Amoco Production Company (USA)
Post Office Box 68
Hobbs, New Mexico 88240

S. J. Okerson
District Superintendent

March 14, 1984

Case 8167

File: SJO-552-WF

Re: Application to Convert State "FU" No. 3
Lea County, New Mexico
to a Salt Water Disposal Well

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

Attention: Mr. Richard L. Stamets

Gentlemen:

Amoco Production Company hereby makes application for administrative approval to convert State "FU" No. 3 to a salt water disposal well. Form C-108 and the necessary documentation is attached. Your prompt consideration of this application will be appreciated.

If additional information is needed, contact Gary Clark (505) 393-1781.

Yours very truly,

S. J. Okerson

Attachments

cc: State of New Mexico
Energy and Minerals Department
Oil Conservation Division
P. O. Box 1980
Hobbs, NM 88240

State of New Mexico
Commissioner of Public Lands
P. O. Box 1148
Santa Fe, NM 87501

Scharbauer Cattle Company
Box 1471
Midland, TX 79701

HNG Oil Company
Box 2267
Midland, TX 79702

Wiser Oil Company
Box 2467
Hobbs, NM 88240

Mesa Petroleum Company
Box 1756
Hobbs, NM 88240

Bass Enterprises Production Company
Box 2760, 800 Vaughn Bldg.
Midland, TX 79701

Gulf Oil Exploration and Production Company
Box 670
Hobbs, NM 88240

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501

FORM C-108
Revised 7-1-81

Case 8167

APPLICATION FOR AUTHORIZATION TO INJECT

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

II. Operator: Amoco Production Company
Address: P.O. Box 68 Hobbs, New Mexico 88240
Contact party: John M. Breeden Phone: (505) 393-1781

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.

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MAR 19 1984
OIL CONSERVATION DIVISION
SANTA FE

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: Gary C. Clark Title Asst. Admin. Analyst

Signature: Gary C. Clark Date: 3-13-84

* 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 Division district office.

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

(1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.

(2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

(3) A description of the tubing to be used including its size, lining material, and setting depth.

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

(1) The name of the injection formation and, if applicable, the field or pool name.

(2) The injection interval and whether it is perforated or open-hole.

(3) State if the well was drilled for injection or, if not, the original purpose of the well.

(4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.

(5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

(1) The name, address, phone number, and contact party for the applicant;

(2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;

(3) the formation name and depth with expected maximum injection rates and pressures; and

(4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

STATE FU #3 (Conversion to SWD)

V. See Attachment I

VI. See Attachment II

VII. 1. 500 BWPD Avg
800 BWPD Max

2. System is closed

3. Average surface injection pressure - 0 psi
Maximum surface injection pressure - 500 psi

4. The produced water is currently from the Upper Bone Springs and Wolfcamp Horizons. There has also been production from the Lower Bone Springs in the past and this horizon may be produced at a future date. Even though the Upper and Lower Bone Springs are two different regulatory fields, they are of the same geologic age. As seen from the attached water analysis, the Upper and Lower Bone Springs waters are very similar and will be compatible. Also, Wolfcamp water is currently being produced in the offset State "FU" No. 1, which is downhole commingled with the Upper Bone Springs. In our application to downhole commingle the State "FU" No. 1 (Reference letter dated 9-19-83, File: SJO-1845-WF), we showed the Wolfcamp and Upper Bone Springs waters were compatible and have not seen anything to the contrary since downhole commingling. Therefore, the Wolfcamp water will also be compatible with the receiving formations. Therefore, all current and future productive horizons (Upper and Lower Bone Springs and Wolfcamp) are compatible and will be compatible with the receiving formations.

VIII. The injection zone is a cabonate formation with some sandstone, chert and shale. The geological name is the Bone Springs and it is 2800' in thickness. The top of the Bone Springs is at 3691' subsea.

Underground sources of drinking water in the area overlying the injection zone are the Ogallala (approx 3795' above sea level to 3800' above sea level) and the triassic (bottom at 2895' above sea level to 3795' above sea level).

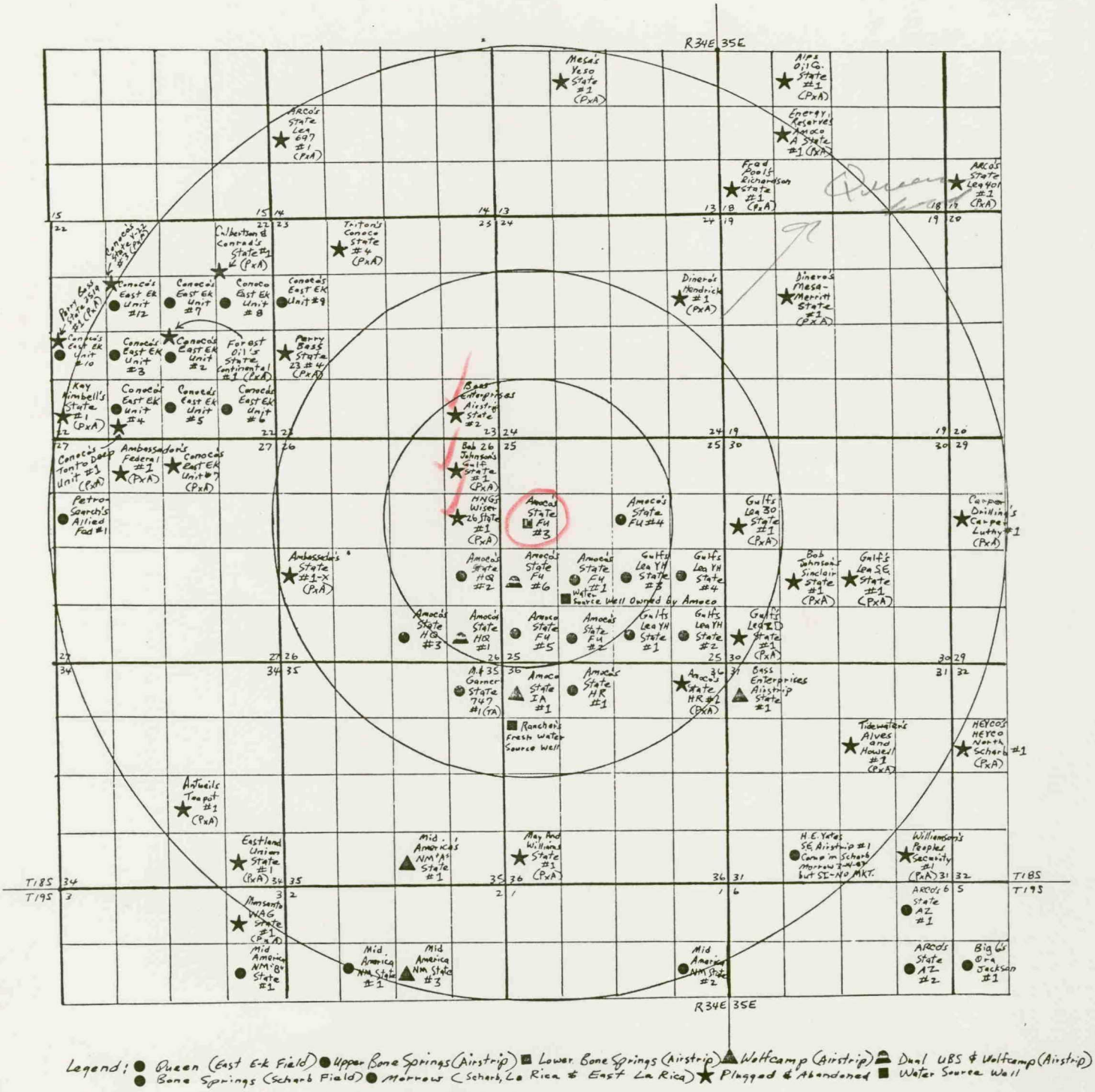
IX. We propose to perforate Upper Bone Springs intervals 9206-26', 9264-68', and 9277-85' then acidize these intervals with 3200 gal 15% NE HCL. No stimulation should be required for Lower Bone Springs 10,207-37'.

