

MERIDIAN OIL

*Verbal  
by E. Bunch  
7/7/89*

July 3, 1989

RECEIVED

JUL - 6 1989

OIL CONSERVATION DIV.  
SANTA FE

Mr. Mike Stogner  
New Mexico Oil Conservation Division  
Post Office Box 2088  
Santa Fe, New Mexico 87501

Re: San Juan 32-5 Unit #108  
Unorthodox Well Location  
2100' FNL, 100' FEL, Section 27, T32N, R6W  
Rio Arriba County, New Mexico

Dear Mr. Stogner:

Meridian Oil has requested administrative approval for an unorthodox gas well location in the Basin Fruitland Coal Pool for the referenced well (see attached). On August 11, 1988, the well was moved from its original orthodox location of 885' FNL, 790' FEL of section 27 at the request of the Bureau of Reclamation due to the well's close proximity to Navajo Lake. Extremely rough terrain makes the present unorthodox location the only possible location in the northeast quarter of this section.

In recent conversations with members of the NMOCD staff, Meridian has been asked to evaluate the feasibility of drilling directionally from the unorthodox surface location to an orthodox bottom hole wellbore location. The economic evaluation of a vertical well versus a directional well indicates both to be viable projects. The directional well is obviously less economic due to the substantially increased capital expenditure to be incurred, approximately \$100,000.

The table below illustrates the decrease in economic parameters due to this additional expenditure.

Economic Summary

<u>Parameters</u>	<u>Vertical Well Bottom Hole Location 2100' FNL, 100' FEL</u>	<u>Directional Well Bottom Hole Location 2100' FNL, 790' FEL</u>
Capital Expenditure (M\$)	396.291	496.891
Net Present Value (M\$)	520.3	308.6
Rate-of-Return (%)	30.3	20.95

In addition, there is a high degree of operational risk associated with a directional well which cannot be addressed in monetary terms.

Mr. Mike Stogner  
New Mexico Oil Conservation Division  
July 3, 1989  
Page Two

Re: San Juan 32-5 Unit #108  
Unorthodox Well Location

Meridian feels that without justification we would be negligent as a prudent operator, for El Paso Natural Gas Company, of the San Juan 32-5 Unit to unnecessarily commit to these expenditures and risks as well as the decrease in income.

We feel it is in the best interest of the San Juan 32-5 Unit owners to drill a vertical well at the proposed unorthodox location upon receiving your administrative approval. In light of the NMOCD's concern involving actual bottom hole location, Meridian agrees to run a continuous multi-shot directional survey from intermediate TD to the base of the surface casing. Upon completion of this survey, Meridian will immediately forward a copy of the results to your office.

Attached also is a waiver of objection to the unorthodox location from Northwest Pipeline Company, offset operator to the south of section 27.

If you have any questions, please do not hesitate to call me. Thank you for your consideration in this matter.

Very truly yours,

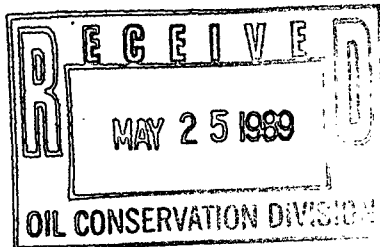


S. W. Nance

SWN:PWB:lgg  
Attachments

xc: D. C. Walker  
J. W. Caldwell

MERIDIAN OIL



*sent copy to  
E. Busch  
5/26/89*

August 12, 1988

Mr. William LeMay  
New Mexico Oil Conservation Division  
Post Office Box 2088  
Santa Fe, New Mexico 87501

Dear Mr. LeMay:

This is a request for administrative approval for an unorthodox gas well location in the Undesignated Fruitland Pool.

Application was made to locate the El Paso Natural Gas Company's San Juan 32-5 Unit #108 at 885' from the north line and 770' from the east line of Section 27, T-32-N, R-5-W, Rio Arriba County, New Mexico on June 13, 1988. This location has been moved to 2100' from the North line and 100' from the East line of Section 27, T-32-N, R-5-W, Rio Arriba County, New Mexico at the request of the Bureau of Reclamation.

Extremely rough terrain in the form of steep cliffs makes it impossible to build an orthodox location in the northeast quarter of this section.

El Paso Natural Gas Company is the operator of the San Juan 32-5 Unit.

Plats showing the proposed well location and the terrain in Section 27, along with an ownership plat, are attached.

Sincerely yours,

A handwritten signature in cursive script that reads "Peggy Bradfield".

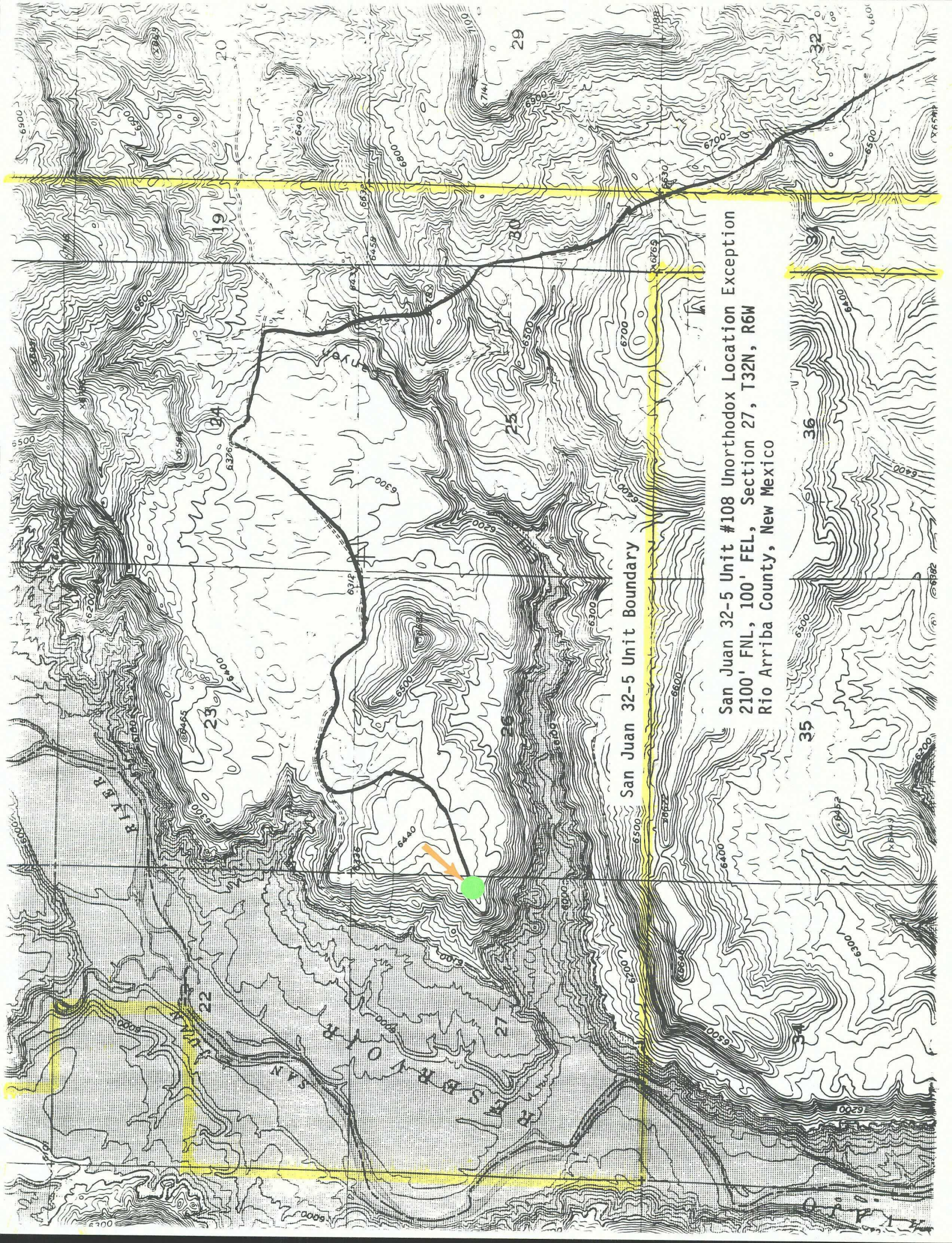
Peggy Bradfield

encl.

*5/26/89  
Called Peggy, in sending  
copy of Bureau of Re-  
clamation of well.*

*326-9700*





San Juan 32-5 Unit Boundary

San Juan 32-5 Unit #108 Unorthodox Location Exception  
2100' FNL, 100' FEL, Section 27, T32N, R6W  
Rio Arriba County, New Mexico



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

Operator El Paso Natural Gas		Lease San Juan 32-5 Unit		Well No. 108
Unit Letter H	Section 27	Township 32 North	Range 6 West	County (SF-079011A) Rio Arriba
Actual Footage Location of Well: 2100 feet from the North line and 100 feet from the East line				
Ground Level Elev. 6416'	Producing Formation Fruitland Coal	Pool Undesignated		Dedicated Acreage: 160 Acres

