

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE\*  
(Other instructions on  
reverse side)

Form approved.  
Budget Bureau No. 1004-0136  
Expires August 31, 1985

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL  
WELL ☐

OAS  
WELL ☒

OTHER

SINGLE  
ZONE ☒

MULTIPLE  
ZONE ☐

2. NAME OF OPERATOR

MITCHELL ENERGY CORPORATION

3. ADDRESS OF OPERATOR

555 Seventeenth Street Suite #3500  
Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface 790/S + 2200/W 13  
352' ENL, 1881' DEE, Sec. 14, T31N-R5W  
At proposed prod. zone  
same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

± 59 miles from Blanco, New Mexico

10. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

16. NO. OF ACRES IN LEASE

2560

18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

4000'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

320

20. ROTARY OR CABLE TOOLS

ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

This action is subject to technical and  
procedural review pursuant to 43 CFR 3165.3  
and appeal pursuant to 43 CFR 3165.4.

PROPOSED CASING AND CEMENTING PROGRAM

22. APPROX. DATE WORK WILL START\*

August 30, 1991

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | GENERAL QUANTITY OF CEMENT     |
|--------------|----------------|-----------------|---------------|--------------------------------|
| 12-1/4"      | 8-5/8"         | 24# K-55        | 500'          | 350 sxs - circ to surface      |
| 7-7/8"       | 5-1/2"         | 15.5# K-55      | 4000'         | 700 sxs - est TOC @ 350' sxs/c |

The operator proposes to drill to depth sufficient to test the Fruitland Formation. If productive, 5-1/2" casing will be run and set at +4000'. If non-productive, the well will be plugged and abandoned consistent with Federal Regulations. Any zones above the Fruitland may be tested for productivity prior to Abandonment.

EXHIBITS ATTACHED

Ten Point Compliance Program

Surface Use and Operating Plan

Exhibit No. 1 Proposed Cementing Program

Exhibit No. 2 Blowout Preventer Schematic

Exhibit No. 3 Location Elevation Plat (Form C-102)

Exhibit No. 4 One Mile Radius Map (includes existing & planned roads,  
sites, pipelines, and other facilities)

Exhibit No. 5 Production Facilities Layout

Exhibit No. 6 Drilling Rig Layout

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

JAMES C. ANDERSON

TITLE DISTRICT PRODUCTION MANAGER

DATE

6/20/91

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED  
NMOC AUG 27 1991  
OIL CON. DIV.  
DIST. 3

APPROVED  
AS AMENDED

AUG 26 1991

AREA MANAGER

\*See Instructions On Reverse Side

Submit to Appropriate  
District Office  
State Lease - 4 copies  
Fee Lease - 3 copies

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised 1-1-89

OIL CONSERVATION DIVISION

RECEIVED

EXHIBIT NO. 3

BLM Page 1 of 2

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

91 JUN 24 PM 1:53

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

|   |                                  |                      |                              |                           |                                 |
|---|----------------------------------|----------------------|------------------------------|---------------------------|---------------------------------|
| Operator<br>Mitchell Energy Corporation   |                                  |                      | Lease<br>Rose Unit           |                           | Well No.<br>318                 |
| Unit Letter<br>N  | Section<br>13                    | Township<br>31 North | Range<br>5 West              | County<br>NMPM Rio Arriba |                                 |
| Actual Footage Location of Well:<br>790 feet from the South line and 2200 feet from the West line |                                  |                      |                              |                           |                                 |
| Ground level Elev.<br>6539  | Producing Formation<br>Fruitland |                      | Foot<br>Basin Fruitland Coal |                           | Dedicated Acreage:<br>320 Acres |

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communization, unitization, force-pooling, etc.?  
☐ Yes ☐ No If answer is "yes" type of consolidation \_\_\_\_\_  
If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary).  
No allowable will be assigned to the well until all interests have been consolidated (by communization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.

OPERATOR CERTIFICATION

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

Signature  
*James C. Anderson*  
Printed Name  
James C. Anderson  
Position  
Dist. Prod. Mgr.  
Company  
Mitchell Energy Corp  
Date  
5/20/91

