

RECEIVED
OIL CONSERVATION DIVISION
MARTIN YATES, III
1912 - 1986
FRANK W. YATES
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'92 NOV 4 AM 9 29



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210
TELEPHONE (505) 748-1471

S. P. YATES
CHAIRMAN OF THE BOARD
JOHN A. YATES
PRESIDENT
PEYTON YATES
EXECUTIVE VICE PRESIDENT
RANDY G. PATTERSON
SECRETARY
DENNIS G. KINSEY
TREASURER

November 3, 1992

CERTIFIED RETURN RECEIPT

State of New Mexico
OIL CONSERVATION DIVISION
P. O. Box 2088
Santa Fe, NM 87501

Dear Sir,

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates' Shooting Star "AEA" State #1 located in Unit J of Section 11-18S-35E, Lea County, New Mexico.

Should you have any questions, please feel free to contact me at (505) 748-1471. Thank you.

Sincerely,

Jim Brown
Operations Engineering Supervisor

JB/th

Enclosure

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☐ yes ☐ no
- II. Operator: Yates Petroleum Corporation
Address: 105 S. 4th Street
Contact party: Jim Brown Phone: (505) 748-1471
- 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: Jim Brown Title Operations Eng. Supervisor
Signature: Jim Brown Date: 11-4-92
- * 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.

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.

C-108
Application For Authorization To Inject
Yates Petroleum Corporation
Shooting Star "AEA" State #1
J 11-18S-35E
Lea County, New Mexico

- I. The purpose of this application is to convert a temporarily abandoned well to salt water disposal.
- II. Operator: Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210
Jim Brown (505) 748-1471
- III. Well Data: See Attachment A
- IV. This is not an expansion of an existing project.
- V. See attached map, Attachment B
- VI. Two wells within the area of review penetrate the proposed injection zone. (Attachment C)
- VII. 1. Proposed average daily injection volume approximately 4000 BWPD.
Maximum daily injection volume approximately 10,000 BWPD.

2. This will be a closed system.

3. Proposed average injection pressure--900 psi
Proposed maximum injection pressure--1600 psi.

4. Sources of injected water would be produced water from the Wolfcamp formation from nearby wells. (See Attachment D)

5. See Attachment E.
- VIII. 1. The proposed injection interval is the Bone Springs formation from 8134'-8144' and 8500'-8555'.

2. Ogallala zones overlie the proposed injection formations at depths to approximately 300' feet.
- IX. The proposed disposal interval will be acidized with 2,000 gallons of 15% HCL, if necessary.
- X. Well logs have been filed with the Division.
- XI. Two water wells exist within a one mile radius of the subject location. They are located in 2-18S-35E and 14-18S-35E. (Attachment F-1) Chemical analyses are attached. (Attachment F-2)
- XII. Yates Petroleum Corporation has examined geologic and engineering data and has found that there is no evidence of faulting in the proposed interval.

Application for Authorization to Inject
Shooting Star "AEA" State #1
-2-

XIII. Proof of Notice

- A. Certified letters sent to the surface owner and offset operators-attached. (Attachment G)
- B. Copy of legal advertisement attached. (Attachment H)

XIV. Certification is signed.

Yates Petroleum Corporation
Shooting Star "AEA" State #1
J 11-T18S-R35E

Attachment A
Page 1

III. Well Data

A. 1. Lease Name/Location:

Shooting Star "AEA" State #1
J 11-T18S-R35E
1650'FSL & 2310'FEL

2. Casing Strings:

a. Present Well Condition

13 3/8 54.5 #J-55 @ 420'
8-5/8" 32#, J-55 @ 3805'
5 1/2" 17# and 20# N-80 and J-55 @ 9100'.
Cemented with 1135 sx cement in two stages.
Top of cement at 4675', determined by cement
bond log.

TD: 9100'

3. Tubing:

Propose to use 2 7/8" 6.5# J-55 plastic-coated tubing set at 8050'.