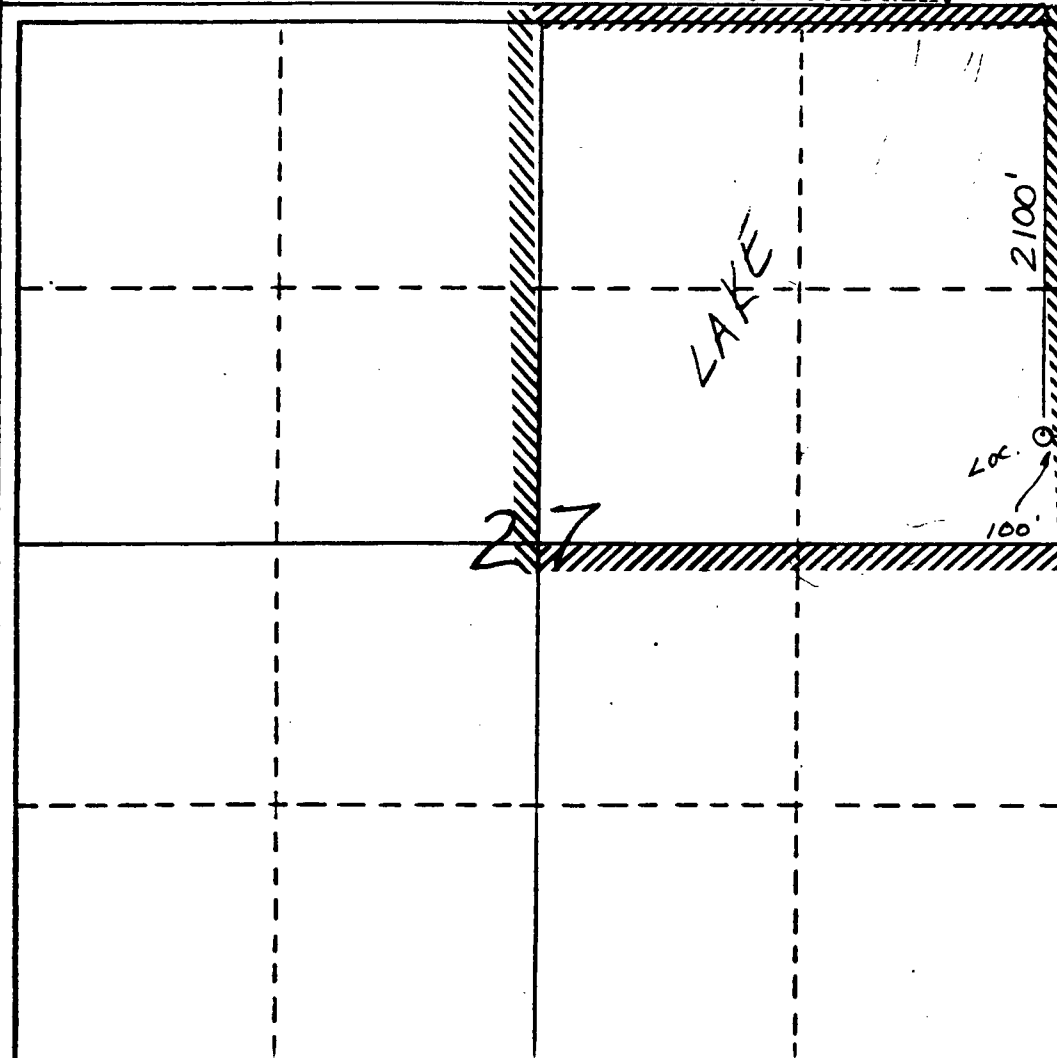
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is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

Yes  No If answer is "yes," type of consolidation unitization

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

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

\* Note: Non-standard location due to terrain. NOTE: reissued to show moved location 8-11-88



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

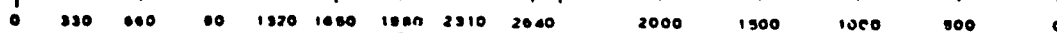
Name  
Regulatory Affairs  
Position  
El Paso Natural Gas  
Company  
Date

I hereby certify that the 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.

**NEALE C. EDWARDS**  
REGISTERED LAND SURVEYOR  
6857

Date Surveyed  
8-11-88  
Registered Professional Engineer and/or Land Surveyor  
Neale C. Edwards

Certificate No.  
6857



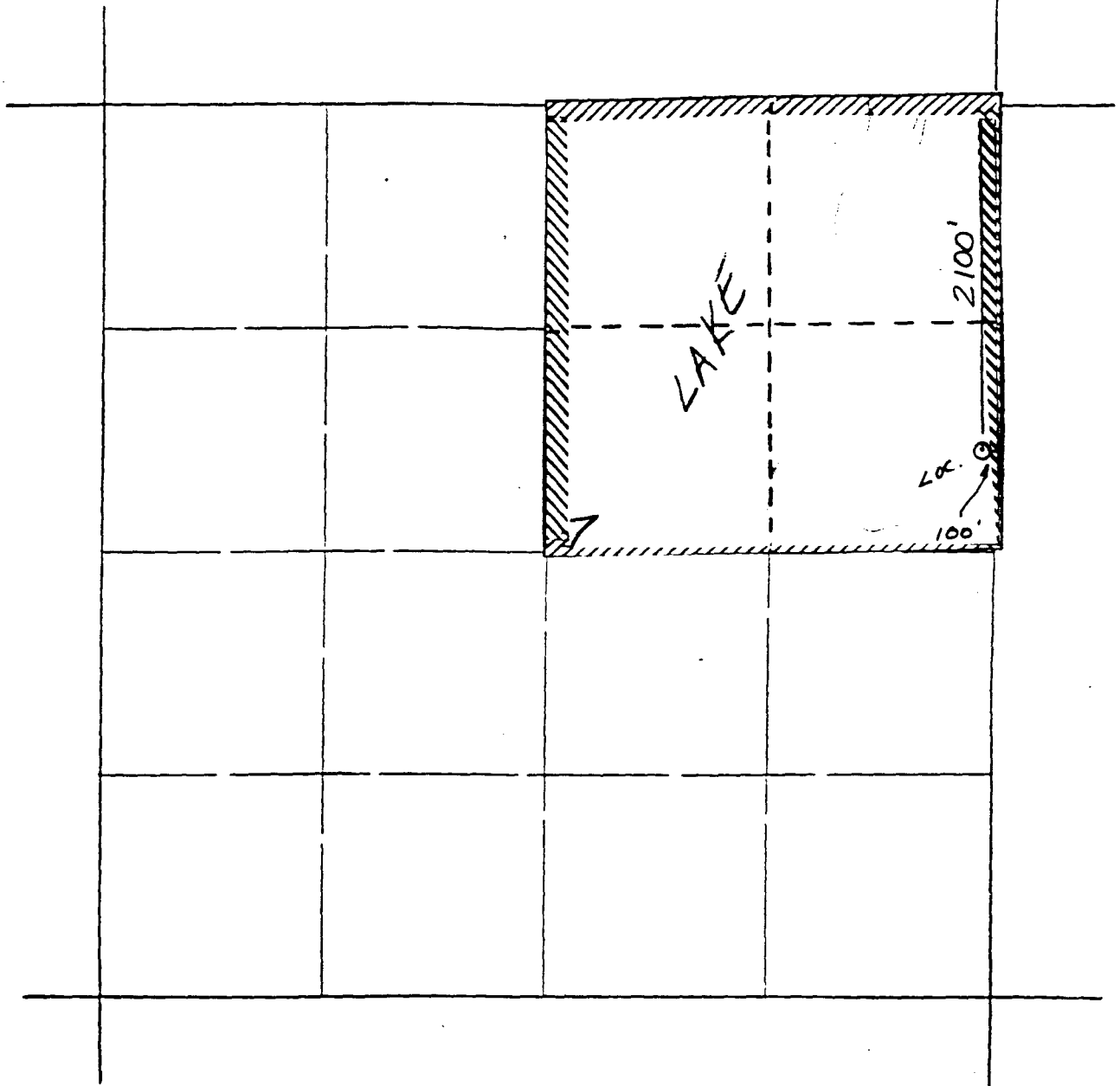
EL PASO NATURAL GAS COMPANY

Well Name San Juan 32-5 Unit #108, Undesignated Fruitland

Footage----- 885' FNL, 770' FEL

APPLICATION FOR NON-STANDARD LOCATION

County Rio Arriba State New Mexico Section 27 Township 32N Range 6W



REMARKS: All - El Paso Natural Gas Company, Operator of San Juan 32-5 Unit

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

(Other instructions on reverse side)

FORM BLM-4230-101 1985

1. LEASE DESIGNATION AND SERIAL NO.

SF-079011A

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.)

7. UNIT AGREEMENT NAME

San Juan 32-5 Unit

8. FARM OR LEASE NAME

San Juan 32-5 Unit

9. WELL NO.

108

10. FIELD AND POOL, OR WILDCAT

Basin Fruitland Coa.

11. SEC. T., R., N. OR S.E., AND

Sec. 27, T32N, R6W

NMPM

12. COUNTY OR PARISH

Rio Arriba

13. STATE

NM

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
El Paso Natural Gas Company

3. ADDRESS OF OPERATOR  
P.O. Box 4289, Farmington, NM 87499

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
See also space 17 below.)  
At surface 2100'N, 100'E

14. PERMIT NO. 15. ELEVATIONS (Show whether of, to, or from)  
6416'GL

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other) Revision

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(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 data, 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.\*

Attached is a copy of the C102 showing the revised pool & dedication.

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

SIGNED

*[Signature]*

TITLE

Regulatory Affairs

DATE

12-22-88

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side.

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

Form C-102  
Revised 10-1-78

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

Operator El Paso Natural Gas		Lease San Juan 32-5 Unit			Well No. 108
Unit Letter H	Section 27	Township 32 North	Range 6 West	County (SF-079011A) Rio Arriba	
Actual Footage Location of Well: 2100 feet from the North line and 100 feet from the East line					
Ground Level Elev. 6416'	Producing Formation Fruitland Coal	Pool Basin		Dedicated Acreage: 320 Acres	

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

Yes  No If answer is "yes," type of consolidation unitization

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

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

\* Note: Non-standard location due to terrain. NOTE: reissued to show moved location 8-11-88

