

Santa Fe Energy Company



500 West Illinois
Midland, Texas 79701
915/687-3551

June 21, 1985

EW 405659

New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87501

Attention: Mr. Joe D. Ramey, Director

Re: Application to Convert
SFPRR No. 15 to SWD

Gentlemen:

Santa Fe Energy Company is applying to convert its SFPRR No. 15 well to salt water disposal (SWD) into the San Andres formation at an approximate depth of 5000'. SFPRR No. 15 is in the West Sawyer (San Andres) Field and is located in Unit B, Sec. 34, T-9S, R-37E, NMPM, Lea County, New Mexico.

SFPRR No. 15 will replace SFPRR No. 6 SWD which was P&A'd 3/13/85 due to casing and tubing problems. SFPRR No. 6 was located in Unit D, Sec. 33, T-9S, R-37E, NMPM and disposed into the San Andres by NMOC order R-5073.

The San Andres is productive in this area. We understand a hearing may be required, but request administrative approval as this well replaces SFPRR No. 6 SWD which had already been approved by hearing.

Sincerely,

Hugh L. Boyt
District Production Manager

PJG:dz-453

Attachments



NEW MEXICO OIL CONSERVATION COMMISSION
APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR Santa Fe Energy Company		ADDRESS 500 W. Illinois, Suite 500, Midland, TX 79701	
LEASE NAME SFPRR	WELL NO. 15	FIELD West Sawyer (San Andres)	COUNTY Lea
LOCATION UNIT LETTER <u>B</u> ; WELL IS LOCATED <u>800</u> FEET FROM THE <u>North</u> LINE AND <u>2121</u> FEET FROM THE LINE, SECTION <u>34</u> TOWNSHIP <u>9S</u> RANGE <u>37E</u> NMPM.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING					
24# J-55 ST&C	8 5/8"	420'	325'	Surface	Circ 25 sx
INTERMEDIATE					
LONG STRING					
10.5# K-55 ST&C	4 1/2"	5099'	275'	4100'	Calculated
TUBING			NAME, MODEL AND DEPTH OF TUBING PACKER		
4.7# J-55 EUE 8rd	2 3/8"	4980'±	Guiberson Uni VI @ 4980'±		

NAME OF PROPOSED INJECTION FORMATION San Andres		TOP OF FORMATION 4228'	BOTTOM OF FORMATION Est 5690'
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLES? Perf	PROPOSED INTERVAL(S) OF INJECTION 4985-5020' perf
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? San Andres oil well, through perf 4985-5020'		HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? No

LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH	
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 300'	DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA None
DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA None	
ANTICIPATED DAILY INJECTION VOLUME (BBLs.) 200	MINIMUM 1200
MAXIMUM 1000	OPEN OR CLOSED TYPE SYSTEM Closed
IS INJECTION TO BE BY GRAVITY OR PRESSURE? Pressure	APPROX. PRESSURE (PSIO) 1000 to 1800*
ANSWER YES OR NO WHETHER THE FOLLOWING WATERS ARE MINERALIZED TO SUCH A DEGREE AS TO BE UNFIT FOR DOMESTIC, STOCK, IRRIGATION, OR OTHER GENERAL USE - Yes	
WATER TO BE DISPOSED OF Yes	
NATURAL WATER IN DISPOSAL ZONE Yes	ARE WATER ANALYSES ATTACHED? No

NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) Michael Harton, Rox 415, Tatum, NM 88267 505/398-3533
--

LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL Arco Oil & Gas Company, Box 1610, Midland, TX 79702
--

Attention: B. C. Anderson, Engineering Manager
--

--

* Present BHP @ 800 psi ±. Initial disposal pressure will be less than 1000 psi and should stay below 1000 psi for several months. As the zone becomes re-pressured, step rate tests will be run periodically to find current parting pressure and application will be made to raise disposal pressure to 50 psi below parting pressure.
--

HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING? Yes	SURFACE OWNER Yes	EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL Yes
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B) Yes	PLAT OF AREA Yes	ELECTRICAL LOG Yes
		DIAGRAMMATIC SKETCH OF WELL Yes

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Patrick J. Gaume Patrick J. Gaume Sr. Production Engineer 6-13-85
(Signature) (Title) (Date)

NOTE: Should waivers from the surface owner and all operators within one-half mile of the proposed injection well not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days from the date of receipt by the Commission's Santa Fe office. If at the end of the 15-day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing, if the applicant so requests. SEE RULE 701.

500 West Illinois
Midland, Texas 79701
915/687-3551

June 21, 1985

Mr. Michael Harton
Box 415
Tatum, NM 88267

Re: Application to Convert
SFPRR No. 15 to SWD

Dear Mr. Harton:

Santa Fe Energy Company is applying to convert its SFPRR No. 15 well to salt water disposal (SWD) into the San Andres formation at an approximate depth of 5000'. SFPRR No. 15 is in the West Sawyer (San Andres) Field and is located in Unit B, Sec. 34, T-9S, R-37E, NMPM, Lea County, New Mexico.

Please find attached New Mexico Oil Commission Division Form C-108, "Application to Dispose of Salt Water by Injection Into a Porous Formation".

Sincerely,



Hugh L. Boyt
District Production Manager

PJG:dz-455

Attachments

500 West Illinois
Midland, Texas 79701
915/687-3551

June 21, 1985

Arco Oil & Gas Company
Box 1610
Midland, TX 79702

Attention: Mr. B. C. Anderson
Engineering Manager

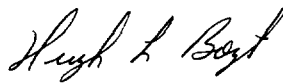
Re: Application to Convert
SFPRR No. 15 to SWD

Gentlemen:

Santa Fe Energy Company is applying to convert its SFPRR No. 15 well to salt water disposal (SWD) into the San Andres formation at an approximate depth of 5000'. SFPRR No. 15 is in the West Sawyer (San Andres) Field and is located in Unit B, Sec. 34, T-9S, R-37E, NMPM, Lea County, New Mexico.

Please find attached New Mexico Oil Commission Division Form C-108, "Application to Dispose of Salt Water by Injection Into a Porous Formation".

Sincerely,



Hugh L. Boyt
District Production Manager

PJG:dz-456

Attachments

N MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

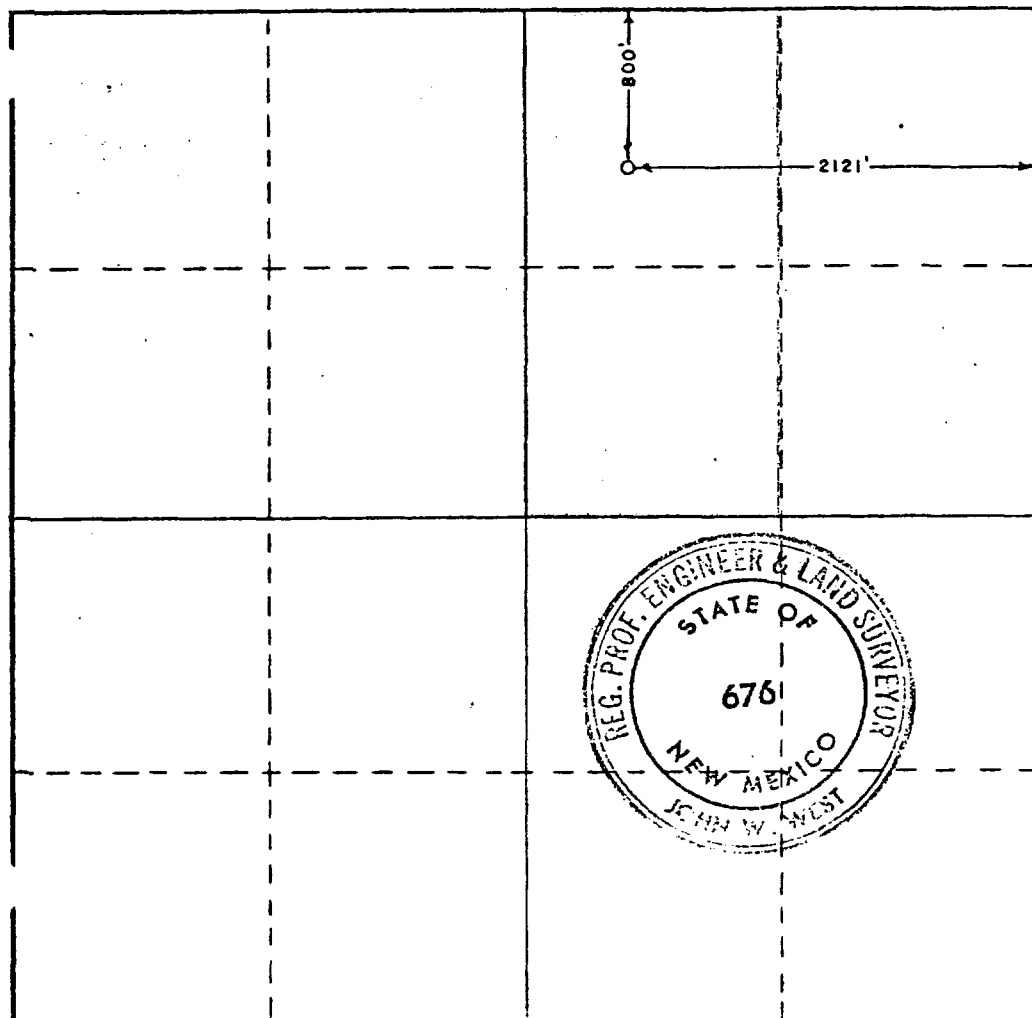
Operator OIL DEVELOPMENT CO. OF TEXAS SANTA FE ENERGY CO.			Lease S. F. P. R. R.		Well No. 15
Unit Letter B	Section 34	Township 9 SOUTH	Range 37 EAST	County LEA	
Actual Footage Location of Well: 800 feet from the NORTH line and 2121 feet from the EAST line					
Ground Level Elev. 3962	Producing Formation San Andres		Pool West Sawyer	Dedicated Acreage: 80 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name
J. Wayne Kelly
Position
General Superintendent

Company
Oil Development Co. of Texas

Date
January 8, 1973

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
JANUARY 3, 1973

Registered Professional Engineer and/or Land Surveyor
John W West
Certificate No. **676**

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600

OIL CONSERVATION DIVISION

P. O. BOX 2058

SANTA FE, NEW MEXICO 87501

Form C-103
Revised 10-1-7

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U. S. G. S.	
LAND OFFICE	
OPERATIONS	

10. Indicate Type of Lease
State ☐ Fee ☒
11. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE APPLICATION FOR PERMIT - 111 FORM C-101 FOR SUCH PROPOSALS.)

1. ☐ OIL WELL ☒ GAS WELL ☐ OTHER	7. Unit Agreement Name
2. Name of Operator Santa Fe Energy Company	8. Form of Lease Name SFPRR
3. Address of Operator 500 W. Illinois, Suite 500, Midland, TX 79701	9. Well No. 15
4. Location of well UNIT LETTER B 800 FEET FROM THE North LINE AND 2121 FEET FROM THE East LINE, SECTION 34 TOWNSHIP 9S RANGE 37E NMPM.	10. Field and Pool, or Whedat West Sawyer (San Andres)
15. Elevation (Show whether DF, RT, GR, etc.) 3962' GR, 3973' RKB	12. County Lea

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	PLUG AND ABANDONMENT ☐
PULL OR ALTER CASING ☐	OTHER ☒ Convert to SWD	CASING TEST AND CEMENT JOBS ☐	

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Convert SFPRR No. 15 to SWD (replace SFPRR No. 6 SWD which is ~~to be~~ P&A'd). Clean out to 5093', PBTD. Place well on salt water disposal through existing San Andres perfs @ 4985' to 5020'. Salt water disposal will be at or below the oil-water contact. Note - SFPRR No. 15's production history at 90 to 95% water cut. The desired water disposal capacity of the well is 1200 BWPD at 50 psi below frac pressure.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED Patrick J. Gaume Patrick J. Gaume TITLE Sr. Production Engineer DATE 6/13/85
3-25-85

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

OIL WELL PIPE RECORD

OPERATOR

O.I. Development Co of Texas

LEASE NO

WELL NO

SFPRR

15

LEASE NAME

SFPRR

KELLY DR. DUSHING ELEV. COUNTY/PARISH

STATE

Sea

New Mexico

CASING SIZE

O. D. OF HOLE

DATE CASING RUN

4 1/2"

7 7/8"

1-23-73

JOINTS

WEIGHT

GRADE

COUPLING

JOINT NO.

THRU NO.

1 161 10.5 K-55 STSC

Bottom 500' Bare Pipe

JT. NO.	FEET	JT. NO.	FEET	JT. NO.	FEET	JT. NO.	FEET	JT. NO.	FEET	JT. NO.	FEET	JT. NO.	FEET	JT. NO.	FEET
1	7 88	31	32 21	61	32 18	91	32 54	121	30 50	151	32 98	181		211	
2	32 10	32	30 24	62	33 26	92	33 88	122	27 97	152	29 70	182		212	
3	32 25	33	33 49	63	28 83	93	30 36	123	32 61	153	32 78	183		213	
4	31 98	34	33 48	64	32 27	94	32 95	124	30 88	154	29 44	184		214	
5	32 01	35	33 07	65	32 68	95	32 69	125	31 13	155	33 47	185		215	
6	32 78	36	33 54	66	33 02	96	30 94	126	29 64	156	29 78	186		216	
7	32 23	37	32 51	67	31 85	97	32 23	127	33 —	157	32 42	187		217	
8	32 92	38	32 72	68	31 45	98	32 54	128	30 06	158	33 71	188		218	
9	32 97	39	32 71	69	32 88	99	30 80	129	32 11	159	32 30	189		219	
10	32 36	40	33 30	70	29 91	100	33 08	130	25 10	160	32 78	190		220	
11	33 29	41	32 82	71	32 73	101	33 20	131	29 77	161	28 07	191		221	
12	31 99	42	27 18	72	26 40	102	32 39	132	32 —	162		192		222	
13	31 09	43	32 32	73	32 08	103	33 34	133	31 58	163		193		223	
14	33 15	44	32 81	74	31 90	104	32 99	134	33 —	164		194		224	
15	32 79	45	33 08	75	33 —	105	31 46	135	32 36	165		195		225	
16	31 31	46	33 03	76	33 08	106	32 56	136	33 45	166		196		226	
17	32 —	47	31 23	77	32 82	107	31 50	137	32 79	167		197		227	
18	33 22	48	33 48	78	32 —	108	32 89	138	32 88	168		198		228	
19	33 11	49	31 66	79	32 23	109	32 03	139	31 97	169		199		229	
20	33 34	50	33 45	80	32 75	110	29 38	140	31 39	170		200		230	
21	33 10	51	32 81	81	27 —	111	32 49	141	32 22	171		201		231	
22	28 21	52	25 19	82	32 15	112	32 88	142	31 62	172		202		232	
23	32 50	53	32 13	83	32 71	113	32 85	143	33 63	173		203		233	
24	30 62	54	32 54	84	32 87	114	32 70	144	32 22	174		204		234	
25	29 85	55	33 —	85	30 56	115	31 10	145	31 50	175		205		235	
26	33 10	56	33 23	86	28 09	116	32 67	146	32 30	176		206		236	
27	33 29	57	32 85	87	32 83	117	29 53	147	31 13	177		207		237	
28	32 85	58	32 52	88	33 19	118	29 60	148	30 44	178		208		238	
29	32 30	59	33 —	89	31 41	119	33 65	149	30 58	179		209		239	
30	33 79	60	30 90	90	32 99	120	32 64	150	32 27	180		210		240	
TOT. COL. 1	944 38	TOT. COL. 2	966 50	TOT. COL. 3	951 12	TOT. COL. 4	963 86	TOT. COL. 5	942 10	TOT. COL. 6	347 43	TOT. COL. 7		TOT. COL. 8	

CEMENTING INFORMATION						SCRATCHERS		JOINTS LEFT OVER	
NO. SACKS	TYPE	ADDITIVES	CIRCULATING BEFORE CEMENTING	MIN.	TYPE	NO. JOINTS	FOOTAGE	NO. JOINTS	FOOTAGE
215	C	2700 14 salt/sk 7590 DBS			None	161	5115.39		
PUMP PRESSURES		CIRCULATING	DISPLACING	WHEN PLUG HIT	MAXIMUM	FROM	TO	WEIGHT	GRADE
		0 LBS.	1100 LBS.	1800 LBS.				10.5	K-55
DISPLACING PUMP					MIX AND PUMP TIME	SPACING		COUPLING	
Ply down 11:15 PM					50 MIN.			STSC	
PIPE ROTATED		RECIPROCATED	WORKED DURING	AND/OR AFTER CEMENTING	TOTAL TIME WORKED	CENTRALIZERS		RAN	
☐		☒	☐	☐				JOINTS	
NO. PLUGS USED		RETURNS	CEMENT TOP	SHOE DOWEL	COLLAR	TYPE		SET AT	
2				Reg Guide	INSERT	First 8 collars		5099'	
STRING WEIGHT			WEIGHT ON HANGER		FROM		TO		DATE AND TIME DELIVERED
SIGNATURE					SPACING		NO.		REACHED BOTTOM
J. L. D. Smith									

USE BACK OF SHEET FOR REMARKS

PRINTED IN U.S.A.

March 25, 1985

SFPRR No. 15
NW/4 NE/4, Unit B
800 FNL & 2121 FEL
Sec. 34-9S-37E, NMPM
Lea County, New Mexico
11 1/2 miles east & 1 mile south of
Crossroads, New Mexico
80 AC proration unit: W/2 NE/4

SFEC Well File No. NM 107-133-19
West Sawyer (San Andres) Pool
Spud: 1-14-73
8 5/8" csg 1-15-73
TD: 5100' 1-22-73
4 1/2" csg 1-23-73
Completed: 1-31-73

9-08-77 Acidized w/1000 gals
-2-11-82 Last well workover report
have 161 jts tbg, Guiberson tbg
anchor, tbg pump & 7/8" & 3/4 rods.

PROD	BO	BW	MCF	GOR	OIL CUT
1973	7373	65263	4972	0674	.101
1974	5089	45869	8171	1606	.100
1975	1968	17612	4118	2092	.101
1976	4536	42698	3559	0785	.096
1977	6061	47519	6431	1061	.113
1978	7562	72367	4789	0633	.094
1979	4580	77568	4786	1045	.056
1980	3548	61814	4675	1317	.054
1981	2685	59490	4138	1541	.043
1982	4039	68382	4260	1055	.056
1983	2678	59838	7145	2668	.043
1984					
thru					
Nov.	2519	56720	6237	2476	.043

1983-84 Avg FL @ 136 jts $\approx$ 4284'
08/04/84 FL @ 156 jts $\approx$ 4914'
12/14/84 SI well when SWD station SI
03-09-85 FL @ 101 jts $\approx$ 3181.
BHP 790 psi $\pm$
03-20-85 Ran pmp in test w/407 bbl
prod wtr. Inj @ 1.6 BPM
@ 600 psi at end of test.
Pmpd most of test @ 2.4
BPM @ 900 psi. ISIP-
vacuum.

GL 2962', KB 3973', or 11' AGL

12 1/4" hole

8 5/8" 24# J-55 ST&C @ 420' w/325 sx
C1 C. Circ 25 sx.

7 7/8" hole

4985-5020' 2 JSPF (70 holes)
Acidized w/8000 gals in 2 stages

Junk - mixed assortment of tbg anchor
& pump parts

4 1/2" 10.5# K-55 ST&C @ 5099' w/275
sx C1 C

J.W.

OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO

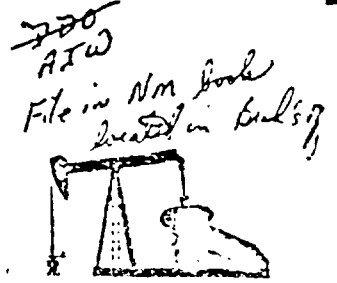
P. O. BOX 2088 - SANTA FE

87501

DIRECTOR
JOE D. RAMEY

LAND COMMISSIONER
PHIL R. LUCERO

STATE GEOLOGIST
EMERY C. ARNOLD



SANTA FE ENERGY CO. SFPRR #15

Memo No. 3-77
August 24, 1977

MEMORANDUM

APPLICATION TO
CONVERT TO SWD

TO: OPERATORS AND ATTORNEYS

FROM: JOE D. RAMEY, SECRETARY-DIRECTOR

SUBJECT: APPLICATIONS FOR APPROVAL OF SECONDARY RECOVERY OR SALT
WATER DISPOSAL INJECTION WELLS

The Commission has delayed revising its Rules and Regulations relative to injection wells because of the impending U. S. Environmental Protection Agency Underground Injection Control Regulations. During the interim before those regulations may be finalized, the following policy shall apply to applications for approval of injection wells whether by hearing or by administrative order:

4985 X.2 #/ft =
= 997 PSI
USE 1000 #

(1) No surface injection pressure greater than 0.2 psi per foot of depth to the top of the injection zone will be permitted unless there is strong evidence that the strata confining the injection fluid has a fracture gradient which would support a higher pressure.

WELL DATA SHEETS ATTACHED ON ALL OFFSET WELLS AT OR WITHIN 1/2 MILE RADIUS. ALL OFFSETS ARE OPERATED BY SFEC & WERE DRILLED AT ABOUT THE TIME #15 WAS DRILLED

(2) That applications must include a tabular summary of all wells within one-half mile of the injection well(s) and which penetrate the injection zone showing all casing strings, setting depths, sacks of cement used, cement tops, total depth, producing interval, well identification, and location. Applications for expansion of projects need not include the tabulation if the same is on file and no additional wells are included.

