



# BURLINGTON RESOURCES

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SAN JUAN DIVISION

September 12, 1997

Sent Federal Express

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

Re: San Juan 30-6 Unit #39A  
1390'FSL, 760'FEL Section 13, T-30-N, R-6-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 Mesa Verde formation. This application for the referenced location is due to terrain, and the presence of an abundance of archaeology, and LaJara Wash as shown on the topographic map.

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
4. 7.5 minute topographic map showing the orthodox windows, and enlargement of the map to define topographic features.

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

We appreciate your earliest consideration of this application.

Sincerely,



Peggy Bradfield  
Regulatory/Compliance Administrator

xc: Bureau of Land Management  
NMOCD - Aztec District Office

**WAIVER**

\_\_\_\_\_ hereby waives objection to Burlington Resources' application for a non-standard location for their San Juan 30-6 Unit #39A as proposed above.

By: \_\_\_\_\_ Date: \_\_\_\_\_

xc: Phillips Petroleum

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-080713 Unit Reporting Number 8910005380	
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 30-6 Unit	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499  (505) 326-9700	8. Farm or Lease Name San Juan 30-6 Unit 9. Well Number 39A	
4. Location of Well 1390' FSL, 760' FEL  Latitude 36° 48.5, Longitude 107° 24.6	10. Field, Pool, Wildcat Blanco Mesa Verde 11. Sec., Twn, Rge, Mer. (NMPM) Sec 13, T-30-N, R-6-W API # 30-039-	
14. Distance in Miles from Nearest Town 7 miles to Gobernador	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 760'	17. Acres Assigned to Well 320 E/2	
16. Acres in Lease	17. Acres Assigned to Well 320 E/2	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 1800'	20. Rotary or Cable Tools Rotary	
19. Proposed Depth 5900'	22. Approx. Date Work will Start	
21. Elevations (DF, FT, GR, Etc.) 6318' GR	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by:  Regulatory/Compliance Administrator	Date <u>8-22-97</u>	

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

Archaeological Report to be submitted  
Threatened and Endangered Species Report to be submitted

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-1  
Revised February 21, 19  
Instructions on be  
Submit to Appropriate District Off:  
State Lease - 4 Cop:  
Fee Lease - 3 Cop:

AMENDED REPOF

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-045		<sup>2</sup> Pool Code 72319		<sup>3</sup> Pool Name Blanco/Mesaverde	
<sup>4</sup> Property Code 7469		<sup>5</sup> Property Name SAN JUAN 30-6 UNIT			<sup>6</sup> Well Number 39A
<sup>7</sup> GRID No. 14538		<sup>8</sup> Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY			<sup>9</sup> Elevation 6318'

<sup>10</sup> Surface Location

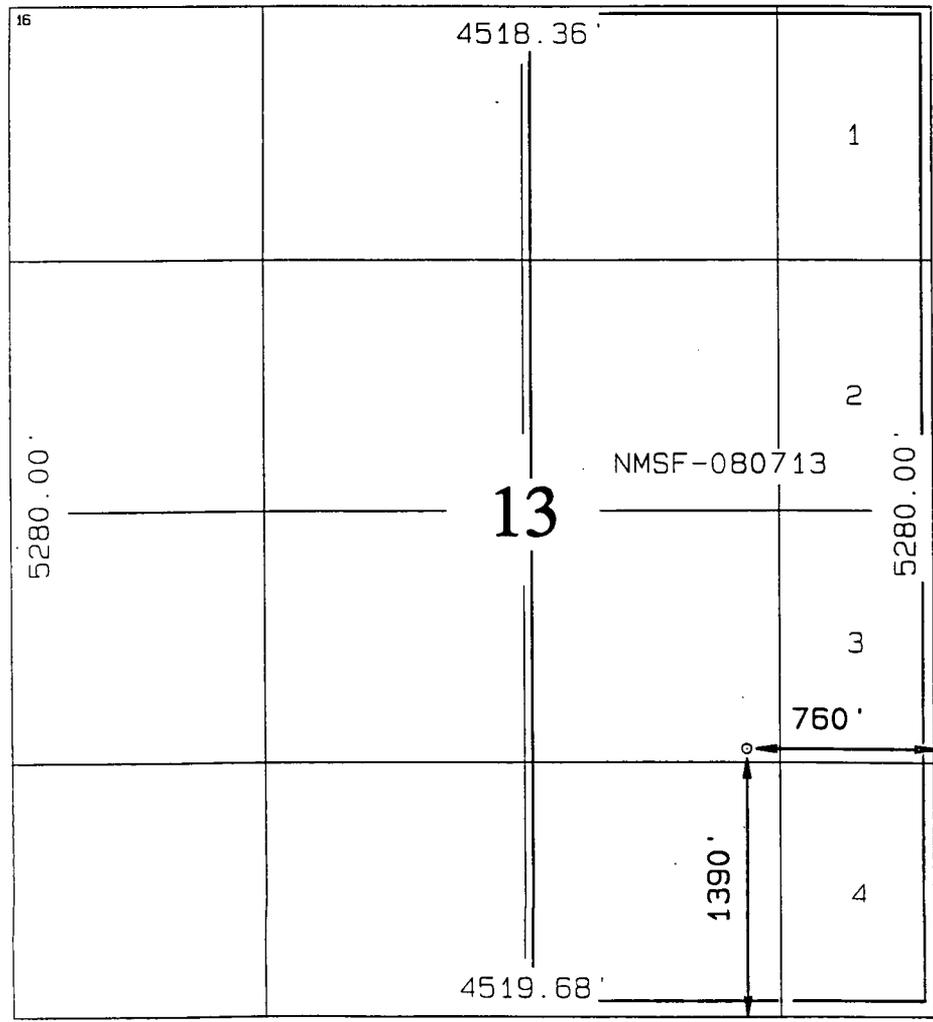
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	13	30N	6W		1390	South	760	East	RIO ARRIBA

