

Case No.

7289

Application

Transcripts

Small Exhibits

ETC

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION FOR THE PURPOSE OF
CONSIDERING:

CASE NO. 7289
Order No. R-6740

APPLICATION OF EXXON CORPORATION
FOR A SALT WATER DISPOSAL WELL,
CHAVES COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on July 2, 1981,
at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 28th day of July, 1981, the Division
Director, having considered the record and the recommendations
of the Examiner, and being fully advised in the premises,

FINDS:

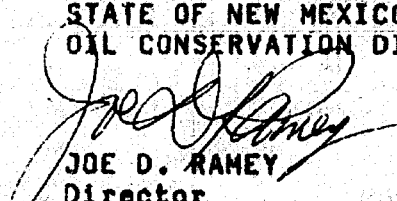
That the applicant's request for dismissal should be
granted.

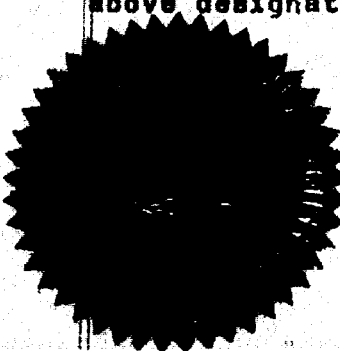
IT IS THEREFORE ORDERED:

That Case No. 7289 is hereby dismissed.

DONE at Santa Fe, New Mexico, on the day and year herein-
above designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


JOE D. RAMEY
Director


SEAL
rd/



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

July 29, 1981

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-2434

Mr. P. W. Henderson
Exxon Company, U.S.A.
Post Office Box 1600
Midland, Texas 79702

Re: CASE NO. 7289
ORDER NO. R-6740

Applicant:

Exxon Corporation

Dear Sir:

Enclosed herewith are two copies of the above-referenced Division order recently entered in the subject case.

Yours very truly,

JOE D. RAMEY
Director

JDR/fd

Copy of order also sent to:

Hobbs OCD x
Artesia OCD x
Aztec OCD

Other

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
STATE LAND OFFICE BLDG.
SANTA FE, NEW MEXICO
2 July 1981

EXAMINER HEARING

IN THE MATTER OF:

Application of Exxon Corporation for a
salt water disposal well, Chaves
County, New Mexico.

CASE
7289

BEFORE: Richard L. Stamets

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the Oil Conservation
Division:

W. Perry Pearce, Esq.
Ernest L. Padilla, Esq.
Legal Counsel to the Division
State Land Office Bldg.
Santa Fe, New Mexico 87501

For the Applicant:

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MR. STAMETS: Call next Case 7289.

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MR. PEARCE: Application of Exxon Corpor-

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ation for a salt water disposal well, Chaves County, New

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Mexico.

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MR. STAMETS: At the request of the

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applicant, this case will be dismissed.

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(Hearing concluded.)

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C E R T I F I C A T E

I, SALLY W. BOYD, C.S.R., DO HEREBY CERTIFY that the foregoing Transcript of Hearing before the Oil Conservation Division was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability.

Sally W. Boyd CSR

SALLY W. BOYD, C.S.R.

Rt. 1 Box 193-B
Santa Fe, New Mexico 87501
Phone (505) 455-7409

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 7284, heard by me on 7-2 1967.
Richard L. Stone, Examiner
Oil Conservation Division

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
STATE LAND OFFICE BLDG.
SANTA FE, NEW MEXICO

2 July 1981

EXAMINER HEARING

IN THE MATTER OF:

Application of Exxon Corporation for a
salt water disposal well, Chaves
County, New Mexico.

CASE
7289

BEFORE: Richard L. Stamets

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the Oil Conservation
Division:

W. Perry Pearce, Esq.
Ernest L. Padilla, Esq.
Legal Counsel to the Division
State Land Office Bldg.
Santa Fe, New Mexico 87501

For the Applicant:

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MR. STAMETS: Call next Case 7289.

MR. PEARCE: Application of Exxon Corporation for a salt water disposal well, Chaves County, New Mexico.

MR. STAMETS: At the request of the applicant, this case will be dismissed.

(Hearing concluded.)

C E R T I F I C A T E

I, SALLY W. BOYD, C.S.R., DO HEREBY CERTIFY that the foregoing Transcript of Hearing before the Oil Conservation Division was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability.

Sally W. Boyd CSR

I do hereby certify that the foregoing is a correct and true transcript of the proceedings in the Examiner hearing of Case No. _____, heard by me on _____ 19____.

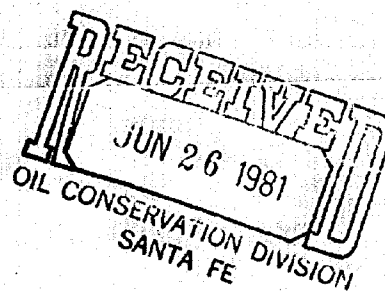
_____, Examiner
Oil Conservation Division

SALLY W. BOYD, C.S.R.

Box 1 Box 191-B
Santa Fe, New Mexico 87501
Phone (505) 455-7409

EXXON COMPANY, U.S.A.
POST OFFICE BOX 1600 • MIDLAND, TEXAS 79702

PRODUCTION DEPARTMENT
MIDCONTINENT DIVISION
P.W. HENDERSON
OPERATIONS MANAGER



June 22, 1981

Case 7289

Application for SWD
Strange Federal Well
No. 3-J, 25-T7S-R31E
Tomahawk Field
Chaves County, New Mexico

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

Attention Mr. R. L. Stamets

Gentlemen:

Exxon would like to withdraw the subject application dated May 12, 1981.
This withdrawal is a result of the objection by offset operator Yates
Petroleum Corporation.

Notice of hearing for July 2, 1981 was received in this office on June 12.
As the application is being withdrawn, please remove this matter from the
hearing docket.

Yours very truly,

P.W. Henderson

P. W. Henderson

LLC:kb

cc: B. J. Ingram

A DIVISION OF EXXON CORPORATION

Dockets Nos. 22-81 and 23-81 are tentatively set for July 15 and 29, 1981. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - THURSDAY - JULY 2, 1981

9 A.M. - OIL CONSERVATION DIVISION CONFERENCE ROOM,
STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

The following cases will be heard before Richard L. Stamets, Examiner, or Daniel S. Nutter, Alternate Examiner:

- CASE 7283: Application of Harvey E. Yates Company for amendment of Division Order No. R-6387, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Division Order No. R-6382 to provide that said order authorizing the McDonald Unit Agreement shall have an effective date of June 1, 1981.
- CASE 7284: Application of Energy Reserves Group, Inc. for an unorthodox gas well location, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox Cisco location of its Miller Well No. 1 located 660 feet from the South and West lines of Section 12, Township 6 South, Range 33 East, the S/2 of said Section 12 to be dedicated to the well.
- CASE 7285: Application of J. C. Williamson for two non-standard gas proration units and two unorthodox locations, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for two non-standard 320-acre Wolfcamp gas proration units in Section 10, Township 23 South, Range 34 East, the first comprising the NW/4, W/2 NE/4, and N/2 SW/4, and the second comprising the E/2 NE/4, S/2 SW/4, and SE/4. Applicant further seeks approval for two unorthodox locations, the first for a well drilled 1560 feet from the North line and 1830 feet from the West line of said Section 10, and the second for a well to be drilled 1980 feet from the South and East lines of the section.
- CASE 7286: Application of Supron Energy Corporation for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Basin-Dakota and Blanco Mesaverde production in the wellbore of its Jicarilla F Well No. 6 located in the SW/4 of Section 34, Township 26 North, Range 4 West.
- CASE 7287: Application of Benson-Montin-Greer Drilling Corporation for compulsory pooling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the West Puerto Chiquito-Mancos Oil Pool underlying a previously approved 640-acre non-standard proration unit comprising the W/2 of Section 17 and the W/2 of Section 20, Township 26 North, Range 1 West, to be dedicated to a well to be drilled thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.
- CASE 7288: Application of Southern Union Exploration Company of Texas for contraction of the West Puerto Chiquito-Mancos Oil Pool, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks the contraction of the West Puerto Chiquito-Mancos Oil Pool by the deletion of Section 36, Township 24 North, Range 1 West, therefrom.
- CASE 7251: (Continued from June 3, 1981, Examiner Hearing)
- Application of Southern Union Exploration Company of Texas for compulsory pooling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the West Puerto Chiquito-Mancos Oil Pool underlying all of Section 36, Township 24 North, Range 1 West, to be dedicated to its Mobil Federal Well No. 1 drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.
- CASE 7289: Application of Exxon Corporation for a salt water disposal well, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Queen formation at a depth of 2638 feet to 2774 feet in its Strange Federal Well No. 3 in Unit J of Section 25, Township 7 South, Range 31 East, Tomahawk-San Andres Pool.
- CASE 7290: Application of Yates Petroleum Corporation for compulsory pooling, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Abo formation underlying the NE/4 of Section 26, Township 5 South, Range 24 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.

- CASE 7291:** Application of ARCO Oil and Gas Company for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Silurian and Fusselman formations underlying the N/2 of Section 6, Township 25 South, Range 37 East, Custer Field, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.
- CASE 7292:** Application of ARCO Oil and Gas Company for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Devonian thru Ellenburger formations underlying the S/2 of Section 6, Township 25 South, Range 37 East, Custer Field, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.
- CASE 7293:** Application of ARCO Oil and Gas Company for an amendment to Order No. R-6649, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an amendment to Division Order No. R-6649 which authorized compulsory pooling in Section 33, Township 22 South, Range 36 East, Langlie Field, to extend to February 1, 1982, the commencement of drilling required in said order.
- CASE 7294:** Application of ARCO Oil and Gas Company for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Seven Rivers-Queen formation at a depth of 2996 feet to 3186 feet in its R. S. Crosby Well No. A-2 located in Unit L of Section 28, Township 25 South, Range 37 East, Langlie Mattix Pool.
- CASE 7248:** (Continued from June 3, 1981, Examiner Hearing)
Application of Inexco Oil Company for pool creation, special pool rules, and an oil discovery allowable, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Wolfcamp oil pool for its Federal 10 State Com. Well No. 1 located in Unit L of Section 10, Township 21 South, Range 26 East, and the promulgation of special rules therefor, including provisions for 160-acre spacing. Applicant further seeks the assignment of approximately 42,290 barrels of discovery allowable to the aforesaid well.
- CASE 7280:** (Continued from June 17, 1981, Examiner Hearing)
Application of Northwest Pipeline Corporation for a dual completion and downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks authority to dually complete its Rosa Unit Well No. 77 located in Unit L of Section 33, Township 31 North, Range 5 West, to produce gas from the Mesaverde formation and commingled Gallup and Dakota production through separate strings of tubing.
- CASE 7295:** Application of Gulf Oil Corporation for rescission of Division Order No. R-2429-C, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the rescission of Division Order No. R-2429-C which authorized 320-acre spacing units in the White City-Pennsylvanian Gas Pool. Applicant seeks the reinstatement of 640-acre spacing units in said pool with provision for 320-acre infill drilling and appropriate findings relative thereto.
- CASE 7296:** Application of J. Gregory Merriam and Robert L. Bayless for amendment of pool rules, contraction of the Otero-Gallup Pool, and extension of the Devils Fork-Gallup Associated Pool, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of the Devils Fork-Gallup Associated Pool Rules to provide for 160-acre spacing rather than 80 acres. Applicant further seeks the contraction of the Otero-Gallup Pool by the deletion of the following acreage: E/2 and NE/4 SW/4 of Section 2, Township 24 North, Range 6 West, and the E/2 of Section 35, Township 25 North, Range 6 West. Applicant seeks the extension of the Devils Fork-Gallup Associated Pool to include the following acreage: In Township 24 North, Range 6 West: All of Sections 2 and 3; S/2 and NE/4 of Section 4; S/2 of Section 5; S/2 of Section 6; and N/2 of Section 11. In Township 25 North, Range 6 West: SE/4 of Section 33; S/2 of Section 34; and all of Section 35.
- CASE 7297:** (This case will be dismissed.)
Application of Amoco Production Company for an NCPA determination, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks a new onshore reservoir determination in the Morrow formation for its Alley Unit Well No. 1 in Unit E of Section 1, Township 19 South, Range 25 East.

CASE 7298: (This case will be dismissed.)

Application of Amoco Production Company for an NCPA determination, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks a new onshore reservoir determination in the Morrow formation for its Lancaster Springs Com Well No. 1 in Unit I of Section 1, Township 22 South, Range 26 East.

CASE 7299: (This case will be dismissed.)

Application of Amoco Production Company for an NCPA determination, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks a new onshore reservoir determination in the Morrow formation for its State IL Com Well No. 1 in Unit G of Section 3, Township 19 South, Range 24 East.

CASE 7300: Application of Dome Petroleum Corporation for designation of a tight formation, Sandoval County, New Mexico. Applicant, in the above-styled cause, seeks the designation of the Chacra formation underlying portions of Townships 21 and 22 North, Ranges 5, 6, and 7 West, containing 73,018 acres, more or less, as a tight formation pursuant to Section 107 of the Natural Gas Policy Act and 18 CFR Section 271.701-705.