NO PLUG WELLS WITHIN 1/2 MILE

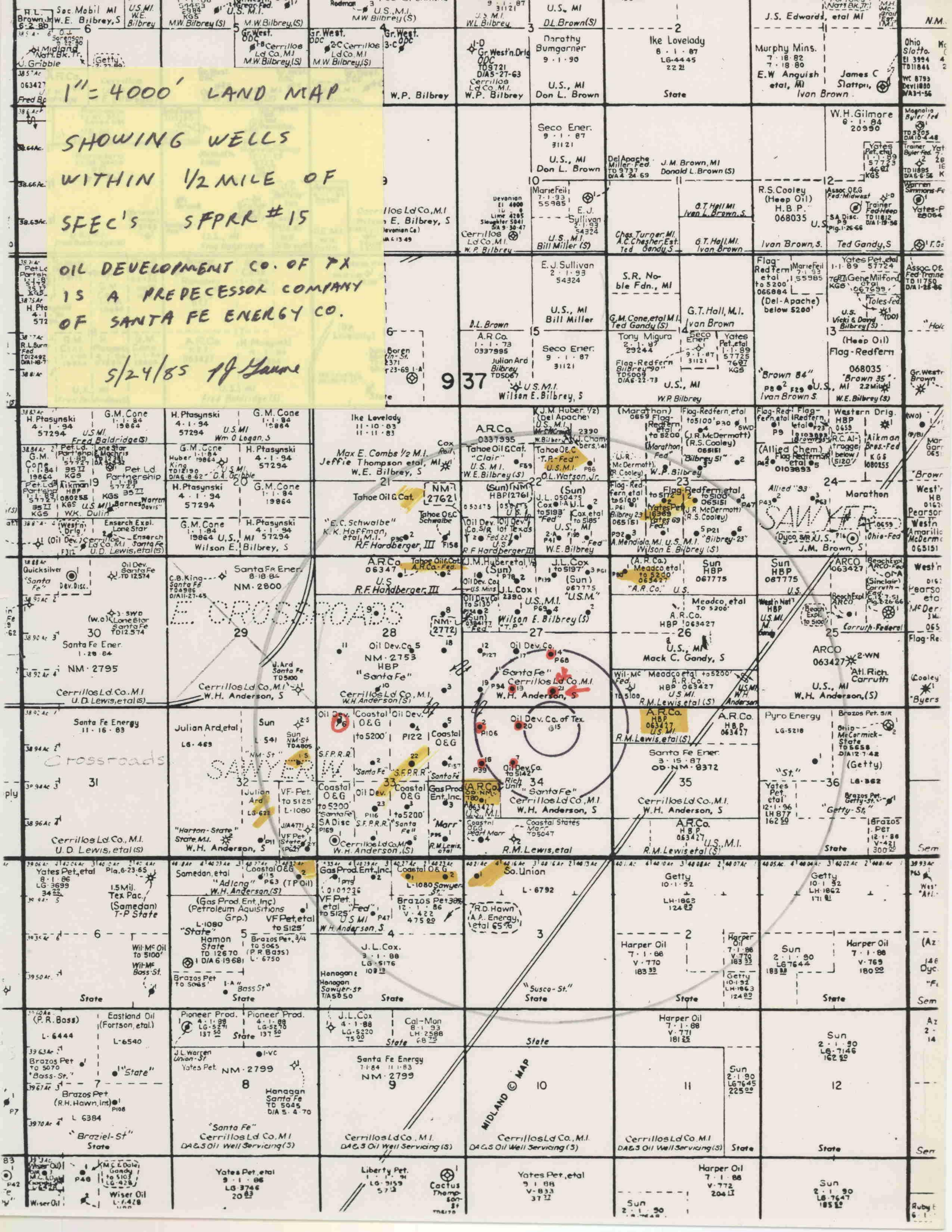
(3) Application must include a schematic of all plugged and abandoned wells within the one-half mile radius and which have penetrated the injection zone showing all information required under (2) above plus the size and location of all plugs and the date of abandonment. Applications for expansion of projects need not include the schematics if the same is on file and no additional wells are included.

J.D. Ramey
8/14/85

1" = 4000' LAND MAP
SHOWING WELLS
WITHIN 1/2 MILE OF
SFEC'S SFPRR #15

OIL DEVELOPMENT CO. OF TX
IS A PREDECESSOR COMPANY
OF SANTA FE ENERGY CO.

5/24/85 JF Yancey



WELL SKETCH

Operator: SANTA FE Energy Lease/Unit: SFPRR No: 2
 Field: WEST SAWYER County: LEA State: NM
 Producing Formation: SAN ANDRES, D Status: _____
 Spud: 4/18/70 Initial Completion: 5/13/70 Last Workover/Repair: 3/5/75

UNIT D, 660 F N 4 E L, Sec 34-T9S-R37E-N44M, Lea Co, NM

" # Cond. set @ _____' w/ _____ sx. TOC _____'
 8 5/8 " H-40 24 # Surf. pipe set @ 437 RKB w/ 300 sx. TOC 0

San Andres
 Zone A 4795
 " B 4985
 " C 4918
 " D 4947

7 7/8" HOLE

TOC @ 4010' CBL day.

4960 2JPF, treated w/ 250 gal 15% acid followed by 8000 gal W-26
 CBL (5/11/70) w/ 30 ball sealers in 2 stages
 72
 72
 4990
 PBD 5012
 4 1/2 " R-55 10.5# prod pipe set @ 5034 RKB w/ 250 sx. TOC 4010 RKB
 CBL (5/11/70)

DTD 5034 ' Max Deviation 1 3/4 ° Depth 4225 '

LTD _____ ' BH Loc. (if known) _____

Tubing: 2 3/8" 4995 RKB

Sucker Rods: _____

Pump: _____

Pumping Unit: _____

Comments: _____

DATA APPROVAL

Production Engineer _____

dz-293

initially done by KAC 3/25/85

Date _____

Page 1 of 3

WELL SKETCH

if up on top

Operator: Santa Fe Energy Lease/Unit: SFPRR No: 17
 Field: WEST SAWYER County: LEA State: NM
 Producing Formation: San Andres, D Status: _____
 Spud: 11/17/70 Initial Completion: 12/13/70 Last Workover/Repair: 2/1/82

UNIT F, 1980 FNL & 1780 FWL, Sec 34, T9S, R37E, NMPM, LEA CO. NM

" # Cond. set @ _____' w/ _____ sx. TOC _____'
 8 5/8" LBF 20 # Surf. pipe set @ _____' w/ 325 sx. TD _____'

7 7/8" HOLE

TOC calc @ 4000' okay.

4970 2 JPF, initially treated w/ 6650 gal and in 2 stages separated by 1000 and 100# unbreaks

4994

PSTD
5031

← 1 1/2" 10.5# 5-STC prod pipe set @ 5060 RB w/ 250 sx. TOC 4000' CALC @

DTD 5060' Max Deviation 1 1/4 ° Depth 3717' 1° @ 1910'

LTD 5046' BH Loc. (if known) _____

Tubing: 2 7/8" @ 5010

Sucker Rods: _____

Pump: _____

Pumping Unit: _____

Comments: _____

DATA APPROVAL

Production Engineer _____

dz-293

initially comp. by KAC 8/27/85

Date _____

Page 1 of 2

WELL SKETCH

Keep on top

Operator: Santa Fe Energy Lease/Unit: SFPA No: 13
 Field: WEST SAWYER County: LEA State: NM
 Producing Formation: San Andres D Status: _____
 Spud: 11/25/71 Initial Completion: 12/17/71 Last Workover/Repair: 12/11/71

UNIT N, 1780 FWL, 660 FSL, Sec 27, T9S, R37E, NM1M, Lea Co., NM

" # Cond. set @ ' w/ sx. TOC '
8 5/8 " H-40 24 # Surf. pipe set @ 420 ' w/ 325 sx. TD 0 '
 STC-R3 TOC

7 7/8" HOLE

TOC out @ 4000' okay. Verified

4974 pfd w/ 2 JPF, initially treated w/ 5000 gal acid in 2 stages
 repeated by 1060 and 10000 anibeads

5000

PSTD
5034

4 1/2 " K-55 10.5 # prod pipe set @ 5050 ' w/ 250' sx. TOC 4000'
 STC R-2 CALC @

DTD 5050' Max Deviation 1 1/4 ° Depth 3732'

LTD 5049' BH Loc. (if known) _____

Tubing: 2 3/8" @ 5000'

Sucker Rods: _____

Pump: _____

Pumping Unit: _____

Comments: _____

DATA APPROVAL

Production Engineer _____

dz-293

initially comp. by KAC 3/25/85

Date _____

Page 1 of 2

WELL SKETCH

Keep on top

Operator: Santa Fe Energy Lease/Unit: SFPRR No: 14
 Field: WEST SAWYER County: LEA State: N.M.
 Producing Formation: San Andres D Status: _____
 Spud: 3/18/72 Initial Completion: 4/7/72 Last Workover/Repair: 10/15/84

UNIT J, 1839 FSL, 2121 FEL, Sec 27, T9S, R37E, NMPM, Lea Co, NM.

" # Cond. set @ _____' w/ _____' sx. TOC _____'
 3 5/8" 24 # Surf. pipe set @ 407' w/ 325' sx. TOC 0'

7 7/8" HOLE

TOC Colce 3985' okay

4976 2 1/2" w/ 15PF, 25 holes, initially treated w/ 3000 gal acid in
 2 equal stages separated by 200# westblock TH

5000

PBTD
 5115'

4 1/2" K-55 10.5# prod pipe set @ 5125' w/ 275' sx. TOC 4000'
 5190

DTD 5125' Max Deviation 1° Depth 1890'

LTD 5122' BH Loc. (if known)

Tubing: 2 3/8" @ 4988'

Pump:

Comments:

Sucker Rods:

Pumping Unit:

DATA APPROVAL

Production Engineer

dz-293

initially comp. by KA 3/28/85

Date

Page 1 of 2

WELL SKETCH

Report Top

Operator: Santa Fe Energy Lease/Unit: SFPRR No: 16
 Field: WEST SAWYER County: LEA State: NM
 Producing Formation: San Andres D Status: _____
 Spud: 2/1/76 Initial Completion: 3/11/76 Last Workover/Repair: 4/19/79

UNIT E, 1980 FNL, 660 FWL, Sec 34, T9S, R37E, NMPM, Lea Co., NM

" # Cond. set @ _____' w/ _____ sx. TOC _____'
 8 5/8" K-55 24 # Surf. pipe set @ 439' w/ 300 sx. TD 0
 ST9C TOC

7 7/8" HOLE

TOC @ 4181 Calcd okay.

4962 pfd w/ITFF, initially treated w/ 8000 gal acid, 110 gal glycolant-27
 diluted in fresh water and 200# 2/3 Westblock I and 1/3
 Westblock II.

PBTD
4996

4992

4 1/2" K-55 10.5# prod pipe set @ 5010' w/ 200 sx. TOC 4200'
 ST9C CALC @

DTD 5010' Max Deviation 1° Depth 452'

LTD _____' BH Loc. (if known) _____

Tubing: 2 3/8" e 49.76

Sucker Rods: _____

Pump: _____

Pumping Unit: _____

Comments: _____

DATA APPROVAL

Production Engineer _____

dz-293

initially comp by LHC 3/29/85

Date _____

Page 1 of 2

WELL SKETCH

Keep on top

Operator: Santa Fe Energy Lease/Unit: SFPRK No: 20
 Field: WEST SAWYER County: LEA State: NM
 Producing Formation: SAN ANDRES, D Status: _____
 Spud: 11/5/76 Initial Completion: 1/13/77 Last Workover/Repair: 2/26/82

UNIT C, 1780 FWL, 660 FNL, Sec 34, T9S, R37E, NMPM, Lea Co., NM.

" # Cond. set @ _____' w/ _____ sx. TOC _____'
8 5/8 " K-55 24 # Surf. pipe set @ 421 ' w/ 300 sx. TD 0 '
STC

DV @ 2700

7 7/8" HOLE

TOC ok @ 1086' okay

4978 pphd w/ 1 JPF; initially treated w/ 9000 gal 20% retarded
 acid in 3 equal stages w/ 150# benzene and
 flakes between stages

5009

4 1/2" K-55 10.5 # prod pipe set @ 5023 ' w/ 950 sx. TOC 0 '
STC

POTD
5017

DTD 5023 ' Max Deviation 1 ° Depth 3400 '

LTD 5022 ' BH Loc. (if known) _____

Tubing: 2 3/8" @ 4959

Sucker Rods: _____

Pump: _____

Pumping Unit: _____

Comments: _____

DATA APPROVAL

Production Engineer _____

dz-293

initially comp. by KAC 3/29/85

Date _____

Page 1 of 2



*Sidewall Neutron
Gamma Ray*

FILE NO.		COMPANY OIL DEVELOPMENT CO. OF TEXAS	
WELL SANTA FE PACIFIC RR. NO. 15		FIELD WEST SAWYER	
COUNTY LEA		STATE NEW MEXICO	
LOCATION: 800' FNL & 2121' FEL		Other Services L/L	
SEC 34 TWP 9-S RGE 37-E			
Permanent Datum GROUND LEVEL Elev. 3962		KB Elevations: 3973	
Log Measured from K. B. 11 Ft. Above Permanent Datum		DF 3962	
Drilling Measured from K. B.		GL 3962	
Date 1-23-73	Run No. ONE		
Depth—Driller 5100			
Depth—Logger 5104			
Bottom Logged Interval 5102			
Top Logged Interval SURFACE			
Casing—Driller 8 5/8 426	@		@
Casing—logger -			
Bit Size 7 7/8"			
Type Fluid in Hole SALT GEL			
	4% OIL		
Density and Viscosity 10.9 37			
pH and Fluid Loss 9.4 cc			cc
Source of Sample CIRCULATED			cc
Rm @ Meas. Temp. .065 @ 58 °F	@		@ °F
Rmf @ Meas. Temp. .06 @ 58 °F	@		@ °F
Rmc @ Meas. Temp. - @ °F	@		@ °F
Source of Rmf and Rmc MEAS.			
Rm @ BHT .035 @ 110 °F	@		@ °F
Time Since Circ. 3 HOURS			
Max. Rec. Temp. Deg. F. 110 °F			°F
Equip. No. and Location 6078 HOBBS			°F
Recorded By MC ATEE			
Witnessed By MR. LEACH			

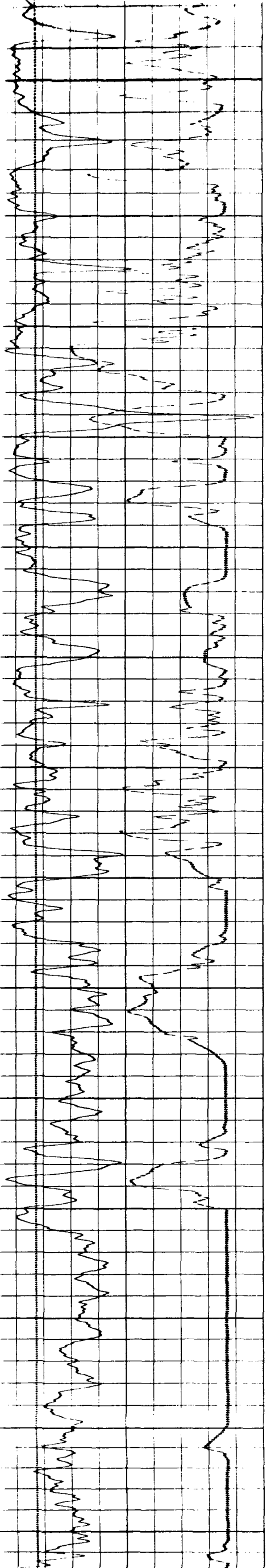
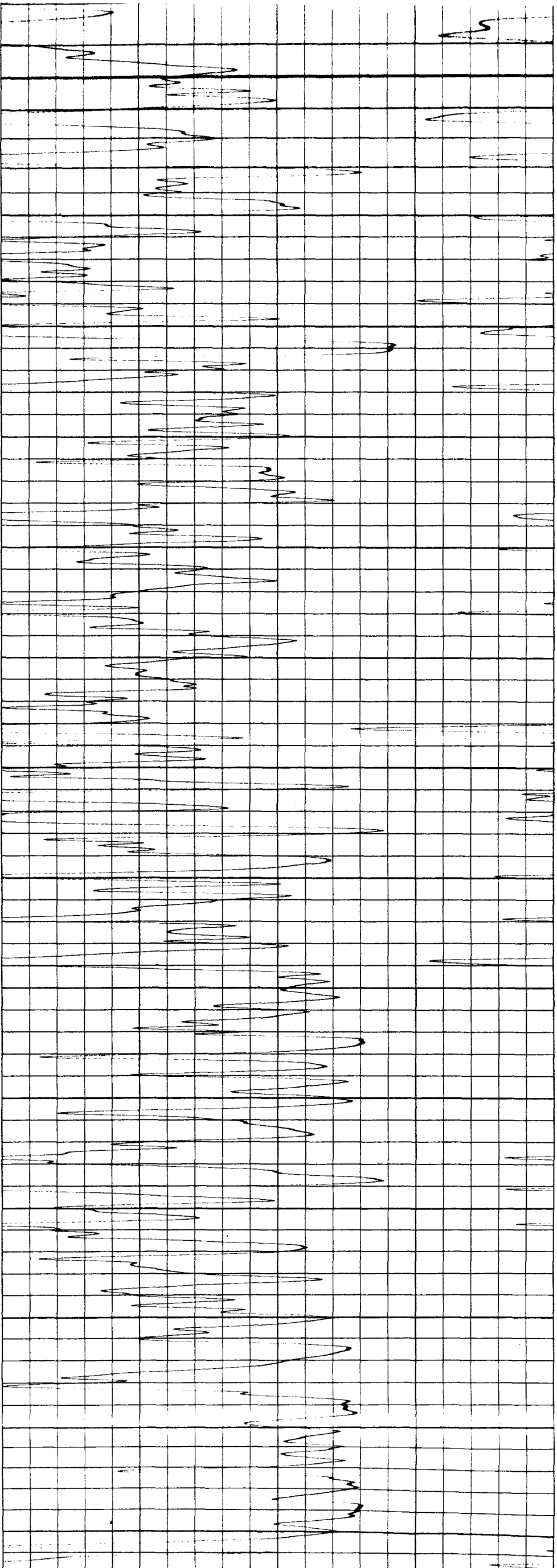
FOLD HERE THIS HEADING AND LOG CONFORMS TO API RECOMMENDED STANDARD PRACTICE RP-31

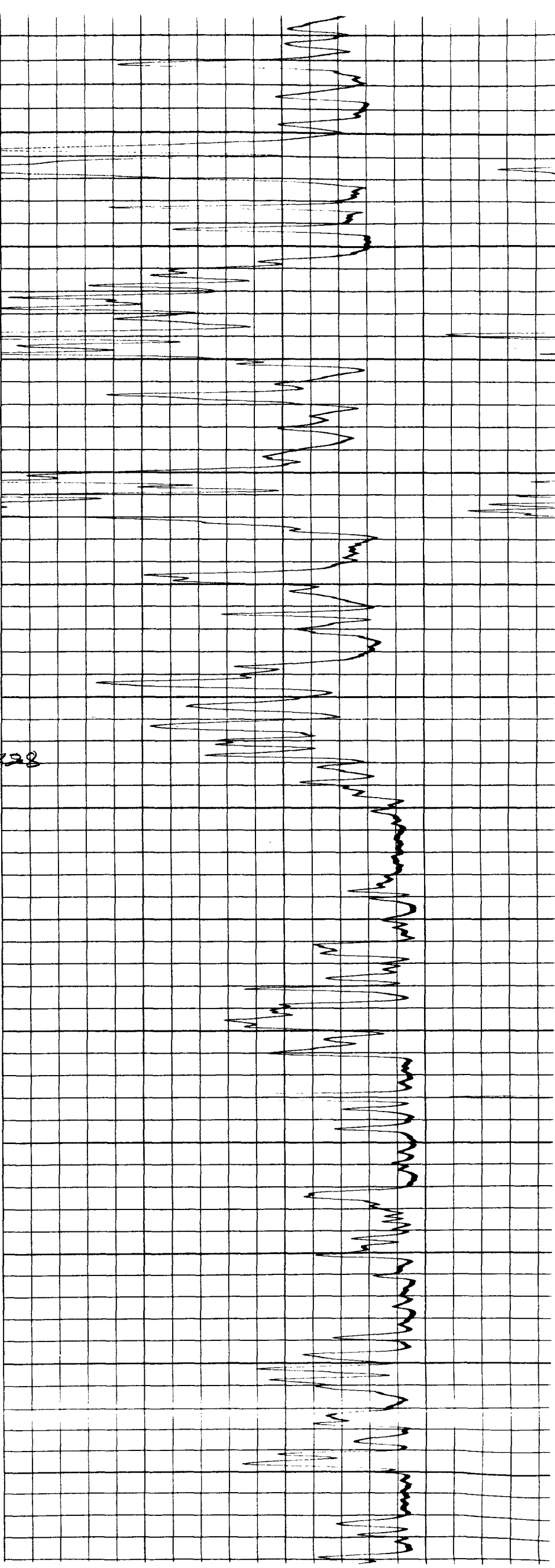
Gamma Ray				Equipment Data				Sidewall Neutron			
Run No.	ONE			Run No.	ONE			Run No.	ONE		
Tool Model No.	420			Log Type	N/EN			Tool Model No.	2409		
Diam.	3 3/8"			Tool Model No.	393			Serial No.	3"		
Detect. Model No.	RGDA			Diam.	3"			Detect. Model No.	D3H		
Type	SCINT.			Detect. Model No.	D3H			Type	P-COUNTER		
Length	4"			Type	P-COUNTER			Length	4"		
Dist. to N. Source	136"			Length	4"			Source Model No.	S17R5		
Computer Data				Source Model No.	S17R5			Serial No.	3747		
420	60			Serial No.	3747			Type	AM BE		
1914	6			Type	AM BE			Strength	4 1/2 CURIES		

Logging Data												
General				Sidewall Neutron					Gamma Ray			
Run No.	Depths		Speed Ft./Min.	T.C. Sec.	Sens. Settings	Porosity			T.C. Sec.	Sens. Settings	Zero Div. L or R	API G.R. Units/Div.
	From	To				Zero	Units/Div.	Scale				
1	5102	1830	REC	1	272	L-5.45	2%/132	30%-0	1	686	0	10
1	1830	SURF.	REC						1	686	0	10

Remarks: CLOSED PAD @ 1830' TO KEEP FROM DAMAGING HOLE. INSTRUMENT KEPT HANGING. HAD TO CLOSE ARMS TO FREE INSTRUMENT EACH TIME		Equipment Used	
Run No.	ONE	S. O. No.	35005
Tool No.	SEE ABOVE	Elec. No.	SEE ABOVE
Panel No.	24643-15(5071-20)		