4. Packer:

Propose to use Guiberson Uni VI or Baker plastic-coated or nickel-plated
packer set at 8050'

B. 1. Injection Formation: Bone Springs

2. Injection Interval will be through perforations from approximately 8134'-8555'.

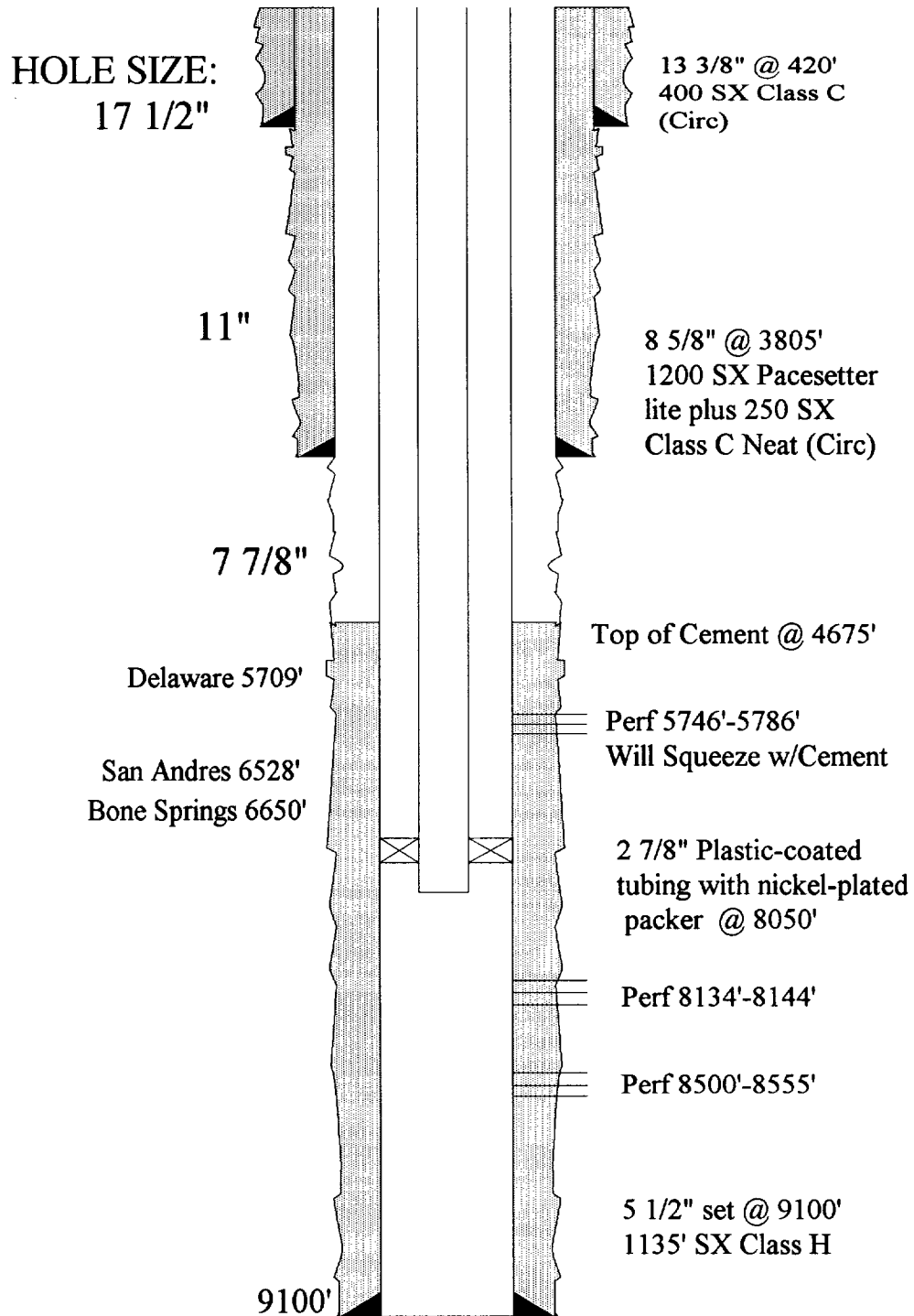
3. Well was originally drilled as an exploratory oil well, and has been temporarily
abandoned since July, 1987.

