Texaco USA

P O Box 728
Hobbs NM 88240
505 393 7191

January 27, 1987

State of New Mexico
Department of Energy & Minerals
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. David Catanach

RE: Conversion to Salt Water Disposal
A. H. Blinebry Fed NCT-1 Well No. 11
Unit Letter L, Sec. 28, T-22-S, R-38-E
Lea County, New Mexico

Gentlemen:

Texaco Inc. respectfully requests administrative approval of the referenced application by provisions provided in Rule 701.B.3. and 701.D.

In support of this application, you will find attached:

1) Form C-108
2) Map identifying wells and leases within 2-mile radius.
3) Map identifying the 1/2 mile radius area of review.
4) Table containing data on wells in area of review.
5) Schematic of a plugged well in the area of review.
6) Injection well data sheet.
7) List of affected offset operators and surface owner.
8) Letters mailed to offset operators and surface owner notifying them of this application.
9) Chemical analysis of waters to be injected.
10) Affidavit of publication and copy of legal notice.

Average injection rate into the well will be 250 barrels per day with a maximum rate of 350 barrels per day. Average injection pressure will be 600 PSI and the maximum injection pressure will be 990 PSI. The well will be stimulated with 2500 gallons 15% HCL acid. Injection will be into the San Andres formation at a depth of 4952' to 5030'. A chemical analysis of the disposal zone formation water is not available.

The Ogallala Aquifer lies above the disposal zone at approximately 90'-150' below the surface. There are no fresh water wells producing from this aquifer within a one-mile radius of the subject well.

Texaco has examined available geologic and engineering data and found no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

Your timely consideration of this application will be greatly appreciated.

Yours very truly,

L. J. Seeman

L. J. Seeman
District Petroleum Engineer

LDR:JRB

Attachments

ENERGY AND MINERALS DEPARTME

OIL CONSERVATION DIVISION

FORM C-108
Revised 7-1-81

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ yes ☐ no

II. Operator: Texaco Inc.

Address: P. O. Box 728, Hobbs, New Mexico 88240

Contact party: L. J. Seeman Phone: 505-393-7191

III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? ☐ yes ☒ no
If yes, give the Division order number authorizing the project _____.

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)

XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: L. J. Seeman Title Dist. Petr. Engr.

Signature: L. J. Seeman Date: January 27, 1987

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal.

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District

OFFSET OPERATORS WITHIN 1/2-MILE OF
A. B. BLINEBRY FED. NCT-1 WELL NO. 11

Bravo Energy, Inc.
P. O. Box 2160
Hobbs, New Mexico 88240

Chevron U.S.A., Inc.
P. O. Box 670
Hobbs, New Mexico 88240

SURFACE OWNER

Mr. Tom Lineberry
P. O. Box 1536
Midland, Texas 79702

Texaco USA

P O Box 728
Hobbs NM 88240
505 393 7191

January 27, 1987

Mr. Tom Lineberry
P. O. Box 1536
Midland, Texas 79702

RE: Conversion to Salt Water Disposal
A. H. Blinebry Fed NCT-1 Well No. 11
Lea County, New Mexico

Dear Sir:

In compliance with New Mexico Oil Conservation Division Rule 701.B.2, Texaco Inc. hereby notifies you that an application to convert the subject well to a salt water disposal well has been submitted to the Oil Conservation Division. The water will be injected into the San Andres formation at a depth of 4952-5030'. The well is located 1980' FSL and 330' FWL of Section 28, T-22-S, R-38-E.

Only the surface area absolutely required will be used in operating the well. The well is cased and cemented in such a way that all surface and subsurface fresh waters will be protected.

Objections to this request or a request for hearing should be filed with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico, 87501, within fifteen (15) days following receipt of this letter.

A copy of the application and a plat are attached for your information. If there are any questions, please do not hesitate to call this office.

Yours very truly,

J. A. Schaffer
District Operations Manager

LDR:JRB

Attachments

Texaco USA

P O Box 728
Hobbs NM 88240
505 393 7191

January 27, 1987

Bravo Energy, Inc.
P. O. Box 2160
Hobbs, New Mexico 88240

RE: Conversion to Salt Water Disposal
A. H. Blinebry Fed NCT-1 Well No. 11
Unit Letter L, Sec. 28, T-22-S, R-38-E
Lea County, New Mexico

Gentlemen:

This is to notify you, as an Offset Operator, that Texaco Inc. is requesting the New Mexico Oil Conservation Division to approve injection of water into the San Andres formation at the depth of 4952'-5030' into the subject well. A copy of Form C-108 and a plat are attached.