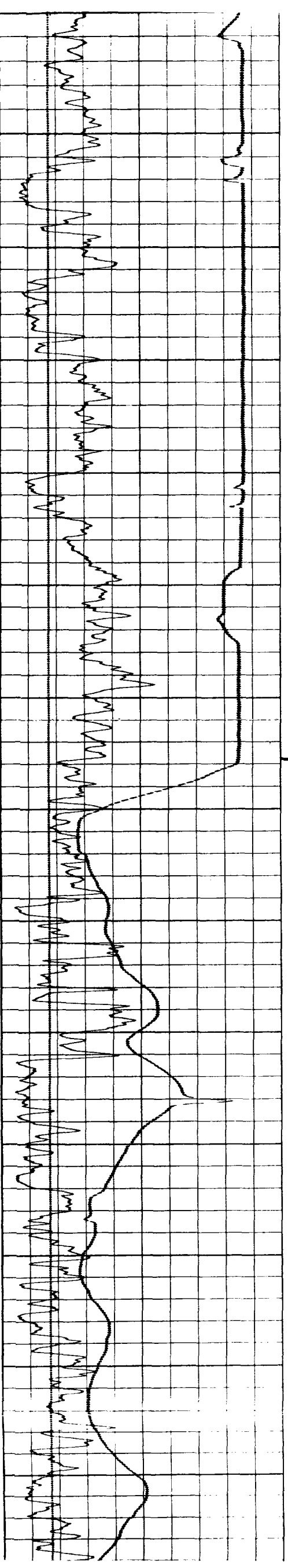
GAMMA RAY & CALIPER	DEPTH	POROSITY %
10 API/CD API UNITS		

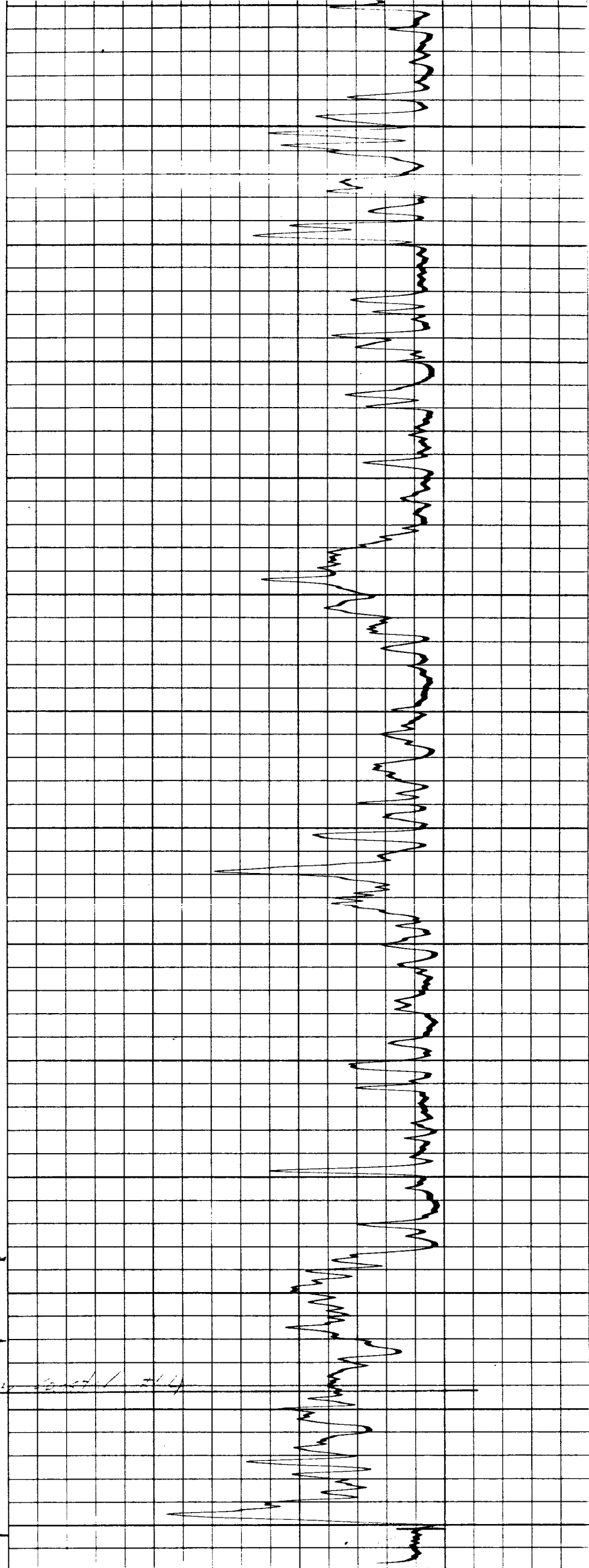




30 4000 4100 4200 4300 4400 4500

SN 4298





4500

4600

4700

4800

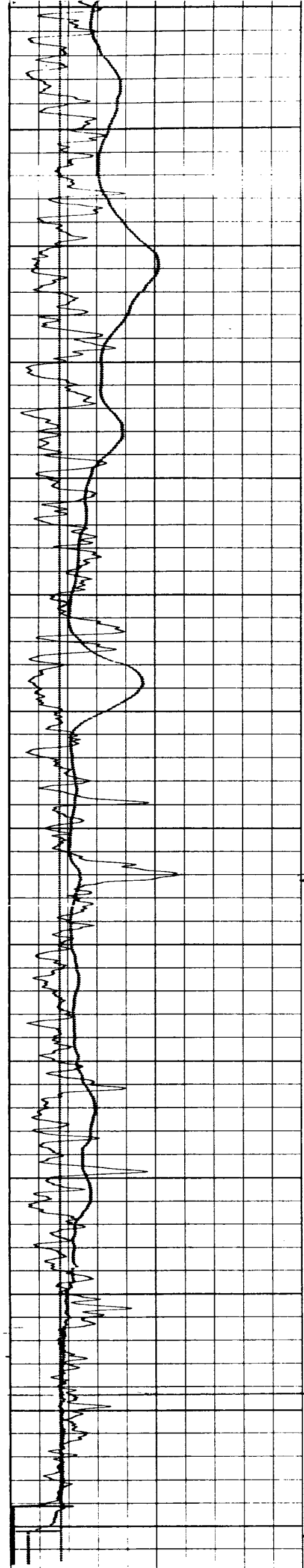
4900

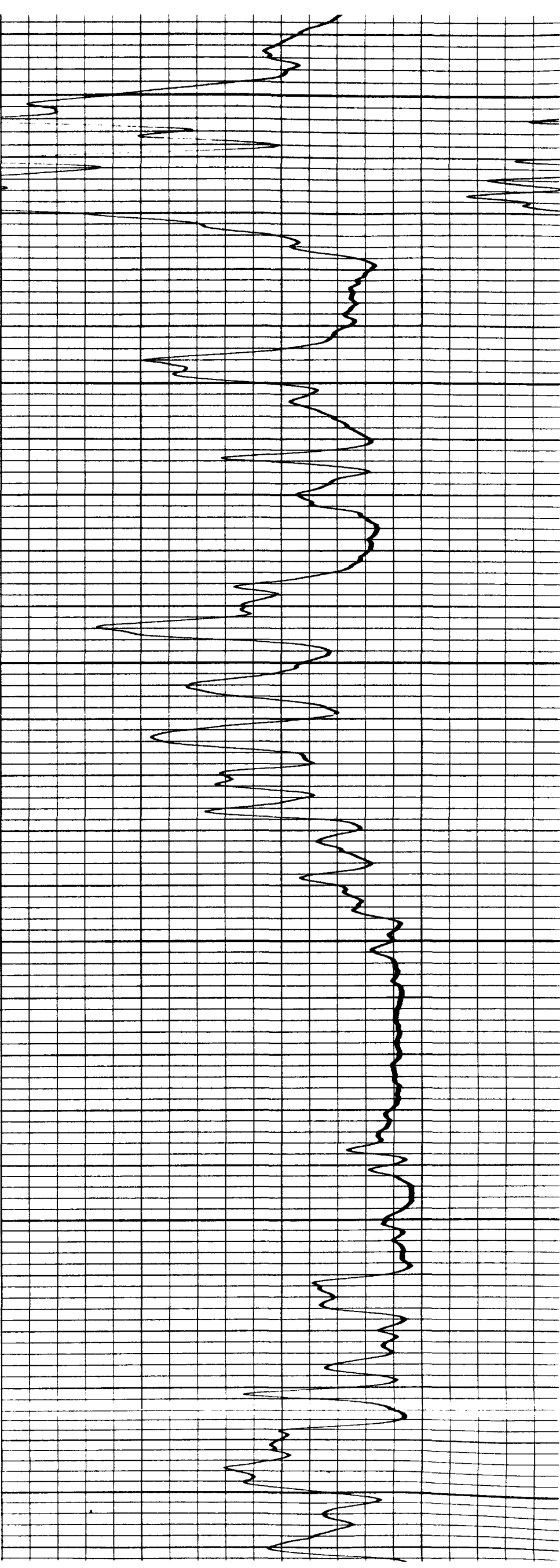
5100

5000

1000

5000

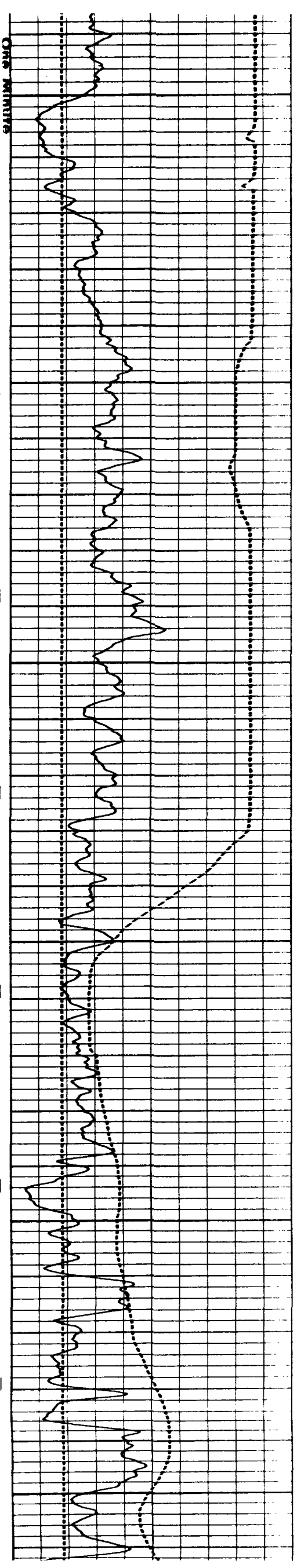




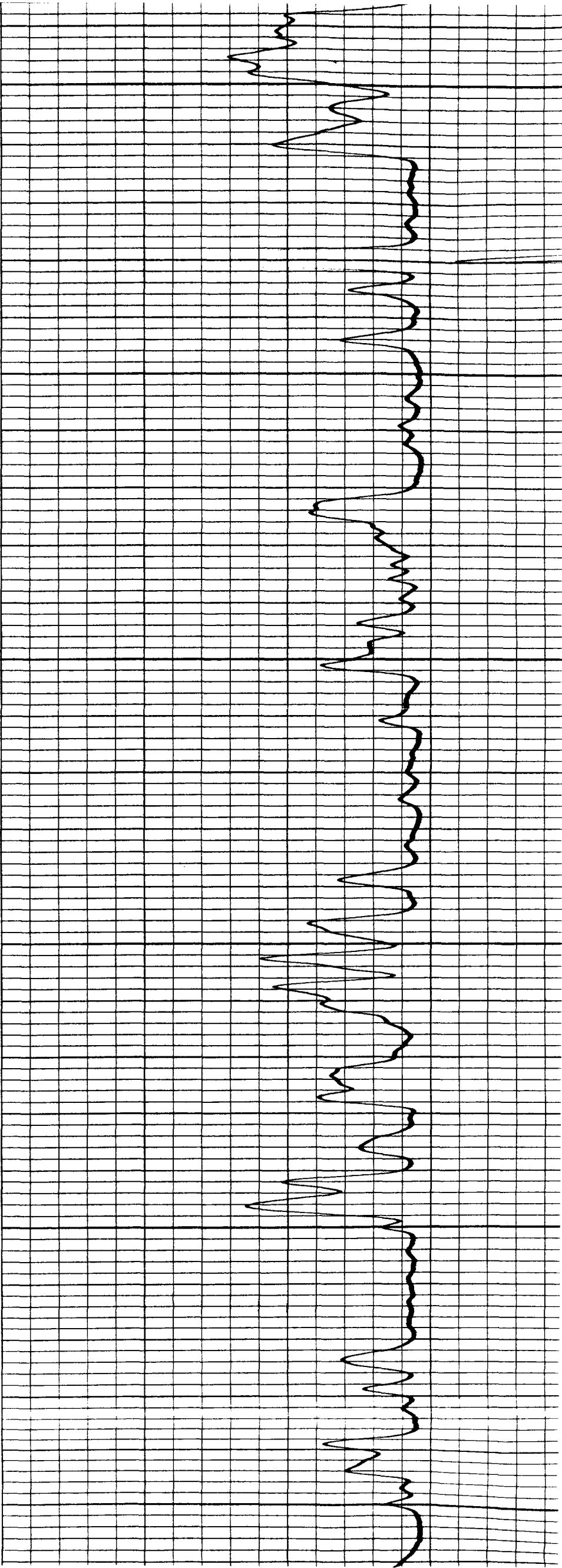
4100

4200

4300



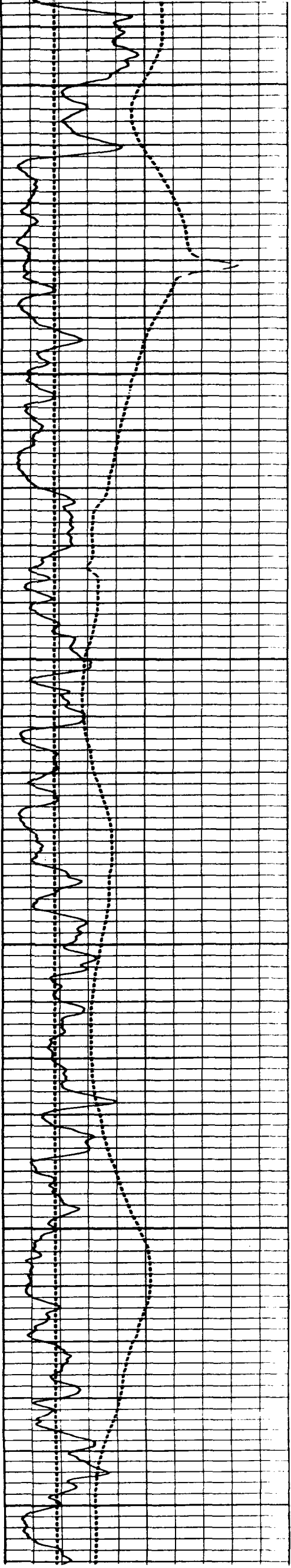
ONE MINUTE

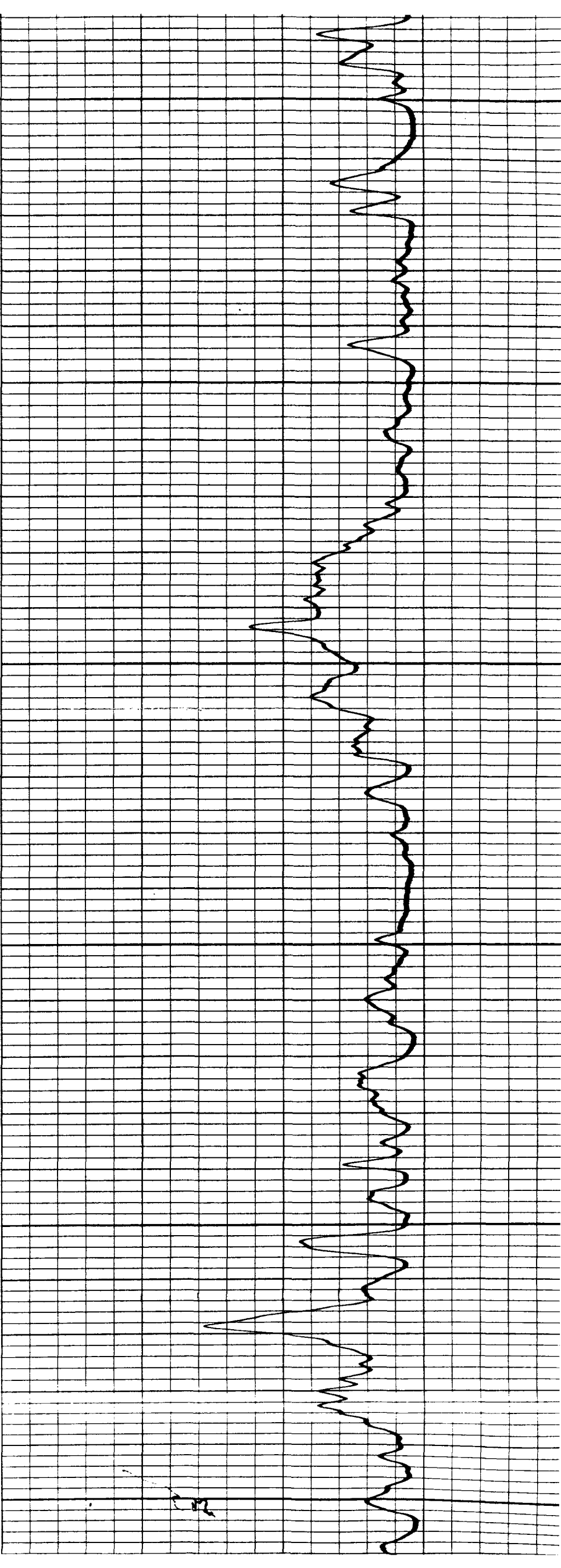


4400

4500

4600



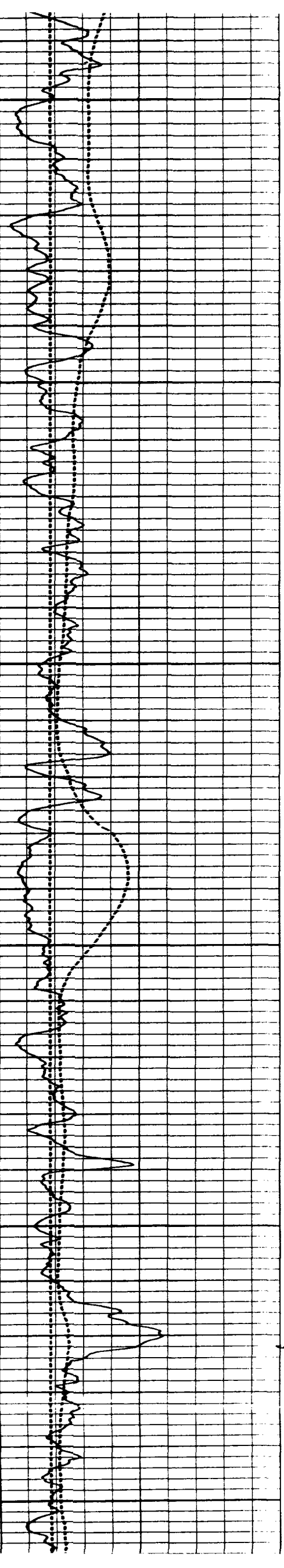


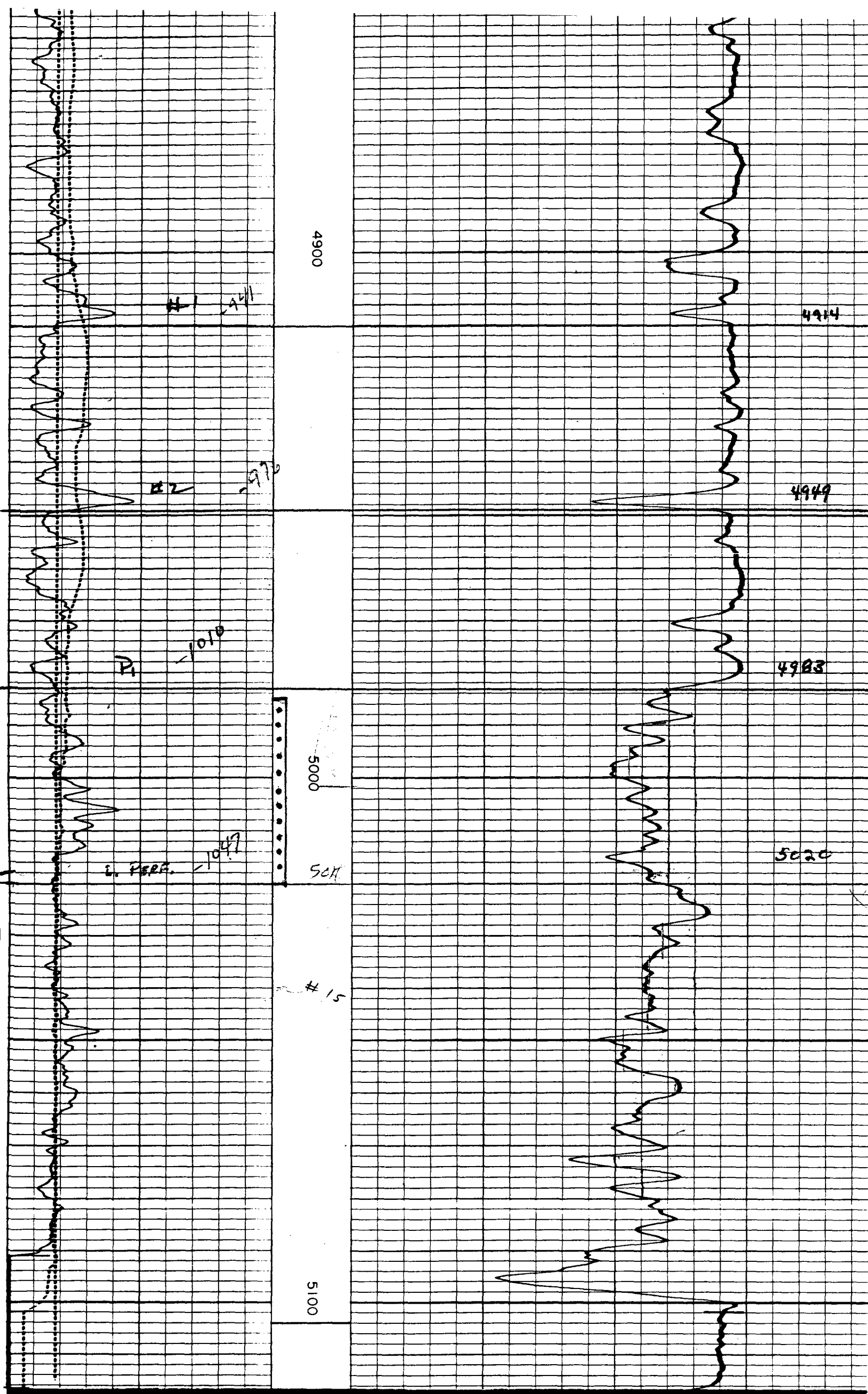
4600

4700

4800

2-2





NEUTRON LOG CALIBRATION
BEFORE LOG

60 CYCLE CALIB.
SENS: 1000

60 CYCLE CALIB.
SENS: 272

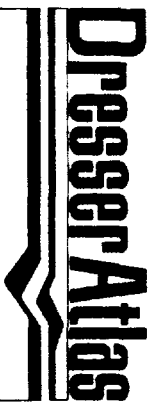
API UNITS OF CALIB. STD.	725
SENSITIVITY READING	272
MULTIPLIER	X1
ZERO SUPPRESSION	0
TIME CONSTANT	4
MEASURED CHART DIVISIONS	5.5

DresserAtlas

DIVISION OF DRESSER INDUSTRIES, INC.

DEPTH	DOLOMITE POROSITY	RESISTIVITY	WATER SATURATION
4986	5	50 OHMS	52%
4991	7	35 OHMS	49%
4992	8.5	35 OHMS	40%
5004	7	80 OHMS	31%
5008	6	420 OHMS	19%
5015	9	12 OHMS	62%
5019	6.5	25 OHMS	68%
5026	1	120 OHMS	18%
5028.5	5	22 OHMS	81%
5036	6	20 OHMS	11%
5040	6	70 OHMS	41%
5045.5	7	15 OHMS	78%
5050	9	20 OHMS	48%
5054	8	15 OHMS	68%
5059	3	140 OHMS	60%
5064	6	10 OHMS	100%
5067	8	12 OHMS	70%
5073	12	3 OHMS	92%
5091	10	5 OHMS	88%
5095	17	3 OHMS	60%

*Ave Sw
through
injection
interval =
45.7 %*



Log

FILE NO.

COMPANY OIL DEVELOPMENT CO. OF TEXAS

WELL SANTA FE PACIFIC RR. NO. 15

FIELD WEST SAWYER

COUNTY LEA STATE NEW MEXICO

LOCATION: 800' FNL & 2121' FEL

SEC 34 TWP 9-S RGE 37-E

Permanent Datum GROUND LEVEL Elev. 3962

Log Measured from K. B. 11 Ft. Above Permanent Datum

Drilling Measured from K. B.

