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CACTUS On. Lse.
YATES DRLG. (Oper.)
Hugh Graham
4 · 17 · 88

NO. CAPROCK QUEEN UNIT

MURPHY OPER. CO.
U.S. (OPER.)

Proposed Location

Stogner
CASE 11206
2-16-95
STRATA – EXHIBIT #1

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

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

CASE NO. 11206

APPLICATION OF STRATA PRODUCTION COMPANY FOR AN UNORTHODOX LOCATION AND FOR SPECIAL POOL RULES, FOR THE CAPROCK DEVONIAN POOL, CHAVES AND LEA COUNTIES, NEW MEXICO.

AFFIDAVIT OF MAILING

STATE OF NEW MEXICO)
) ss.
COUNTY OF BERNALILLO)

SEALY H. CAVIN, JR., attorney in fact and authorized representative of Strata Production Company, the Applicant herein, being first duly sworn, upon oath, states that the notice provisions of Rule 1207 of the New Mexico Oil Conservation Division have been complied with, that Applicant has caused to be conducted a good faith diligent effort to find the correct addresses of all interested persons entitled to receive notice as shown by Exhibit "A" attached hereto, and that pursuant to Rule 1207, notice has been given at the correct addresses provided by such rule.

Further affiant saith naught.

Sealy H. Cavin, Jr.

Before Stogner
2-15-95
Strata Production Company
Exhibit "2"

SUBSCRIBED AND SWORN to before me this 7th day of February, 1995.

Shelly Callihan
Notary Public

My Commission Expires:

2-26-96

EXHIBIT A

Bank One, Texas, NA
Trustee of the Madelon Leonard Trust, Martha Leonard Revocable Trust, Miranda Leonard Revocable Trust, Mary Leonard Children's Trust and John Marvin Leonard Trust
Trust Division
P.O. Box 2050
Fort Worth, Texas 76113

John R. Crandall
Trustee of the Roderic Crandall Trust
721 Ourlane Circle
Houston, Texas 77024-2720

Ibex Partnership
P.O. Box 911
Breckenridge, Texas 76424-0911

John M. Griffith, Jr.
c/o Bank of Commerce
P.O. Box 17089
Fort Worth, Texas 76102

Layton Enterprises, Inc.
3103 79th Street
Lubbock, Texas 79423

Murphy Minerals Corporation
P.O. Box 2164
Roswell, New Mexico 88202-2164

Murphy Operating Corporation
P.O. Box 2648
Roswell, New Mexico 88202-2648

Norwest Bank of Roswell
Trustee of the Allie M. Lee Estate
400 N. Pennsylvania
Roswell, New Mexico 88201
Attn: Marian Thompson, Trust Department

Shriners Hospitals for Crippled Children
P.O. Box 25356
Tampa, Florida 33622-5356

Fi-Ro Corp.
P.O. Box 8148
Roswell, New Mexico 88201

SENDER:
- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Bank One, Texas, NA
Trust Division
P.O. Box 2050
Fort Worth, Texas 76113

4a. Article Number
Z 096 086 156

4b. Service Type
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery
JAN 30 1995

5. Signature (Addressee)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Agent) R Medlock

PS Form 3811, December 1991 ☆U.S. GPO: 1993—352-714 **DOMESTIC RETURN RECEIPT**

Is your RETURN ADDRESS completed on the reverse side?

Thank you for using Return Receipt Service.