Objections to this request or a request for hearing should be filed with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico, 87501, within fifteen (15) days following receipt of this letter.

Yours very truly,

L. J. Seeman

L. J. Seeman
District Petroleum Engineer

LDR:JRB

Attachments

Texaco USA

P O Box 728
Hobbs NM 88240
505 393 7191

January 27, 1987

Chevron U.S.A., Inc.
P. O. Box 670
Hobbs, New Mexico 88240

RE: Conversion to Salt Water Disposal
A. H. Blinebry Fed NCT-1 Well No. 11
Unit Letter L, Sec. 28, T-22-S, R-38-E
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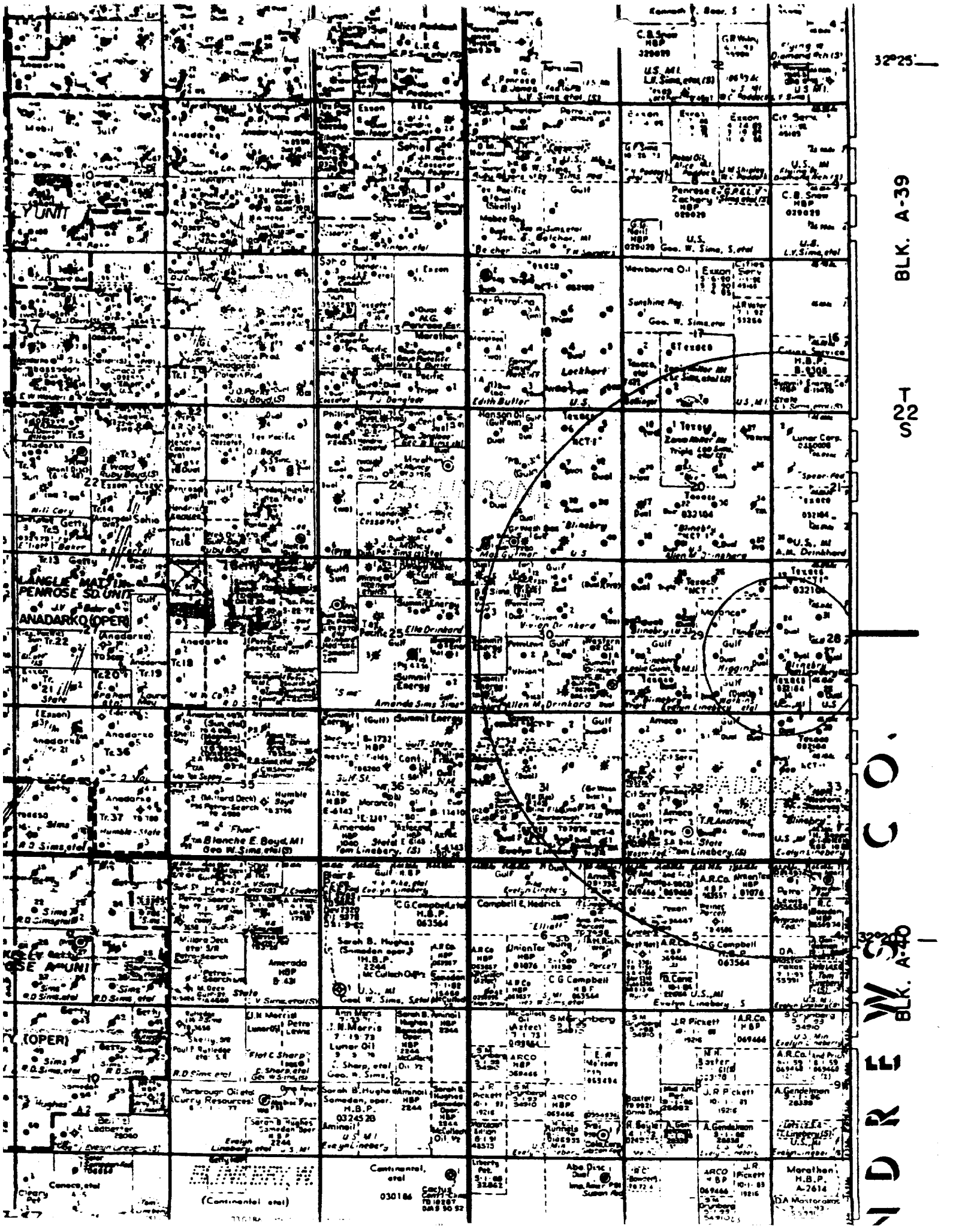
Yours very truly,