<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 E 227.76	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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



<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 Bradfield*  
Signature

Peggy Bradfield  
Printed Name

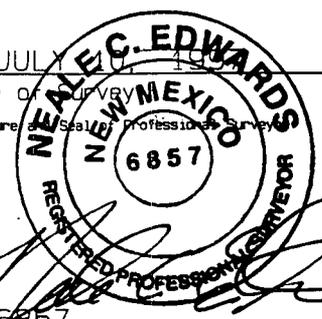
Regulatory Administrator  
Title

8-22-97  
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 or under my supervision, and that the same is true and correct to the best of my belief.

JULY 10 1997  
Date of Survey

Signature of Professional Surveyor



6857  
Certificate Number

## OPERATIONS PLAN

**Well Name:** San Juan 30-6 Unit #39A  
**Location:** 1390' FSL, 760' FEL Section 13, T-30-N, R-6-W  
Rio Arriba County, New Mexico  
Latitude 36° 48.5, Longitude 107° 24.6  
**Formation:** Blanco Mesa Verde  
**Elevation:** 6318' GL

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	2385'	aquifer
Ojo Alamo	2385'	2740'	aquifer
Fruitland	2740'	3140'	
Pictured Cliffs	3140'	3232'	gas
Lewis	3232'	3991'	gas
<b>Intermediate TD</b>	<b>3332'</b>		
Mesa Verde	3991'	4358'	gas
Chacra	4358'	5195'	gas
Massive Cliff House	5195'	5233'	gas
Menefee	5233'	5500'	gas
Massive Point Lookout	5500'		gas
<b>Total Depth</b>	<b>5900'</b>		

### Logging Program:

Cased hole logging - Gamma Ray Neutron  
Coring/DST - 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
200-3332'	LSND	8.4-9.0	30-60	no control
3332-5900'	Gas/Mist	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>Csq. Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0' - 200'	9 5/8"	32.3#	H-40
8 3/4"	0' - 3332'	7"	20.0#	J-55
6 1/4"	3232' - 5900'	4 1/2"	10.5#	J-55

### Tubing Program:

0' - 5900'      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.

BOP Specifications, Wellhead and Tests (cont'd):

**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 2000 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 drill crew.
- All BOP tests & 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 163 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 12 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/266 sx Class "B" w/3% econolite, 10# gilsonite/sx and 1/2# flocele/sx. Tail w/90 sx 50/50 Class "B" Poz w/2% gel, 2% calcium chloride, 0.5# flocele/sx, and 10# gilsonite/sx (877 cu.ft. of slurry, 75% excess to circulate to surface.) WOC minimum of 12 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL will be run to determine TOC. Test casing to 1500 psi for 30 minutes.

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 2740'. Two turbolating centralizers at the base of the Ojo Alamo at 2740'. 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 circulate liner top. Lead with 167 sx 65/35 Class "B" poz w/6% gel, 5# gilsonite/sx and 1/4# flocele/sx. Tail with 135 sx 50/50 Class "B" Poz w/1/4# flocele/sx, 5# gilsonite/sx and 0.3% fluid loss additive (488 cu.ft., 75% excess to circulate liner top). WOC a minimum of 18 hrs prior to completing.

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. The liner hanger will have a rubber packoff.

- If hole conditions permit, an adequate water spacer will be pumped ahead of each cement job to prevent cement/ mud contamination or cement hydration.
- The pipe will be rotated and/or reciprocated, if hole conditions permit.

Special Drilling Operations (Gas/Mist Drilling):

The following equipment will be operational while gas/mist drilling:

- An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- The blooie line will be equipped with an automatic igniter or pilot light.
- Compressors will be located a minimum of 100' from the wellhead in the opposite direction from the blooie line.
- Engines will have spark arresters or water cooled exhaust.
- The rotating head will be properly lubricated and maintained.
- A float valve will be utilized above the bit.
- Mud circulating equipment, water, and mud materials will be sufficient to maintain control of the well.