SENDER:
- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
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I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

John R. Crandall
Trustee of the Roderic Crandall Trust
721 Ourlane Circle
Houston, Texas 77024-2720

4a. Article Number
Z 096 086 157

4b. Service Type
☒ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery 2-1-95

5. Signature (Addressee) John R. Crandall

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Agent)

HOUSTON, TX MEMORIAL BR FEB 3 1995 USPS

PS Form 3811, December 1991 ☆U.S. GPO: 1993—352-714 **DOMESTIC RETURN RECEIPT**

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I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Ibex Partnership
P.O. Box 911
Breckenridge, Texas 76424-0911

4a. Article Number
Z 096 086 158

4b. Service Type
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery 1-30-95

5. Signature (Addressee)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Agent) Ibex Partnership

PS Form 3811, December 1991 ☆U.S. GPO: 1993—352-714 **DOMESTIC RETURN RECEIPT**

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I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

John M. Griffith, Jr.
c/o Bank of Commerce
P.O. Box 17089
Fort Worth, Texas 76102

4a. Article Number
Z 096 086 159

4b. Service Type
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery
FEB 2 1995

5. Signature (Addressee)
Lawton Monsivais

6. Signature (Agent)

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1991 ☆U.S. GPO: 1993—352-714 **DOMESTIC RETURN RECEIPT**

Is your RETURN ADDRESS completed on the reverse side?

Thank you for using Return Receipt Service.

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I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Layton Enterprises, Inc.
3103 79th Street
Lubbock, Texas 79423

4a. Article Number
Z 096 086 160

4b. Service Type
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery
1-28-95

5. Signature (Addressee)

6. Signature (Agent)

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1991 ☆U.S. GPO: 1993—352-714 **DOMESTIC RETURN RECEIPT**

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SENDER:
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I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Murphy Minerals Corporation
P.O. Box 2164
Roswell, New Mexico 88202-2164

4a. Article Number
Z 096 086 161

4b. Service Type
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery
1-26-95

5. Signature (Addressee)

6. Signature (Agent)

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1991 ☆U.S. GPO: 1993—352-714 **DOMESTIC RETURN RECEIPT**

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- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Murphy Operating Corporation
P.O. Box 2648
Roswell, New Mexico 88202-2648

4a. Article Number: Z 096 086 162

4b. Service Type
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery: 1-30-95

5. Signature (Addressee): Clara Tallent

6. Signature (Agent)

8. Addressee's Address (Only if requested and fee is paid)

PS Form **3811**, December 1991 ☆U.S. GPO: 1993—352-714 **DOMESTIC RETURN RECEIPT**

Is your RETURN ADDRESS completed on the reverse side?

Thank you for using Return Receipt Service.

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I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Norwest Bank of Roswell
400 N. Pennsylvania
Roswell, New Mexico 88201
Attn: Marian Thompson,
Trust Department

4a. Article Number: Z 096 086 163

4b. Service Type
☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery: 1-31-95

5. Signature (Addressee)

6. Signature (Agent)

8. Addressee's Address (Only if requested and fee is paid)

PS Form **3811**, December 1991 ☆U.S. GPO: 1993—352-714 **DOMESTIC RETURN RECEIPT**

Is your RETURN ADDRESS completed on the reverse side?

Thank you for using Return Receipt Service.

SENDER:
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I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Shriners Hospitals for
Crippled Children
P.O. Box 25356
Tampa, Florida 33622-5356

4a. Article Number: Z 096 086 164

4b. Service Type
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery: 1-30-95

5. Signature (Addressee)

6. Signature (Agent)

8. Addressee's Address (Only if requested and fee is paid)

PS Form **3811**, December 1991 ☆U.S. GPO: 1993—352-714 **DOMESTIC RETURN RECEIPT**

Is your RETURN ADDRESS completed on the reverse side?

Thank you for using Return Receipt Service.

Is your RETURN ADDRESS completed on the reverse side?

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I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Fi-Ro Corp.
P.O. Box 8148
Roswell, New Mexico 88201

4a. Article Number
Z 096 086 165

4b. Service Type
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery
1/28/95