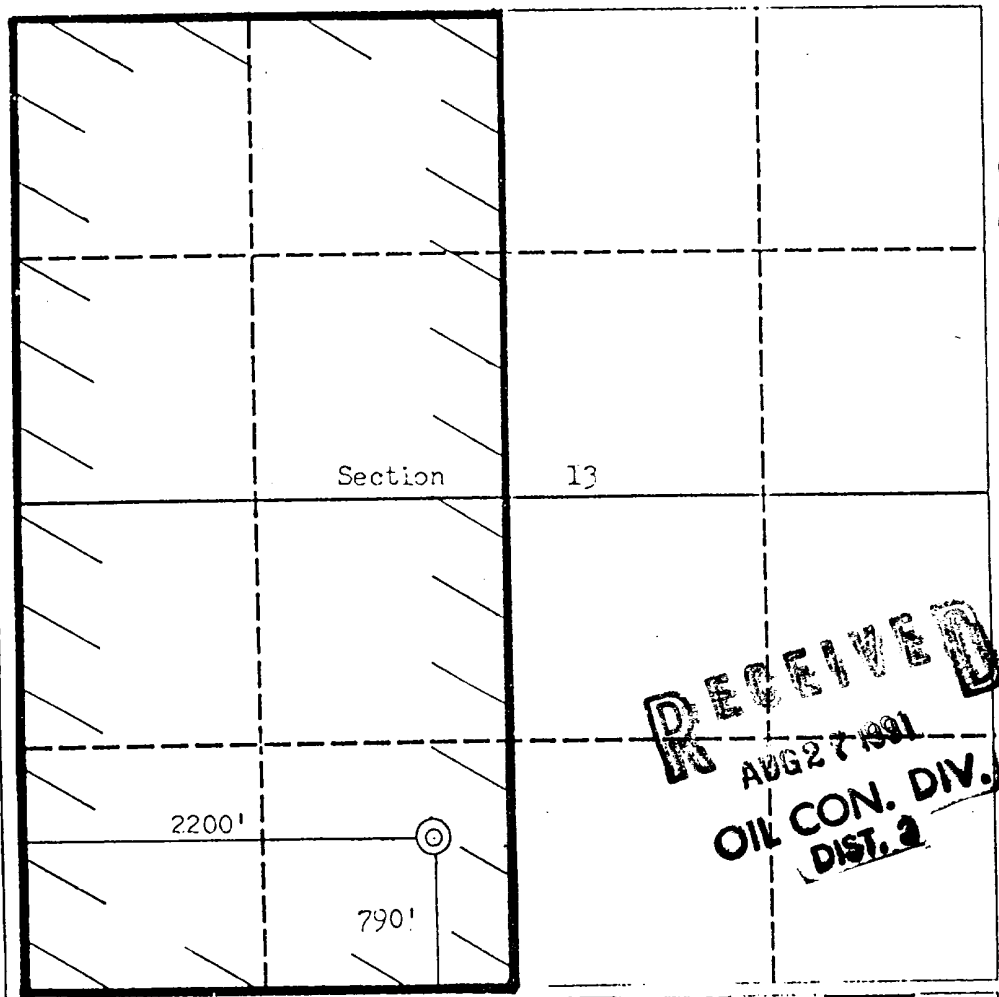
SURVEYOR CERTIFICATION

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

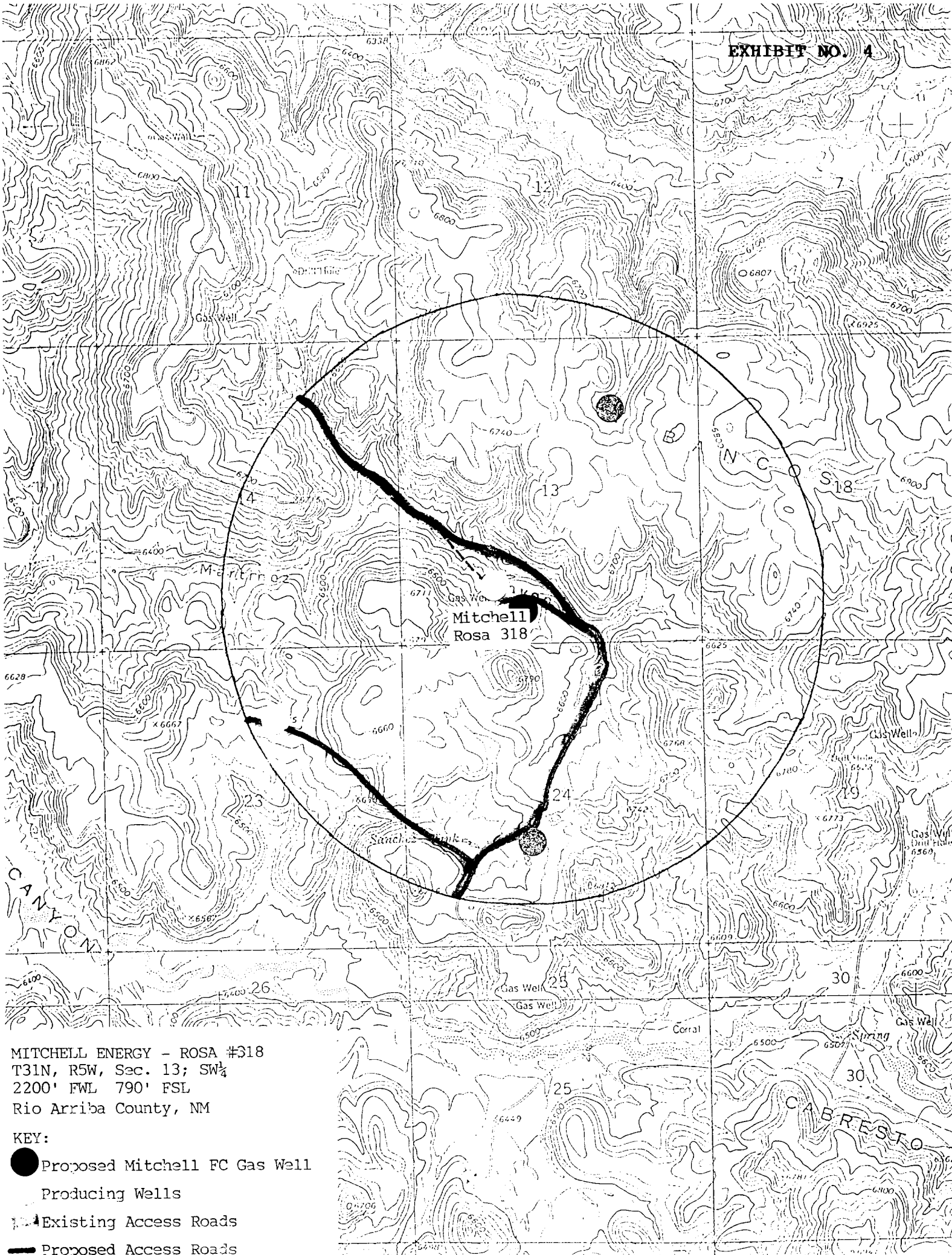
Date Surveyed  
5/20/91  
Signature & Seal of  
Professional Surveyor  
11225