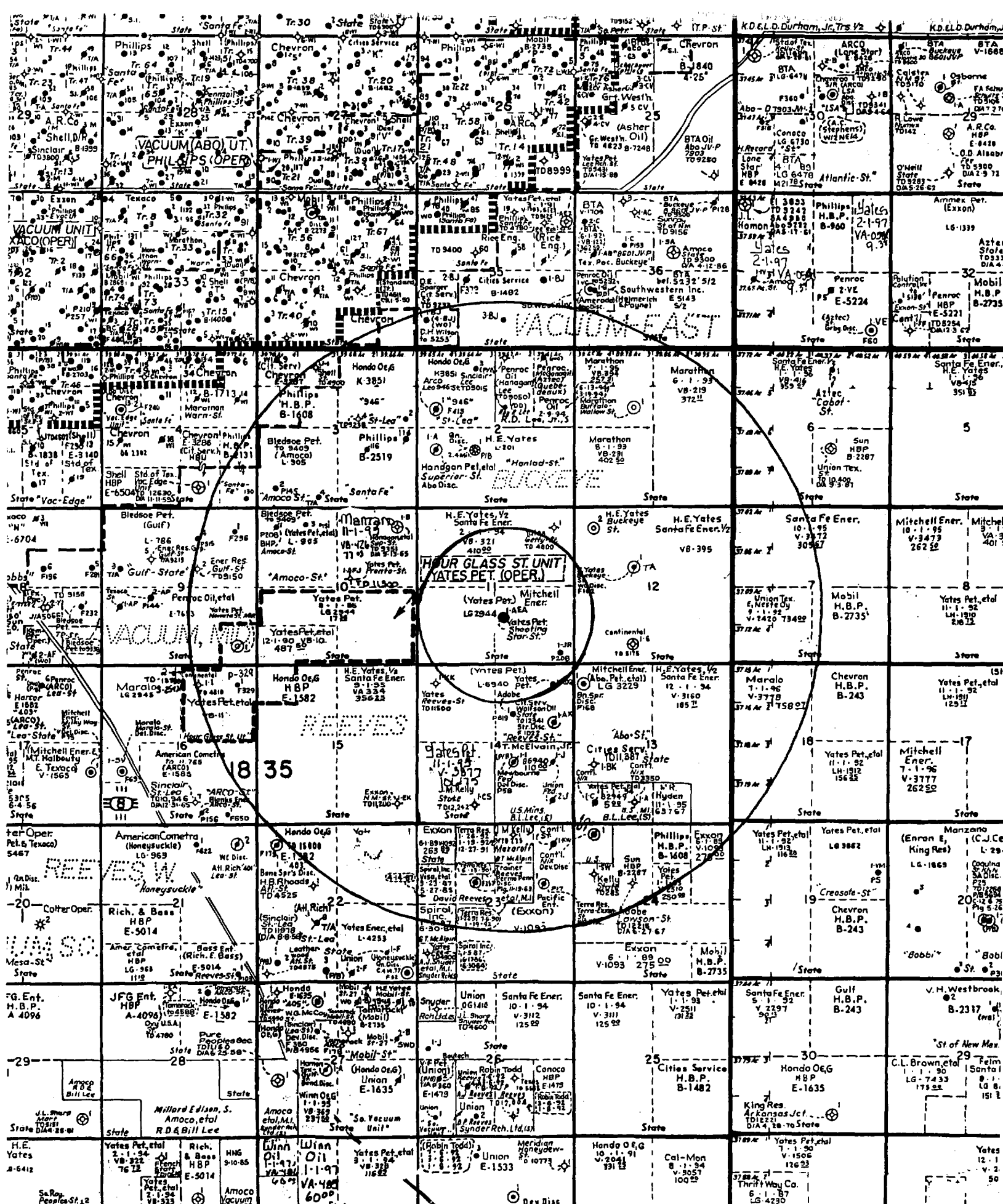
4. Other Perforated Intervals: 5746'-5786' Will squeeze cement.