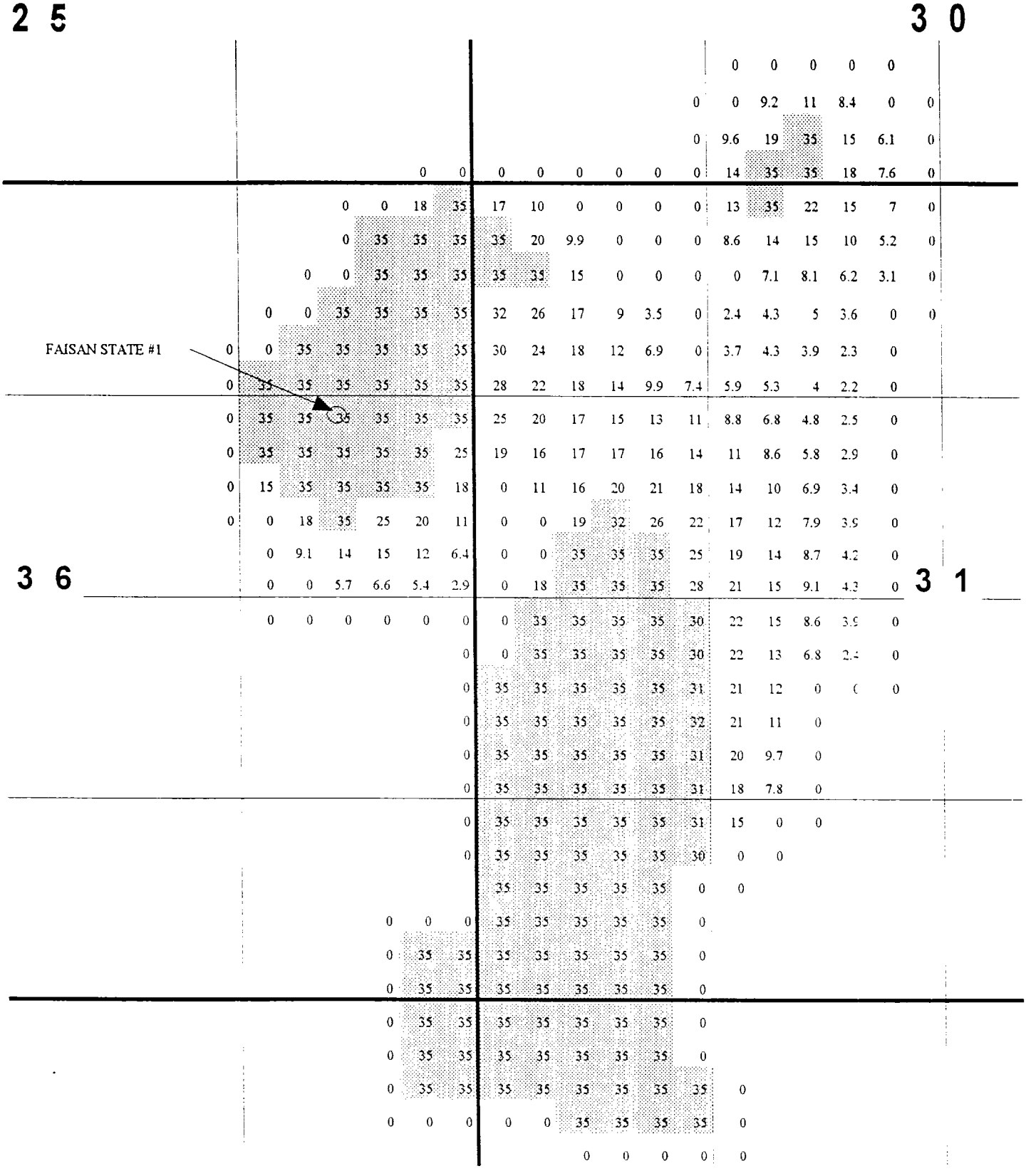
5. Signature (Addressee)
Susana M. Dorado

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Agent)
Thelma Pistuari

PS Form **3811**, December 1991 ☆U.S. GPO: 1993—352-714 **DOMESTIC RETURN RECEIPT**

Thank you for using Return Receipt Service.



