Tenneco Oil
Exploration and Production
A Tenneco Company

Southwestern Division

6800 Park Ten Blvd. • Suite 200 North
San Antonio, Texas 78213
(512) 734-8161

December 6, 1982

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

Case 7766

Attn: Mr. Joe O. Ramey
Division Director
State Petrolem Engineer

Re: Application for the
Conversion of Jones Federal
No. 1 to a Saltwater Disposal
Well

Dear Sir:

In accordance with Rule 701 B and C, Tenneco hereby requests a permit to inject saltwater into the above referenced well.

We have attached form C-108 with all pertinent data, maps, water analysis, and schematics. The saltwater from this well will come from the Jones Federal, Jones Federal B, and Jones Federal C leases.

If any further information is necessary, please contact Ulises Zamora at (512) 734-8161, extension 306.

Sincerely,

TENNECO OIL COMPANY

J. G. Strother
Division Production Manager

JGS/DUZ/dt/0272B
Attachments
Certified Mail

THIS WILL REQUIRE A HEARING

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

FORM C-108
Revised 7-1-81

OIL CONSERVATION DIVISION
DEC 10 1982

Case 7766

APPLICATION FOR AUTHORIZATION TO INJECT

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

II. Operator: Tenneco Oil Company

Address: 6800 Park Ten Blvd. Suite 200 North, San Antonio, Texas 78213

Contact party: Ulises Zamora Phone: (512) 734-8161, Ext. 306

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. None

* 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: Ulises Zamora Title Production Engineer

Signature: Ulises Zamora Date: December 6, 1982

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

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division district office.

III. WELL DATA

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

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

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

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

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

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

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

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

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

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

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

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

XIV. PROOF OF NOTICE

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

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

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

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

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

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

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

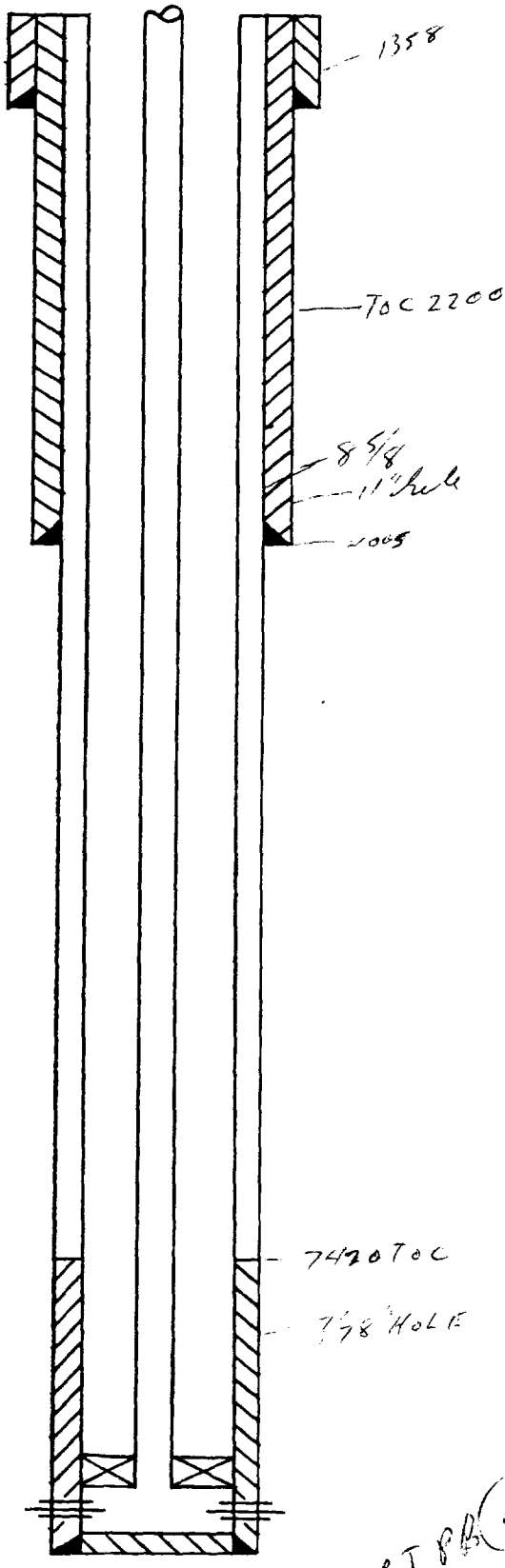
NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

III. Well Data

A.

TENNECO OIL COMPANY
JONES FEDERAL NO. 1
WELL DATA SCHEMATIC

Location: Unit K, 1650' FSL, 1650' FWL, Sec. 23, T19S, R31E, Eddy County New Mexico



13 3/8", 48#, casing set at 514', 500 sxs cement, 17 1/4" hole (cement circulated to surface)

8 5/8", 32# & 24#, casing set at 4005', 2150 sxs cement, 11" hole (top of cement at 2200' by temperature survey) a her is Temp Survey

2 3/8" N-80 8rd EUE tubing (Internally plastic coated) set at 11,042'

5 1/2", 17# & 20#, casing set at 12,785', 900 sxs cement, 7 7/8" hole (top of cement at 7420' by cement bond log)

5 1/2" Baker "Lok-Set" packer set at 11,042'.