CASE 7301: In the matter of the hearing called by the Oil Conservation Division on its own motion for an order creating, redesignating, and extending vertical and horizontal limits of certain pools in Chaves, Eddy, Lea, and Roosevelt Counties, New Mexico:

(a) CREATE a new pool in Lea County, New Mexico, classified as a gas pool for Morrow production and designated as the East Lusk-Morrow Gas Pool. The discovery well is Grace Petroleum Corporation West Tonto Federal Com Well No. 1 located in Unit L of Section 24, Township 19 South, Range 32 East, NMPM. Said pool would comprise:

TOWNSHIP 19 SOUTH, RANGE 32 EAST, NMPM
Section 24: W/2

(b) CREATE a new pool in Roosevelt County, New Mexico, classified as an oil pool for Mississippian production and designated as the Pererson-Mississippian Pool. The discovery well is Edsach Exploration, Inc. Finley Well No. 1 located in Unit A of Section 6, Township 5 South, Range 33 East, NMPM. Said pool would comprise:

TOWNSHIP 4 SOUTH, RANGE 33 EAST, NMPM
Section 28: SW/4
Section 29: S/2
Section 32: W/2

TOWNSHIP 5 SOUTH, RANGE 33 EAST, NMPM
Section 5: NW/4
Section 6: NE/4

(c) CREATE a new pool in Lea County, New Mexico, classified as a gas pool for Wolfcamp production and designated as the Salado Draw-Wolfcamp Gas Pool. The discovery well is Amoco Production Company Sirte GR Well No. 1 located in Unit C of Section 17, Township 26 South, Range 33 East, NMPM. Said pool would comprise:

TOWNSHIP 26 SOUTH, RANGE 33 EAST, NMPM
Section 17: E/2

(c) CREATE a new pool in Lea County, New Mexico, classified as a gas pool for Strawn production and designated as the Talco-Strawn Gas Pool. The discovery well is American Trading and Producing Corporation Talco Unit Well No. 1 located in Unit H of Section 11, Township 26 South, Range 35 East, NMPM. Said pool would comprise:

TOWNSHIP 26 SOUTH, RANGE 35 EAST, NMPM
Section 11: E/2

(e) REDESIGNATE the Lusk-Seven Rivers Pool in Lea County, New Mexico, to the North Lusk-Seven Rivers Pool described as:

TOWNSHIP 19 SOUTH, RANGE 32 EAST, NMPM
Section 32: All

(f) EXTEND the vertical limits of the Lusk-Yates Pool in Eddy and Lea Counties, New Mexico, to include the Seven Rivers formation and redesignate pool as the Lusk Yates-Seven Rivers Pool described as:

TOWNSHIP 19 SOUTH, RANGE 31 EAST, NMPM
Section 24: All

TOWNSHIP 19 SOUTH, RANGE 32 EAST, NMPM
Section 19: W/2 and W/2 NE/4

(g) EXTEND the Angell Ranch Atoka-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 27 EAST, NMPM
Section 11: S/2
Section 14: All

TOWNSHIP 19 SOUTH, RANGE 28 EAST, NMPM
Section 32: S/2

(h) EXTEND the Antelope Ridge-Atoka Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 34 EAST, NMPM
Section 2: W/2 and NE/4
Section 11: W/2

(i) EXTEND the Atoka-Yeso Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 26 EAST, NMPM
Section 26: NW/4 SW/4
Section 33: S/2 SE/4

TOWNSHIP 19 SOUTH, RANGE 26 EAST, NMPM
Section 4: NW/4 NE/4

(j) EXTEND the Boyd-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 24 EAST, NMPM
Section 34: S/2

TOWNSHIP 18 SOUTH, RANGE 25 EAST, NMPM
Section 34: E/2

TOWNSHIP 19 SOUTH, RANGE 24 EAST, NMPM
Section 3: All
Section 10: N/2
Section 11: W/2

(k) EXTEND the Bull's Eye-San Andres Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 8 SOUTH, RANGE 28 EAST, NMPM
Section 12: N/2 SE/4

TOWNSHIP 8 SOUTH, RANGE 29 EAST, NMPM
Section 7: N/2 SW/4

(l) EXTEND the South Culebra Bluff-Bone Springs Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 28 EAST, NMPM
Section 27: N/2 NE/4

(m) EXTEND the Dublin Ranch-Atoka Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 28 EAST, NMPM
Section 33: N/2

(n) EXTEND the East Eagle Creek Atoka-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 26 EAST, NMPM
Section 30: N/2

- (o) EXTEND the Southwest Eunice-San Andres Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM
Section 17: NE/4

- (p) EXTEND the Gem-Morrow Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 33 EAST, NMPM
Section 31: E/2

- (q) EXTEND the Gladiola-Wolfcamp Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 12 SOUTH, RANGE 38 EAST, NMPM
Section 20: NE/4
Section 21: N/2

- (r) EXTEND the Grayburg Jackson Seven Rivers-Queen-Grayburg-San Andres Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 31 EAST, NMPM
Section 1: W/2 SW/4

- (s) EXTEND the North Illinois Camp-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 28 EAST, NMPM
Section 16: E/2

- (c) EXTEND the Langlie Mattix Seven Rivers-Queen-Grayburg Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM
Section 31: SW/4

- (u) EXTEND the North Loving-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 28 EAST, NMPM
Section 7: S/2

- (v) EXTEND the West Nadine-Blinbry Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 20 SOUTH, RANGE 38 EAST, NMPM
Section 5: E/2
Section 8: NE/4

- (w) EXTEND the East Red Lake Queen-Grayburg Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 16 SOUTH, RANGE 28 EAST, NMPM
Section 25: W/2 NE/4 and NW/4 SE/4

- (x) EXTEND the Richard Knob Atoka-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 25 EAST, NMPM
Section 9: N/2

- (y) EXTEND the West Sawyer-San Andres Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 9 SOUTH, RANGE 37 EAST, NMPM
Section 16: S/2

- (z) EXTEND the Scharb-Wolfcamp Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 35 EAST, NMPM
Section 5: E/2

(aa) EXTEND the Tomhawk-San Andres Pool in Roosevelt County, New Mexico, to include therein:

TOWNSHIP 7 SOUTH, RANGE 32 EAST, NMPM
Section 19: NW/4

(bb) EXTEND the Wantz-Abo Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM
Section 11: SW/4
Section 14: NW/4

Docket No. 21-81

DOCKET: COMMISSION HEARING - WEDNESDAY - JULY 8, 1981

OIL CONSERVATION COMMISSION - 9 A.M. - ROOM 205
STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

CASE 7226: (DE NOVO)

Application of Enserch Exploration, Inc. for salt water disposal, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Montoya formation in the interval from 7902 feet to 7930 feet in its Rader Well No. 2 in Unit E of Section 32, Township 5 South, Range 33 East.

Upon application of Enserch Exploration, Inc. this case will be heard De Novo pursuant to the provisions of Rule 1220.

CASE 7275: (Continued from June 17, 1981, Examiner Hearing)

Application of S. P. Yates for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Wolfcamp-Pennsylvanian formations underlying the N/2 of Section 21, Township 19 South, Range 27 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision; designation of applicant as operator of the well, and a charge for risk involved in drilling said well.

CASE 7270: (Continued from June 17, 1981, Examiner Hearing)

Application of Southland Royalty Company for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Wolfcamp and Pennsylvanian formations underlying the N/2 of Section 21, Township 19 South, Range 27 East, to be dedicated to its Pecos River Federal 21-A Com Well No. 1 drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR
LARRY KEHOE
SECRETARY

May 25, 1981

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-2434

Exxon Corporation
P. O. Box 1600
Midland, Texas 79702

Case 7289

Attention: Mr. P. W. Henderson

Re: Application for SWD
Strange Federal Well
No. 3-J, 25-T7S-R31E,
Tomahawk Field,
Chaves County, New Mexico

Dear Mr. Henderson:

The subject application originally dated March 25, 1981, and supplemented May 12, 1981, will not be approved administratively.

The tabular summary of nearby wells submitted May 12 reveals three wells which are not cemented across the proposed injection zone. Further, the Division has received an objection to the application from Yates Petroleum Corporation, an offset operator.

This matter will be set for hearing on July 2, 1981, unless we hear otherwise from you by June 10, 1981.

Sincerely,

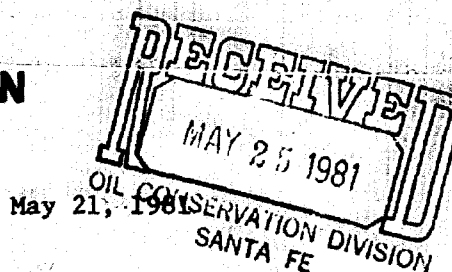
R. L. STAMETS
Technical Support Chief

RLS/fd

cc: Eddie Mahfood
Yates Petroleum Corporation



207 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210
TELEPHONE (505) 746-3558



S. P. YATES
PRESIDENT
MARTIN YATES, III
VICE PRESIDENT
JOHN A. YATES
VICE PRESIDENT
B. W. HARPER
SEC. TREAS.

Mr. Joe D. Ramey, Director
New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Case 7289

Re: Application for Salt Water Disposal
Exxon Strange Federal No. 3
Unit J, Sec. 25-7S-31E, Tomahawk Field
Chaves County, New Mexico

Dear Mr. Ramey:

Yates Petroleum objects to disposal of produced water in the porous strata at 2638-2774 as proposed by Exxon Company for conversion of their Strange Federal No. 3.

Most of the San Andres completions within a 2-mile radius of the proposed disposal well were cemented with less than 250 sacks and therefore their production casing opposite the proposed injection zone is not covered with cement. Salt water injection will ultimately produce above normal pressure in the strata, enhancing corrosion and eventually resulting in collapsed casing and/or salt water flows.

Yours truly,

YATES PETROLEUM CORPORATION

Eddie M. Mahfood

Eddie M. Mahfood
Petroleum Engineer

EMM:jg

cc: Exxon Company, U.S.A.
P.O. Box 1600
Midland, TX 79702
ATT: P. W. Henderson

EXXON COMPANY, U.S.A.

POST OFFICE BOX 1600 • MIDLAND, TEXAS 79702

*copy to Jerry
for review
5-22-81*

PRODUCTION DEPARTMENT
MIDCONTINENT DIVISION

P.W. HENDERSON
OPERATIONS MANAGER

May 12, 1981

Application for Salt Water Disposal
Exxon Strange-Federal No. 3, Unit J
Sec. 25-7S-31E, Tomahawk Field
Chaves County, New Mexico

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

Attention Mr. Joe D. Ramey, Director

Case 7289

Gentlemen:

Administrative approval is respectfully requested to dispose of produced salt water into a non-productive formation through the subject well.

The proposed disposal well was drilled for development in the San Andres formation, but was unsuccessful in establishing commercial production. The proposed disposal zone is not productive of oil or gas within a two-mile radius of the disposal well.

In accordance with Rule 701-B and C and Memo 3-77, the following supporting information is attached:

- 1) Application to Dispose of Salt Water by Injection into a Porous Formation;
- 2) Plat of well location;
- 3) Copy of log;
- 4) Produced water analysis;
- 5) Diagrammatic wellbore sketch;
- 6) Tabular summary of all wells within one-half mile of the proposed injection well.

There are no plugged wells within one-half mile of the subject well.

Copies of the application have been sent to the surface owner and to each of the operators listed on form C-108. Please advise if any additional information is necessary to process this application.

Yours very truly,

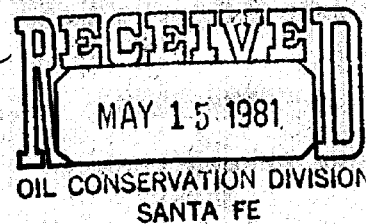
P.W. Henderson
P. W. Henderson

LLC:kb

Attachments

cc: Surface Owner
Offset Operators

B. J. Ingram
A DIVISION OF EXXON CORPORATION
J. W. Canning



Wells Penetrating The Queen Formation

Within 1/2 mile of the Exxon Strange Federal #3

<u>Well Name</u>	<u>Location</u>	<u>TD</u>	<u>Prod. Interval</u>	<u>Casing/Depth</u>	<u>TOC/# of Sks</u>
Exxon Strange Fed. #1 #30-005-20717	660' FSL, 660' FEL Sec. 25, T-7-S, R-31-E	4288'	3894'-4192'	8-5/8" @ 1699' 5-1/2" @ 4274'	Surface/850 1699'/1820
Strange Fed. #2 #30-007-20718	660' FSL, 1980' FEL Sec. 25, T-7-S, R-31-E	4305'	3866'-4129'	8-5/8" @ 1624' 5-1/2" @ 4299'	Surface/850 1624'/1650
Strange Fed. #4 #30-005-20720	1980' FSL, 660' FEL Sec. 25, T-7-S, R-31-E	4310'	3835'-4220'	8-5/8" @ 1696' 5-1/2" @ 4288'	Surface/850 1696'/1650
Strange Fed. #5 #30-005-20752	660' FSL, 1980' FWL Sec. 25, T-7-S, R-31-E	4305'	3801'-4215'	8-5/8" @ 1600' 5-1/2" @ 4295'	Surface/850 1600'/1750
ates Pet. Charley Paul "LR" #1 30-005-20693	1980' FNL, 660' FEL Sec. 25, T-7-S, R-31-E	4260'	4068'-4102'	8-5/8" @ 1724' 4-1/2" @ 4260'	Surface/700 * 3218'/300
Loveless "LQ" St. #1 30-005-20692	660' FNL, 1980' FEL Sec. 36, T-7-S, R-31-E	4290'	4090'-4162'	8-5/8" @ 1710' 4-1/2" @ 4290'	Surface/700 * 3248'/300
Sundance Cone Fed. #17 30-041-20498	1980' FSL, 660' FWL Sec. 30, T-7-S, R-31-E	4285'	4100'-4132'	8-5/8" @ 1783' 4-1/2" @ 4285'	Surface/450 * 3243'/300

* Estimated

There are no plugged wells within 1/2 mile of the Exxon Strange Federal #3.