X. Logs on file with the NMOCD

XI. See Attachment III

JAW/tjt
EPPRI4-C

All Wells Within a Two Mile Radius of the Amoco Operated State FU Well No. 3 in Unit E of Section 25, T18S, R34E, in Lea County, NM



II

8. 1 of 17

PERTINENT DATA FOR WELLS
WITHIN AREA OF REVIEW

OPERATOR: Bass Enterprises (this is a PxA well)

WELL NAME: Airstrip State #2 (wellbore schematic attached)

LOCATION: 330/S x 660/E, Unit P, Sec 23, T-18-S, R-34-E

ELEVATION: 3982' GL 3994' DF 3995' KB

TD: 10,538' PBTD: surface (was 10,350')

CASING DATA

Hole Size	Size	Wt	Depth	Amt. of Cmt	Toc
17½	13⅜	48-54.5	489	350	Circ
12¼	9⅝	36-40	3871	1700	Circ
8¾	5½	15.5-17	10538	500	Calc at 7925

PRODUCING INTERAL: was Lower Bone Springs - Now PxA
Perfs 10,050 - 10,082

COMPLETION DATE: 07-09-80 (PxA 12-23-83)

CURRENT STATUS: PxA

COMMENTS: CIBP at 10,000' w/35' cmt cap. 20 sx 7625-7525.
50 sx 3750-4000. 35 sx 2900-3000. 10 sx at surface.

* Note: Must attach a wellbore schematic for all PxA wells illustrating details.

LWS/yaj
738/H

Amoco Production Company

ENGINEERING CHART

FILE

APPN

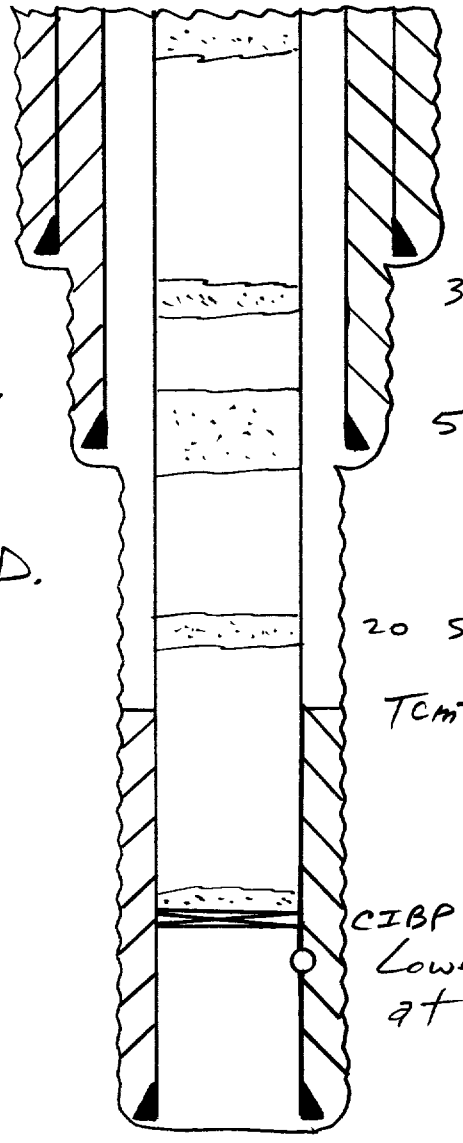
DATE

BY

SUBJECT A Wellbore Schematic of the Airstrip State #2 operated by Bass Enterprises

Well was drilled in 1980 and PxA 12-23-83

Location: 330/S x 660/E, Unit P, Sect. 23, T-18-S, R-34-E



10 SX CMT AT SURFACE

35 SX CMT 2900'-3000'

50 SX CMT 3750'-4000'

20 SX CMT 7525'-7625'

Tcmt calc at 7925'

CIBP AT 10,000' W/35' CMT CAP

Lower Bone Springs perfs at 10,050'-10,082'

13 3/8" 48-54.5#
CSA 489' IN
17 1/2" HOLE WITH
350 SX. CIRCULATED.

9 5/8" 36-40#
CSA 3871' IN
12 1/4" HOLE WITH
1700 SX. CIRCULATED.

5 1/2" 15.5-17#
CSA 10,538' IN
8 3/4" HOLE WITH
500 SX. Tcmt
Calculated at 7925'

Form 371 2-71

PERTINENT DATA FOR WELLS
WITHIN AREA OF REVIEW

OPERATOR: Houston Natural Gas (this is a PxA well)

WELL NAME: Wiser 26 State #1 (wellbore schematic attached)

LOCATION: 1910/N x 660/E, Unit H, Sec 26, T-18-S, R-34-E

ELEVATION: 3979 GL _____ DF _____ KB

TD: 10,880 PBTD: Surface

Spudded 10-04-80 CASING DATA

Hole Size	Size	Wt	Depth	Amt. of Cmt	Toc
17½	13⅜	48-H40	317	450	Circ
12¼	9⅝	36-K55	4000	2400	Circ
8¾	7	17-N80 and 17-K55	10,880	800	Calc at 3855

PRODUCING INTERAL: PxA on 01-23-81 (See comments)
Wolfcamp perfs 10,599-10,610 w/1 spf sqzd w/125 sx

COMPLETION DATE: TD reached on 11-04-80
PxA complete on 01-23-81

CURRENT STATUS: PxA

COMMENTS: Perf Bone Springs 9137-9378 gross. Set cmt ret at 8916. Sq perfs w/125 sx and leave 25 sx on top of cmt ret. Spot 50 sx 4000-4250. Spot 50 sx 350-600. Well on Cap.

* Note: Must attach a wellbore schematic for all PxA wells illustrating details.

LWS/yaj
738/H

Amoco Production Company

ENGINEERING CHART

FILE

APPN

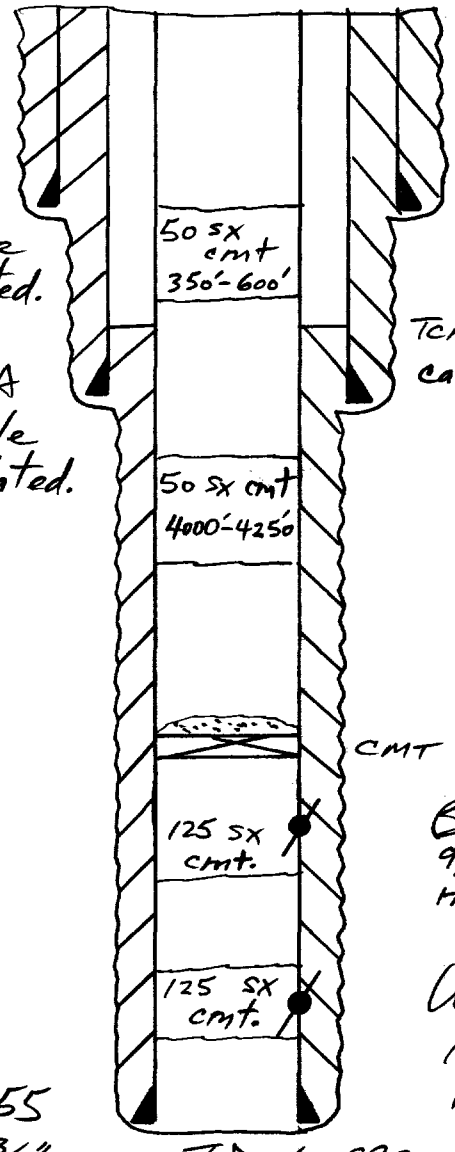
DATE

BY

SUBJECT A Wellbore Schematic of the Wiser 26 State #1 operated by HNG

Well was drilled in 1980 and P x A 01-23-81

Location: 1910/N x 660/E, Unit H, Sect. 26, T-18-S, R-34-E



13 3/8" 48# H40 CSA 317' in a 17 1/2" hole with 450 sx. Circulated.