Wolfcamp
10,600

Lusk (Strawn)
11,174'-82'
11,186'-94'
11,212'-19'
11,232'-36'

CIBP @ 12,340

Morrow - T 12,240

PBTD 11,252'
TD 12,853'

VI.

		Barton Federal No. 2	Jones B Federal No. 4
A.	Well Type	Oil	Oil (Dry Hole)
B.	Construction		
	1. 13 3/8" csg set @ -	708'	690'
	Cement top at -	surface	surface
	2. 8 5/8" csg set at -	3964'	3213'
	Cement top at -	2000'	2000'
	3. 4 1/2" production csg set at -	11377'	none set
	Cement top at -	9620'	none
	4. Open perforations	11312'-11322'	none
	5. Squeezed perforations	none	none
C.	Date Drilled	2/1/65	8/21/65
D.	Location	660' FSL, 660' FEL T19S, R31E, Sec. 22 Eddy County, N. M.	660' FNL 990' FWL T19S, R31E, Sec. 26 Eddy County, N. M.
E.	Depth	11378'	11539'
F.	Record of Completion	3/19/65	9/22/65

G. See Attachment for completion reports, plugging reports, and schematics of plugged wells on Barton Federal No. 2 and Jones B Federal No. 4.

VII.

A.

1. Proposed average injection rate - 450 BPD
2. Maximum injection rate - 600 BPD
3. Anticipated daily injection volume (bbls):

   a. Minimum - 400
   b. Maximum - 600

B. System is Open

C.

1. Average injection pressure - 1300 psi
2. Maximum injection pressure - 2600 psi

III.

A. Well Data

1. Jones Federal No. 1 - Unit K, 1650' FSL, 1650' FWL, Sec. 23, T19S, R31E, Eddy County, New Mexico.

2. Casing - a. 13 3/8", 48#, casing set at 514', 500 sxs cement, 17 1/4" hole (cement circulated to sentence).

b. 8 5/8", 32#, 24#, casing set at 4,005', 2150 sxs cement, 11" hole (top of cement at 2,200' by temperature survey).

c. 5 1/2", 17# & 20#, casing set at 12,785', 900 sxs cement, 7 7/8" hole (top of cement at 7,420' by cement bond log).

3. Tubing - 2 3/8" N-80 8rd EUE tubing (internally plastic coated) set at 11,042'.

4. Packer - 5 1/2" Baker "Lok-Set" packer set at 11,042'.

B.

1.

a. Injection formation - Strawn

b. Field - Lusk

2. Injection interval - 11,174'-236' (perforated).

3. Original purpose of well - Oil well.

4. Other perforated intervals

a. 12,679-89', 2,510-28', 12,422-34'

1. cast iron bridge plug was set at 12,365'.

b. 11,484'-507', 11,466'-470', 11,368'-76', 11,357'-64', 11,308'-28', 11,292-97'.

1. Baker K CI cement retainer was set at 11,273'. Squeezed below retainer w/50 sxs of cement.

5.

a. Depth of top of next higher oil or gas zone in the area of the well - 10440. Formation

b. Depth of top of next lower oil or gas zone in the area of the well - 12240.

V. Attached

0250B

XII.

December 6, 1982

RE: CONVERSION OF JONES FEDERAL #1 TO SALTWATER DISPOSAL WELL

I have examined available geological data, including well logs, and have not found any faulting from the Strawn to surface in the area of the subject well. The proposed perforations at 11,174 - 11,236 should be of no hazard to the aquifers which are no deeper than 900 feet in this area.

Ladell Collier

Ladell Collier
Sr. Geological Engineer

LC/dt/0277B

XIII.

P235328946

RECEIPT FOR CERTIFIED MAIL

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

SENT TO
Coquina Oil Corp.
STREET AND NO.
PO Drawer 2960
P.O., STATE AND ZIP CODE
Midland, Tex. 79702

POSTAGE	$ 1.05
CERTIFIED FEE	75 ¢
SPECIAL DELIVERY	¢
RESTRICTED DELIVERY	¢
SHOW TO WHOM AND DATE DELIVERED	70 ¢
SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	¢
SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	¢
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	¢
TOTAL POSTAGE AND FEES	$ 2.50
POSTMARK OR DATE	

CONSULT POSTMASTER FOR FEES
OPTIONAL SERVICES
RETURN RECEIPT SERVICE

PS Form 3800, Apr. 1976

BEACON HILL STA. SAN ANTONIO, TEX. DEC 7 1982

P235328962

RECEIPT FOR CERTIFIED MAIL

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

SENT TO
R. H. Bates
STREET AND NO.
1002 N. Shore Dr.
P.O., STATE AND ZIP CODE
Carlsbad, N.M. 88220

POSTAGE	$ 1.05
CERTIFIED FEE	75 ¢
SPECIAL DELIVERY	¢
RESTRICTED DELIVERY	¢
SHOW TO WHOM AND DATE DELIVERED	70 ¢
SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	¢
SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	¢
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	¢
TOTAL POSTAGE AND FEES	$ 2.50
POSTMARK OR DATE	