REGISTERED PROFESSIONAL SURVEYOR

Certificate No. 11225  
Richard L Sinkiewicz



RECEIVED  
AUG 27 1991  
OIL CON. DIV.  
DIST. 2





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

August 22, 1991

BRUCE KING  
GOVERNOR

Mitchell Energy Corporation  
c/o Trigon Engineering, Inc.  
4100 East Main Street  
Farmington, New Mexico 87402

Attention: Cristi Cline

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87504  
(505) 827-5800

R-8768-10  
AUG 26 1991  
OIL CON. DIV.  
DIST. 3

Administrative Order NSL-3041

Dear Ms. Cline

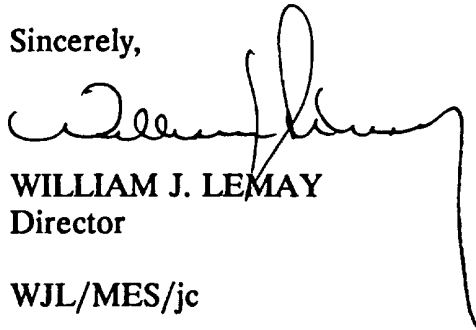
Reference is made to your applications of July/August 1991 on behalf of Mitchell Energy Corporation for exceptions to RULE 7 of the Special Rules and Regulations for the Basin-Fruitland Coal (Gas) Pool as promulgated by Division Order No. R-8768, as amended allowing for the following described 10 unorthodox coal gas well locations within the Rosa Unit Area, Basin-Fruitland Coal (Gas) Pool, Rio Arriba County, New Mexico.

| WELL NO. | FOOTAGE LOCATION      | U-S-T-R     | DEDICATED ACREAGE                               |
|----------|-----------------------|-------------|---|
| 314      | 1810' FNL - 2010' FEL | B-30-31N-4W | E/2 (320 Acres)                                 |
| ✓ 318    | 790' FSL - 2200' FWL  | N-13-31N-5W | W/2 (320 Areas)                                 |
| ✓ 319    | 352' FNL - 1881' FEL  | B-14-31N-5W | E/2 (320 Acres)                                 |
| ✓ 324    | 1800' FSL - 2050' FWL | K-24-31N-5W | W/2 (320 Acres)                                 |
| 345      | 110' FSL - 1622' FWL  | N-19-31N-4W | Lots 3 & 4,<br>E/2 SW/4, SE/4<br>(306.71 Acres) |
| 352      | 1345' FNL - 1935' FEL | B-5-31N-4W  | Lots 1 & 2,<br>S/2 NE/4, SE/4<br>(326.47 Acres) |
| ✓ 356    | 771' FSL - 1746' FEL  | O-11-31N-5W | E/2 (320 Acres)                                 |
| 357      | 1835' FNL - 587' FWL  | E-11-31N-5W | W/2 (320 Acres)                                 |
| 358      | 915' FSL - 600' FEL   | P-13-31N-5W | E/2 (320 Acres)                                 |
| 359      | 2500' FSL - 1625' FEL | J-23-31N-5W | S/2 (320 Acres)                                 |

Administrative Order NSL-3041  
Mitchell Energy Corporation  
August 22, 1991  
Page 2

By authority granted me under the provisions of Rule 8 of the Special Rules and Regulations for the Basin-Fruitland Coal (Gas) Pool as promulgated by Division Order No. R-8768, as amended, the above-described unorthodox coal gas well locations are hereby approved.

Sincerely,

A handwritten signature in black ink, appearing to read 'William J. Lemay', with a long, sweeping horizontal stroke extending to the right.

