

MARTIN YATES, III
1912 - 1985
FRANK W. YATES
1936 - 1986



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

January 31, 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' Heflin Federal #1 located in Unit O of Section 24-24S-31E , Eddy County, New Mexico.

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

Sincerely,

Brian Collins
Petroleum Engineer

BC/th

Enclosure

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January 31, 1992

CERTIFIED RETURN RECEIPT

Bureau of Land Management
P. O. Box 1778
Carlsbad, NM 88220

Dear Sir,

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates' Heflin Federal #1 located in Unit O of Section 24-24S-31E , Eddy County, New Mexico.

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

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January 31, 1992

CERTIFIED RETURN RECEIPT

J R Engineering
P. O. Box 12237
Odessa, TX 79768

Dear Sir,

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates' Heflin Federal #1 located in Unit O of Section 24-24S-31E , Eddy County, New Mexico.

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

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January 31, 1992

Artesia Daily Press
503 W. Main
Artesia, 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 Tuesday, February 4, 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: Brian Collins

If you have any questions, please contact me at 748-1471, Ext. 182. Thank you for your cooperation in this matter.

Sincerely,

Brian Collins
Petroleum Engineer

BC/th

Enclosure

Attachment F

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 "Heflin Federal #1" located 660' FSL & 1980' FEL of Section 24, Township 24 South, Range 31 East of Eddy County, New Mexico, will be used for saltwater disposal. Disposal waters from the Delaware Sand will be re-injected into the Delaware Sand at a depth of 4604'-5600' with a maximum pressure of 920 psi and a maximum rate of 5,000 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 Brian Collins at (505) 748-1471.

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: Brian Collins 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: Brian Collins Title Petroleum Engineer
Signature: Brian Collins Date: January 31, 1992
- * 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
Heflin Federal #1
O 24-24S-31E
Eddy County, New Mexico

- I. The purpose of completing this well is to make a disposal well for produced Delaware Sand water into the Delaware Sand formation.

Yates Petroleum plans to re-enter this abandoned well and convert this well to a water disposal well into the Delaware Sand.

- II. Operator: Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210
Brian Collins (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. No wells within the area of review penetrate the proposed injection zone.

- VII. 1. Proposed average daily injection volume approximately 1000 BWPD.
Maximum daily injection volume approximately 5,000 BWPD.

2. This will be a closed system.

3. Proposed average injection pressure-unknown
Proposed maximum injection pressure--920 psi.

4. Sources of injected water would be produced water from the Delaware Sand. (See Attachment C)

5. See Attachment C.

- VIII. 1. The proposed injection interval is the portion of the Delaware Sand formation consisting of porous Sandstone from estimated depths:
- | |
|-------------|
| 4604'-4618' |
| 4664'-4694' |
| 4714'-4720' |
| 5130'-5150' |
| 5168'-5200' |
| 5244'-5260' |
| 5342'-5364' |
| 5570'-5600' |

Application for Authorization to Inject
Heflin Federal #1

-2-

2. Possible Fresh water zones overlies the proposed injection formations at depths to approximately 750' feet. There are no fresh water zones underlying the formation
- IX. The proposed disposal interval will be acidized with 7-1/2% HCL acid and/or fraced with crosslnted gelled water and 20/40 Sand.
- X. Logs were filed at your office when the well was drilled. A copy of the Sonic log across the interval of interest is attached. (Attachment D)
- XI. No windmills exist within a one mile radius of the subject location.
- XII. Yates Petroleum Corporation has examined geologic and engineering data and has found that there is no evidence of faulting in the proposed interval.
- XIII. Proof of Notice
 - A. Certified letters sent to the surface owner and offset operators-attached. (Attachment E)
 - B. Copy of legal advertisement attached. (Attachment F)
- XIV. Certification is signed.

Yates Petroleum Corporation
Heflin Federal #1
O 24-T24S-R31E

Attachment A
Page 1

III. Well Data

A. 1. Lease Name/Location:

Heflin Federal #1
O 24-T24S-R31E
660' FSL & 1980' FEL

2. Casing Strings:

a. Present Well Condition

13 3/8", 48#, H40 @ 750' w/825 sx
9 5/8", 36#, H40 @ 4475' w/2700 sx
7 5/8", 33.7#, N80 from 6073' to 8545'
w/1900 sx (TOC 6765' Temp. Survey)

Present Status: Plugged and abandoned.