5. Next higher (shallower) oil or gas zone within the area of review--None

Next lower (deeper) oil or gas zone within the area of review--Pennsylvanian 11,000 feet

ATTACHMENT A
PAGE 2
YATES PETROLEUM CORPORATION
SHOOTING STAR "AEA" STATE #1
J 11-18S-35E
1650'FSL & 2310'FEL





YATES PETROLEUM CORPORATION SHOOTING STAR "AEA" STATE #1

PROPOSED SALT WATER DISPOSAL WELL

SEC. 11-T18S-R35E

1650'FSL & 2310'FEL

LEA COUNTY, NEW MEXICO

ATTACHMENT B

ATTACHMENT C

Shooting Star "AEA" State #1 Form C-108

Tabulation of Data on Wells Within Area of Review

Well Name	Operator	Type	Spud	Completed	Total Depth	Producing Zone	Perforations	Completion Information
State "J-R" #1 P 11-18S-35E	Mitchell Energy	Oil	07/29/85	10/06/85	11,145'	Pennsylvanian	11,013'-11,026'	20"-30"-Set 13 3/8"-470'-420 SX 8 5/8-3780'-1150 SX 5 1/2-11,145'-1025 SX 2 7/8-11,064' Top of cement 6406'
Reeves "ADQ" State #1 A 14-18S-35E	YPC	Oil	03/12/86	06/19/86	11,165'	Pennsylvanian	10,996'-11,002'	13 3/8-435'-450 SX 8 5/8-3810'-1350 SX 5 1/2-11,165'-1335 SX 2 7/8-11,075' Top of cement 8000' by CBL

PETROLITE

Petrolite Oil Field Chemicals Group

16010 Barker's Point Lane • Houston, Texas 77079
 (713) 558-5200 • Telex 4620346 • Fax (713) 589-4737

Reply to: P.O. Box 5250
 Hobbs, New Mexico 88241

Phone: (505) 392-6711
 Fax: (505) 392-3759

WATER ANALYSIS REPORT

Company : YATES PETROLEUM
 Address : ARTESIA, NM
 Lease : HOURGLASS
 Well : #1
 Sample Pt. : HEATER TREATER

Date : 06/12/91
 Date Sampled : 06/12/91
 Analysis No. : 633

ANALYSIS		mg/L	* meq/L	
-----		----	-----	
1.	pH	7.0		
2.	H ₂ S	POSITIVE		
3.	Specific Gravity	1.060		
4.	Total Dissolved Solids	98840.9		
5.	Suspended Solids			
6.	Dissolved Oxygen			
7.	Dissolved CO ₂			
8.	Oil In Water			
9.	Phenolphthalein Alkalinity (CaCO ₃)			
10.	Methyl Orange Alkalinity (CaCO ₃)	633.0		
11.	Bicarbonate	HCO ₃ 772.3	HCO ₃	12.7
12.	Chloride	Cl 57620.4	Cl	1625.4
13.	Sulfate	SO ₄ 2500.0	SO ₄	52.1
14.	Calcium	Ca 2977.9	Ca	148.6
15.	Magnesium	Mg 527.5	Mg	43.4
16.	Sodium (calculated)	Na 34441.8	Na	1498.1
17.	Iron	Fe 0.0		
18.	Barium	Ba 1.0		
19.	Strontium	Sr 0.0		
20.	Total Hardness (CaCO ₃)	9608.6		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter				Compound	Equiv wt	X meq/L	= mg/L
+-----+				-----			
149	*Ca <-----	*HCO ₃	13	Ca(HCO ₃) ₂	81.0	12.7	1026
-----	/----->		-----	CaSO ₄	68.1	52.1	3543
43	*Mg ----->	*SO ₄	52	CaCl ₂	55.5	83.9	4655
-----	<-----/		-----	Mg(HCO ₃) ₂	73.2		
1498	*Na ----->	*Cl	1625	MgSO ₄	60.2		
+-----+			+-----+	MgCl ₂	47.6	43.4	2066
Saturation Values Dist. Water 20 C				NaHCO ₃	84.0		
	CaCO ₃	13 mg/L		Na ₂ SO ₄	71.0		
	CaSO ₄ * 2H ₂ O	2090 mg/L		NaCl	58.4	1498.1	87550
	BaSO ₄	2.4 mg/L					

REMARKS:

----- L. MALLET / R. ALLISON / MLAB / FILE

Petrolite Oilfield Chemicals Group

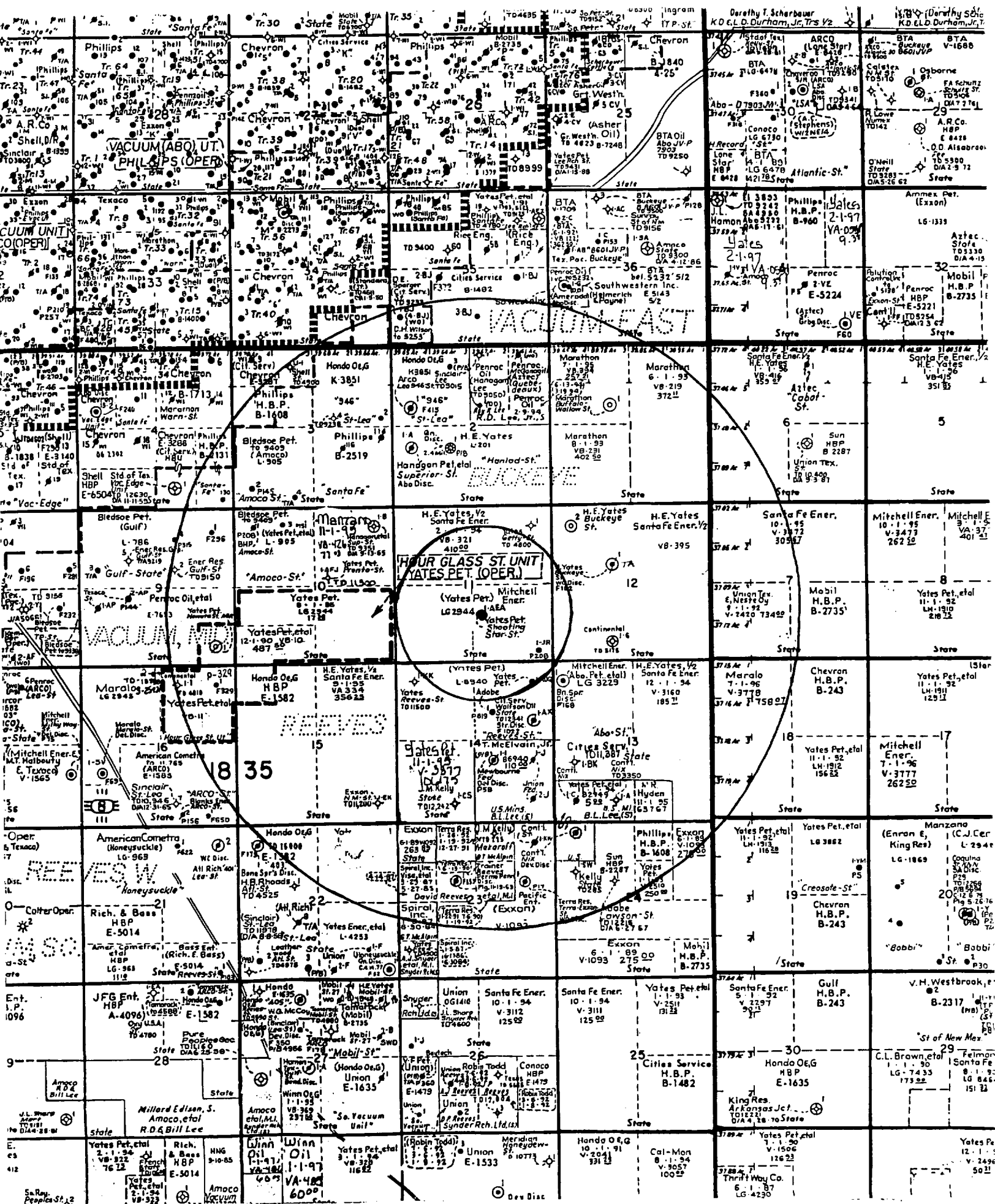
Respectfully submitted,
 ROZANNE JOHNSON

Attachment E

Bone Springs Water Analysis from Shooting Star "AEA" State #1 Reports

<u>Water Analysis</u>		<u>02/05/87</u>	<u>Perfs 8500'-8555'</u>
Sp Gravity	1.165 @ 74 deg	Resistivity	0.06
pH	6.5	Chlorides	113305
Iron	10 ppm	Sulfates	none
H2S	Strong/trace	Bicarbonate	524
Hardness	61803	Sod & Pot	45282
Calcium	1305	Magnesium	14225