WILLIAM J. LEMAY  
Director

WJL/MES/jc

cc: Oil Conservation Division - Aztec •  
U.S. Bureau of Land Management - Farmington  
U.S. Forest Service - Blanco



STATE OF NEW MEXICO  
ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-6178

Date: August 2, 1991

ATTN:  
M. Stagner

Oil Conservation Division  
P.O. Box 2088  
Santa Fe, NM 87504-2088

RE: Proposed MC \_\_\_\_\_  
Proposed NSL 2 \_\_\_\_\_  
Proposed WFX \_\_\_\_\_  
Proposed NSP \_\_\_\_\_

Proposed DHC \_\_\_\_\_  
Proposed SWD \_\_\_\_\_  
Proposed PMX \_\_\_\_\_  
Proposed DD \_\_\_\_\_

Gentlemen:

I have examined the application received on August 2, 1991  
for the Mitchell Energy Corp. Block Unit # 318  
OPERATOR LEASE & WELL NO.

N-13-31N-5W and my recommendations are as follows:  
UL-S-T-R

Approve  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Yours truly,

Eugene B. Borch



July 30, 1991

William J. LeMay, Director  
State of New Mexico  
Energy, Minerals and Natural Resources Department  
Oil Conservation Division  
Post Office Box 2088  
State Land Office Building  
Santa Fe, New Mexico 87504

**Re: Unorthodox Location Waiver  
Mitchell Energy Corporation Rosa Unit #318  
Meridian Oil Gathering, Inc. - Rosa Unit Operator**

Dear Mr. LeMay:

We are submitting an Unorthodox Location Application for the Mitchell Energy Corp. Rosa Unit Well No. 318. Meridian Oil Gathering, Inc., as Operator of the Rosa Unit wells, will receive a copy of the application for approval of the location. The factors determining the location of the site are detailed in the attached package.

If there are no objections to the location, the waiver below will be signed by a representative of Meridian Oil Gathering, Inc.

Thank you for your cooperation.

Sincerely,

TRIGON ENGINEERING, INC.

*Cristi Cline*  
Cristi Cline  
Senior Right-of-Way Agent

Attachment

**RECEIVED**  
AUG 2 1991  
OIL CON. DIV  
DIST. ?

**WAIVER**

\_\_\_\_\_ hereby waives objection to Mitchell Energy Corporation's application for an unorthodox location for Rosa Unit Well No. 318.

BY: \_\_\_\_\_  
TITLE: \_\_\_\_\_  
Meridian Oil Gathering, Inc.  
Operator, Rosa Unit

DATE \_\_\_\_\_

**UNORTHODOX LOCATION APPLICATION  
MITCHELL ENERGY CORPORATION  
ROSA UNIT WELL NO. 318  
Basin Fruitland Coal**

**SITE LOCATION:**

Township 31 North, Range 5 West  
Section 13: SESW  
790' FSL, 2200' FWL

**FACTORS DETERMINING UNORTHODOX LOCATION:**

The site for the Mitchell Energy Corporation Rosa Unit Well No. 318 has been chosen in an unorthodox location due to extremely rough terrain and heavy wildlife use in the area. This location was found to be the most feasible in the entire SE 1/4 of Section 13.

The location lies at the east end of a sagebrush flat. The location could not be moved to the west to make it orthodox as the sagebrush flat is used frequently by wildlife and Forest Service Biologist, Joe Harper, would not allow the site to be located any further west into the flat. The Forest Service also requested this location since there will not be any need of new access road - thus limiting disturbance to terrain and wildlife.

A location on the west side of the existing Northwest Pipeline Rosa Unit #61 (Basin Dakota) was also considered, but due to the presence of an archaeological site, this proposed location was abandoned to avoid cultural/archaeological sites.



Submit to Appropriate  
District Office  
State Lease - 4 copies  
Fee Lease - 3 copies

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III  
1000 Pío Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

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|   |               |                                  |                    |                                 |                 |
|---|---------------|----------------------------------|--------------------|---------------------------------|-----------------|
| Operator<br>Mitchell Energy Corporation   |               |                                  | Lease<br>Rose Unit |                                 | Well No.<br>318 |
| Unit Letter<br>N  | Section<br>13 | Township<br>31 North             | Range<br>5 West    | County<br>NMPM Rio Arriba       |                 |
| Actual Footage Location of Well:<br>790 feet from the South line and 2200 feet from the West line |               |                                  |                    |                                 |                 |
| Ground level Elev.<br>6539  |               | Producing Formation<br>Fruitland |                    | Dedicated Acreage:<br>320 Acres |                 |