3. Proposed well condition:

Casing same as above except 5 1/2", 15.5#, J55
@ 6025' with sufficient cement to bring TOC to
4300'.
3 1/2" 9.3 J55 or 2 7/8" 6.5 J55 plastic-
coated injection tubing @ 4500'.

4. Propose to use Guiberson or Baker plastic-
coated or nickel-plated packer set at 4500'.

B. 1. Injection Formation: Delaware Sand

2. Injection Interval will be through perfora-
tions from approximately 4604'-5600'.

3. Well was originally drilled and completed as
an exploratory Delaware Sand oil well. Well
will be Delaware Sand water disposal well
(4604'-5600') when work is completed.

4. Perforations: 7364'-7400' Delaware Sqzd.
7164'-7194' Delaware Sqzd.
7170'-7184' Delaware Sqzd.
7184'-7200' Delaware
7106'-7116' Delaware Sqzd.
7048'-7070' Delaware
6953'-6966' Delaware

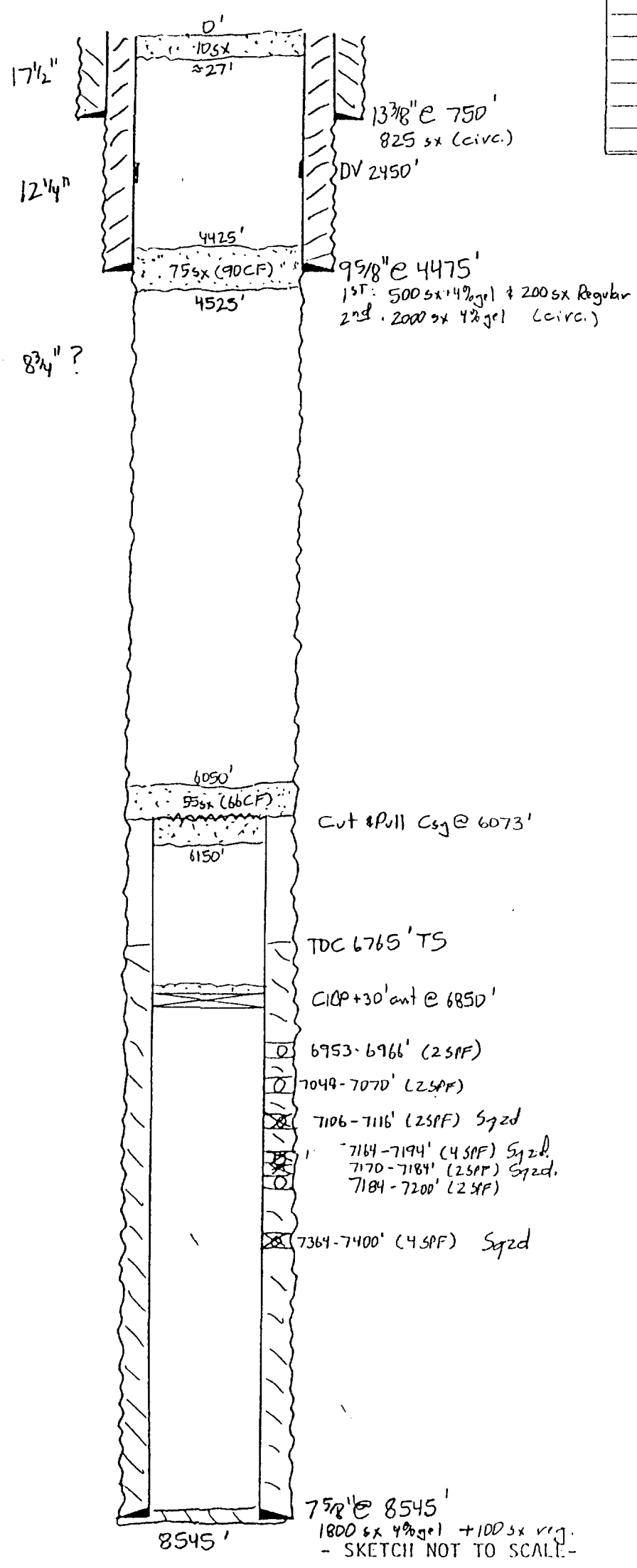
CIBP + 30' cement 6850'
55 sx plug 6150' to 6050'
75 sx plug 4525' to 4425'
10 sx surface plug.