9 5/8" 36# K55 CSA 4000' in a 12 1/4" hole with 2400 sx. Circulated.

Tcmt behind 7" csg calculated at 3855'

CMT RET AT 8916' W/25 SX ON TOP

Bone Springs perfs 9,137'-9,378' now sqzd W/125 SX

Wolfcamp perfs 10,599'-10,610' W/1 spf now sqzd with 125 sx

7" 17# N80 and K55 CSA 10,880' in a 8 3/4" hole with 800 sx. Tcmt Calculated at 3855'.

TD 10,880

Form 371 2-71

p. 5 of 17

PERTINENT DATA FOR WELLS
WITHIN AREA OF REVIEW

OPERATOR: Bob Johnson (this is a PxA well)

WELL NAME: Gulf State #1 (wellbore schematic attached)

LOCATION: 660/N x 660/E, Unit A, Sec 26, T-18-S, R-34-E

ELEVATION: 3979 GL _____ DF _____ KB

TD: 4643 PBTD: Surface

Spudded 05-28-57 CASING DATA

Hole Size	Size	Wt	Depth	Amt. of Cmt	Toc
17	13 3/8	48	250	200	Circ
11	8 5/8	28	1896	all pulled when PxA	

PRODUCING INTERAL: PxA on 06-27-57

COMPLETION DATE: Never completed
(plugged before drilling completed)

CURRENT STATUS: PxA

COMMENTS: 20 sx cmt 4500-4610; 20 sx cmt 3150-3230
20 sx cmt 1920-2030; 20 sx cmt 230-260;
10 sx cmt at surface; 10 # drilling mud
placed between all plugs.

* Note: Must attach a wellbore schematic for all PxA wells illustrating details.

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738/H

Amoco Production Company

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FILE

APPN

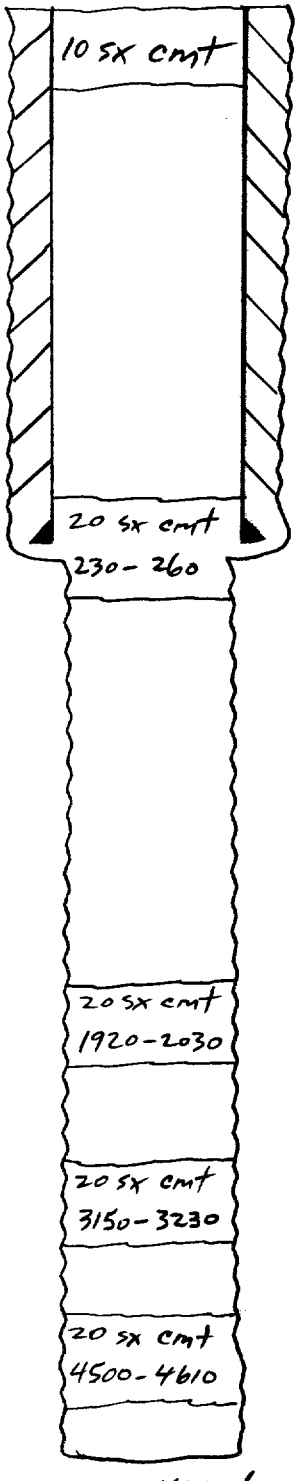
DATE

BY

SUBJECT A Wellbore Schematic of the Gulf State #1 operated by Bob Johnson

Well was spudded 05-28-57 and PxA 06-27-57

Location: 660/N x 660/E, Unit A, Sect. 26, T-18-S, R-34-E



10 # drilling mud between all plugs

13 3/8" 48# CSA 250' w/200 sx in a 17" hole. Cmt Circ.

PERTINENT DATA FOR WELLS
WITHIN AREA OF REVIEW

OPERATOR: Amoco Production Company

WELL NAME: State FU # 1

LOCATION: 1980/s X 1980/w, Unit K, Sec 25, T-18-S, R-34-E

ELEVATION: 3966 GL 3985 DF 3986 KB

TD: 13,489 PBTD: 10,485

CASING DATA

Hole Size	Size	Wt	Depth	Amt. of Cmt	Toc
17½	13 3/8	48	431	475	Circ
12¼	9 5/8	32.3-36	4697	3770	Circ
8 3/4	7 5/8	26.4-29.7	12,140	490	4800

PRODUCING INTERAL: Upper Bone Springs
Perfs 8317-9370 Gross

COMPLETION DATE: 07-05-83

CURRENT STATUS: Active

COMMENTS: None

* Note: Must attach a wellbore schematic for all PxA wells illustrating details.

LWS/yaj
738/H

8317-8346 } 2 spf

9182-9201
9216-30 } 4 spf
9240-59

9302-08
9312-17
9322-28
9332-36 } 2 spf
9356-62
9366-70

PERTINENT DATA FOR WELLS
WITHIN AREA OF REVIEW

OPERATOR: Amoco Production Company

WELL NAME: State FU #2

LOCATION: 960/S x 1980/W, Unit N, Sec 25, T-18-S, R-34-E

ELEVATION: 3968 GL _____ DF _____ KB

TD: 10,800 PBTD: 10,065

CASING DATA

Hole Size	Size	Wt	Depth	Amt. of Cmt	Toc
17 1/2	13 3/8	48	300	300	Circ
12 1/4	9 5/8	40	3999	1590	Circ
8 3/4	5 1/2	17-23	10,800	1970	905

PRODUCING INTERAL: Upper Bone Springs
Perfs 9227-9435 gross

COMPLETION DATE: 09-07-82

CURRENT STATUS: Active

COMMENTS: CIBP at 10,100 capped w/35' cmt isolates Lower Bone Springs perfs at 10,262 - 10,272 (2 spf)

* Note: Must attach a wellbore schematic for all PxA wells illustrating details.

LWS/yaj
738/H

9227-33
9372-79
9384-9435

} 2 spf

PERTINENT DATA FOR WELLS
WITHIN AREA OF REVIEW

OPERATOR: Amoco Production Company

WELL NAME: State FU #3

LOCATION: 1700/N x 660/W, Unit E, Sec 25, T-18-S, R-34-E

ELEVATION: 3975 GL _____ DF _____ KB

TD: 10,800 PBTD: 10,315

CASING DATA

Hole Size	Size	Wt	Depth	Amt. of Cmt	Toc
17½	13 3/8	48	320	300	Circ
12¼	9 5/8	40	4000	1500	Circ
8 3/4	7	20-26	10,800	1400	6258

PRODUCING INTERAL: Lower Bone Springs
Perfs 10,207 - 10,237

COMPLETION DATE: 03-20-80

CURRENT STATUS: Shut-in since 11/80

COMMENTS: Authorization is requested to inject produced water into this well.

* Note: Must attach a wellbore schematic for all PxA wells illustrating details.

LWS/yaj
738/H

PERTINENT DATA FOR WELLS
WITHIN AREA OF REVIEW

OPERATOR: Amoco Production Company

WELL NAME: State FU #5

LOCATION: 785/s x 825/w, Unit M, Sec 25, T-18-S, R-34-E

ELEVATION: 3971 GL _____ DF _____ KB

TD: 10,900 PBTD: 10,886

CASING DATA

Hole Size	Size	Wt	Depth	Amt. of Cmt	Toc
17 1/2	13 3/8	48	315	350	Circ
11	8 5/8	24-28	4031	1300	1470
7 7/8	5 1/2	15-17	10,900	2600	Circ

PRODUCING INTERAL: Upper Bone Springs
Perfs 9246-9367 gross

COMPLETION DATE: 07-13-83

CURRENT STATUS: Active

COMMENTS: None

* Note: Must attach a wellbore schematic for all PxA wells illustrating details.