CONSULT POSTMASTER FOR FEES
OPTIONAL SERVICES
RETURN RECEIPT SERVICE

PS Form 3800, Apr. 1976

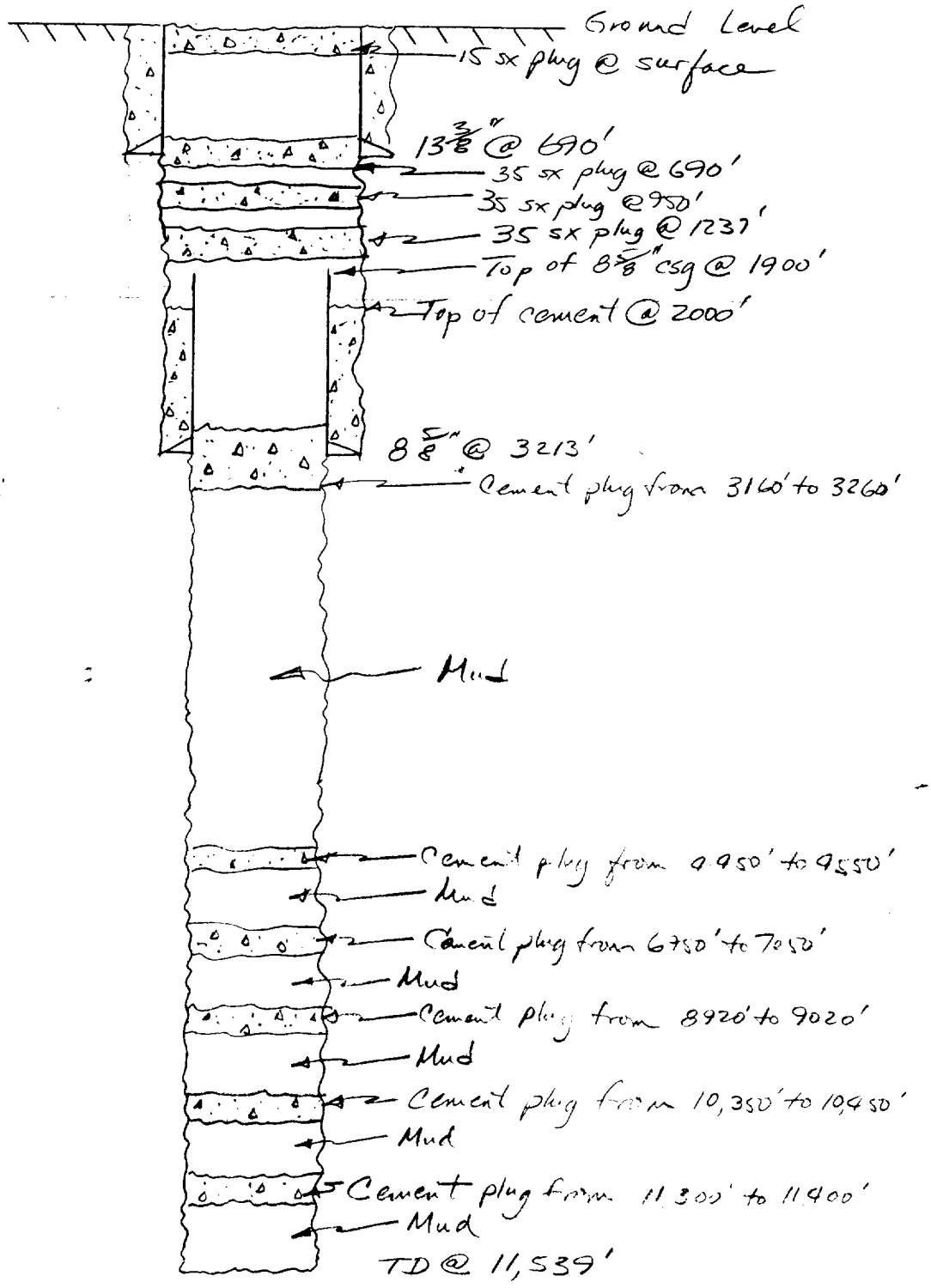
BEACON HILL STA. SAN ANTONIO, TEX. DEC 7 1982