5. Next higher (shallower) oil or gas zone within
2 miles--None
Next lower (deeper) oil or gas zone within 2
miles--Morrow

WELL NAME: T. HeFlin Federal 1 FIELD AREA: Cotton Draw Brushy Canyon
 LOCATION: 660' FSL, 1980' FEL 0-24-245-31E Eddy NM
 GL: 3539' ZERO: 11.5' 1000 9 5/8" CHF
 KB: 3552' ORIG. DRLG./COMPL. DATE: _____
 COMMENTS: Cum: 32,000 BO / 32770 MCF / 35865 BW

CASING PROGRAM:

SIZE/WT./GR./CONN.	DEPTH SET
13 3/8" 48 H40 STC	750'
9 5/8" 36 H40 STC	4475'
7 5/8" 33.7 N80	8545'

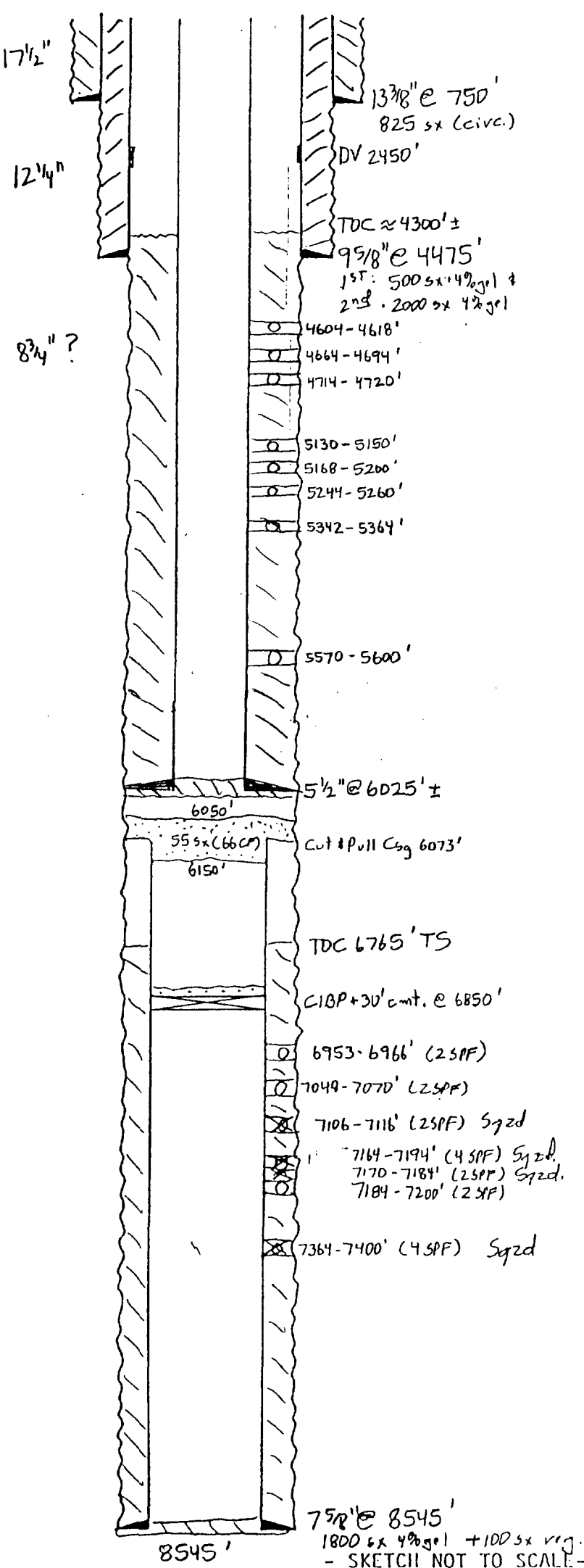


ATTACHMENT A
"BEFORE" WELLBORE SCHEMATIC

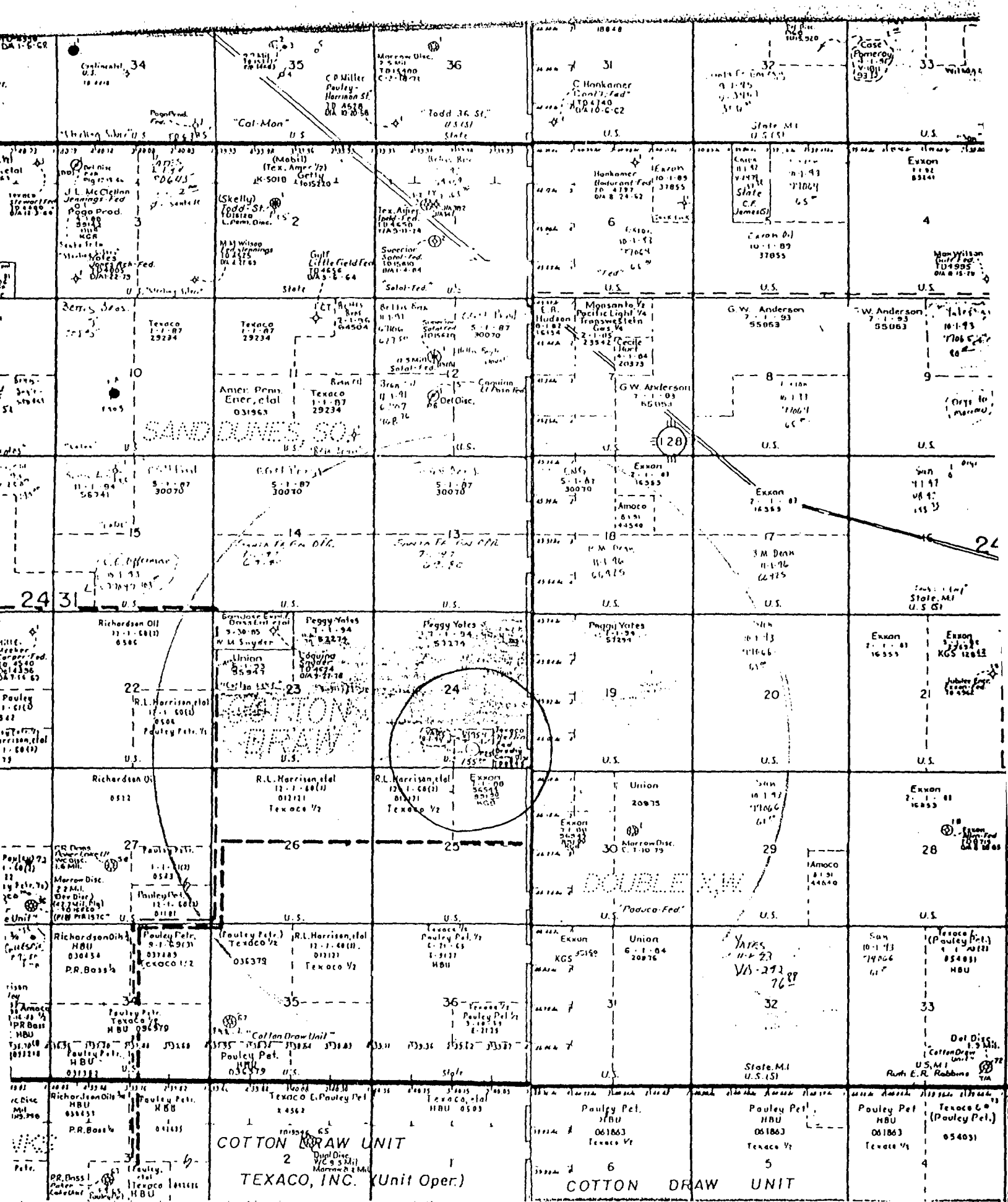
WELL NAME: T. HeFlin Federal 1 FIELD AREA: Cotton Draw Brushy Canyon
 LOCATION: 660' FSL, 1980' FEL 0-24-245-31E Eddy NM
 GL: _____' ZERO: _____' AGL: _____'
 CB: _____' ORIG. DRLG./COMPL. DATE: _____
 COMMENTS: Cum' 32,000 BO / 32770 MCF / 35865 BW

CASING PROGRAM:

SIZE/WT./GR./CONN.	DEPTH SET
13 7/8" 48 H40 STC	750'
9 5/8" 36 H40 STC	4475'
7 5/8" 33.7 N80	4545'
5 1/2" 15.5 J55 LTC	6025' ±



ATTACHMENT A
 "AFTER" WELLBORE SCHEMATIC



YATES PETROLEUM CORPORATION

HEFLIN FEDERAL #1

PROPOSED SALT WATER DISPOSAL WELL

SEC. 24-T24S-R31E

660'FSL & 1980'FEL

EDDY COUNTY, NEW MEXICO

ATTACHMENT B

ATTACHMENT C
Water Analyses

CDR

Page 12

Yates - Cotton Draw "AJT" Fed #1 (Unit E) 23-24S-31E Eddy Co., NM

9-22-23-91 TP 0. Rig up swab. First fluid level 600'. Continue swab as follows: First swab run recovered 3 bbls water and 3 bbls oil.