LWS/yaj
738/H

9246-45
56-64
68-72
78-83
86-9303
9315-30
41-45
54-60
65-67

} 2 spf

PERTINENT DATA FOR WELLS
WITHIN AREA OF REVIEW

OPERATOR: Amoco Production Company

WELL NAME: State FU #4

LOCATION: 1980/N x 1980/E, Unit G, Sec 25, T-18-S, R-34-E

ELEVATION: 3965 GL _____ DF _____ KB

TD: 10,800 PBTD: 10,755

CASING DATA

Hole Size	Size	Wt	Depth	Amt. of Cmt	Toc
17½	13⅜	48	300	350	Circ
12¼	9⅝	40	4005	1555	Circ
8¾	5½	17-23	10,800	2250	2465

PRODUCING INTERAL: Wolfcamp
Perfs 10,516 – 10,588 gross

COMPLETION DATE: 06-18-80

CURRENT STATUS: TA

COMMENTS: Operator proposes to recomplete from Wolfcamp to Upper Bone Springs at 9356–9385

* Note: Must attach a wellbore schematic for all PxA wells illustrating details.

LWS/yaj
738/H

10,516-20
10,564-76
10,580-88
} 2 spf

PERTINENT DATA FOR WELLS
WITHIN AREA OF REVIEW

OPERATOR: Amoco Production Company

WELL NAME: State FU #6

LOCATION: 1980/s x 750/w, Unit L, Sec 25, T-18-S, R-34-E

ELEVATION: 3951 GL _____ DF _____ KB

TD: 10,900 PBTD: 9,340

CASING DATA

Hole Size	Size	Wt	Depth	Amt. of Cmt	Toc
17½	13⅜	48	318	350	Circ
11	8⅝	24-28	4000	1900	Circ
7⅞	5½	15.5	10,900	1650	3390

PRODUCING INTERAL: Proposed dual Upper Bone Springs and Wolfcamp
Perfs 9310 - 9330 gross

COMPLETION DATE: Incomplete

CURRENT STATUS: Evaluating

COMMENTS: None

* Note: Must attach a wellbore schematic for all PxA wells illustrating details.

LWS/yaj
738/H

~~9278-9301~~

~~9303-06~~

~~09-20~~

~~22-30~~

~~32-40~~

~~44-58~~

~~60-67~~

~~73-82~~

9310-18
9322-30 } 4 spf

PERTINENT DATA FOR WELLS
WITHIN AREA OF REVIEW

OPERATOR: Amoco Production Company

WELL NAME: State HQ #1

LOCATION: 960/S x 330/E, Unit P, Sec 26, T-18-S, R-34-E

ELEVATION: 3975 GL _____ DF _____ KB

TD: 10,850 PBTD: 10,799

CASING DATA

Hole Size	Size	Wt	Depth	Amt. of Cmt	Toc
17 1/2	13 3/8	48	302	325	Circ
12 1/4	9 5/8	40	4003	1550	Circ
8 3/4	7	20-26	10,850	975	Calc @ 2290

PRODUCING INTERAL: dual Upper Bone Springs and Wolfcamp
UBS perfs 9288-9337 gross - Wolfcamp 10,626-10,694 gross

COMPLETION DATE: 03-26-80

CURRENT STATUS: Active

COMMENTS: None

* Note: Must attach a wellbore schematic for all PxA wells illustrating details.

LWS/yaj
738/H

9288-9300
9305-12
15-23
25-37

} 2 spf

RBP at 10,400 capped w/sand

Wolfcamp

10626-640
644-650
653-662
667-678
687-694

} 2 SPF

PERTINENT DATA FOR WELLS
WITHIN AREA OF REVIEW

OPERATOR: Amoco Production Company

WELL NAME: ~~State~~ HQ #2

LOCATION: 1780/S x 480/E, Unit I, Sec 26, T-18-S, R-34-E

ELEVATION: 3975 GL _____ DF _____ KB

TD: 10,800 PBTD: 10,465

CASING DATA

Hole Size	Size	Wt	Depth	Amt. of Cmt	Toc
17 1/2	13 3/8	48	295	350	Circ
12 1/4	9 5/8	40	3970	2075	Circ
8 3/4	7	23-29	10,800	1700	3925

PRODUCING INTERAL: Upper Bone Springs
Perfs 9152 - 9196 gross

COMPLETION DATE: 07-07-81

CURRENT STATUS: Active

COMMENTS: RBP at 9212 isolates UBS perfs at 9230 - 9474 gross and CIBP at 10,500 w/35' cmt cap isolates Wolfcamp perfs 10,636 - 10,675 gross

Note: Must attach a wellbore schematic for all PxA wells illustrating details.

LWS/yaj
738/H

9152-62
9190-96

~~RBP~~ @ 9212

9230-32
64-67
76-78
99-9306
13-24
29-34
66-70
76-90
93-9403
57-63
68-74

} 2 spf

~~CIBP~~ @ 10,500 35' CMT

10 636 - 10 654
665 - 675

} 2 spf

PERTINENT DATA FOR WELLS
WITHIN AREA OF REVIEW

OPERATOR: Amoco Production Company

WELL NAME: State HQ #3

LOCATION: 660/S x 1980/E, Unit O, Sec 26, T-18-S, R-34-E

ELEVATION: 3980 GL _____ DF _____ KB

TD: 10,900 PBTD: 10,835

CASING DATA

Hole Size	Size	Wt	Depth	Amt. of Cmt	Toc
17 1/2	13 3/8	48	310	350	Circ
12 1/4	8 5/8	24-28	4000	2900	Circ
7 7/8	5 1/2	17	10,899	2500	Circ

PRODUCING INTERAL: Upper Bone Springs
Perf, 9372 -9562

COMPLETION DATE: 01-10-84

CURRENT STATUS: Active

COMMENTS: None

* Note: Must attach a wellbore schematic for all PxA wells illustrating details.

LWS/yaj
738/H

p. 16 & 17

PERTINENT DATA FOR WELLS
WITHIN AREA OF REVIEW

OPERATOR: Gulf Oil Corp.

WELL NAME: Lea YH State # 1

LOCATION: 760/S x 1980/E, Unit O, Sec 25, T-18-S, R-34-E

ELEVATION: 3949 GL _____ DF _____ KB

TD: 10,770 PBTD: 10,465

CASING DATA

Hole Size	Size	Wt	Depth	Amt. of Cmt	Toc
15	11 3/4	42	288	450	Circ
11	8 5/8	24	3897	1050	Circ
7 7/8	5 1/2	15.5-17	10,770	700	7800

PRODUCING INTERAL: ~~Upper~~ Bone Springs
Perfs 9197-9207 Met

COMPLETION DATE: 03-26-79

CURRENT STATUS: Active

COMMENTS: RBP at 9320 capped w/2 sx sand isolates perfs 9329-9392 gross and RBP at 9250 capped w/2 sx sand isolates perfs 9272-9296 gross

* Note: Must attach a wellbore schematic for all PxA wells illustrating details.

LWS/yaj
738/H

9197-9207

RBP @ 9250 w/ 2 sx sand cap

9272-74

9287-89

9294-96

RBP @ 9320 w/ 2 sx sand cap

9329-31

39-41

51-53

64-66

73-75

81-83

90-92

2 spf

PERTINENT DATA FOR WELLS
WITHIN AREA OF REVIEW

OPERATOR: Gulf Oil Corp.