RESERVOIR NET FEET

Before Examiner Stogner

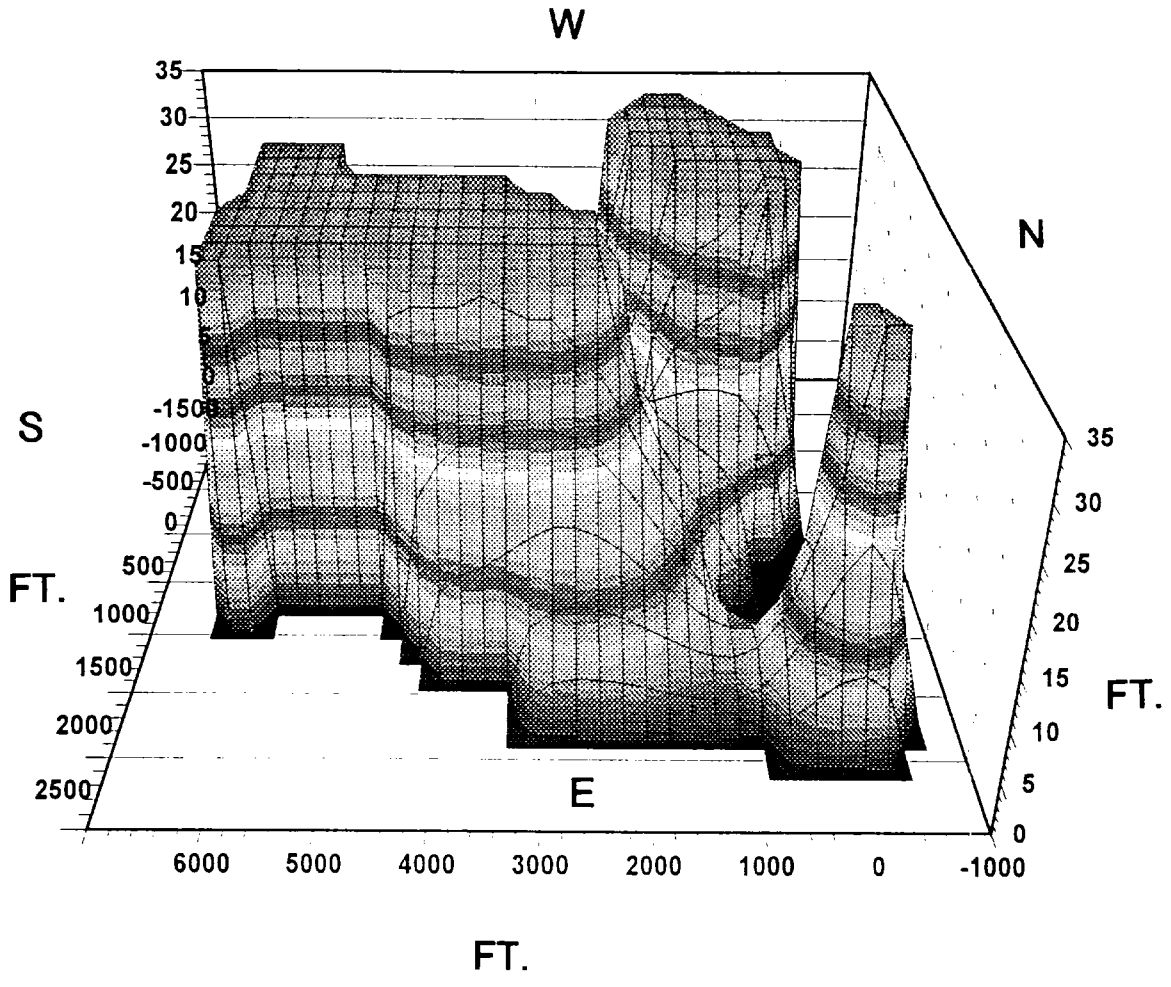
O/W CONTACT AT -7625'

220' X 220'
(1.1111 ACRES)

STRATA PRODUCTION COMPANY
DEVONIAN FORMATION
SECTION 36 - T12S - R31E
CHAVES COUNTY, N.M.
2-16-95
CASE No.: 11206 EXHIBIT: 3

3-D VIEW OF NET RESERVOIR FEET

ABOVE THE OIL-WATER CONTACT



STRATA PRODUCTION COMPANY

DEVONIAN FORMATION

SEC. 36 - T12S - R31E

LEA COUNTY, N.M.