TIME	FL	WATER	OIL	GAS
8:00-9:00 AM	4100'	10	3	slight
9:00-10:00 AM	5400'	19	0	slight
10:00-11:00 AM	6800'	14	5%	strong
11:00-Noon	7200'	15	5%	strong
Noon-1:00 PM	7300'	10	5%	strong
1:00-2:00 PM	7600'	8	5%	strong
2:00-3:00 PM	Wait 1 hour to check fluid entry			
3:00-4:00 PM	4800'	14	5%	strong
4:00-5:00 PM	6800'	12	5%	strong

Total recovered 98.5 bbls water and 6.5 bbls oil - 120.5 bbls water overload. Shut down. Prep to swab. DC \$1625

WATER ANALYSIS:	9-20 7 PM	9-21 6 AM	5 PM
Sp. Gravity	1.113 @ 73	1.113 @ 73	1.124 @ 73
pH	6.05	6.4	7.25
Sulfates	1473	1114	1156
Bicarbonates	548	701	217
Chlorides	94,339	92,542	104,092
Calcium	11,141	10,422	9252
Magnesium	1528	1528	1080
Sod & Pot	46,420	45,965	55,483

REMARKS: light oil skim oil Approx 40% oil Approx 10% oil

9-24-91 TP 650 psi. Burned gas off in 20 minutes. Well started flowing 100% oil at 50 psi on 1/2" choke for 15 minutes. Recovered 6 bbls oil. Well died off. Rig up swab. Fluid level 1800'. First run recovered 5 bbls water with 5% oil. Made 5 swab runs. Final fluid level 5700'. Recovered 22 bbls water with 5% oil. Total recovered 21 bbls water and 7 bbls oil - 141.5 bbls water overload. Unset packer at 7904' and TOH with 2-7/8" tubing and packer. Rig up wireline. TIH with casing gun. Correlate gun into place and perforate 2 SPF, 180 deg phasing, with 14 holes as follows: 7204', 05', 06', 14', 15', 16' and 17'. TOH with casing gun and rig down wireline. TIH with RBP, packer and 2-7/8" tubing. Set RBP at 7293' and test to 2000 psi. Shut down. Prep to spot acid. dC \$4481

9-25-91 Rig up Western. Spot 1 bbl acid on perfs 7204-17'. Pull up and set packer at 7121'. Acidized with 750 gals 7-1/2% NEFE acid and 20 balls. Broke down 800 psi. Avg 3.8 BPM @ 1100 psi. ISDP 500#, 15 min 300#. TLTR 61 bbls. Rig down Western and rig up swab. Swab as follows:

TIME	F.L.	WATER	OIL	GAS
10:00-11:00 AM	1800'	37	0	0
11:00- Noon	3200'	35	0	0
Noon-1:00 PM	3200'	21	3%	slight
1:00-2:00 PM	3200'	20	3%	slight
2:00-3:00 PM	3600'	22	5%	strong
3:00-4:00 PM	3400'	26	5%	strong
4:00-5:00 PM	3400'	21	5%	strong

Total recovered 182 bbls (178 bbls water and 4 bbls oil). 117 bbls water over laod. Shut down. Prep to swab. DC \$2891

9-26-91 TP 250 psi. Burned gas off. Pressure down to 50 psi in 25 minutes. Started flowing 100% oil. Flowed 8 bbls oil and died. Rig up swab and swab as follows: First fluid level 600'.

TIME	F.L.	WATER	OIL	GAS
8:00-9:00 AM	3200'	35	5%	strong
9:00-10:00 AM	4200'	28	10%	strong
10:00-11:00 AM	4800'	22	10%	strong
11:00-Noon	5400'	scat 12	15%	strong
Noon-1:00 PM	5400'	scat 12	15%	strong
1:00-2:00 PM	5700'	scat 13	20%	strong
2:00-3:00 PM	5600'	scat 15	20%	strong
3:00-4:00 PM	6500'	scat 10	20%	strong
4:00-5:00 PM	6500'	scat 11	20%	strong

CDR

Page 13

Yates - Cotton Draw "AJT" Fed #1 (Unit E) 23-24S-31E Eddy Co., NM

Total recovered 166 bbls (136.5 bbls water and 29.5 bbls oil). 253.5 bbls water overload. Shut down. Prep to swab. DC \$1625

WATER ANALYSIS:

Sp. Gravity	1.150 @ 78	Resistivity	0.044 @ 75
pH	8.5	Sulfates	1148
Sod & Pot	67,182	Chlorides	128,667
Calcium	3900	CALC	212,107
Magnesium	6572	Bicarbonates	382