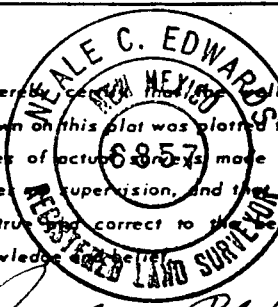
CERTIFICATION

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

Name  
Regulatory Affairs  
Position  
El Paso Natural Gas  
Company

Date

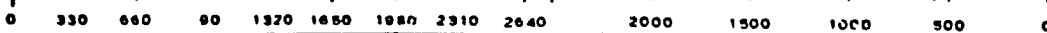
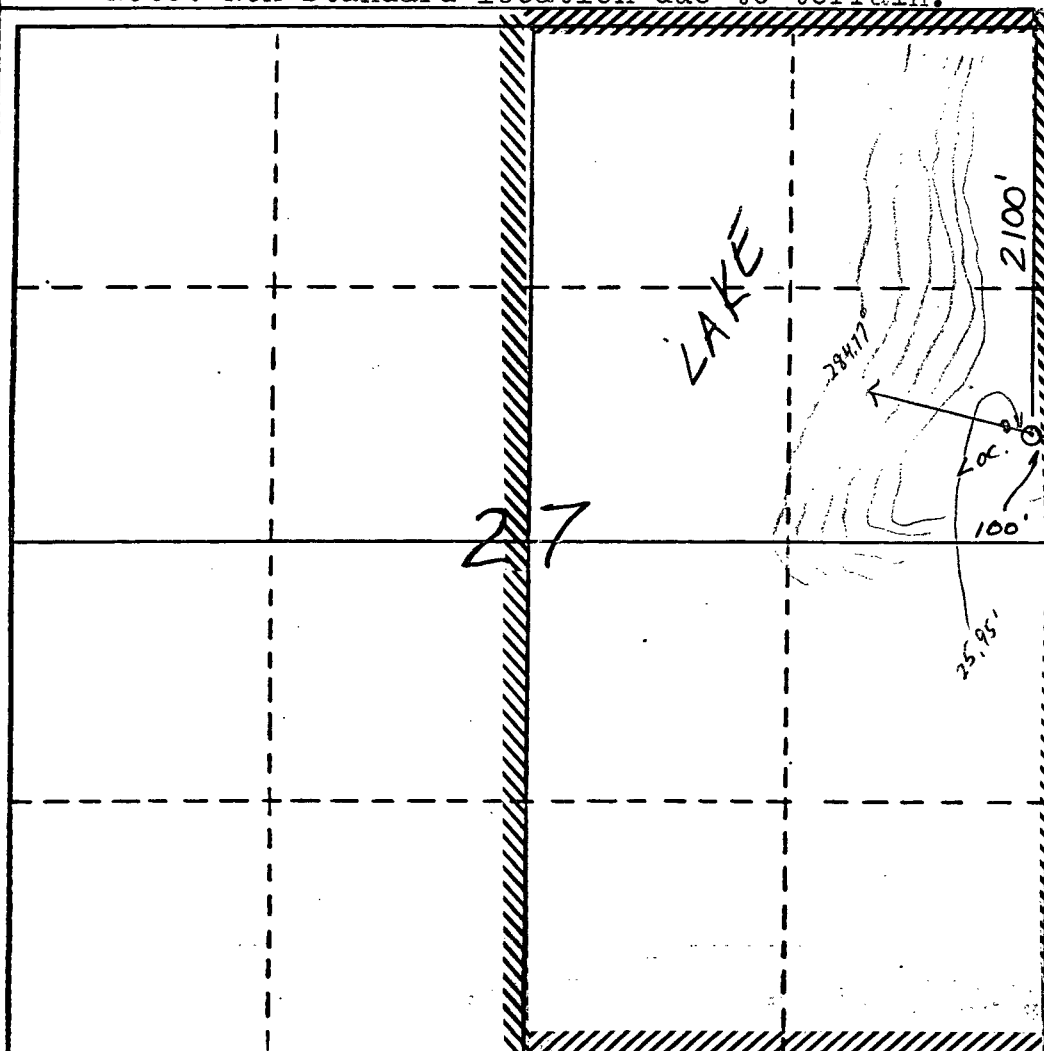
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.



Date Surveyed  
8-11-88  
Registered Professional Engineer  
and/or Land Surveyor

Neale C. Edwards

Certificate No.  
6857





**MERIDIAN OIL**

Well Name SAN JUAN 32-5 UNIT #108  
Location NE-27-32-6 2100'N 100'E  
Formation FC

We, the undersigned, have inspected this location and road.

Steven R. Sacks  
Bureau of Reclamation Representative

8/22/88  
Date

U.S. Forest Service Representative  
Patricia Welles Buchanan (Archaeological Consultants)  
Archaeologist

\_\_\_\_\_  
Date  
\_\_\_\_\_  
Date

Bureau of Indian Affairs Representative  
Don Ellsworth  
Bureau of Land Management Representative  
AGREES TO THE FOOTAGE LOCATION OF THIS WELL.

\_\_\_\_\_  
Date  
8/22/88  
Date

Reason:

Seed Mixture: I

Equipment Color: Green

Road and ROW (Same) or (Separate)

Remarks: Steps will be on APP. SRS  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

32-5 108

● **SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.  
Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1.  Show to whom delivered, date, and addressee's address. †(Extra charge)†  
2.  Restricted Delivery †(Extra charge)†

3. Article Addressed to: <i>NWP</i>	4. Article Number
Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail	
Always obtain signature of addressee or agent and <b>DATE DELIVERED.</b>	
5. Signature - Addressee <i>X Helen A. Vicenti</i>	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature - Agent <i>X</i>	
7. Date of Delivery <i>6-27-89</i>	

# MERIDIAN OIL

June 27, 1989

Mr. William LeMay  
New Mexico Oil Conservation Division  
Post Office Box 2088  
Santa Fe, New Mexico 87504

Dear Mr. LeMay:

This is a request for administrative approval for an unorthodox gas well location in the Basin Fruitland Coal Pool.

The El Paso Natural Gas Company San Juan 32-5 Unit #108 is located at 2100' from the North line and 100' from the East line of Section 27, T-32-N, R-6-W, Rio Arriba County, New Mexico.

Application was made on August 12, 1988 for this unorthodox location, on a 160 acre dedication. This application is only to amend the 160 dedication to show the 320 acre dedication.

A copy of this application is being submitted to all offset operators by certified mail with a request that they furnish your Santa Fe office with a Waiver of Objection, and return one copy to this office.

Plats showing the proposed well location and the terrain in Section 27, along with an ownership plat, are attached.

Sincerely yours, <



Peggy Bradfield

encl.

## WAIVER

Northwest Pipeline Corp hereby waives objection to El Paso Natural Gas application for an unorthodox location for their San Juan 32-5 Unit #108 as proposed above.

By: Paul C. Thompson

Date: 6/28/89

xc: Northwest Pipeline Corp



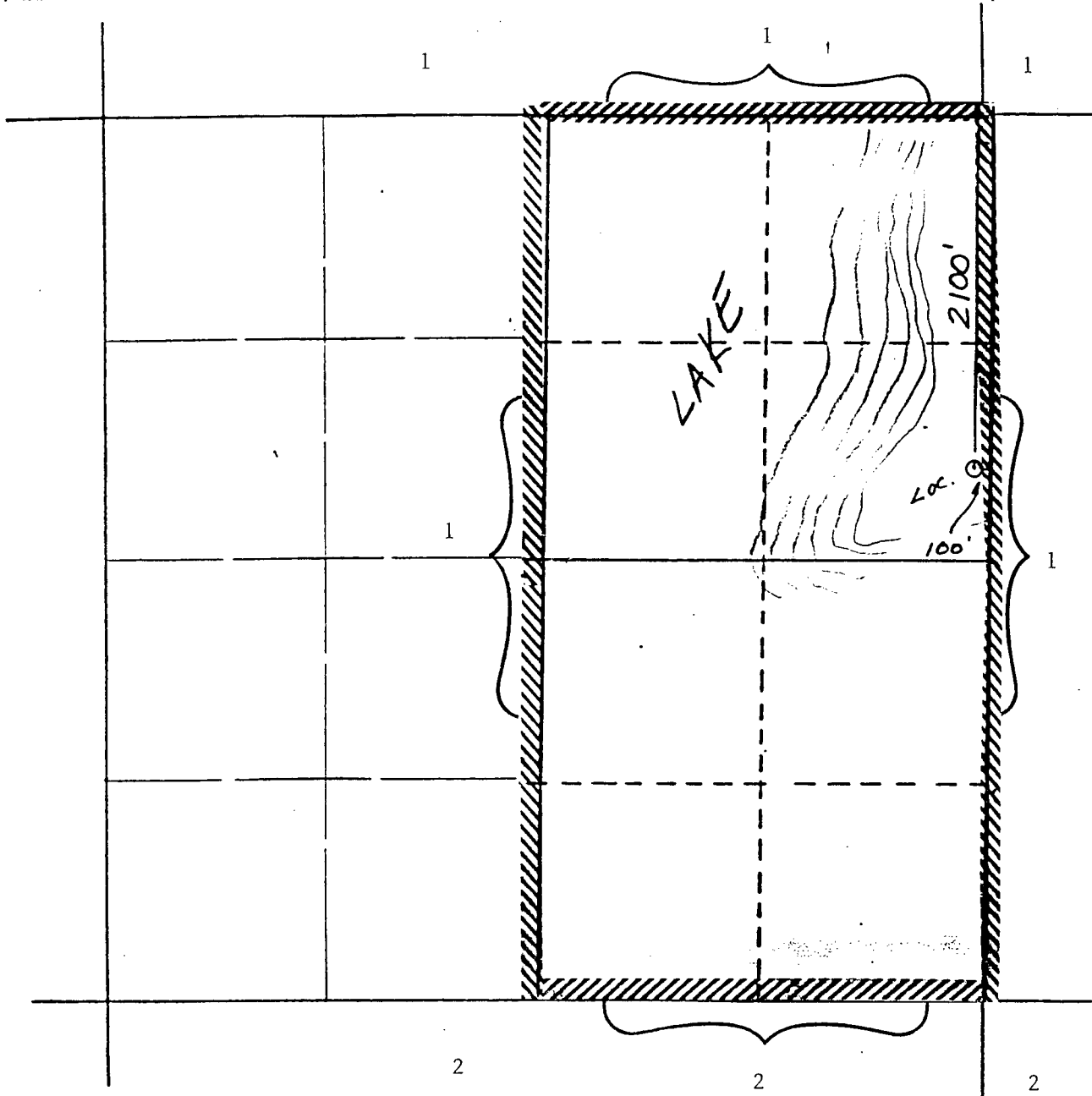
EL PASO NATURAL GAS COMPANY

Well Name San Juan 32-5 Unit #108, Fruitland Coal

Footage----- 2100' FNL, 100' FEL

APPLICATION FOR NON-STANDARD LOCATION

County Rio Arriba State New Mexico Section 27 Township 32N Range 6W



REMARKS:

(1) El Paso Natural Gas Company, San Juan 32-5 Unit Operator

(2) Northwest Pipeline Corporation, Rosa Unit Operator

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

Form C-102  
Revised 10-

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

Operator El Paso Natural Gas		Lease San Juan 32-5 Unit		Well No. 108
Unit Letter H	Section 27	Township 32 North	Range 6 West	County (SF-079011A) Rio Arriba
Actual Footage Location of Wells: 2100 feet from the North line and 100 feet from the East line				
Ground Level Elev. 6416'	Producing Formation Fruitland Coal	Pool Basin		Dedicated Acreage: 320