CASE NO.: 11206

STRATA PRODUCTION COMPANY

DEVONIAN FORMATION
SECTION 36 - T12S - R31E
CHAVES COUNTY, N.M.

CASE NO.:11206

The calculated reserves for the Devonian are based volumetric analysis of the reservoir using the structure map created by 3-D seismic on the top of the Devonian. A 220 ft. by 220 ft. Grid Pattern was superimposed over the map and a reservoir volume calculated for each Grid Block. The net pay is estimated from logs on the Ensearch #1 State "13" located in Section 13-T12S-R31E, from these logs it was determined the top 15 feet of the Devonian is "tite" and the next 35 feet has an average porosity of 10.5%. From DST's on the Graridge Livermore State "G" #9 a oil-water contact is estimated at -7625'. Therefore, because the top 15 feet is tite, the first porosity above water would occur at -7610' and all the porosity would be above water at -7575'. It is estimated that the reservoir volume for the #1 well, located on 80 acres in the E/2NE/4 of section 36, is 1731 Acre-Ft. Using this volume and a water saturation of 35%, oil formation volume factor of 1.2 and a recovery factor of 43% of the original oil-in-place, the calculations yield recoverable reserves of 328,409 barrels of oil for the #1 well.

FAISAN STATE #1
CHAVES COUNTY,NM
SEC. 36-T12S-31E
STRATA PRODUCTION CO

DATE: 02/15/95
TIME: 13:40:07
FILE: CAPRKDEV
GET#: 2

RESERVES AND ECONOMICS

AS OF FEBRUARY 1, 1995

-END- MO-YR	---GROSS PRODUCTION--- OIL, MBBL	GAS, MMCF	----NET PRODUCTION---- OIL, MBBL	GAS, MMCF	--PRICES--- OIL $/B	GAS $/M	--------OPERATIONS, M$-------- NET OPER REVENUES	SEV+ADV TAXES	NET OPER EXPENSES	CAPITAL COSTS, M$	CASH FLOW BTAX, M$	10.00 PCT CUM. DISC BTAX, M$
12-95	44.736	17.894	35.789	14.315	18.00	1.50	665.675	56.352	16.000	726.920	-133.597	-148.568
12-96	56.211	22.485	44.969	17.988	18.00	1.50	836.424	70.807	24.000	.000	741.617	499.380
12-97	45.391	18.156	36.313	14.525	18.00	1.50	675.422	57.177	24.000	.000	594.245	971.370
12-98	36.653	14.661	29.322	11.729	18.00	1.50	545.390	46.169	24.000	.000	475.221	1314.509
12-99	29.598	11.840	23.678	9.472	18.00	1.50	440.412	37.283	24.000	.000	379.129	1563.377
12- 0	23.900	9.560	19.120	7.648	18.00	1.50	355.632	30.107	24.000	.000	301.525	1743.311
12- 1	19.299	7.719	15.439	6.175	18.00	1.50	287.165	24.310	24.000	.000	238.855	1872.889
12- 2	15.584	6.234	12.467	4.987	18.00	1.50	231.887	19.631	24.000	.000	188.256	1965.733
12- 3	12.584	5.033	10.067	4.026	18.00	1.50	187.245	15.852	24.000	.000	147.393	2031.816
12- 4	10.162	4.065	8.130	3.252	18.00	1.50	151.218	12.801	24.000	.000	114.417	2078.451
12- 5	8.205	3.282	6.564	2.626	18.00	1.50	122.091	10.336	24.000	.000	87.755	2110.967
12- 6	6.626	2.651	5.301	2.121	18.00	1.50	98.600	8.348	24.000	.000	66.252	2133.284
12- 7	5.351	2.140	4.281	1.712	18.00	1.50	79.626	6.740	24.000	.000	48.886	2148.254
12- 8	4.320	1.728	3.456	1.382	18.00	1.50	64.281	5.442	24.000	.000	34.839	2157.953
12- 9	3.489	1.396	2.791	1.117	18.00	1.50	51.914	4.394	24.000	.000	23.520	2163.905
12-10	2.817	1.126	2.254	.901	18.00	1.50	41.924	3.549	24.000	.000	14.375	2167.212
12-11	2.275	.910	1.820	.728	18.00	1.50	33.852	2.865	24.000	.000	6.987	2168.673
12-12	1.302	.521	1.042	.417	18.00	1.50	19.382	1.640	16.460	.000	1.282	2168.920
12-13												
12-14												
S TOT	328.503	131.401	262.803	105.121	18.00	1.50	4888.140	413.803	416.460	726.920	3330.957	2168.920
REM.	.000	.000	.000	.000	.00	.00	.000	.000	.000	.000	.000	2168.920
TOTAL	328.503	131.401	262.803	105.121	18.00	1.50	4888.140	413.803	416.460	726.920	3330.957	2168.920
CUM.	.000	.000										
ULT.	328.503	131.401										