9-27-91

TD 375 psi. Burned gass off. Bled down to 50 psi in 25 minutes. Started flowing 100% oil at 50 psi on 1/2" choke. Flowed back 9 bbls oil and died. Rig up swab. Made 4 swab runs with following results:

SWAB RUN	F.L.	WATER	OIL	GAS
#1	1800' scat.	2.5 bbls	3.5 bbls	strong
#2	3200' scat.	7	5%	strong
#3	4800' scat.	8.5	7%	strong
#4	5400' scat.	8	7%	strong

Total recovered 35 bbls (21 bbls water and 14 bbls oil). 274.5 bbls water overload. Unset packer at 7121'. Drop down to 7270' and reset packer. Test RBP at 7285' to 2200 psi. Unset packer. Drop down and unset RBP at 7285'. Drop down and reset RBP at 7502' and test to 2000 psi. TOH with 2-7/8" tubing and packer. TIH with tubing pump barrel, seating nipple and tubing anchor. Set tubing anchor at 7157'. Seating nipple at 7387'. Shut down. Turn over to production to run pump and rods and hang well on pump. DC \$3606

9-28-91

Pumped 14 bbls oil and 241 bbls water in 14 hours.

9-29-91

Pumped 21 bbls oil and 129 bbls water with FL 6900'.

9-30-91

Pumped 42 bbls oil and 85 bbls water.

SCHLUMBERGER WELL SURVEYING CORPORATION	
Sonic Log	
COUNTY EDDY FIELD WILDCAT LOCATION HEFLIN-FEDERAL WELL COMPANY THE TEXAS COMPANY	COMPANY THE TEXAS COMPANY
	WELL <input checked="" type="checkbox"/> T. HEFLIN-FEDERAL
	FIELD WILDCAT
	LOCATION SEC 24, T-24-S
	R-31-E
COUNTY EDDY	STATE NEW MEXICO
Other Surveys GRN, I-ES, MI	
Location of Well 1980' FSL FEL 660' FSL	
Elevation: K.B. 3552 D.F. 3551 or G.L.	
Log Depths Measured From QF 11.5 Ft. above 9-5/8 CASING FLANGE	
RUN No.	1
Date	4-7-59
First Reading	8541
Last Reading	4476
Feet Measured	4065
Csg. Schlum.	4476
Csg. Driller	4475
Depth Reached	8545
Bottom Driller	8545
Mud Nat.	GEL, CHEM
Dens. Visc.	9.2 @ 37
Mud Resist.	1.5 @ 75 °F
Res. BHT	0.9 @ 124 °F
pH	@
Wtr. Loss	10.2 @ CC 30 min
Rmf	0.66 @ 78 °F
Bit Size	8-3/4
Span:	3' 4476 To 8541 To To
Opr. Rig Time	3 HOURS
Truck No.	1548-KERMIT
Recorded By	HOPPER
Witness	LIPSCOMB

ATTACHMENT D
Sonic Log

TALES BROTHERS
GEOLOGICAL FILE

sc. ref.
70 po 3539

REMARKS VIC No.: 43 Sonda stuck in hole at 7248'
VLS No.: 114
VIP No.: 1X

Velocity (feet per second) 1,000,000
Interval Transit Time (microseconds per foot)