Note: This report taken from Shooting Star "AEA" State #1 Chronological



WATER ANALYSIS REPORT

Company : YATES PET.
Address : ARTESIA NM
Lease : WINDMILL N-WEST
Well : SHOOTING STAR AREA
Sample Pt. : WELL

Date : 5-13-91
Date Sampled : 5-10-91
Analysis No. : 002

ANALYSIS		mg/L		* meq/L	
-----		----		-----	
1.	pH	6.2			
2.	H2S	NO			
3.	Specific Gravity	1.00			
4.	Total Dissolved Solids	3629.1			
5.	Suspended Solids	NR			
6.	Dissolved Oxygen	NR			
7.	Dissolved CO2	NR			
8.	Oil In Water	NR			
9.	Phenolphthalein Alkalinity (CaCO3)				
10.	Methyl Orange Alkalinity (CaCO3)				
11.	Bicarbonate	HCO3	293.0	HCO3	4.8
12.	Chloride	Cl	490.0	Cl	13.8
13.	Sulfate	SO4	1725.0	SO4	35.9
14.	Calcium	Ca	240.0	Ca	12.0
15.	Magnesium	Mg	109.5	Mg	9.0
16.	Sodium (calculated)	Na	771.7	Na	33.6
17.	Iron	Fe	0.0		
18.	Barium	Ba	0.0		
19.	Strontium	Sr	0.0		
20.	Total Hardness (CaCO3)		1050.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter				Compound	Equiv wt	X meq/L	=	mg/L
+-----+				-----				
12	*Ca <-----	*HCO3	5	Ca(HCO3)2	81.0	4.8		389
	/----->			CaSO4	68.1	7.2		488
9	*Mg ----->	*SO4	36	CaCl2	55.5			
	<-----/			Mg(HCO3)2	73.2			
34	*Na ----->	*Cl	14	MgSO4	60.2	9.0		542
+-----+				MgCl2	47.6			
Saturation Values Dist. Water 20 C				NaHCO3	84.0			
CaCO3 13 mg/L				Na2SO4	71.0	19.7		1402
CaSO4 * 2H2O 2090 mg/L				NaCl	58.4	13.8		808
BaSO4 2.4 mg/L								

REMARKS:

Petrolite Oilfield Chemicals Group

Respectfully submitted,
LEE MALLETT

SCALE TENDENCY REPORT

Company	: YATES PET.	Date	: 5-13-91
Address	: ARTESIA NM	Date Sampled	: 5-10-91
Lease	: WINDMILL N-WEST	Analysis No.	: 002
Well	: SHOOTING STAR AREA	Analyst	: LEE MALLET
Sample Pt.	: WELL		

STABILITY INDEX CALCULATIONS (Stiff-Davis Method) CaCO3 Scaling Tendency

S.I. =	-0.7	at	80 deg.	F or	27 deg.	C
S.I. =	-0.7	at	100 deg.	F or	38 deg.	C
S.I. =	-0.7	at	120 deg.	F or	49 deg.	C
S.I. =	-0.6	at	140 deg.	F or	60 deg.	C
S.I. =	-0.6	at	160 deg.	F or	71 deg.	C

CALCIUM SULFATE SCALING TENDENCY CALCULATIONS (Skillman-McDonald-Stiff Method) Calcium Sulfate

S =	1282	at	80 deg.	F or	27 deg.	C
S =	1296	at	100 deg.	F or	38 deg.	C
S =	1288	at	120 deg.	F or	49 deg.	C
S =	1274	at	140 deg.	F or	60 deg.	C
S =	1239	at	160 deg.	F or	71 deg.	C

Petrolite Oilfield Chemicals Group

Respectfully submitted,
LEE MALLET

WATER ANALYSIS REPORT

Company : YATES PET.
 Address : ARTESIA NM
 Lease : WINDMILL S-WEST
 Well : SHOOTING STAR AREA
 Sample Pt. : WELL