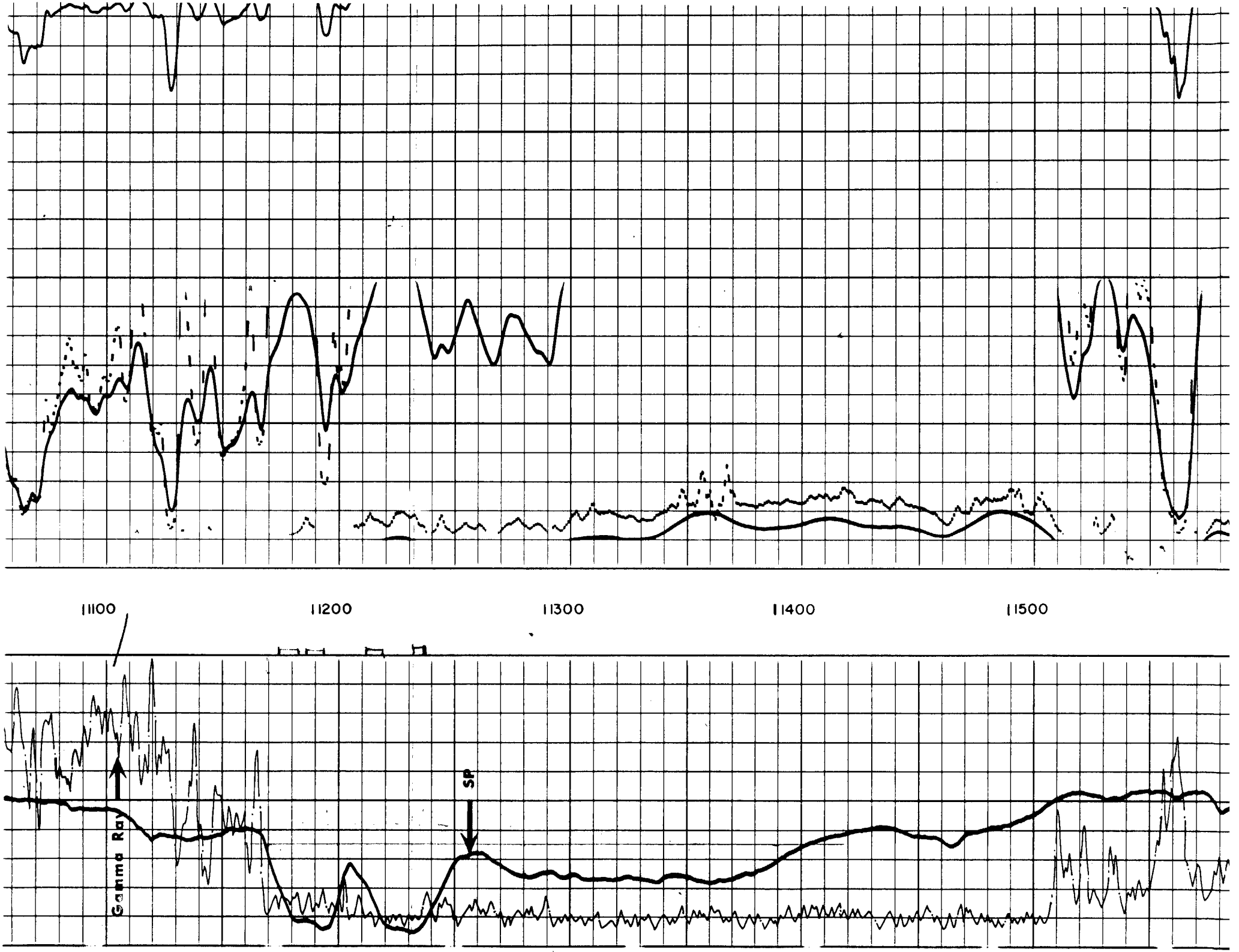
VI. G

Jones "B" Federal #4
Unit D, Sec 26, T19S, R31E
LUSK STRAWN FIELD
EDDY COUNTY, NEW MEXICO
(Well Plugged & Abandoned in 1965)

DEPT.

DATE




11100
11200
11300
11400
11500
Gamma Ray
SP

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.: NM 0107697

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER Dry

OIL CONSERVATION DIVISION
SEP 23 '65

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: Tenneco Oil Company

DEC 10 1982

8. FARM OR LEASE NAME: Jones "B" Federal

3. ADDRESS OF OPERATOR: Box 1031, Midland, Texas

RECEIVED

9. WELL NO.: 4

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface

660' FNL & 990' FWL of Section 26

10. FIELD AND POOL, OR WILDCAT: ~~Undesignated~~ Figure Flower

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 26, T-19-S, R-31-E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 3518 GL

12. COUNTY OR PARISH: Eddy

13. STATE: New Mexico

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	~~Temp.~~ ABANDONMENT*	☒
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) Plug back			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Well has been plugged as follows:

Set 100' plug 11,300 - 11,400 (across Reef porosity)
Set 100' plug 10,350 - 10,450 (across T Wolfcamp lime)
Set 100' plug 8,920 - 9,020 (T/2nd B.S. sand)
Set 100' plug 6,950 - 6,850 (across T/B.S. lime)
Set 100' plug 4,450 - 4,550 (across T/Delaware sand)
Set 100' plug 3,160 - 3,260 (across base of 8-5/8" casing)
Mud laden fluid spotted between all plugs. Well is T.A. until casing can be cut off and recovered. Final plugging report will be made at that time.

RECEIVED
SEP 28 1965
O. C. C.
ARTESIA, OFFICE

RECEIVED
SEP 23 1965
U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

18. I hereby certify that the foregoing is true and correct

SIGNED A.R. Gibson A.R. Gibson TITLE District Drlg. Foreman DATE 9-21-65

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED
SEP 27 1965
Rudolph C. Baier, Jr.
RUDOLPH C. BAIER, JR.
ACTING DISTRICT ENGINEER

*See Instructions on Reverse Side

Form 9-331
(May 1963)

N. M. O. C. C. COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.: NM 010 7697

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Jones "B" Federal

9. WELL NO.: 4

10. FIELD AND POOL, OR WILDCAT: Undesignated Fusk

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Strawn
Sec. 26, T-19-S, R-31-E

12. COUNTY OR PARISH: Eddy

13. STATE: New Mexico

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—" for such proposals.)

