

DATE 2/22/01	SUBMITTER 3/14/01	ENGINEER MS	LOGGED IN KW	TYPE NSL	APP NO. 105430303
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ABOVE THIS LINE FOR DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



**ADMINISTRATIVE APPLICATION COVERSHEET**

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

**Application Acronyms:**

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]  
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]  
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]  
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]  
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]  
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

- [A] Location - Spacing Unit - Simultaneous Dedication  
☒ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement  
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply

- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners  
 [B] ☐ Offset Operators, Leaseholders or Surface Owner  
 [C] ☐ Application is One Which Requires Published Legal Notice  
 [D] ☒ Notification and/or Concurrent Approval by BLM or SLO  
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office  
 [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,  
 [F] ☐ Waivers are Attached

[3] **INFORMATION / DATA SUBMITTED IS COMPLETE** - Certification

I hereby certify that I, or personnel under my supervision, have reviewed the applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common.

*I understand that any omission of data (including API numbers, pool codes, etc.), pertinent information and any required notification is cause to have the application package returned with no action taken.*

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Peggy Cole

Print or Type Name

Signature

Regulatory Supervisor

Title

2-21-01

Date

pbradfield@br-inc.com

e-mail Address

# BURLINGTON RESOURCES

SAN JUAN DIVISION

Sent Federal Express

Mr. Michael Stogner  
New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87504

Re: San Juan 27-4 Unit #54M  
1940'FSL, 100'FEL Section 32, T-27-N, R-4-W, Rio Arriba County  
30-039-26455

Dear Mr. Stogner:

Burlington Resources is applying for administrative approval of an unorthodox gas well location for the Basin Dakota. This location is at the request of the Carson National Forest due to extremely rough terrain. This well is planned as a Mesaverde and Dakota commingled completion; and will be the infill well for the Dakota, and the third Mesaverde well in this proration unit. Order DHC-2683 has been received to commingle the Mesaverde and Dakota production.

Production from the Mesaverde is to be included in a 320 acre gas spacing and proration unit for the east half (E/2) of Section 32 and is to be dedicated to the San Juan 27-4 Unit #54 (API # 30-039-20141) located at 810'FNL, 910'FEL of Section 32 and the San Juan 27-4 Unit #108 (API # 30-039-22375) located at 1810'FSL, 1580'FEL of Section 32. Production from the Dakota is to be included in a 320 acre gas spacing and proration unit for the east half (E/2) of Section 32 and is to be dedicated to the San Juan 27-4 Unit #54 (API # 30-039-20141) located at 810'FNL, 910'FEL of Section 32.

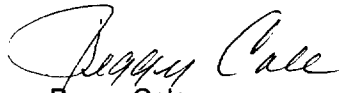
The following attachments are for your review:

- Application for Permit to Drill
- Completed C-102 at referenced location.
- Offset operators/owners plat
- Topographic map
- Geologic map and explanation

Burlington Resources believes there are no correlative rights issues because the encroachment is toward federal unit property. Both the Mesaverde and Dakota are in the participating areas of the San Juan 27-4 Unit.

Please let me know if you have any questions about this application.

Sincerely,



Peggy Cole  
Regulatory Supervisor

xc: NMOCD - Aztec District Office  
Bureau of Land Management

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL ✓	5. Lease Number SF-080670 Unit Reporting Number DK-8910010540 MV-891001054A
1b. Type of Well GAS ✓	6. If Indian, All. or Tribe
2. Operator <b>BURLINGTON RESOURCES</b> Oil & Gas Company	7. Unit Agreement Name San Juan 27-4 Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name San Juan 27-4 Unit 9. Well Number 54M
4. Location of Well 1940' FSL, 100' FEL Latitude 36° 31.7, Longitude 107° 15.9	10. Field, Pool, Wildcat Blanco MV/Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 32, T-27-N, R-4-W API # 30-039-26455
14. Distance in Miles from Nearest Town 18 miles from Gobernador	12. County Rio Arriba 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 100'	17. Acres Assigned to Well 320 E/2 ✓
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 700'	20. Rotary or Cable Tools Rotary
19. Proposed Depth 8182' - This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4.	22. Approx. Date Work will Start 2.23.00
21. Elevations (DF, FT, GR, Etc.) 6960' GR ✓	DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>Jimmy Case</u> Regulatory/Compliance Administrator	Date

PERMIT NO. \_\_\_\_\_ APPROVAL DATE MAY 24 2000  
APPROVED BY /s/ Jim Lovato TITLE \_\_\_\_\_ DATE \_\_\_\_\_

Archaeological Report to be submitted

Threatened and Endangered Species Report to be submitted

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

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 presentations as to any matter within its jurisdiction.

NMOC

NSL for Basin Dakota

Act II  
Drawer DD, Artesia, NM 88211-0719

District III  
1000 Rio Brazos Rd., Aztec, NM 87410

District IV  
PO Box 2088, Santa Fe, NM 87504-2088

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

AMENDED REPORT

CIO FIELD OFFICE, NM

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number <b>30-039-</b>		Pool Code <b>72319/71599</b>	Pool Name <b>Blanco Mesaverde/Basin Dakota</b>
Property Code <b>7452</b>	Property Name <b>SAN JUAN 27-4 UNIT</b>		Well Number <b>54M</b>
GRID No. <b>14538</b>	Operator Name <b>BURLINGTON RESOURCES OIL &amp; GAS COMPANY</b>		Elevation <b>6960'</b>

10 Surface Location

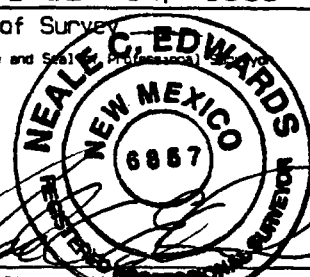
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>I</b>	<b>32</b>	<b>27N</b>	<b>4W</b>		<b>1940</b>	<b>SOUTH</b>	<b>100</b>	<b>EAST</b>	<b>RIO ARriba</b>

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres <b>MV-E/320</b> <b>DK-E/320</b>	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<div style="display: flex; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">5280.00'</div> <div style="text-align: center;"> <p>5266.80'</p> <p>32</p> <p>5280.00'</p> </div> <div style="writing-mode: vertical-rl;">5280.00'</div> </div>	NMSF-080670		<p>100'</p> <p>1940'</p>	<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Peggy Cole</i> Signature</p> <p><b>Peggy Cole</b> Printed Name</p> <p><b>Regulatory Administrator</b> Title</p> <p><b>2-23-00</b> Date</p>
				<p>18 SURVEYOR CERTIFICATION</p> <p>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 belief.</p>
				<p>DECEMBER 14, 1999 Date of Survey</p>
				<p>Signature and Seal of Surveyor</p> <div style="text-align: center;">  </div> <p>Certificate Number <b>6857</b></p>