NET OIL REVENUES (M$)	4730.454		
NET GAS REVENUES (M$)	157.686		
TOTAL REVENUES (M$)	4888.140		
BTAX RATE OF RETURN (PCT)	100.00	PROJECT LIFE (YEARS)	17.353
BTAX PAYOUT YEARS	.85	DISCOUNT RATE (PCT)	10.000
BTAX PAYOUT YEARS (DISC)	.90	GROSS OIL WELLS	1.000
BTAX NET INCOME/INVEST	5.58	GROSS GAS WELLS	.000
BTAX NET INCOME/INVEST (DISC)	4.06	GROSS WELLS	1.000
INITIAL W.I. FRACTION	1.000000	INITIAL NET OIL FRACTION	.800000
FINAL W.I. FRACTION	1.000000	FINAL NET OIL FRACTION	.800000
PRODUCTION START DATE	5- 1-95	INITIAL NET GAS FRACTION	.800000
MONTHS IN FIRST LINE	8.00	FINAL NET GAS FRACTION	.800000

---------PRESENT WORTH PROFILE---------

DISC RATE	PW OF NET BTAX, M$	DISC RATE	PW OF NET BTAX, M$
.0	3330.957	30.0	1150.620
2.0	3029.149	35.0	1008.716
5.0	2651.591	40.0	890.384
8.0	2343.811	45.0	790.334
10.0	2168.920	50.0	704.714
12.0	2013.803	60.0	566.093
15.0	1811.770	70.0	458.955
18.0	1639.643	80.0	373.870
20.0	1538.510	90.0	304.807
25.0	1323.537	100.0	247.730