L. J. Seeman

L. J. Seeman
District Petroleum Engineer

LDR:JRB

Attachments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Conoco, etal
Cleary Pet.
Liberty Pet.
Campbell E. Hedrick
Evelyn Linebery
Sarah B. Hughes
Yarbrough Oil etal
Curry Resources
Lasater
Leadertex
Blanche E. Boyd, Mi
Geo W. Sims, etal
Amanda Sims
Ella Drinkard
Mel Gutmer
Sunshine Agy.
Geo. W. Sims, etal
Penrose Zachary
Lockhart
Edith Butler
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Flora Prod.
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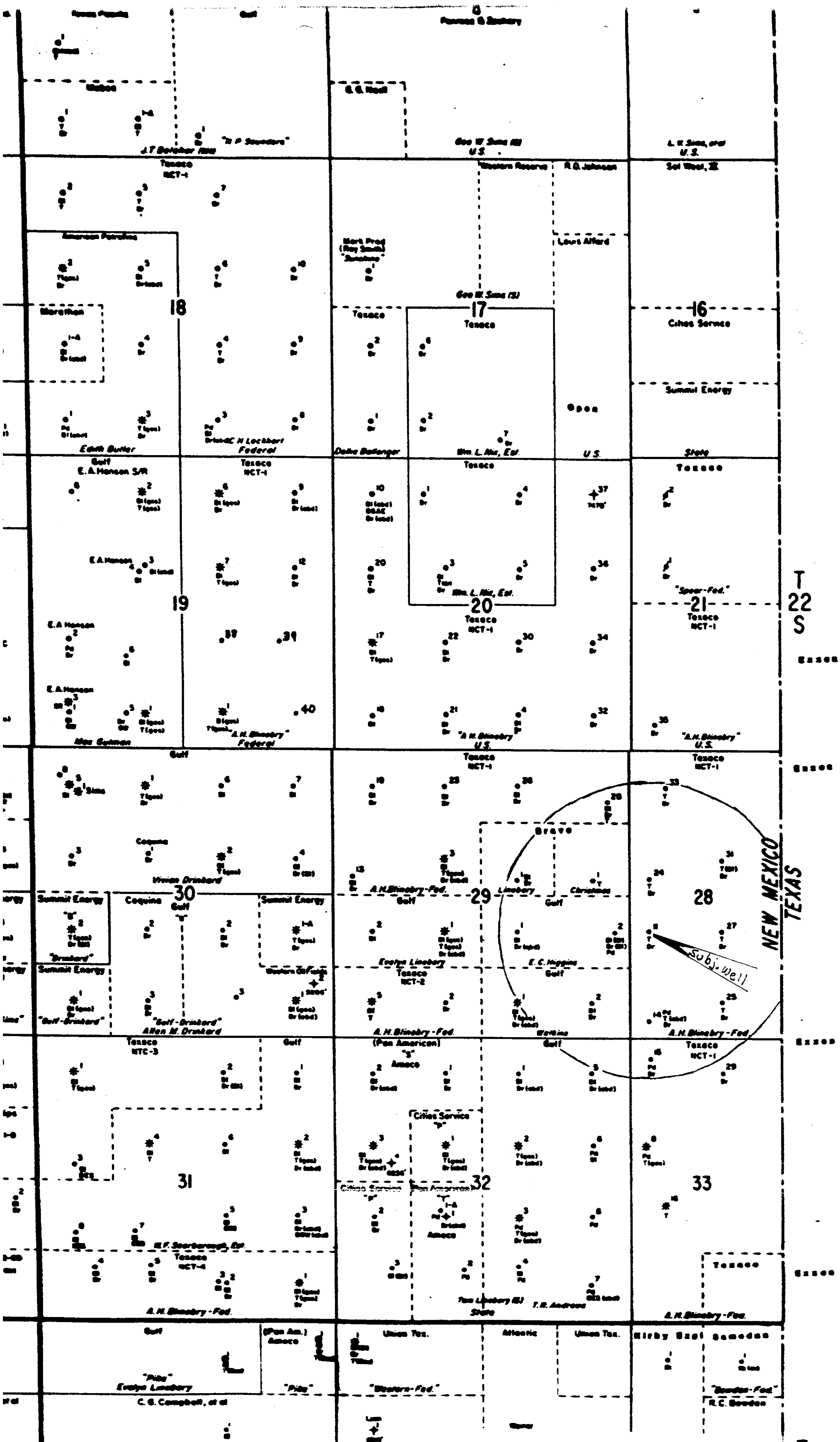
Tr. 994
Tr. 995
Tr. 996
Tr. 997
Tr. 998
Tr. 999
Tr. 1000