BURLINGTON RESOURCES OIL AND GAS COMPANY

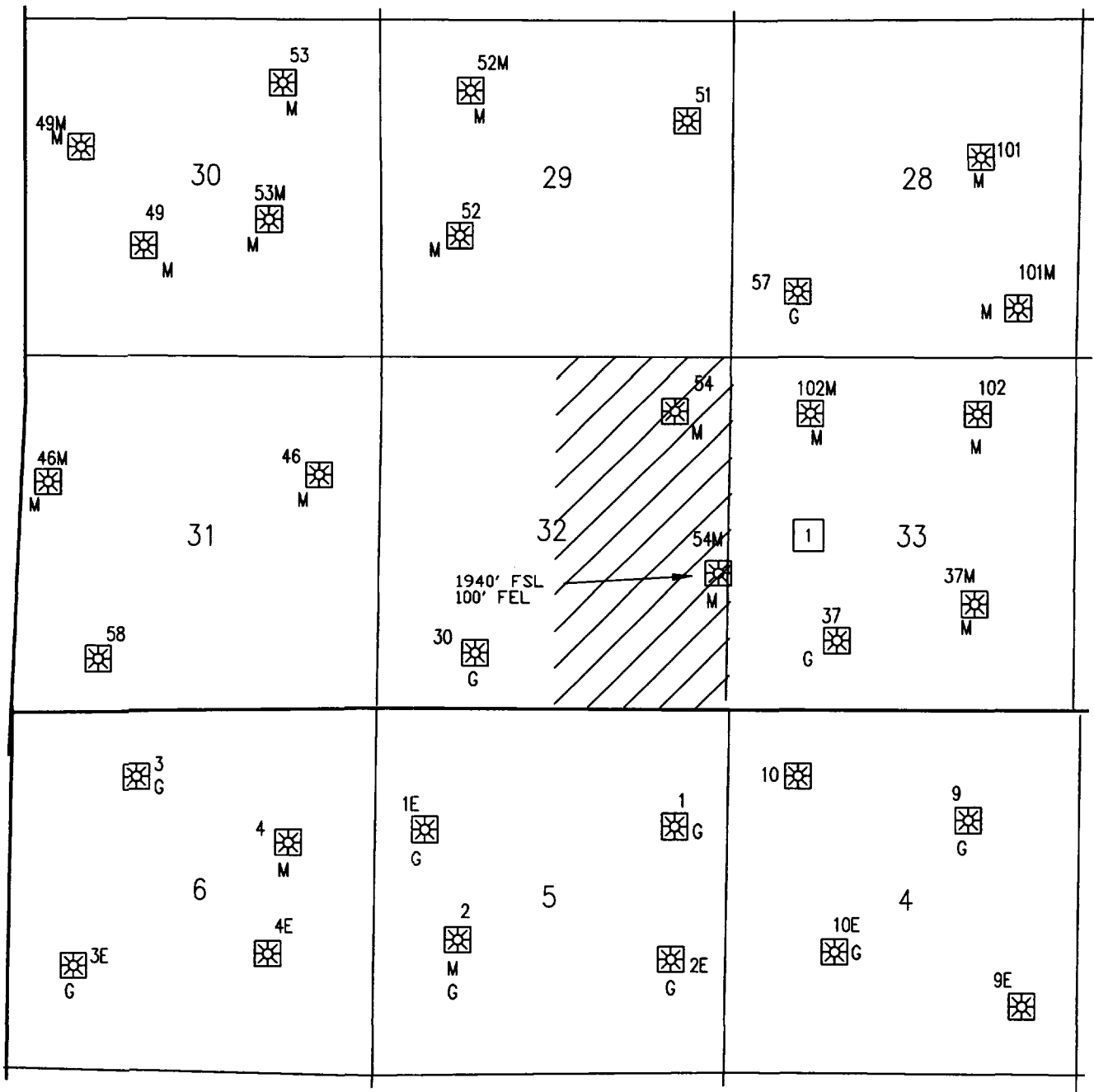
San Juan 27-4 Unit #54M

Section 32, T-27-N, R-4-W

OFFSET OPERATOR/OWNER PLAT

Nonstandard Location

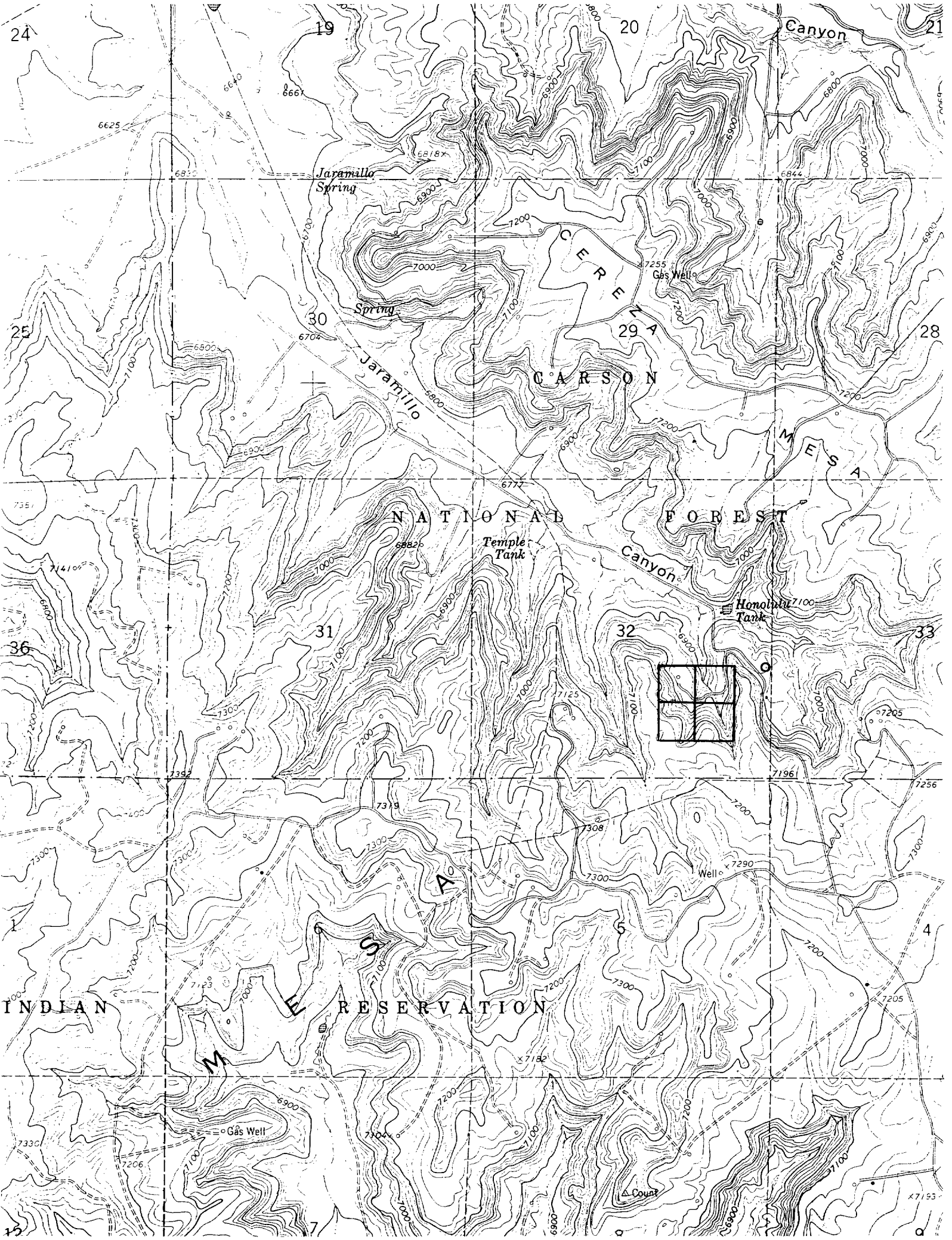
Dakota Formation Well



1 Burlington Resources – operator of the San Juan 27-4 Unit



Proposed Well



Proposed San Juan 27-4 Unit Well Number 54M  
1940' FSL & 100' FEL  
Section 32, T27N, R4W  
Rio Arriba County, New Mexico  
Blanco Mesaverde/Basin Dakota Pool  
Estimated TD 8182'

The Mesaverde spacing unit for the San Juan 27-4 Unit 54M is the E/2 of Section 32-T27N-R4W. The proposed test is staked at a standard Mesaverde gas well location within the spacing unit, and will be the third Mesaverde well completed in the 320-acre spacing unit. The location of the proposed test was selected to optimize recovery from the Mesaverde Group. The primary control on productivity in the Mesaverde is the density of natural fractures. Fracture orientation ranges from due north to north 30 degrees east. Gas drainage areas are elliptical in shape with the long axis parallel to the direction of fracture orientation. A drainage ellipse map of the project vicinity indicates that undeveloped gas reserves remain to be exploited by the 54M in the E/2SE/4 of Section 32-T27N-R4W. The drainage ellipse map is based upon data derived from a larger study of the entire Blanco Mesaverde Pool (estimated ultimate recovery calculated for all wells in the Blanco Mesaverde Pool, original gas in place values calculated for entire Blanco Mesaverde Pool, etc.).

The Dakota spacing unit for the San Juan 27-4 Unit 54M is the E/2 of Section 32-T27N-R4W. The proposed test located in the SE/4 of Section 32 will be the second Dakota well completed in the 320-acre spacing unit. Exact placement of the well within the SE/4 of the section was not viewed as critical to success of the new drill project in the Dakota. The proposed test is staked at a non-standard Dakota gas well location within the spacing unit. Every effort was made to locate the San Juan 27-4 Unit 54M at a standard Dakota gas well location in the E/2SE/4 of Section 32 that would also not create significant Mesaverde drainage area overlap with the San Juan 27-4 Unit 108, located in the NW/4SE/4 of Section 32, T27N, R4W. Unfortunately, it was not possible to find such a surface location due to topographic restrictions. A test located at the proposed footages is expected to be geologically comparable in the Dakota with a test located at any standard Dakota location in the E/2SE/4 of Section 32.

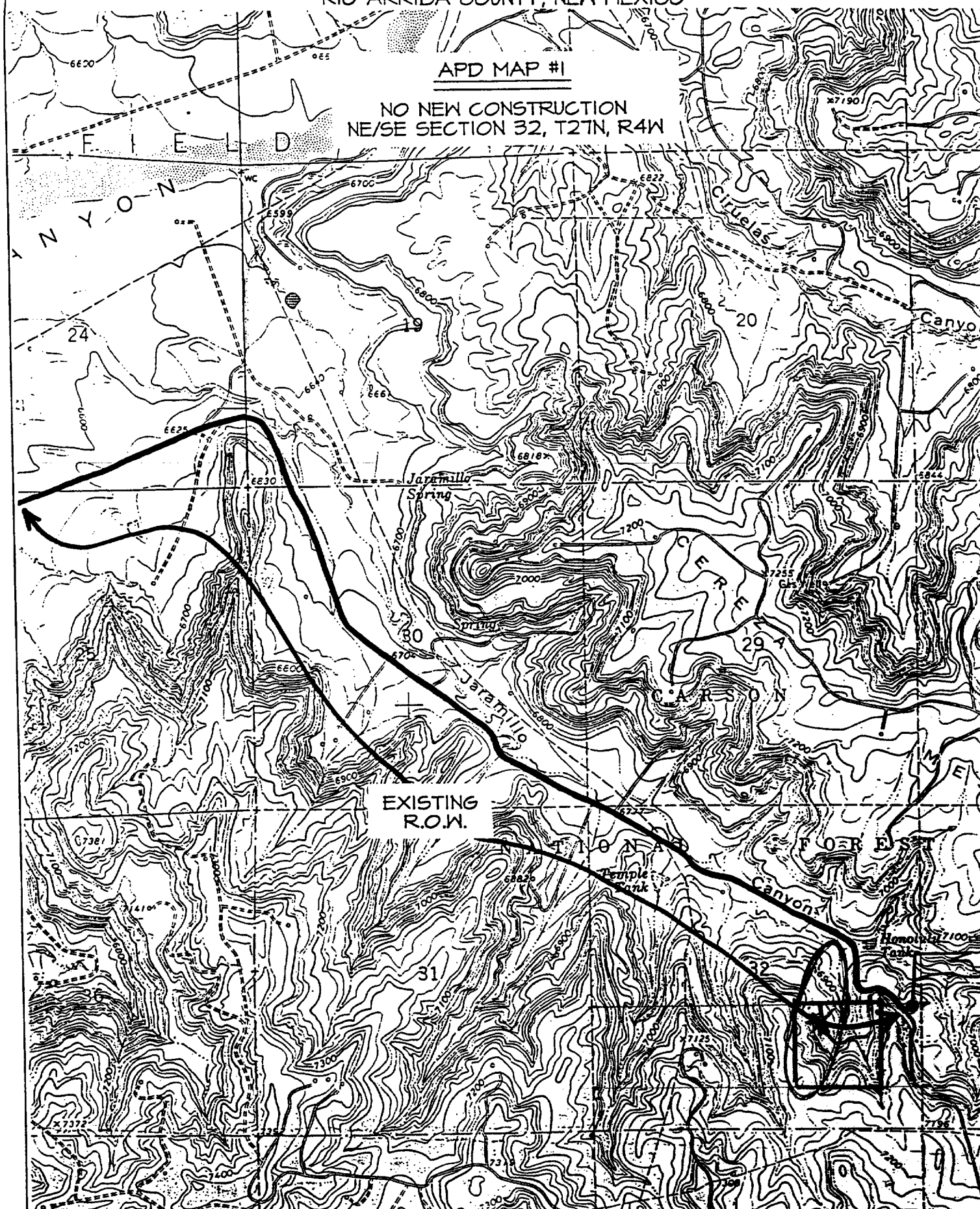
BURLINGTON RESOURCES OIL & GAS COMPANY SAN JUAN 27-4 UNIT #54M

1940' FSL & 100' FEL, SECTION 32, T27N, R4W, N.M.P.M.