WELL NAME: Lea YH State #3

LOCATION: 1980/S x 1980/E, Unit J, Sec 25, T-18-S, R-34-E

ELEVATION: 3965 GL _____ DF _____ KB

TD: 10,800 PBTD: 10,760

CASING DATA

Hole Size	Size	Wt	Depth	Amt. of Cmt	Toc
15	11 3/4	42	300	250	Circ
11	8 5/8	28	3475	1100	Circ
7 7/8	5 1/2	15.5-17	10,800	700	7150

PRODUCING INTERAL: Upper Bone Springs
Perf- 9334-9410 Grayburg

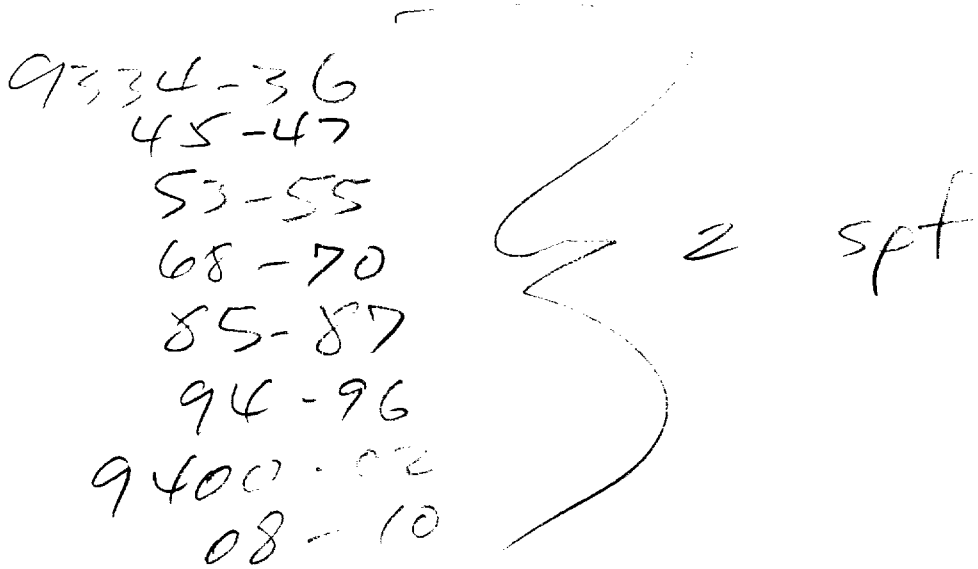
COMPLETION DATE: 01-12-80

CURRENT STATUS: Active

COMMENTS: None

* Note: Must attach a wellbore schematic for all PxA wells illustrating details.

LWS/yaj
738/H


93-34-36
45-47
53-55
68-70
85-87
94-96
9400-02
08-10
2 spt

INJECTION WELL DATA SHEET

Amoco Production Comp. (OPERATOR) STATE FL (LEASE)

3	1700'FNL x 660'FWL	25	18-S	34-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

Schematic

(SEE ATTACHED Wellbore SKETCHES)

Tabular Data

Surface Casing

Size 13 3/8" Cemented with 300 sx.

TOC Circ. 105xs feet determined by _____

Hole size 17 1/2"

Intermediate Casing

Size 9 5/8" Cemented with 1500 sx.

TOC Circ. 75 Sxs feet determined by _____

Hole size 12 1/4"

Long string

Size 7" Cemented with 1400 sx.

TOC 6285 feet determined by Temp Survey

Hole size 8 3/4"

Total depth 10,802'

Injection interval

9206'-9285' AND 10,207'-37' feet

(perforated or open-hole, indicate which)

Tubing size 2 7/8" lined with PLASTIC (material) set in a

BAKER LOCKSET (Plastic COATED) (brand and model) packer at 9100' feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Bone Springs
2. Name of Field or Pool (if applicable) AirSTRIP (Upper Bone Springs) and AirStrip (Lower Bone Springs)
3. Is this a new well drilled for injection? ☐ Yes ☒ No

   If no, for what purpose was the well originally drilled? THE WELL WAS DRILLED With THE INTENT TO DUAL Complete the Upper Bone Springs w/ WOLFCAMP
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) PERFORATE WOLFCAMP 10,374'-621' x 10,744'-66'. ABANDONED W/ CIBP @ 10,350' x CAP W/ 35' CMT. PERF UPPER BONE SPRINGS 9285'-70' (OA) x SQUEEZED perfs W/ 250SXS CMT. PERF LOWER BONE SPRINGS 10,207'-37'. ZONE CURRENTLY SHUT-IN DUE TO APPARENT DEPLETION.
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. UNDERLYING PROPOSED INTERVAL IS THE WOLFCAMP HORIZON THERE IS NO EVIDENT OIL OR GAS HORIZON OVERLYING ZONE OF INTEREST

AMOCO

Amoco Production Company

ENGINEERING CHART

SHEET NO. OF

FILE

APPN

DATE 12/2/82

BY JWL/JSW

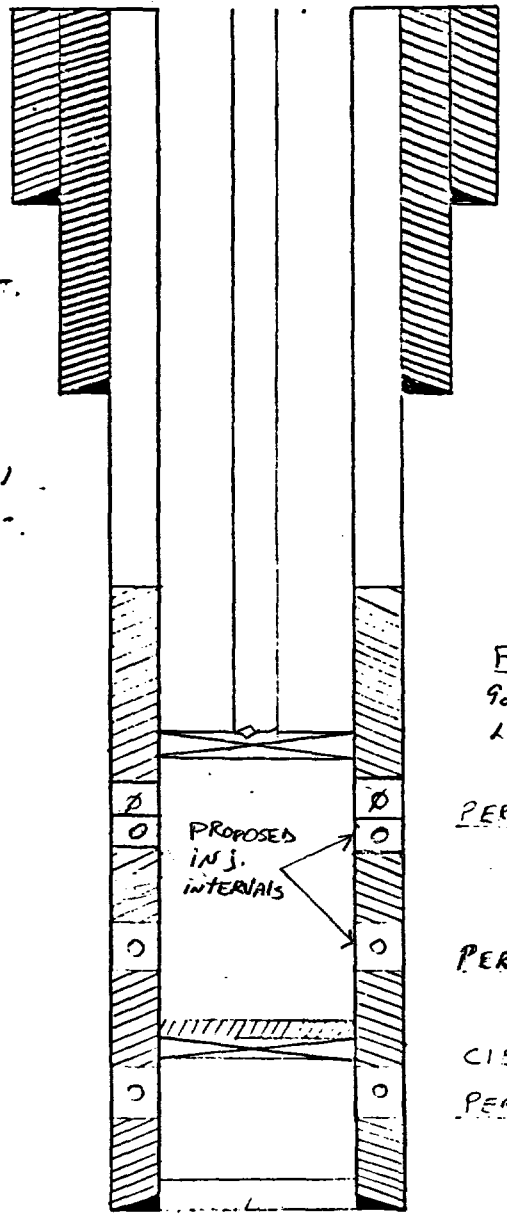
SUBJECT STATE "FU" No. 3 (PROPOSED)

AIRSTRIP - LOWER BONE SPRINGS

UNIT E, 1700' FNL x 660' FWL, SEC. 25, T-18-S, R-34-E
LEA COUNTY, NEW MEXICO

ELEVATION: 3975 G.L.
3995 R.D.B.

COMPLETED: 3-20-80



13 3/8" CSA 320'.
48# K-55 ST&C.
CMT w/ 300 SX IN
17 1/2" HOLE. CIRC CMT.

9 5/8" CSA 4000'.
36# K-55
CMT w/ 1500 SX IN
12 1/4" HOLE. CIRC CMT.

7" CSA 10802'.
23# C-95
26# K-55
29# N-80
CMT w/1400 SXS IN
8 3/4" HOLE.
TCMT 6258' BY
TEMP SURVEY

INTERNALLY PLASTIC COATED
2 7/8" 6.5# N-80 Tbg LA 9100'
IN BAKER LOCKSET (PLASTIC COATED)

PROPOSED INJ. INTERVALS: Upper Bone Springs -
9206'-26', 9264'-68' x 9277'-85'
Lower Bone Springs - 10,207'-37'

PERFS (UPPER BONE SPRINGS): 9205-15 x
9260-70 w/ 2 JSPF. SQUEEZED.