TEXACO INC.
A. H. Blinebry Fed. NCT-1
T-22-S, R-38-E
Lea County, New Mexico

Wells Within 2640' Radius of A. H. Blinebry Fed NCT-1 Well No. 11

Well Name & No.	Formation	Total Depth	Date Drilled	Current Status	Hole Size	Casing Size	Depth	Cement(sxs)	TOC	Determined By
Texaco										
A. H. Blinebry Fed NCT-1										
Well No. 14	Drinkard	7,200'	9/14/61	Oil - Active	12-1/4"	9-5/8"	1348'	700	Surface	Circulated
	Paddock				8-3/4"	7"	6922'	400	3462'	Calculated
Well No. 15	Drinkard	7,242'	3/15/62	Oil - Active	11"	8-5/8"	1350'	500	Surface	Circulated
					7-7/8"	2-7/8"	6864' >			
					7-7/8"	2-3/8"	7242' >	1200 >	2475'	Survey
Well No. 24	Tubb	7,300'	4/27/65	Oil - Active	11"	8-5/8"	1396'	600	Surface	Circulated
	Drinkard				7-7/8"	2-7/8"	7289' >			
					7-7/8"	2-7/8"	7298' >	1000 >	2584'	Calculated
Well No. 25	Drinkard	7,250'	6/02/65	Oil - Active	11"	8-5/8"	1402'	400	Surface	Circulated
	Tubb				7-7/8"	2-7/8"	7245' >			
					7-7/8"	2-7/8"	7248' >	1000 >	3000'	Calculated
Well No. 27	Tubb	7,300'	8/01/65	Oil - Active	11"	8-5/8"	1405'	500	Surface	Circulated
	Drinkard				7-5/8"	2-7/8"	7300' >			
					7-5/8"	2-7/8"	7300' >	1060 >	2585'	Calculated
Well No. 28	Blinebry	7,310'	8/28/65	Oil - Active	11"	8-5/8"	1315'	600	Surface	Calculated
	Tubb				7-7/8"	3 Strings				
	Drinkard					2-7/8" >	7310'	1050	1700'	Calculated
Well No. 31	Drinkard	7,330'	11/05/65	Oil - Active	11"	8-5/8"	1422'	530	Surface	Circulated
					7-7/8"	2-7/8"	7315' >			
					7-7/8"	2-7/8"	7316' >	1000 >	2620'	Calculated
Well No. 33	Drinkard	7,350'	12/13/65	Oil - Active	11"	8-5/8"	1395'	530	Surface	Circulated
	Tubb				7-7/8"	2-7/8"	7350' >			
					7-7/8"	2-7/8"	7345' >	1000 >	2634'	Calculated
Chevron - Higgins										
Well No. 1	Blinebry	7,003'	7/13/45	Oil - Active	17"	13-3/8"	307'	310	Surface	Circulated
	Drinkard				12-1/2"	9-5/8"	2938'	1325	1365'	N/A
					8-3/4"	7"	6910'	700	2955'	N/A
Well No. 2	Paddock	7,200'	4/14/62	Oil - Active	12-1/4"	9-5/8"	1362'	820	Surface	Circulated
					8-3/4"	7"	7200'	1055	1420'	Temp. Survey
Chevron - Watkins										
Well No. 1	Drinkard	7,000'	9/15/45	Oil - Active	17-1/2"	13-3/8"	311'	300	Surface	Circulated
					12-1/4"	9-5/8"	2930'	1300	425'	N/A
					8-3/4"	7"	6901'	700	3370'	N/A
Well No. 2	Drinkard	7,150'	4/13/61	Oil - Active	12-1/4"	9-5/8"	1349'	700	Surface	Circulated
	Blinebry				8-3/4"	7"	7150'	1250	Surface	Circulated
Bravo Energy - XMAS										
Well No. 1	Tubb	7,300'	10/08/65	P & A	12-1/4"	9-5/8"	1360'	590	Surface	Calculated
					8-3/4"	7"	7300'	600	4003'	Calculated
Bravo Energy - Lineberry										
Well No. 1	Blinebry	7,092'	5/18/57	Oil - Active	15-1/2"	13-3/8"	280	200		N/A
					11"	8-5/8"	2925'	1400	Surface	Circulated
					7-7/8"	5-1/2"	6929'	450	4410'	N/A