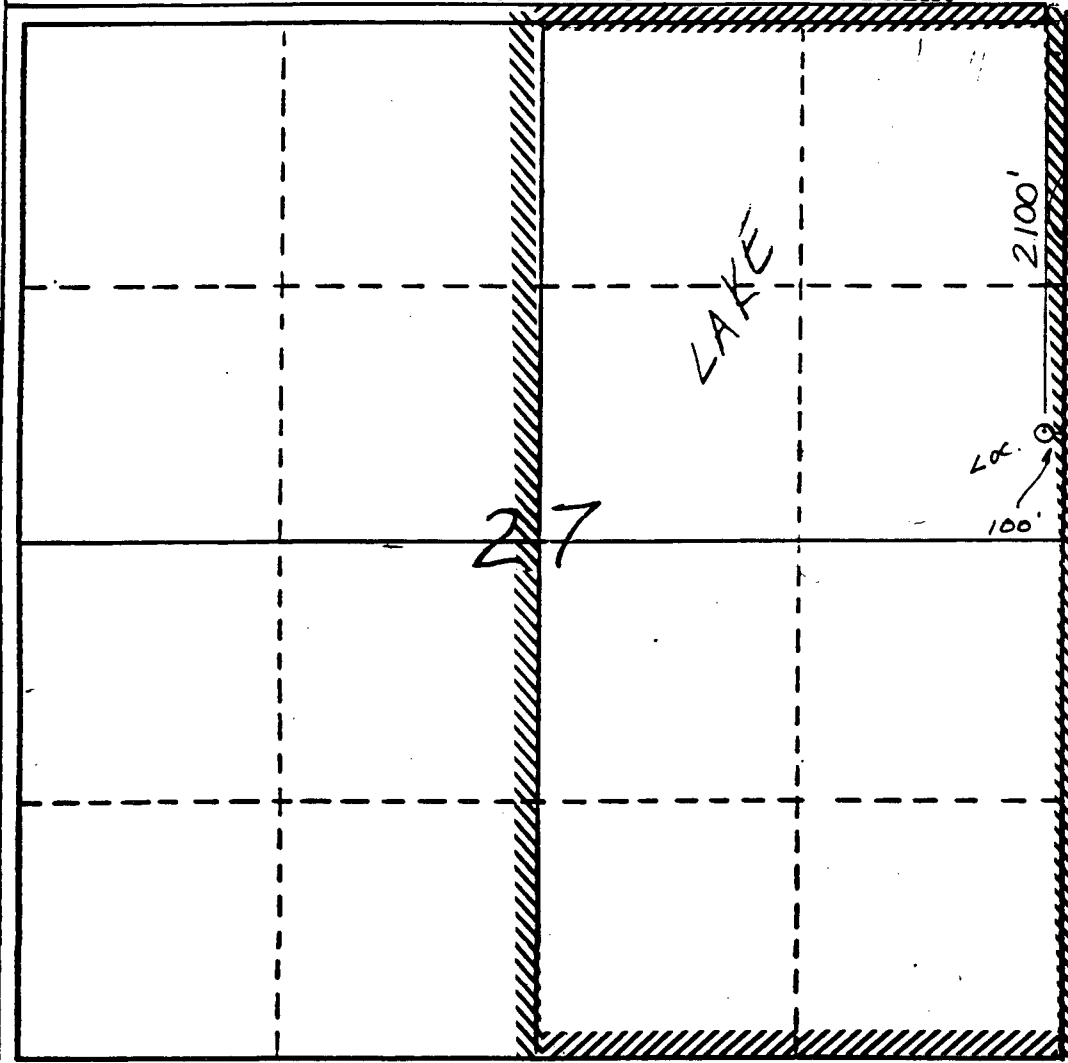
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3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc.?

Yes  No If answer is "yes," type of consolidation unitization

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

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

\* Note: Non-standard location due to terrain. NOTE: reissued to show move location 8-11-88



**CERTIFICATION**

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

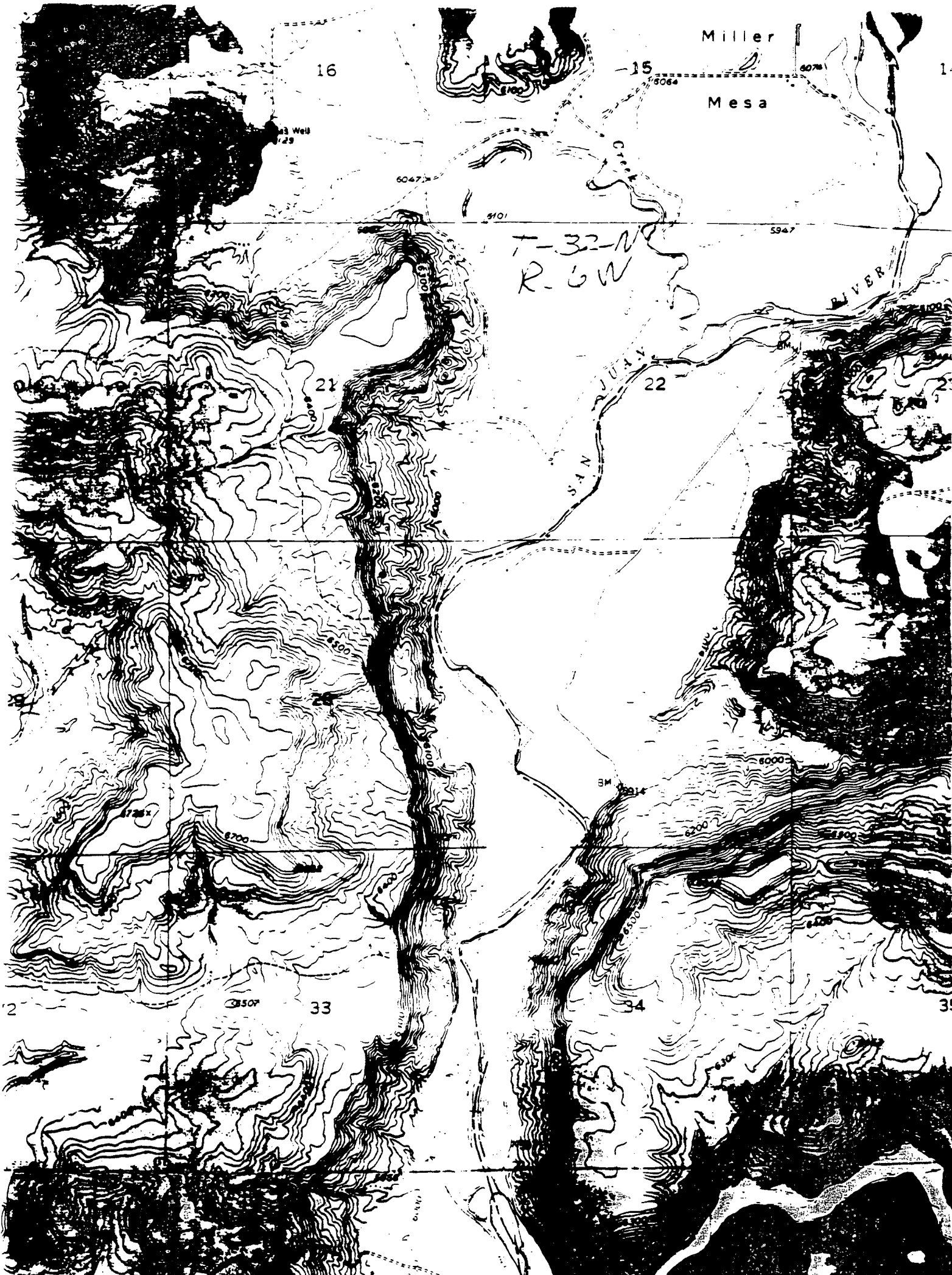
*J. Bradford*  
Name  
Regulatory Affairs  
Position  
El Paso Natural Gas  
Company  
12-22-88  
Date

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

**NEALE C. EDWARDS**  
REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR  
NEW MEXICO  
6857

*Neale C. Edwards*  
Date Surveyed: 8-11-88  
Registered Professional Engineer and/or Land Surveyor  
Neale C. Edwards  
Certificate No.: 6857







MERIDIAN OIL

July 24, 1989

RECEIVED

JUL 26 1989

OIL CONSERVATION DIV.  
SANTA FE

State of New Mexico  
Energy and Minerals Department  
Oil Conservation Division  
P.O. Box 2088  
Santa Fe, NM 87501

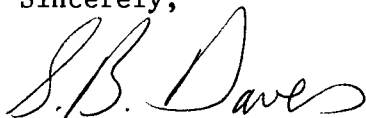
Attn: Mr. William J. Lemay, Examiner

Re: Order No. NSL-2676  
San Juan 32-5 Unit #108

Mr. Lemay:

Enclosed are the results of a directional survey conducted July 23, 1989, on the subject well. Multi-shot directional survey points were observed from the total depth to the base of the 9 5/8" surface casing. This was conducted to meet the requirements of Order No. NSL-2676 prior to initiating completion operations.

Sincerely,



S. B. Daves  
Project Drilling Engineer

SBD/adw

xc: Aztec OCD

DEVIATION REPORT

El Paso Natural Gas Co., Post Office Box 4289, Farmington, NM 87499

Lease: San Juan 32-5 Unit #108  
NE Sec. 27, T-32-N, R-6-W, Rio Arriba County, New Mexico

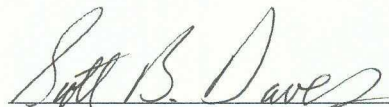
Pool: Basin Fruitland Coal

Multi-shot directional survey conducted July 23, 1989

Closure: Distance 25.95', Direction 284.17° (True North)

<u>Survey Depth (Ft.)</u>	<u>Inclination</u>	<u>Hole Direction (True North)</u>	<u>True Vertical Depth (Ft.)</u>
394	0.00	0	394.00
447	0.15	271.5	447.00
540	0.30	177.5	540.00
633	0.30	178.5	632.99
725	0.30	142.5	724.99
818	0.45	239.5	817.99
911	0.45	246.5	910.98
1003	0.30	279.5	1002.97
1096	0.45	270.5	1095.97
1189	0.45	283.5	1188.96
1281	1.00	335.5	1280.95
1374	1.00	315.5	1373.93
1466	0.45	286.5	1465.92
1559	1.00	269.5	1558.91
1652	0.45	261.5	1651.90
1744	0.30	301.5	1743.89
1837	0.15	287.5	1836.89
1930	0.15	174.5	1929.89
2022	0.15	181.5	2021.89
2115	0.15	335.5	2114.89
2208	0.45	325.5	2207.89
2300	0.30	346.5	2299.88
2393	1.00	277.5	2392.87
2486	1.15	276.5	2485.85
2578	1.00	312.5	2577.84
2671	0.45	297.5	2670.83
2763	1.00	281.5	2762.81
2856	1.00	292.5	2855.80
2949	1.00	274.5	2948.79
3041	1.00	285.5	3040.77
3134	1.00	319.5	3133.76

I, the undersigned, certify that I, acting in my capacity as Petroleum Engineer on behalf of El Paso Natural Gas Company, am authorized by said Company to make this report; and that this report was prepared by me or under my supervision and directions and that the facts stated herein are true to the best of my knowledge and belief.