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OPERATOR CERTIFICATION

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

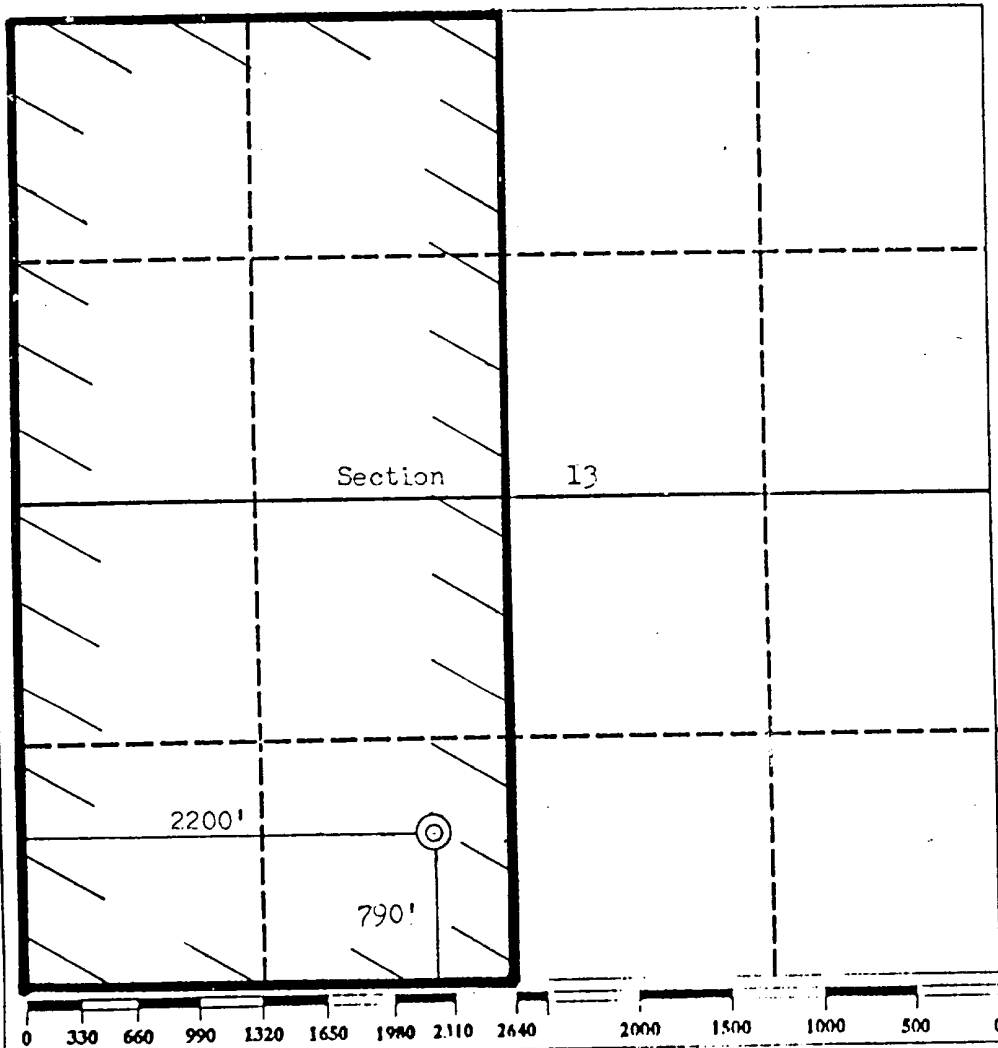
Signature  
*James C. Anderson*  
Printed Name  
James C. Anderson  
Position  
Dist. Prod. Mgr.  
Company  
Mitchell Energy Corp.  
Date  
5/20/91

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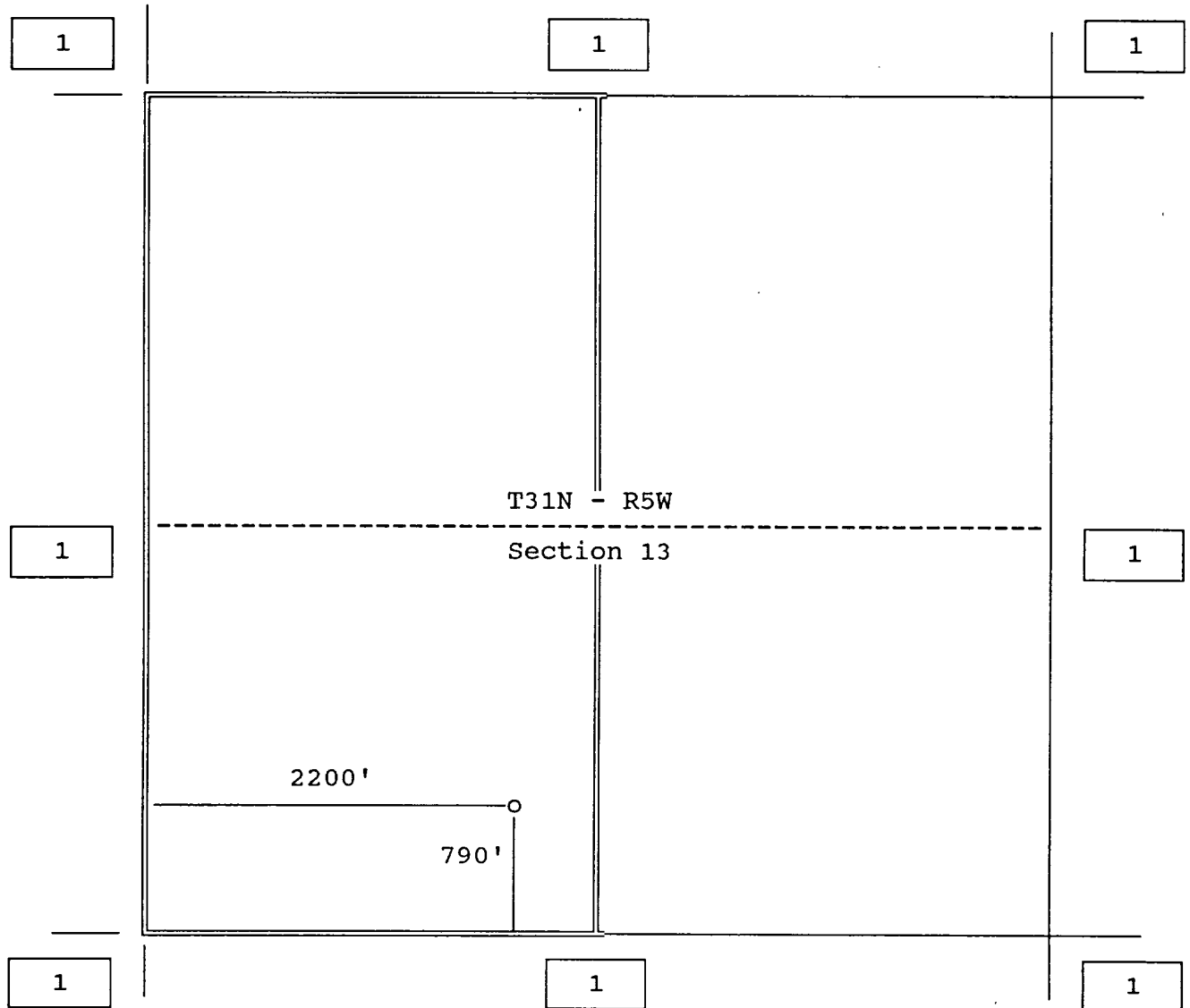
Date Subscribed  
1991 5/20/91  
Signature & Seal of  
Professional Surveyor  
11225  
REGISTERED PROFESSIONAL SURVEYOR