FAISAN STATE #1
CHAVES COUNTY,NM
SEC. 36-T12S-31E
STRATA PRODUCTION CO

DATE: 02/15/95
TIME: 13:53:03
FILE: CAPRKDEV
GET#: 2

RESERVES AND ECONOMICS

AS OF FEBRUARY 1, 1995

-END- MO-YR	---GROSS PRODUCTION--- OIL, MBBL	GAS, MMCF	----NET PRODUCTION---- OIL, MBBL	GAS, MMCF	--PRICES--- OIL $/B	GAS $/M	--------OPERATIONS, M$-------- NET OPER REVENUES	SEV+ADV TAXES	NET OPER EXPENSES	CAPITAL COSTS, M$	CASH FLOW BTAX, M$	10.00 PCT CUM. DISC BTAX, M$
12-95	34.689	13.876	27.751	11.101	18.00	1.50	516.170	43.697	16.000	726.920	-270.447	-278.017
12-96	39.221	15.688	31.377	12.550	18.00	1.50	583.611	49.405	24.000	.000	510.206	167.748
12-97	27.846	11.138	22.277	8.910	18.00	1.50	414.351	35.077	24.000	.000	355.274	449.931
12-98	19.771	7.909	15.817	6.327	18.00	1.50	294.197	24.904	24.000	.000	245.293	627.048
12-99	14.037	5.615	11.230	4.492	18.00	1.50	208.878	17.682	24.000	.000	167.196	736.799
12- 0	9.967	3.986	7.974	3.189	18.00	1.50	148.316	12.556	24.000	.000	111.760	803.491
12- 1	7.076	2.831	5.661	2.265	18.00	1.50	105.296	8.913	24.000	.000	72.383	842.759
12- 2	5.024	2.009	4.019	1.607	18.00	1.50	74.753	6.328	24.000	.000	44.425	864.668
12- 3	3.567	1.427	2.854	1.142	18.00	1.50	53.085	4.493	24.000	.000	24.592	875.694
12- 4	2.533	1.013	2.026	.810	18.00	1.50	37.683	3.191	24.000	.000	10.492	879.970
12- 5	1.056	.423	.845	.338	18.00	1.50	15.717	1.331	13.080	.000	1.306	880.465
12- 6												
12- 7												
12- 8												
12- 9												
12-10												
12-11												
12-12												
12-13												
12-14												
S TOT	164.787	65.915	131.831	52.731	18.00	1.50	2452.057	207.577	245.080	726.920	1272.480	880.465
REM.	.000	.000	.000	.000	.00	.00	.000	.000	.000	.000	.000	880.465
TOTAL	164.787	65.915	131.831	52.731	18.00	1.50	2452.057	207.577	245.080	726.920	1272.480	880.465
CUM.	.000	.000										
ULT.	164.787	65.915										