PERFS (LOWER BONE SPRINGS): 10207-37
w/ 2 JSPF
CIBP @ 10350' CAPPED W/ 35' CMT.
PERFS (WOLFCAMP): 10574-621 x
10744-66 w/ 2 JSPF

ATTACHMENT No. 7

Form 331 221

Amoco Production Company

ENGINEERING CHART

SHEET NO. OF

FILE

APPN

DATE 12/2/82

BY JWL

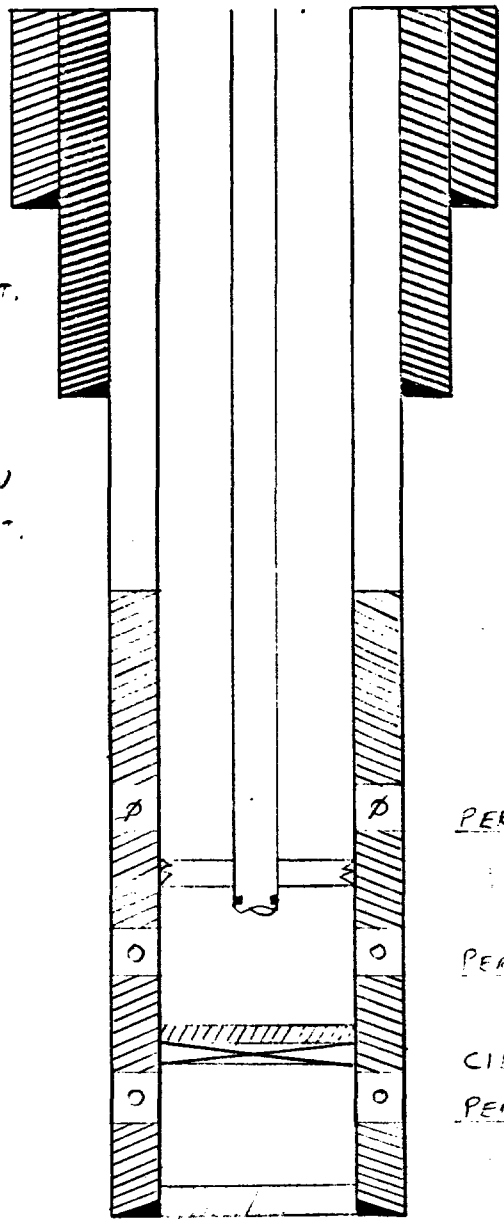
SUBJECT STATE "FU" No. 3 (CURRENT)

AIRSTRIP - LOWER BONE SPRINGS

UNIT E, 1700' FNL x 660' FWL, SEC. 25, T-18-S, R-34-E
LEA COUNTY, NEW MEXICO

ELEVATION: 3975 G.L.
3995 R.D.B.

COMPLETED: 3-20-80



13 3/8" CSA 320'.
48# K-55 ST&C.
CMT w/ 300 SX IN
17 1/2" HOLE. CIRC CMT.

9 5/8" CSA 4000'.
36# K-55
CMT w/ 1500 SX IN
12 1/4" HOLE. CIRC CMT.

2 7/8" 6.5# N-80 8RD EUE
TBG LANDED AT 10280' w/
SEATING NIPPLE ON BTM.
2 7/8" x 7" TBG ANCHOR @
10,162'.

PERFS (UPPER BONE SPRINGS): 9205-15 x
9260-70 w/ 2 JSPF. SQUEEZED.

PERFS (LOWER BONE SPRINGS): 10207-37
w/ 2 JSPF
CIBP @ 10350' CAPPED W/ 35' CMT.
PERFS (WOLFCAMP): 10574-621 x
10744-66 w/ 2 JSPF

7" CSA 10802'.
23# S-95
26# K-55
29# N-80
CMT w/ 1400 SX IN
8 3/4" HOLE.
TOMT 5258' BY
TEMP SUR.

TD: 10,802'
PBD: 10,315'

ATTACHMENT No. 7

Form 371 2/71

O. BOX 1468
ANS, TEXAS 79756
43-3234 OR 563-1040

Martin Water Laboratories, Inc

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

RESULT OF WATER ANALYSES

LABORATORY NO. 780318

TO: Mr. V. E. Staley
P.O. Box 68, Hobbs, New Mexico

SAMPLE RECEIVED 7-25-80

RESULTS REPORTED 7-31-80

COMPANY Amoco Production Company LEASE State "FU" #3

FIELD OR POOL Air Strip

SECTION ___ BLOCK ___ SURVEY ___ COUNTY Lea STATE New Mexico

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Produced water - taken from State "FU" #3, 7-17-80

NO. 2

NO. 3 Lower Bone Spring

NO. 4

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES

	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0701			
pH When Sampled				
pH When Received	6.4			
Bicarbonate as HCO_3	317			
Supersaturation as $CaCO_3$				
Undersaturation as $CaCO_3$				
Total Hardness as $CaCO_3$	18,200			
Calcium as Ca	4,560			
Magnesium as Mg	1,652			
Sodium and/or Potassium	29,862			
Sulfate as SO_4	2,640			
Chloride as Cl	56,815			
Iron as Fe	230			
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	95,846			
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				
Hydrogen Sulfide	0.0			
Resistivity, ohms/m at 77° F.	0.097			
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks We are not familiar with the circumstances herein, but we do note in comparing analyses that this water shows to be decidedly similar to what we have recorded as Bone Springs in the nearby Pearl field.

Form No. 3

By Waylan C. Martin, M. A.

UNICHEM INTERNATIONAL

601 NORTH LEECH P.O.BOX1499

HOBBS, NEW MEXICO 88240

OMPANY : AMOCO
ATE : 2-3-84
IELD,LEASE&WELL : UPPER BONE SPRINGS STATE HC #1
AMPLING POINT: HEATER TREATER
ATE SAMPLED : 1-30-84

PECIFIC GRAVITY = 1.125
OTAL DISSOLVED SOLIDS = 184528
ESISTIVITY AT 71F IS .054 OHMS
H = 6.68

		ME/L	MG/L
CATIONS			
ALCIUM	(CA)+2	153.	3072.
AGNESIUM	(MG)+2	106.	1296.
ODIUM	(NA),CALC.	2907.	66839.
ANIONS			
ICARBONATE	(HCO3)-1	6.4	390.
ARBONATE	(CO3)-2	0	0
YDROXIDE	(OH)-1	0	0
ULFATE	(SO4)-2	60.9	2928.
HLORIDES	(CL)-1	3100	110000
DISSOLVED GASES			
ARBON DIOXIDE	(CO2)	NOT RUN	
YDROGEN SULFIDE	(H2S)	NOT RUN	
XYGEN	(O2)	NOT RUN	
RON(TOTAL)	(FE)		16.1
ARIUM	(BA)+2	NOT RUN	
ANGANESE	(MN)	NOT RUN	

ONIC STRENGTH (MOLAL) =3.546

SCALING INDEX	TEMP
	30C 86F
ARBONATE INDEX	.533
ALCIUM CARBONATE SCALING	LIKELY
ALCIUM SULFATE INDEX	-12.
ALCIUM SULFATE SCALING	UNLIKELY

UNICHEM INTERNATIONAL

601 NORTH LEECH P.O.BOX1499

HOBBS, NEW MEXICO 88240

OMPANY : AMOCO
ATE : 2-3-84
IELD,LEASE&WELL : ~~[illegible]~~ Upper Bone Springs STATE IA #1
AMPLING POINT. TANK
ATE SAMPLED ~~1-30-84~~