Additional Information:

- The Mesa Verde formation will be completed.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:
 

Fruitland Coal	800 psi
Pictured Cliffs	800 psi
Mesa Verde	700 psi
- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered below the top of the Pictured Cliffs.
- The east half of the section is dedicated to the Mesa Verde.
- This gas is dedicated.

  
Drilling Engineer

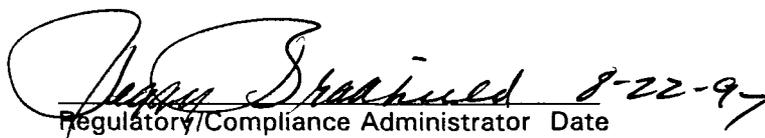
9/5/97  
Date

# ***BURLINGTON RESOURCES***

San Juan 30-6 Unit #39A  
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 1900' 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 pipeline facilities as shown on the attached plat from Williams Field Service.
5. Location and Type of Water Supply - Water will be hauled by truck for the proposed project and will be obtained from LaJara Water Hole located SW/4 Section 11, T-30-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 - Gomez y Gomezz
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 Date 8-22-97

pb

**BURLINGTON  
RESOURCES**

**San Juan 30-6 Unit 39A  
T30N, R6W**

**1900' FEE New Construction  
T30N, R6W**

**Section 13: NESE 900'  
T30N R5W**

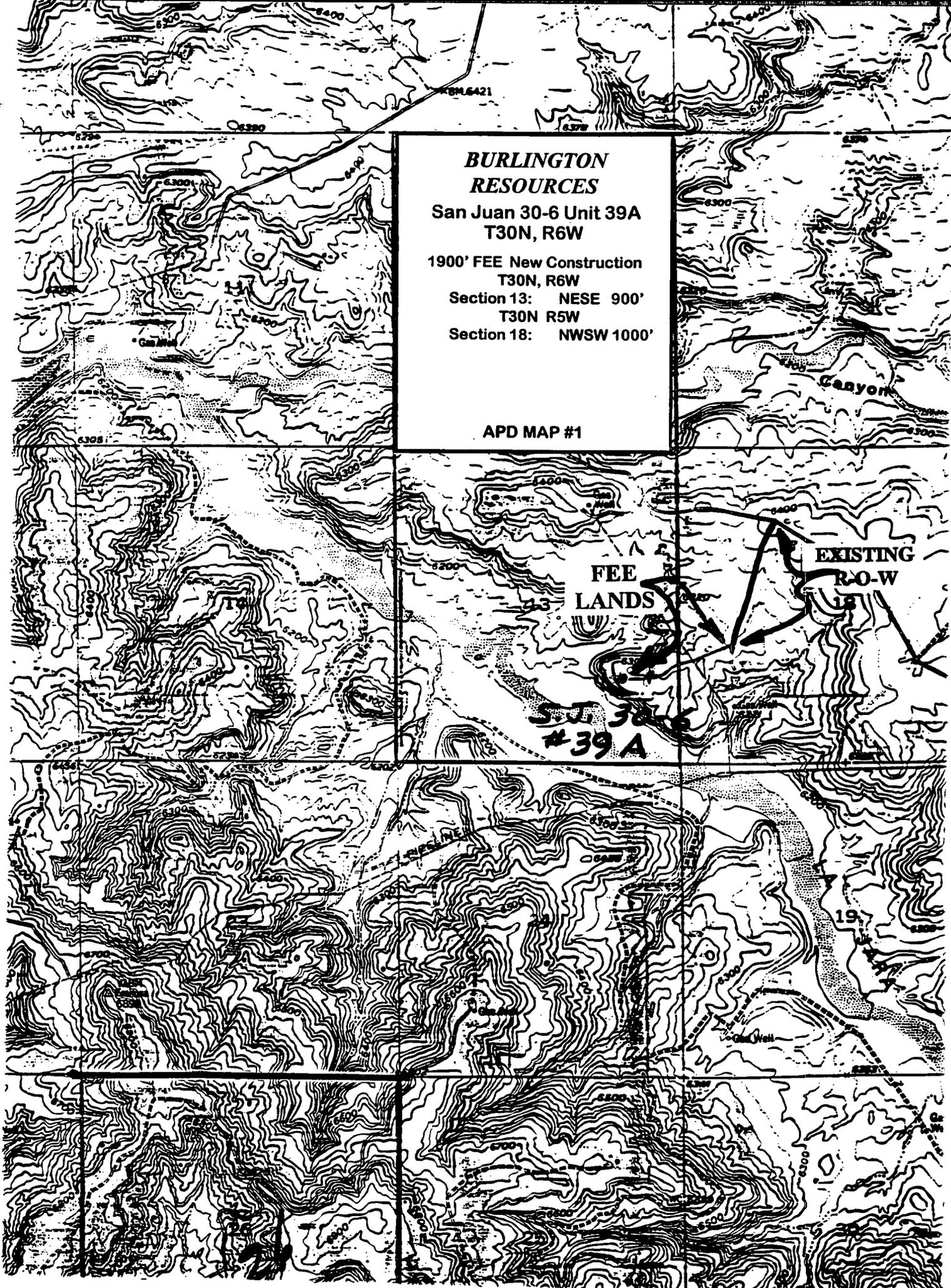