MAIN OFFICE OCC
JAN 18 AM 7:58
OIL CONSERVATION DIVISION

1. OIL WELL ☐ GAS WELL ☐ OTHER dry

2. NAME OF OPERATOR: Tenneco Oil Company ✓

RECEIVED
DEC 10 1965
O. C. C.
ARTESIA, OFFICE

3. ADDRESS OF OPERATOR: Box 1031, Midland, Texas

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface
660' FNL & 990' FWL of Section 26

APPROVED
JAN 17 1966
O. C. C.
ARTESIA, OFFICE

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 3518 GL

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	X
REPAIR WELL	☐	CHANGE PLANS	☐				
(Other)				(Other)			

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Well has been plugged as follows:

Set 35 sx plug @ 1237' (across top of 8 5/8")
Set 35 sx plug @ 950' (across top of salt)
Set 35 sx plug @ 690' (across base of 13 3/8")
Set 15 sx plug @ surface

Mud ladden Fluid spotted between all plugs.

Well plugged and abandoned November 11, 1965

This final plugging report supplements the plugging report submitted September 21, 1965

RECEIVED
NOV 22 1965
U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

18. I hereby certify that the foregoing is true and correct

SIGNED A. R. Gibson TITLE Dist Drlg Foreman DATE 11-17-65

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED
JAN 14
H. L. BECKHAM
ACTING DISTRICT ENGINEER

*See Instructions on Reverse Side

Form 9-330
(Rev. 5-63)

N. M. O. C. C. COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

RECEIVED
NOV 30 1965
O. C. C.
ARTESIA, OFFICE
DEC 1 1965
OIL CONSERVATION DIVISION
DEC 10 1982
RECEIVED

5. LEASE DESIGNATION AND SERIAL NO.: NM 0107697

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Jones "B" Federal

9. WELL NO.: 4

10. FIELD AND POOL, OR WILDCAT: Undesignated Strawn

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 26, T-19-S, R-31-E

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ Other

b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐

2. NAME OF OPERATOR: Tenneco Oil Company

3. ADDRESS OF OPERATOR: Box 1031, Midland, Texas

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
At surface: 660' FNL & 990' FWL of Sec. 26
At top prod. interval reported below
At total depth

14. PERMIT NO.: DATE ISSUED RECEIVED

12. COUNTY OR PARISH: Eddy

13. STATE: New Mexico

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
8-21-65	9-18-65	P & A 11-15-65	3536 DF	3518

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
11539			→	Rotary	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: none

25. WAS DIRECTIONAL SURVEY MADE: no

26. TYPE ELECTRIC AND OTHER LOGS RUN: Sonic Log- Gamma Ray- Caliper

27. WAS WELL CORED: no

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8	48#	690	17½	700 sx	none
8 5/8	32#	3213	11	250sx	1237

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

RECEIVED
NOV 22 1965
U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

31. PERFORATION RECORD (Interval, size and number): none

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
none	

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS: Log as shown in section 26

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED A.R. Gibson TITLE Dist. Drlg. Foreman DATE 11-17-65

*(See Instructions and Spaces for Additional Data on Reverse Side)