JWC/sg
4-15-81

Case 7289

NEW MEXICO OIL CONSERVATION COMMISSION

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

OPERATOR Exxon Corporation		ADDRESS P. O. Box 1600, Midland, Texas 79701			
LEASE NAME Strange Federal	WELL NO. 3	FIELD Tomahawk San Andres	COUNTY Chaves		
LOCATION UNIT LETTER J ; WELL IS LOCATED 2100 FEET FROM THE South LINE AND 1980 FEET FROM THE East LINE, SECTION 25 TOWNSHIP 7-S RANGE 31-E NMPM.					
CASING AND TUBING DATA					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	8 5/8	1649	850	To Surface	Circulate 175 sx to Surface
INTERMEDIATE					
LONG STRING	5 1/2	4288	1650	600' est.	
TUBING	2 7/8	4130	NAME, MODEL AND DEPTH OF TUBING PICKER Baker Lok Set @ 2600'		
NAME OF PROPOSED INJECTION FORMATION Queen		TOP OF FORMATION 2618		BOTTOM OF FORMATION 3251	
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLES Perforations		PROPOSED INTERVAL(S) OF INJECTION 2638-56, 70-90, 94-704, 2710-18, 22-24, 30-44, 54-74	
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No		IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Oil Production		HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? Yes/San Andres	
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH 3808-4227, Squeeze procedure will be initiated contingent w/NMOCC approval					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 1635'		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 9540'	
ANTICIPATED DAILY INJECTION VOLUME (BBL/S.) 150	MINIMUM 130	MAXIMUM 500	OPEN OR CLOSED TYPE SYSTEM Open	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Pressure	APPROX. PRESSURE (PSI) Unknown
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		
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) Mays Jenkins; South Star Rt. - Elida, New Mexico			NATURAL WATER IN DISPOSAL ZONE Unknown		
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL Yates Petroleum Company - 207 So. 4th St., Artesia, New Mexico 88210			ARE WATER ANALYSES ATTACHED? Yes		
Holly Energy, Inc. - 707 W. Indiana; Midland, Texas 79701					
Sundance Oil Co. - Center Bldg., 1776 Lincoln St.; Denver, Colo. 80203					
Union Oil Co. of Cal., 500 N. Marienfeld, Midland, Texas 79701					
Flag-Redfern Oil Co., Box 23, Midland, Texas 79702					
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	

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

J. K. Lytle
(Signature)Division Staff Engineer
(Title)5-7-81
(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.

UNICHEM INTERNATIONAL

601 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : EXXON USA
DATE : 4-29-81
FIELD LEASE & WELL : STRANGE FEDERAL
SAMPLING POINT: TANK BATTERY
DATE SAMPLED : 4-20-81

SPECIFIC GRAVITY = 1.186
TOTAL DISSOLVED SOLIDS = 274477
PH = 5.94

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	1660	33266
MAGNESIUM	(MG)+2	1060	12385
SODIUM	(NA).CALC.	2253	51809
ANIONS			
BICARBONATE	(HCO3)-1	4.3	262
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	6.0	292
CHLORIDES	(CL)-1	4963	125960
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON(TOTAL)	(FE)		57.5
BARIUM	(BA)+2	NOT RUN	
STRONTIUM	(SR)+2	NOT RUN	

SCALING INDEX	TEMP
	30C
	86F
CARBONATE INDEX	-7.4
CALCIUM CARBONATE SCALING	UNLIKELY
SULFATE INDEX	.355
CALCIUM SULFATE SCALING	LIKELY

UNICHEM INTERNATIONAL

601 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : EXXON USA
DATE : 4-29-81
FIELD LEASE/WELL : SMITH FEDERAL
SAMPLING POINT: TANK BATTERY
DATE SAMPLED : 4-20-81

SPECIFIC GRAVITY = 1.196
TOTAL DISSOLVED SOLIDS = 289238
PH = 5.7

ME./L.

MG./L.

CATIONS

CALCIUM (CA)+2
MAGNESIUM (MG)+2
SODIUM (NA).CALC.

1450
1710
2177.

29058
20786.
50055.

ANIONS

BICARBONATE (HCO3)-1
CARBONATE (CO3)-2
HYDROXIDE (OH)-1
SULFATE (SO4)-2
CHLORIDES (CL)-1

1.7
0
0
5.7
5329.

103.
0
0
277.
188957.

DISSOLVED GASES

CARBON DIOXIDE (CO2)
HYDROGEN SULFIDE (H2S)
OXYGEN (O2)

NOT RUN
NOT RUN
NOT RUN

IRON(TOTAL) (FE)
BARIUM (BA)+2
STRONTIUM (SR)+2

NOT RUN
NOT RUN

SCALING INDEX

TEMP

CARBONATE INDEX
CALCIUM CARBONATE SCALING

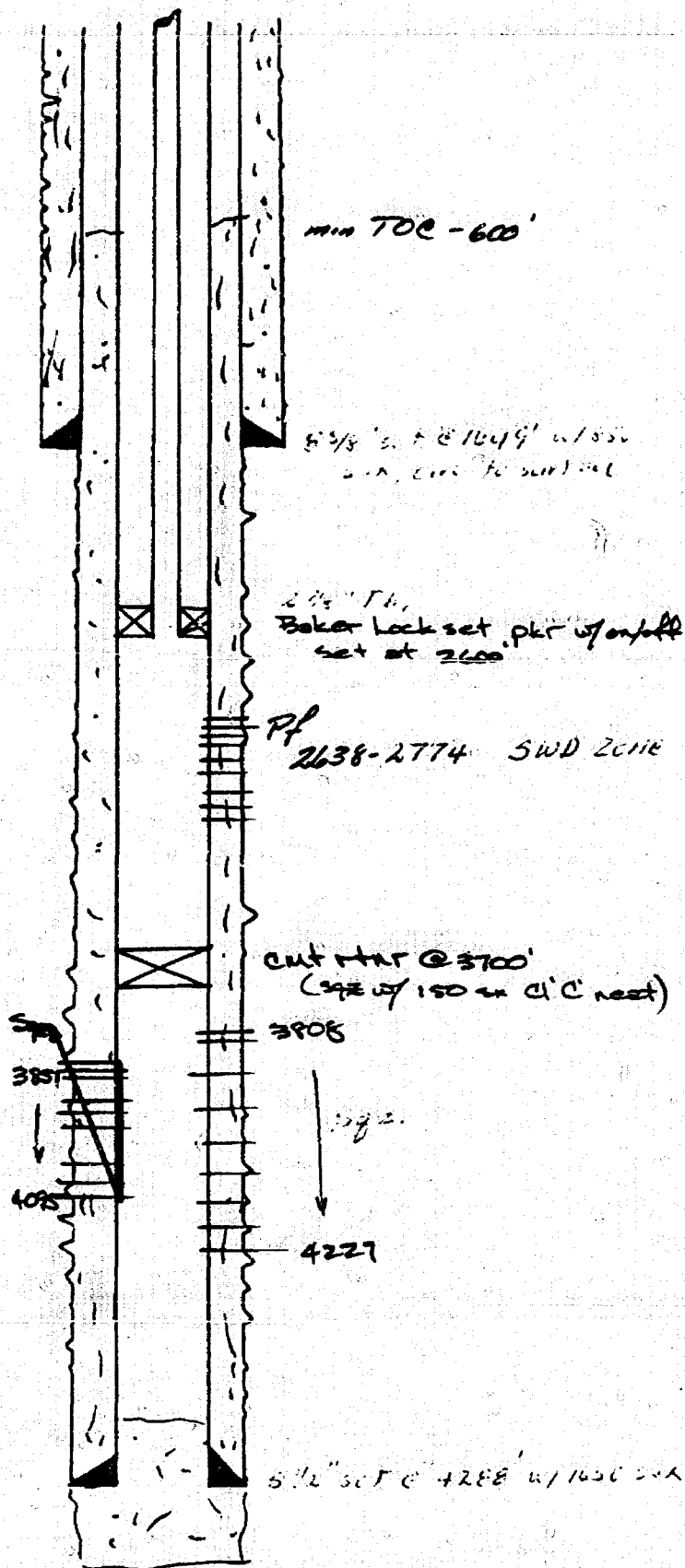
30C
86F
-13
UNLIKELY

SULFATE INDEX
CALCIUM SULFATE SCALING

.386
LIKELY

BRAXON COMPANY, U.S.A.
ANDREWS DISTRICT

WELLBORE SKETCH



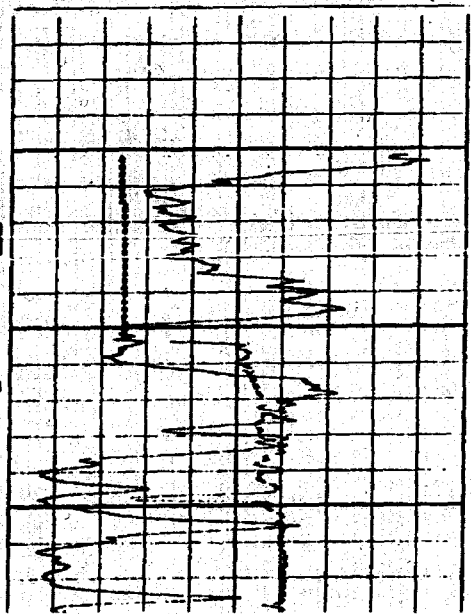
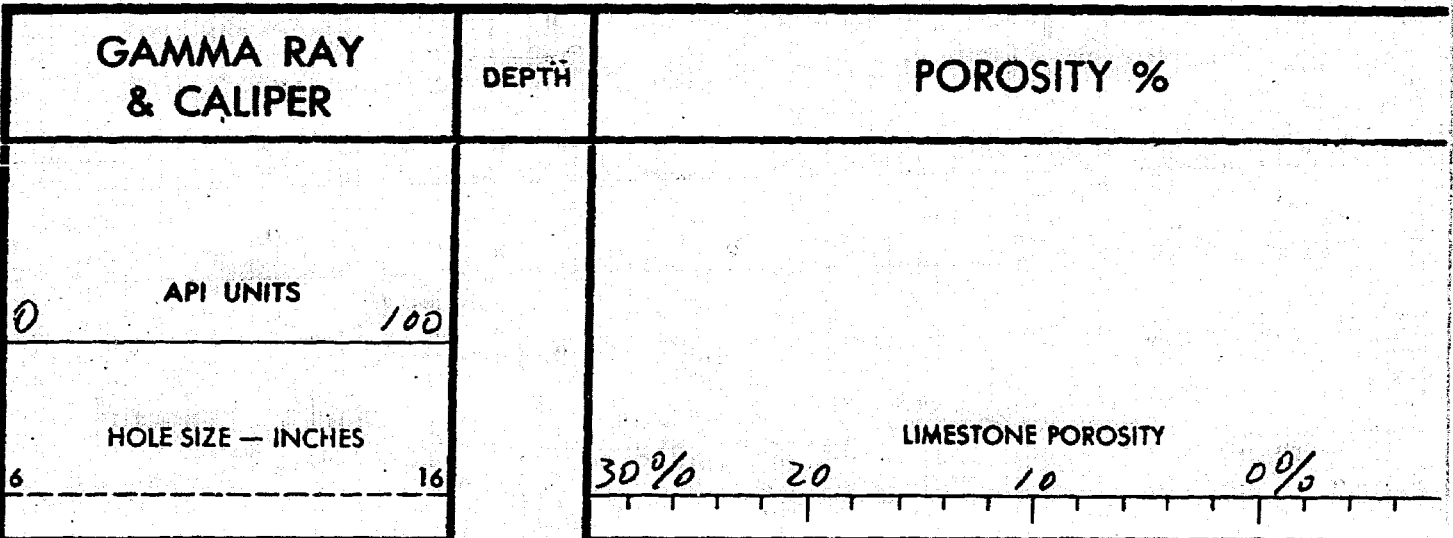
DATE: 1/28/81
FIELD/POOL: Tonawanda
LEASE/WELL #: Strange Federal #3
R.D.B. ZERO FT. ' ABOVE
BOTTOM HOLE ASSEMBLY:

WELL HISTORY

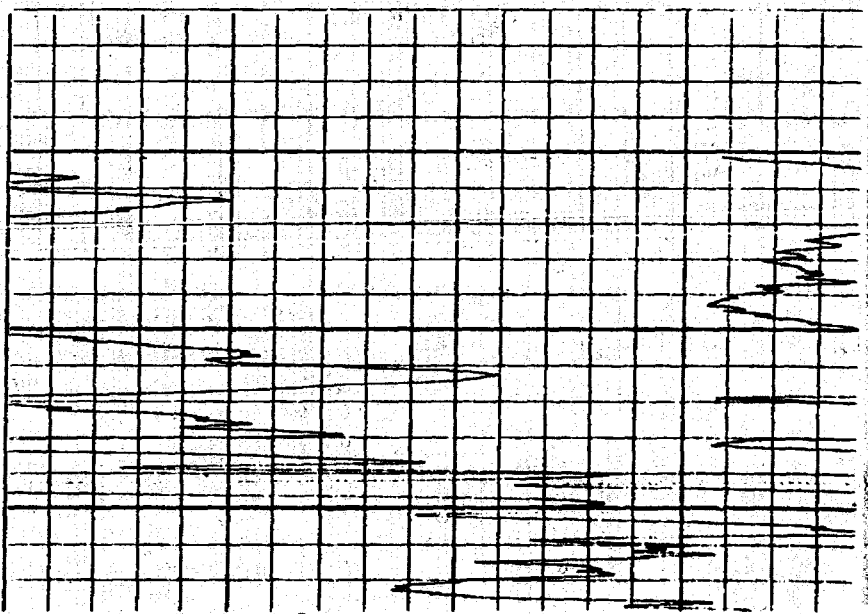
Sketch Done
Well Bore After
Conversion to S.W.D.