**Section 18: NWSW 1000'**

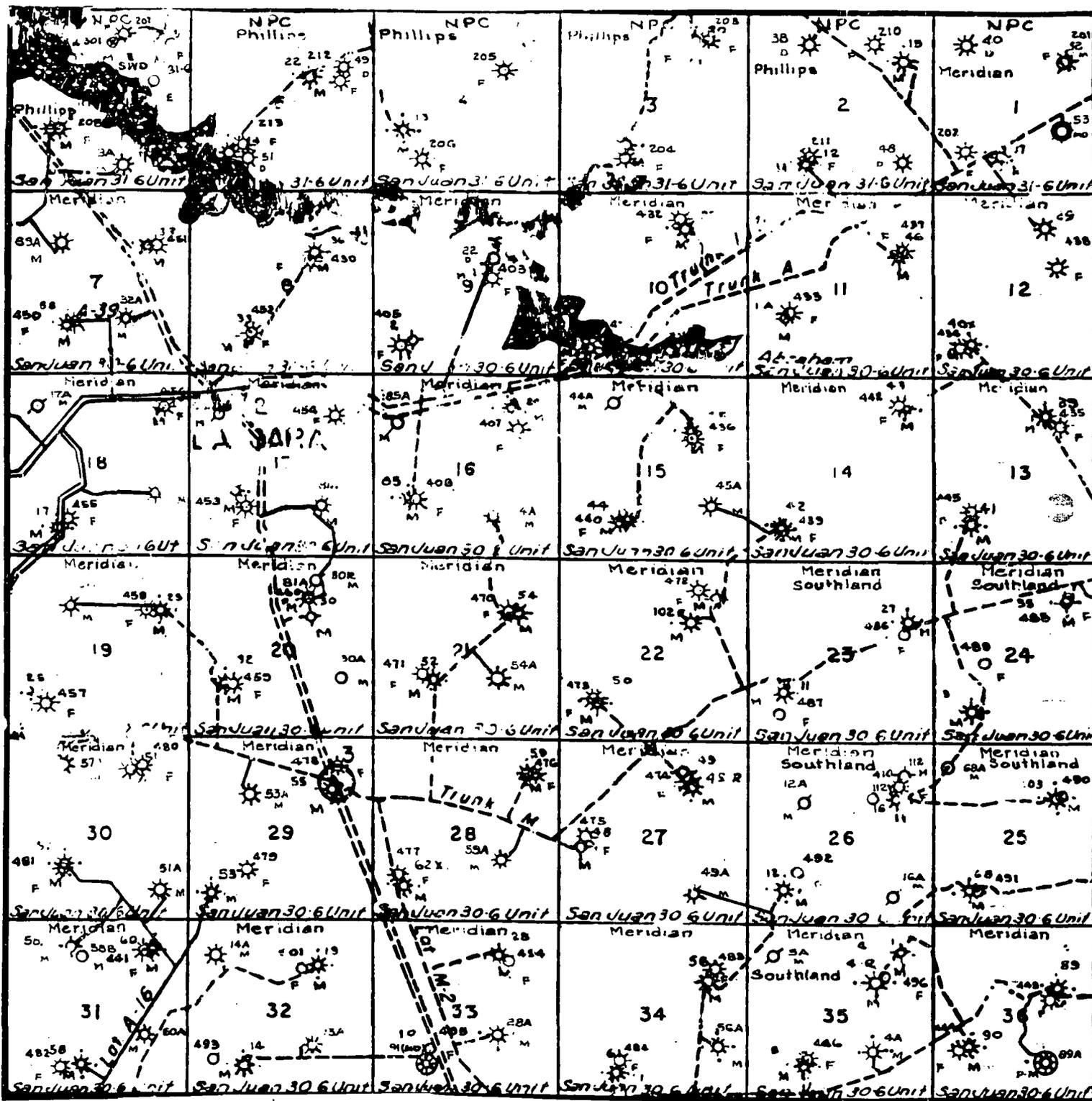
**APD MAP #1**

**FEE  
LANDS**

**EXISTING  
R-O-W**

**S.J. 30-6  
#39A**

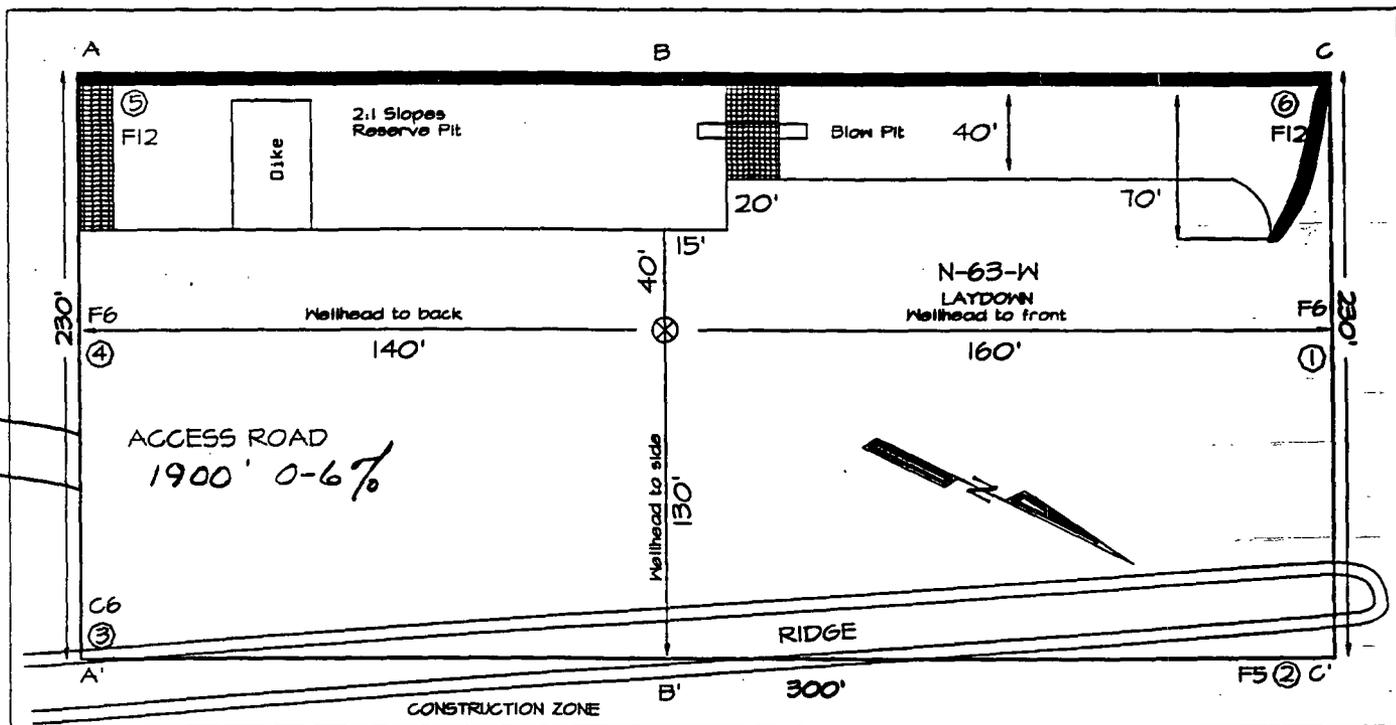




MERIDIAN OIL INC.  
 Pipeline Map  
 T-30-N, R-06-W  
 San Juan County, New Mexico  
 San Juan 30-6 Unit #39A  
 Map 1A

**PLAT #1**

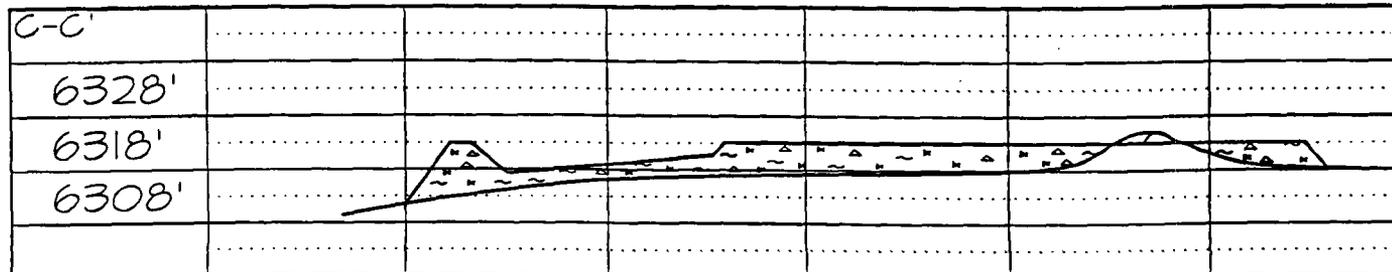
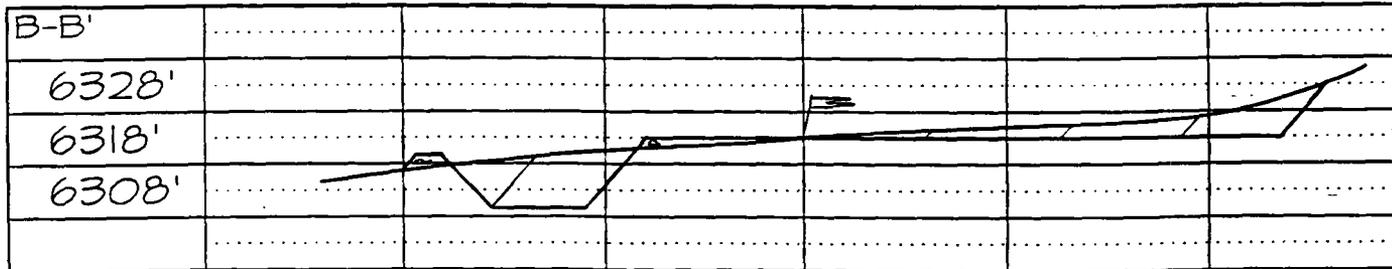
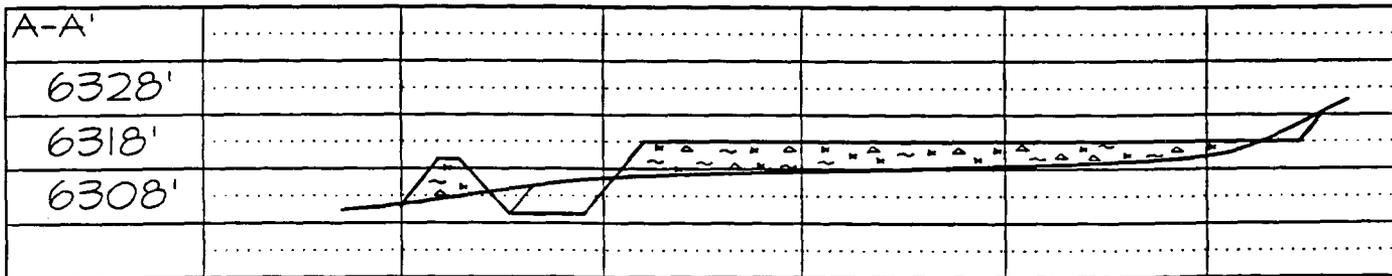
**BURLINGTON RESOURCES OIL & GAS COMPANY  
 SAN JUAN 30-6 UNIT #39A, 1390' FSL & 760' FEL  
 SECTION 13, T30N, R6W, NMPM, RIO ARriba COUNTY, NEW MEXICO  
 GROUND ELEVATION: 6318' DATE: JULY 10, 1997**