Subscribed and sworn to before me this 24th day of July, 1989.



Notary Public in and for San Juan County, New Mexico  
My commission expires September 21, 1992.



STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-6170

OIL CONSERVATION DIVISION  
BOX 2088  
SANTA FE, NEW MEXICO 87501

DATE 8-18-88

RE: Proposed MC \_\_\_\_\_  
Proposed DIIC \_\_\_\_\_  
Proposed NSL X \_\_\_\_\_  
Proposed SWD \_\_\_\_\_  
Proposed WFX \_\_\_\_\_  
Proposed PMX \_\_\_\_\_

RECEIVED

JUL 17 1989

OIL CONSERVATION DIV.  
SANTA FE

Gentlemen:

I have examined the application dated 8-15-88

for the MERIDIAN OIL INC. S.J. 32-5 Unit # 108 H-27-32N-6w  
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

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

Yours truly,

Ernst Busch



# MERIDIAN OIL

June 13, 1988

Mr. William LeMay  
New Mexico Oil Conservation Division  
Post Office Box 2088  
Santa Fe, New Mexico 87501

Dear Mr. LeMay:

This is a request for administrative approval for an unorthodox gas well location in the Undesignated Fruitland Pool.

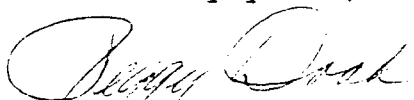
It is intended to locate the El Paso Natural Gas Company's San Juan 32-5 Unit #108 at 885' from the north line and 770' from the east line of Section 27, T-32-N, R-5-W, Rio Arriba County, New Mexico.

Extremely rough terrain in the form of steep cliffs makes it impossible to build an orthodox location in the northeast quarter of this section.

El Paso Natural Gas Company is the operator of the San Juan 32-5 Unit.

Plats showing the proposed well location and the terrain in Section 27, along with an ownership plat, are attached.

Sincerely yours,



Peggy Doak

encl.

11-1000  
(November 1983)  
(Formerly 9-331)

DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

(Other instructions on reverse side)

REVISED AUGUST 31, 1985

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 <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		3. LEASE DESIGNATION AND SERIAL NO. SF-079011A
2. NAME OF OPERATOR El Paso Natural Gas Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. Box 4289, Farmington, NM 87499		7. UNIT AGREEMENT NAME San Juan 32-5 Unit
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 2100'N, 100'E		8. FARM OR LEASE NAME San Juan 32-5 Unit
14. PERMIT NO.	15. ELEVATIONS (Show whether of, to, or from.) 6416'GL	9. WELL NO. 108
		10. FIELD AND POOL, OR WILDCAT Basin Fruitland Co
		11. SEC. T. R. M. OR B.L. AND SURVEY OR AREA Sec. 27, T32N, R6W NMPM
		12. COUNTY OR PARISH 13. STATE Rio Arriba NM

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SECT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SECT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(Other) Revision

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

17. OPERATIONS 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.\*

Attached is a copy of the C102 showing the revised pool & dedication.

18. I hereby certify that the foregoing is true and correct  
SIGNED [Signature] TITLE Regulatory Affairs DATE 12-22-88  
(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

Form C-102  
Revised 10-1

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

Operator El Paso Natural Gas		Lease San Juan 32-5 Unit		Well No. 108
Unit Letter H	Section 27	Township 32 North	Range 6 West	County (SF-079011A) Rio Arriba
Actual Footage Location of Well: 2100 feet from the North line and 100 feet from the East line				
Ground Level Elev. 6416'	Producing Formation Fruitland Coal	Pool Basin	Dedicated Acreage: 320 Ac.	

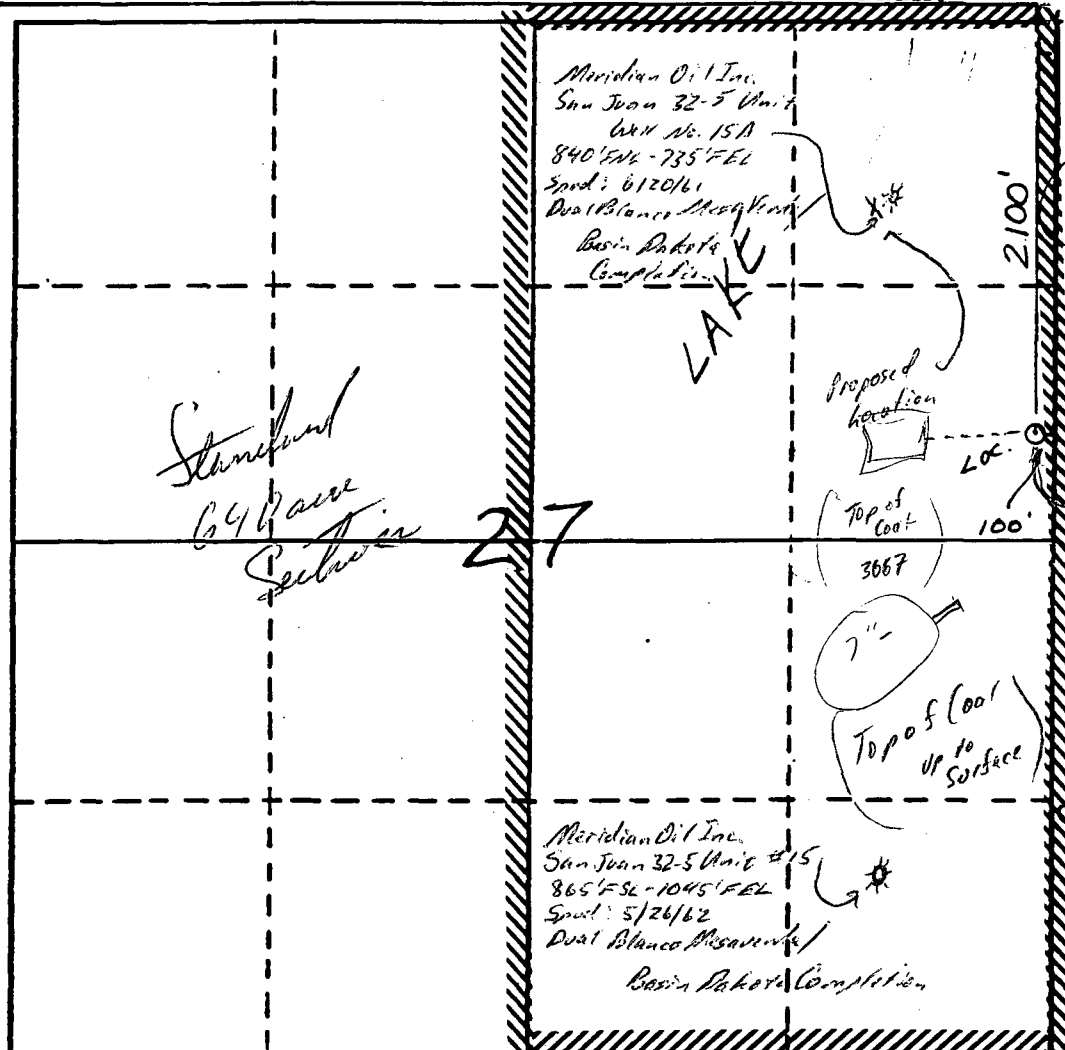
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to work interest and royalty).
3. If more than one lease of different ownership is dedicated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

Yes  No If answer is "yes," type of consolidation unitization

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

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

\* Note: Non-standard location due to terrain. NOTE: reissued to show move location 8-11-88