TOC 541 - 7/81

VI. G

COMPANY

SUBJECT

LOCATION

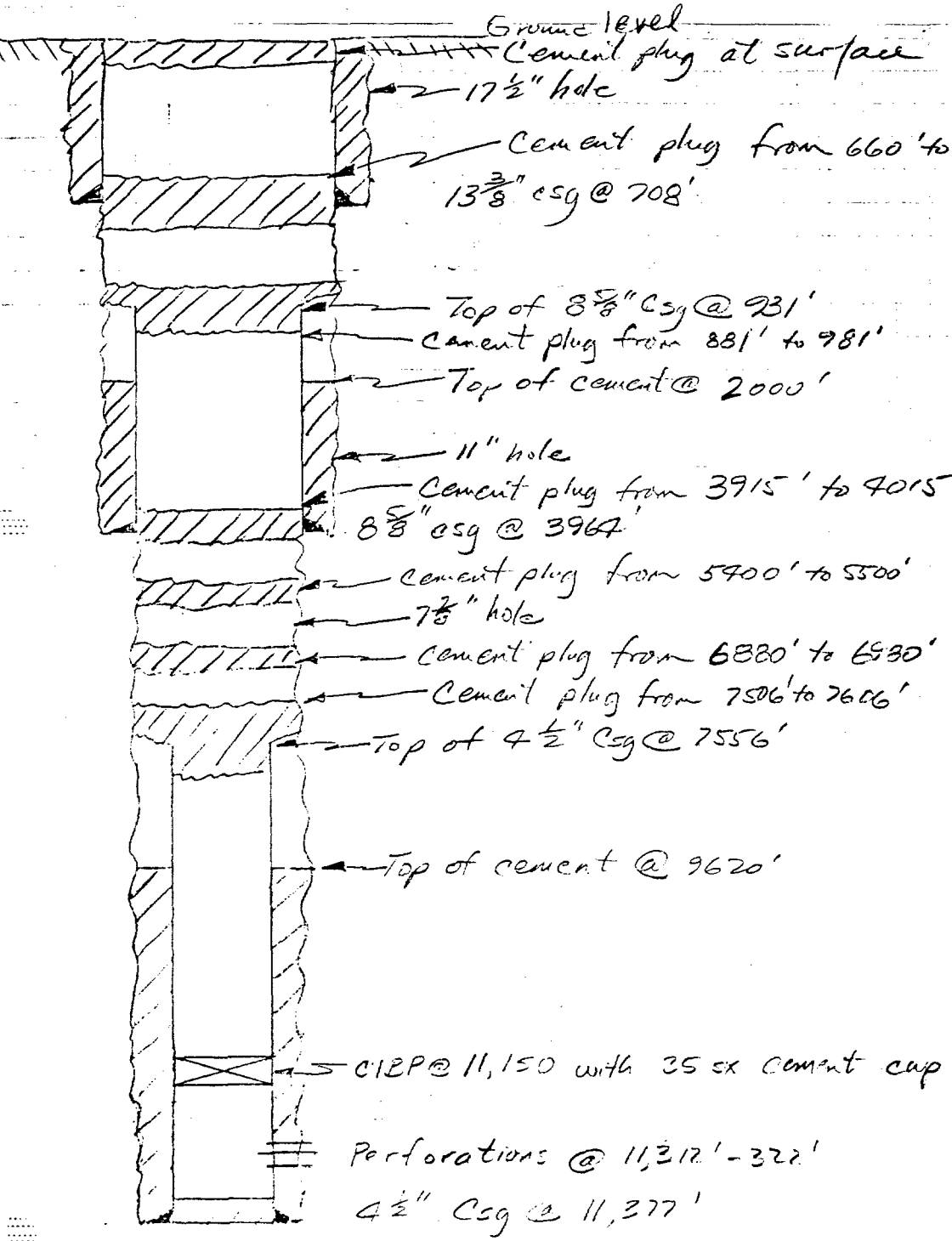
Barton Federal #2

Unit P, Sec 22, T19S, R31E

Lusk Strawn Field

Eddy County, New Mexico

(Well Plugged and Abandoned in 1972)



Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

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—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.: LC 063696

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

1. OIL WELL [X] GAS WELL [ ] OTHER: P & A

2. NAME OF OPERATOR: Tenneco Oil Company

8. FARM OR LEASE NAME: Barton Federal

3. ADDRESS OF OPERATOR: Suite 1200 - Lincoln Tower Bldg. - Denver, Colo 80203

9. WELL NO.: 2

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 660' F/SL and 660' F/EL

10. FIELD AND POOL, OR WILDCAT: Lusk Strawn

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 22, T19S, R31E

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 3501 GR

12. COUNTY OR PARISH: Eddy

13. STATE: New Mexico

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[X]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Well plugged and abandoned as follows: Shot & pulled 4 1/2" casing from 7556', 8-5/8" casing from 931' and pulled 11,174' of 2-3/8" tubing. CIBP set @ 11150' capped W/35 sks cement. Cement plugs installed as follows:

DEPTH From	To	No. of Sacks
7606	7506	30 @ 4 1/2" csg. stub
6980	6880	30 sks
5500	5400	30
4015	3915	35 across 8-5/8" csg. shoe
981	881	50 sks in & out of 8-5/8" csg. stub
760	660	35 sks across 13 3/8" csg. shoe
Surface		10 sks

Installed dry hole marker & cleaned location

RECEIVED
AUG 16 1972
U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

18. I hereby certify that the foregoing is true and correct

SIGNED: G. A. Ford TITLE: Sr. Production Clerk DATE: 8-15-72

(This space for Federal or State office use)

APPROVED BY: TITLE: DATE:

CONDITIONS OF APPROVAL, IF ANY:

APPROVED
NOV 29 1972
R. L. BEEKMAN
ACTING DISTRICT ENGINEER

*See Instructions on Reverse Side

Form 9-330
(Rev. 5-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION:
NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

2. NAME OF OPERATOR
Tenneco Oil Company

3. ADDRESS OF OPERATOR
Box 1031, Midland, Texas

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface 660' FNL & 660' FEL of Section 22
At top prod. interval reported below
At total depth

DEC 10 1982
RECEIVED

5. LEASE DESIGNATION AND SERIAL NO.: LC 063696
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT AGREEMENT NAME:
8. FARM OR LEASE NAME: Barton Federal
9. WELL NO.: 2
10. FIELD AND POOL, OR WILDCAT: Undesignated
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 22, T-19-S, R-31-E
12. COUNTY OR PARISH: Eddy
13. STATE: New Mexico

14. PERMIT NO. | DATE ISSUED

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
2-1-65	3-9-65	3-18-65	3517 DF	3501

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
11,378	11,346		→	Rotary	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
Strawn Reef 11,308 to 11,324

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN
Gamma Ray - Acoustilog - Caliper

27. WAS WELL CORED: No

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8	48#	708	17 1/2	650 sx	None
8 5/8	32#	3964	11	400 sx	None
4 1/2	11.6#	11377	7 7/8	325 sx	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8	11338	11223

31. PERFORATION RECORD (*Interval, size and number*)
11,312 - 11,322 w/4 SPF

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
11,312-11,322	1500 gals ret acid

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
3-18-65	Flowing	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
3-18-65	24	16/64		358	644	38 BAW	1800

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
1325	Packer		358	644	38BAW	

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*)
Vented - No gas pipe line available yet

TEST WITNESSED BY: Paul Watson

35. LIST OF ATTACHMENTS
Logs as listed in Section 26

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED J. F. Carnes TITLE Dist. Prod. Foreman DATE March 19, 1965

J.F. Carnes

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

1342-A

VII - 4

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES
MIDLAND DIVISION
HOBBS, NEW MEXICO 88240