Elevations:
KB 3973
DF
GL 3962

Date	1-23-73		
Run No.	ONE		
Depth—Driller	5100		
Depth—Logger	5102		
Bottom Logged Interval	5096		
Top Logged Interval	4000		
Casing—Driller	8 5/8@426	@	@
Casing—Logger	-		
Bit Size	7 7/8"		
Type Fluid in Hole	SALT GEL		
	4% OIL		
Density and Viscosity	10.9 37		
pH and Fluid Loss	9.4 cc	cc	cc
Source of Sample	CIRCULATED		
Rm @ Meas. Temp.	.065 @58 °F	@	@
Rmf @ Meas. Temp.	.06 @58 °F	@	@
Rmc @ Meas. Temp.	- @ °F	@	@
Source of Rmf and Rmc	MEAS.		
Rm @ BHT	.035 @110 °F	@	@
Time Since Circ.	8 1/2 HOURS		
Max. Rec. Temp. Deg. F.	110 °F	°F	°F
Equip. No. and Location	6028 HOBBS		
Recorded By	MC ATEE		
Witnessed By	MR. LEACH		

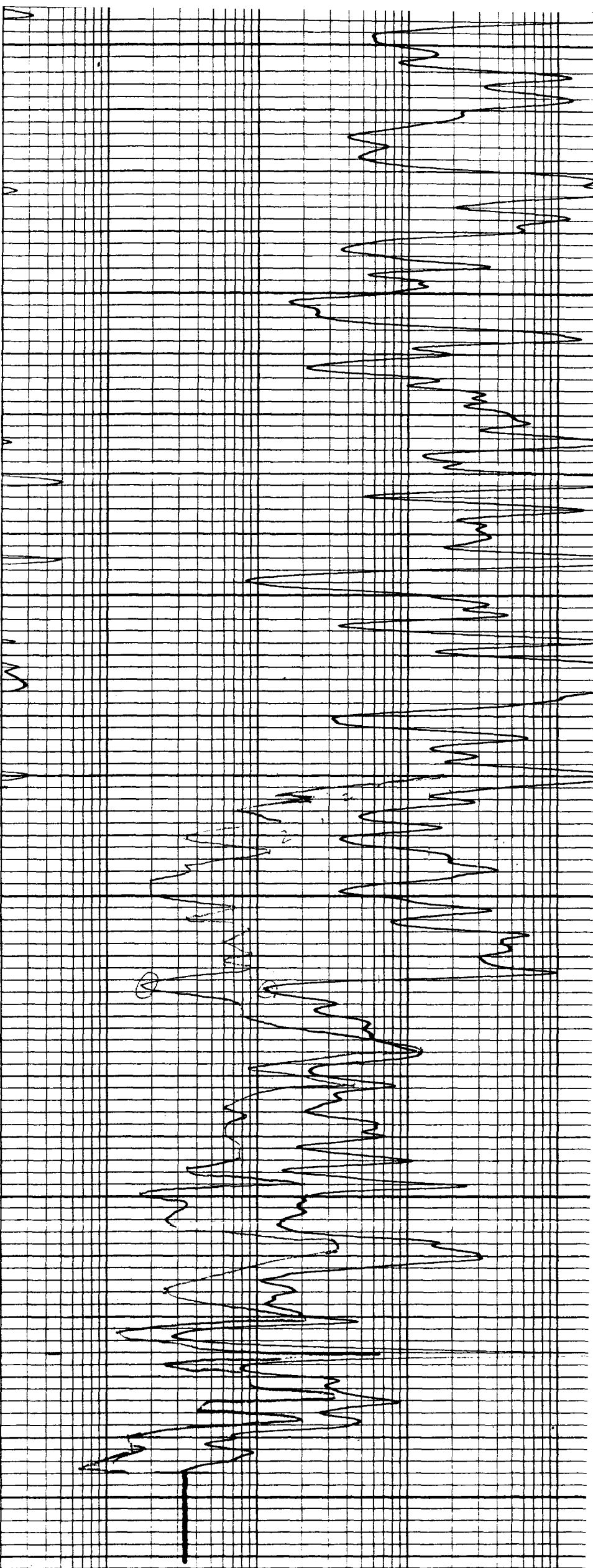
FOLD HERE ↓

THIS HEADING AND LOG CONFORMS TO API RECOMMENDED STANDARD PRACTICE RP-34

REMARKS	GAMMA RAY DRAFTED FROM SWN/GR.	Equipment Used	
		Run No.	ONE
		S. O. No.	35005
		Tool No.	SEE BELOW
		Panel No.	3577

Changes in Mud Type or Additional Samples				Scale Changes					
Date	Sample No.			Type Log	Depth	Scale Up Hole	Scale Down Hole		
Depth—Driller									
Type Fluid in Hole									
Dens.	Visc.								
pH	Fluid Loss	cc	cc						
Source of Sample				Equipment Data					
Rm @ Meas. Temp.	@	°F	@	°F	Run No.	Tool Type	Pad Type	Tool Position	Other
Rmf @ Meas. Temp.	@	°F	@	°F	ONE	1216-15		FREE	
Rmc @ Meas. Temp.	@	°F	@	°F					
Source Rmf	Rmc								
Rm @ BHT	@	°F	@	°F					
Rmf @ BHT	@	°F	@	°F					
Rmc @ BHT	@	°F	@	°F					

DETECTOR TYPE <u>SCINT.</u>		BEAM WIDTH <u>6"</u>	
DETECTOR LENGTH <u>4"</u>		GUARD LENGTH <u>80"</u>	
GAMMA RAY Radiation Intensity Increases →	DEPTH	RESISTIVITY Ohm-m	
10 API/CD API UNITS		.2 1.0 10 100 1000	
0 API 100 AP	2"=100' LR		



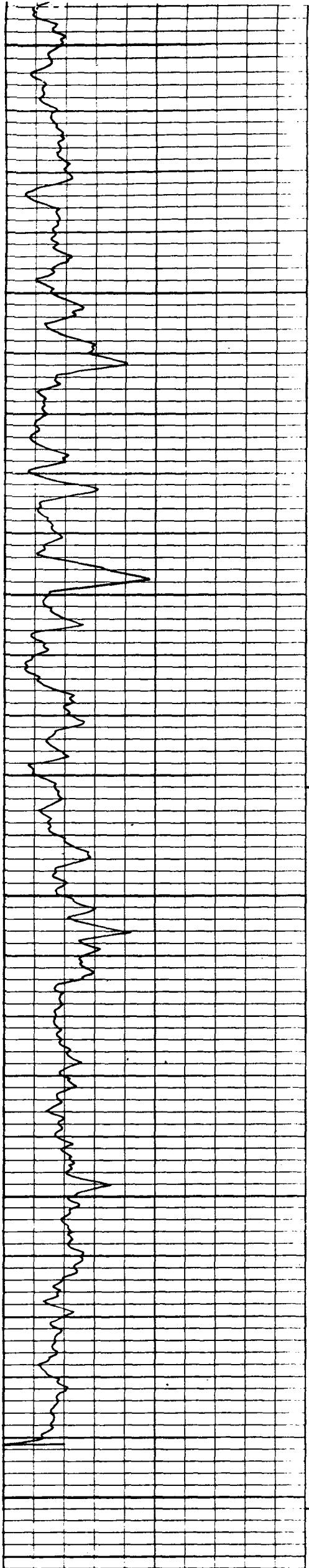
4900

2

5000

#15

5100



NEW MEXICO OIL CONSERVATION COMMISSION

APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR Santa Fe Energy Company		ADDRESS 500 W. Illinois, Suite 500, Midland, TX 79701	
LEASE NAME SFPRR	WELL NO. 15	FIELD West Sawyer (San Andres)	COUNTY Lea
LOCATION UNIT LETTER <u>B</u> ; WELL IS LOCATED <u>800</u> FEET FROM THE <u>North</u> LINE AND <u>2121</u> FEET FROM THE LINE, SECTION <u>34</u> TOWNSHIP <u>9S</u> RANGE <u>37E</u> NMPM.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY	
SURFACE CASING						
24# J-55 ST&C	8 5/8"	420'	325'	Surface	Circ 25 sx	
INTERMEDIATE						
LONG STRING						
10.5# K-55 ST&C	4 1/2"	5099'	275'	4100'	Calculated	
TUBING			NAME, MODEL AND DEPTH OF TUBING PACKER			
4.7# J-55 EUE 8rd	2 3/8"	4980'±	Guiberson Uni VI @ 4980'±			
NAME OF PROPOSED INJECTION FORMATION		TOP OF FORMATION		BOTTOM OF FORMATION		
San Andres		4228'		Est 5690'		
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS?		PERFORATIONS OR OPEN HOLES		PROPOSED INTERVAL(S) OF INJECTION		
Tubing		Perf		4985-5020' perf		
IS THIS A NEW WELL DRILLED FOR DISPOSAL?		IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED?		HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE?		
No		San Andres oil well, through perf 4985-5020'		No		
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH						
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA		
300'		None		None		
ANTICIPATED DAILY INJECTION VOLUME (BBL/S.)	MINIMUM	MAXIMUM	OPEN OR CLOSED TYPE SYSTEM	IS INJECTION TO BE BY GRAVITY OR PRESSURE?	APPROX. PRESSURE (PSIG)	
	200	1200 1100	Closed	Pressure	1000 to 1800*	
ANSWER YES OR NO WHETHER THE FOLLOWING WATERS ARE MINERALIZED TO SUCH A DEGREE AS TO BE UNFIT FOR DOMESTIC, STOCK, IRRIGATION, OR OTHER GENERAL USE -			WATER TO BE DISPOSED OF	NATURAL WATER IN DISPOSAL ZONE	ARE WATER ANALYSES ATTACHED?	
			Yes	Yes	No	
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND)						
Michael Harton, Rox 415, Tatum, NM 88267 505/398-3533						
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL						
Arco Oil & Gas Company, Box 1610, Midland, TX 79702						
Attention: B. C. Anderson, Engineering Manager						
* Present BHP @ 800 psi ±. Initial disposal pressure will be less than 1000 psi and should stay below 1000 psi for several months. As the zone becomes re-pressured, step rate tests will be run periodically to find current parting pressure and application will be made to raise disposal pressure to 50 psi below parting pressure.						
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?		SURFACE OWNER		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL		
		Yes		Yes		
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)		PLAT OF AREA		ELECTRICAL LOG		DIAGRAMMATIC SKETCH OF WELL
		Yes		Yes		Yes

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Patrick J. Gaume

Sr. Production Engineer

6-13-85
3-25-85

(Signature)

(Title)

(Date)

NOTE: Should waivers from the surface owner and all operators within one-half mile of the proposed injection well not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days from the date of receipt by the Commission's Santa Fe office. If at the end of the 15-day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing, if the applicant so requests. SEE RULE 701.

500 West Illinois
Midland, Texas 79701
915/687-3551

June 21, 1985

Mr. Michael Harton
Box 415
Tatum, NM 88267

Re: Application to Convert
SFPRR No. 15 to SWD

Dear Mr. Harton:

Santa Fe Energy Company is applying to convert its SFPRR No. 15 well to salt water disposal (SWD) into the San Andres formation at an approximate depth of 5000'. SFPRR No. 15 is in the West Sawyer (San Andres) Field and is located in Unit B, Sec. 34, T-9S, R-37E, NMPM, Lea County, New Mexico.

Please find attached New Mexico Oil Commission Division Form C-108, "Application to Dispose of Salt Water by Injection Into a Porous Formation".

Sincerely,



Hugh L. Boyt
District Production Manager

PJG:dz-455

Attachments

500 West Illinois
Midland, Texas 79701
915/687-3551

June 21, 1985

Arco Oil & Gas Company
Box 1610
Midland, TX 79702

Attention: Mr. B. C. Anderson
Engineering Manager

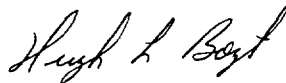
Re: Application to Convert
SFPRR No. 15 to SWD

Gentlemen:

Santa Fe Energy Company is applying to convert its SFPRR No. 15 well to salt water disposal (SWD) into the San Andres formation at an approximate depth of 5000'. SFPRR No. 15 is in the West Sawyer (San Andres) Field and is located in Unit B, Sec. 34, T-9S, R-37E, NMPM, Lea County, New Mexico.

Please find attached New Mexico Oil Commission Division Form C-108, "Application to Dispose of Salt Water by Injection Into a Porous Formation".

Sincerely,



Hugh L. Boyt
District Production Manager

PJG:dz-456

Attachments

N MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

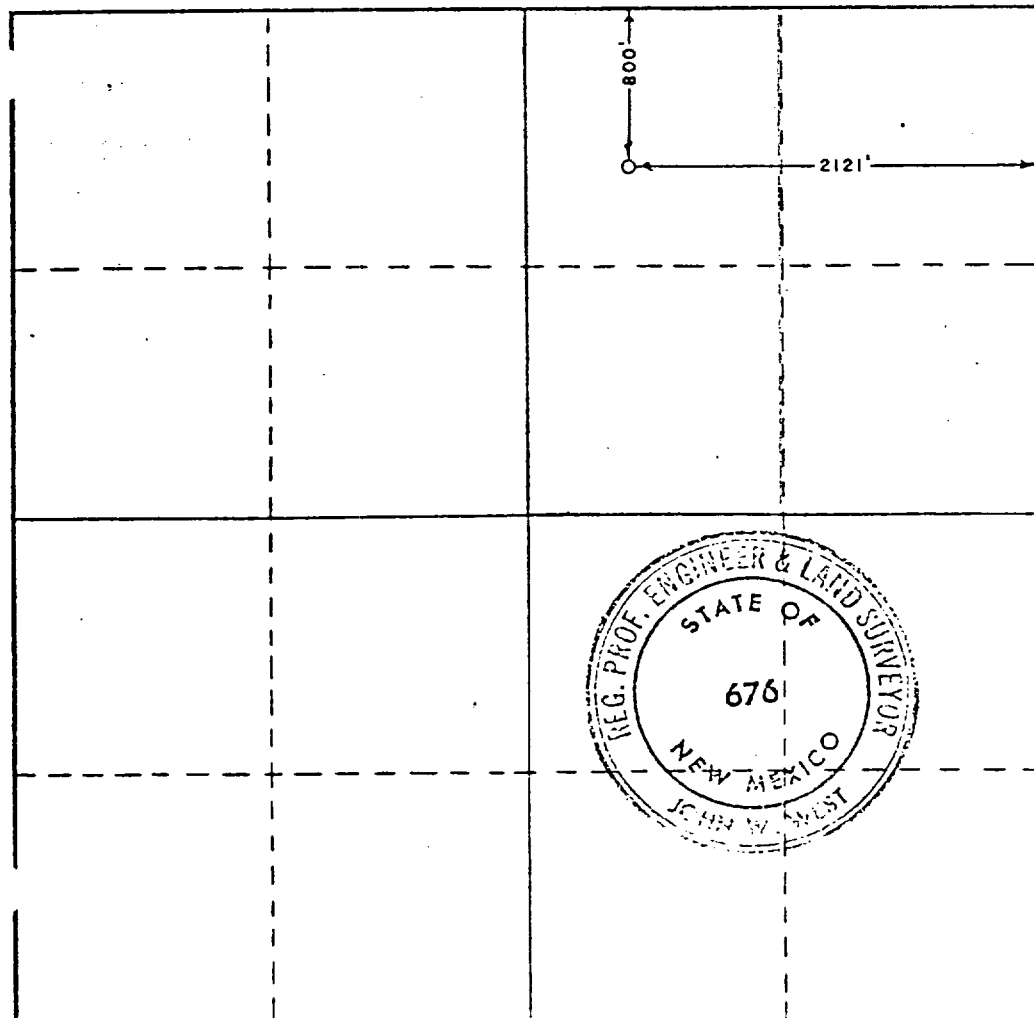
Operator OIL DEVELOPMENT CO. OF TEXAS- SANTA FE ENERGY CO.			Lease S.F.P. R.R.		Well No. 15
Unit Letter B	Section 34	Township 9 SOUTH	Range 37 EAST	County LEA	
Actual Footage Location of Well:					
800 feet from the NORTH line and		2121 feet from the EAST line			
Ground Level Elev. 3962	Producing Formation San Andres	Pool West Sawyer	Dedicated Acreage: 80 Acres		

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name
J. Wayne Kelly
Position
General Superintendent
Company
Oil Development Co. of Texas

Date
January 8, 1973

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
JANUARY 3, 1973

Registered Professional Engineer and/or Land Surveyor
John W West
Certificate No.
676

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 0

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

NO. OF COPIES RECEIVED	
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SANTA FE	
FIELD	
U.S.G.S.	
LAND OFFICE	
OPERATIONS	

OIL CONSERVATION DIVISION

P. O. BOX 2058
SANTA FE, NEW MEXICO 87501

Form C-103
Revised 10-1-7

5a. Indicate Type of Lease
State ☐ Fee ☒
5. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEFEAT OR PLUG EACH IN A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT TO DRILL" FORM C-101 FOR SUCH PROPOSALS.)

1. OIL WELL ☐ GAS WELL ☒ OTHER ☐	7. Unit Agreement Name
2. Name of Operator Santa Fe Energy Company	8. Form or Lease Name SFPRR
3. Address of Operator 500 W. Illinois, Suite 500, Midland, TX 79701	9. Well No. 15
4. Location of well UNIT LETTER B 800 FEET FROM THE North LINE AND 2121 FEET FROM THE East LINE, SECTION 34 TOWNSHIP 9S RANGE 37E NMPM.	10. Field and Pool, or Wildcat West Sawyer (San Andres)
11. Elevation (Show whether DF, RT, GR, etc.) 3962' GR, 3973' RKB	12. County Lea

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	PLUG AND ABANDONMENT ☐
PULL OR ALTER CASING ☐	OTHER ☒ Convert to SWD	CASING TEST AND CEMENT JOBS ☐	

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Convert SFPRR No. 15 to SWD (replace SFPRR No. 6 SWD which is ~~to be~~ P&A'd). Clean out to 5093', PBTD. Place well on salt water disposal through existing San Andres perfs @ 4985' to 5020'. Salt water disposal will be at or below the oil-water contact. Note - SFPRR No. 15's production history at 90 to 95% water cut. The desired water disposal capacity of the well is 1200 BWPD at 50 psi below frac pressure.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED Patrick J. Gaume Patrick J. Gaume TITLE Sr. Production Engineer

DATE 6/13/85
3-25-85

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

March 25, 1985

SFPRR No. 15
NW/4 NE/4, Unit B
800 FNL & 2121 FEL
Sec. 34-9S-37E, NMPM
Lea County, New Mexico
11 1/2 miles east & 1 mile south of
Crossroads, New Mexico
80 AC proration unit: W/2 NE/4

SFEC Well File No. NM 107-133-19
West Sawyer (San Andres) Pool
Spud: 1-14-73
8 5/8" csg 1-15-73
TD: 5100' 1-22-73
4 1/2" csg 1-23-73
Completed: 1-31-73

9-08-77 Acidized w/1000 gals
12-11-82 Last well workover report
have 161 jts tbg, Guiberson tbg
anchor, tbg pump & 7/8" & 3/4 rods.

PROD	BO	BW	MCF	GOR	OIL CUT
1973	7373	65263	4972	0674	.101
1974	5089	45869	8171	1606	.100
1975	1968	17612	4118	2092	.101
1976	4536	42698	3559	0785	.096
1977	6061	47519	6431	1061	.113
1978	7562	72367	4789	0633	.094
1979	4580	77568	4786	1045	.056
1980	3548	61814	4675	1317	.054
1981	2685	59490	4138	1541	.043
1982	4039	68382	4260	1055	.056
1983	2678	59838	7145	2668	.043
1984					
thru					
Nov.	2519	56720	6237	2476	.043

1983-84 Avg FL @ 136 jts $\approx$ 4284'
08/04/84 FL @ 156 jts $\approx$ 4914'
12/14/84 SI well when SWD station SI
03-09-85 FL @ 101 jts $\approx$ 3181.
BHP 790 psi $\pm$
03-20-85 Ran pmp in test w/407 bbl
prod wtr. Inj @ 1.6 BPM
@ 600 psi at end of test.
Pmpd most of test @ 2.4
BPM @ 900 psi. ISIP-
vacuum.

GL 2962', KB 3973', or 11' AGL

12 1/4" hole

8 5/8" 24# J-55 ST&C @ 420' w/325 sx
Cl C. Circ 25 sx.

7 7/8" hole

4985-5020' 2 JSPF (70 holes)
Acidized w/8000 gals in 2 stages

Junk - mixed assortment of tbg anchor
& pump parts

4 1/2" 10.5# K-55 ST&C @ 5099' w/275
sx Cl C

PBTD 5093'
TD 5100' D.D.

OIL WELL PIPE RECORD

OPERATOR
O.I. Development Co. & Texas

JOINT NO.	JOINT NO.	WEIGHT	GRADE	COUPLING	LEASE NAME	LEASE NO.	WELL NO.
1	161	10.5	K-55	STSC	SFPRR	SFPRR	15
Bottom 500' Bare Pipe					STATE		
					Loc	New Mexico	
					CASING SIZE	O. D. OF HOLE	DATE CASING RUN
					4 1/2"	7 7/8"	1-23-73

JT. NO.	FEET	JT. NO.	FEET	JT. NO.	FEET	JT. NO.	FEET	JT. NO.	FEET	JT. NO.	FEET	JT. NO.	FEET	JT. NO.	FEET
1	7 88	31	32 21	61	32 18	91	32 54	121	30 50	151	32 98	181		211	
2	32 10	32	30 24	62	33 26	92	33 88	122	27 97	152	29 70	182		212	
3	32 25	33	33 49	63	28 83	93	30 36	123	32 61	153	32 78	183		213	
4	31 98	34	33 48	64	32 27	94	32 95	124	30 88	154	29 44	184		214	
5	32 01	35	33 07	65	32 68	95	32 69	125	31 13	155	33 47	185		215	
6	32 78	36	33 54	66	33 02	96	30 94	126	29 64	156	29 78	186		216	
7	32 23	37	32 51	67	31 85	97	32 23	127	33 —	157	32 42	187		217	
8	32 92	38	32 72	68	31 45	98	32 54	128	30 06	158	33 71	188		218	
9	32 97	39	32 71	69	32 88	99	30 80	129	32 11	159	32 30	189		219	
10	32 36	40	33 30	70	29 91	100	33 08	130	25 10	160	32 78	190		220	
11	33 29	41	32 82	71	32 73	101	33 20	131	29 77	161	28 07	191		221	
12	31 99	42	27 18	72	26 40	102	32 39	132	32 —	162		192		222	
13	31 09	43	32 32	73	32 08	103	33 34	133	31 58	163		193		223	
14	33 15	44	32 81	74	31 90	104	32 99	134	33 —	164		194		224	
15	32 79	45	33 08	75	33 —	105	31 46	135	32 36	165		195		225	
16	31 31	46	33 03	76	33 08	106	32 56	136	33 45	166		196		226	
17	32 —	47	31 23	77	32 82	107	31 50	137	32 79	167		197		227	
18	33 22	48	33 48	78	32 —	108	32 89	138	32 88	168		198		228	
19	33 11	49	31 66	79	32 23	109	32 03	139	31 97	169		199		229	
20	33 34	50	33 45	80	32 75	110	29 38	140	31 39	170		200		230	
21	33 10	51	32 81	81	27 —	111	32 49	141	32 22	171		201		231	
22	28 21	52	25 19	82	32 15	112	32 88	142	31 62	172		202		232	
23	32 50	53	32 13	83	32 71	113	32 85	143	33 63	173		203		233	
24	30 62	54	32 54	84	32 87	114	32 70	144	32 22	174		204		234	
25	29 85	55	33 —	85	30 56	115	31 10	145	31 50	175		205		235	
26	33 10	56	33 23	86	28 09	116	32 67	146	32 30	176		206		236	
27	33 29	57	32 85	87	32 83	117	29 53	147	31 13	177		207		237	
28	32 85	58	32 52	88	33 19	118	29 60	148	30 44	178		208		238	
29	32 30	59	33 —	89	31 41	119	33 65	149	30 58	179		209		239	
30	33 79	60	30 90	90	32 99	120	32 64	150	32 27	180		210		240	
TOT. COL. 1	944 38	TOT. COL. 2	966 50	TOT. COL. 3	951 12	TOT. COL. 4	963 86	TOT. COL. 5	942 10	TOT. COL. 6	347 43	TOT. COL. 7		TOT. COL. 8	

COL. 2	966 50	CEMENTING INFORMATION						SCRATCHERS		JOINTS LEFT OVER (1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th)	
COL. 3	951 12	NO. SACKS	TYPE	ADDITIVES	CIRCULATING BEFORE CEMENTING	MIN.	TYPE	NO. JOINTS	FOOTAGE		
COL. 4	963 86	215	C	27 bags 75 lb/sk 7590 lbs			None	161	5115.39		
COL. 5	942 10	PUMP PRESSURES	CIRCULATING	DISPLACING	WHEN PLUG HIT	MAXIMUM	FROM	TO	WEIGHT	GRADE	
COL. 6	347 43	0	LBS.	1100	LBS.	1800	LBS.			10.5	K-55
COL. 7		DISPLACING PUMP						SPACING	NO.	COUPLING	
COL. 8		Plg down 11:15 pm						50		STSC	
COL. 9		PIPE ROTATED	RECIPROCATED	WORKED DURING	AND/OR AFTER CEMENTING	TOTAL TIME WORKED	CENTRALIZERS		RAN	JOINTS	
COL. 10		NO. PLUGS USED	RETURNS	CEMENT TOP	SHOE DOWEL COLLAR	TYPE	SET AT				
COL. 11		2			Reg Guide	Insert	First 8 collars		5099'		
COL. 12		STRING WEIGHT				WEIGHT ON HANGER	FROM	TO	DATE AND TIME DELIVERED		
COL. 13											
COL. 14		SIGNATURE						SPACING	NO.	REACHED BOTTOM	
COL. 15		J. L. Oswald									
GRAND TOTAL	515 39	USE BACK OF SHEET FOR REMARKS									

J.W.

OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO

P. O. BOX 2088 - SANTA FE

87501

DIRECTOR

JOE D. RAMEY

LAND COMMISSIONER

PHIL R. LUCERO

For
ATW
File in Nm book
located in building



STATE GEOLOGIST

EMERY C. ARNOLD

SANTA FE ENERGY CO. SFPRR #15

Memo No. 3-77

August 24, 1977

MEMORANDUM

APPLICATION TO
CONVERT TO SWD

TO: OPERATORS AND ATTORNEYS

FROM: JOE D. RAMEY, SECRETARY-DIRECTOR

SUBJECT: APPLICATIONS FOR APPROVAL OF SECONDARY RECOVERY OR SALT
WATER DISPOSAL INJECTION WELLS

The Commission has delayed revising its Rules and Regulations relative to injection wells because of the impending U. S. Environmental Protection Agency Underground Injection Control Regulations. During the interim before those regulations may be finalized, the following policy shall apply to applications for approval of injection wells whether by hearing or by administrative order:

4985 X.02 #/ft.

= 997 PSI

USE 1000 #

(1) No surface injection pressure greater than 0.2 psi per foot of depth to the top of the injection zone will be permitted unless there is strong evidence that the strata confining the injection fluid has a fracture gradient which would support a higher pressure.

(2) That applications must include a tabular summary of all wells within one-half mile of the injection well(s) and which penetrate the injection zone showing all casing strings, setting depths, sacks of cement used, cement tops, total depth, producing interval, well identification, and location. Applications for expansion of projects need not include the tabulation if the same is on file and no additional wells are included.

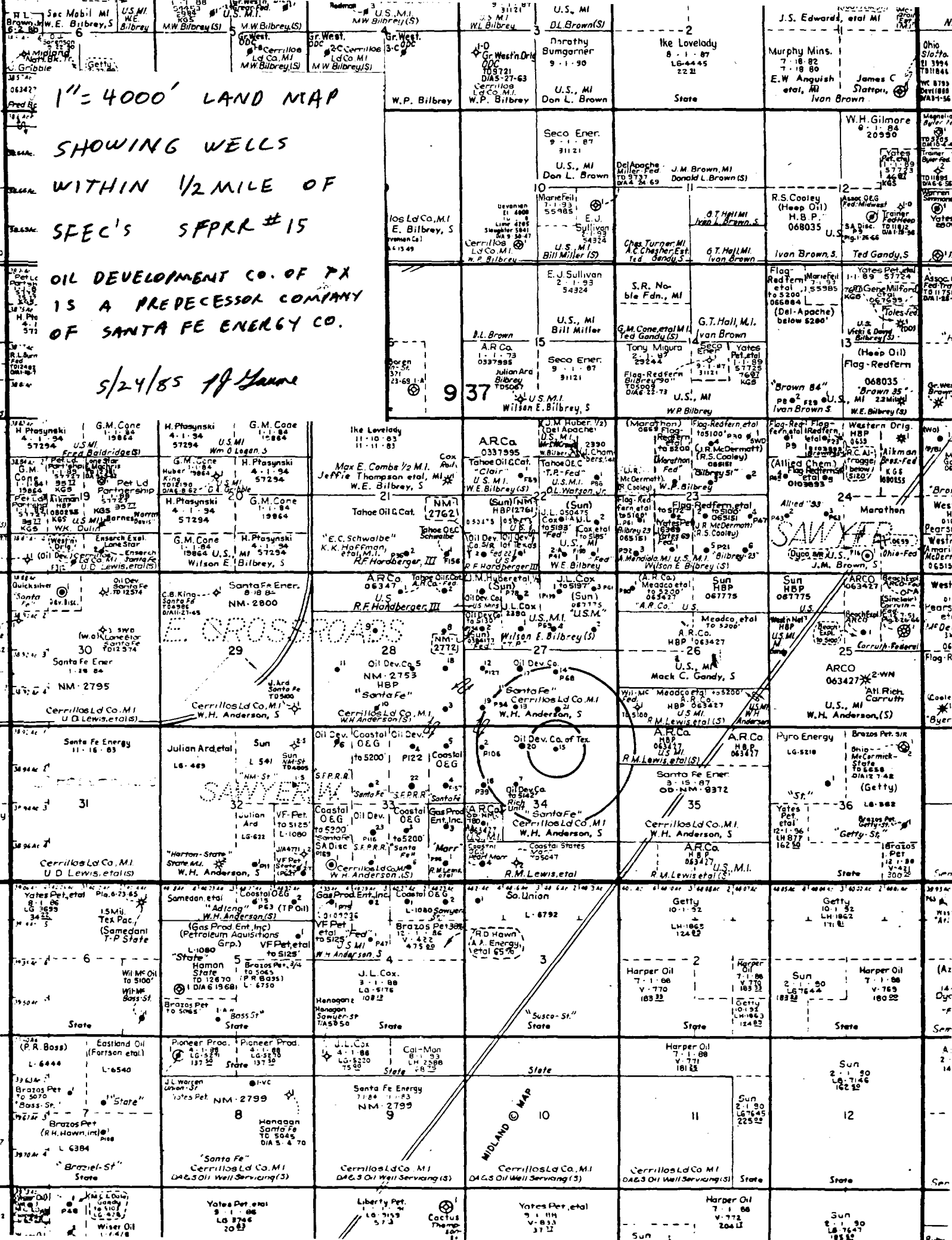
(3) Application must include a schematic of all plugged and abandoned wells within the one-half mile radius and which have penetrated the injection zone showing all information required under (2) above plus the size and location of all plugs and the date of abandonment. Applications for expansion of projects need not include the schematics if the same is on file and no additional wells are included.

WELL DATA
SHEETS ATTACHED
ON ALL OFFSET
WELLS AT & WITHIN
1/2 MILE RADIUS.

ALL OFFSETS ^{ARE} OPERATED
BY SPEC & WERE DRILLED
AT ABOUT THE TIME #15
WAS DRILLED

NO PLUG'D
WELLS WITHIN
1/2 MILE

7/2/85
6/14/85



WELL SKETCH

Operator: Santa Fe Energy Lease/Unit: SFP RR No: 2
 Field: WEST SAWYER County: LEA State: NM
 Producing Formation: SAN ANDRES, D Status: _____
 Spud: 4/13/70 Initial Completion: 5/13/70 Last Workover/Repair: 5/15/75

UNIT D, 660 F N 4 E L, Sec 34 - T 9 S - R 37 E - NM 1 M, Lea Co. NM

" # Cond. set @ _____' w/ _____ sx. TOC _____'
 8 5/8" H-40 24 # Surf. pipe set @ 237 RKB w/ 300 sx. TD 0
 TOC

San Andres

Zone A 4795
 " B 4985
 " C 4918
 " D 4947

7 1/8" H-40

4760 2 JPF, treated w/ 250 gal 15% acid followed by 8000 gal W-26
 CR (5/11/70) w/ 30 ball sealers in 2 stages

72
 78

4990

PBTD

5012 4 1/2" K-55 10.5# prod pipe set @ 5034 RKB w/ 350 sx. TOC 4010 RKB
 CR (5/11/70)

DTD 5034 Max Deviation 1 3/4 ° Depth 4225

LTD _____ BH Loc. (if known) _____

Tubing: 2 3/8" 4995 RKB Sucker Rods: _____

Pump: _____ Pumping Unit: _____

Comments: _____

DATA APPROVAL

Production Engineer _____

dz-293 Initially done by FAC 3/25/85

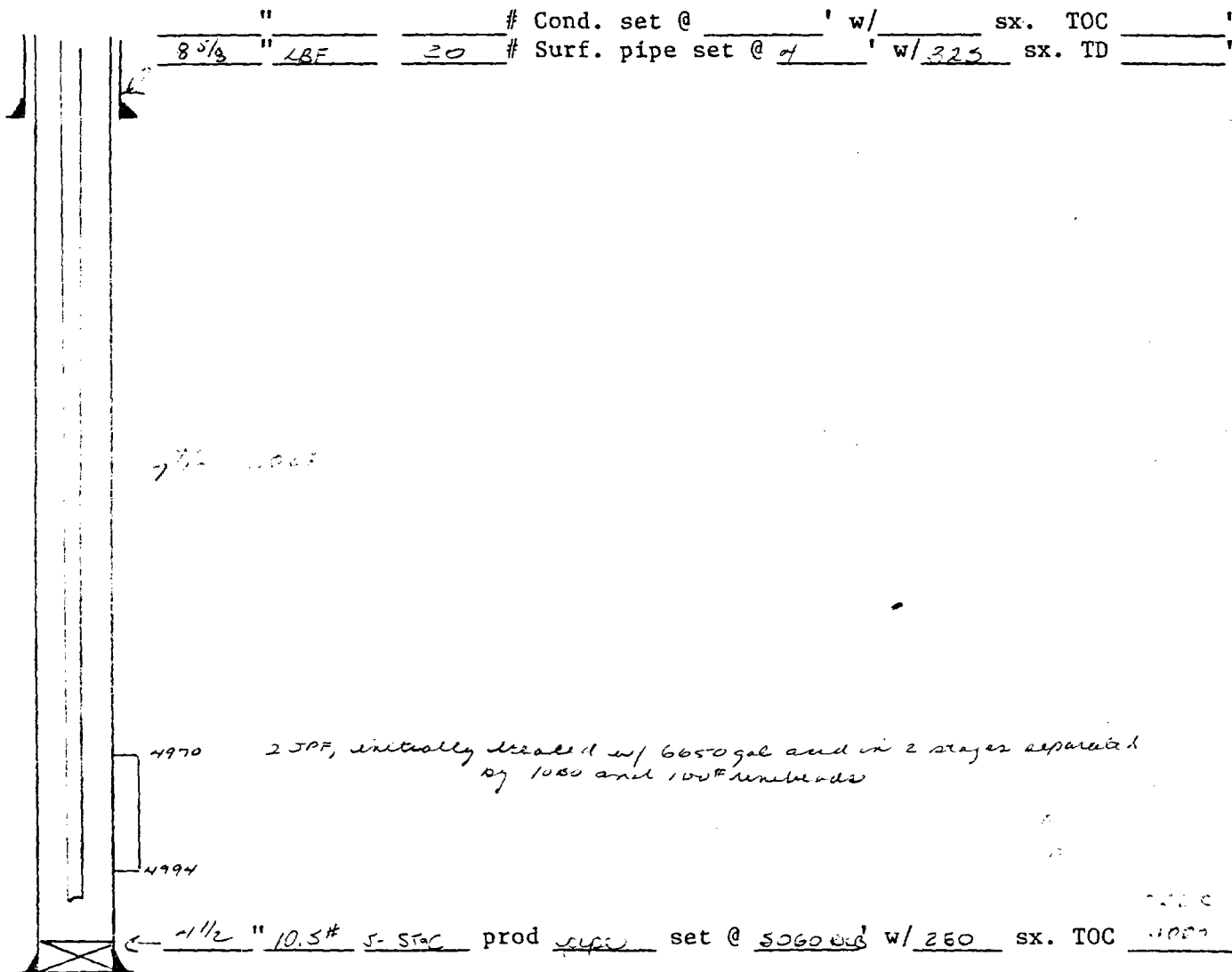
Date _____

Page 1 of 3

WELL SKETCH

Operator: State E Energy Lease/Unit: SEPR No: 17
 Field: WEST S.W. 1/4 County: LEA State: N.M.
 Producing Formation: San Andres D Status: _____
 Spud: 11/17/70 Initial Completion: 12/13/70 Last Workover/Repair: 2/1/82

UNIT F, 1980 FHL + 1780 FWL, Sec 34, T9S, R37E, N44PM, LIA CO. N.M.



DTD 5060' Max Deviation 1 1/4 ° Depth 3717' 1" @ 1910'

LTD 5046' BH Loc. (if known) _____

Tubing: 2 7/8" - 5010

Sucker Rods: _____

Pump: _____

Pumping Unit: _____

Comments: _____

DATA APPROVAL

Production Engineer _____

dz-293

initially comp by KRC 1/12/82

Date _____

Page 1 of 2

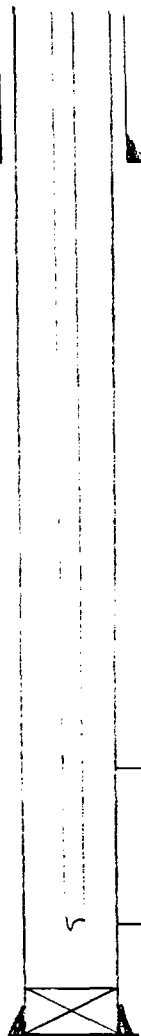
WELL SKETCH

Operator: Santa Fe Energy Lease/Unit: SCF No: 12
 Field: WEST SERRANO County: LEA State: NM
 Producing Formation: Sr. And. D Status: _____
 Spud: 11/25/71 Initial Completion: 12/17/71 Last Workover/Repair: 12/1/71

UNIT N, 1780 FNL, 660 FSL, Sec 27, T9S, R37E, NM/1A, Lea Co., 1/1A

" 8 5/8 " H-40 # Cond. set @ _____ ' w/ _____ sx. TOC _____
STC-R3 # Surf. pipe set @ 200 ' w/ 325 sx. TD 0
 TOC

P8TD
5034



4 1/2 " K-55 10.5 # prod pipe set @ 5050 ' w/ 250 ' sx. TOC 4000
STC R-2 CALC P

DTD 5050 ' Max Deviation 1 1/4 ° Depth 3732 '

LTD 5049 ' BH Loc. (if known) _____

Tubing: 2 3/4" e 5000'

Sucker Rods: _____

Pump: _____

Pumping Unit: _____

Comments: _____

DATA APPROVAL

Production Engineer _____

dz-293

initially comp. by KAC 2/2/72

Date _____

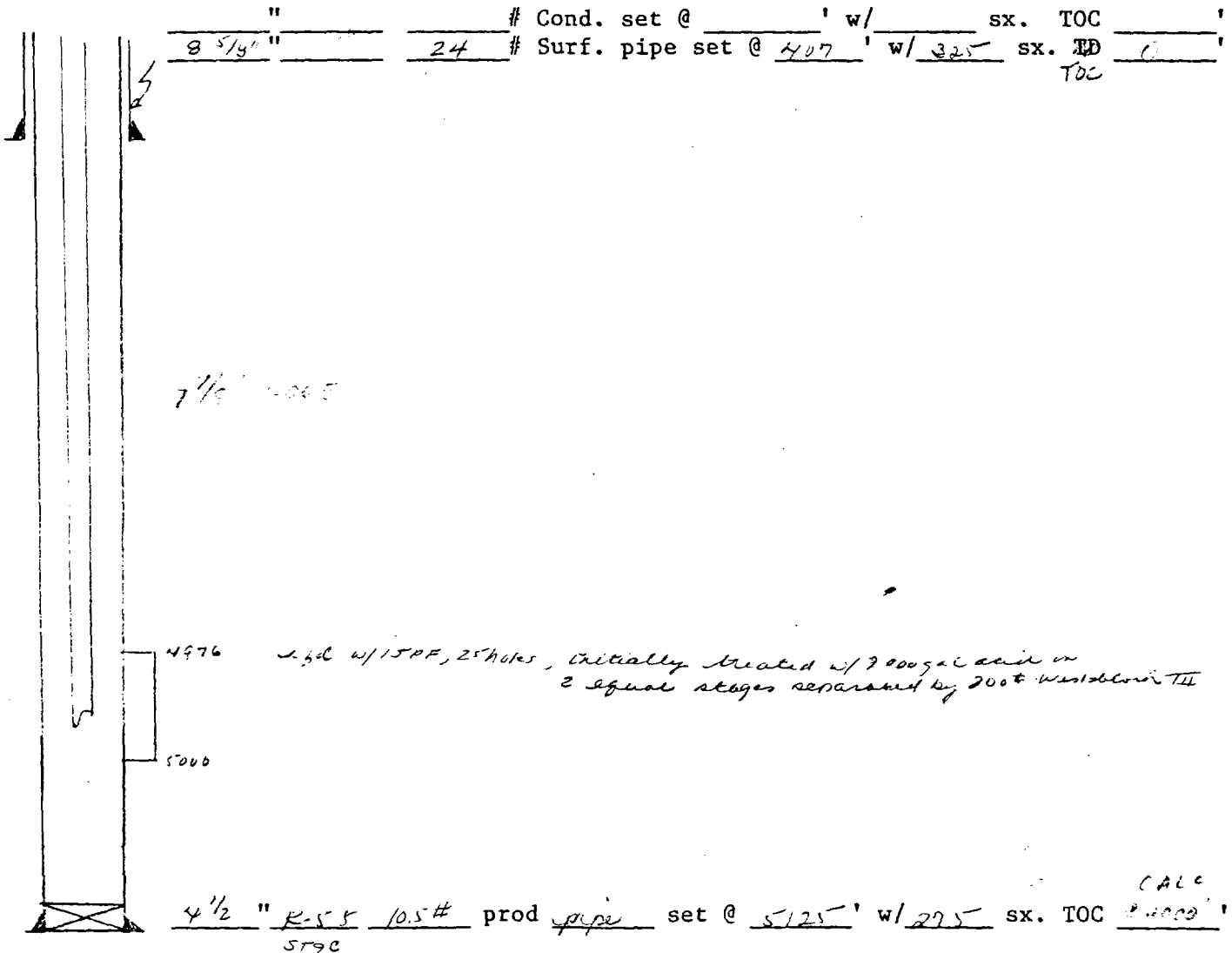
Page 1 of 1

WELL SKETCH

Keep on top

Operator: Santa Fe Energy Lease/Unit: SFPRR No: 12
 Field: 155 SAN JUAN County: LEA State: N.M.
 Producing Formation: San Andres D Status: _____
 Spud: 9/19/72 Initial Completion: 4/19/77 Last Workover/Repair: 12/15/84

UNIT J, 1839 TSL, 2121 FEL, Sec 27, T9S, R37E, N14PA, Lea Co, N.M.



DTD 5125' Max Deviation 1° Depth 1990'

LTD 5122' BH Loc. (if known) _____

Tubing: 2 3/8" c 4939'

Sucker Rods: _____

Pump: _____

Pumping Unit: _____

Comments: _____

DATA APPROVAL

Production Engineer _____

dz-293

initially comp. by KA 3/28/85

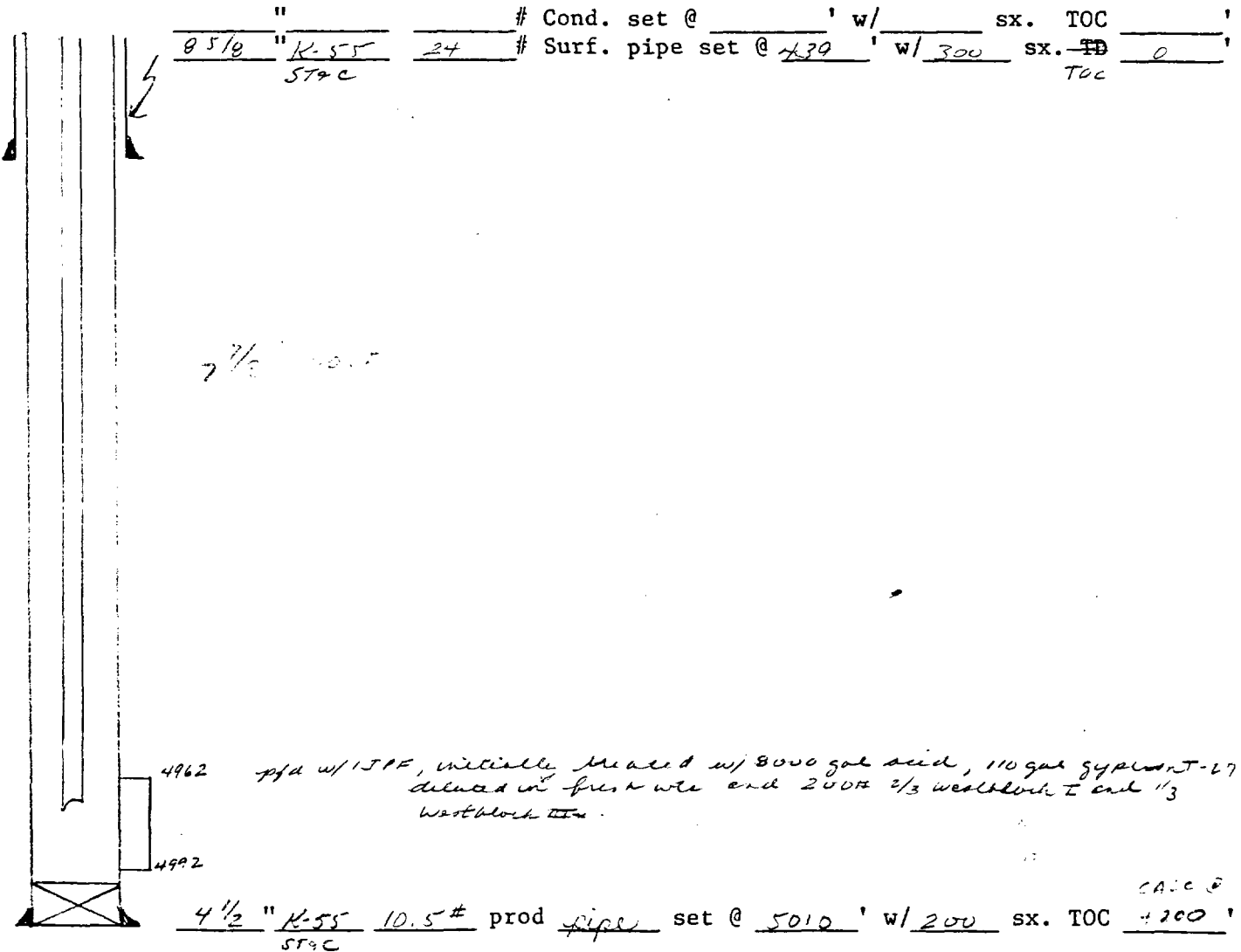
Date _____

Page 1 of 2

WELL SKETCH

Operator: Santa Fe Energy Lease/Unit: SFRR No: 16
 Field: West San Juan County: LEA State: N.M.
 Producing Formation: San Andres D Status: _____
 Spud: 2/1/76 Initial Completion: 3/11/76 Last Workover/Repair: 4/13/79

UNIT E, REC FNL, 660 FWL, Sec 34, T9S, R37E, N41M Lea Co., N.M.