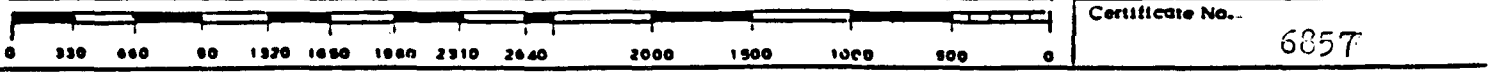
CERTIFICATION

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

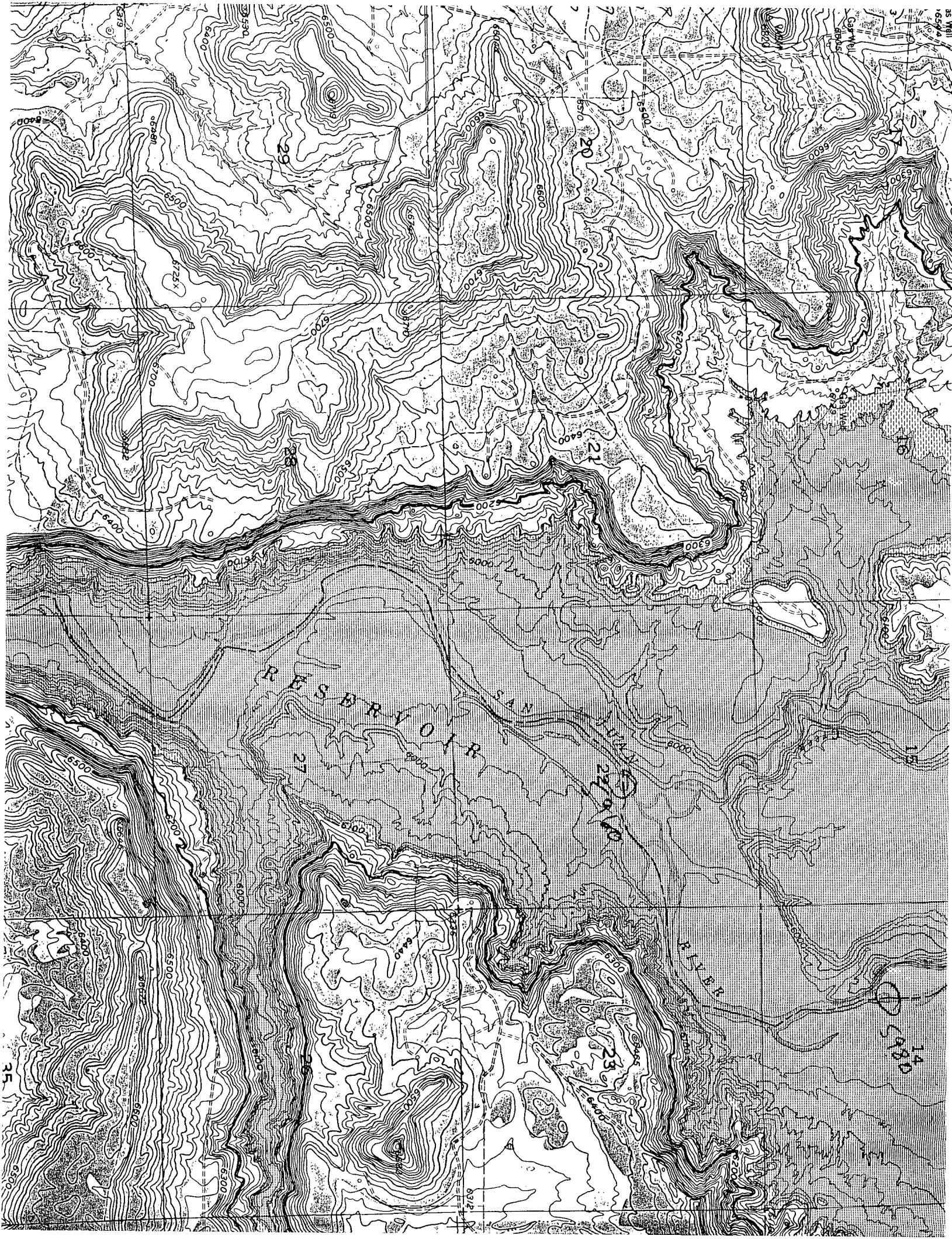
*J. Bradford*  
Name  
Regulatory Affairs  
Position  
El Paso Natural Gas  
Company  
12-22-88  
Date

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

**NEALE C. EDWARDS**  
Date Surveyed  
8-11-88  
Registered Professional Engineer and/or Land Surveyor  
Neale C. Edwards  
Certificate No. 6857







MERIDIAN OIL

RECEIVED

JUL - 2 1989

June 30, 1989

OIL CONSERVATION DIV.  
SANTA FE

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

Attn: Mike Stogner

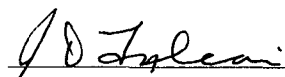
Re: San Juan 32-5 Unit #108  
Unorthodox Location Approval

Dear Mike:

In reference to our conversation June 30, 1989, attached please find a vicinity map showing the subject well and existing Fruitland Coal wells in the San Juan 32-5 Unit (Reference Page 1). Information obtained from drilling the San Juan 32-5 Unit #100 Horizontal Fruitland Coal well indicates the regional dip to be 2° in a southeasterly direction. In addition, the multi-shot survey on this well from kick off point to surface (Reference Page 2) indicates the drill bit had a tendency to walk up dip in a northwesterly direction.

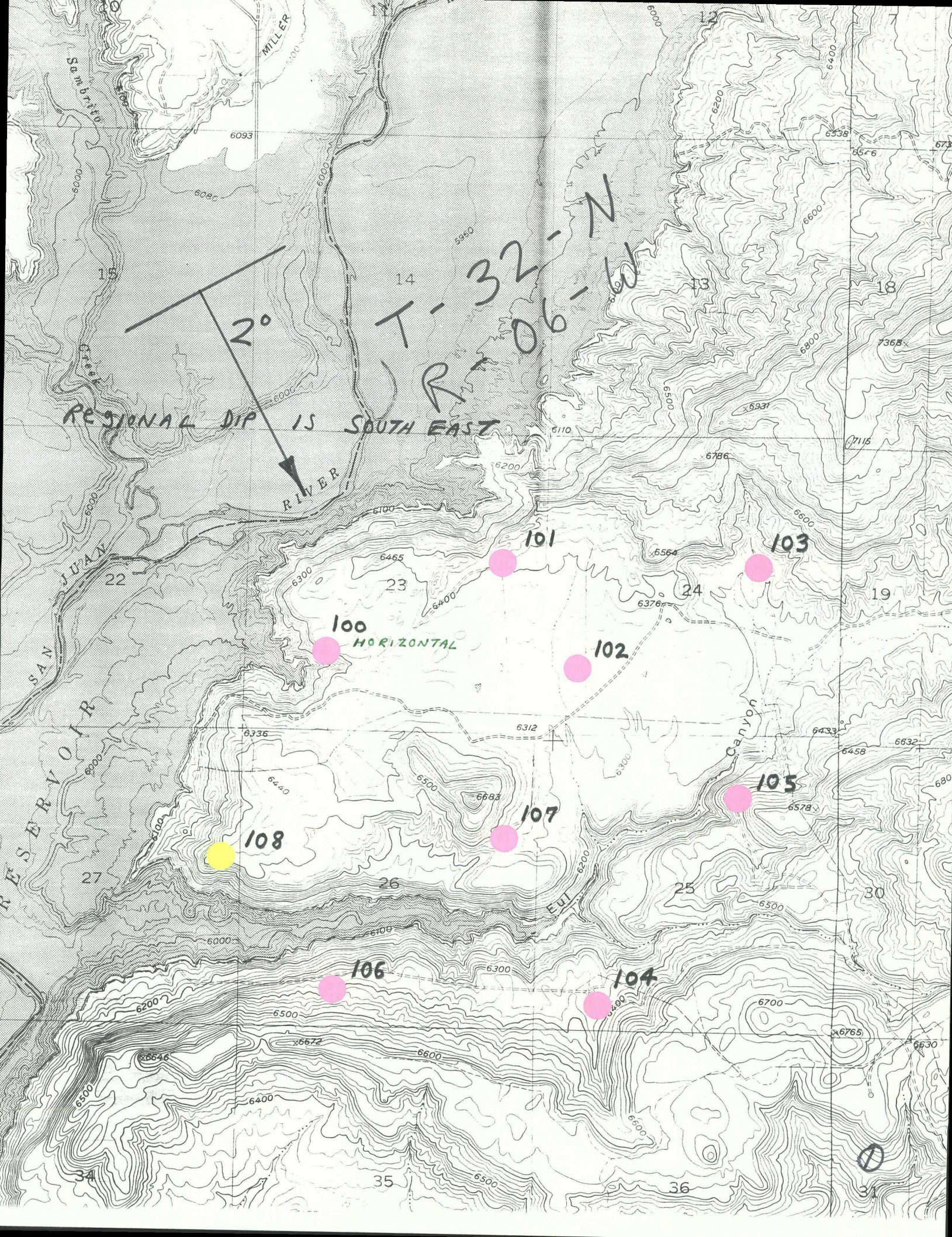
Pages three and four are tabulations of deviation reports on existing Fruitland Coal wells in the San Juan 32-5 Unit. The deviation reports are inclination only and do not include azimuth. However, the worst case scenario assuming deviation azimuth was consistently in the same direction indicates the bottom hole location of the wells would fall within a 27' to 42' radius of the surface location.

If you have any questions or require additional information, please contact our office. Your cooperation is appreciated.

