

NSL 2/18/97

BURLINGTON RESOURCES

RECEIVED
JAN 28 1997

SAN JUAN DIVISION

January 27, 1997

Sent Federal Express

Mr. William LeMay
New Mexico Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505

Re: San Juan 29-7 Unit #549
1550'FNL, 1100'FWL Section 9, T-29-N, R-7-W, Rio Arriba County, New Mexico
API # 30-039-(not yet assigned)

Dear Mr. LeMay:

Burlington Resources is applying for administrative approval of a non-standard location for the above location in the Fruitland Coal formation. This application is considered off-pattern for the Fruitland Coal and is due to terrain in the southwest quarter of the section; at the request of the landowner in the NESW, who has farm buildings; at the request of the Bureau of Land Management; and archaeology.

The following attachments are for your review:

1. Application for Permit to Drill.
2. Completed C-102 at referenced location.
3. Offset operators/owners plat - Burlington is the offset operator
4. 7.5 minute topographic map showing the orthodox windows, and enlargement of the map to define topographic features.

We appreciate your earliest consideration of this application.

Sincerely,


 Peggy Bradfield
 Regulatory/Compliance Representative

NSL-COAL.5

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-078423 Unit Reporting Number 891001650C	
1b. Type of Well GAS	6. If Indian, All. or Tribe	
2. Operator BURLINGTON RESOURCES Oil & Gas Company	7. Unit Agreement Name San Juan 29-7 Unit	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name San Juan 29-7 Unit 9. Well Number 549	
4. Location of Well 1550' FNL, 1100' FWL Latitude 36° 44.6, Longitude 107° 34.8	10. Field, Pool, Wildcat Basin Fruitland Coal 11. Sec., Twn, Rge, Mer. (NMPM) Sec 9, T-29-N, R-7-W API # 30-039-	
14. Distance in Miles from Nearest Town 2 miles to Navajo City	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1100'	17. Acres Assigned to Well 320 W/2	
16. Acres in Lease	20. Rotary or Cable Tools Rotary	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 2000'	22. Approx. Date Work will Start	
19. Proposed Depth 2920'	Date	
21. Elevations (DF, FT, GR, Etc.) 6132' GR	Date	
23. Proposed Casing and Cementing Program See Operations Plan attached	Date	
24. Authorized by: <u><i>Regina Stoddard</i></u> Regulatory/Compliance Administrator	Date <u>1-9-97</u>	

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

Archaeological Report submitted by DCA #96-DCA-061
Threatened and Endangered Species Report submitted by Ecosphere
NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

District I
 PO Box 1980, Hobbs, NM 88241-1980
 District II
 PO 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
 PO Box 2088
 Santa Fe, NM 87504-2088

Form C-102
 Revised February 21, 1994
 Instructions on back
 Submit to Appropriate District Office
 State Lease - 4 Copies
 Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-		Pool Code 71629	Pool Name Basin Fruitland Coal
Property Code 7465	Property Name San Juan 29-7 Unit		Well Number 549
OGRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY		Elevation 6132'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
E	9	29-N	7-W		1550	North	1100	West	R.A.

¹¹ Bottom Hole Location If Different From Surface

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

¹² Dedicated Acres W/320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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

	¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</i> <i>Peggy Bradfield</i> Signature Peggy Bradfield Printed Name Regulatory Administrator Title 1-9-97 Date
	¹⁸ SURVEYOR CERTIFICATION <i>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.</i> 11/11/96 Date of Survey Signature and Seal of Professional Surveyor 6857 Certificate Number

OPERATIONS PLAN

Well Name: San Juan 29-7 Unit #549
Location: 1550' FNL, 1100' FWL Section 9, T-29-N, R-7-W
 Latitude 36° 44.6, Longitude 107° 34.8
 Rio Arriba County, NM
Formation: Basin Fruitland Coal
Elevation: 6132' GL

Formation:	Top	Bottom	Contents
Surface	San Jose	1900'	
Ojo Alamo	1900'	2115'	aquifer
Kirtland	2115'	2630'	
Fruitland	2630'	2915'	gas
Fruitland Coal	2650'	2915'	gas
Total Depth	2920'		

Logging Program: Mud logs from 2620' to Total Depth.