Date : 5-13-91
 Date Sampled : 5-10-91
 Analysis No. : 003

ANALYSIS		mg/L		* meq/L
-----		----		-----
1. pH	7.2			
2. H2S	NO			
3. Specific Gravity	1.00			
4. Total Dissolved Solids		3251.6		
5. Suspended Solids		NR		
6. Dissolved Oxygen		NR		
7. Dissolved CO2		NR		
8. Oil In Water		NR		
9. Phenolphthalein Alkalinity (CaCO3)				
10. Methyl Orange Alkalinity (CaCO3)				
11. Bicarbonate	HCO3	183.0	HCO3	3.0
12. Chloride	Cl	362.0	Cl	10.2
13. Sulfate	SO4	1700.0	SO4	35.4
14. Calcium	Ca	224.0	Ca	11.2
15. Magnesium	Mg	87.6	Mg	7.2
16. Sodium (calculated)	Na	695.0	Na	30.2
17. Iron	Fe	0.0		
18. Barium	Ba	0.0		
19. Strontium	Sr	0.0		
20. Total Hardness (CaCO3)		920.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter		Compound	Equiv wt	X meq/L	= mg/L
+-----+	+-----+				
11 *Ca <-----	*HCO3 3	Ca(HCO3)2	81.0	3.0	243
-----	/----->	CaSO4	68.1	8.2	557
7 *Mg ----->	*SO4 35	CaCl2	55.5		
-----	<-----/	Mg(HCO3)2	73.2		
30 *Na ----->	*Cl 10	MgSO4	60.2	7.2	434
+-----+	+-----+	MgCl2	47.6		
Saturation Values Dist. Water 20 C		NaHCO3	84.0		
CaCO3 13 mg/L		Na2SO4	71.0	20.0	1422
CaSO4 * 2H2O 2090 mg/L		NaCl	58.4	10.2	597
BaSO4 2.4 mg/L					

REMARKS:

Petrolite Oilfield Chemicals Group

Respectfully submitted,
 LEE MALLETT

SCALE TENDENCY REPORT

Company	: YATES PET.	Date	: 5-13-91
Address	: ARTESIA NM	Date Sampled	: 5-10-91
Lease	: WINDMILL S-WEST	Analysis No.	: 003
Well	: SHOOTING STAR AREA	Analyst	: LEE MALLET
Sample Pt.	: WELL		

STABILITY INDEX CALCULATIONS (Stiff-Davis Method) CaCO₃ Scaling Tendency

S.I. =	0.0	at	80 deg.	F or	27 deg. C
S.I. =	0.1	at	100 deg.	F or	38 deg. C
S.I. =	0.1	at	120 deg.	F or	49 deg. C
S.I. =	0.2	at	140 deg.	F or	60 deg. C
S.I. =	0.2	at	160 deg.	F or	71 deg. C

CALCIUM SULFATE SCALING TENDENCY CALCULATIONS (Skillman-McDonald-Stiff Method) Calcium Sulfate

S =	1208	at	80 deg.	F or	27 deg C
S =	1219	at	100 deg.	F or	38 deg C
S =	1211	at	120 deg.	F or	49 deg C
S =	1198	at	140 deg.	F or	60 deg C
S =	1162	at	160 deg.	F or	71 deg C

Petrolite Oilfield Chemicals Group

Respectfully submitted,
LEE MALLET

ATTACHMENT G

MARTIN YATES, III
1912 - 1985
FRANK W. YATES
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105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210
TELEPHONE (505) 748-1471

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November 3, 1992

CERTIFIED RETURN RECEIPT

Santa Fe Energy
550 West Texas
Suite 1330
Midland, TX 79701

Dear Sir,

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates' Shooting Star "AEA" State #1 located in Unit J of Section 11-18S-35E, Lea County, New Mexico.

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Sincerely,

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Operations Engineering Supervisor

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R. D. Bill Lee
Star Route
Lovington, NM 88260

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Heyco
P. O. Box 1933
Roswell, NM 88201

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Operations Engineering Supervisor

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TREASURER

November 3, 1992

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Mitchell Energy
400 W. Illinois
Suite 1000
Midland, TX 79701

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EXECUTIVE VICE PRESIDENT
RANDY G. PATTERSON
SECRETARY
DENNIS G. KINSEY
TREASURER

November 3, 1992

Hobbs News Sun
503 W. Main
Hobbs, NM 88240

Gentlemen,

Yates Petroleum Corporation desires to place a public notice in your newspaper for one day. The notice is enclosed.