RIO ARRIBA COUNTY, NEW MEXICO

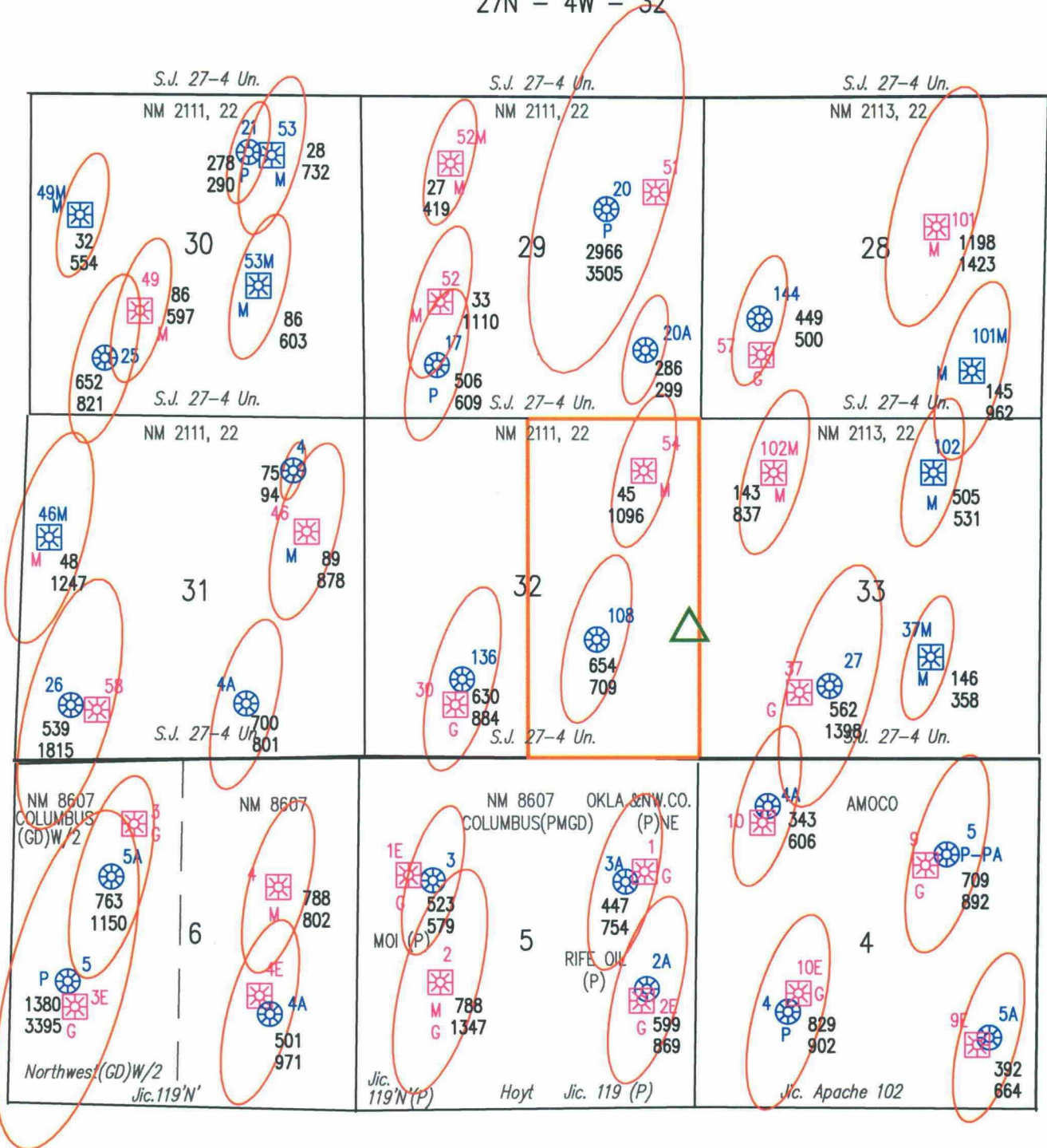
APD MAP #1

NO NEW CONSTRUCTION  
NE/SE SECTION 32, T27N, R4W





San Juan 27-4 Unit #54M  
Blanco Mesaverde / Basin Dakota  
27N - 4W - 32





# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**GARY E. JOHNSON**

Governor

**Jennifer A. Salisbury**  
Cabinet Secretary

March 19, 2001

**Lori Wrotenbery**

Director

**Oil Conservation Division**

**Burlington Resources Oil and Gas Company**

**Attention: Peggy Cole**

**P. O. Box 4289**

**Farmington, New Mexico 87499-4289**

**Re:** Administrative application of Burlington Resources Oil and Gas Company for an exception to the well location requirements provided within the "*Special Rules and Regulations for the Basin-Dakota Pool*," as promulgated by Division Order No. R-10987-B, issued in Case No. 12290 and dated June 30, 2000 for a non-standard infill gas well location within an existing standard 320-acre stand-up gas spacing and proration unit for the Basin-Dakota Pool comprising the E/2 of Section 32 Township 27 North, Range 4 West, NMPM, Rio Arriba County, New Mexico.

Dear Ms. Cole:

I have reviewed the subject application that was submitted to the Division on February 22, 2001 for the proposed San Juan "27-4" Unit Well No. 54-M (30-039-26455), to be drilled at an unorthodox infill gas well location 1940 feet from the South line and 100 feet from the East line (Unit I) of Section 32. I found that within the SE/4 of Section 32 Burlington currently operates the San Juan "27-4" Unit Well No. 116 (30-039-21007), located 1680 feet from the South line and 840 feet from the East line (Unit I) of Section 32. The No. 116 well is a Tapacito-Pictured Cliffs gas producer drilled in 1976 by El Paso Natural Gas Company. The location of this existing wellsite is well within the acceptable setback tolerance range for a standard gas well location in the Basin-Dakota Pool. Your application failed to mention its existence, much less the possibility of utilizing this well-pad as a possible location to drill your No. 54-M. Was this possibility ever discussed with the Forest Service? Wouldn't the utilization of this existing site serve to avoid further surface disturbance within the SE/4 of Section 32 while simultaneously helping to assure the orderly development of both the Blanco-Mesaverde and Basin-Dakota reservoirs? How does the Forest Service view utilizing such existing wellsites? Does Burlington utilize such sites? Should future applications address such matters when applicable?

Any other thoughts along these lines would be appreciated. Thank you.

Sincerely

Michael E. Stogner  
Chief Hearing Officer/Engineer

cc: New Mexico Oil Conservation Division – Aztec  
U. S. Bureau of Land Management - Farmington  
U. S. Forest Service - Bloomfield  
W. Thomas Kellahin, Legal Counsel for Burlington - Santa Fe



State of New Mexico  
OIL CONSERVATION COMMISSION

3-19-01

From

MICHAEL E. STONER  
PETROLEUM ENGINEER

Memo

to Charles Perrin

Attached is a copy of a Buckingham  
NSL affiliation and my initial  
response. I really don't expect they  
will take the hint and move the  
location; therefore, your comments  
about the requested location is  
appreciated. Thanks

P.O. BOX 2088  
LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501  
505-827-5811



State of New Mexico  
OIL CONSERVATION COMMISSION

3-19-01

From

MICHAEL E. STOSNER  
PETROLEUM AND MINES

*MS*

Memo

*to Steve Hayden*

*Attached is a copy of a Burlington  
NSL application and my initial  
response. I really don't expect they  
will take the land and move the  
location, therefore your comments  
about the requested location is  
appreciated. Thanks.*

-----  
**From:** Hayden, Steven  
**Sent:** Thursday, March 22, 2001 3:37 PM  
**To:** Stogner, Michael  
**Subject:** SJ 27-4 #54M

March 22, 2001

Mike,

I think your comments on the other available locations are valid.

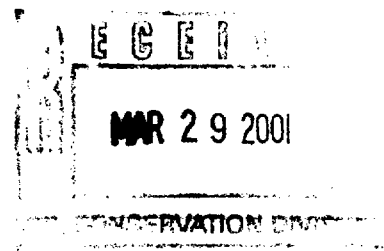
I also think the proposed placement looks good from a geological point of view. They are dead center on the elliptical drainage pattern for the Mesaverde and I presume they own Section 33 minerals as well. The spacing doesn't look too bad with respect to the Dakota well in the SW of 33.

I guess as long as there are no conflicts over correlative rights I don't object.

Steve

# BURLINGTON RESOURCES

SAN JUAN DIVISION



Sent Federal Express

March 28, 2001

Mr. Michael Stogner  
New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87504

Re: San Juan 27-4 Unit #54M  
1940'FSL, 100'FEL Section 32, T-27-N, R-4-W, Rio Arriba County  
30-039-26455

Dear Mr. Stogner:

Thank you for your letter of March 19, 2001 with questions regarding our application for administrative approval of an unorthodox gas well location for the Basin Dakota in the referenced well.

My apologies for not including our information on using the San Juan 27-4 Unit #116 Pictured Cliffs well pad located at 1680'FSL, 840'FEL of Section 32. Both Burlington Resources and the Forest Service prefer to utilize existing wellsites wherever possible.

We did evaluate utilizing the #116 wellpad for the San Juan 27-4 Unit #54M well. Our evaluation indicates that the #54M well should recover approximately 1 to 1.3 BCF of gas. Our estimated recoverable reserves range from a high-side of 1.3 BCF (see attached Exhibit #1) to a low-side of 0.709 BCF (see attached Exhibit #2). We have super-imposed the predicted drainage ellipse of our proposed #54M well over the #116 location on both exhibits. In the instance that we recover our high-side reserves, we would experience a significant overlap in the drainage area of the San Juan 27-4 Unit #108 Mesaverde well. Therefore, we would prefer to use the non-standard location as opposed to the San Juan 27-4 Unit #116 location for our San Juan 27-4 Unit #54M well due to the potential overlap of drainage areas.

Please let me know if you have any further questions or require further information on this application.