230' x 300'

(330' x 400') = 3.03 ACRES

Reserve Pit Dike: to be 8' above Deep side (overflow - 3' wide and 1' above shallow side).  
 Blow Pit: overflow pipe halfway between top and bottom and to extend over plastic liner and into blow



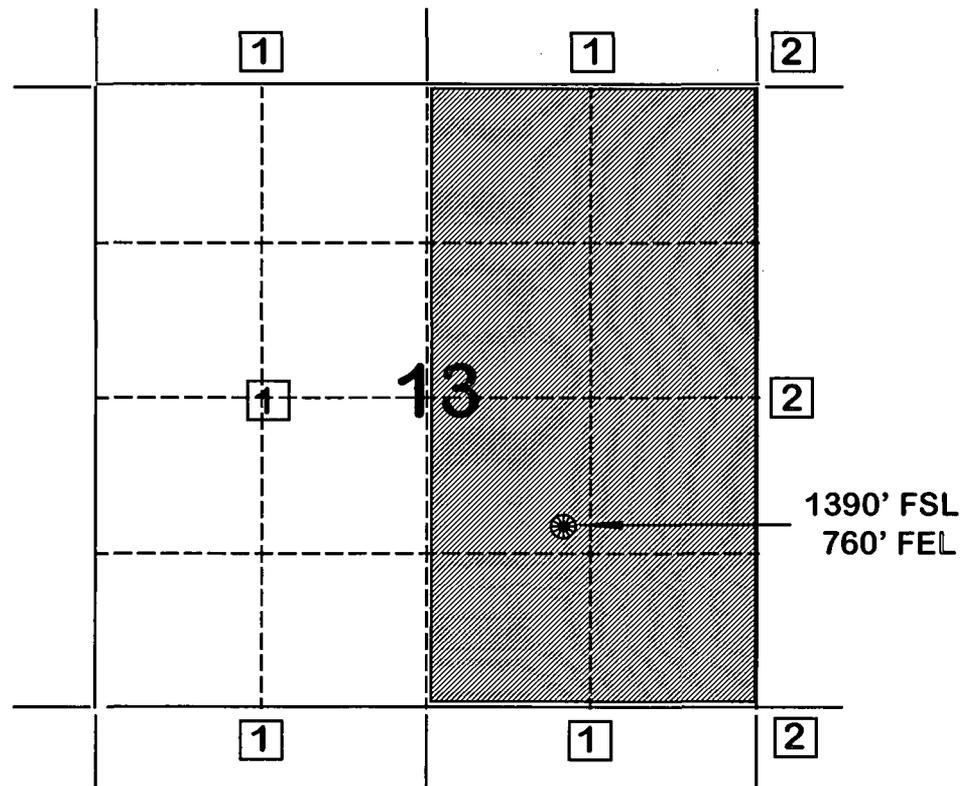
Note: Contractor should call One-Call for location of any marked or unmarked buried pipelines or c on well pad and/or access road at least two (2) working days prior to construction