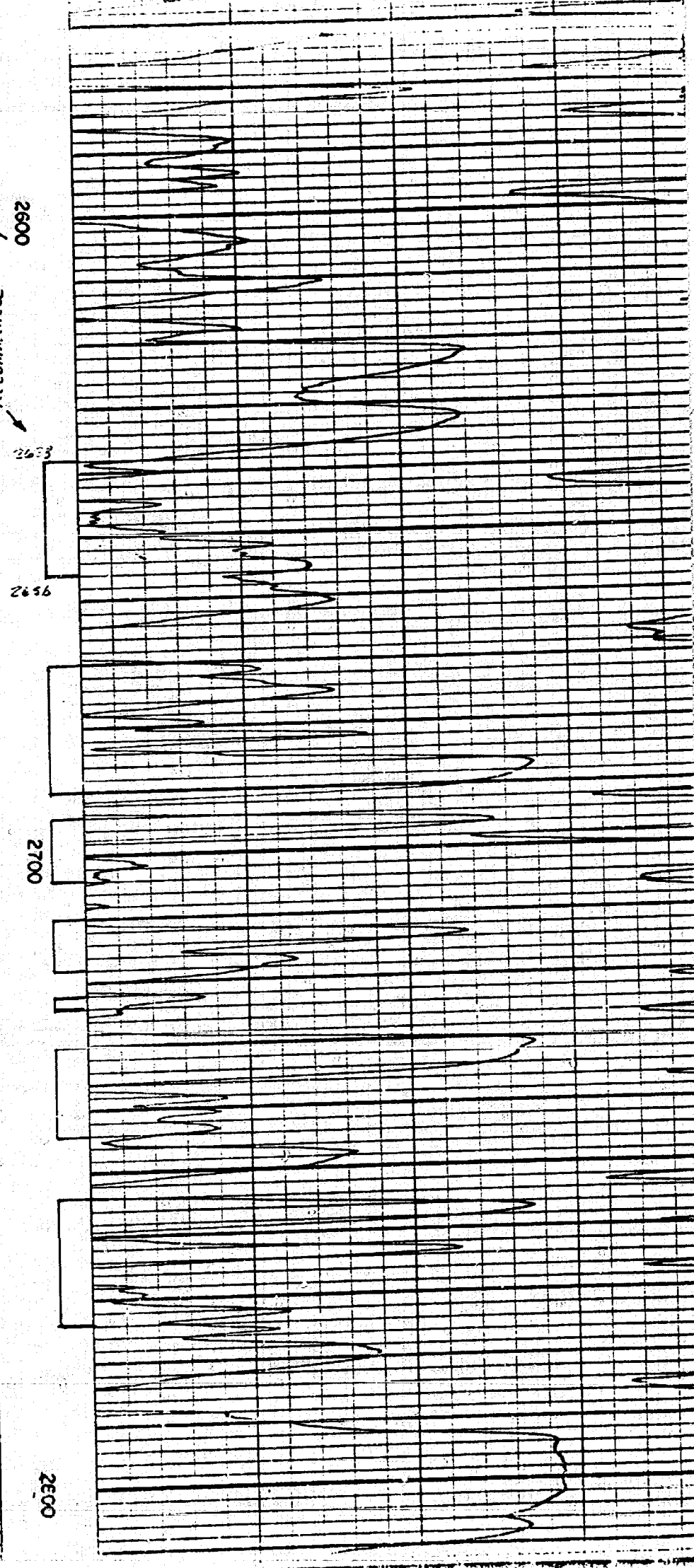
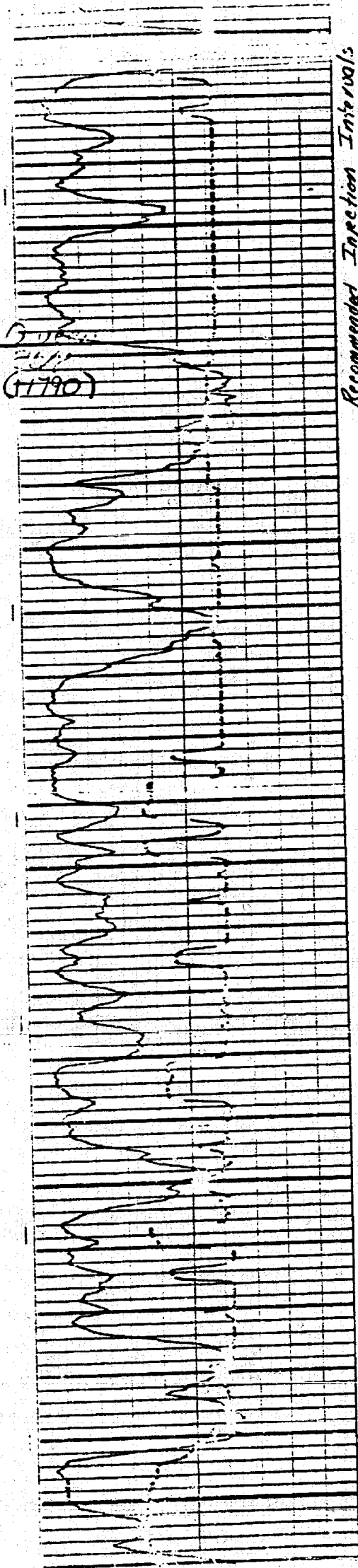
General Data			Equipment Data			Sidewall Neutron		
Run No.	1		Run No.	1				
Tool Model No.	1308		Log Type	N-FN				
Diam	3.625"		Tool Model No	2407				
Detect. Model No.	D6N3		Serial No.	24642				
Type	SLM+		Diam.	3.0"				
Length	6"		Detect. Model No.	D3H				
Dist. to N. Source	11'		Type	RCP				
Computer Data			Length	4"				
			Source Model No.	317RS				
			Serial No.	27935				
			Type	AmBe				
			Strength	4.5C				

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.I. Units/D
	From	To				Zero	Units/Div.	Scale				
1	4263	1652	REL	2	192	15.45	29%	30.0	2	800	0	10



1600
1700





Reference to
Dresser Atlas Sidewall Neutron / Gamma Ray
Stratigraphic Federal # 3 July 11, 1980



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR
LARRY KEHOE
SECRETARY

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-3434

March 30, 1981

Exxon Company, U.S.A.
P. O. Box 1600
Midland, Texas 79702

Re: Application for SWD
Exxon Strange Fed. Well No. 3
J. Section 25, Township 7
South, Range 31 East, Chaves
County, New Mexico

Gentlemen:

The Division has received the subject application.

Before we may process the application the following items must be completed, addressed or corrected:

- (1) It would appear that Yates Petroleum Company of Artesia is the offset operator to the North. Yates does not show on your list of operators notified of the application as required.
- (2) The data shown on the water analysis appears to have been reversed and the me/lb seen too high.
- (3) The tabular summary and schematics required by Memo 3-77 must be submitted. A copy of this memorandum is enclosed for your convenience.

Sincerely,

R. L. STAMETS
Technical Support Chief

RLS/og

OL: Opear

EXXON COMPANY, U.S.A.

POST OFFICE BOX 1600 • MIDLAND, TEXAS 79702

RECEIVED
MAR 30 1981
OIL CONSERVATION DIVISION
SANTA FE

PRODUCTION DEPARTMENT
MIDCONTINENT DIVISION
P.W. HENDERSON
OPERATIONS MANAGER

March 25, 1981

Application for Salt Water Disposal
Exxon Strange-Federal No. 3
Unit J, Sec. 25-7S-31E
Tomahawk Field
Chaves County, New Mexico

Case 7289

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

Attention Mr. Joe D. Ramey, Director

Gentlemen:

Administrative approval is respectfully requested to dispose of produced salt water into a non-productive formation through the subject well. In accordance with Rule 701-B and C, a copy of Form C-108, Application to Dispose of Salt Water by Injection into a Porous Formation, along with plat, log, produced water analysis and diagrammatic wellbore sketch, are attached.

The proposed disposal well was drilled for development in the San Andres formation but was unsuccessful in establishing commercial production. The proposed disposal zone is not productive of oil or gas within a two-mile radius of the disposal well.

Copies of the application have been sent to the surface owner and to each of the operators listed on Form C-108. Please advise if any additional information is necessary to process this application.

Yours very truly,

P.W. Henderson

P. W. Henderson

JKL:kb

Attachments

cc: Surface Owner
Offset Operators
B. J. Ingram

A DIVISION OF EXXON CORPORATION

3-77
water analysis
when wash out
Cm & Queen
water
Prod-Qn

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

Form C-108
Revised 5-1-69
MAR 30 1981
SANTA FE DIVISION

OPERATOR Exxon Corporation		ADDRESS P. O. Box 1600, Midland, Texas 79701	
LEASE NAME Strange Federal	WELL NO. 3	FIELD Tomahawk San Andres	COUNTY Chaves
LOCATION UNIT LETTER J ; WELL IS LOCATED 2100 FEET FROM THE South LINE AND 1980 FEET FROM THE East LINE, SECTION 25 TOWNSHIP 7-S RANGE 31-E NMPM.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	8 5/8	1649	850	To Surface	Circulate 175 sx to Surface
INTERMEDIATE					
LONG STRING	5 1/2	4288	1650	600' est.	
TUBING	2 7/8	4130	NAME, MODEL AND DEPTH OF TUBING PACKER Baker Lok Set @ 2600'		

NAME OF PROPOSED INJECTION FORMATION Queen	TOP OF FORMATION 2612	BOTTOM OF FORMATION 3251
--	---------------------------------	------------------------------------

IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing	PERFORATIONS OR OPEN HOLE? Perforations	PROPOSED INTERVAL(S) OF INJECTION 2638-56, 70-90, 94-704, 2710-18, 22-24, 30-44, 54-74
---	---	--

IS THIS A NEW WELL DRILLED FOR DISPOSAL? No	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Oil Production	HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? Yes/San Andres
---	---	--

LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH
3808-4227, Squeeze procedure will be initiated contingent w/NMOCC approval

DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 1635'	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 9540'
--	--	---

ANTICIPATED DAILY INJECTION VOLUME (BBL/S.) 150	MINIMUM 130	MAXIMUM 500	OPEN OR CLOSED TYPE SYSTEM Open	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Pressure	APPROX. PRESSURE (PSIG) Unknown
---	-----------------------	-----------------------	---	---	---

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 Unknown	ARE WATER ANALYSES ATTACHED? Yes
---	---------------------------------------	--	--

NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND)
Mays Jenkins; South Star Rt. - Elida, New Mexico

LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL
Harvey Yates Petroleum - West Bldg.; Midland, Texas 79701

Holly Energy, Inc. - 707 W. Indiana; Midland, Texas 79701

Sundance Oil Co. - Center Bldg. 1776 Lincoln St.; Denver, Colo. 80203

Union Oil Co. of Cal., 500 N. Marienfeld, Midland, TX 79701

Flag-Redfern Oil Co., Box 23, Midland, TX 79702

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.

J. K. Lytle
(Signature)

Division Staff Engineer

(Title)

3-13-81

(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.

WELLBORE SKETCH

DATE: 1/28/81

FIELD/POOL: Toma Anwa

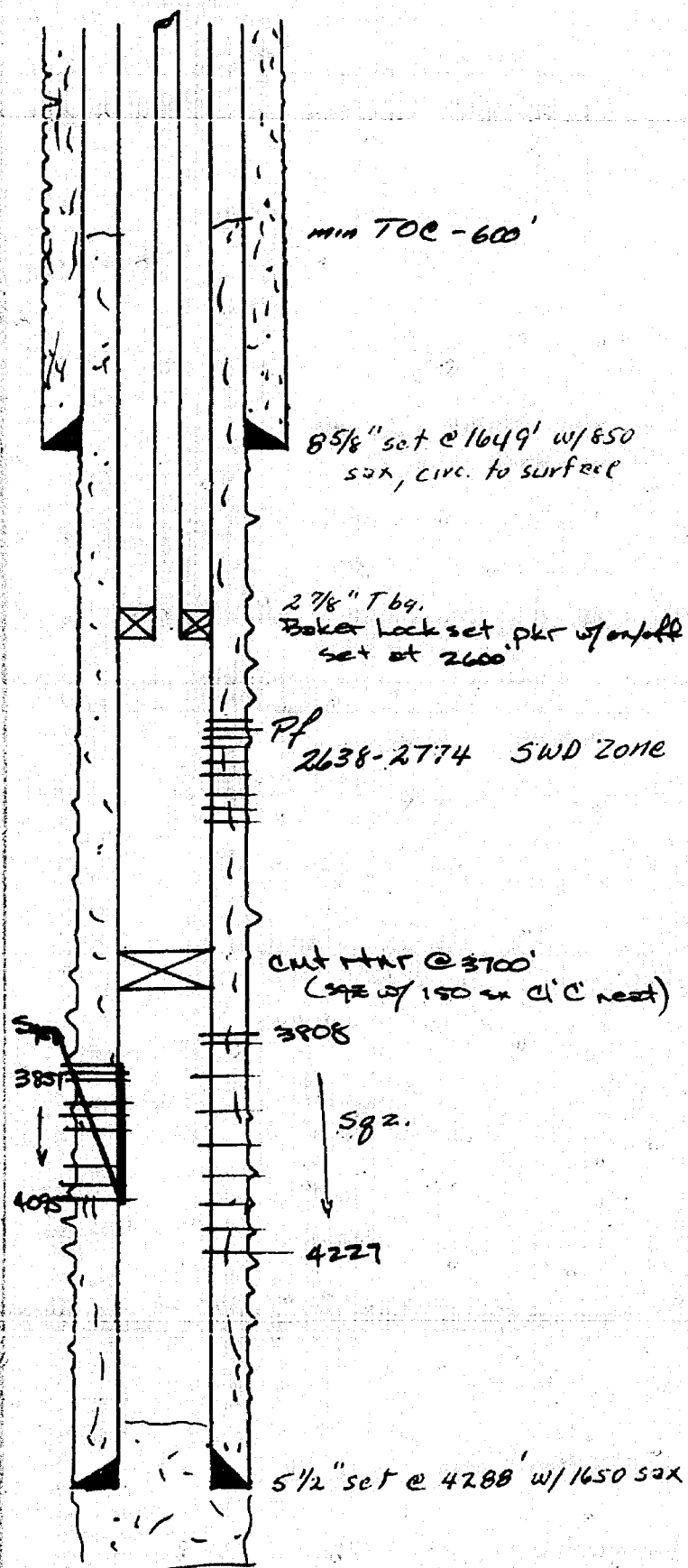
LEASE/WELL #: Stronge Federal #3

R.D.B. ZERO FT. ' ABOVE

BOTTOM HOLE ASSEMBLY:

WELL HISTORY

SKETCH Denotes
WELL BORE AFTER
CONVERSION TO S.W.D.