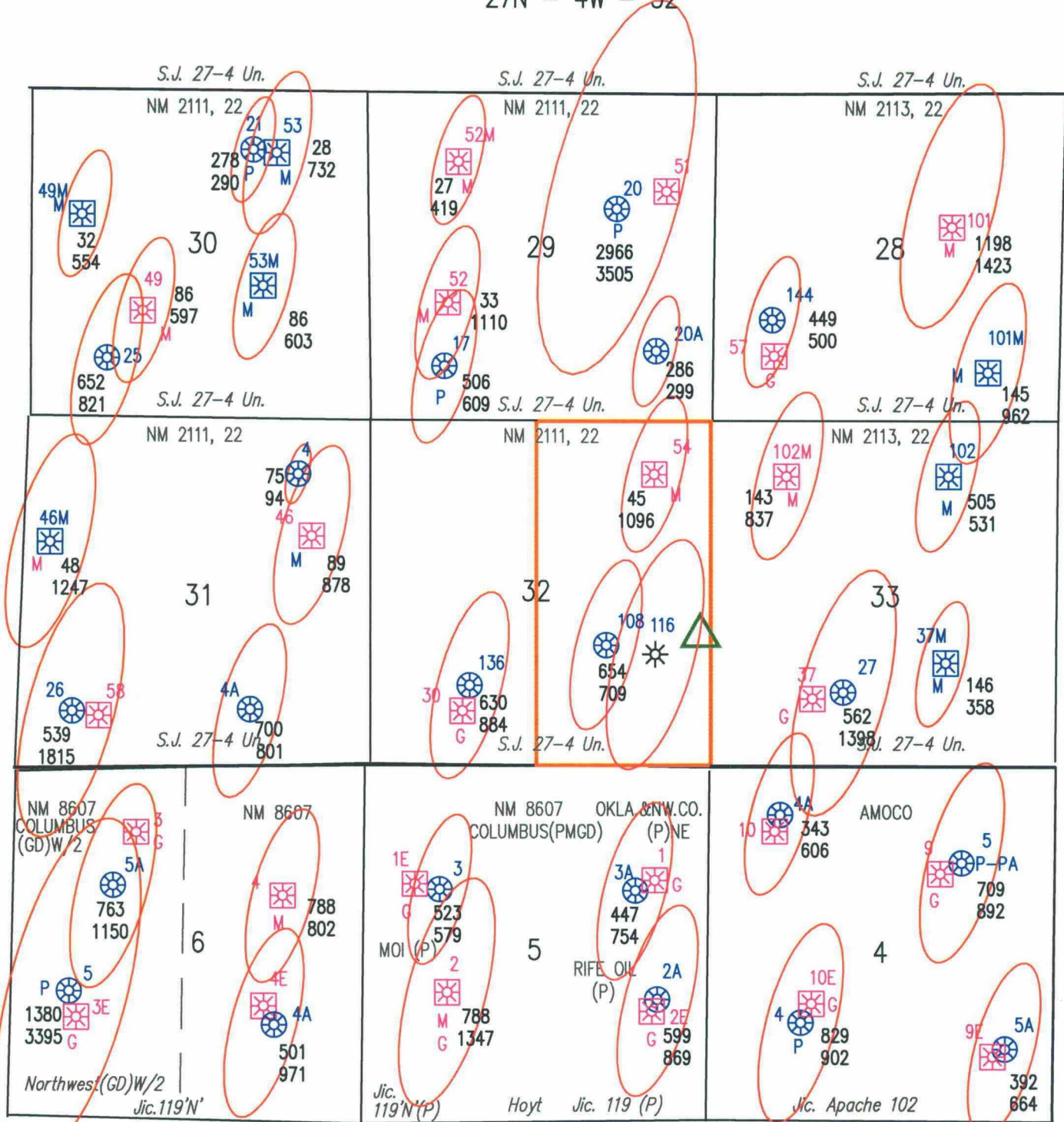
Sincerely,

Peggy Cole  
Regulatory Supervisor

Att.

Xc: Aztec District Office – OCD  
Bureau of Land Management – Farmington  
U. S. Forest Service – Bloomfield

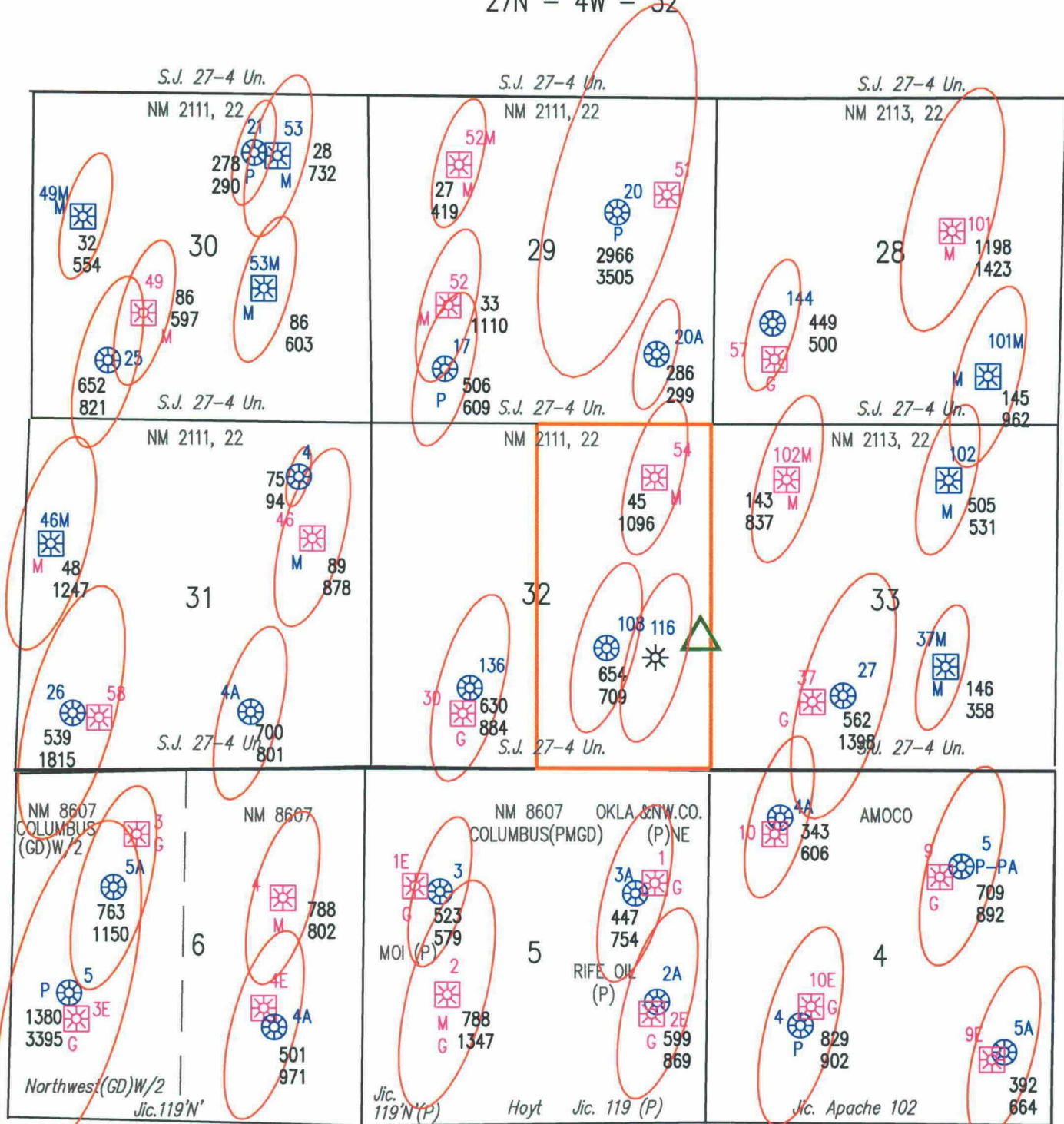
San Juan 27-4 Unit #54M  
Blanco Mesaverde / Basin Dakota  
27N - 4W - 32



Proposed Location SJ 27-4 #54M  
 Spacing Unit SJ 27-4 #54M  
 Existing Pictured Cliffs Well  
 Drainage Ellipse (based on MV EUR)  
 Mesaverde CUM Mesaverde EUR



San Juan 27-4 Unit #54M  
Blanco Mesaverde / Basin Dakota  
27N - 4W - 32



Proposed Location SJ 27-4 #54M  
 Spacing Unit SJ 27-4 #54M  
 Existing Pictured Cliffs Well  
 Drainage Ellipse (based on MV EUR)  
 Mesaverde CUM Mesaverde EUR



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number SF-080670 Unit Reporting Number DK-8910010540 MV-891001054A
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator <b>BURLINGTON RESOURCES</b> Oil & Gas Company	7. Unit Agreement Name San Juan 27-4 Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name San Juan 27-4 Unit 9. Well Number 54M
4. Location of Well 1940' FSL, 100' FEL Latitude 36° 31.7, Longitude 107° 15.9	10. Field, Pool, Wildcat Blanco MV/Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 32, T-27-N, R-4-W API # 30-039-26455
14. Distance in Miles from Nearest Town 18 miles from Gobernador	12. County Rio Arriba 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 100'	17. Acres Assigned to Well 320 E/2
16. Acres in Lease	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 700'	
19. Proposed Depth 8182'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6960' GR	22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached	DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"
24. Authorized by: <u>James Pace</u> Regulatory/Compliance Administrator	<u>2-23-00</u> Date

PERMIT NO. \_\_\_\_\_ APPROVAL DATE MAY 24 2000  
APPROVED BY /s/ Jim Lovato TITLE \_\_\_\_\_ DATE \_\_\_\_\_

Archaeological Report to be submitted

Threatened and Endangered Species Report to be submitted

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

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 presentations as to any matter within its jurisdiction.

NAHCCD

NSL for Basin Dakota

District I  
PO Box 1980, Hobbs, NM 88241-1980

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102  
Revised February 21, 1994

District II  
PO Drawer 00, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

District III  
1000 Rio Brazos Rd., Aztec, NM 87410

District IV  
PO Box 2088, Santa Fe, NM 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-039- 26455	<sup>2</sup> Pool Code 72319/71599	<sup>3</sup> Pool Name Blanco Mesaverde/Basin Dakota
<sup>4</sup> Property Code 7452	<sup>5</sup> Property Name SAN JUAN 27-4 UNIT	<sup>6</sup> Well Number 54M
<sup>7</sup> OGRID No. 14538	<sup>8</sup> Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY	<sup>9</sup> Elevation 6960'