**BURLINGTON RESOURCES OIL AND GAS COMPANY**

**San Juan 30-6 Unit #39A  
OFFSET OPERATOR \ OWNER PLAT  
Nonstandard Location**

**Mesaverde Formation Well**

**Township 30 North, Range 6 West**



- 1) Burlington Resources Oil and Gas Company
- 2) Phillips Petroleum Company  
5525 Hwy 64 NBU 3004  
Farmington, NM 87401

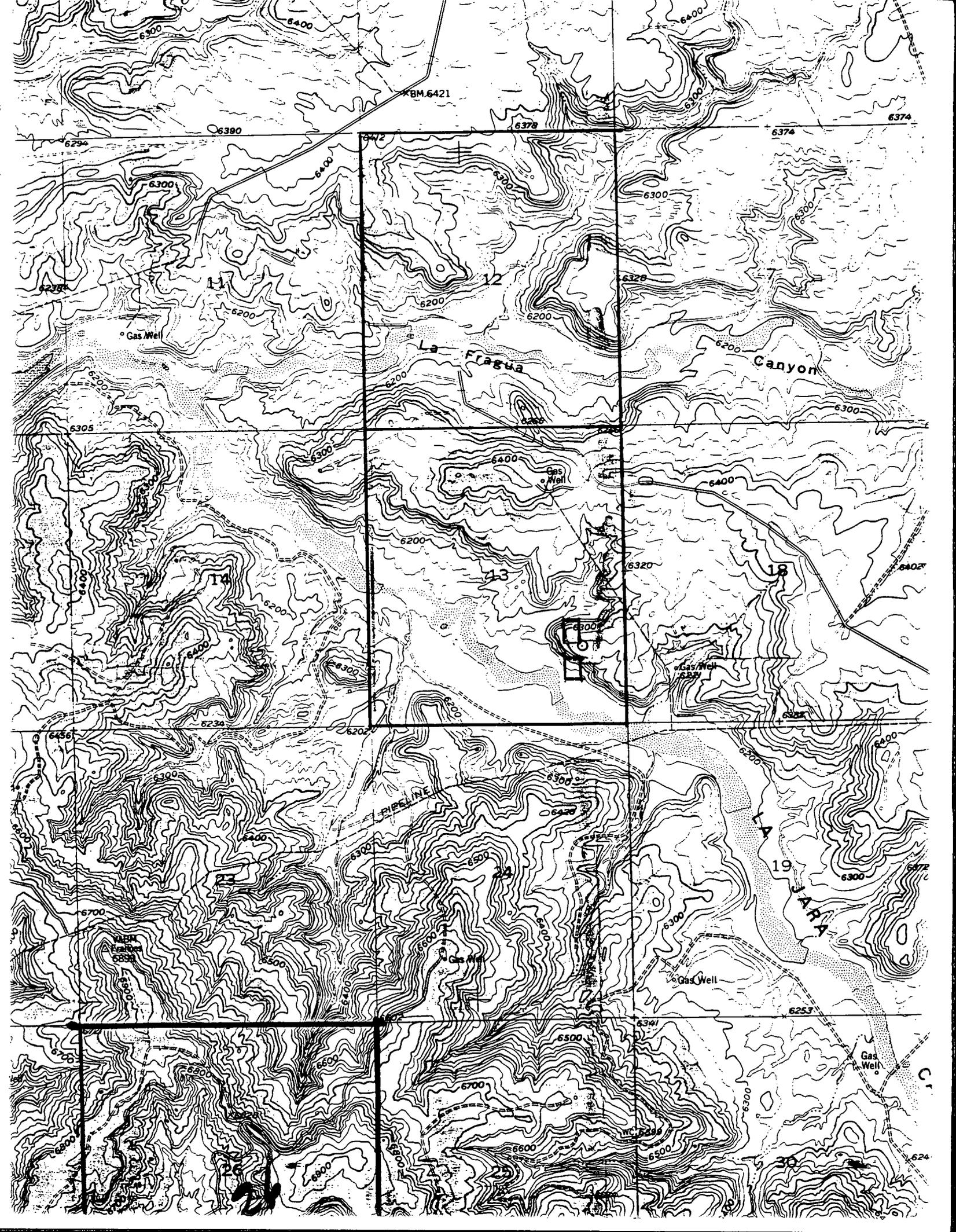
Re: San Juan 30-6 Unit #39A  
1390'FSL, 760'FEL Section 13, T-30-N, R-6-W, Rio Arriba County, New Mexico  
API # 30-039-(not yet assigned)