PECIFIC GRAVITY = 1.118
OTAL DISSOLVED SOLIDS = 176709
ESISTIVITY AT 71F IS .056 OHMS
H = 6.88

		ME/L	MG/L
CATIONS			
ALCIUM	(CA)+2	160	3206.
AGNESIUM	(MG)+2	140	1701.
ODIUM	(NA),CALC.	2765.	63578.
ANIONS			
ICARBONATE	(HCO3)-1	6	366.
ARBONATE	(CO3)-2	0	0
YDROXIDE	(OH)-1	0	0
ULFATE	(SO4)-2	59.4	2857.
HLORIDES	(CL)-1	3000	105000
DISSOLVED GASES			
ARBON DIOXIDE	(CO2)	NOT RUN	
YDROGEN SULFIDE	(H2S)	NOT RUN	
XYGEN	(O2)	NOT RUN	
RON(TOTAL)	(FE)		14
ARIUM	(BA)+2	NOT RUN	
ANGANESE	(MN)	NOT RUN	

ONIC STRENGTH (MOLAL) =3.43

SCALING INDEX	TEMP
	30C 86F
ARBONATE INDEX	.688
ALCIUM CARBONATE SCALING	LIKELY
ALCIUM SULFATE INDEX	-11.
ALCIUM SULFATE SCALING	UNLIKELY

UNICHEM INTERNATIONAL

601 NORTH LEECH P.O.BOX1499

HOBBS, NEW MEXICO 88240

COMPANY : AMOCO
DATE : 2-6-84
FIELD,LEASE&WELL : BONE SPRINGS STATE FU #6
SAMPLING POINT: WELLHEAD
DATE SAMPLED : 2-2-84

SPECIFIC GRAVITY = 1.134
TOTAL DISSOLVED SOLIDS = 198880
PH = 6

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	206.	4141.
MAGNESIUM	(MG)+2	163.	1985.
SODIUM	(NA),CALC.	3086.	70967.
ANIONS			
BICARBONATE	(HCO3)-1	4	244.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	52.9	2541.
CHLORIDES	(CL)-1	3400	119000
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON(TOTAL)	(FE)		18.5
BARIUM	(BA)+2	NOT RUN	
MANGANESE	(MN)	NOT RUN	

IONIC STRENGTH (MOLAL) =3.906

SCALING INDEX	TEMP
	30C 86F
CARBONATE INDEX	-.10
CALCIUM CARBONATE SCALING	UNLIKELY
CALCIUM SULFATE INDEX	-3.9
CALCIUM SULFATE SCALING	UNLIKELY

IONIC STRENGTH IS TOO HIGH FOR CARBONATE METHOD

XI

III

UNICHEM INTERNATIONAL

601 NORTH LEECH P.O.BOX1499

HOBBS, NEW MEXICO 88240

COMPANY : AMOCO
DATE : 3-2-84
FIELD,LEASE&WELL . RANCH HOUSE BY STATE FU
SAMPLING POINT.
DATE SAMPLED : 2-27-84

SPECIFIC GRAVITY = 1
TOTAL DISSOLVED SOLIDS = 344
PH = 8.11

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	2.4	48.1
MAGNESIUM	(MG)+2	1.4	17.0
SODIUM	(NA),CALC.	1.2	28.7
ANIONS			
BICARBONATE	(HCO3)-1	2.6	158.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	.45	21.5
CHLORIDES	(CL)-1	2	70
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON(TOTAL)	(FE)		1.1
BARIUM	(BA)+2	0	.3
MANGANESE	(MN)	NOT RUN	

IONIC STRENGTH (MOLAL) =7E-03

SCALING INDEX	TEMP
	30C
	86F
CARBONATE INDEX	2.95
CALCIUM CARBONATE SCALING	LIKELY
CALCIUM SULFATE INDEX	-18.
CALCIUM SULFATE SCALING	UNLIKELY

XI

III

UNICHEM INTERNATIONAL

601 NORTH LEECH P.O.BOX1499

HOBBS, NEW MEXICO 88240

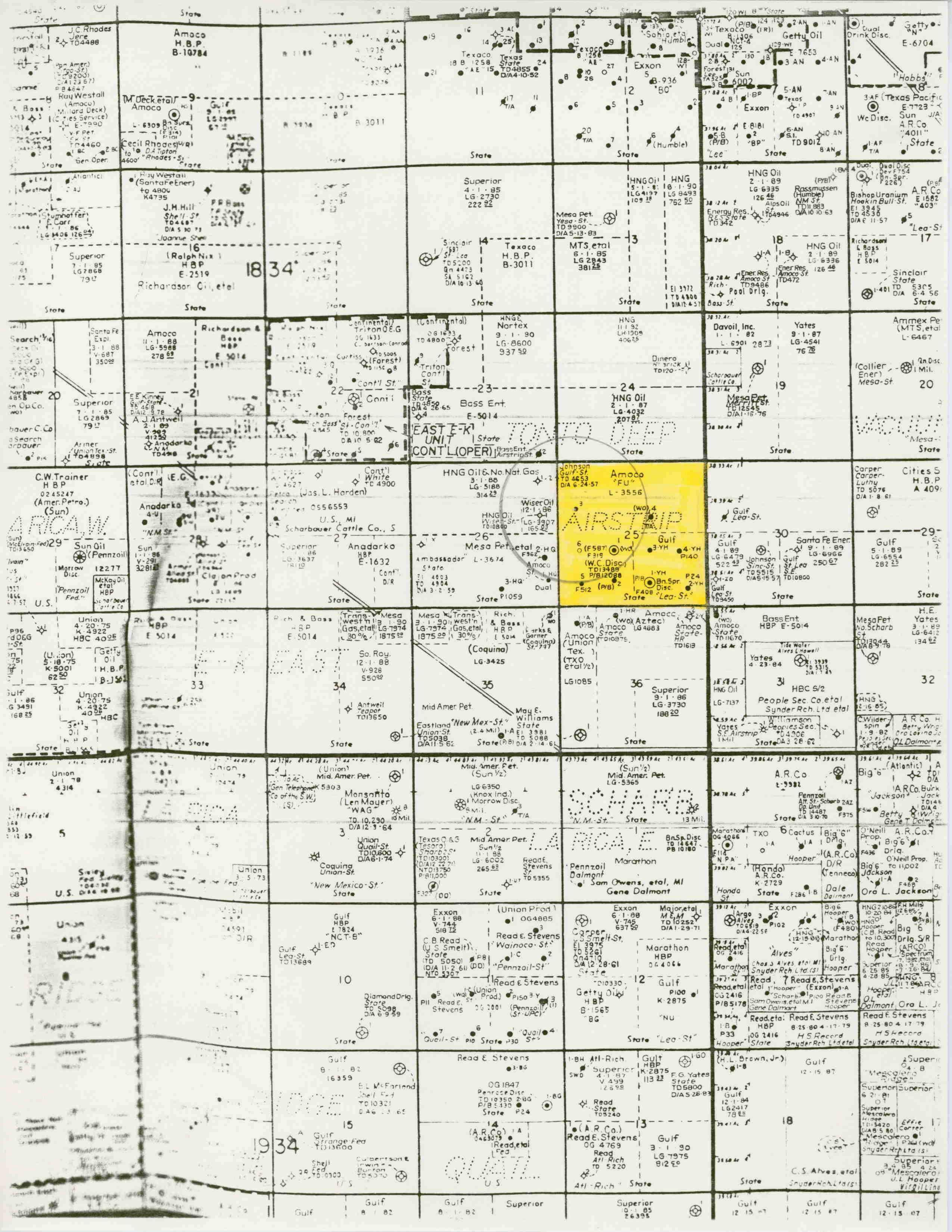
OMPANY : AMOCO
ATE : 3-2-84
IELD,LEASE&WELL : STATE FU WATER WELL
AMPLING POINT:
ATE SAMPLED : 2-27-84