DTD 5010' Max Deviation 1° Depth 452'
 LTD _____' BH Loc. (if known) _____
 Tubing: 2 3/8" e 49-76 Sucker Rods: _____
 Pump: _____ Pumping Unit: _____
 Comments: _____

DATA APPROVAL

Production Engineer _____

dz-293

initially comp'd etc 3/20/85

Date _____

Page 1 of 2

Keep on top

1.1.11 C, 1780 TNL, Sec TNL, Sec 34, T9S, R37E, N14MM, Lea Co., NM.

DVE 2700

77-10028

4978 spl w/ 1 JPF; initially treated w/ 5000 gal 20% retarded acid in 3 equal stages w/ 150# benigrone used
flakes between stages

5009

4 1/2" K-55 10.5" # prod type set @ 5023 w/ 250 sx. TOC 0 ^{SURF}

PBTD
5017

DTD 5023 ' Max Deviation / ° Depth 3420 '

LTD 5022' BH Loc. (if known)

Tubing: 2 3/4" @ 4099

Pump :

Sucker Rods:

Pumping Unit:

Comments:

Production Engineer

dz-293

enclos. comp. by RHC 3/29/85

Date _____

Page 1 of 2



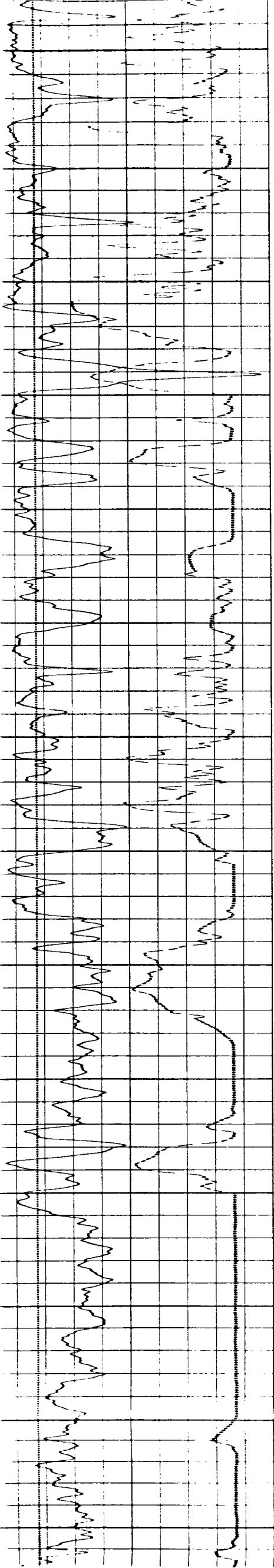
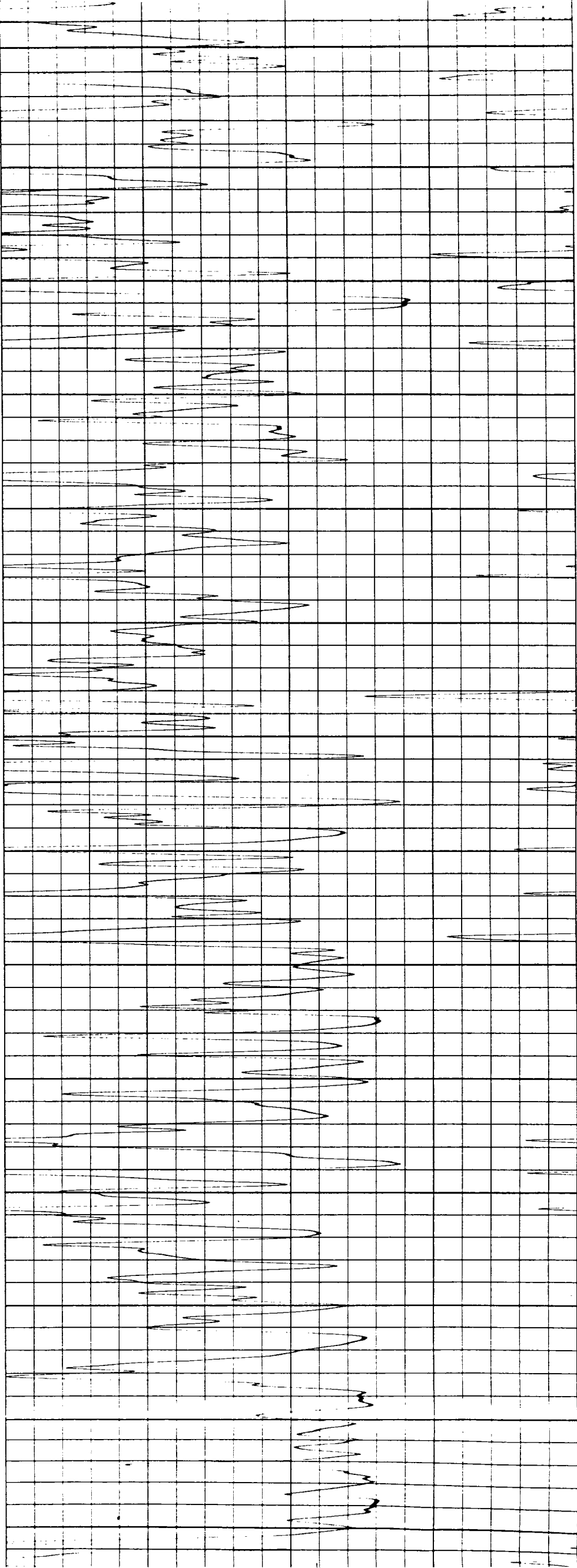
Sidewall Neutron
Gamma Ray

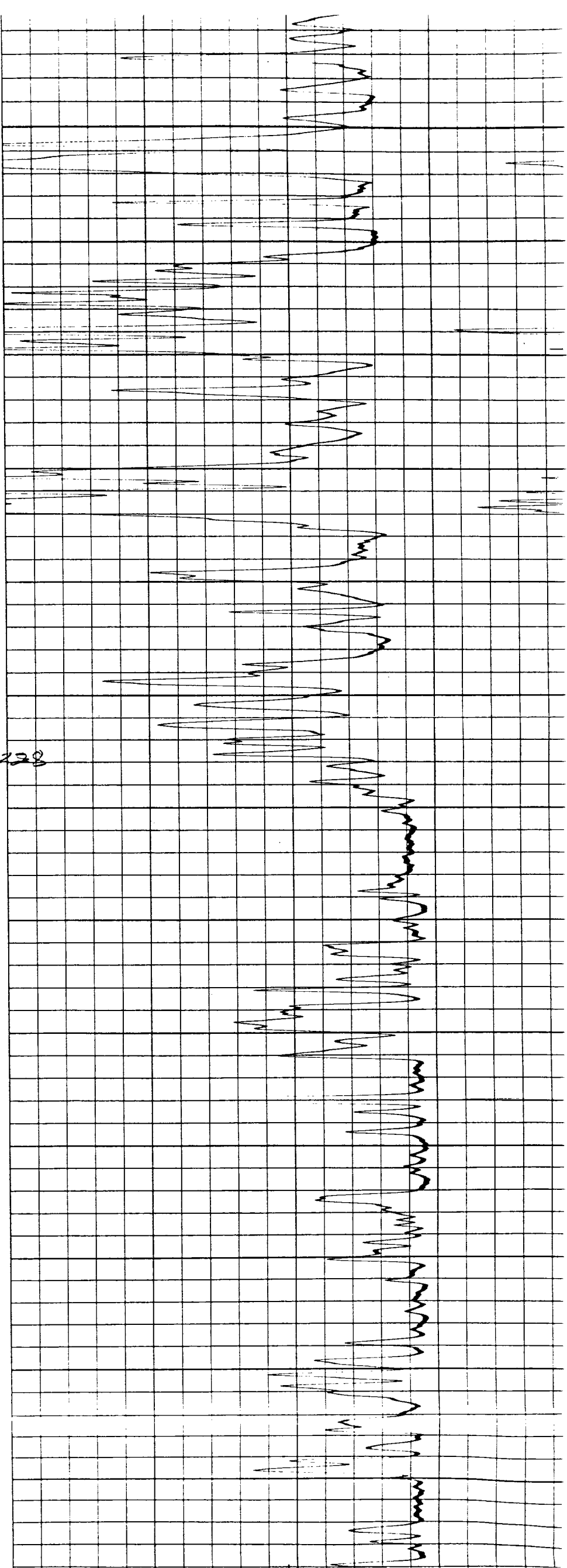
FILE NO.	COMPANY OIL DEVELOPMENT CO. OF TEXAS.		
WELL	SANTA FE PACIFIC RR. NO. 15		
FIELD	WEST SAWYER		
COUNTY	LEA	STATE	NEW MEXICO
LOCATION:	800' FNL & 2121' FEL		Other Services L/L
SEC 34	TWP 9-S	RGE 37-E	
Permanent Datum	GROUND LEVEL	Elev.	3962
Log Measured from	K. B.	11	Ft. Above Permanent Datum
Drilling Measured from	K. B.		
Elevations: KB 3973 DF CL 3962			
Date	1-23-73		
Run No.	ONE		
Depth—Driller	5100		
Depth—Logger	5104		
Bottom Logged Interval	5102		
Top Logged Interval	SURFACE		
Casing—Driller	8 5/8 426	@	@
Casing—Logger	-		
Bit Size	7 7/8"		
Type Fluid in Hole	SALT GEL		
	4% OIL		
Density and Viscosity	10.9 37		
pH and Fluid Loss	9.4 cc	cc	cc
Source of Sample	CIRCULATED		
Rm @ Meas. Temp.	.065 @ 58 °F	@	@
Rmf @ Meas. Temp.	.06 @ 58 °F	@	@
Rmc @ Meas. Temp.	- @ °F	@	@
Source of Rmf and Rmc	MEAS.		
Rm @ BHT	.035 @ 110 °F	@	@
Time Since Circ.	3 HOURS		
Max. Rec. Temp. Deg. F.	110 °F	°F	°F
Equip. No. and Location	6078 HOBBS		
Recorded By	MC ATEE		
Witnessed By	MR. LEACH		

FOLD HERE ↓ THIS HEADING AND LOG CONFORMS TO API RECOMMENDED STANDARD PRACTICE RP-31

Gamma Ray				Equipment Data				Sidewall Neutron				
Run No.	ONE			Run No.	ONE							
Tool Model No.	420			Log Type	N/EN							
Diam.	3 3/8"			Tool Model No.	2409							
Detect. Model No.	RGDA			Serial No.	393							
Type	SCINT.			Diam.	3"							
Length	4"			Detect. Model No.	D3H							
Dist. to N. Source	136"			Type	P-COUNTER							
				Length	4"							
Computer Data				Source Model No.	S17R5							
420	60			Serial No.	3747							
1914	6			Type	AM BE							
				Strength	4 1/2 CURIES							
Logging Data												
General				Sidewall Neutron				Gamma Ray				
Run No.	Depths		Speed Ft./Min.	T.C. Sec.	Sens. Settings	Porosity			T.C. Sec.	Sens. Settings	Zero Div. L or R	API G.R. Units/Div.
	From	To				Zero	Units/Div.	Scale				
1	5102	1830	REC	1	272	L-5.45	2%/132	30%-0	1	686	0	10
1	1830	SURF.	REC						1	686	0	10
Remarks: CLOSED PAD @ 1830' TO KEEP FROM DAMAGING HOLE. INSTRUMENT KEPT HANGING. HAD TO CLOSE ARMS TO FREE INSTRUMENT EACH TIME									Equipment Used			
									Run No.	ONE		
									S. O. No.	35005		
									Tool No.	SEE ABOVE		
									Elec. No.	SEE ABOVE		
									Panel No.	24643-15(5071-20)		