FOLD HERE: _____

[illegible]

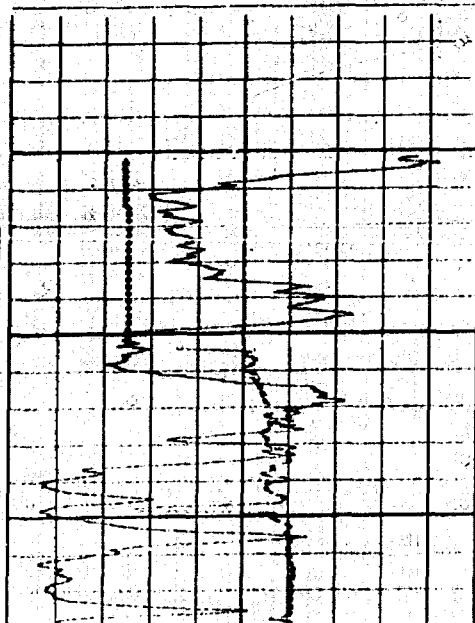
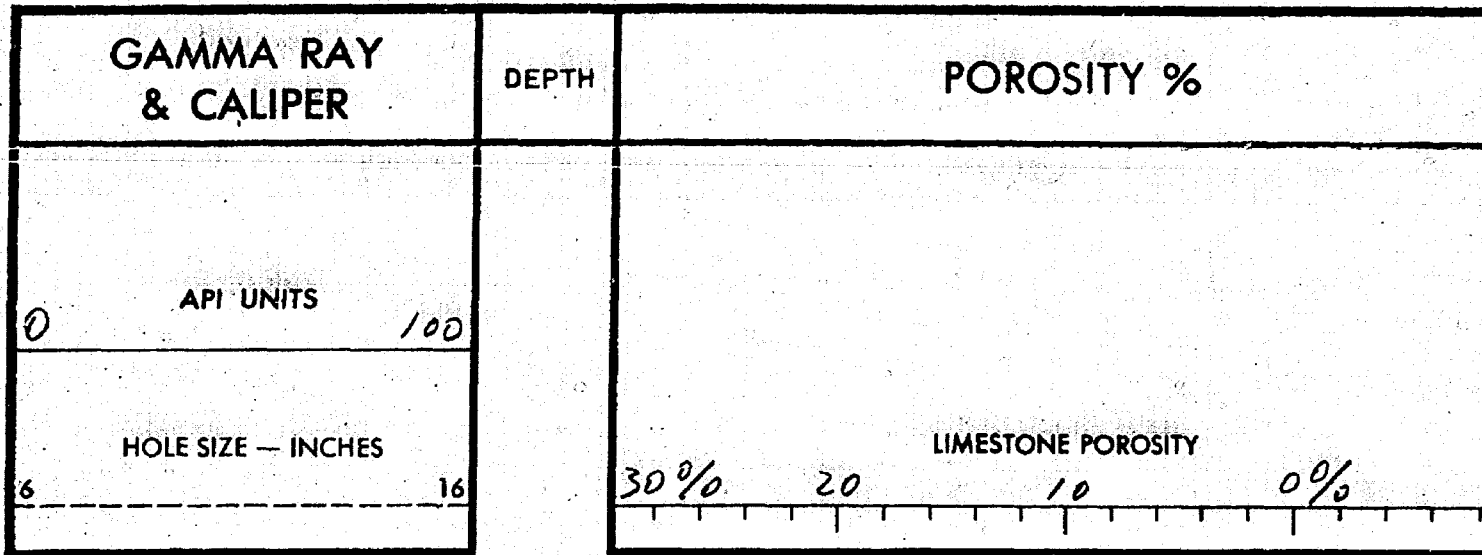
2'18 D.H Limestone	Series No.	1308	2402
	Run No.	1	1
	S.O.	22537	
Caliper maximum 12.25"	Tool No.	32021	24642
	Elec. No.		
	Panel No.	33022	33022

Gamma Ray		Equipment Data		Sidewall Neutron	
Run No.		Run No.			
Tool Model No.	1303	Log Type		1	
Diam.	3.625"	Tool Model No.		N-FN	
Detect. Model No.	06023	Serial No.		2407	
Type	SCW+	Diam.		3.0"	
Length	6'	Detect. Model No.		0341	
Dist to N. Source	11'	Type		PCPP	
		Length		499	
	Computer Data	Source Model No.		317R5	
		Serial No.		22935	
		Type		AmBe	
		Strength		115	

General			Sidewall Neutron				Gamma Ray			
Run No.	Depths		Speed Ft./Min.	T.C. Sec.	Sens. Settings	Porosity		T.C. Sec.	Sens. Settings	Zero Div. Loc.
	From	To				Zero	Units/Div.			
1	4263	1652	REL	2	19.2	2%	15.45	2	800	0

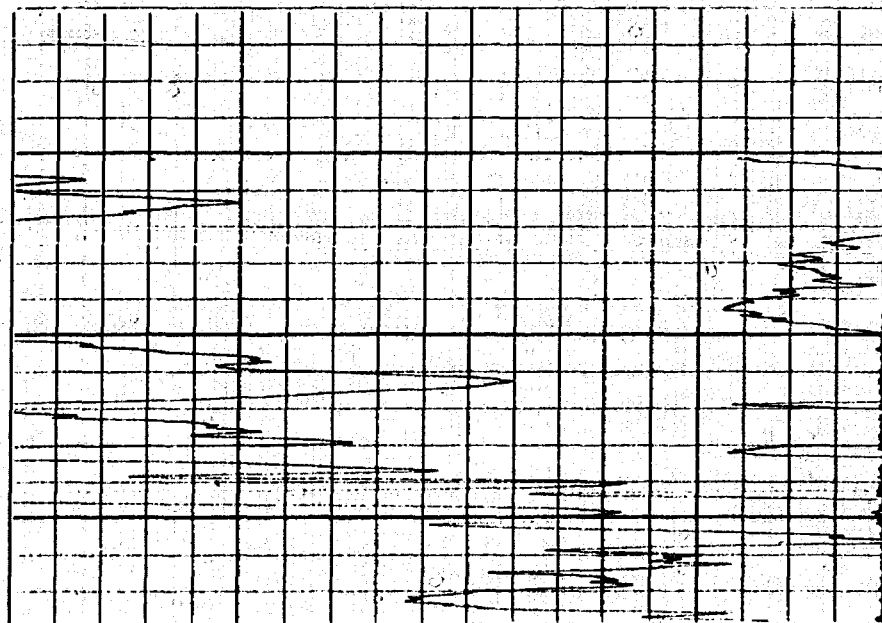
Gamma Ray				Equipment Data				Sidewall Neutron			
Run No.	1			Run No.	1			Run No.	1		
Tool Model No.	1308			Log Type	N-FN			Tool Model No.	2407		
Diam	3.625"			Tool Model No.	2407			Serial No.	24642		
Detect. Model No.	D6N3			Diam.	3.0"			Detect. Model No.	D3H		
Type	SLINT			Type	PCPP			Type	PCPP		
Length	6"			Length	4"			Length	4"		
Dist. to N. Source	11'			Source Model No.	S17R5			Source Model No.	S17R5		
Computer Data				Serial No.	27935			Serial No.	27935		
				Type	AmBe			Type	AmBe		
				Strength	4.5C			Strength	4.5C		

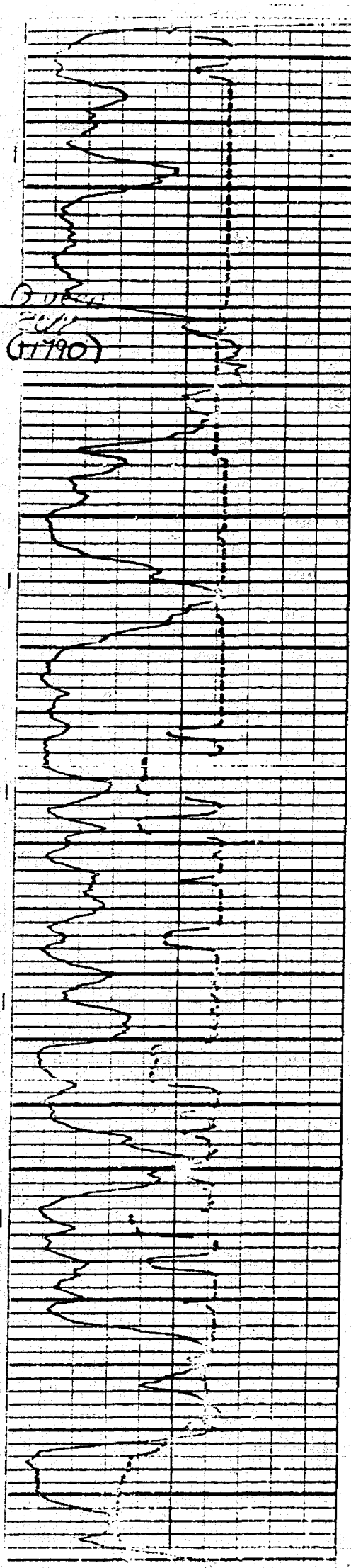
Logging Data												
General				Sidewall Neutron					Gamma Ray			
Run No.	Depths		Speed Ft./Min.	T.C. Sec.	Sens. Settings	Porosity			T.C. Sec.	Sens. Settings	Zero Div. L or R	API G.F. Units/D.
	From	To				Zero	Units/Div.	Scale				
1	4263	1652	REL	2	192	15.15	2%	30.0	2	800	0	10



1600

1700





Interval
Injection
Recovery

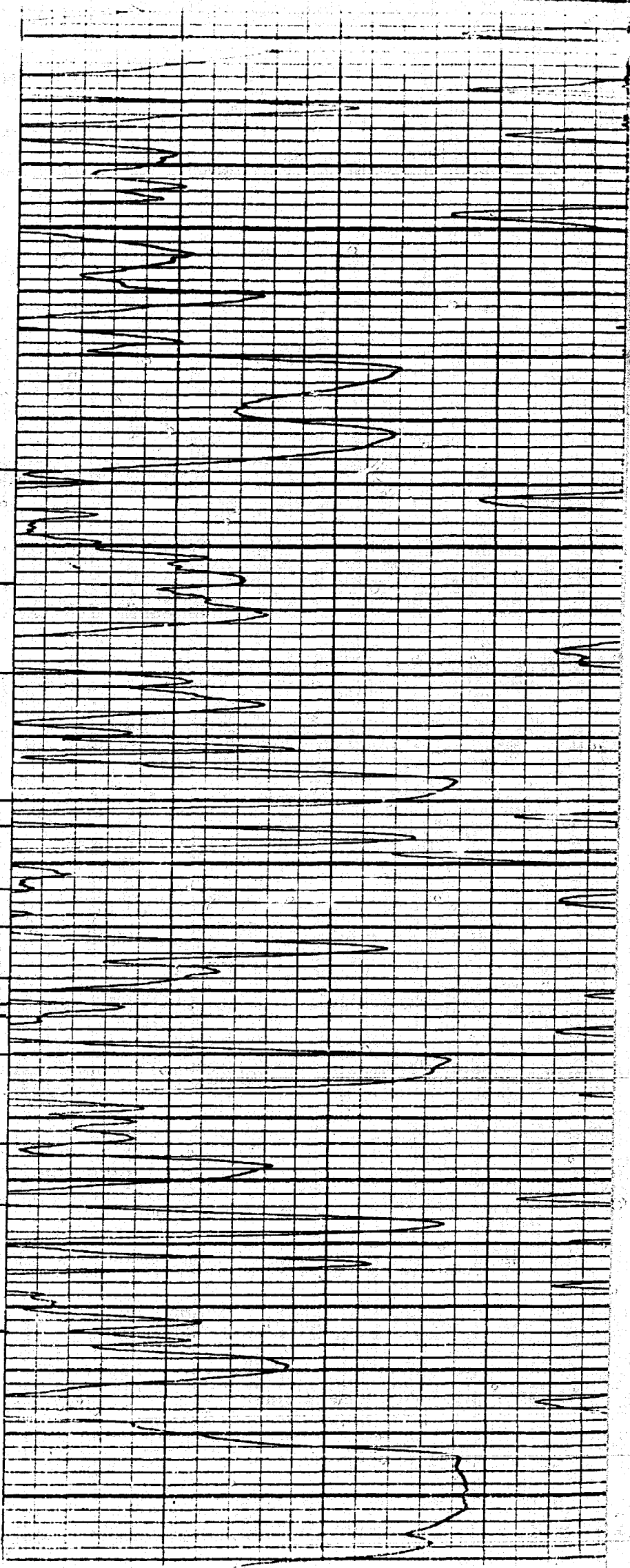
2600

2638

2652

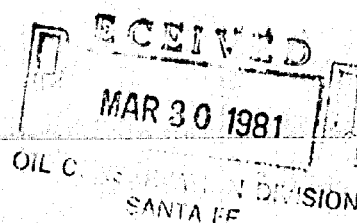
2700

2800



Reference to
Dresser Atlas Sidewall Neutron / Gamma Ray
Stratigraphic Federal #3 July 1, 1980

EXXON COMPANY, U.S.A.
POST OFFICE BOX 1600 • MIDLAND, TEXAS 79702



PRODUCTION DEPARTMENT
MIDCONTINENT DIVISION
P.W. HENDERSON
OPERATIONS MANAGER

March 25, 1981

Application for Salt Water Disposal
Exxon Strange-Federal No. 3
Unit J, Sec. 25-7S-31E
Tomahawk Field
Chaves County, New Mexico

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

Attention Mr. Joe D. Ramey, Director

Gentlemen:

Administrative approval is respectfully requested to dispose of produced salt water into a non-productive formation through the subject well. In accordance with Rule 701-B and C, a copy of Form C-108, Application to Dispose of Salt Water by Injection into a Porous Formation, along with plat, log, produced water analysis and diagrammatic wellbore sketch, are attached.

The proposed disposal well was drilled for development in the San Andres formation but was unsuccessful in establishing commercial production. The proposed disposal zone is not productive of oil or gas within a two-mile radius of the disposal well.

Copies of the application have been sent to the surface owner and to each of the operators listed on Form C-108. Please advise if any additional information is necessary to process this application.

Yours very truly,


P. W. Henderson

JKL:kb
Attachments
cc: Surface Owner
Offset Operators
B. J. Ingram

A DIVISION OF EXXON CORPORATION

RECEIVED
MAR 30 1968
Form C-100
Revised 3-1-68

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

OPERATOR Exxon Corporation		ADDRESS P. O. Box 1600, Midland, Texas 79701	
LEASE NAME Strange Federal	WELL NO. 3	FIELD Tomahawk San Andres	COUNTY Chaves
LOCATION UNIT LETTER J ; WELL IS LOCATED 2100 FEET FROM THE South LINE AND 1980 FEET FROM THE East LINE, SECTION 25 TOWNSHIP 7-S RANGE 31-E NMPM.			