Coring Program: none

Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0-125'	Spud	8.4-9.0	40-50	no control
125-2620'	Non-dispersed	8.4-9.0	30-60	no control
2620-2920'	Air			

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' - 125'	9 5/8"	32.3#	H-40
8 3/4"	0' - 2620'	7"	20.0#	K-55
6 1/4"	2520' - 2920'	5 1/2"	15.5#	K-55

Tubing Program:

0' - 2920'	2 3/8"	4.7#	J-55
------------	--------	------	------

Float Equipment: 9 5/8" surface casing - saw tooth guide shoe. Centralizers will be run in accordance with Onshore Order #2.

7" intermediate casing - guide shoe and self-fill float collar. Three centralizers run every fourth joint above shoe. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 2115'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

5 1/2" production casing - float shoe on bottom and pre-drilled liner run to the 7" casing with a minimum 100' overlap. Liner hanger is a double slip grip type.

Wellhead Equipment: 9 5/8" x 7" x 2 3/8" x 11" 3000 psi xmas tree assembly.

January 9, 1997

Cementing:

9 5/8" surface casing - cement with 103 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (118 cu.ft. of slurry, 200% excess to circulate to surface). WOC 12 hrs. Test casing to 600 psi/30 minutes.

7" intermediate casing - lead w/379 sacks 65/35 Class "B" Pozmix with 2% calcium chloride, 3 pps gilsonite, and 1/4#/sack flocele. Tail with 100 sacks Class "B" neat with 2% calcium chloride (789 cu.ft., 100% excess to circulate to surface).

5 1/2" liner - uncemented.

BOP and tests:

Surface to intermediate TD - 11" 2000 psi (minimum) double gate BOP stack (Reference Figure #1). Prior to drilling out surface casing, test rams to 600#/30 min.

Intermediate TD to Total Depth - 7 1/6" 3000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to drilling out intermediate casing, test blind rams and casing to 2500 psi for 30 minutes; all pipe rams and casing to 2500 psi for 30 minutes each.

From surface to TD - choke manifold (Reference Figure #3).

Pipe rams will be actuated at least once each day and blind rams actuated once each trip to test proper functioning. An upper kelly cock valve with handle and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

Additional information:

- * The Fruitland Coal formation will be completed.
- * Anticipated pore pressure for the Fruitland is 1000 psi.
- * This gas is dedicated.
- * New casing will be utilized.
- * Pipe movement (either rotation or reciprocation) will be done if hole conditions permit.

Date: 1/14/97

Drilling Engineer: Andy J.A.

BURLINGTON RESOURCES

San Juan 29-7 Unit #549
Multi-Point Surface Use Plan

1. Existing Roads - Refer to Map No. 1. Existing roads used to access the proposed location will be properly maintained for the duration of the project. Bureau of Land Management right-of-way has been applied for as shown on Map No. 1.
2. Planned Access Road - Refer to Map No. 1. The required new access road is shown on Map No. 1. The gradient, shoulder, crowning and other design elements will meet or exceed those specified by the responsible government agency. The new access road surface will not exceed twenty feet (20') in width. No additional turnarounds or turnouts will be required. Upon completion of the project, the access road will be adequately drained to control soil erosion. Approximately 1800' of access road will be constructed. Pipelines are indicated on Map No. 1A.
3. Location of Existing Wells - Refer to Map No. 1A.
4. Location of Existing and/or Proposed Facilities if Well is Productive -
 - a. On the Well Pad - Refer to Plat No. 1, anticipated production facilities plat.
 - b. Off the Well Pad - Anticipated facilities off the well pad will be applied for as required.
5. Location and Type of Water Supply - Water will be hauled by truck for the proposed project and will be obtained from San Juan 29-6 Water Well #1 in located in SW/4 Section 28, T-29-N, R-6-W, New Mexico.
6. Source of Construction Materials - If construction materials are required for the proposed project, such materials will be obtained from a commercial quarry.
7. Methods of Handling Waste Materials - All garbage and trash materials will be removed from the site for proper disposal. A portable toilet will be provided for human waste and serviced in a proper manner. If liquids are left in the reserve pit after completion of the project, the pit will be fenced until the liquids have had adequate time to dry. The location clean-up will not take place until such time as the reserve pit can be properly covered over to prevent run-off from carrying waste materials into the watershed. Reserve pits will be lined as needed with either 12 mil bio-degradable plastic liner or a bentonite liner. All earthen pits will be so constructed as to prevent leakage from occurring; no earthen pit will be located on natural drainage. Generation of hazardous waste is not anticipated. Federal regulations will be adhered to regarding handling and disposal of such waste if so generated.
8. Ancillary Facilities - None anticipated.
9. Wellsite Layout - Refer to the location diagram and to the wellsite cut and fill diagram (Figure No. 4). The blow pit will be constructed with a 2'/160' grade to allow positive drainage to the reserve pit and prevent standing liquids in the blow pit.