LABORATORY WATER ANALYSIS

No. W82-553

To Tenneco Oil Company

6800 Park Ten Blvd., Suite 200 North

San Antonio, Texas

ATTN: Mr. Bob Mathias

Date 5-24-82

Submitted by _____ Date Rec. 5-22-82

Well No. As Marked Depth _____ Formation _____

County _____ Field _____ Source _____

	Jones "B" #2	Jones Federal #2	
Resistivity	0.075 @ 72°F.	0.069 @ 74°F.	
Specific Gravity	1.080	1.080	
pH	6.6	6.5	
Calcium (Ca)	1,640	1,650	*MPL
Magnesium (Mg)	Nil	Nil	
Chlorides (Cl)	83,000	83,000	
Sulfates (SO_4)	410	70	
Bicarbonates (HCO_3)	185	160	
Soluble Iron (Fe)	Light	Light	

Remarks:

*Milligrams per liter

Respectfully submitted,

Analyst: Esquivel

HALLIBURTON COMPANY

By W. L. Brewer
CHEMIST

cc:

NOTICE

THIS REPORT IS LIMITED TO THE DESCRIBED SAMPLE TESTED. ANY USER OF THIS REPORT AGREES THAT HALLIBURTON SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, WHETHER IT BE TO ACT OR OMISSION, RESULTING FROM SUCH REPORT OR ITS USE.

D. Attached

E. Disposal zone (Strawn formation) is productive of oil within one mile of the proposed disposal well (Jones Federal No. 1).

VIII.

A. Injection zone - Lusk Strawn, limestone, 62' thick, and at a depth of 11174'.

B. The only known water productive aquifers in the Lusk Strawn Area are in the Triassic Dockum Group at a depth between 50' and 900'. These aquifers are regional in extent.

IX. No stimulation will be done.

X. See attachment, logs already on file.

XI. To the best of our knowledge, there are no available and producing fresh water wells within one mile of the proposed disposal well (Jones Federal No. 1).

IX.

Procedure For Jones Federal No. 1 SWD Conversion

1. File C108 with State of New Mexico.
2. File 9-331 with U.S.G.S.
3. TIH with Baker "Lok-Set" Packer and 2 3/8" internally plastic coated N-80 8rd EUE tubing. Set packer at 11,042' with 15,000 psi compression.
4. Completely fill casing annulus with 2% KCL and oxygen scavenger and corrosion inhibitor.
5. Install injection lines and make well ready for injection.
6. Begin injection.
7. File 9-331 with U.S.G.S.

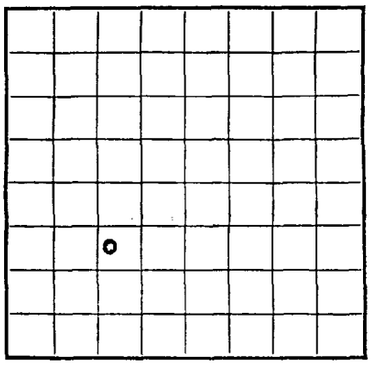
0271B

X.

Form 9-330

Form approved.
Budget Bureau No. 42-R355.4.

U. S. LAND OFFICE New Mexico
SERIAL NUMBER 0107697
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Delhi-Taylor Oil Corporation Address P. O. Box 1821, Midland, Texas
Lessor or Tract Jones Field Lusk Strawn (Undesignated) State New Mexico
Well No. 1-23 Sec. 23 T. 19S R. 31E Meridian NMPM County Eddy
Location 1650 ft. {N. / XXX} of S Line and 1650 ft. {E. / XXX} of W Line of Section 23 Elevation 3559 DF
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed Eugene S. Whitsett

Date November 7, 1963 Title District Clerk

The summary on this page is for the condition of the well at above date.

Commenced drilling May 24, 1963 Finished drilling August 2, 1963

OIL OR GAS SANDS OR ZONES

(*Denote gas by G*)

No. 1, from ____ to ____ No. 4, from ____ to ____
No. 2, from ____ to ____ No. 5, from ____ to ____
No. 3, from ____ to ____ No. 6, from ____ to ____

IMPORTANT WATER SANDS

No. 1, from ____ to ____ No. 3, from ____ to ____
No. 2, from ____ to ____ No. 4, from ____ to ____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
13-3/8	48#	8rd		514'	Float				Surface
8-5/8	32 & 24#	8rd		4005'	Float				Intermediate
5-1/2	17 & 20#	8rd		12785'	Float				Oil String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8	514'	500	Pump		
8-5/8	4000'	2250	Pump		
5-1/2	12785'	900	Pump		

PLUGS AND ADAPTERS

Heaving plug—Material ____ Length ____ Depth set ____
Adapters—Material ____ Size ____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from 0 feet to 12,853 feet, and from ____ feet to ____ feet
Cable tools were used from ____ feet to ____ feet, and from ____ feet to ____ feet

DATES

____, 19____ Put to producing October 21, 1963

The production for the first 24 hours was 60 barrels of fluid of which 90% was oil; 0% emulsion; 10% water; and 0% sediment.

Gravity, °Bé. 46.2°

If gas well, cu. ft. per ____ hours Gallons gasoline per 1,000 cu. ft. of gas ____

Rock pressure, lbs. per sq. in. ____

X.