FORM ENG-4

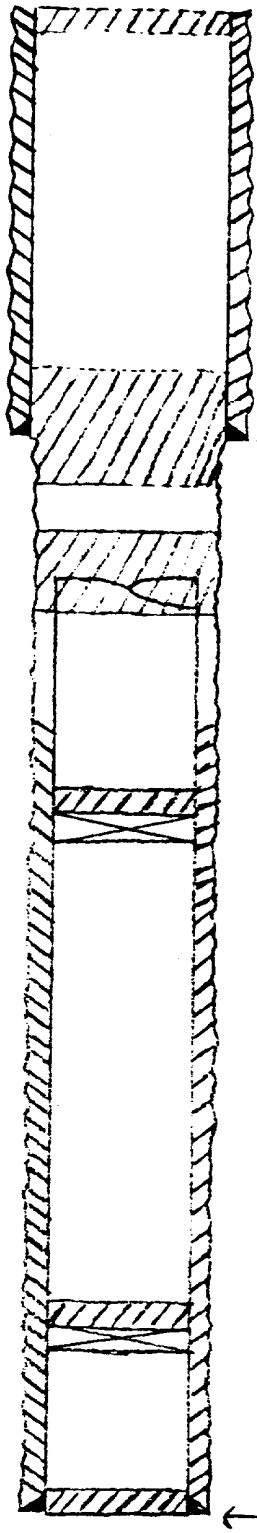
TEXACO INC.

SHEET NO. _____
DATE _____
BY _____
C'K'D _____
APP'D _____

LOCATION _____ EST. NO. _____
SUBJECT _____

SCHEMATIC OF PLUGGED WELL

Moranco
Xmas #1
Unit H, Sec. 29, T-22-S, R-38-E
2310' FNL + 660' FEL



surface plug

125 sx plug from 1500'-1200'

12¼" hole, 9⅝ csg @ 1360' cmt. w/ 590 sxs TOC calc @ surface (60% fillup)

75 sx plug across stub of 7" @ 1995'

Bridge Plug @ 4200' w/ 36' cmt. on top

Bridge Plug @ 6800' w/ 36' cmt. on top

PBTD 7260'
TD 7300'

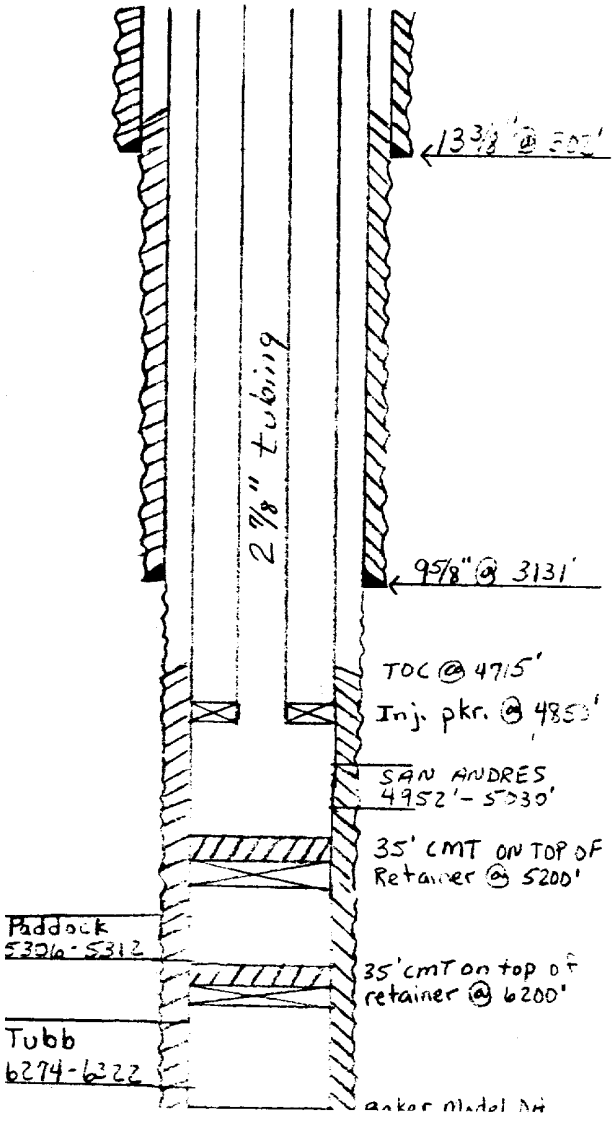
8¾" hole, 7" csg @ 7300' cmt. w/ 600 sxs TOC calc @ 4003' (70% fillup)