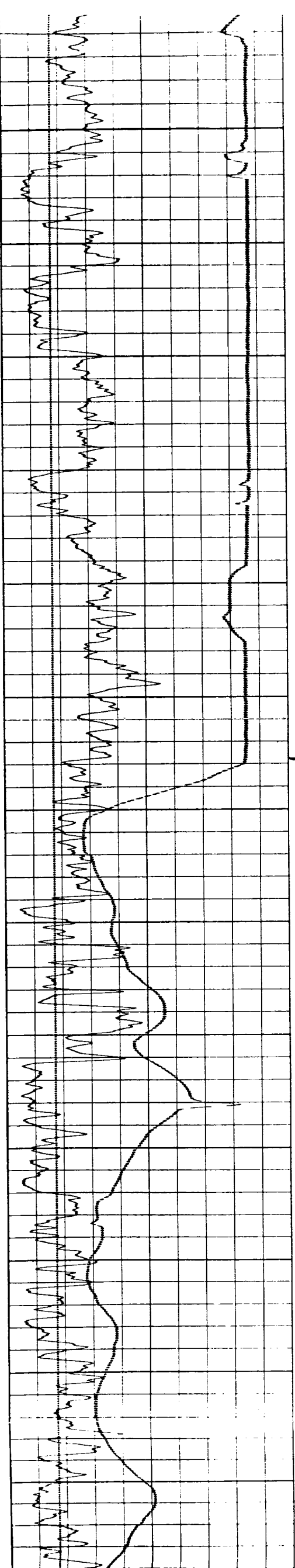
GAMMA RAY & CALIPER	DEPTH	POROSITY %
10 API/CD API UNITS		
0 API	100 API	

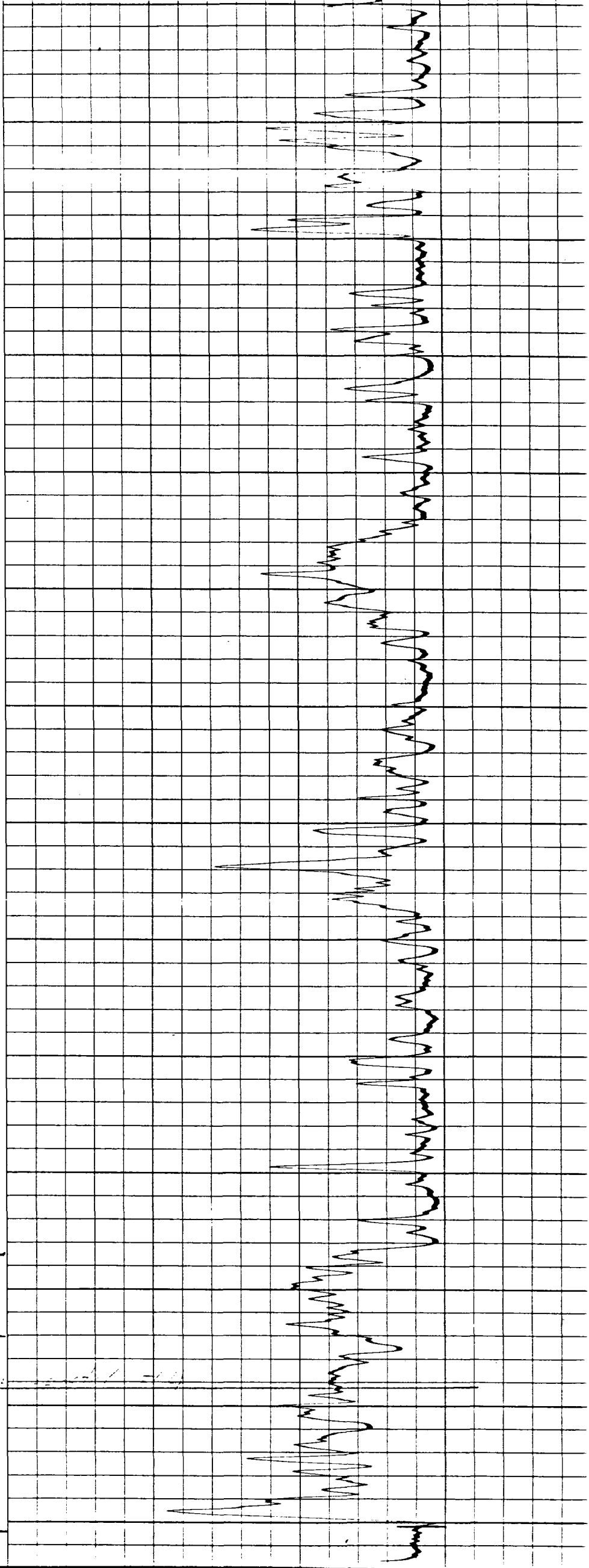




0 4000 4100 4200 4300 4400 4500

SN 4228





4500

4600

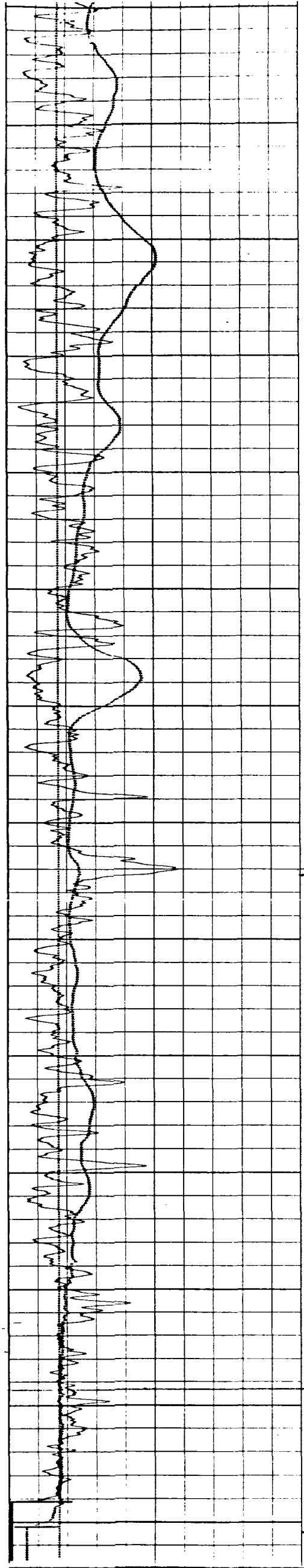
4700

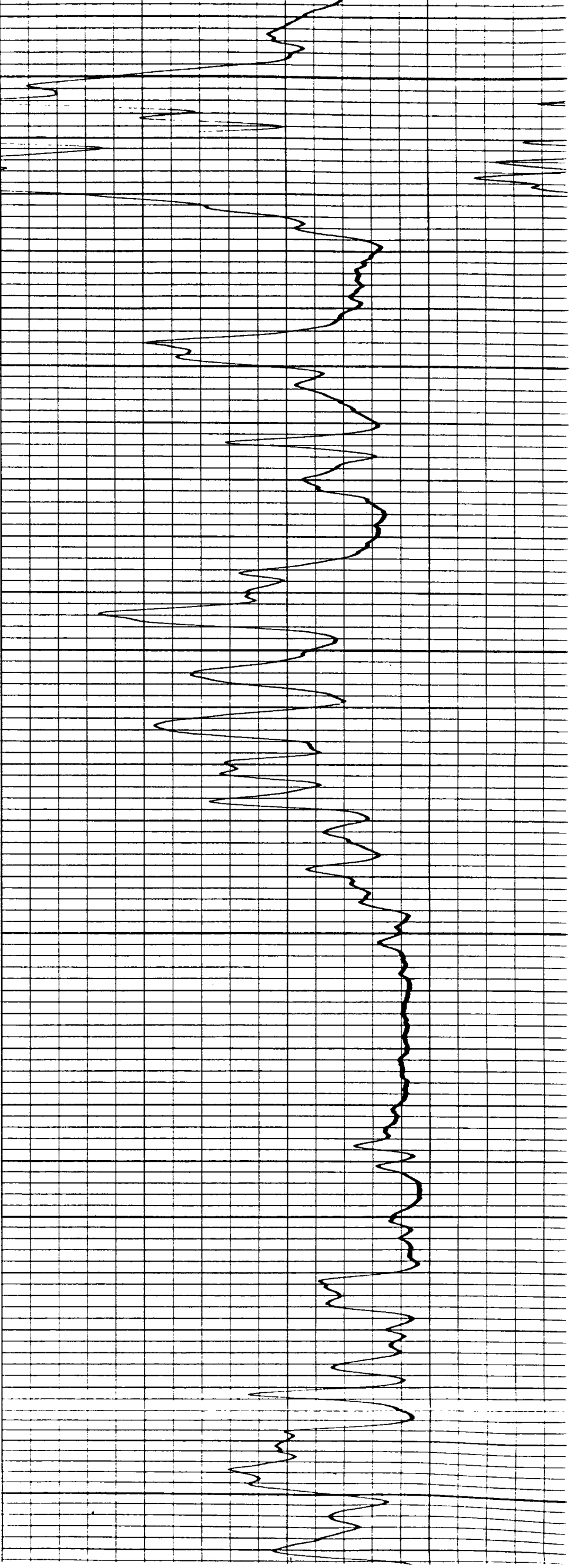
4800

4900

5000

5100

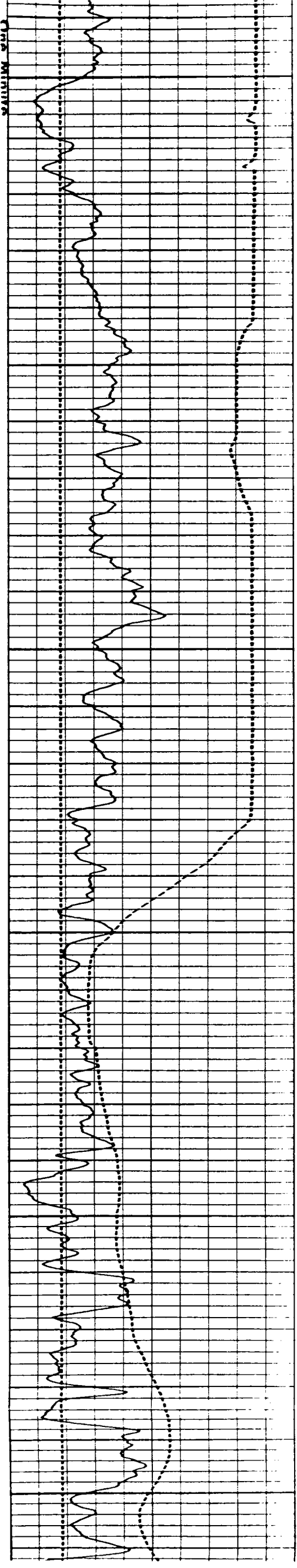




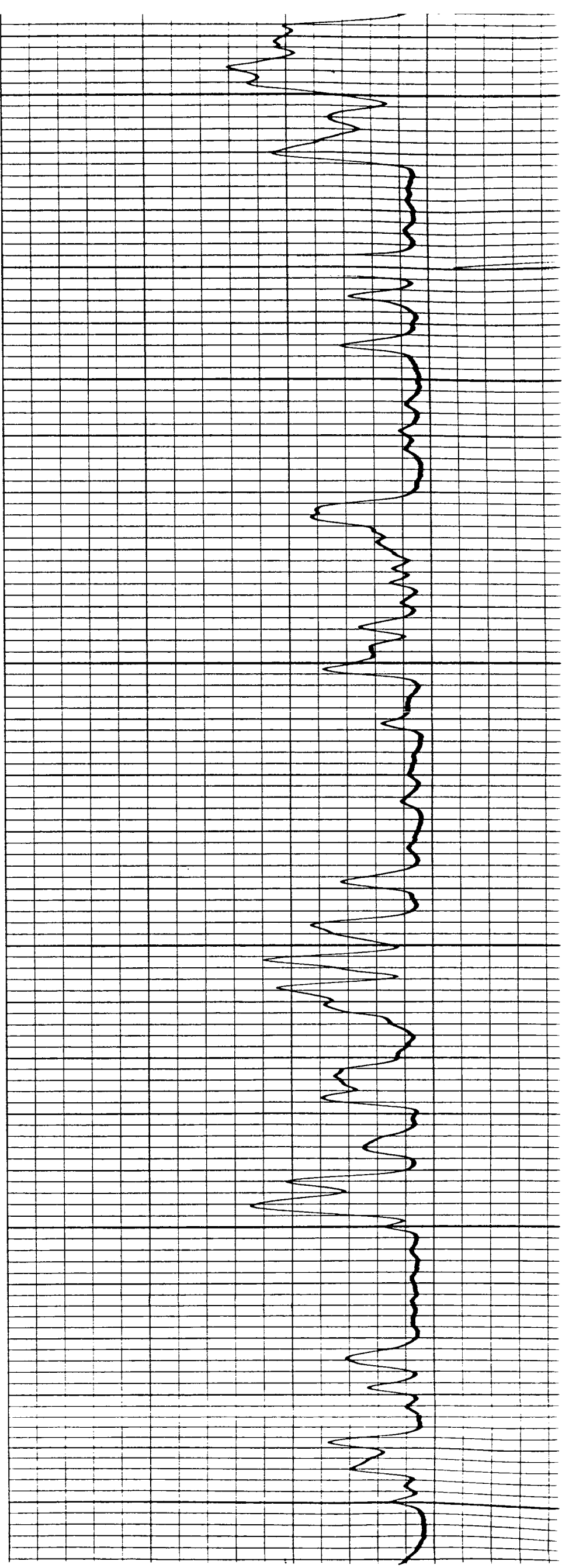
4100

4200

4300



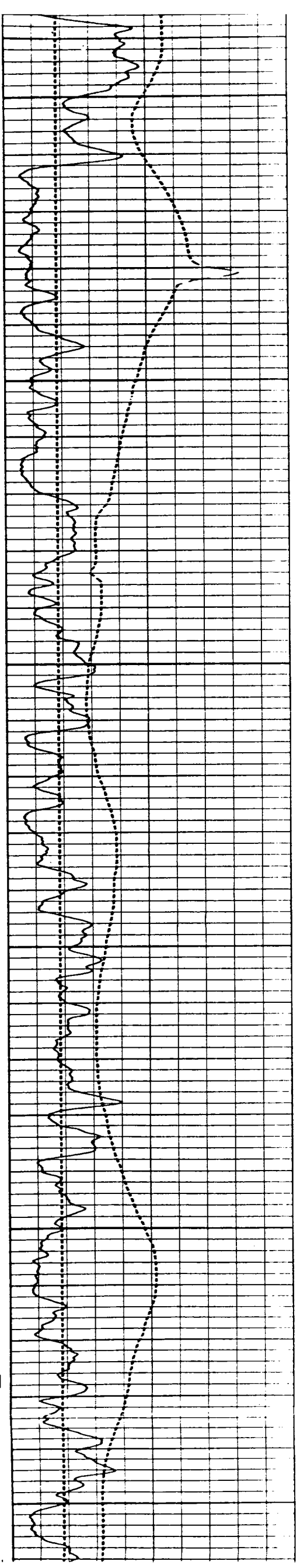
One Minute

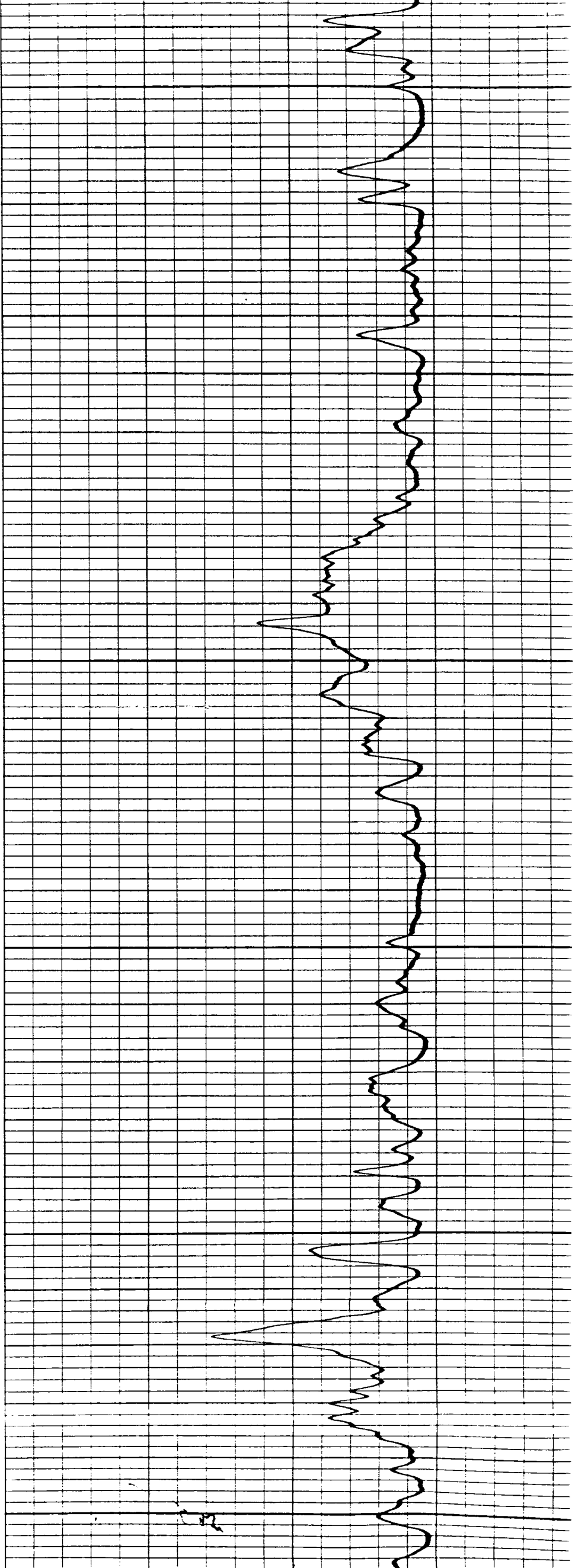


4400

4500

4600



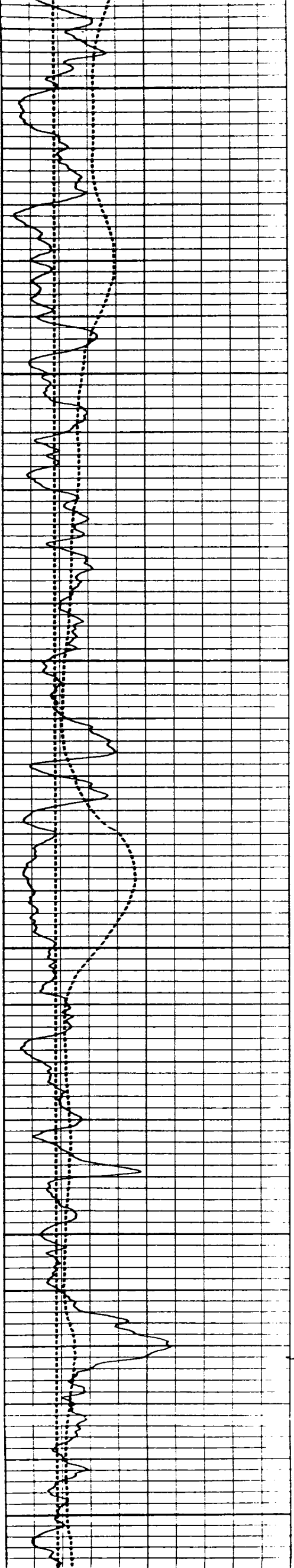


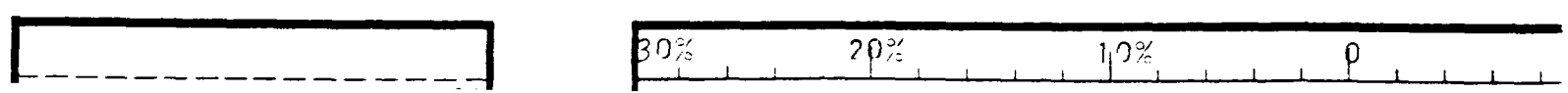
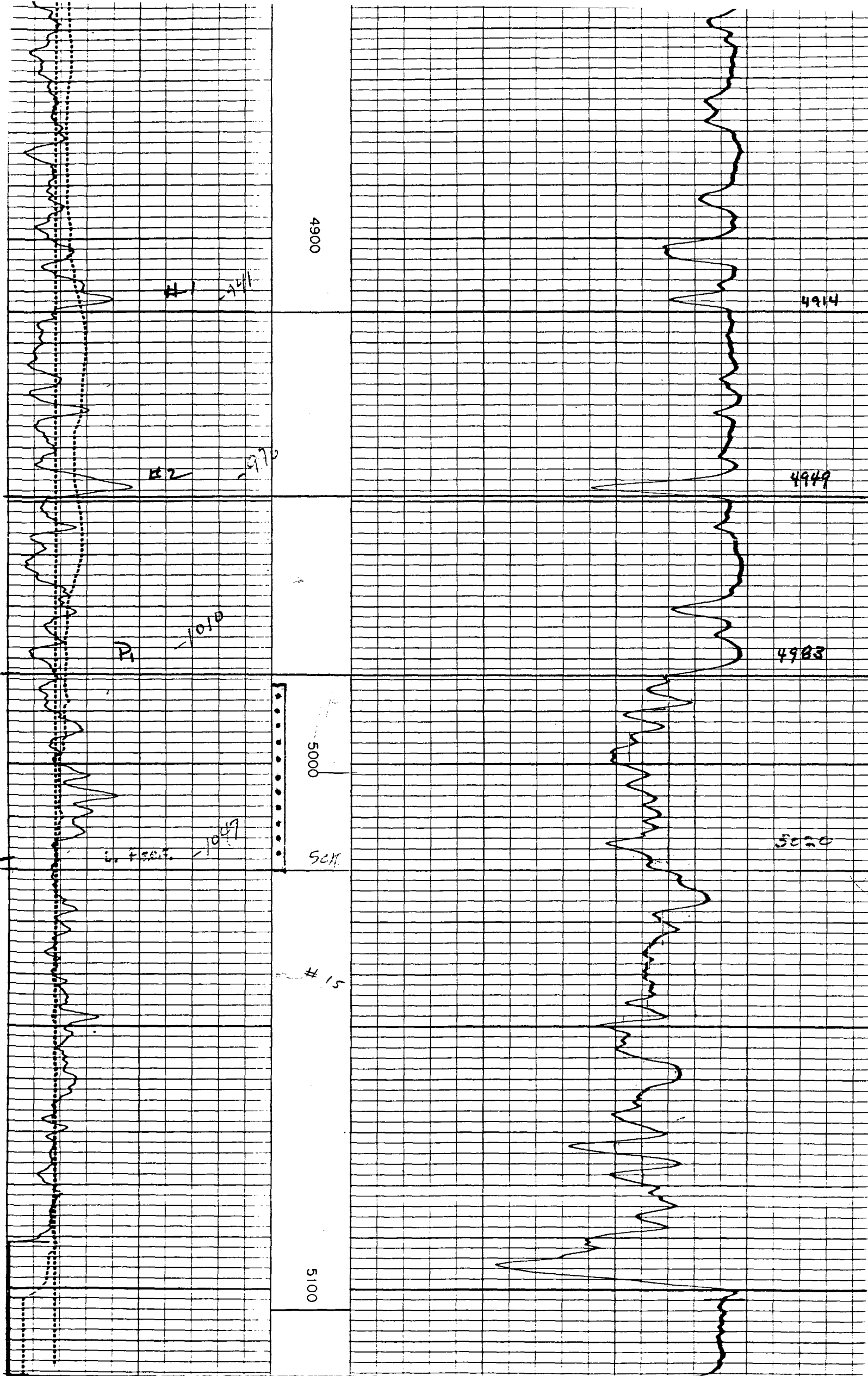
4600

4700

4800

2-2





NEUTRON LOG CALIBRATION BEFORE LOG

60 CYCLE CALIB.
SENS: 1000

60 CYCLE CALIB.
SENS: 272

API UNITS OF CALIB. STD.	725
SENSITIVITY READING	272
MULTIPLIER	X1
ZERO SUPPRESSION	0
TIME CONSTANT	4
MEASURED CHART DIVISIONS	5.5

DresserAtlas
DIVISION OF DRESSER INDUSTRIES, INC.

DEPTH	DOLOMITE POROSITY	RESISTIVITY	WATER SATURATION
4986	5	50 OHMS	52%
4991	7	35 OHMS	49%
4998	8.5	35 OHMS	40%
5004	7	80 OHMS	31%
5008	6	420 OHMS	19%
5015	9	12 OHMS	62%
5019	6.5	25 OHMS	68%
5026	1	120 OHMS	18%
5028.5	5	22 OHMS	81%
5036	6	20 OHMS	11%
5040	6	70 OHMS	41%
5045.5	7	15 OHMS	78%
5050	9	20 OHMS	48%
5054	8	15 OHMS	68%
5059	3	140 OHMS	60%
5064	6	10 OHMS	100%
5067	8	12 OHMS	70%
5073	12	3 OHMS	92%
5091	10	5 OHMS	88%
5095	17	3 OHMS	60%



Geology

FILE NO.

COMPANY OIL DEVELOPMENT CO. OF TEXAS

WELL SANTA FE PACIFIC RR. NO. 15

FIELD WEST SAWYER

COUNTY LEA

STATE NEW MEXICO

LOCATION: 800' FNL & 2121' FEL

Other Services SWN/GR

SEC 34 TWP 9-S RGE 37-E

GROUND LEVEL Elev. 3962

Permanent Datum K. B. 11 Ft. Above Permanent Datum

Log Measured from K. B.

Drilling Measured from K. B.

Elevations: KB 3973 DF 3962

Date	1-23-73			
Run No.	ONE			
Depth—Driller	5100			
Depth—Logger	5102			
Bottom Logged Interval	5096			
Top Logged Interval	4000			
Casing—Driller	8 5/8@426	@	@	@
Casing—Logger	-			
Bit Size	7 7/8"			
Type Fluid in Hole	SALT GEL			
	4% OIL			
Density and Viscosity	10.9 37			
pH and Fluid Loss	9.4 cc			
Source of Sample	CIRCULATED			
Rm @ Meas. Temp.	.065 @58 °F	@	@	@
Rmf @ Meas. Temp.	.06 @58 °F	@	@	@
Rmc @ Meas. Temp.	- @ °F	@	@	@
Source of Rmf and Rmc	MEAS.			
Rm @ BHT	.035 @110 °F	@	@	@
Time Since Circ.	8 1/2 HOURS			
Max. Rec. Temp. Deg. F.	110 °F			
Equip. No. and Location	6028 HOBBS			
Recorded By	MC ATEE			
Witnessed By	MR. LEACH			

FOLD HERE ↓

THIS HEADING AND LOG CONFORMS TO API RECOMMENDED STANDARD PRACTICE RP-34

REMARKS GAMMA RAY DRAFTED FROM SWN/GR.

Equipment Used

Run No. ONE
S. O. No. 35005
Tool No. SEE BELOW
Elec. No. SEE BELOW
Panel No. 3577

Changes in Mud Type or Additional Samples

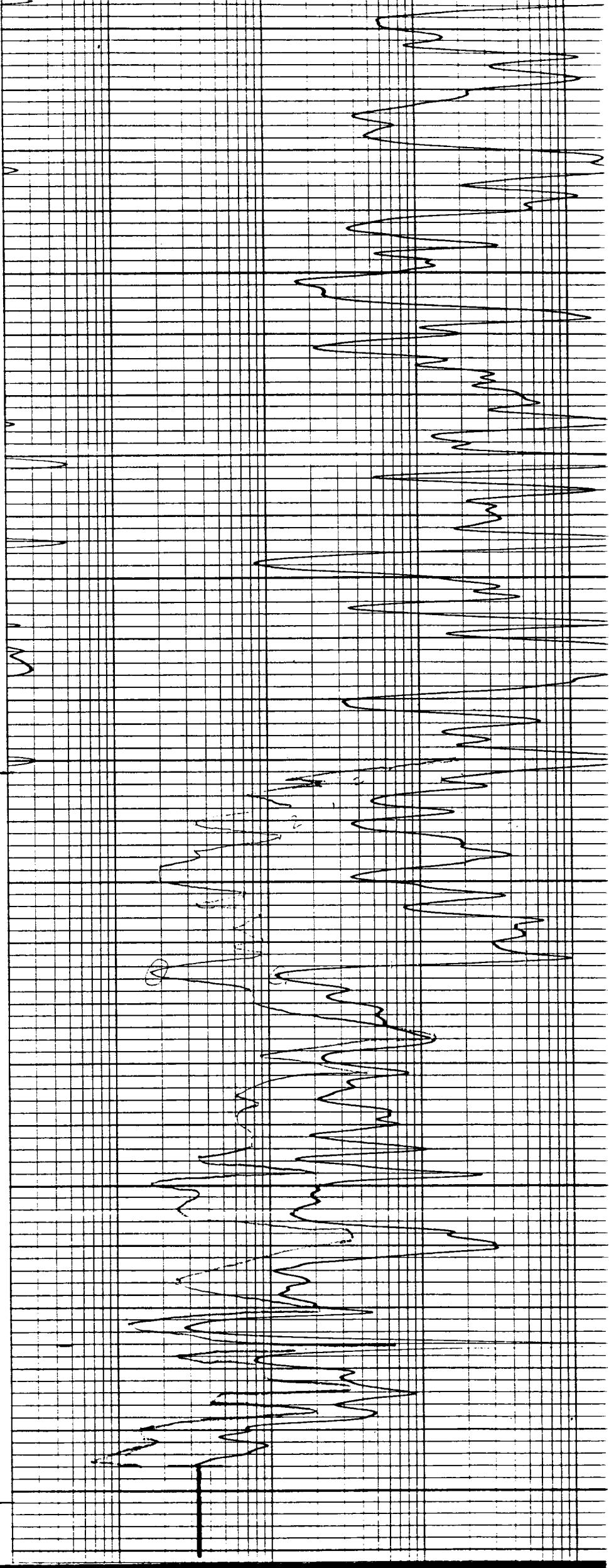
Scale Changes

Date	Sample No.	Type Log	Depth	Scale Up Hole	Scale Down Hole
Depth-Driller					
Type Fluid in Hole					
Dens.	Visc.				
pH	Fluid Loss				
Source of Sample					
Rm @ Meas. Temp.	@ °F	@ °F	Run No.	Tool Type	Pad Type
Rmf @ Meas. Temp.	@ °F	@ °F	ONE	1216-15	Tool Position
Rmc @ Meas. Temp.	@ °F	@ °F			Other
Source Rmf	Rmc				
Rm @ BHT	@ °F	@ °F			
Rmf @ BHT	@ °F	@ °F			
Rmc @ BHT	@ °F	@ °F			

DETECTOR TYPE SCINT.
DETECTOR LENGTH 4"

BEAM WIDTH 6"
GUARD LENGTH 80"

GAMMA RAY Radiation Intensity Increases	DEPTH	RESISTIVITY Ohm-m
10 API/CD API UNITS		2 1.0 10 100 1000
0 API 100 API	2"=100' LR	

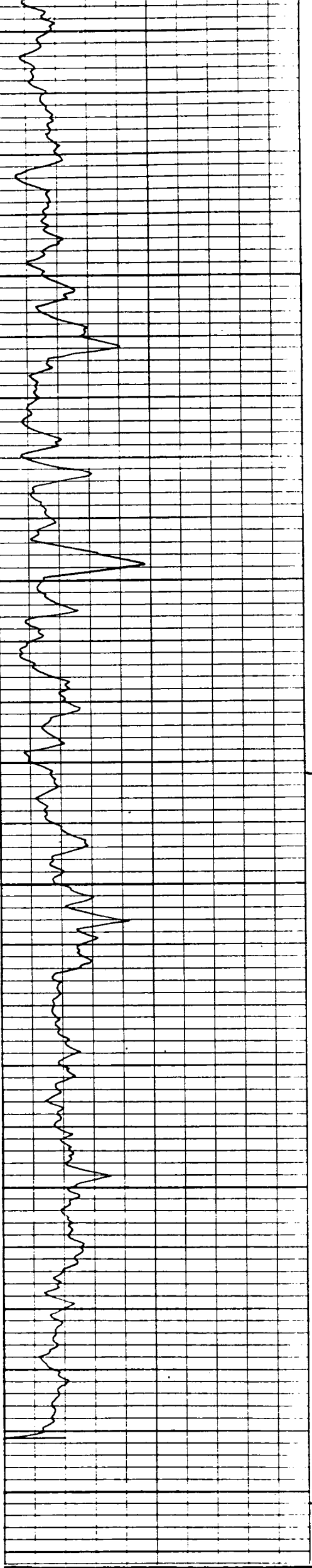


4900

5000

#15

5100



For ctions

report \$1.22 billion in cash was fined \$500,000. t by the Treasury," one remain anonymous told e banks cooperated with e Bank of Boston was s as well. There are other d with the Treasury, and etime soon."

rces told the Times it was nks for similar violations. ed would depend on the ctions each one carried

disclosed the previously arch, Manufacturers said nsactions over four years disclosed 1,659 transac- totaling \$292 million and sactions over five years

orted transactions at that

Charge

a short courtroom con-

1, the judge bound Antonio 0 block of South Dal Paso, e of shoplifting over \$100

y hearing on the charge in aling 30 cartons of ciga- r's super market on May

of the 200 block of West a charge of aggravated e cause ruling by Wrinkle iminary hearing Friday

f pointing a firearm at : Allsup's store, 105 East

NYC ers

passed a concierge she ognize, Mrs. Lawrence ab!" and decried nightly own by the hotel for the nt workers.

wished my lease was up but I own the place," said use owner. Mrs. Lawrence al estate firm has offered ion for the apartment.

wrence said she was in en the strike began but e "to show my support and with the members of Local gest of the nine unions in hotel Trades Council.

half of the total mem- want to thank you," Pitta Lawrence and a crowd of gathered outside the New etic Club just after talks Monday.

Diego

also reported feeling the 5 miles south. Sgt. Monica Munoz said

Army Worker Guilty

KANSAS CITY, Mo. (AP) — A former ammunition plant worker has pleaded guilty to participating in one of two schemes to defraud the Army out of hundreds of thousands of dollars.

James E. Lewis III, former administrative branch manager for the Westinghouse Electric Supply Co., was one of five employees of Remington Arms Co. and Westinghouse indicted last week on charges of conspiracy and defrauding the Army.

Lewis agreed to cooperate with the government months before the indictments were handed up, said Assistant U.S. Attorney Robert Schneider.

He said Lewis, who appeared Monday before U.S. District Judge Howard F. Sachs, would be put on probation, will have to pay no more than \$200 restitution and still faces the possibility of a fine up to \$10,000.

Remington operates the Lake City Ammunition Plant under a contract with the Army and is reimbursed by the Army for its expenses. Westinghouse supplied electrical goods to Remington.

The five men are charged with submitting \$273,000 in bills to Remington for goods that never were delivered or that the defendants kept and used for themselves, prosecutors said. Remington paid the bills and was reimbursed by the Army.

Two of the defendants also have been charged with defrauding the Army of more than \$200,000 by submitting inflated bills for electrical equipment sold to Remington.