Certificate No. 11225  
Richard L Sinkiewicz

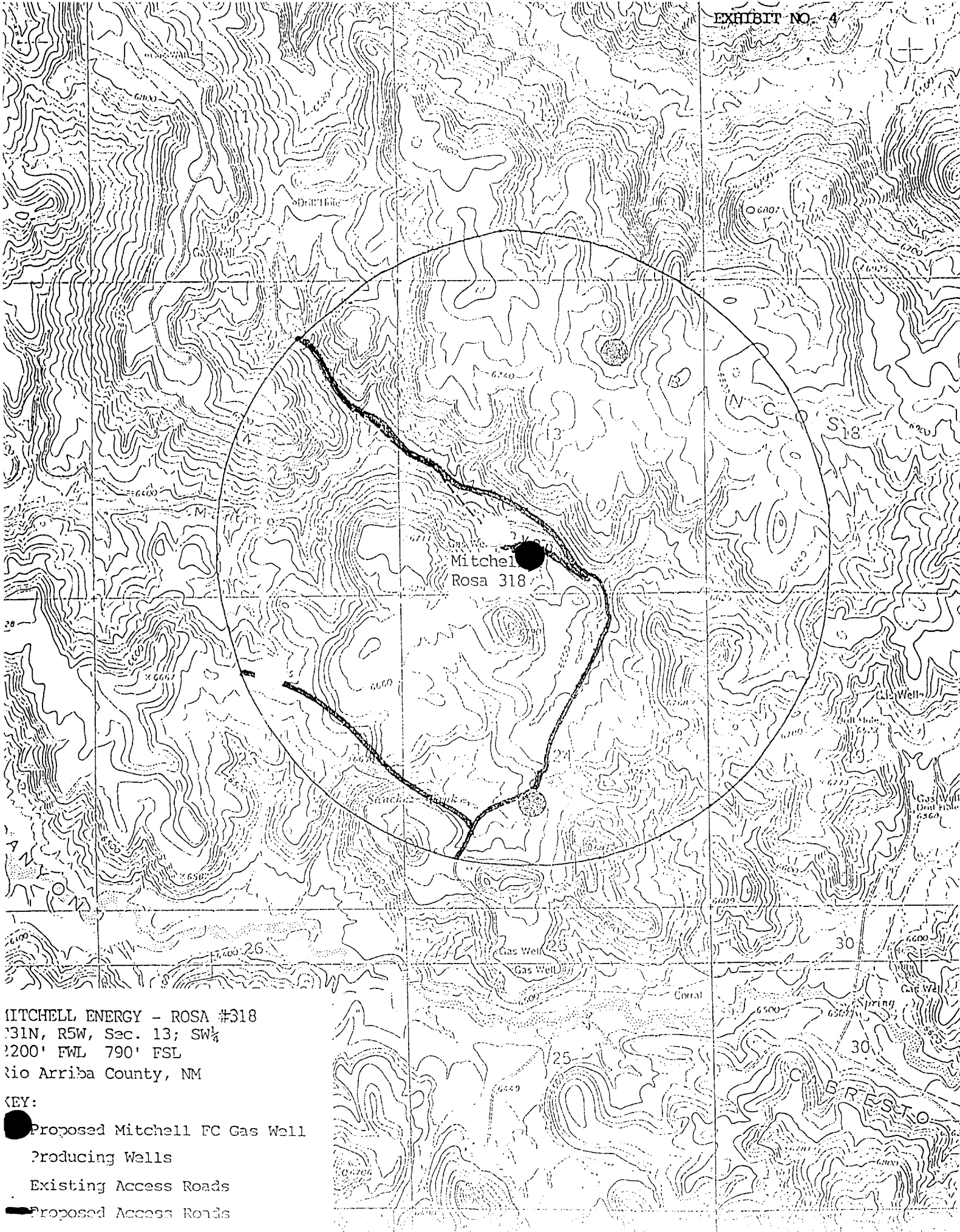


ROSA UNIT OWNERSHIP PLAT

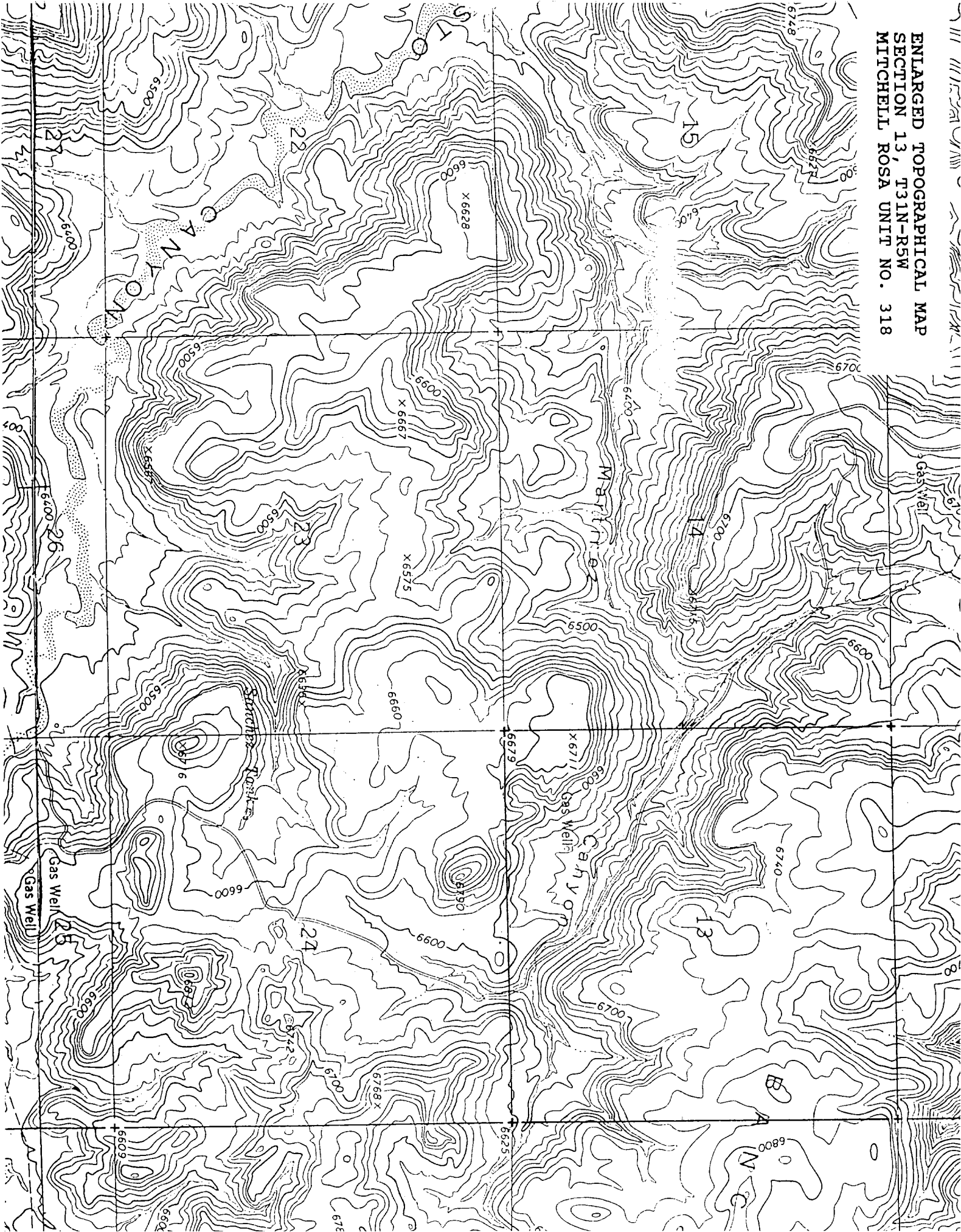
Mitchell Energy Corporation  
Rosa Unit Well No. 318



1. Offset Owner - Meridian Oil Gathering, Inc.  
Operator of the Rosa Unit



ENLARGED TOPOGRAPHICAL MAP  
SECTION 13, T31N-R5W  
MITCHELL ROSA UNIT NO. 318



65187  
20'

12.09 4.12.05 3.12.06 2.12.04 1.12.09 4.12.10 3.12.10 2.12.10 1.12.10 4.12.11 3.12.14 2.12.16 1.12.19 4.12.15 3.12.09 2.12.01 1.12.94

NM 22759  
50'

NM 22789  
50'

NM 68762  
OG Lse

NM 29340  
OG Lse

1394

NM 07265

9

NM 65043  
50'

NM 65183  
20'

SF 078763  
Lse OG

NM 55330  
50'

1586170

NM 61821  
30'

NM 55329  
50'

16

15

14

13

SF 078762  
Lse OG

SECTION 13, T31N-R5W  
MITCHELL ROSA UNIT NO. 318

21

22

23

24

14156

165

28

27

26

25

NM 65023  
20'

NM 031296

NM 58730  
20' From S.