PECIFIC GRAVITY = 1
OTAL DISSOLVED SOLIDS = 374
H = 8.18

		ME/L	MG/L
CATIONS			
ALCIUM	(CA)+2	2.2	44.0
AGNESIUM	(MG)+2	2.4	29.1
ODIUM	(NA),CALC.	.84	19.3
ANIONS			
ICARBONATE	(HCO3)-1	2.8	170.
ARBONATE	(CO3)-2	0	0
YDROXIDE	(OH)-1	0	0
ULFATE	(SO4)-2	.64	30.5
HLORIDES	(CL)-1	2	50
DISSOLVED GASES			
ARBON DIOXIDE	(CO2)	NOT RUN	
YDROGEN SULFIDE	(H2S)	NOT RUN	
XYGEN	(O2)	NOT RUN	
RON(TOTAL)	(FE)		7.8
ARIUM	(BA)+2	0	.3
IANGANESE	(MN)	NOT RUN	

ONIC STRENCTH (MOLAL) =8E-03

SCALING INDEX	TEMP
	30C 86F
ARBONATE INDEX	2.84
ALCIUM CARBONATE SCALING	LIKELY
ALCIUM SULFATE INDEX	-18.
ALCIUM SULFATE SCALING	UNLIKELY



Amoco
H.B.P.
B-10784
Texaco State
Exxon
B-936
Getty Oil
Gulf
Superior
4-1-85
LG-2730
Texaco
H.B.P.
B-3011
HNG Oil
HNG
Mesa Pet.
MTS etal
6-1-85
LG 2843
18 34
Richardson Oil, etal
Ralph Nix
HBP
E-2519
Amoco
Richardson & Bass
HBP
E 5014
Nortex
9-1-90
LG-8600
HNG Oil
2-1-87
LG-4032
Davoil, Inc.
Yates
9-1-87
LG-4541
Bass Ent.
E-5014
EAST E-K UNIT
CONT'L (OPER)
TONTO DEEP
C.W. Trainer
HBP
Anadarko
HBP
E-1632
HNG Oil & No. Nat. Gas
Amoco
"FU"
L-3556
AIRSTRIP
Gulf
Mesa Pet. etal
L-3674
Santa Fe Ener.
9-1-89
LG-6966
Sun Oil (Pennzoil)
Superior
9-1-86
LG-3730
Mid Amer. Pet.
May E. Williams
Union
Monsanto
(Len Mayer)
"WAG"
TD 10,290
D/A 12-3-64
Mid Amer. Pet.
Coquina
Union-St.
"New Mexico-St."
Sam Owens, etal, MI
Gene Dalmont
Marathon
A.R.Co
Cactus
Exxon
Gulf
Read & Stevens
Getty Oil
HBP
B-1565
Marathon
HBP
OG 4066
Gulf
K-2875
19 34
Gulf
8-1-82
Read & Stevens
OG 1847
Superior
Gulf
12-15-87
Gulf
3-1-90
LG 7975
Superior
10-1-85
State

WELL State "FU" #3

COUNTY Lea

LOCATION 10,800' 210' x 330' 7' x 7' x 6'

LEGAL 1700' 1980 FNL & 660' FWL, Sec. 25, T 18S, R34E
Elev: 3974.80

SURFACE State

MINERALS State

LEASEE Scharbauer Cattle Co. Box 1471, Midland, Tx. 79701
Bob Sheetz 915-684-6357

DIRT CONTRACTOR Construction Enterprizes, Inc.
Carlsbad, N.M. Phone: 885-9089

CALECHE PIT

WATER HAULER Petro-Thermo - Hobbs - 393-2417

WATER

MUD VENDOR

BIT VENDOR

MISCELLANEOUS Location fell in draw, moved 280' North.

COPY: J. H. HANKINS
WORKING WELL FILE

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 in a supplement thereof for a period

of One day ~~weeks~~

Beginning with the issue dated March 12, 19 84

and ending with the issue dated March 12, 19 84

Robert L. Summers
Publisher.

Sworn and subscribed to before me this 13 day of March, 1984

M. L. Barron
Notary Public.

My Commission expires 2-17, 1985
(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.

LEGAL NOTICE (38)
March 12, 1984

To Whom It May Concern:
Amoco Production Company has applied for administrative approval to convert State "FU" No. 3 to a salt water disposal well. The well is located in Unit letter E, Section 25, Township 18 South, Range 34 East, Lea County, New Mexico. The purpose of this work is to dispose of produced water from properties located in the Airstrip field to the subject wellbore located on the State "FU" lease. The water will be injected into the Upper and Lower Bone Springs Formation at an average rate of 500 BWIPD with a maximum surface injection pressure of 500 psi. Any questions concerning this project may be directed to Mr. John M. Breedon, District Foreman, Amoco Production Company, P.O. Box 68, Hobbs, New Mexico 88240, Phone: (505) 393-1781. Interested parties must file objections or request for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501, within 15 days.

P 267 164 430

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—NOT FOR INTERNATIONAL MAIL (See Reverse)

Sent to: Schaubauer Cattle Co.
Street and No.: Box 1911
P.O., State and ZIP Code: Midland TX 79701

Postage	1.22
Certified Fee	.75
Return Receipt Showing to whom and Date Delivered	.60
Total Postage and Fees	2.57

P 267 164 425

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—NOT FOR INTERNATIONAL MAIL (See Reverse)

Sent to: HNG Oil Company
Street and No.: Box 2267
P.O., State and ZIP Code: Midland TX 79702

Postage	$1.22
Certified Fee	.75
Special Delivery	
Restricted Delivery	
Show to whom and Date Delivered	.60
Total Postage and Fees	2.57

Postmark or Date

GCC

PS Form 3800, Apr. 1976

P 267 164 426

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—NOT FOR INTERNATIONAL MAIL (See Reverse)

Sent to: Wiser Oil Company
Street and No.: P.O. Box 2467
P.O., State and ZIP Code: Hobbs, NM 88240

Postage	1.22
Certified Fee	.75
Special Delivery	
Restricted Delivery	
Show to whom and Date Delivered	.60
Total Postage and Fees	2.57

Postmark or Date

GCC

PS Form 3800, Apr. 1976

P 267 164 427

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—NOT FOR INTERNATIONAL MAIL (See Reverse)

Sent to: State of New Mexico Commissioner of Public Lands
Street and No.: P.O. Box 1148
P.O., State and ZIP Code: Santa Fe, NM 87501

Postage	$1.22
Certified Fee	.75
Special Delivery	
Restricted Delivery	
Show to whom and Date Delivered	.60
Total Postage and Fees	2.57

Postmark or Date

GCC

PS Form 3800, Apr. 1976

P 267 164 428

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—NOT FOR INTERNATIONAL MAIL (See Reverse)

Sent to: Mesa Petroleum Company
Street and No.: Box 1756
P.O., State and ZIP Code: Hobbs, NM 88240

Postage	$1.22
Certified Fee	.75
Special Delivery	
Restricted Delivery	
Show to whom and Date Delivered	.60
Total Postage and Fees	2.57

Postmark or Date

PS Form 3800

P 267 164 429

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—NOT FOR INTERNATIONAL MAIL (See Reverse)

Sent to: Bass Enterprises Prod. Co.
Street and No.: Box 2760 800 Vaughn Bldg
P.O., State and ZIP Code: Midland, TX 79701

Postage	$1.22
Certified Fee	.75
Special Delivery	
Restricted Delivery	
Show to whom and Date Delivered	.60
Total Postage and Fees	2.57

Postmark or Date

GCC

P 267 164 431

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—NOT FOR INTERNATIONAL MAIL (See Reverse)

Sent to: Gulf Oil Exp. & Prod.
Street and No.: Box 670
P.O., State and ZIP Code: Hobbs, NM 88240

Postage	$1.22
Certified Fee	.75
Special Delivery	
Restricted Delivery	
Show to whom and Date Delivered	.60
Total Postage and Fees	2.57

Postmark or Date