CASING AND TUBING DATA					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	8 5/8	1649	850	To Surface	Circulate 175 sx to Surface
INTERMEDIATE					
LONG STRING	5 1/2	4288	1650	600' est.	
TUBING	2 7/8	4130	NAME, MODEL AND DEPTH OF TUBING PACKER Baker Lok Set @ 2600'		

NAME OF PROPOSED INJECTION FORMATION Queen		TOP OF FORMATION 2618	BOTTOM OF FORMATION 3251
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLES Perforations	PROPOSED INTERVALS OF INJECTION 2638-56, 70-90, 94-104, 2710-18, 22-24, 30-44, 54-74
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Oil Production		HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? Yes/San Andres

LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH 3808-4227, Squeeze procedure will be initiated contingent w/NMOCC approval					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 1635'		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 9540'	
ANTICIPATED DAILY INJECTION VOLUME (BBL/D) 150	MINIMUM 130	MAXIMUM 500	OPEN OR CLOSED TYPE SYSTEM Open	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Pressure	APPROX. PRESSURE (PSIG) Unknown
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 Unknown	ARE WATER ANALYSES ATTACHED? Yes

NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) Mays Jenkins; South Star Rt. - Elida, New Mexico			
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL			
Harvey Yates Petroleum - West Bldg.; Midland, Texas 79701			
Holly Energy, Inc. - 707 W. Indiana; Midland, Texas 79701			
Sundance Oil Co. - Center Bldg. 1776 Lincoln St.; Denver, Colo. 80203			
Union Oil Co. of Cal., 500 N. Marienfeld, Midland, TX 79701			
Flag-Redfern Oil Co., Box 23, Midland, TX 79702			

HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?	SURFACE OWNER Yes	EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL Yes
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-8)?	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.

[Signature]
(Signature)

Division Staff Engineer
(Title)

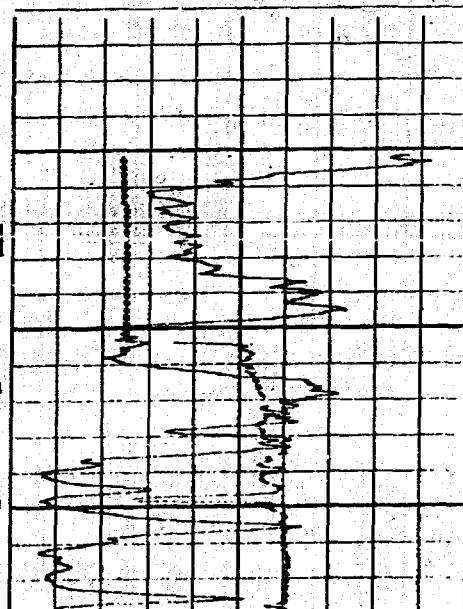
3-13-68
(Date)

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.

Gamma Ray		Equipment Data		Sidewall Neutron	
No.	1	Run No.	1		
Tool Model No.	1308	Log Type	N-FN		
Diam.	3.625"	Tool Model No.	2407		
Detect. Model No.	D6N3	Serial No.	24642		
Type	SLIM+	Diam.	3.0"		
Length	6"	Detect. Model No.	D3H		
Dist. to N. Source	11'	Type	PCP		
		Length	4"		
Computer Data		Source Model No.	S17R5		
		Serial No.	27935		
		Type	AmBe		
		Strength	4.5C		

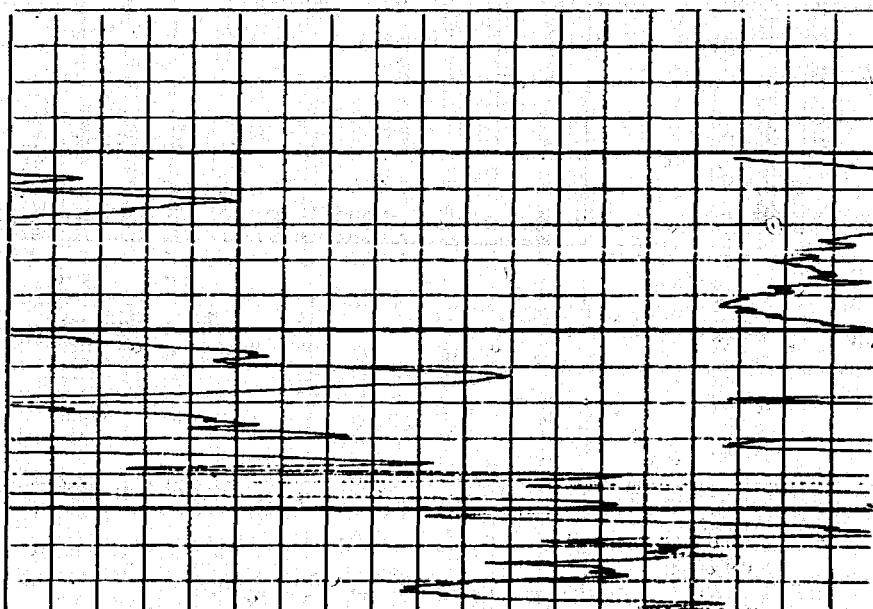
Logging Data												
General				Sidewall Neutron					Gamma Ray			
Run No.	Depths		Speed Ft./Min.	T.C. Sec.	Sens. Settings	Porosity			T.C. Sec.	Sens. Settings	Zero Div L or R	API G.I. Units/D
	From	To				Zero	Units/Div.	Scale				
1	4263	1652	REL	2	192	15.45	2%	30.0	2	800	R	10

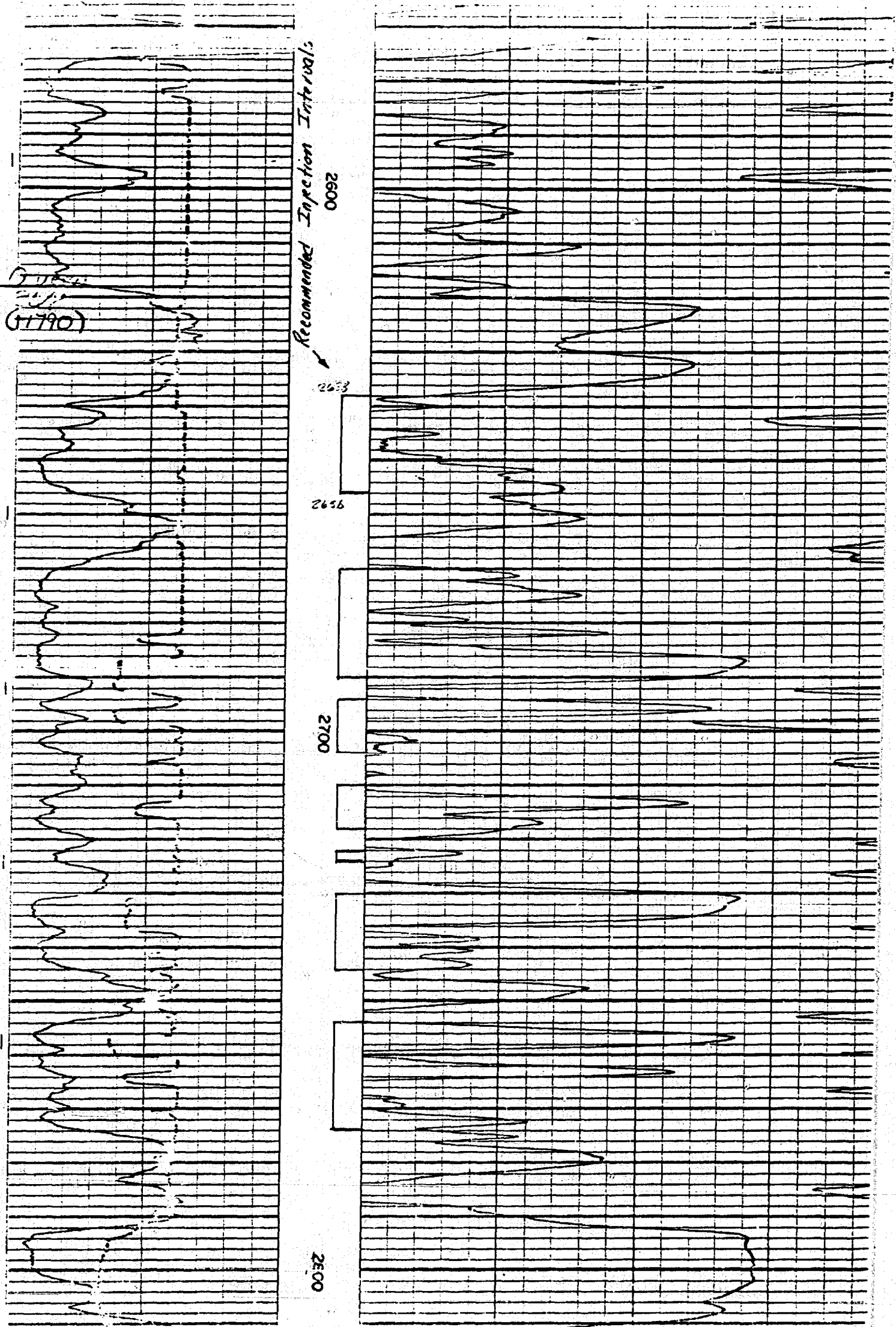
GAMMA RAY & CALIPER		DEPTH	POROSITY %
API UNITS 0 100			
HOLE SIZE — INCHES 6 16			
			LIMESTONE POROSITY 30% 20 10 0%



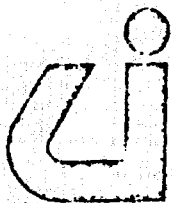
1600

1700





Reference to
Dresser Atlas Sidewall Neutron / Gamma Ray
Stratigraphic Correlation # 3 July 1, 1980



UNICHEM
INTERNATIONAL

Home Office 707 N. Leech, P. O. Box 1499 / Hobbs, NM 88240 / Ph. 505 393-7751, TWX 910/986-0010

WF

Company Exxon

Field _____

Lease _____ Sampling Date 7-14-80

Type of Sample Feedwater Strange Battery Initial water in R

WATER ANALYSIS

IONIC FORM	me/l *	mg/l *
Calcium (Ca++)	1710.00	34200
Magnesium (Mg++)	1030.00	12360
Sodium (Na+) (CALCULATED)	3220.61	74042
Iron (Total)		253
Bicarbonate (HCO ₃ -)	0	0
Carbonate (CO ₃ -)	Not	Found
Hydroxide (OH-)	Not	Found
Sulphate (SO ₄ -)	10.41	500
Chloride (Cl-)	5950.20	211000
Total Dissolved Solids		332102
4.90 pH @ 68 °F		
Dissolved Solids on Evap. at 103° - 105° C		
Hardness as CaCO ₃	2740.00	137000
Carbonate Hardness as CaCO ₃ (temporary)	0	0
Non-Carbonate Hardness as CaCO ₃ (permanent)	2740.00	137000
Alkalinity as CaCO ₃	0	0
Specific Gravity @ 68° F 1.201		

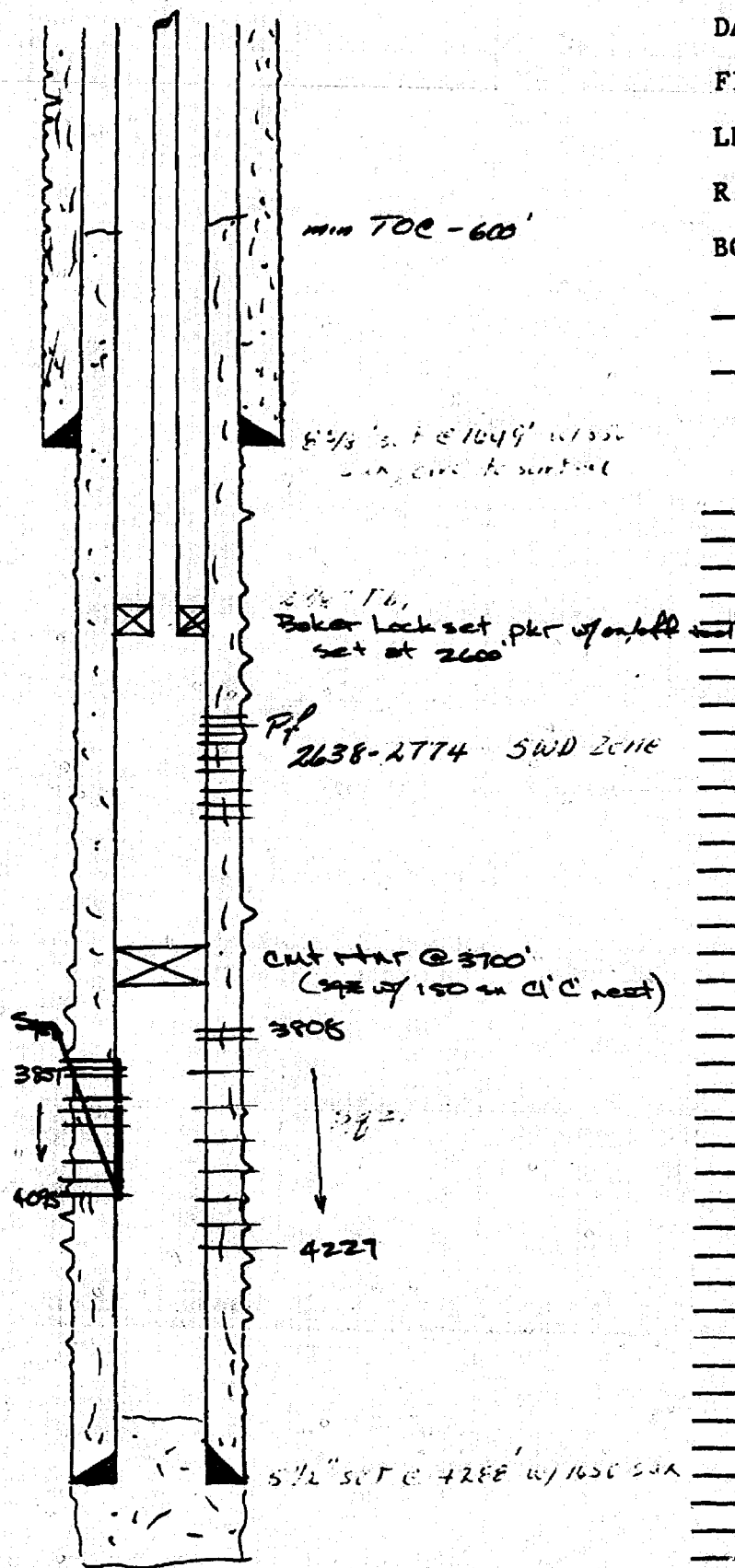
* mg/l = milligrams per Liter

* me/l = milliequivalents per Liter

CaCO₃ S.I. negative @ 86°F (0.39)

