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 14,555 PPM

Sulfates: PPM

Water Level: 63' from surface

Date Analyzed: 1-11-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550x4.1=14,555

XC:Paul Hamilton
Texaco Inc.
Oscar Simpson-OCD Santa Fe
File

Supervisor, District I

WATER ANALYSIS

REMARKS: 1 ml 3550 x 4.4 = 15,620 ppm

WATER ANALYSIS

REMARKS: 1 ml 3550 x 4.3 = 15,265 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

Well Ownership: TEXACO INC. Well No. 15-A

Land Status: State Federal Fee

Well Location: Unit Letter , Section 24, T 11 S, R 32 E

Type Well: Monitor well Depth 95 feet.

Well Use:

Sample Number: 1 Date Taken: 11-18-81

Taken By: Eddie W. Seay

Specific Conductance: m/∞

Total dissolved Solids: PPM.

Chlorides: 15,265 PPM.

Sulfates: PPM.

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

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

 :

Date Analyzed: 12-3-81

By: Eddie W. Seay

Water level: 63 ft from surface

Oil Conservation Division

REMARKS: 1 ml 3550 x 4.3 = 15,265 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton - Texaco WELL NO. #15-A

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Observation Depth 95 feet

Well Use:

Sample Number: 1

Date Taken: 11-12-81

Taken By: Eddie W. Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 15620 PPM

Sulfates: PPM

Water Level: 63 from surface

Date Analyzed: 11-16-81

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 4.4 = 15620 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Hamilton Texaco WELL NO. #15-A

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 24, T 11 S, R 32 E

Type well: Observation Depth 88 feet

Well Use:

Sample Number: 1

Date Taken: 11-5-81

Taken By: A.A. Plattsmier

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 8520 PPM

Sulfates: PPM

Water Level: 58ft from surface

Date Analyzed: 11-16-81

By: Eddie W. Dean
Oil Conservation Division

REMARKS: 1 ml 3550 x 2.4 = 8520

Supervisor, District I