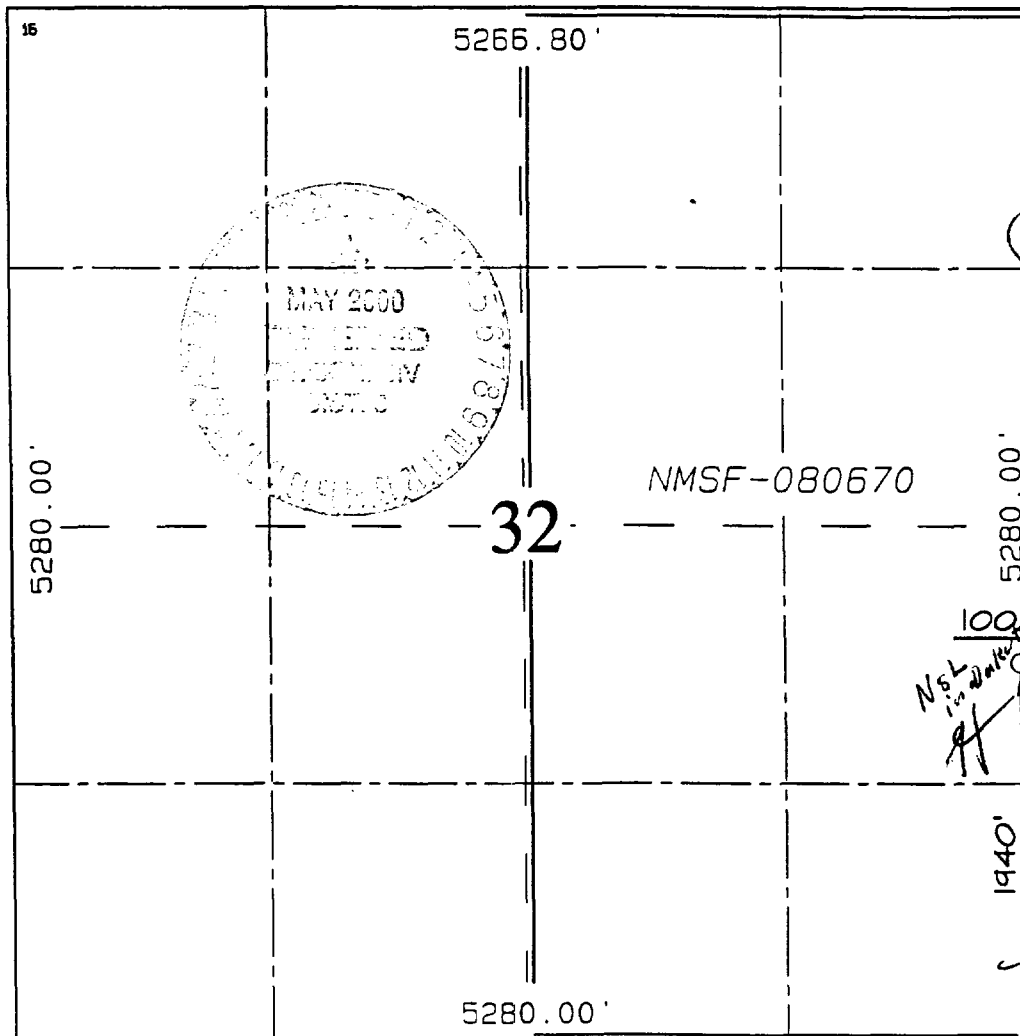
<sup>10</sup> Surface Location

UL or lot no. I	Section 32	Township 27N	Range 4W	Lot Idn	Feet from the 1940	North/South line SOUTH	Feet from the 100	East/West line EAST	County RIO ARriba
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<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<sup>12</sup> Dedicated Acres MV-E/320 DK-E/320	<sup>13</sup> Joint or Infill I	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



<sup>17</sup> OPERATOR CERTIFICATION

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

*Peggy Cole*  
Signature  
Peggy Cole  
Printed Name  
Regulatory Administrator  
Title  
2-23-00  
Date

<sup>18</sup> 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 belief.

DECEMBER 14, 1999  
Date of Survey  
Signature and Seal of Professional Surveyor  
NEALE C. EDWARDS  
NEW MEXICO  
6857  
Certificate Number 6857

## OPERATIONS PLAN

**Well Name:** San Juan 27-4 Unit #54M  
**Location:** 1940' FSL, 100' FEL, Sec 32, T-27-N, R-4-W  
Rio Arriba County, NM  
Latitude 36° 31.7, Longitude 107° 15.9  
**Formation:** Blanco Mesa Verde/Basin Dakota  
**Elevation:** 6960' GL

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	3222'	
Ojo Alamo	3222'	3432'	aquifer
Kirtland	3432'	3472'	gas
Fruitland	3472'	3757'	gas
Pictured Cliffs	3757'	3827'	gas
Lewis	3827'	4250'	gas
<b>Intermediate TD</b>	<b>3927'</b>		
Mesa Verde	4250'	4719'	gas
Chacra	4719'	5449'	gas
Massive Cliff House	5449'	5578'	gas
Menefee	5578'	5924'	gas
Massive Point Lookout	5924'	6429'	gas
Mancos	6429'	7074'	gas
Gallup	7074'	7882'	gas
Greenhorn	7882'	7942'	gas
Graneros	7942'	7967'	gas
Dakota	7967'		gas
<b>TD</b>	<b>8182'</b>		

### Logging Program:

Cased hole - CBL-CCL-GR - TD to surface  
Cores - none

### Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0- 200'	Spud	8.4-9.0	40-50	no control
200- 3927'	LSND	8.4-9.0	30-60	no control
3927- 8182'	Air/N2	n/a	n/a	n/a

Pit levels will be visually monitored to detect gain or loss of fluid control.

### Casing Program (as listed, the equivalent, or better):

<u>Hole Size</u>	<u>Depth Interval</u>	<u>Csg. Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0' - 200'	9 5/8"	32.3#	WC-50
8 3/4"	0' - 3927'	7"	20.0#	J-55
6 1/4"	3827' - 8182'	4 1/2"	10.5#	K-55

### Tubing Program:

0' -8182'      2 3/8"      4.7#      J-55

### BOP Specifications, Wellhead and Tests:

#### Surface to Intermediate TD -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1).  
After nipple-up prior to drilling out surface casing, rams and casing will be tested to 600 psi for 30 minutes.

#### Intermediate TD to Total Depth -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1).  
After nipple-up prior to drilling out intermediate casing, rams and casing will be tested to 1500 psi for 30 minutes.

**Surface to Total Depth -**

2" nominal, 2000 psi minimum choke manifold (Reference Figure #3).

**Completion Operations -**

7 1/16" 2000 psi double gate BOP stack (Reference Figure #2). After nipple-up prior to completion, pipe rams, casing and liner top will be tested to 2000 psi for 15 minutes.

**Wellhead -**

9 5/8" x 7" x 2 3/8" x 3000 psi tree assembly.

**General -**

- Pipe rams will be actuated once each day and blind rams will be actuated once each trip to test proper functioning.
- An upper kelly cock valve with handle available and drill string valves to fit each drill string will be available on the rig floors at all times.
- BOP pit level drill will be conducted weekly for each drilling crew.
- All BOP tests and drills will be recorded in daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

**Cementing:**

9 5/8" surface casing - cement with 159 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (188 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs. Test casing to 600 psi for 30 minutes.

Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

**7" intermediate casing -**

Lead w/353 sx Class "B" w/3% sodium metasilicate, 7# gilsonite/sx and 1/2# flocele/sx. Tail w/90 sx 50/50 Class "B" Poz w/2% calcium chloride, 2% gel (1181 cu.ft. of slurry, 100% excess to circulate to surface.) WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL will be run during completion operations to determine TOC. Test casing to 1500 psi for 30 minutes.

7" intermediate casing alternative two stage: Stage collar at 3372'. First stage: cement with w/124 sx Class "B" 50/50 poz w/2% gel, 2% calcium chloride, 0.5 pps Cellophane. Second stage: 346 sx Class "B" with 3% sodium metasilicate, 1/2 pps Cellophane, 10 pps Gilsonite (1181 cu.ft., 100% excess to circulate to surface).

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. Bowspring centralizers spaced every other joint off bottom, to the base of the Ojo Alamo at 3432'. Two turbolating centralizers at the base of the Ojo Alamo at 3432'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

**4 1/2" Production Liner -**

Cement to cover minimum of 100' of 4 1/2" x 7" overlap. Lead with 493 sx 50/50 Class "H" Poz with 2% gel, 0.25# flocele/sx, 5# gilsonite/sx, 0.2% retardant and 0.4% fluid loss additive (626 cu.ft.), 40% excess to cement 4 1/2" x 7" overlap). WOC a minimum of 18 hrs prior to completing.

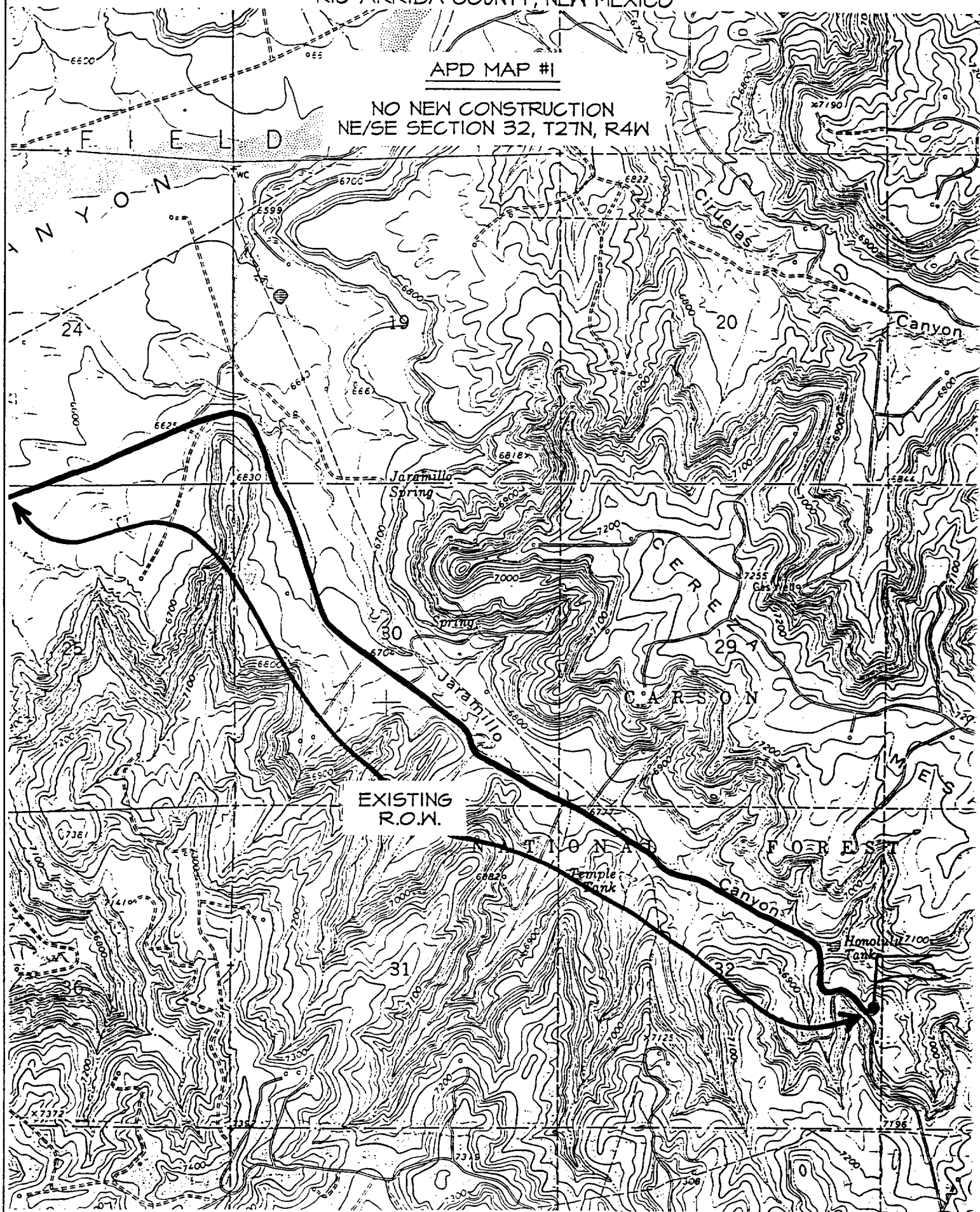
Cement float shoe on bottom with float collar spaced on top of shoe joint.