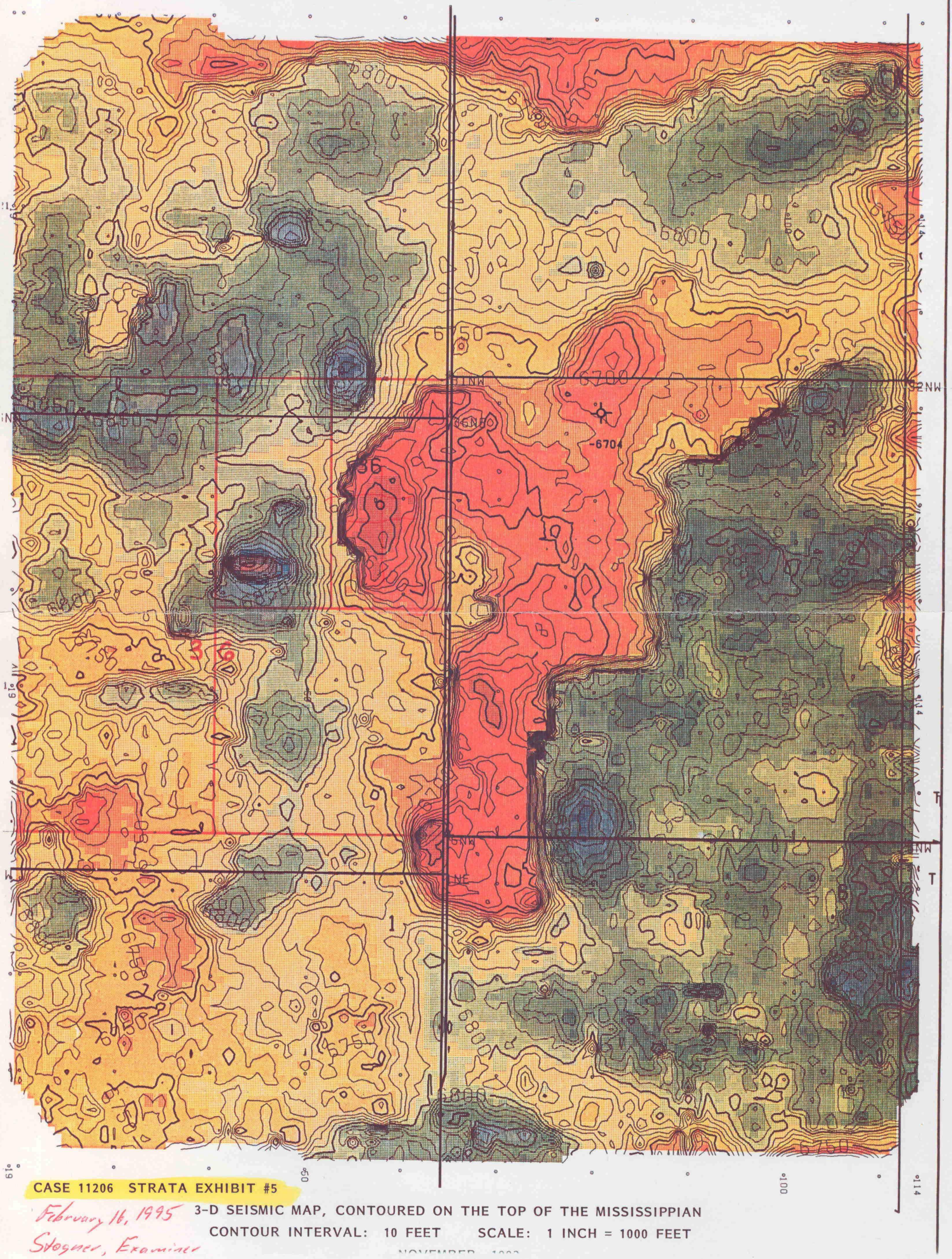
NET OIL REVENUES (M$)	2372.958		
NET GAS REVENUES (M$)	79.099		
TOTAL REVENUES (M$)	2452.057		
BTAX RATE OF RETURN (PCT)	95.56	PROJECT LIFE (YEARS)	10.212
BTAX PAYOUT YEARS	1.20	DISCOUNT RATE (PCT)	10.000
BTAX PAYOUT YEARS (DISC)	1.29	GROSS OIL WELLS	1.000
BTAX NET INCOME/INVEST	2.75	GROSS GAS WELLS	.000
BTAX NET INCOME/INVEST (DISC)	2.24	GROSS WELLS	1.000
INITIAL W.I. FRACTION	1.000000	INITIAL NET OIL FRACTION	.800000
FINAL W.I. FRACTION	1.000000	FINAL NET OIL FRACTION	.800000
PRODUCTION START DATE	5- 1-95	INITIAL NET GAS FRACTION	.800000
MONTHS IN FIRST LINE	8.00	FINAL NET GAS FRACTION	.800000

--------PRESENT WORTH PROFILE--------

DISC RATE	PW OF NET BTAX, M$	DISC RATE	PW OF NET BTAX, M$
.0	1272.480	30.0	454.218
2.0	1178.191	35.0	386.713
5.0	1053.260	40.0	328.700
8.0	944.925	45.0	278.397
10.0	880.465	50.0	234.429
12.0	821.379	60.0	161.431
15.0	741.533	70.0	103.494
18.0	670.749	80.0	56.574
20.0	627.904	90.0	17.935
25.0	533.564	100.0	-14.346

R 31 E

R 32 E



CASE 11206 STRATA EXHIBIT #5

February 16, 1995
Stogner, Examiner

3-D SEISMIC MAP, CONTOURED ON THE TOP OF THE MISSISSIPPIAN

CONTOUR INTERVAL: 10 FEET SCALE: 1 INCH = 1000 FEET

NOVEMBER 1993

CASE 11206 STRATA EXHIBIT #4

Before Examiner Stogner

2-16-95

CAPROCK PROSPECT

DEVONIAN STRUCTURAL MAP

(Based on 3-D Seismic Structure on top of the Mississippian)

C.I.: 25 Feet

SCALE: 1 Inch = 2000 Feet

George L. Scott, Jr. Nov., 1993

LARGE FORMAT
EXHIBIT HAS
BEEN REMOVED
AND IS LOCATED
IN THE NEXT FILE