NM 56664  
20' From S.

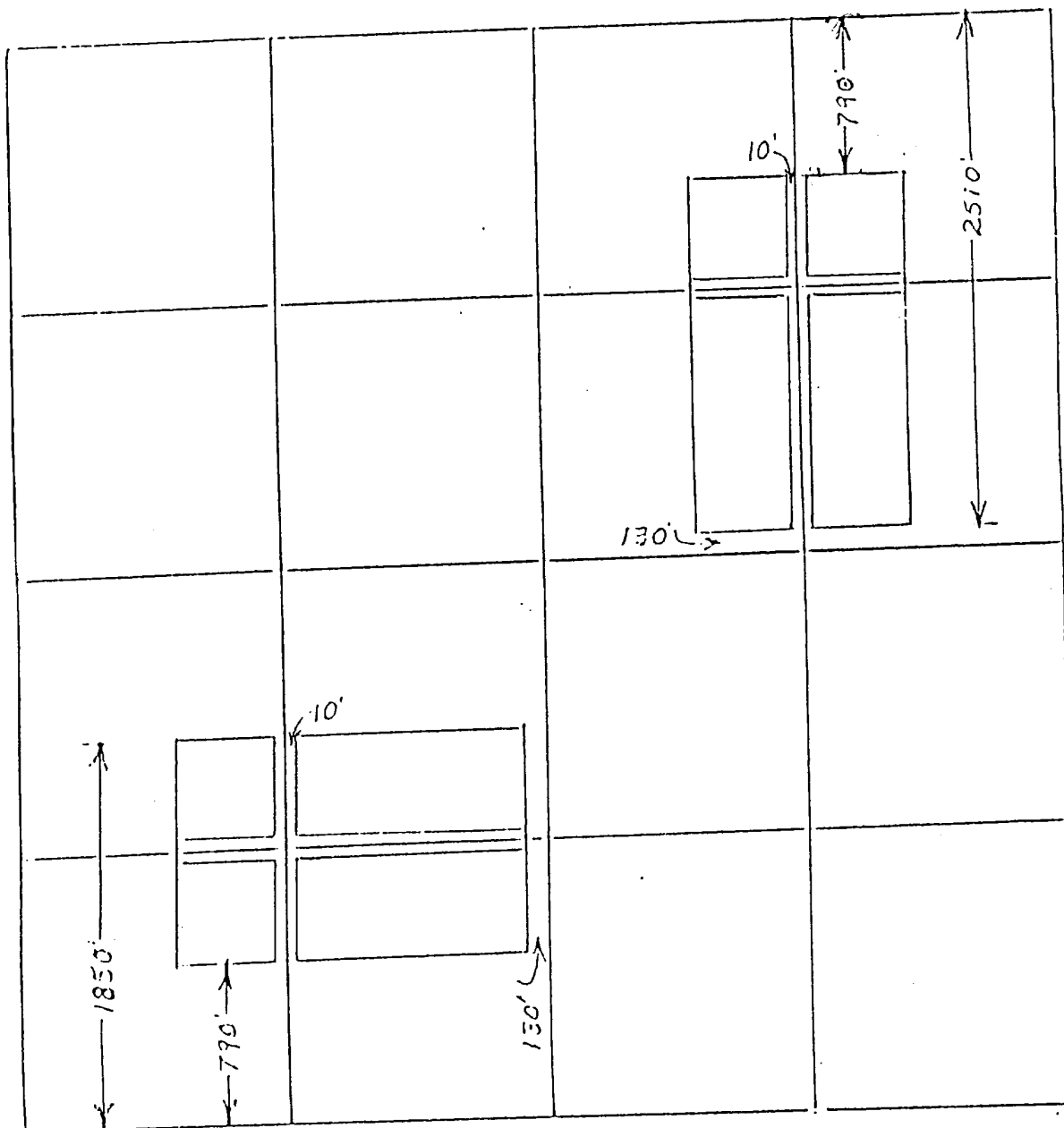
SF 078769  
Lse OG

SF 078770  
Lse OG

1102111  
D/C Coal

1107101  
D/C Coal

P



BASIN FRUITLAND COAL GAS POOL  
SPECIAL GAS SPACING - - 320.00 CONTIGUOUS ACRES

No closer than 790' to the drill tract outer boundary.  
 No closer than 130' to the inner boundary 1/4 section line.  
 Wells must have a setback from the 1/4, 1/4, line of at least  
 10 feet.

The first well in a section must be located in either the  
 NE/4 or SW/4. There is no provision for increased drilling  
 density.