BURLINGTON RESOURCES OIL & GAS COMPANY SAN JUAN 27-4 UNIT #54M

1940' FSL & 100' FEL, SECTION 32, T27N, R4W, N.M.P.M.  
RIO ARriba COUNTY, NEW MEXICO

APD MAP #1

NO NEW CONSTRUCTION  
NE/SE SECTION 32, T27N, R4W



District I  
PO Box 1980, Hobbs, NM 88241-1980

District II  
P.O. Drawer DD, Artesia, NM 88211-0719

District III  
1000 Rio Brazos Rd., Aztec, NM 87410

District IV  
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals, & Natural Resources Department

Form C-104  
Revised February 21, 1994  
Instructions on back  
Submit to Appropriate District Office  
5 Copies

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

☐ AMMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

<sup>1</sup> Operator Name and Address Burlington Resources Oil & Gas PO Box 4289 Farmington, NM 87499		<sup>2</sup> OGRID Number 14538
		<sup>3</sup> Reason for Filing Code CO - 7/11/96
<sup>4</sup> API Number 30-039-21007	<sup>5</sup> Pool Name TAPACITO P.C. (PRO GAS)	<sup>6</sup> Pool Code 85920
<sup>7</sup> Property Code 007452	<sup>8</sup> Property Name SAN JUAN 27-4 UNIT	<sup>9</sup> Well Number #116

II. <sup>10</sup> Surface Location

UI or lot no. I	Section 32	Township 027N	Range 004W	Lot.Idn	Feet from the 1680	North/South Line S	Feet from the 840	East/West Line E	County RIO ARIBA
--------------------	---------------	------------------	---------------	---------	-----------------------	-----------------------	----------------------	---------------------	---------------------

<sup>11</sup> Bottom Hole Location

UI or lot no.	Section	Township	Range	Lot.Idn	Feet from the	North/South Line	Feet from the	East/West Line	County
<sup>12</sup> Lse Code	<sup>13</sup> Producing Method Code	<sup>14</sup> Gas Connection Date	<sup>15</sup> C-129 Permit Number	<sup>16</sup> C-129 Effective Date	<sup>17</sup> C-129 Expiration Date				

III. Oil and Gas Transporters

<sup>18</sup> Transporter OGRID 25244	<sup>19</sup> Transporter Name and Address WILLIAMS FIELD SERVICES CO P.O. BOX 56900 SALT LAKE CITY, UT 84158-0900	<sup>20</sup> POD	<sup>21</sup> O/G G	<sup>22</sup> POD ULSTR Location and Description I-32-T027N-R004W

IV. Produced Water

<sup>23</sup> POD	<sup>24</sup> POD ULSTR Location and Description
-------------------	--

V. Well Completion Data

<sup>25</sup> Spud Date	<sup>26</sup> Ready Date	<sup>27</sup> TD	<sup>28</sup> PBSD	<sup>29</sup> Perforations
<sup>30</sup> Hole Size	<sup>31</sup> Casing & Tubing Size	<sup>32</sup> Depth Set	<sup>33</sup> Sacks Cement	

VI. Well Test Data

<sup>34</sup> Date New Oil	<sup>35</sup> Gas Delivery Date	<sup>36</sup> Test Date	<sup>37</sup> Test Length	<sup>38</sup> Tbg. Pressure	<sup>39</sup> Csg. Pressure
<sup>40</sup> Choke Size	<sup>41</sup> Oil	<sup>42</sup> Water	<sup>43</sup> Gas	<sup>44</sup> AOF	<sup>45</sup> Test Method

<sup>46</sup> I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Dolores Diaz</i>		OIL CONSERVATION DIVISION	
Printed Name: Dolores Diaz		Approved by: Frank T. Chavez	
Title: Production Associate		Title: District Supervisor	
Date: 7/11/96		Approved Date: July 11, 1996	
Phone: (505) 326-9700			
<sup>47</sup> If this is a change of operator fill in the OGRID number and name of the previous operator 14538 Meridian Oil Production			
Previous Operator Signature Signature: <i>Dolores Diaz</i>		Printed Name Dolores Diaz	Title Production Associate
		Date 7/11/96	

District I  
PO Box 1980, Hobbs, NM 88241-1980

District II  
P O Drawer DD, Artesia, NM 88211-0719

District III  
1000 Rio Brazos Rd., Aztec, NM 87410

District IV  
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals, & Natural Resources Department

OIL CONSERVATION DIVISION  
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PO Box 2088

Santa Fe, NM 87504-2088

Form C-104  
Revised February 21, 1994  
Instructions on back  
Submit to Appropriate District Office  
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

Operator Name and Address  Meridian Oil, Inc. PO Box 4289 Farmington, NM 87499  DHC-1009		OGRID Number  14568
		Reason for Filing Code  CG
API Number 30-0-2100700	Pool Name Tapacito Pictured Cliffs	Pool Code 85920
Property Code	Property Name SAN JUAN 27-4 UNIT	Well Number #116

II. <sup>10</sup> Surface Location

UI or lot no. I	Section 32	Township 027N	Range 004W	Lot.Idn	Feet from the 1680'	North/South Line S	Feet from the 0840'	East/West Line E	County Rio Arriba
--------------------	---------------	------------------	---------------	---------	------------------------	-----------------------	------------------------	---------------------	----------------------

<sup>11</sup> Bottom Hole Location

UI or lot no.	Section	Township	Range	Lot.Idn	Feet from the	North/South Line	Feet from the	East/West Line	County
<sup>12</sup> Lse Code	<sup>13</sup> Producing Method Code	<sup>14</sup> Gas Connection Date	<sup>15</sup> C-129 Permit Number	<sup>16</sup> C-129 Effective Date	<sup>17</sup> C-129 Expiration Date				

III. Oil and Gas Transporters

<sup>18</sup> Transporter OGRID	<sup>19</sup> Transporter Name and Address	<sup>20</sup> POD	<sup>21</sup> O/G	<sup>22</sup> POD ULSTR Location and Description
25244	Williams Field Svcs. Box 58900 SLC, UT 84158		G	I-32-T027N-R004W

IV. Produced Water

<sup>23</sup> POD	<sup>24</sup> POD ULSTR Location and Description
-------------------	--

V. Well Completion Data

<sup>25</sup> Spud Date	<sup>26</sup> Ready Date	<sup>27</sup> TD	<sup>28</sup> PBTD	<sup>29</sup> Perforations
<sup>30</sup> Hole Size	<sup>31</sup> Casing & Tubing Size	<sup>32</sup> Depth Set	<sup>33</sup> Sacks Cement	

VI. Well Test Data

<sup>34</sup> Date New Oil	<sup>35</sup> Gas Delivery Date	<sup>36</sup> Test Date	<sup>37</sup> Test Length	<sup>38</sup> Tbg. Pressure	<sup>39</sup> Csg. Pressure
<sup>40</sup> Choke Size	<sup>41</sup> Oil	<sup>42</sup> Water	<sup>43</sup> Gas	<sup>44</sup> AOF	<sup>45</sup> Test Method

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

Signature: *Tanya Atcitty*

Printed Name:  
Tanya Atcitty

Title:  
Production Assistant

Date:  
22 November 1994

Phone  
(505) 326-9700

OIL CONSERVATION DIVISION

Approved by: *27.8*  
SUPERVISOR DISTRICT #3

Title:

Approved Date: NOV 21 1994

"If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature	Printed Name	Title	Date
-----------------------------	--------------	-------	------

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

NO. OF COPIES RECEIVED	
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LAND OFFICE	
TRANSPORTER	OIL
	GAS
OPERATOR	
PRODUCTION OFFICE	

OIL CONSERVATION DIVISION  
P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

Form C-104  
Revised 10-01-78  
Format 06-01-83  
Page 1

REQUEST FOR ALLOWABLE  
AND  
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

I.

Operator Meridian Oil Inc.	
Address P. O. Box 4289, Farmington, NM 87499	
Reason(s) for filing (Check proper box)	Other (Please explain)
<input type="checkbox"/> New Well <input type="checkbox"/> Recompletion <input checked="" type="checkbox"/> Change in <del>Ownership</del> Operatorship	Meridian Oil Inc. is Operator for El Paso Production Company
Change in Transporter of: <input type="checkbox"/> Oil <input type="checkbox"/> Casinhead Gas <input checked="" type="checkbox"/> Condensate	<input type="checkbox"/> Dry Gas <input checked="" type="checkbox"/> Condensate

If change of ownership give name and address of previous owner El Paso Natural Gas Company, P. O. Box 4289, Farmington, NM 87499

II. DESCRIPTION OF WELL AND LEASE

Lease Name San Juan 27-4 Unit	Well No. 116	Pool Name, including Formation Tapacito Pictured Cliffs	Kind of Lease State, (Federal) or Fee	Lease No. SF 080670
Location				
Unit Letter <u>I</u>	<u>1680</u>	Feet From The <u>South</u> Line and	<u>840</u>	Feet From The <u>East</u>
Line of Section <u>32</u>	Township <u>27N</u>	Range <u>4W</u>	NMPM, <u>Rio Arriba</u>	County

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Meridian Oil Inc.	P. O. Box 4289, Farmington, NM 87499
Name of Authorized Transporter of Casinhead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Northwest Pipeline Corp.	P. O. Box 8900, Salt Lake City, Ut 84110
If well produces oil or liquids, give location of tanks.	Is gas actually connected? When
Unit <u>I</u> Sec. <u>32</u> Twp. <u>27N</u> Rge. <u>4W</u>	

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

NOTE: Complete Parts IV and V on reverse side if necessary.

VI. CERTIFICATE OF COMPLIANCE

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

[Signature]  
(Signature)  
Drilling Clerk  
(Title)  
11-1-86  
(Date)

OIL CONSERVATION DIVISION  
NOV 01 1986

APPROVED \_\_\_\_\_ 19\_\_\_\_  
BY [Signature]  
TITLE SUPERVISION DISTRICT #3

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply completed wells.