Rock pressure, lbs. per sq. in. ----------

EMPLOYEES

Bruce Schane ----------, Driller E. Patterson ----------, Driller

Wesley Ozle ----------, Driller ----------, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	760	760	Red beds & sand
760	1110	350	Red beds & salt
1110	2120	1010	Salt
2120	2465	345	Salt & anhydrite
2465	2633	168	Anhydrite
2633	2714	81	Lime
2714	2943	229	Lime & anhydrite
2943	3108	165	Lime
3108	6203	3095	Lime & sand
6203	7771	1568	Lime
7771	7909	138	Sand & lime
7909	8369	460	Lime, sand & chert
8369	8761	392	Lime, shale & dolomite
8761	9073	312	Lime
9073	10135	1062	Lime & sand w/occasional shale stringers
10135	11281	1146	Lime & shale
11281	11300	19	Lime & sand
11300	11451	151	Lime
11451	12385	934	Lime & shale
12385	12536	151	Lime, sand & shale
12536	12663	127	Lime & shale
12663	12853	190	Lime, shale & sand

16—43094-5

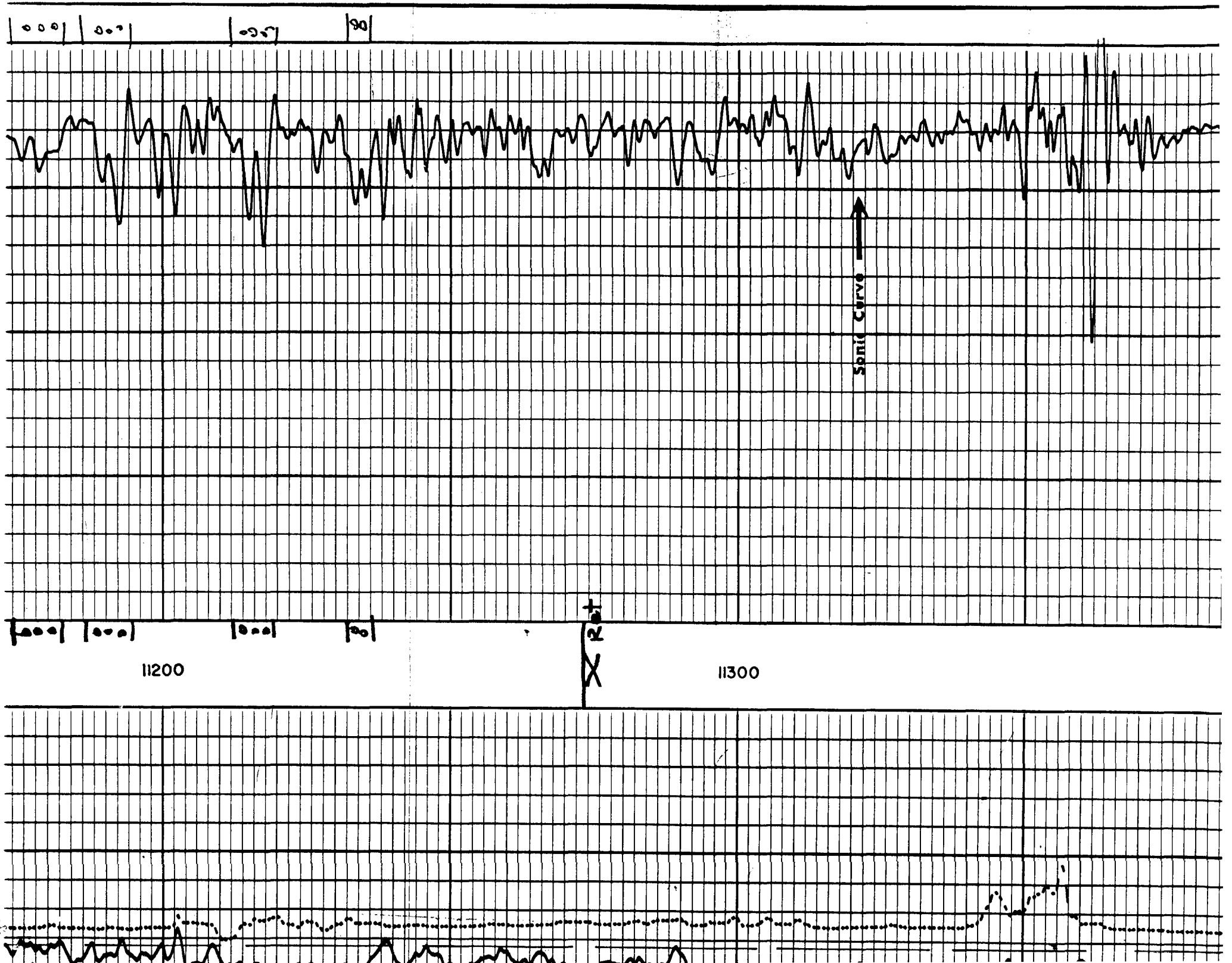
X.

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

GEOLOGIC TOPS (Electric Log)

Rustler	750'
Salt	895'
Tansill	1985'
Yates	2410'
Capitan	2760'
Delaware	4482'
Bone Springs	7020'
Wolfcamp	10440'
Strawn	11140'
Morrow	12240'


Sonic Curve
11200
11300

X.