CaSO₄ S.I. positive (1.52)

WELLBORE SKETCH



DATE: 1/28/81
FIELD/POOL: Tonahawa
LEASE/WELL #: Strong Federal #3
R.D.B. ZERO FT. ' ABOVE
BOTTOM HOLE ASSEMBLY:

WELL HISTORY

Sketch Done
WELL BORE AFTER
CONVERSION TO S.W.D.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved
Budget Bureau No. 42-8355-1

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1. TYPE OF WELL: Oil ☒ Gas ☐ Dry ☐ Other ☐		2. TYPE OF COMPLETION: New Well ☒ Work Over ☐ Deep- en ☐ Plug Back ☐ Divert ☐ Other ☐		3. NAME OF OPERATOR Exxon Corporation		4. ADDRESS OF OPERATOR Box 1600, Midland, Texas 79702		5. LEASE DESIGNATION AND SERIAL NO. NM 15677A									
6. LOCATION OF WELL (Report location clearly and in accordance with any State requirements): At surface 660' FSL and 1980' FSL of Section		7. COST AGREEMENT NAME Strange Federal		8. FARM OR LEASE NAME Tomahawk San Andres		9. WELL NO. 2		10. FIELD AND POOL, OR WILDCAT Tomahawk San Andres									
11. DATE SURFED 5-12-80		12. DATE T.D. REACHED 5-28-80		13. DATE COMPL. (Ready to prod.) 6-14-80		14. ELEVATIONS (SP. GR. RT. OR, ETC.) 4422 KB		15. DEPT. CEMENTHEAD —									
16. TOTAL DEPTH, MD & TVD 4305		17. PLUG BACK T.D. MD & TVD 4248		18. IF MULTIPLE COMPL. HOW MANY? —		19. INTERVALS DRILLED BY 10-4305		20. CABLE TOOLS —									
21. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 3866-4129-68 shots		22. WAS DIRECTIONAL SURVEY MADE NO		23. TYPE ELECTRIC AND OTHER LOGS RUN GR-CAL-SNP GR-DLL-MICRO SFL		24. WAS WELL CORRED NO											
25. CASING RECORD (Report all strings set in well)																	
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE		CEMENTING RECORD		AMOUNT FILLED							
8-5/8"		24#		1624		12-1/4"		1850 SX		—							
5-1/2"		14#		4299		6-1/4"		1650 SX		—							
26. LINER RECORD										27. TUBING RECORD							
SIZE		TOP (MD)		BOTTOM (MD)		BACKS CEMENT*		SCREEN (MD)		SIZE		DEPTH SET (MD)		PACKER SET (MD)			
										2-7/8"		4069		NONE			
28. PERFORATION RECORD (Interval, size and number) 3866-4129-68 shots										29. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.							
										DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED					
										3866-4129		13300 Gal. 15% HCL					
												stabilize gelled acid					
30. PRODUCTION																	
DATE FIRST PRODUCTION 6-8-80		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Pump				WELL STATUS (Producing or shut-in) S.I.											
DATE OF TEST 6-14-80		HOURS TESTED 24		CHOKE SIZE —		PROD'N. FOR TEST PERIOD —		OIL—BBL. 113		GAS—MCF. 73		WATER—BBL. 100		GAS-OIL RATIO 646			
FLOW, DURING PERIOD —		CASING PRESSURE —		CALCULATED 24-HOUR RATE —		OIL—BBL. 113		GAS—MCF. 73		WATER—BBL. 100		OIL GRAVITY-API (COMM.) 23.5					
31. DESCRIPTION OF GAS (Field, used for fuel, vented, etc.) Vented										TEST WITNESSED BY —							
32. LIST OF ATTACHMENTS																	
33. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records																	
SIGNED C. J. Jackson		TITLE UNIT HEAD				DATE 6-18-80											

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

Form 9-62
(May 1963)UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPPLICATE
(Other instructions on reverse side)Form approved
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

NM 15677A

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		7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR Exxon Corporation		8. FARM OR LEASE NAME Strange Federal
3. ADDRESS OF OPERATOR Box 1600, Midland, Texas 79702		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' FSL and 1980' FEL of Section		10. FIELD AND POOL, OR WILDCAT Tomahawk San Andres
11. SEC., T., R., N., OR S.E. AND SUBST. OR AREA Sec. 25, T-7-S, R-31-E		12. COUNTY OR PARISH Chaves
13. STATE New Mexico		
14. PERMIT NO.	15. ELEVATION (Show whether at top or base) 4408.1 GR	

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

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

(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.) *

Drilled 6-1/4" hole to 4305 T.D.

Ran 102 jts. 5-1/2" csg. set at 4299'. Cmt w/1400 sx Howco Lite w/10# salt per sack, tailed w/250 sx class "C" Posmix 50/50, w/6# salt per sack, POB 1:20 p.m. 5-29-80, 85 sx circ to pit.

Tested csg w/1500-held o.k. 5-31-80.

Preparing to perforate.

RECEIVED

JUL 3 1980

O. C. D.
ARTESIA, OFFICE

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

SIGNED C. J. Jack TITLE Unit Head DATE 6-17-80

(This space for Federal or State office use)

APPROVED BY PETER W. CLESTER TITLE ACTING DISTRICT ENGINEER DATE JUL 2 1980
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR
LARRY KEHOE
SECRETARY

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-2434

March 30, 1981

Exxon Company, U.S.A.
P. O. Box 1600
Midland, Texas 79702

Re: Application for SWD
Exxon Strange Fed. Well No. 3
J. Section 25, Township 7
South, Range 31 East, Chaves
County, New Mexico

Gentlemen:

The Division has received the subject application.

Before we may process the application the following items must be completed, addressed or corrected:

- (1) It would appear that Yates Petroleum Company of Artesia is the offset operator to the North. Yates does not show on your list of operators notified of the application as required.
- (2) The data shown on the water analysis appears to have been reversed and the me/lb seen too high.
- (3) The tabular summary and schematics required by Memo 3-77 must be submitted. A copy of this memorandum is enclosed for your convenience.

Sincerely,

R. L. STAMETS
Technical Support Chief

RLS/og

Oscar

FILE	
U.S.S.	
LAND OFFICE	
TRANSPORTER	OIL GAS
OPERATOR	
PRODUCTION OFFICE	

AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

RECEIVED
JUL 02 1980
OIL CONSERVATION COMMISSION
SANITAFE

Operator
Exxon Corporation

Address
Box 1600, Midland, Texas 79702

Reason(s) for filing (if check proper box)

New Well ☒
Recompletion ☐
Change in Ownership ☐

Change in Transporter of
Oil ☐
Casinghead Gas ☐

Dry Gas ☐
Condensate ☐

Order (Please specify) ☐ and ☐ ☒ ☐
EXCEPTION TO RULE 111

If change of ownership give name and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Lease Name Strange Federal	Well No. 2	Pool Name, including Formation Tomahawk San Andres	Kind of Lease NML, Federal NML	Le NMI
Location Unit Letter <u>0</u> , <u>660</u> Feet From The <u>South</u> Line and <u>1980</u> Feet From The <u>East</u>				
Line of Section <u>25</u> Township <u>14-S</u> Range <u>31-E</u> , NMPM, Chaves				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☒ or Condensate ☐ Koch Oil Company	Address (Give address to which approved copy of this form is to be sent) Box 1558, Breackenridge, Texas 76024
Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas ☐ NONE	Address (Give address to which approved copy of this form is to be sent)
If well produces oil or liquids, give location of tanks.	Is gas actually connected? When

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

Designate Type of Completion - (X) Oil Well ☒ Gas Well ☐ New Well ☒ Workover ☐ Deepen ☐ Plug Back ☐ Same Hc's'v. D.	Date Spudded 5-12-80	Date Compl. Ready to Prod. 6-14-80	Total Depth 4305'	P.B.T.D. 4248'
Elevations (DF, RKB, RT, CR, etc.) 4408.1	Name of Producing Formation San Andres	Top Oil/Gas Pay 3866	Tubing Depth	Depth Casing Shoe 4299
Perforations 3866-4129-68 shots				

TUBING, CASING, AND CEMENTING RECORD			
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
12-1/4"	8-5/8"	1624	1850 SX
6-1/4"	5-1/2"	4299	1650 SX
	2-7/8"	4069	---

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of lead oil and must be equal to or exceedable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks 6-8-80	Date of Test 6-14-80	Producing Method (Flow, pump, gas lift, etc.) Pump
Length of Test 24	Tubing Pressure	Casing Pressure
Actual Prod. During Test 233	Oil-Bbls. 113	Water-Bbls. 100
		Gas-MCF 73

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MCF	Gravity of Condensate
Testing Method (plug, back pt.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

C. J. Jech
(Signature)
Unit Head
(Title)
6-18-80
(Date)

OIL CONSERVATION COMMISSION
JUN 30 1980
APPROVED
BY John A. Thompson
Geologist
TITLE

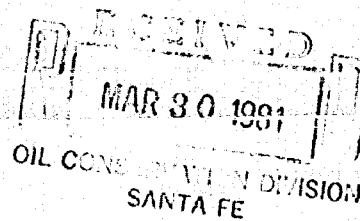
This form is to be filed in compliance with RULE 111
If this is a request for allowable for a newly drilled well, this form must be accompanied by a tabulation of the tests taken on the well in accordance with RULE 111.
All sections of this form must be filled out completely this on new and re-completed wells.
Fill out only Sections I, II, III, and VI for change in well name or number, or transporter or other such change of

EXXON COMPANY, U.S.A.

POST OFFICE BOX 1600 • MIDLAND, TEXAS 79702

PRODUCTION DEPARTMENT
MIDCONTINENT DIVISION

P. W. HENDERSON
OPERATIONS MANAGER



March 25, 1981

Application for Salt Water Disposal
Exxon Strange-Federal No. 3
Unit J, Sec. 25-7S-31E
Tomahawk Field
Chaves County, New Mexico

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

Attention Mr. Joe D. Ramey, Director

Gentlemen:

Administrative approval is respectfully requested to dispose of produced salt water into a non-productive formation through the subject well. In accordance with Rule 701-B and C, a copy of Form C-108, Application to Dispose of Salt Water by Injection into a Porous Formation, along with plat, log, produced water analysis and diagrammatic wellbore sketch, are attached.

The proposed disposal well was drilled for development in the San Andres formation but was unsuccessful in establishing commercial production. The proposed disposal zone is not productive of oil or gas within a two-mile radius of the disposal well.

Copies of the application have been sent to the surface owner and to each of the operators listed on Form C-108. Please advise if any additional information is necessary to process this application.

Yours very truly,

P. W. Henderson
P. W. Henderson

JKL:kb

Attachments

cc: Surface Owner
Offset Operators
B. J. Ingram

A DIVISION OF EXXON CORPORATION

NEW MEXICO OIL CONSERVATION COMMISSION

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

OPERATOR Exxon Corporation		ADDRESS P. O. Box 1600, Midland, Texas 79701	
LEASE NAME Strange Federal	WELL NO. 3	FIELD Tomahawk San Andres	COUNTY Chaves
LOCATION UNIT LETTER J , WELL IS LOCATED 2100 FEET FROM THE South LINE AND 1980 FEET FROM THE East LINE, SECTION 25 TOWNSHIP 7-S RANGE 31-E NMPM.			

CASING AND TUBING DATA					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	8 5/8	1649	850	To Surface	Circulate 1/5 sx to Surface
INTERMEDIATE					
LONG STRING	5 1/2	4288	1650	600' est.	
TUBING	2 7/8	4130	NAME, MODEL AND DEPTH OF TUBING PACKER Baker Lok Set @ 2600'		

NAME OF PROPOSED INJECTION FORMATION Queen		TOP OF FORMATION 2618	BOTTOM OF FORMATION 3251
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLES Perforations	PROPOSED INTERVALS OF INJECTION 2638-56, 70-90, 94-704, 2710-18, 22-24, 30-44, 54-74
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Oil Production		HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? Yes/San Andres

LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH 3808-4227, Squeeze procedure will be initiated contingent w/NMOCC approval					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 1635'		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 9540'	
ANTICIPATED DAILY INJECTION VOLUME (BBL/S.) 150	MINIMUM 130	MAXIMUM 500	OPEN OR CLOSED TYPE SYSTEM Open	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Pressure	APPROX. PRESSURE (PSIG) Unknown
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 Yes	NATURAL WATER IN DISPOSAL ZONE Unknown	ARE WATER ANALYSES ATTACHED? Yes

NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) Mays Jenkins; South Star Rt. - Elida, New Mexico			
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL			
Harvey Yates Petroleum - West Bldg.; Midland, Texas 79701			
Holly Energy, Inc. - 707 W. Indiana; Midland, Texas 79701			
Sundance Oil Co. - Center Bldg. 1776 Lincoln St.; Denver, Colo. 80203			
Union Oil Co. of Cal., 500 N. Marienfeld, Midland, TX 79701			
Flag-Redfern Oil Co., Box 23, Midland, TX 79702			
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?	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)?	PLAN 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.

J. K. Light Division Staff Engineer 3-13-81
(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.

EXXON COMPANY U.S.A.
TOMAHAWK FIELD AREA
CHAVES CO., NEW MEXICO

NOTE: All wells within two-mile radius of EXXON'S STRANGE-FEDERAL NO.3 are producing from the San Andres.