Please place this notice in your paper on Thursday, November 5, 1992 and forward a copy of it along with your billing as soon as possible to:

Yates Petroleum Corporation
105 S. 4th Street
Artesia, NM 88210
Attn: Jim Brown

If you have any questions, please contact me at 748-1471, Ext. 167. Thank you for your cooperation in this matter.

Sincerely,

Jim Brown
Operations Engineering Supervisor

JB/th

Enclosure

Attachment H

Legal Notice

Yates Petroleum Corporation, 105 South Fourth Street, Artesia, NM 88210, has filed form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for an injection well. The proposed well, the "Shooting Star AEA State #1" located 1650' FSL & 2310' FEL of Section 11, Township 18 South, Range 35 East of Lea County, New Mexico, will be used for saltwater disposal. Disposal waters from the Wolfcamp will be re-injected into the Bone Springs formation at a depth of 8134'-8555' feet with a maximum pressure of 1700 psi and a maximum rate of 10,000 BWPD.

All interested parties opposing the aforementioned must file objections or requests for a hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, NM 87501, within 15 days. Additional information can be obtained by contacting Jim Brown at (505) 748-1471.

2 0 3 4 7 8 2 5

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, Kathie Bearden

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

November 5, 19 92
and ending with the issue dated

November 5, 19 92

Kathie Bearden
General Manager

Sworn and subscribed to before

me this 9 day of

Nov, 1992

Paul Parrish
Notary Public.

My Commission expires _____

Aug. 5, 19 95
(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.

OIL CONSERVATION DIVISION
RECEIVED

'92 NOV 16 AM 9 02

LEGAL NOTICE

November 5, 1992

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STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

OIL CONSERVATION DIVISION
RECEIVED
'92 NOV 12 AM 9 59

11-10-92

BRUCE KING
GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

RE: Proposed:

MC _____
DHC _____
NSL _____
NSP _____
SWD X _____
WFX _____
PMX _____

Gentlemen:

I have examined the application for the:

Yates Petroleum Corp. Shooting Star AEA State #1-J 11-18-35
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

OK

Yours very truly,

Jerry Sexton
Supervisor, District 1

/ed

Reever ADQ Hole #1

A-14-185-35E

La Gr., N.M.

Calculated cement top on $5\frac{1}{2}$ " casing string:

$5\frac{1}{2}$ " O.D. casing inside $7\frac{7}{8}$ " hole.

DV Tool at 8119'. Second stage cement 735 sk 50/50 Pop H

Bond log from 70 to 7855' only. Good cement.

Cement volume: $735 \text{ sk} \left(\frac{1.074 \text{ ft}^3}{\text{sk}} \right) = 789 \text{ ft}^3 \text{ cement}$

Annular volume: for $7\frac{7}{8}$ " hole x $5\frac{1}{2}$ " casing, $1.733 \text{ ft}^3/\text{ft}$

Cement column: $789 \text{ ft}^3 \text{ cement} \left(\frac{\text{ft}}{1.733 \text{ ft}^3} \right) = 4555 \text{ ft}$

Calculated depth to top of cement: $8119 - 4555 = \underline{\underline{3564'}}$

J. S. Brown

12-18-92

ATTACHMENT C

Logging Star "AEA" State #1
 m C-108

Compilation of Data on Wells Within Area of Review

Well Name	Operator	Type	Spud	Completed	Total Depth	Producing Zone	Perforations	Completion Information
ie "J-R" #1 1-18S-35E	Mitchell Energy	Oil	07/29/85	10/06/85	11,145'	Pennsylvanian	11,013'-11,026'	20"-30"-Set 13 3/8"-470'-420 SX 8 5/8-3780'-1150 SX 5 1/2-11,145'-1025 SX 2 7/8-11,064' Top of cement 6406'
eves "ADQ" State #1 14-18S-35E	YPC	Oil	03/12/86	06/19/86	11,165'	Pennsylvanian	10,996'-11,002'	13 3/8-435'-450 SX 8 5/8-3810'-1350 SX 5 1/2-11,165'-1335 SX 2 7/8-11,075' Top of cement 8000' by CHL

INCORRECT → Top of cement 8000' by CHL

CALCULATED
 T.O.C. 3564'

J. S. Brown 12-18-92