INJECTION WELL DATA SHEET

Texaco Inc. (OPERATOR) — A. H. Blinebry Fed NCT-1 (LEASE)

11	1980' FSL & 330' FWL,	28	22-S	38-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

Schematic



Tabular Data

Surface Casing

Size 13-3/8" " Cemented with 350 sx.

TOC Surface feet determined by Circulation

Hole size 17-1/2"

Intermediate Casing

Size 9-5/8" " Cemented with 2000 sx.

TOC 260 feet determined by Temp. Survey

Hole size 12-1/4"

Long string

Size 7" " Cemented with 400 sx.

TOC 4715 feet determined by Temp. Survey

Hole size 8-3/4"

Total depth 7200'

Injection interval

4952 feet to 5030 feet

(perforated or open-hole, indicate which)

P O BOX 1468
MONAHANS, TEXAS 79756
PH 943-3234 OR 563-1040

Martin Water Laboratories, Inc.

709 W INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

TO: Mr. Greg Bowers
P.O. Box 1065, Eunice, NM 88231

LABORATORY NO. 586348
SAMPLE RECEIVED 5-28-86
RESULTS REPORTED 6-6-86

COMPANY Texaco, Inc. LEASE A.H. Blinebry Federal
FIELD OR POOL
SECTION ___ BLOCK ___ SURVEY ___ COUNTY Lea STATE NM
SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Produced water - taken from Blinebry Federal NCT-1 tank battery #4 (heater-treater).
NO. 2 Produced water - taken from Blinebry Federal NCT-1 tank battery #6 (heater-treater).
NO. 3 Produced water - taken from Blinebry Federal NCT-1 tank battery #10 (heater-treater).
NO. 4 Produced water - taken from Blinebry Federal NCT-1 tank battery #11 (heater-treater).

REMARKS: Samples taken 5-28-86

CHEMICAL AND PHYSICAL PROPERTIES

	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.1155	1.1074	1.0936	1.0806
pH When Sampled	7.4	7.5	7.7	6.7
pH When Received	7.06	7.17	7.46	6.74
Bicarbonate as HCO_3	500	555	403	915
Supersaturation as $CaCO_3$	20	---	35	30
Undersaturation as $CaCO_3$	---	15	---	---
Total Hardness as $CaCO_3$	31,250	26,750	24,500	12,400
Calcium as Ca	7,040	5,840	5,680	3,020
Magnesium as Mg	3,317	2,952	2,503	1,179
Sodium and/or Potassium	54,772	48,839	46,182	41,772
Sulfate as SO_4	1,641	2,199	1,344	3,194
Chloride as Cl	105,108	92,325	87,353	70,309
Iron as Fe	1.9	6.5	0.92	0.02
Barium as Ba	0	0	0	0
Turbidity, Electric	40	36	21	18
Color as Pt	61	16	63	37
Total Solids, Calculated	172,378	152,710	143,465	120,388
Temperature °F.	60	69	81	61
Carbon Dioxide, Calculated	33	29	13	302
Dissolved Oxygen, Winkler	0.0	0.0	0.0	0.0
Hydrogen Sulfide	2.5	0.8	2.8	562
Resistivity, ohms/m at 77° F.	0.063	0.069	0.072	0.082
Suspended Oil	14	37	9	73
Filtrable Solids as mg/l	46.8	39.5	29.0	10.4
Volume Filtered, ml	205	1,650	900	2,880
	✓	✓	✓	✓

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks

WATERS CHECKED will be ones to be injected

Form No. 3

By ___

P. O. BOX 1468
MONAHANS, TEXAS 79756
PH 943-3234 OR 563-1040

Martin Water Laboratories, Inc.