Reproduced By
West Texas Electrical Log Service

Dallas 9, Texas

REFERENCE W8821C

14 COMPLETION RECORD

SPUD DATE

COMP DATE

DST RECORD

CASING RECORD

PERFORATING RECORD

ACID. FRAC SHOT

IP

GOR

GR

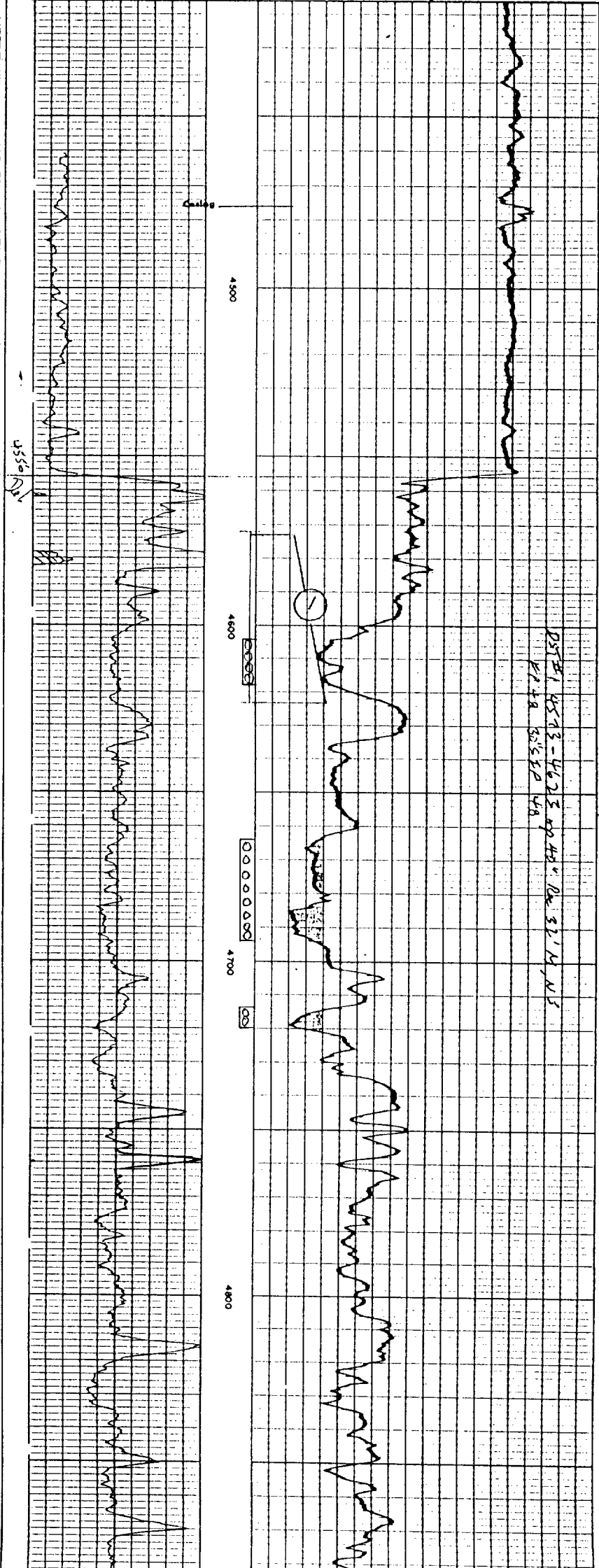
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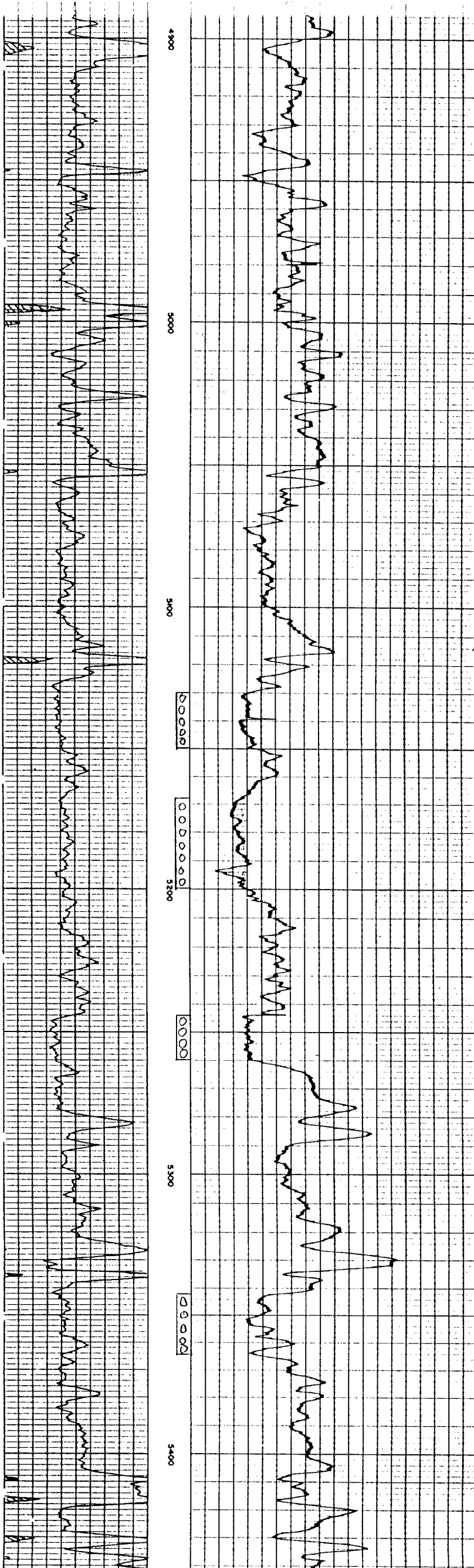
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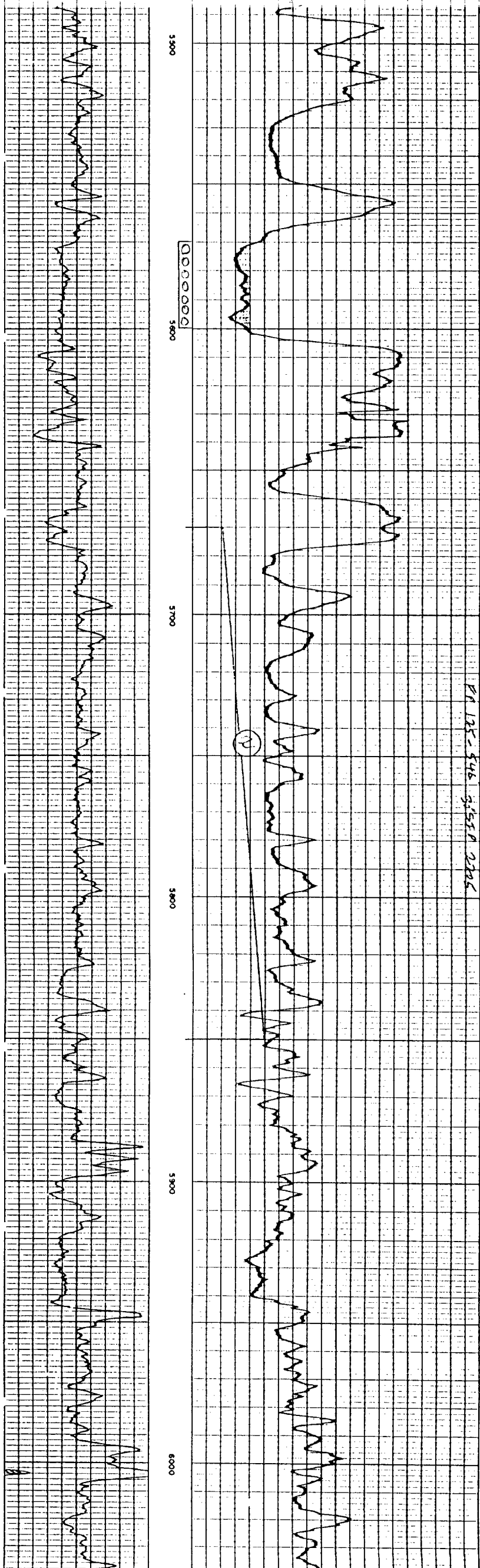
REMARKS:

GAMMA RAY micrograms Re-eq/ton	DEPTH	INTERVAL TRANSIT TIME microseconds / foot span: 3 ft.; 2 receivers
0 7.5	100	70 40
	170	130 100

GAMMA RAY micrograms Ra-eq/ton		DEPTH	INTERVAL TRANSIT TIME microseconds / foot span: 3 ft.; 2 receivers		
0	7.5		100	70	40
			170	130	100







ATTACHMENT E

Affidavit of Publication

No. 13825

STATE OF NEW MEXICO,

County of Eddy:

Gary D. Scott being duly sworn, says: That he is the Publisher of The Artesia Daily Press, a daily newspaper of general circulation, published in English at Artesia, said county and state, and that the hereto attached Legal Ntoice

was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of

the state of New Mexico for 1 days consecutive weeks on the same day as follows:

First Publication February 4, 1992

Second Publication _____

Third Publication _____

Fourth Publication _____

Subscribed and sworn to before me this 4th day of February 19 92

Richard R. [Signature]
Notary Public, Eddy County, New Mexico

My Commission expires September 23, 1996

Copy of Publication

FILED IN OFFICE

1992 FEB 16

1992 FEB 16 9 16

LEGAL NOTICE

Yates Petroleum Corporation, 105 South Fourth Street, Artesia, NM 88210, has filed form O-163 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for injection well. The proposed well, the "Hefflin Federal #1" located 660' PAL at 1980' FEL of Section 24, Township 24 South, Range 31 East of Eddy County, New Mexico, will be used for saltwater disposal. Disposal waters from the Delaware Sand will be re-injected into the Delaware Sand at a depth of 4604-5600' with a maximum pressure of 920 psi and a maximum rate of 5,000 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 Brian Collins at (505) 748-1471.

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