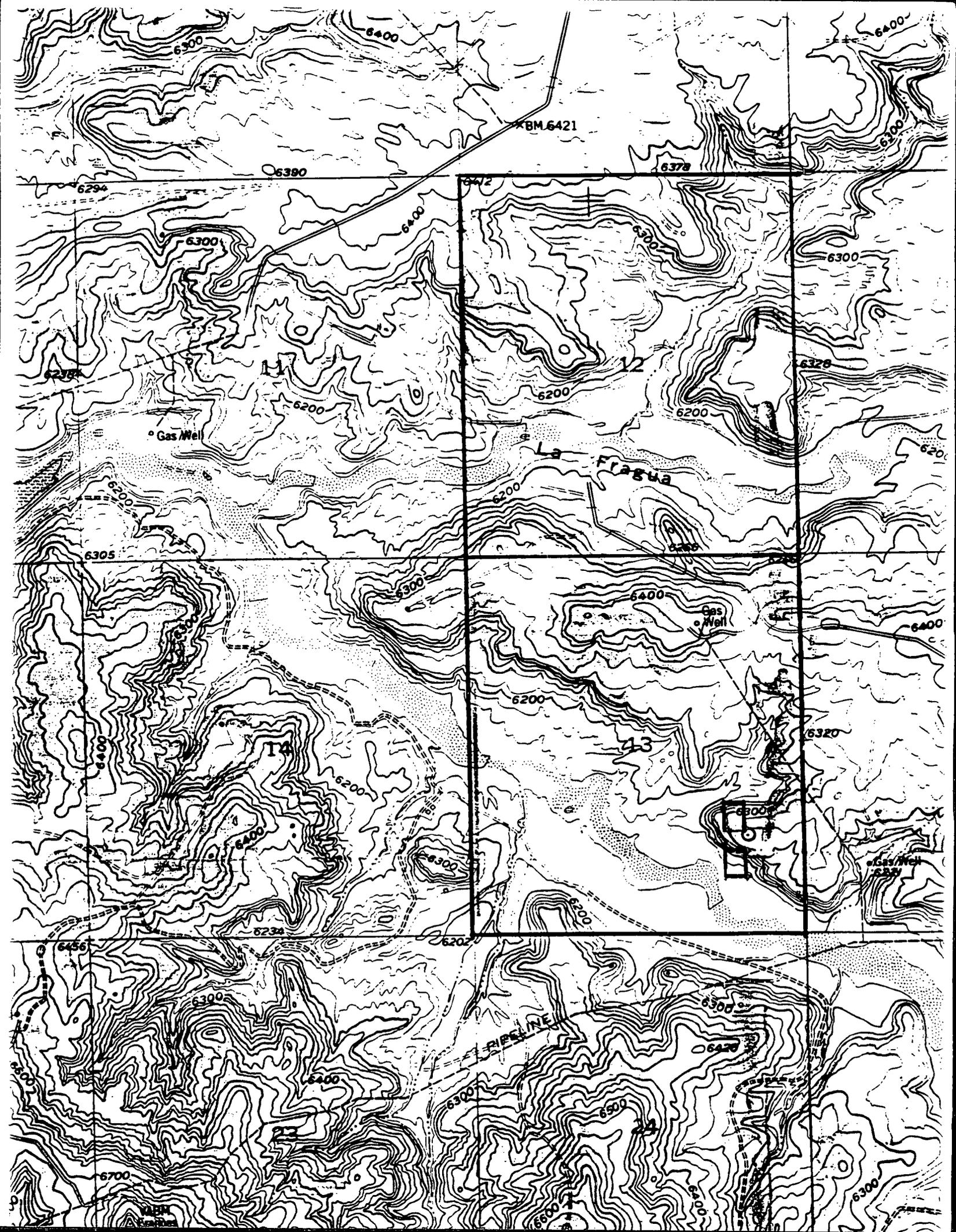
I hereby certify that the following offset operators/owners have been mailed notification of our application for non-standard location to drill the referenced well.

Phillips Petroleum Company  
5525 Highway 64, NBU 3004  
Farmington, NM 87401

A handwritten signature in cursive script, reading "Peggy Bradfield".

Peggy Bradfield  
Regulatory/Compliance Administrator





Sec : 13 Twp : 30N Rng : 06W Section Type : NORMAL

L 40.00  Fee owned U A	K 40.00  Fee owned U	J 40.00  Federal owned U	3 16.94  Federal owned U
M 40.00  Fee owned U A	N 40.00  Federal owned U	O 40.00  Federal owned U	4 16.96  Federal owned U

PF01 HELP    PF02    PF03 EXIT    PF04 GoTo    PF05    PF06  
PF07 BKWD   PF08 FWD    PF09 PRINT   PF10 SDIV    PF11    PF12

111  
56.94  
56.96  
113.90  
113.86  
227.76

Sec : 13 Twp : 30N Rng : 06W Section Type : NORMAL

D 40.00  Federal owned U	C 40.00  Federal owned U	B 40.00  Federal owned U A	1 16.92  Federal owned U
E 40.00  Federal owned U	F 40.00  Federal owned U	G 40.00  Federal owned U A	2 16.94  Federal owned U

PF01 HELP    PF02    PF03 EXIT    PF04 GoTo    PF05    PF06  
PF07 BKWD   PF08 FWD    PF09 PRINT   PF10 SDIV   PF11    PF12

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113.86