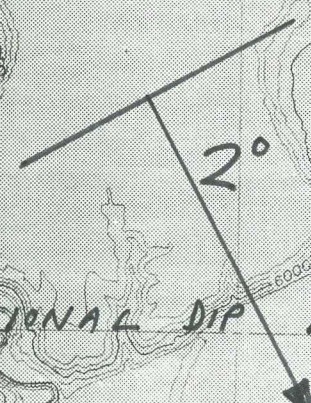
  
\_\_\_\_\_  
J. D. Falconi

xc: D. C. Walker  
Well File





REGIONAL DIP IS SOUTH EAST



T-32-N  
R-06-W

HORIZONTAL

100

101

103

102

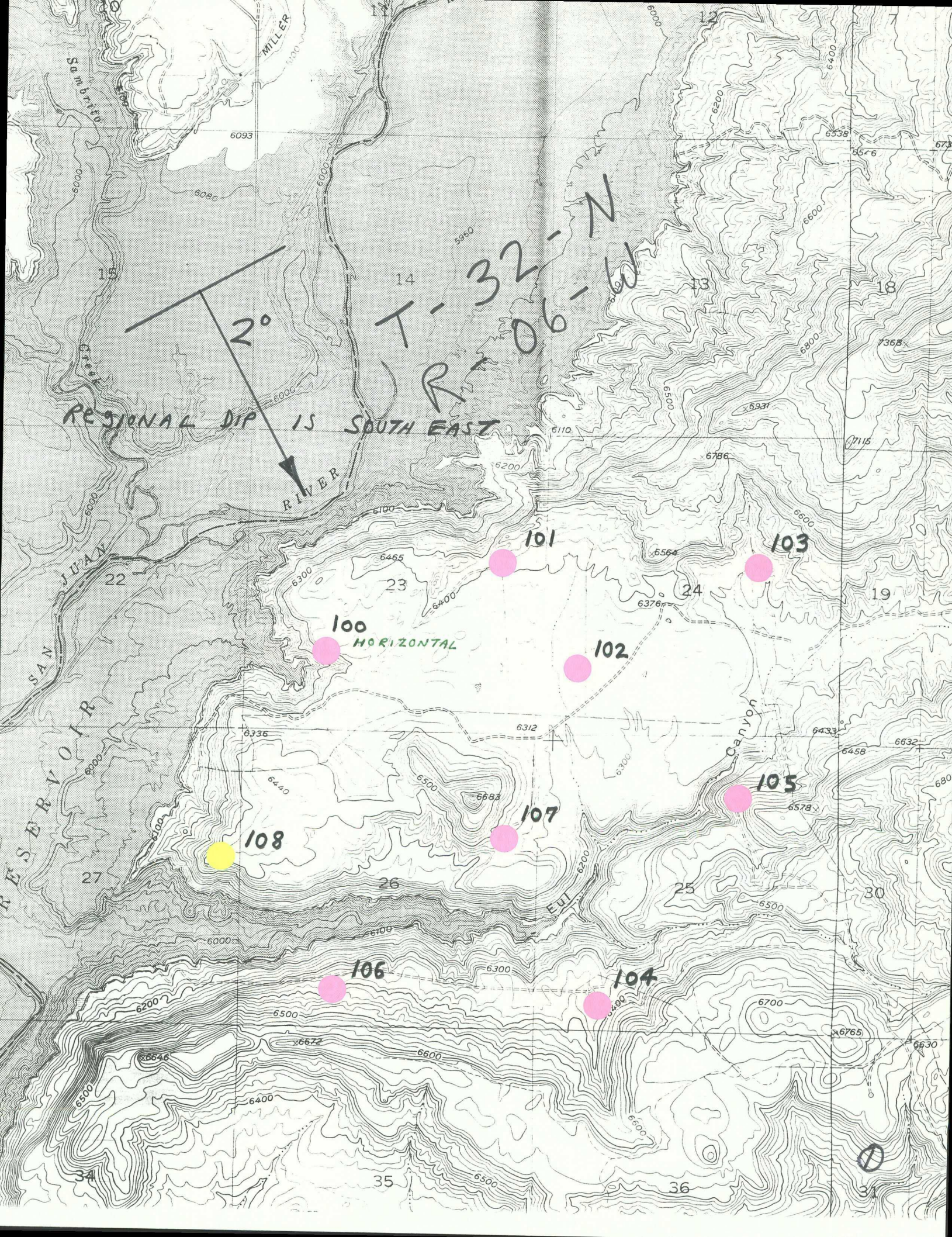
105

108

107

106

104





Date: 11/14/1988 Time: 12:29:36 170471-SHO1  
 Filename: "SJAUNMSH.SRV" Description: "LATERAL TR-99DEG"  
 Target Coordinates: 4.7 S 0.0 E Target T: 2962.000  
 Using Minimum Curvature Method.

PAGE

SAN JUAN 32-5 UNIT # 100  
 TRUE

S #	MEASURED DEPTH (feet)	DRIFT ANGLE (deg)	DRIFT DIRECTION (deg)	COURSE LENGTH (feet)	VERTICAL DEPTH (feet)	VERTICAL SECTION (feet)	RECTANGULAR COORDINATES (feet)	DOGLEG -SEVERITY DG/100FT
0	0.0	0.00	360.000	0.0	0.0	0.0	0.0 N	0.0 E 0.00
1	748.0	1.00	328.000	748.0	748.0	-5.5	5.5 N	3.5 W 0.13
2	811.0	0.75	360.000	63.0	811.0	-6.4	6.4 N	3.8 W 0.86
3	873.0	1.00	350.000	62.0	872.9	-7.4	7.4 N	3.8 W 0.47
4	936.0	1.00	356.000	63.0	935.9	-8.4	8.4 N	4.0 W 0.17
5	998.0	1.00	33.000	62.0	997.9	-9.4	9.4 N	3.7 W 1.02
6	1061.0	1.00	13.000	63.0	1060.9	-10.4	10.4 N	3.3 W 0.55
7	1123.0	0.75	2.000	62.0	1122.9	-11.4	11.4 N	3.2 W 0.48
8	1186.0	1.00	9.000	63.0	1185.9	-12.3	12.3 N	3.1 W 0.43
9	1248.0	1.00	28.000	62.0	1247.9	-13.3	13.3 N	2.7 W 0.53
10	1311.0	1.25	28.000	63.0	1310.9	-14.4	14.4 N	2.1 W 0.40
11	1373.0	1.25	13.000	62.0	1372.9	-15.7	15.7 N	1.7 W 0.53
12	1436.0	1.25	27.000	63.0	1435.9	-17.0	17.0 N	1.2 W 0.48
13	1498.0	1.25	10.000	62.0	1497.8	-18.2	18.2 N	0.8 W 0.60
14	1561.0	1.50	5.000	63.0	1560.8	-19.7	19.7 N	0.6 W 0.44
15	1623.0	1.25	350.000	62.0	1622.8	-21.2	21.2 N	0.6 W 0.70
16	1686.0	1.25	342.000	63.0	1685.8	-22.5	22.5 N	1.0 W 0.28
17	1748.0	1.50	331.000	62.0	1747.8	-23.9	23.9 N	1.6 W 0.58
18	1811.0	1.50	347.000	63.0	1810.7	-25.4	25.4 N	2.2 W 0.60
19	1873.0	1.50	331.000	62.0	1872.7	-26.9	26.9 N	2.7 W 0.60
20	1936.0	1.75	331.000	63.0	1935.7	-28.5	28.5 N	3.6 W 0.40
21	1998.0	1.50	323.000	62.0	1997.7	-30.0	30.0 N	4.5 W 0.50
22	2061.0	1.50	321.000	63.0	2060.7	-31.2	31.2 N	5.6 W 0.00
23	2123.0	1.50	321.000	62.0	2122.6	-32.5	32.5 N	6.6 W 0.00
24	2186.0	1.50	320.000	63.0	2185.6	-33.8	33.8 N	7.6 W 0.00
25	2248.0	1.50	320.000	62.0	2247.6	-35.0	35.0 N	8.7 W 0.00
26	2310.0	1.25	350.000	62.0	2309.6	-36.3	36.3 N	9.3 W 1.20
27	2373.0	1.75	346.000	63.0	2372.6	-37.9	37.9 N	9.7 W 0.80

--- Final Closure Direction: 345.701  
 --- Final Closure Distance: 39.137 feet

MWD By: J. D. Falconi				06/29/89	
San Juan 32-5 Unit #101				Rectangular	
Measured	True Vert	Inclin	Azimuth	Coordinates	
Depth	Depth	Degrees	Degrees	North	East
0.00	0.00	0.00	90.00	0.00	0.00
515.00	514.99	0.75	90.00	0.00	3.37
1021.00	1020.94	0.75	90.00	0.00	9.99
1522.00	1521.91	0.50	90.00	0.00	15.46
2050.00	2049.88	0.75	90.00	0.00	21.22
2550.00	2549.84	0.75	90.00	0.00	27.76
2985.00	2984.79	1.00	90.00	0.00	34.41

MWD By: J. D. Falconi				06/29/89	
San Juan 32-5 Unit #102				Rectangular	
Measured	True Vert	Inclin	Azimuth	Coordinates	
Depth	Depth	Degrees	Degrees	North	East
0.00	0.00	0.00	90.00	0.00	0.00
222.00	222.00	0.25	90.00	0.00	0.48
814.00	813.99	0.50	90.00	0.00	4.36
1493.00	1492.93	1.00	90.00	0.00	13.25
2081.00	2080.84	1.00	90.00	0.00	23.51
2574.00	2573.76	1.00	90.00	0.00	32.12
2965.00	2964.70	1.00	90.00	0.00	38.95

MWD By: J. D. Falconi				06/29/89	
San Juan 32-5 Unit #103				Rectangular	
Measured	True Vert	Inclin	Azimuth	Coordinates	
Depth	Depth	Degrees	Degrees	North	East
0.00	0.00	0.00	90.00	0.00	0.00
243.00	242.99	0.75	90.00	0.00	1.59
745.00	744.95	0.75	90.00	0.00	8.16
1247.00	1246.92	0.50	90.00	0.00	13.64
1558.00	1557.90	0.75	90.00	0.00	17.03
2055.00	2054.86	0.75	90.00	0.00	23.54
2550.00	2549.82	0.75	90.00	0.00	30.01
2922.00	2921.77	1.00	90.00	0.00	35.70

MWD By: J. D. Falconi				06/29/89	
San Juan 32-5 Unit #104				Rectangular	
Measured	True Vert	Inclin	Azimuth	Coordinates	
Depth	Depth	Degrees	Degrees	North	East
0.00	0.00	0.00	90.00	0.00	0.00
410.00	409.99	0.75	90.00	0.00	2.68
934.00	933.94	0.75	90.00	0.00	9.54
1523.00	1522.89	0.75	90.00	0.00	17.25
2016.00	2015.85	0.75	90.00	0.00	23.71
2509.00	2508.81	0.75	90.00	0.00	30.16
3050.00	3049.76	0.75	90.00	0.00	37.24



MWD By: J. D. Falconi				06/29/89	
San Juan 32-5 Unit #105				Rectangular	
Measured	True Vert	Inclin	Azimuth	Coordinates	
Depth	Depth	Degrees	Degrees	North	East
0.00	0.00	0.00	90.00	0.00	0.00
498.00	497.97	1.00	90.00	0.00	4.35
994.00	993.92	0.75	90.00	0.00	11.92
1522.00	1521.87	0.75	90.00	0.00	18.83
2051.00	2050.83	0.75	90.00	0.00	25.76
2553.00	2552.78	0.75	90.00	0.00	32.33
3025.00	3024.73	1.00	90.00	0.00	39.53

MWD By: J. D. Falconi				06/29/89	
San Juan 32-5 Unit #106				Rectangular	
Measured	True Vert	Inclin	Azimuth	Coordinates	
Depth	Depth	Degrees	Degrees	North	East
0.00	0.00	0.00	90.00	0.00	0.00
415.00	414.99	0.50	90.00	0.00	1.81
934.00	933.96	0.75	90.00	0.00	7.47
1245.00	1244.94	0.75	90.00	0.00	11.54
1704.00	1703.90	0.75	90.00	0.00	17.55
2417.00	2416.79	1.25	90.00	0.00	29.99
3040.00	3039.67	1.00	90.00	0.00	42.23