NOV 01 1986

OIL CON. DIV.  
DIST. 3



NEW MEXICO OIL CONSERVATION COMMISSION  
REQUEST FOR ALLOWABLE  
AND  
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104  
Supersedes Old C-104 and C-  
Effective 1-1-65

DISTRIBUTION		5
SANTA FE		1
FILE		1
U.S.G.S.		
LAND OFFICE		
TRANSPORTER	OIL	1
	GAS	1
OPERATOR		1
PRORATION OFFICE		

I.

Operator

El Paso Natural Gas Company

Address

P. O. Box 990, Farmington, New Mexico 87401

Reason(s) for filing (Check proper box)

New Well

☒

Change in Transporter of:

Recompletion

☐

Oil

☐

Dry Gas

☐

Change in Ownership

☐

Casinghead Gas

☐

Condensate

☐

Other (Please explain)

If change of ownership give name  
and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Lease Name	Well No.	Pool Name, including Formation	Kind of Lease	Lease No.
San Juan 27-4 Unit	116	Tapacito Pictured Cliffs	State, (Federal) or Fee	SF080670
Location				
Unit Letter	I	1680	Feet From The	South
			Line and	840
			Feet From The	East
Line of Section	32	Township	27-N	Range
			4-W	NMPM, Rio Arriba
				County

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil	<input type="checkbox"/>	or Condensate	<input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
El Paso Natural Gas Company				P. O. Box 990, Farmington, New Mexico 87401
Name of Authorized Transporter of Casinghead Gas	<input type="checkbox"/>	or Dry Gas	<input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Northwest Pipeline Corporation				P. O. Box 90, Farmington, New Mexico 87401
If well produces oil or liquids, give location of tanks.	Unit	Sec.	Twp.	Rge.
	I	32	27-N	4-W
				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 Res'v.	Diff. Res'v.
		X	X					
Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.					
07-16-76	10-12-76	3885'	3875'					
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation	Top of Gas Pay	Tubing Depth					
6961' GL	Pictured Cliffs	3757	Tubingless					
Perforations			Depth Casing Shoe					
3757', 3767', 3775', 3797', 3805', 3818'			3885'					
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT					
12 1/4"	8 5/8"	133'	105 cu. ft.					
6 3/4"	2 7/8"	3885'	211 cu. ft.					
	Tubingless Completion							

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pitot, back pr.)	Tubing Pressure (shut-in)	Casing Pressure (shut-in)	Choke Size
		1046	

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.

W. D. Buess  
(Signature)

Drilling Clerk

(Title)

October 15, 1976

(Date)

OIL CONSERVATION COMMISSION

APPROVED

BY

TITLE

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiple

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42 R1424  
5. LEASE DESIGNATION AND SERIAL NO.

SF 080670

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. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR El Paso Natural Gas Company		San Juan 27-4 Unit
3. ADDRESS OF OPERATOR Box 990, Farmington, New Mexico 87401		8. FARM OR LEASE NAME San Juan 27-4 Unit
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1680'S, 840'E		9. WELL NO. 116
14. PERMIT NO.		10. FIELD AND POOL, OR WILDCAT Tapacito PC
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6961' GL		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 32, T-27-N, R-4-W N.M.P.M.
		12. COUNTY OR PARISH Rio Arriba
		13. STATE New Mexico

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

PULL OR ALTER CASING

<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>
<input type="checkbox"/>

REPAIRING WELL

<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT\*

(Other)

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

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

09-05-76 Tested surface casing; held 600#/30 minutes.

09-11-76 TD 3885'. Ran 134 joints, 2 7/8", 6.4#, K-55 production casing, 3873' set at 3885', Baffle set at 3875'. Cemented with 211 cu. ft. cement. WOC 18 hours. Top of cement at 2700'.

09-20-76 Tested casing to 4000#--OK. PBD 3875'. Perf'd 3757', 3767', 3775', 3797', 3805', 3818' with 1 shot per zone. Frac'd with 60,000#--10/20 sand and 43,350 gallons treated water. Dropped no sets of balls. Flushed with 925 gallons water.



RECEIVED

SEP 22 1976

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

SIGNED

*A. G. Duico*

TITLE Drilling Clerk

DATE September 21, 1976

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE\*

(See other In-  
structions on  
reverse side)Form approved,  
Budget Bureau No. 42 1355.5.

5. LEASE DESIGNATION AND SERIAL NO.

SF 080670

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

San Juan 27-4 Unit

8. FARM OR LEASE NAME

San Juan 27-4 Unit

9. WELL NO.

116

10. FIELD AND POOL OR WILDCAT

Tapacito Pictured Cliffs

11. SEC. T. R. M. OR BLOCK AND SURVEY  
OR AREA

Sec. 32, T-27-N, R-4-W

N.M.P.M.

12. COUNTY OR  
PARISH

Rio Arriba

13. STATE

New Mexico

14. PERMIT NO.

OCT 28 1976  
OIL CON. COM.  
DIST. 3

15. DATE SPUNDED

07-16-76

16. DATE T.D. REACHED

09-10-76

17. DATE COMPL. (Ready to prod.)

10-12-76

18. ELEVATIONS (DE, RKE, RT, GR, ETC.)\*

6961' GL

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD &amp; TVD

3885'

21. PLUG. BACK T.D., MD &amp; TVD

3875'

22. IF MULTIPLE COMPL.  
HOW MANY\*23. INTERVALS  
DRILLED BY

0-3885

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)\*

3757-3818 (PC)

25. WAS DIRECTIONAL  
SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

IEL; CDL-GR; Temp. Survey

27. WAS WELL CORED

No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24#	133'	12 1/4"	105 cf.	
2 7/8"	6.4#	3885'	6 3/4"	211 cf.	
					1010

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					Tubingless		

31. PERFORATION RECORD (Interval, size and number)

3757', 3767' 3775', 3797', 3805', 3818'  
with 1 shot per zone.

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3757-3818	60,000# sd; 43,350 gallons water

33.\*

PRODUCTION

DATE FIRST PRODUCTION

PRODUCTION METHOD (Flowing, ~~gauge test, etc.~~)

After frac gauge - 1200 MCF/D

WELL STATUS (Producing or  
shut-in)

Shut-in

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL--BBL.	GAS--MCF.	WATER--BBL.	GAS-OIL RATIO
10-12-76							
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL--BBL.	GAS--MCF.	WATER--BBL.	OIL GRAVITY-API (CORR.)	
	SF 1046						

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

TEST WITNESSED BY

C. R. Wagner

35. LIST OF ATTACHMENTS

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

SIGNED

TITLE

Drilling Clerk

DATE

10-15-76

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

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal or State office. See instructions on Items 22 and 24, and 33, below regarding separate reports for separate completions. If not filed prior to the time this summary report is submitted, copies of all currently available logs (drillers, geologists, multiple and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

**Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29: "Sacks Cement":** Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for Items 22 and 24 above.)

7. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES				38. GEOLOGIC MARKERS	
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP MEAS. DEPTH TRUE VERT. DEPTH
				Pictured Cliffs	3750'

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. SF080670
2. NAME OF OPERATOR El Paso Natural Gas Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P. O. Box 990, Farmington, NM 87401		7. UNIT AGREEMENT NAME San Juan 27-4 Unit
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1680'S, 840'E		8. FARM OR LEASE NAME San Juan 27-4 Unit
14. PERMIT NO.		9. WELL NO. 116
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6961' GL		10. FIELD AND POOL, OR WILDCAT Tapacito PC
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 32, T-27-N, R-4-W N.M.P.M.
		12. COUNTY OR PARISH Rio Arriba
		13. STATE New Mexico

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

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 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.)\*

07-16-76 Spudded well. Drilled surface hole.

07-20-76 Ran 3 joints 8 5/8", 24#, K-55 surface casing, 121' set at 133'. Cemented with 105 cu. ft. cement. Circulated to surface.

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

SIGNED

TITLE

Drilling Clerk

DATE

July 22, 1976

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

30-039-21007

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL  
OIL WELL ☐ GAS WELL ☒ OTHER ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. NAME OF OPERATOR  
El Paso Natural Gas Company

3. ADDRESS OF OPERATOR  
PO Box 990, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
At surface  
1680'S, 840'E  
At proposed prod. zone

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

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
6961'GR

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24.0#	120'	105 cu. ft. to circulate
6 3/4"	2 7/8"	6.4#	3885'	190 cu. ft. to cover Ojo Alamo

Selectively perforate and sandwater fracture the Pictured Cliffs formation.

Forest approval has been secured.

The SE/4 of Section 32 is dedicated to this well.

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 A. G. Dices TITLE Drilling Clerk DATE August 26, 1974

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY GA TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

**NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102  
Supersedes C-128  
Effective 1-1-65

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

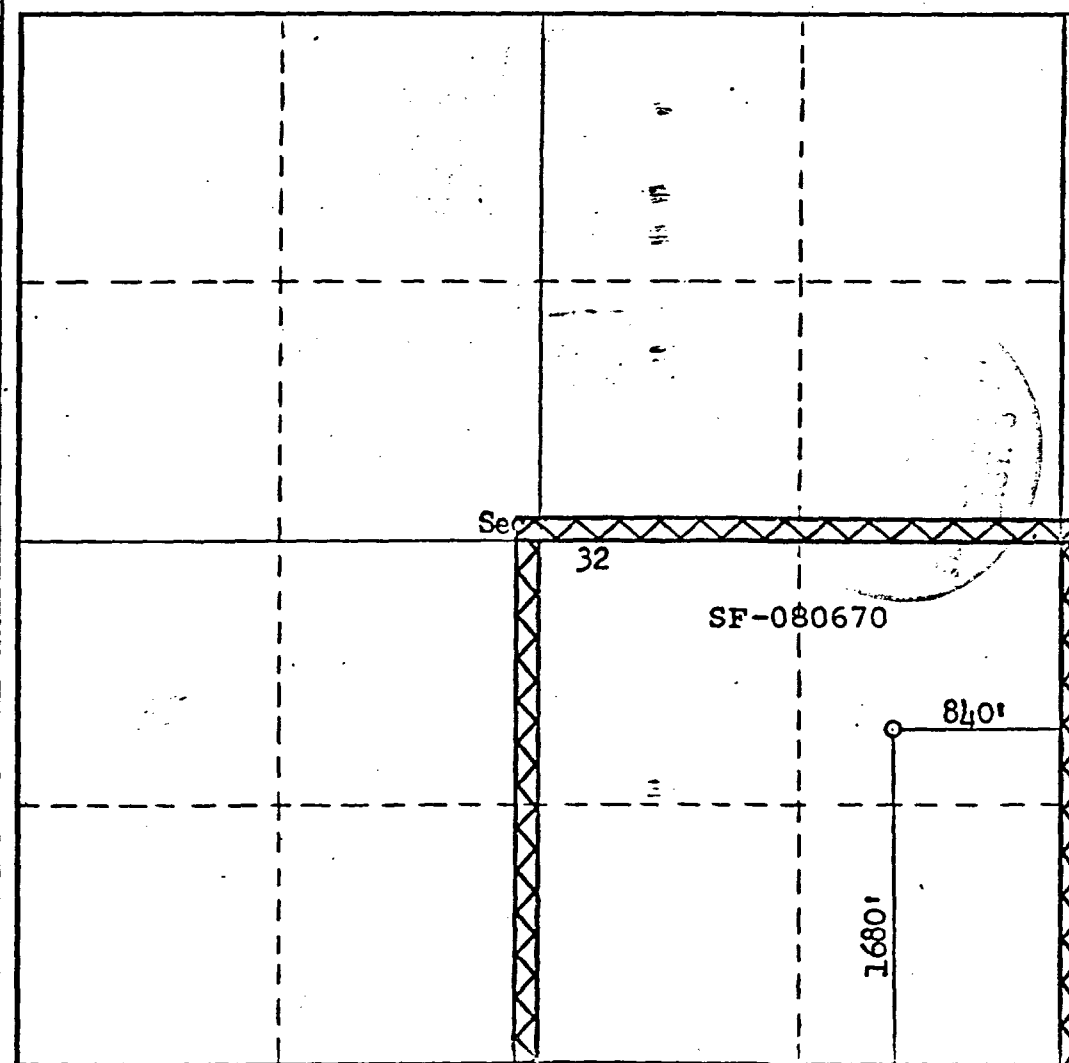
Operator <b>El Paso Natural Gas Company</b>			Lease <b>San Juan 27-4 Unit (SF-080670)</b>		Well No. <b>116</b>
Unit Letter <b>I</b>	Section <b>32</b>	Township <b>27N</b>	Range <b>14W</b>	County <b>Rio Arriba</b>	
Actual Footage Location of Well: <b>1680</b> feet from the <b>South</b> line and <b>840</b> feet from the <b>East</b> line					
Ground Level Elev. <b>6961</b>	Producing Formation <b>Pictured Cliffs</b>		Pool <b>TAPACITO PICTURED CLIFFS</b>		Dedicated Acreage: <b>160.00</b> 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 Commission.



**CERTIFICATION**

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

*[Signature]*

Name  
**Drilling Clerk**

Position  
**El Paso Natural Gas Co.**

Company  
**August 26, 1974**

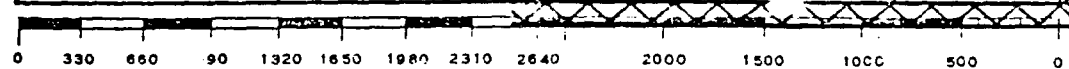
Date

*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  
**April 26, 1974**

Registered Professional Engineer and/or Land Surveyor  
*[Signature]*  
**Fred B. Kott Jr.**

Certificate No.  
**3950**



CMD :  
OG5SECTONGARD  
INQUIRE LAND BY SECTION03/19/01 11:05:39  
OGOMES -TPKE  
PAGE NO: 1

Sec : 32 Twp : 27N Rng : 04W Section Type : NORMAL

D 40.00	C 40.00	B 40.00	A 40.00
Federal owned	Federal owned	Federal owned	Federal owned
			A
E 40.00	F 40.00	G 40.00	H 40.00
Federal owned	Federal owned	Federal owned	Federal owned
	A	A	

PF01 HELP  
PF07 BKWDPF02  
PF08 FWDPF03 EXIT  
PF09 PRINTPF04 GoTo  
PF10 SDIVPF05  
PF11PF06  
PF12



CMD :  
OG5SECTONGARD  
INQUIRE LAND BY SECTION03/19/01 11:05:44  
OGOMES -TPKE  
PAGE NO: 2

Sec : 32 Twp : 27N Rng : 04W Section Type : NORMAL

L 40.00	K 40.00	J 40.00	I 40.00
Federal owned	Federal owned	Federal owned A	Federal owned A A
M 40.00	N 40.00	O 40.00	P 40.00
Federal owned	Federal owned A A A	Federal owned	Federal owned

PF01 HELP  
PF07 BKWDPF02  
PF08 FWDPF03 EXIT  
PF09 PRINTPF04 GoTo  
PF10 SDIVPF05  
PF11PF06  
PF12

CMD : ONGARD 03/19/01 11:07:24  
OG6IWCM INQUIRE WELL COMPLETIONS OGOMES -TPKE

API Well No : 30 39 22375 Eff Date : 02-01-1981 WC Status : A  
Pool Idn : 72319 BLANCO-MESAVERDE (PRORATED GAS)  
OGRID Idn : 14538 BURLINGTON RESOURCES OIL & GAS CO  
Prop Idn : 7452 SAN JUAN 27 4 UNIT

Well No : 108  
GL Elevation: 6968

	U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
	---	---	-----	-----	-----	-----	-----
B.H. Locn : J	32	27N	04W	FTG 1810 F S	FTG 1580 F E		P
Lot Identifier:							
Dedicated Acre: 320.00							
Lease Type : F							
Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :							

M0025: Enter PF keys to scroll

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06
PF07	PF08	PF09	PF10 NEXT-WC	PF11 HISTORY	PF12 NXTREC

CMD : ONGARD 03/19/01 11:07:11  
OG6IWCM INQUIRE WELL COMPLETIONS OGOMES -TPKE

API Well No : 30 39 21007 Eff Date : 01-01-1977 WC Status : A  
Pool Idn : 85920 TAPACITO PICTURED CLIFFS (PRO GAS)  
OGRID Idn : 14538 BURLINGTON RESOURCES OIL & GAS CO  
Prop Idn : 7452 SAN JUAN 27 4 UNIT

Well No : 116  
GL Elevation: 6961

	U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
B.H. Locn	I	32	27N	04W	FTG 1680 F S FTG	840 F E	P
Lot Identifier:							
Dedicated Acre:							160.00
Lease Type							F
Type of consolidation							(Comm, Unit, Forced Pooling - C/U/F/O) :

M0025: Enter PF keys to scroll

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06
PF07	PF08	PF09	PF10 NEXT-WC	PF11 HISTORY	PF12 NXTREC

CMD : ONGARD 03/19/01 11:07:01  
OG6C101 C101-APPLICATION FOR PERMIT TO DRILL OGOMES -TPKE

OGRID Idn : 14538 API Well No: 30 39 26455 APD Status(A/C/P): A  
Opr Name, Addr: BURLINGTON RESOURCES OIL & GAS C Aprvl/Cncl Date : 05-24-2000  
801 CHERRY ST  
FT WORTH, TX 76102

Prop Idn: 7452 SAN JUAN 27 4 UNIT Well No: 54 M

	U/L	Sec	Township	Range	Lot	Idn	North/South	East/West
	---	---	-----	-----	-----	-----	-----	-----
Surface Locn :	I	32	27N	04W			FTG 1940 F S	FTG 100 F E
OCD U/L :	I		API County :	39				

Work typ(N/E/D/P/A) : N Well typ(O/G/M/I/S/W/C): G Cable/Rotary (C/R) : F  
Lease typ(F/S/P/N/J/U/I): F Ground Level Elevation : 6960

State Lease No: Multiple Comp (S/M/C) : M  
Prpsd Depth : 8182 Prpsd Frmtn : BLANCO MESAVERDE/BASIN DAKOTA

E0009: Enter data to modify record

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06 CONFIRM
PF07	PF08	PF09 PRINT	PF10 C102	PF11 HISTORY	PF12

CMD :  
OG6IWCM

ONGARD  
INQUIRE WELL COMPLETIONS

03/19/01 11:05:56  
OGOMES -TPK5

API Well No : 30 39 20141 Eff Date : 01-01-1900 WC Status : A  
Pool Idn : 71599 BASIN DAKOTA (PRORATED GAS)  
OGRID Idn : 14538 BURLINGTON RESOURCES OIL & GAS CO  
Prop Idn : 7452 SAN JUAN 27 4 UNIT

Well No : 054  
GL Elevation: 7143

	U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
	---	---	-----	-----	-----	-----	-----
B.H. Locn : A	32	27N	04W	FTG	810 F N	FTG 910 F E	P

Lot Identifier:  
Dedicated Acre: 320.00  
Lease Type : F  
Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

M0025: Enter PF keys to scroll

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06
PF07	PF08	PF09	PF10 NEXT-WC	PF11 HISTORY	PF12 NXTREC

CMD : ONGARD 03/19/01 11:06:28  
 OG6ACRE C102-DEDICATE ACREAGE OGOMES -TPK5  
 Page No : 1

API Well No : 30 39 20141 Eff Date : 04-30-1991  
 Pool Idn : 71599 BASIN DAKOTA (PRORATED GAS)  
 Prop Idn : 7452 SAN JUAN 27 4 UNIT Well No : 054  
 Spacing Unit : 30858 OCD Order : Simultaneous Dedication:  
 Sect/Twp/Rng : Acreage : 320.00 Revised C102? (Y/N) :  
 Dedicated Land:

S	Base	U/L	Sec	Twp	Rng	Acreage	L/W	Ownership	Lot	Idn
	A	32	27N	04W	40.00	N	FD			
	B	32	27N	04W	40.00	N	FD			
	G	32	27N	04W	40.00	N	FD			
	H	32	27N	04W	40.00	N	FD			
	I	32	27N	04W	40.00	N	FD			
	J	32	27N	04W	40.00	N	FD			
	O	32	27N	04W	40.00	N	FD			
	P	32	27N	04W	40.00	N	FD			

E0005: Enter data to modify or PF keys to scroll

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM  
 PF07 BKWD PF08 FWD PF09 PF10 LAND PF11 NXTSEC PF12 RECONF

CMD :  
OG6IWCM

ONGARD  
INQUIRE WELL COMPLETIONS

03/19/01 11:06:01  
OGOMES -TPK5

API Well No : 30 39 20141    Eff Date : 10-15-1999    WC Status : A  
Pool Idn : 72319 BLANCO-MESAVERDE (PRORATED GAS)  
OGRID Idn : 14538 BURLINGTON RESOURCES OIL & GAS CO  
Prop Idn : 7452 SAN JUAN 27 4 UNIT

Well No : 054  
GL Elevation: 7143

	U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
	---	---	-----	-----	-----	-----	-----
B.H. Locn : A	32	27N	04W	FTG	810 F N	FTG 910 F E	P

Lot Identifier:  
Dedicated Acre: 320.00  
Lease Type : F  
Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06
PF07	PF08	PF09	PF10 NEXT-WC	PF11 HISTORY	PF12 NXTREC