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

RESULT OF WATER ANALYSES

TO: Mr. Greg Bowers
P.O. Box 1065, Eunice, NM 88231

LABORATORY NO. 586348 (Page 2)
SAMPLE RECEIVED 5-28-86
RESULTS REPORTED 6-6-86

COMPANY Texaco, Inc. LEASE A.H. Blinebry Federal
FIELD OR POOL
SECTION ___ BLOCK ___ SURVEY ___ COUNTY Lea STATE Texas
SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Produced water - taken from Blinebry Federal NCT-1 tank battery #13 (free water knockout).
NO. 2 Produced water - taken from Blinebry Federal NCT-2 tank battery #2 (heater-treater).
NO. 3 Produced water - taken from Blinebry Federal NCT-3 tank battery #5 (free water knockout).
NO. 4 Produced water - taken from Blinebry Federal NCT-3 tank battery #8 (heater-treater).

REMARKS: Samples taken 5-28-86

CHEMICAL AND PHYSICAL PROPERTIES	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0431	1.1278	1.1184	1.1159
pH When Sampled	7.4	7.4	7.3	7.3
pH When Received	7.37	7.12	6.73	6.98
Bicarbonate as HCO_3	500	271	439	317
Supersaturation as $CaCO_3$	35	0	—	16
Undersaturation as $CaCO_3$	—	—	15	—
Total Hardness as $CaCO_3$	9,500	36,500	37,750	34,500
Calcium as Ca	2,280	9,400	9,800	8,800
Magnesium as Mg	923	3,159	3,220	3,038
Sodium and/or Potassium	18,253	59,436	53,422	50,119
Sulfate as SO_4	1,641	1,213	1,265	960
Chloride as Cl	33,379	116,471	107,949	100,847
Iron as Fe	0.38	1.4	103	31.0
Barium as Ba	0	0	0	0
Turbidity, Electric	8	15	14	13
Color as Pt	10	21	79	26
Total Solids, Calculated	56,977	189,950	176,095	164,080
Temperature °F.	71	71	72	79
Carbon Dioxide, Calculated	33	18	36	26
Dissolved Oxygen, Winkler	0.0	0.0	0.0	0.0
Hydrogen Sulfide	32.5	1.6	0.0	0.0
Resistivity, ohms/m at 77° F.	0.145	0.060	0.062	0.065
Suspended Oil	5	14	6	7
Filtrable Solids as mg/l	11.8	5.6	23.2	21.6
Volume Filtered, ml	1,800	4,000	1,100	1,380
	✓			
Results Reported As Milligrams Per Liter				
Additional Determinations And Remarks				

Form No. 3

By ___

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I,_____

Robert L. Summers

of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period

of_____

One weeks.
Beginning with the issue dated

January 20, 1987
and ending with the issue dated

January 20, 1987

Robert L. Summers
Publisher.

Sworn and subscribed to before me this 20 day of January, 1987

Vera Murphy
Notary Public.

My Commission expires
Nov. 14, 1988
(Seal)

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

53 **LEGAL NOTICE**
JANUARY 20, 1987

Notice is hereby given of the application of Texaco Inc., Attention: L.J. Seeman, District Petroleum Engineer, P. O. Box 728, Hobbs, New Mexico, 88240, Telephone (505) 393-7191, to the Oil Conservation Division, New Mexico Energy & Minerals Department, for approval of the following injection well(s) for the purpose of salt water disposal:

Well(s) No(s).: 11

Lease/Unit Name: A.H. Blinebry FedNCT-1

Location: Unit Letter L, Section 28, T-22S, R-38-E, Lea County, New Mexico.

The injection formation is San Andres at a depth of 5030 feet below the surface of the ground. Expected maximum injection rate is 350 barrels per day, and expected maximum injection pressure is 990 pounds per square inch. Interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico, 87501, within fifteen (15) days of this publication.