Four defendants have been charged with more than 24 counts each of conspiracy, mail fraud and defrauding the Army. Each count carries a maximum penalty of five years in prison and fines up to \$10,000.

EEOC Enters Pay War

WASHINGTON (AP) —

LEGAL NOTICE
May 28, June 4, 11, 18, 1985
IN THE DISTRICT COURT
OF LEA COUNTY
STATE OF NEW MEXICO
FEDERAL)
NATIONAL)
MORTGAGE)
ASSOCIATION)
PLAINTIFF,)
VS.) NO.
MARK A. HULIN) CV
AND) 85-248
DARLA HULIN,)
DEFENDANTS)

NOTICE OF SPECIAL MASTER'S SALE
On May 21, 1985, the District Court of Lea County, New Mexico, entered a Judgment Decree of Foreclosure, Order of Sale, and Appointment of Special Master in the above styled and numbered cause against the above named Defendants in the amount of \$68,216.88, together with interest at the rate of 12.750% per annum from the date of Judgment until the Judgment is paid. Said Judgment foreclosed the Mortgage of Plaintiff, Federal National Mortgage Association, upon the following described property:

SURFACE TITLE ONLY OF LOT Fifteen (15), Block Two (2), of the Bender East Sub-division, to the City of Hobbs, Lea County, New Mexico.

and directed that the Special Master, W.A. McBee, be ordered to sell the above described property at public auction to satisfy the lien of Plaintiff, Federal National Mortgage Association's Mortgage. The total amount, including interest, attorneys' fees, court costs and interest to date of sale is \$68,216.88 and such amount shall be added to the costs of sale.

Notice is hereby given that the above described property will be sold at public auction to the highest bidder, for cash, at the offices of Neal & Neal, 116 North Turner, Hobbs, New Mexico, at the hour of 10:00 A.M. on the 25th day of June, 1985, such sale shall be subject to the approval of the District Court of Lea County, subject to the period of redemption allowed by the Court of one (1) month as provided in the Mortgage for all Defendants.

DATED This 22nd day of May, 1985.
W.A. McBEE
SPECIAL MASTER

LEGAL NOTICE
JUNE 12, 18, 1985
CALL FOR BIDS
8586-10

Sealed bids will be received until opening time, 2:00 p.m., Friday, June 28, 1985, at the Administration Office for the Hobbs Municipal Schools, 1515 East Sanger, Hobbs, New Mexico for Hand Dryers. Mail bids to Hobbs Municipal Schools, P.O. Box 1040, Hobbs, New Mexico, 88240. A complete list of specifications is on file at the above office. The Hobbs Board of Education reserves the right to reject any and all bids and to waive all technicalities.

Hobbs Board
Of Education
By Jack Kernan, M.D.
Attest: Charley R. Smith
Secretary

LEGAL NOTICE
JUNE 11, 18, 1985
CALL FOR BIDS
8586-9

Sealed bids will be received until opening time, 2:00 p.m., Friday, June 28, 1985, at the Administration Office for the Hobbs Municipal Schools, 1515 East Sanger, Hobbs, New Mexico for Football Programs. Mail bids to Hobbs Municipal Schools, P.O. Box 1040, Hobbs, New Mexico, 88240. A complete list of specifications is on file at the above office. The Hobbs Board of Education reserves the right to reject any and all bids and to waive all technicalities.

HOBBS BOARD
OF EDUCATION
President
Attest Dr. Charley R. Smith

LEGAL NOTICE
June 11, 18, 25, 1985
NOTICE is hereby given that on May 13, 1985 Wesley M. Williams, 810 Ponderosa, Hobbs, N.M. 88240 filed application number L-1732-A with the STATE ENGINEER for permit to change purpose of use of 38.38 (consumptive use) acre-feet of shallow ground water per annum diverted from well No. L-1732-A located in the SE¼NE¼SE¼ of Section 3, Township 18 South, Range 38 East, NMPM, by ceasing the diversion of 38.38 acre-feet per annum for sanitary, lawns, and domestic purposes in a trailer park located in the SE¼ of Section 3, Township 18 South, Range 38 East, NMPM, and commencing the diversion of 57.57 acre-feet per annum for the irrigation of 19.19 acres of land described as follows:

SUBDIVISION PT. SE¼; SECTION 3; TOWNSHIP 18-S; RANGE 38-E; ACRES 19.19.

This application is made to revert 38.38 acre-feet per annum of commercial rights back to the irrigation of 19.19 acres of land at 3 acre-feet per acre per annum where they were originally developed.

Any person, firm, association, corporation, the State of New Mexico or the United States of America, deeming that the granting of the above application will impair their water rights, be contrary to conservation of water within the state, or be detrimental to the public welfare of the state, may protest in writing the proposal set forth in said application. The protest shall be set forth all protestant's reasons why the application should not be approved and must be filed, in triplicate, with S.E. Reynolds, State Engineer, P.O. Box 1717, Roswell, New Mexico, within ten (10) days after the date of the last publication of this Notice.

1-PUBLIC NOTICE

IF YOU know the whereabouts of ARACELY S. VENTURA, approximately 15 years old or MIKE RAY VENTURA, JR. approximately 13 years old, whose father, Mike Ray Venture, Sr. died around 1974, please call me collect. Mrs. Cohen, Ruidoso State Bank, 505-257-4043.

MONCOR BANK, N.A., will accept sealed bids on a 1970 Mercedes, model 280 SE, until 6:00 p.m. June 20, 1985. Bids will be publicly opened at that time at Moncor's main office at 200 East Broadway, Hobbs, NM. Those interested in inspecting the automobile may do so at Cappelletto Toyota at 1717 North Grimes, Hobbs, NM. Your bid should be directed to: Moncor Bank, N.A., P.O. Box 70, 200 East Broadway, Hobbs, NM 88240. Attn: Pat Wise, Sr. VP. Moncor Bank reserves the right to refuse any and all bids. The vehicle will be sold as is, and Moncor Bank expresses no warranty as to the condition of the vehicle.

SANTA FE ENERGY COMPANY
500 West Illinois, Midland, TX 79701, is applying to convert its SFPRR No. 15 well to salt water disposal into the San Andres formation at a depth of approximately 5,000 feet. SFPRR No. 15 is in the West Sawyer (San Andres) Field located in Unit B, Section 34, T-9S, R-37E, NMPM, Lea County, New Mexico.

4-LOST & FOUND

PARTY who called K & K Quick Shop for our number please call again if you have "Muffin". \$100 reward offer ends 6-19-85.

CALL
392-8868
After 5 p.m.
or

8-JOB SEEKERS

9-WORK WANTED

ALL TYPES yard work. Call 392-8854.

Babysitting for working mothers. Openings for 2 children, Monday - Friday, 7-5 p.m. State Licensed Home Day Care. Lunch and snack provided. Call 393-4300.

CHILD CARE on North end of town, dependable and reasonable. Full or part-time. Call 392-7005.

CUT DOWN trees/stumps, trim cactus plants, yard work, clean lots, hauling, house painting, cement work. Call 393-1367.

DEPENDABLE MOTHER will babysit 8 - 5 p.m. weekdays. Fenced yard, nice play area, across the street from Coronado School. Call 392-5595.

DO yard work, prune trees, remove dead stumps, clean alleys. Also, do light hauling. Call 392-5043.

KIM'S UPHOLSTERY, 24 hour service, 636 Kara, North Grimes, 392-3493. Truck, car, pickup, bus, couch seat.

MOW and EDGE lawns. Also, water lawns. Reasonable. Call Joan Coulter or Dale Compton, 397-3287 anytime.

NEWT'S small engine repair. 308 West Temple, 393-5355. Pickup and delivery. Will buy junk lawnmowers.

PAINTING - Exterior or interior. Call the experts. Smiley's Painting, 22 years experience, free estimates. 394-2131 or 394-2200 after 5 p.m.

TUTORING, grades 1 - 6 by certified teacher. 392-2433.

YARD WORK WANTED

Hobbs Association for Retarded Citizens. Quality work, reasonable rates, references available.

393-2658

WELDING AFTER 5 P.M. and Saturday and Sunday. 700 Woods Drive. Call Luther Britton, 392-8365.

WILL BABYSIT

6 weeks to 5 years drop-ins welcome, 393-8588.

WILL HAUL dirt and calichi. Call 392-8629.

YARD WORK and light hauling. Call 393-3505.

10-HELP WANTED

ALAMOGORDO: Dental hygienist, full-time. Split time between two dentists with separate practices, occupying one building. Serious inquiries only. Call Goldie, 1-437-4903 or Peggy, 1-437-2884.

ASK ME ABOUT AVON - To buy or sell. Lou - 397-7188.

BOOKKEEPER. Full-charge bookkeeper, \$12,000 - \$16,000 year, small office, hospitalization insurance, holidays, sick leave and vacation pay. Experience necessary. Non-smokers only. Send resume in confidence to: P.O. Box 5132, Hobbs, NM 88241.

CONSTRUCTION JOBS AVAILABLE
Earn up to \$1,000. Now hiring for all phasis of construction, including heavy equipment, carpentry, welding, helpers, etc. Will train.
Call American Services
817-861-9348
(Fee)

DENTAL HYGIENIST - Full-time position available for Periodontal practice. Excellent salary, benefits, environment and working hours. Please contact: Dr. Glenn Matlage, 100 South Michigan, Roswell, NM 88201 or (505) 622-2900.

DISCREET, dependable, effective, search and recruitment, locally and out of state. For your employment needs,

TICE
1985
it on the 17 day of June, 1985,
Hobbs adopted an Ordinance

OBBS
NO. 756
ECTION 5-5, RATES AND
HE HOBBS CITY CODE,
NSPORTATION OF PA-

ERNING BODY OF THE CI-
AT:
s Municipal Code, 1975 Com-
ows:

balance service of the city,
ember of the immediate fami-
nergencies then existing, shall
as specified below:
of patients or corpses:
single patient:

.....\$50.00
patient
.....2.50
er 50,

ent miles while patient is be-

e are requested, but not used,
1,000 plus fifty cents (50 cents)
origin will apply.

charges when multiple pa-
ted simultaneously to same
ges for a single patient as per
above listed.

nt of this charge for each ad-

(b) directly above.

charges equally among all

e point at which the patient or
delivered or accepted, and the

ing charges for multiple pa-
simultaneously to different

rges for a single patient as per

) above listed,, to ultimate

ent of this charge for each ad-

(b) directly above.

charges equally among all

e point at which the patient or
delivered or accepted, and the

orpses:

.....\$25.00
miles,

.....2.00

stand-by charges:

if the request of the patient or

orted under this Code, one-half

each patient, thence, each fif-

il be at the rate of five dollars

sted to stand-by for hazardous

y dollars (\$30.00) for the first

mbulance returns to its assign-

minutes or fraction thereof will

seventy-five cents (\$3.75).

ed upon to make a service run

additional applicable charges

vice charge shall cease at the

ational institutions shall be ex-

the patient miles traveled, the

all be at the rate of sixty cents

determined in the following

duct same from the total miles

es. (Total miles are vehicle

one time in connection with any

as for deadhead mileage are

arge shall be pro-rated among

outlined in subsections (a) (2)

essary in transporting a patient

ge of twelve dollars (\$12.00)

(in-town): When an ambulance

transport to nursing homes, pa-

tor's office, airports or other

anning area of Hobbs, the rate

y-five dollars (\$65.00), with no

an ambulance is requested for

ining area, mileage charge will

n the final destination.

ny trip will be calculated from

any fraction of the mile in ex-

creased to the next whole mile.

ESSED AND ADOPTED this 17

ive July 1, 1985.

LEGAL NOTICE
June 13, 20, 27,
July 4, 1985
FIFTH JUDICIAL DISTRICT
COURT
COUNTY OF LEA
STATE OF NEW MEXICO
THE FIRST
NATIONAL
BANK IN
ALBUQUERQUE
Plaintiff,) NO. CV-
vs.) 85-227
RAMON
DUARTE,
ENEDINA
DUARTE.
JOHNSON
MOTOR
COMPANY,
INC., and
CENTRAL
ADJUSTMENT
BUREAU,
INC.,
Defendants.)

NOTICE OF SALE
NOTICE IS HEREBY
GIVEN that the undersigned
Special Master will on Friday,
the 12th day of July, 1985, at
10:00 a.m. at the Lea County
Courthouse, Lovington, New
Mexico, sell and convey, sub-
ject only to the one (1) month
period of redemption following
the sale of the real property as
provided in the Mortgage to the
highest bidder for cash or
certified funds, all the right,
title and interest of the
above-named Defendants, Ramon
Duarte and Enedina
Duarte, his wife, in and to the
following real estate located in
Hobbs, County of Lea, New
Mexico:

Lots Eight (8) and Nine
(9), Block Forty-Four
(44), Original Town of
Hobbs, now a part of the
City of Hobbs, Lea
County, New Mexico.

Said sale will be made
pursuant to the Judgment,
Judgment by Default, Decree
of Foreclosure, order of Sale
and Appointment of Special
Master entered on the 13th day
of May, 1985, in the above-
entitled and numbered cause,
which was a suit to foreclose a
Note and Mortgage held by the
above-named Plaintiff and
wherein the Plaintiff was ad-
judged to have a lien against
the above-described real estate
in the sum of \$5,728.28 plus
interest from January 7, 1985,
accruing at the rate of 13.69%
per annum on said sum until
the real property is sold, costs
of sale, including a reasonable
Special Master's fee, and at-
torney fees in the amount of
\$600.00, plus those additional
amounts, if any, which the
Plaintiff may be required to
pay prior to termination of this
action.

Dated: June 5, 1985.
Scotty A. Holloman, ESQ
Special Master

SANTA FE
ENERGY COMPANY
500 West Illinois, Midland, TX
79701, is applying to convert its
SFPRR No. 15 well to salt
water disposal into the San
Andres formation at a depth of
approximately 5,000 feet.
SFPRR No. 15 is in the West
Sawyer (San Andres) Field
located in Unit B, Section 34,
T-9S, R-37E, NMPM, Lea
County, New Mexico.

4-LOST & FOUND

REWARD \$50.00. Red Pit Bull,
female, has been spayed, has
cowlick on left front shoulder,
vicinity of Comanche. Call
397-6402 or 392-6843.

REWARD for black and white
Boston Terrier puppy lost in
the area of Park and Coleman.
Please call 393-3660 or 393-0695.

7-PERSONAL

A WEIGHT LOSS and health
program. 100% guaranteed!
Look and feel great! Summers
here. 397-6280.

ABORTION. Early appoint-
ments available for abortion
through 12 weeks. Albuquer-
que, 505-242-7512.

COMPLETE SKIN CARE.
Mary Kay Cosmetics. Call
Mabel Reynolds for Com-
plimentary facial, 393-6262.

IS DRUGS A PROBLEM?

LEGAL NOTICE
JUNE 20, 27, 1985
PUBLIC NOTICE OF SALE
TO WHOM IT MAY
CONCERN:
You are herewith notified that
WESTERN AUTO ASSOCIATE
STORE will sell, for cash, to the
highest bidder, the following
listed personal property:
Sounddesign Stereo
Headphones
2-Fisher Speakers
Sounddesign Stereo
3-Pc. Sectional
Coffee Table
End Table
Headboard
Mattress & Box Spring
Dresser w/Mirror
Nightstand
Whirlpool Washer #40106987
G.E. Microwave #AR986840M
RCA TV #GK689TR #18630871
Repo Citation Refrigerator
#031463114
Sounddesign Stereo
Vacuum
Midland TV #2379309
Sofa
Chair
Cocktail Table
Washer #J3212663
Xmas Tree
Tree Decorations
3-Stockings
4000 VCR #14432260
VCR
Camera
3-Pr. Jeans
3-Shirts
Zenith TV #29273369061
Norge Washer #JU838205
Refrigerator #HL218558
Dryer #LH306726G
Caloric Range #4566387UD
Washer #FM126878G
Keller Dining Room Table/4
Chairs
Keller China Hutch
Connector
Lamps (2)
Loveseat
Sofa
2-End Tables
Coffee Table
Recliner
Bunkbed
Mattress
Coffee Table
End Table
Starbird Go-Cart
Chair
Sofa
Loveseat
2-Ash Trays
Pool
Filter
Ladder
Quazar TV #BB10681407

The sale will occur at 118 E.
Dunnam (Western Auto -
Building) on the 3rd day of Ju-
ly, 1985, at the hour of 10:00 a.m.
The merchandise may be view-
ed at 9:00 a.m. at the place of
sale. Such merchandise shall be
purchased as is with no warran-
ties and specifically without
warranty of merchantability.
Western Auto Associate Store
reserves the right to bid at said
sale.

DEPENDABLE MOTHER will
babysit 8 - 5 p.m. weekdays.
Fenced yard, nice play area,
across the street from Cor-
onado School. Call 392-5595.

DO yard work, prune trees,
remove dead stumps, clean
alleys. Also, do light hauling.
Call 392-5043.

HAVE WORK done by Hobbs
Jaycees for tax deductible do-
nations. Call 392-2859, Monday -
Thursday, 1 - 4 p.m.

KIM'S UPHOLSTERY, 24 hour
service, 636 Kara, North
Grimes, 392-3493. Truck, car,
pickup, bus, couch seat.

MOW and EDGE lawns. Also,
water lawns. Reasonable. Call
Joan Coulter or Dale Compton,
397-3287 anytime.

NEWT'S small engine repair.
308 West Temple, 393-5355.
Pickup and delivery. Will buy
junk lawnmowers.

PAINTING - Exterior or inter-
ior. Call the experts. Smiley's
Painting, 22 years experience,
free estimates. 394-2131 or
394-2200 after 5 p.m.

WELDING AFTER 5 P.M. and
Saturday and Sunday. 700
Woods Drive. Call Luther
Britton, 392-8365.

WILL BABYSIT
6 weeks to 5 years, drop ins
welcome. 393-8588.

Will do yard work and odd jobs

ASK ME ABOUT AVON - To
buy or sell. Lou - 397-7188.

BABYSITTER needed to come
into my home, long term
commitment and references
required. Must be available
immediately. Call 392-4162.

CONSTRUCTION JOBS
AVAILABLE
Earn up to \$1,000. Now hiring
for all phasis of construction,
including heavy equipment,
carpentry, welding, helpers,
etc. Will train.
Call American Services
817-861-9348
(Fee)

DENTAL HYGIENIST - Full-
time position available for
Periodontal practice.
Excellent salary, benefits,
environment and working
hours. Please contact: Dr.
Glenn Matilage, 100 South
Michigan, Roswell, NM 88201
or (505) 622-2900.

DRILL COLLAR Inspector,
salary depends on experience.
Call for information, 806-669-
6114.

EMPLOYMENT
OPPORTUNITY
State of New Mexico
Juvenile Probation Officer II.
Requirements: Minimum
education - BA or BS in related
field. Beginning salary: \$1279
to \$1408 per month. Applica-
tions will be accepted by: Chief
Juvenile Probation Officer,
Lea County Courthouse, Lov-
ington, NM and Juvenile Pro-
bation Office, 803 North Linam,
Hobbs, NM.
Applications will be accepted
through June 26, 1985.
We are an Equal Opportunity
Employer.

FAMILY OWNED
Manufacturing Co. needs reli-
able person to contact custom-
ers around Hobbs. We train.
Write K.G. Mason, Pres.,
Mason Manufacturing Co., 1251
First Avenue, Chippewa Falls,
WI 54774.

GIBB'S GOODIES now taking
applications for sandwich cook.
Apply in person, 121 North
Dalmont. No phone calls.

LOCAL CPA firm seeks ac-
countants, CPA preferred, 2 to
5 years experience with
partnership potential. Send
resume to: Box 368, Hobbs,
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NEED EXTRA MONEY?
Do this in your spare time,
make big bucks in your own
area, 18 years old and older.
Call Mr. Richardson,
1-505-378-4516.

NEED upholsterer with at
least 3 years experience. Call
393-3987 between 8 - 5 p.m.

NEEDED: Dependable female
with references to watch 8 year
old girl, housekeeping, running
errands, miscellaneous work,
from my home, Monday - Fri-
day, 8 - 5 p.m. Will provide car
to right person with good driv-
ing record, \$60 per week to
start. 393-9847.

NEEDED: Experienced oil
field rig up drivers and
swampers, at least 2 years
experience required, past
employers and driving record
will be checked, we allow a
maximum of 3 moving viola-
tions in a 3 year period, would
require a move to Monahans,
Texas. Good pay and benefits.
Only those meeting these quali-
fications need apply. Call
1-800-351-1573.

POSITIONS open for two
journeyman glaziers. Please
call Ron Trollinger at 505-763-
4476, collect. Westbrook Glass,
Inc., Clovis, New Mexico.

RANCH HANDS
Several openings in 5 state
area. Cattle or horse experi-
ence helpful. Management
openings available.

EXCELLENT PAY!!
AMERICAN SERVICES

817 861 9348
Small Fee

TELEPHONE SALES
EVENINGS. Experience
helpful but not necessary. Call
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WANTED: Full or part-time
kitchen help, also delivery
drivers. Must have own trans-
portation and proof of insur-
ance and must be 18 years old.
Apply in person, anytime,
Pizza Mill and Sub Factory,
1040 East Bender.

WILL TRAIN woman with de-
corating flair for com-
mercial/residential work.
Above average income, full or
part-time. Call 393-7680, Mon-
day - Friday, 9 - 5 p.m.

WORKERS NEEDED for
potato harvest and grading
crew. Women welcome. No ex-
perience necessary. Call
806-732-2611.

13-INSTRUCTION

PIANO INSTRUCTION

•College Educated
•Reasonable Rates
•All Ages/Levels
•All Types Music
•Your Home or Mine
393-2933

16-LOANS-INVESTMENT

CASH FLOW Problem? We
discount invoices. N.M. Resi-
dents only. Call 397-6122, 502
East Marland.

WILL BUY YOUR INVOICES.
Call Donah at GMA Inc., 392-
4091.

19-BUSINESS OPPORTUNITY

ALLIED SERVICE CENTER

National chain is looking for a
bondable person to own an
Allied agency that offers UPS,
WESTERN UNION, EMERY
AND MONEY ORDER
SERVICES in this area, \$33,900
required. Call 1-800-237-8400,
ext. 25.

"BUSINESS MAN" OPEN STEEL BUILDING

Dealership high potential
Profits available part-time
or full-time in your area.
Call
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Ext. 2407

FREE Mary Kay Facial.
Achieve professional look with
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techniques. Joan, 392-6478.

LADIE'S WEAR. Good client-
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Priced to sell. Lu Amerson,
392-3952 or 392-6725. VR Busi-
ness Brokers.

OIL WELL transport service.
Priced right, terms. Will pay
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392-3952 or 392-6725. VR Busi-
ness Brokers.

OLD ESTABLISHED retail
business. Quality merchandise,
priced to sell. Lu Amerson,
392-3952 or 392-6725. VR Busi-
ness Brokers.

RENT THE NICEST snow cone
stand in town for the rest of the
summer. Very reasonable rent
and fully equipped. Call Mike's
Plumbing Company, 393-1041,
ask for Bonnie.

WELL Established business
for sale. Franchises selling all
over the country. Good income.
Call Mike, 393-1404 after 6 p.m.

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ALL STATE FENCE COMP-
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Rototilling, pruning, tree
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Whirlpool and Kenmore. Sikes
Appliance Mart, 397-3533.

BABYSITTING in my home,
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supervision. 392-4492.

BILL'S LAWNMOWER and
Engine repair service. New
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393-9057. Repair all type of
small engines. Buy used and
sell new parts.