State		T.R. Southard, Est.	
Blair Expl. et al 3/4 J. Wiet, et al 8 1 83 18842	Yates Pet. 10 1 85 LG 3034 3125	50 South Ford, et al	R.W. Hanagan 10 30 85
U.S.	State	Magg South ard	Kathleen Southard Cora Southard
Yates Pet. 10 1 85 LG 3034 3125	Blair Expl. et al 3/4 J. Wiet, et al 8 1 83 18842	Flag Redfern et al 5 30 85	HE Yates 12 5 82 9 10 J. Collier Flag Redfern et al 8 12 80 8 11 80 8 8 80 7 24 80 E. M. Jones, et al
31 State	U.S.	Pearl Southard	Flag Redfern et al 8 12 80 8 11 80 8 8 80 7 24 80 E. M. Jones, et al
Flag Redfern et al HBP 15677	Flag Redfern et al 5 30 85	Amoco 3418	HE Yates 8 12 80 19446 Flag Redfern et al 8 1 82 15677
22	Flag Redfern et al Amoco Fed.	SA Disc	J.S.
T	U.S.	Pearl Southard	J.S.
7 5	Flag Redfern et al 18637	Flag Redfern et al	Foye Booher, M.I.
"Hahn-Fed"	27	26	Flag Redfern et al 8 12 80 (Amoco) 34 8
Flag Redfern et al 15677	"Hahn-Fed" U.S.	U.S.	U.S.
Amoco 046153	Franklin, Aston, E. Fair (x 1st man F) Flag Redfern Booher Foye Booher, M.I. T.R. Southard	35	34
2	Miller-Fed U.S.	SA Disc P57	Miller-Fed U.S.
Sundance HBP 15015	Sundance Yates 3118 KGS 1176 10 1 83 1919	Union 8 1 83 LG 1289 8 83 Coveless 10 10 83	Union 8 1 83 LG 1289 8 83 Holly Energy et al (Abby Corp. E) Westn. Res. et al LG 1280
Phillips 10 1 83 1919	Phillips 10 1 83 1919	Atlantic State 104 25 10 12 5 65	Union 8 1 83 LG 1289 9 12 Coveless, Jr. 3/4 10 10 83
H.L. Brown Jr Atl. Fed. 103920 10 10 83	H.L. Brown Jr Atl. Fed. 103920 10 10 83	Union 8 1 83 LG 1289 9 12	Union 8 1 83 LG 1289 9 12



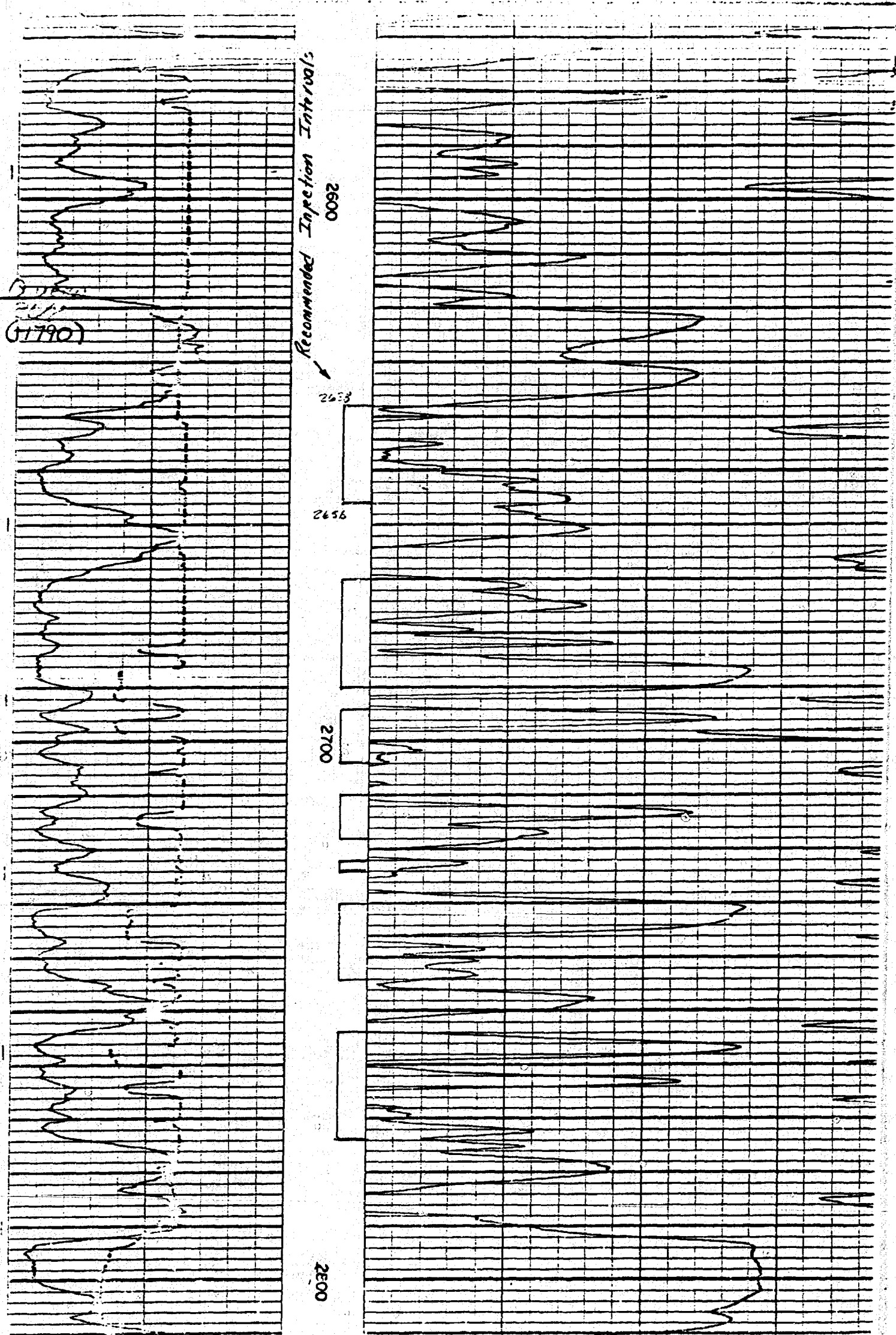
Videwall Neutron Gamma Ray

FILE NO.	1	
COMPANY	Exxon Co. USA	
WELL	Strange Federal #3	
FIELD	Tombahawk	
COUNTY	Chaves STATE New Mexico	
LOCATION	2100' FSL - 1980' FEL	
SEC	25 TWP	7-S RGE 35-E
Permanent Datum	60	Elev. 4396
Log Measured from	KB	KB 4408
Drilling Measured from	KB	GL 4398
Date	7-1-80	
Run No.	1	
Depth-Driller	4300	
Depth-Logger	4264	
Bottom Logged Interval	4263	
Top Logged Interval	1652	
Casing-Driller	858 @ 1648	
Casing-Logger	1652	
Bit Size	7 7/8	
Type Fluid in Hole	Brine Gel Pad	
Density and Viscosity	10.3 30	
pH and Fluid Loss	8.5 56 cc	
Source of Sample	8.5 56 cc	
Rm @ Meas. Temp.	0.61 @ 62 °F	
Rm @ Meas. Temp.	0.42 @ 62 °F	
Rmc @ Meas. Temp.	0.42 @ 62 °F	
Source of Rm and Rmc	m	
Rm @ BHT	1032 @ 101 °F	
Time Since Circ.	2.1	
Max Rec. Temp. Deg. F.	101 °F	
Equip. No. and Location	16613 Hobbs	
Recorded By	R. K. Hayes	
Witnessed By	R. K. Hayes	

FOLD HERE:

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

Remarks:		Equipment Used	
2 7/8 O.H. Limestone ϕ		Series No.	1308 2402
Caliper maximum 12.25"		Run No.	1
		S.O.	22532
		Tool No.	3202 24642
		Elec. No.	1
		Panel No.	33022 33022
Gamma Ray		Equipment Data	
Run No.	1	Run No.	1
Tool Model No.	1308	Log Type	N-FN
Diam.	3.625"	Tool Model No.	2402
Detect. Model No.	D6N3	Serial No.	24642
Type	SLM+	Diam.	3.0"
Length	6"	Detect. Model No.	D3H
Dist to N Source	12'	Type	Rapp
Computer Data		Length	47'
		Source Model No.	812R5
		Serial No.	22935
		Type	AmBe
		Strength	4.5C
Logging Data		Gamma Ray	
Run No.	1	T.C. Sec.	2
From	4263	Sens. Settings	800
To	1652	Zero Div. L or R	0
Speed Ft./Min.	REL	API G Units/L	10
T.C. Sec.	2		
Sens. Settings	192		
Zero	15.45		
Units/Div.	2%		
Scale	30.0		



Reference to
Dresser Atlas Sidewall Neutron / Gamma Ray
Stratigraphic Federal #3 July 11, 1980



UNICHEM
INTERNATIONAL

Home Office 707 N. Leech, P. O. Box 1499 / Hobbs, NM 88240 / Ph. 505. 393.7751, TWX 910.986-0010

WF

Company Exxon
Field _____
Lease _____ Sampling Date 7-14-80
Type of Sample Federal
Strange Battery 10001-1000-1A

WATER ANALYSIS

IONIC FORM	me/l *	mg/l *
Calcium (Ca++)	1710.00	34200
Magnesium (Mg++)	1030.00	12360
Sodium (Na+) (CALCULATED)	3220.61	24042
Iron (Total)		253
Bicarbonate (HCO ₃ ⁻)	0	0
Carbonate (CO ₃ ⁻)	Not	Found
Hydroxide (OH ⁻)	Not	Found
Sulphate (SO ₄ ⁻)	10.41	500
Chloride (Cl ⁻)	5950.20	211000
Total Dissolved Solids		332102
4.90 pH c 68 °F		
Dissolved Solids on Evap. at 103° - 105° C		
Hardness as Ca CO ₃	2740.00	137000
Carbonate Hardness as CaCO ₃ (temporary)	0	0
Non-Carbonate Hardness as CaCO ₃ (permanent)	2740.00	137000
Alkalinity as CaCO ₃	0	0
Specific Gravity c 68° F 1.201		

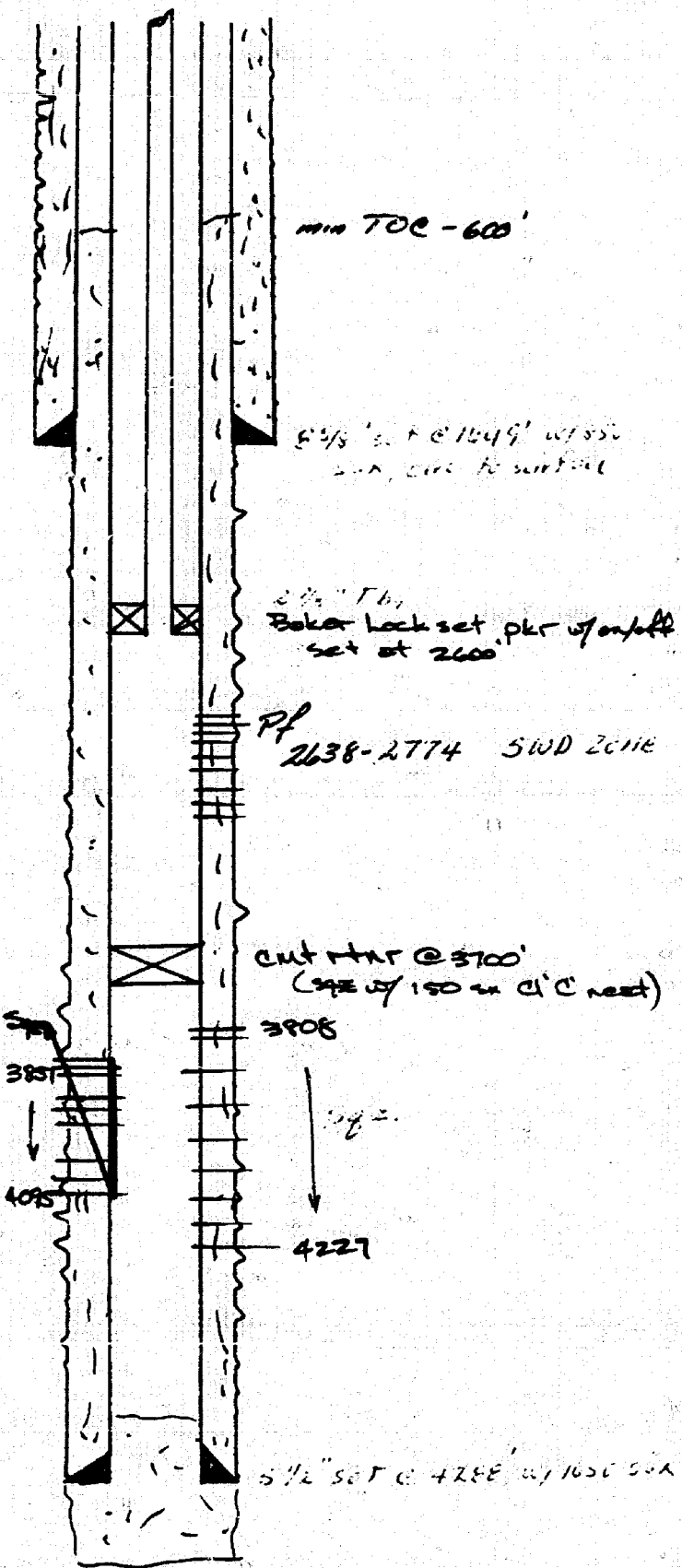
* mg/l = milligrams per Liter

* me/l = milliequivalents per Liter

CaCO₃ S.I. negative @ 86°F (0.39)

CaSO₄ S.I. positive (1.52)

WELLBORE SKETCH



DATE: 1/28/81
FIELD/POOL: Tonahawa
LEASE/WELL #: Strange Federal #3
R.D.B. ZERO FT. ' ABOVE
BOTTOM HOLE ASSEMBLY:

WELL HISTORY

Sketch Denotes
WELL BORE AFTER
CONVERSION TO S.W.D.

DRAFT

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

dr/

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION FOR THE PURPOSE OF
CONSIDERING:

CASE NO. 7289

Order No. R- 6740

APPLICATION OF EXXON CORPORATION
FOR A SALT WATER DISPOSAL WELL,
CHAVES COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on July 2,
19 81, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this _____ day of July, 19 81, the Division
Director, having considered the record and the recommendations of
the Examiner, and being fully advised in the premises,

FINDS:

That the applicant's request for dismissal should be granted.

IT IS THEREFORE ORDERED:

That Case No. 7289 is hereby dismissed.

DONE at Santa Fe, New Mexico, on the day and year hereinabove
designated.