10. Plans for Restoration of the Surface - After completion of the proposed project, the location will be cleaned and leveled. The location will be left in such a condition that will enable reseeding operations to be carried out. Seed mixture as designated by the responsible government agency will be used. The reseeding operations will be performed during the time period set forth by the responsible government agency. The permanent location facilities will be painted as designated by the responsible government agency.
11. Surface Ownership - Bureau of Land Management
12. Other Information - Environmental stipulations as outlined by the responsible government agency will be adhered to. Refer to the archaeological report for a description of the topography, flora, fauna, soil characteristics, dwellings, historical and cultural sites.
13. Operator's Representative and Certification - Burlington Resources Oil & Gas Company Regional Drilling Manager, Post Office Box 4289, Farmington, NM 87499, telephone (505) 326-9700. I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan, are to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Burlington Resources Oil and Gas Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.


Regulatory/Compliance Administrator 1-14-97
Date

pb

NEW BLM
ROW

FEE
LANDS

S. J. 29-7
#549

9

10

16

15

**BURLINGTON
RESOURCES**

**SAN JUAN 29-7 UNIT #549
T29N, R7W**

**600' BLM/1200' FEE New Construction
T29N, R7W**

Section 9: SWNW 1800'

APD MAP #1

Escondido

Canyon

GOBERNADOR

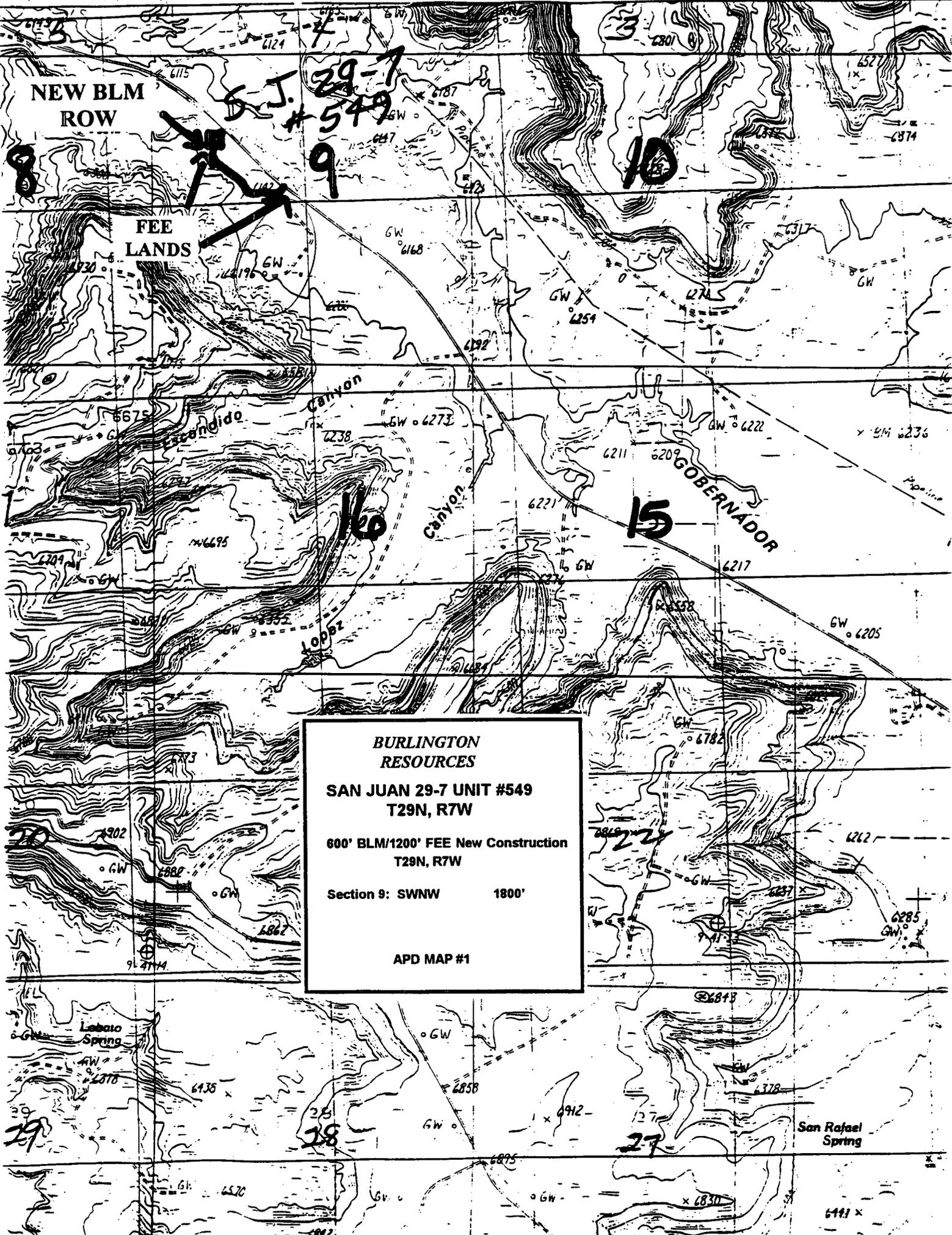
Labato
Spring

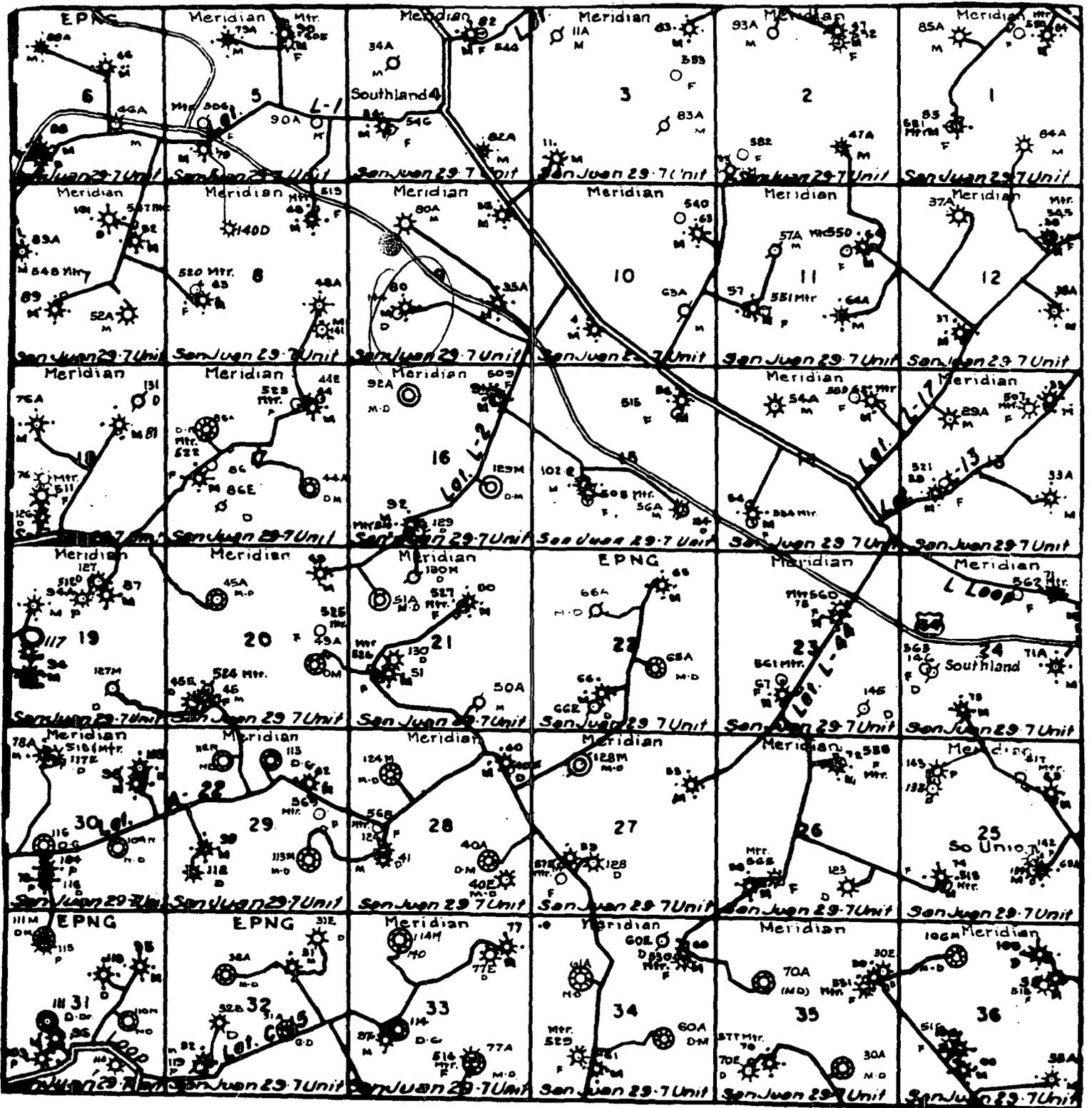
San Rafael
Spring

29

28

27



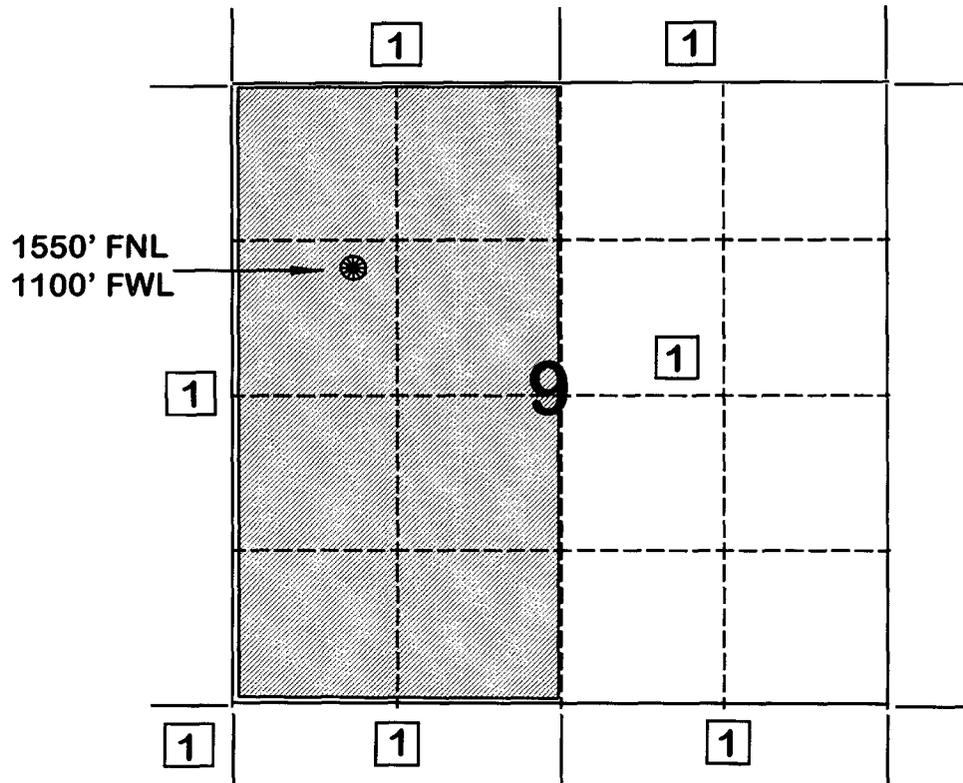


MERIDIAN OIL INC.
 Pipeline Map
 T-29-N, R-07-W
 San Juan County, New Mexico

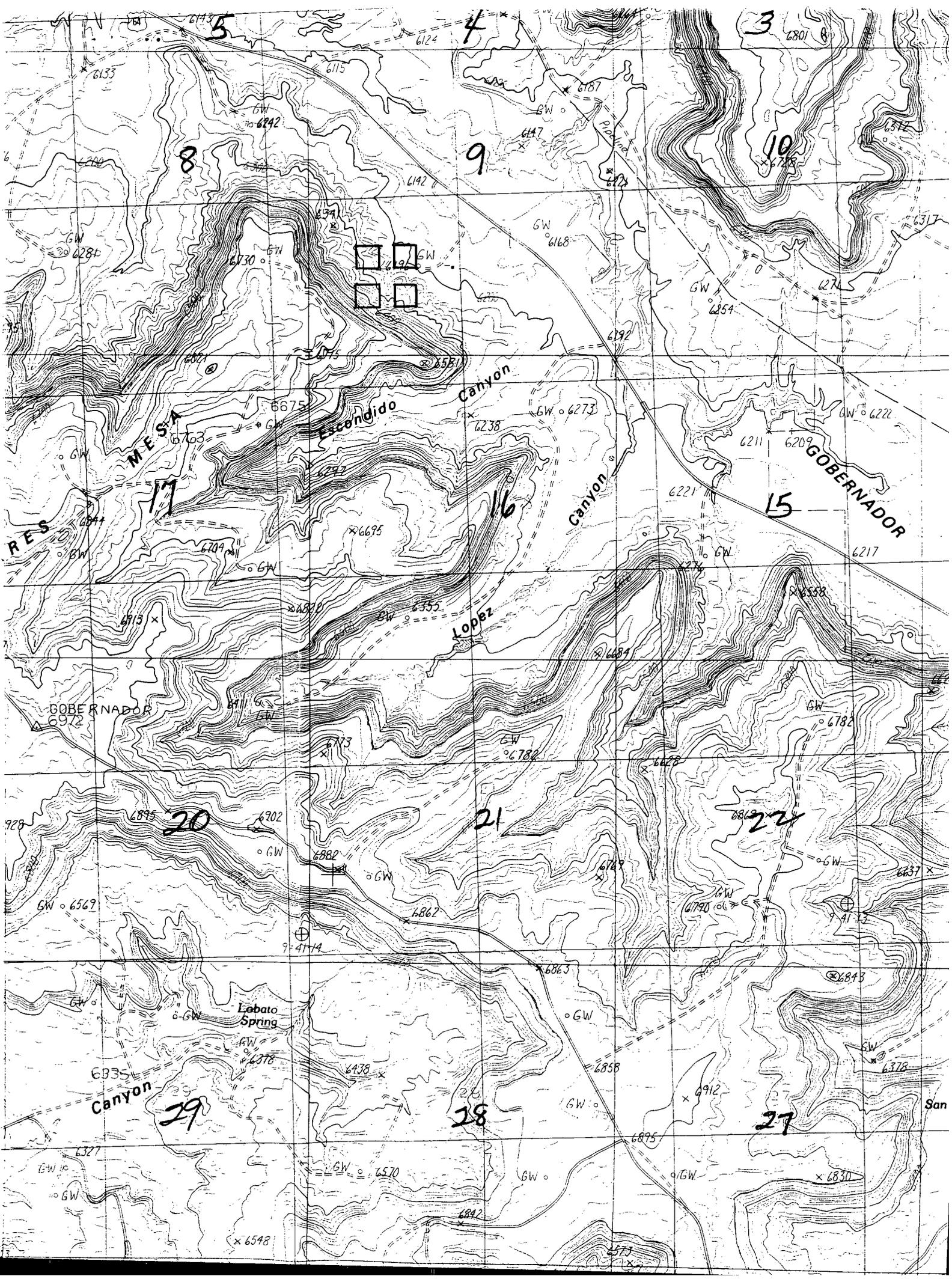
BURLINGTON RESOURCES OIL AND GAS COMPANY

**San Juan 29-7 Unit #549
OFFSET OPERATOR \ OWNER PLAT
Non Standard Location
Fruitland Coal Formation Well**

Township 29 North, Range 7 West



1) Burlington Resources Oil and Gas Company Successor to Meridian Oil Inc.





8

9

17

16

20

21

MESA

Escendido Canyon

Canyon

Canyon

Lopez

GOBERNADOR

Hill 64

RES

Pipeline

7: 4114

6133

6143

6124

6115

6187

6147

6172

6142

6391

6197

6183

6281

6730

6192

6621

6775

6381

6273

6675

6238

6763

6297

6221

6844

6704

6695

6844

6713

6880

6355

6684

6972

6711

6773

6780

6478

928

6875

6702

6789

6569

6882

6862

6863