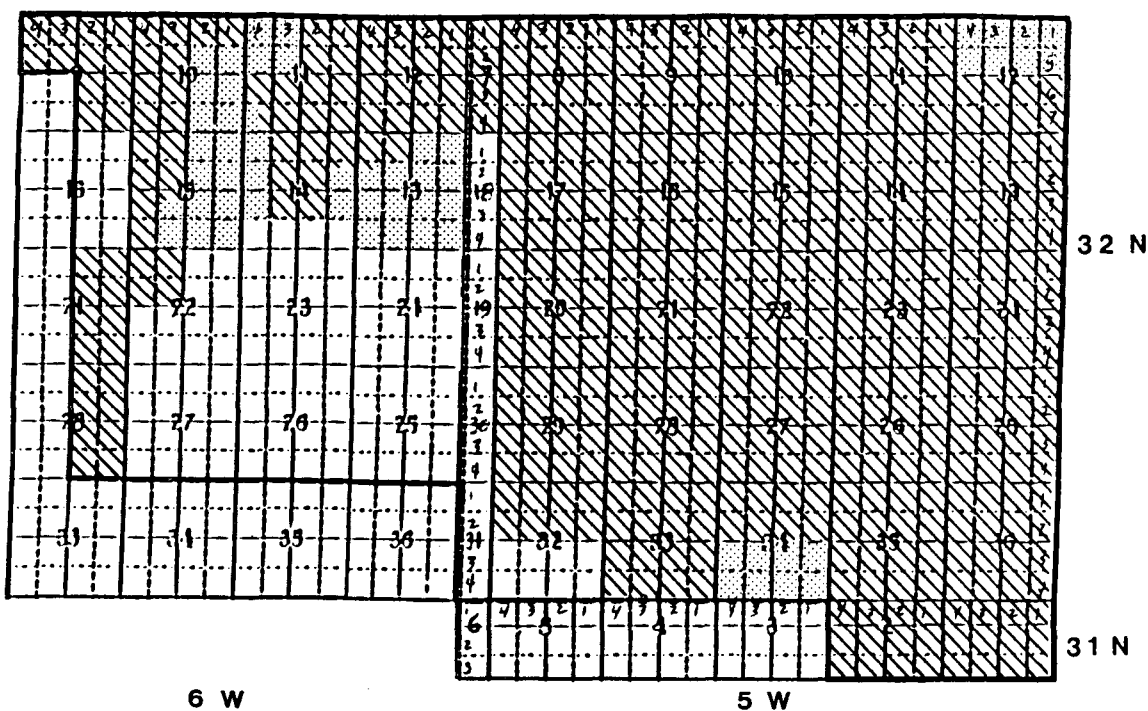
MWD By: J. D. Falconi				06/29/89	
San Juan 32-5 Unit #107				Rectangular	
Measured	True Vert	Inclin	Azimuth	Coordinates	
Depth	Depth	Degrees	Degrees	North	East
0.00	0.00	0.00	90.00	0.00	0.00
231.00	231.00	0.50	90.00	0.00	1.01
720.00	719.98	0.50	90.00	0.00	5.28
1210.00	1209.96	0.50	90.00	0.00	9.55
1764.00	1763.94	0.50	90.00	0.00	14.39
1961.00	1960.93	0.75	90.00	0.00	16.53
2477.00	2476.90	0.50	90.00	0.00	22.16
2995.00	2994.86	0.75	90.00	0.00	27.81



# SAN JUAN 32-5

RIO ARRIBA & SAN JUAN COUNTIES  
NEW MEXICO

No. 14-08-001-534

EFFECTIVE 3-30-53



 ELIMINATION I  
 ELIMINATION II



**gulram, inc.**

petroleum engineering and government regulation consultants



UNIT NAME: SAN JUAN 32-5 UNIT AREA  
CONTRACT NUMBER: 14-08-001-534  
APPROVAL DATE: 3-30-53  
EFFECTIVE DATE: 3-30-53  
ACREAGE TOTAL: 25,955.42 (20,371.09 FED.; 960.00 STATE;  
4,624.33 FEE)

TYPE: EXPLORATORY  
UNITIZED FORMATION: ALL  
AUTOMATIC ELIMINATION DATE: 7-9-64: NEW ACREAGE: 7,566.70  
9-1-77: NEW ACREAGE: 5,180.84  
(3,260.84 FED;  
640.00 STATE;  
1,280.00 FEE)

OPERATOR: EL PASO NATURAL GAS COMPANY

PARTICIPATING AREAS

Name: DAKOTA INITIAL  
Well Name: #2-26  
Location: NE/4 26-32N-6W  
Effective Date: 8-22-60  
Legal Description: W/2 sec. 25; E/2 sec. 26, T.32N.,R.6W.  
Acres added: 640.00  
Total Acres: 640.00

Name: DAKOTA 1ST REVISION  
Well Name: #2-25  
Location: NE/4 25-32N-6W  
Effective Date: 11-1-60  
Legal Description: Lots 1,2 sec. 30, T.32N.,R.5W.; E/2 sec.  
25, T.32N.,R.6W.  
Acres added: 407.81  
Total Acres: 1047.81

Name: DAKOTA 2ND REVISION  
Well Name: #1-23,1-24  
Location: 23,24-32N-6W  
Effective Date: 12-1-60  
Legal Description: S/2 sec. 23; S/2 sec. 24; NW/4 sec. 26,  
T.32N.,R.6W.  
Acres added: 800.00  
Total Acres: 1847.81

Name: DAKOTA 3RD REVISION  
Well Name: #3-26  
Location: NW/4 26-32N-6W  
Effective Date: 6-1-61  
Legal Description: SW/4 sec. 26, T.32N.,R.6W.  
Acres added: 160.00  
Total Acres: 2007.81



SAN JUAN 32-5 UNIT CONTINUED

Name: DAKOTA 4TH REVISION

Well Name: #2-23

Location: NE/4 23-32N-6W

Effective Date: 7-1-61

Legal Description: S/2S/2 sec. 14; N/2 sec. 23; NW/4 sec.  
24, T.32N.,R.6W.

Acres added: 640.00

Total Acres: 2647.81

Name: DAKOTA 5TH REVISION

Well Name: #1-27

Location: NE/4 27-32N-6W

Effective Date: 10-1-61

Legal Description: SE/4 sec. 22; ALL sec. 27, T.32N.,R.6W.

Acres added: 800.00

Total Acres: 3447.81

Name: DAKOTA 6TH REVISION

Well Name: #1-22

Location: SE/4SE/4 22-32N-6W

Effective Date: 1-1-62

Legal Description: SW/4,NE/4 sec. 22, T.32N.,R.6W.

Acres added: 320.00

Total Acres: 3767.81

NON-COMMERCIAL WELLS:

#1-20 SW/4 20-32N-5W

#1-31 NE/4 31-32N-5W



gulram, inc.

petroleum engineering and government regulation consultants

UNIT NAME: SAN JUAN 32-5 UNIT AREA  
CONTRACT NUMBER: 14-08-001-534  
APPROVAL DATE: 3-30-53  
EFFECTIVE DATE: 3-30-53  
ACREAGE TOTAL: 25,955.42 (20,371.09 FED.; 960.00 STATE;  
4,624.33 FEE)

TYPE: EXPLORATORY  
UNITIZED FORMATION: ALL  
AUTOMATIC ELIMINATION DATE: 7-9-64: NEW ACREAGE: 7,566.70  
9-1-77: NEW ACREAGE: 5,180.84  
(3,260.84 FED;  
640.00 STATE;  
1,280.00 FEE)

OPERATOR: EL PASO NATURAL GAS COMPANY

PARTICIPATING AREAS

Name: FRUITLAND INITIAL  
Well Name: #2  
Location: SW/4 35-32N-5W  
Effective Date: 11-21-53  
Legal Description: W/2 sec. 35, T.32N.,R.5W.  
Acres added: 320.00  
Total Acres: 320.00

TERMINATED 7-9-64



UNIT NAME: SAN JUAN 32-5 UNIT AREA  
 CONTRACT NUMBER: 14-08-001-534  
 APPROVAL DATE: 3-30-53  
 EFFECTIVE DATE: 3-30-53  
 ACREAGE TOTAL: 25,955.42 (20,371.09 FED.; 960.00 STATE;  
 4,624.33 FEE)

TYPE: EXPLORATORY  
 UNITIZED FORMATION: ALL  
 AUTOMATIC ELIMINATION DATE: 7-9-64: NEW ACREAGE: 7,566.70  
 9-1-77: NEW ACREAGE: 5,180.84  
 (3,260.84 FED;  
 640.00 STATE;  
 1,280.00 FEE)

OPERATOR: EL PASO NATURAL GAS COMPANY

PARTICIPATING AREAS

Name: MESAVERDE INITIAL  
 Well Name: #4-16  
 Location: 16-32N-6W  
 Effective Date: 10-29-55  
 Legal Description: E/2 sec. 16, T.32N.,R.6W.  
 Acres added: 320.00  
 Total Acres: 320.00

Name: MESAVERDE 1ST REVISION  
 Well Name: #1-26  
 Location:  
 Effective Date: 7-1-59  
 Legal Description: W/2 sec. 26, T.32N.,R.6W.  
 Acres added: 320.00  
 Total Acres: 640.00

Name: MESAVERDE 2ND REVISION  
 Well Name: #1-32  
 Location: 32-32N-5W  
 Effective Date: 9-1-59  
 Legal Description: S/2 sec. 32, T.32N.,R.5W.  
 Acres added: 320.00  
 Total Acres: 960.00

Name: MESAVERDE 3RD REVISION  
 Well Name: #1-25  
 Location: 1-32N-6W  
 Effective Date: 6-1-60  
 Legal Description: W/2 sec. 25; E/2 sec. 26, T.32N.,R.6W.  
 Acres added: 640.00  
 Total Acres: 1600.00





SAN JUAN 32-5 UNIT CONTINUED

Name: MESAVERDE 4TH REVISION

Well Name: #1-31

Location: 31-32N-5W

Effective Date: 11-1-60

Legal Description: Lots 1-4 sec. 30; Lots 1-4 sec. 31,  
T.32N.,R.5W.; E/2 sec. 25, T.32N.,R.6W.

Acres added: 665.59

Total Acres: 2265.59

Name: MESAVERDE 5TH REVISION

Well Name: #2-23

Location: 23-32N-6W

Effective Date: 8-1-61

Legal Description: E/2 sec. 23, T.32N.,R.6W.

Acres added: 320.00

Total Acres: 2585.59

Name: MESAVERDE 6TH REVISION

Well Name: #2-24

Location: 24-32N-6W

Effective Date: 2-1-62

Legal Description: ALL sec. 24, T.32N.,R.6W.

Acres added: 640.00

Total Acres: 3225.59

Name: MESAVERDE 7TH REVISION

Well Name: #2-27

Location: 27-32N-6W

Effective Date: 9-1-62

Legal Description: E/2 sec. 27, T.32N.,R.6W.

Acres added: 320.00

Total Acres: 3545.59

Name: MESAVERDE 8TH REVISION

Well Name: #1-19

Location: 19-32N-5W

Effective Date: 12-1-62

Legal Description: Lots 1-4 sec. 18; Lots 1-4 sec. 19,  
T.32N.,R.5W.

Acres added: 355.25

Total Acres: 3900.84

NON-COMMERCIAL WELLS:

#1-20 SW/4 20-32N-5W