

NEW MEXICO ENERGY MINERALS & NATURAL RESOURCES DEPARTMENT

October 8, 1997

Burlington Resources Oil & Gas Company P.O. Box 4289 Farmington, New Mexico 87499-4289 Attention: Peggy Bradfield

Administrative Order NSL-3881

Dear Ms. Bradfield:

Reference is made to your application dated September 12, 1997 for an unorthodox Blanco-Mesaverde "infill" gas well location on an existing standard 320-acre, more or less, gas spacing and proration unit ("GPU") for said Blanco-Mesaverde Pool, comprising the E/2 equivalent of Section 11, Township 30 North, Range 6 West, NMPM, Rio Arriba County, New Mexico. Said GPU is currently dedicated to the San Juan "30-6" Unit Well No. 46 (API No. 30-039-07889), located at a standard gas well location 1750 feet from the North line and 990 feet from the East line (Unit H) of said Section 11.

By the authority granted me under the provisions of Rule 2(d) of the "General Rules for the Prorated Gas Pools of New Mexico/Special Rules and Regulations for the Blanco-Mesaverde Pool", as promulgated by Division Order No. R-8170, as amended, the following described well to be drilled at an unorthodox "infill" gas well location in said Section 11 is hereby approved:

> San Juan "30-6" Unit Well No. 46-A 1450' FSL - 670' FEL (Unit I)

I-11-30N-6W

Further, both the San Juan "30-6" Unit Well Nos. 46 and 46-A are to be dedicated to the subject GPU, further said wells and GPU will be subject to all existing rules, regulations, policies, and procedures applicable to prorated gas pools in Northwest New Mexico.

Sincerely,

William J. Le Director

WJL/MES/kv

Oil Conservation Division - Aztec cc:

U. S. Bureau of Land Management - Farmington

OLL GON. DIV.

BURLINGTON RESOURCES

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 DEGELYCD N sep 1 3 257

0]L CON. DIV.

Re:

San Juan 30-6 Unit #46A

1450'FSL, 670'FEL Section 11, 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, LaFragua Wash, the presence of archaeology, and the fact that an access road for a standard location would be very long across fee lands, thereby creating excess surface disturbance.

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.

Lagry Stadhied

Peggy Bradfield

Regulatory/Compliance Administrator

xc:

Bureau of Land Management NMOCD - Aztec District Office

WAIVER

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

1a.	Type of Work DRILL	5. Lease Number NM-06283 Unit Reporting Number 8910005380
1b.	Type of Well GAS	6. If Indian, All. or Tribe
2.	Operator	7. Unit Agreement Name
	RESOURCES Oil & Gas Company	San Juan 30-6 Unit
3.	Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499	8. Farm or Lease Name San Juan 30-6 Unit 9. Well Number
	(505) 326-9700	46A
4.	Location of Well 1450'FSL, 670'FEL	10. Field, Pool, Wildcat Blanco Mesa Verde 11. Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36 ^O 49.5, Longitude 107 ^O 25.5	Sec 11,T-30-N,R-6-W API # 30-039-
14.	Distance in Miles from Nearest Town 8 miles to Gobernador	12. County 13. State Rio Arriba NM
15.	Distance from Proposed Location to Nearest Property or Le	ease Line
16.	Acres in Lease	17. Acres Assigned to Well 320 E/2
18.	Distance from Proposed Location to Nearest Well, Drlg, Co	empl, or Applied for on this Lease
19.	Proposed Depth 5745'	20. Rotary or Cable Tools Rotary
21.	Elevations (DF, FT, GR, Etc.) 6163'GR	22. Approx. Date Work will Start
23.	Proposed Casing and Cementing Program See Operations Plan attached	
24.	Authorized by: May have huld Regulatory/Compliance Adminis	_
PERM	IIT NO. APPRO	OVAL DATE
APPF	OVED BYTITLE	DATE

Oistrict I PO Box 1980. Hobbs, NM 88241-1980

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C Revised February 21. Instructions on

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

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Submit to Appropriate District Of State Lease - 4 Co. Fee Lease - 3 Co

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

AMENDED REPO

Certificate Numb

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

			WELL	LOCAT	TION AND A	ACREAGE D	EDICAT	ION PL	_AT	
'API Number 30-045				^{'Pool C}	ode	Blanco/	Mesave	'Pool Nam	e	
'Property 7469	Code		. 1	-		Property Name JUAN 30-6 UNIT				*Well Number 46A
	'OGRID No.				Elevation 6163					
14538			DONLII					·IF AIN I		0103
UL or lot no.	Section	Township	Range	Lot Idn	10 Surface	Location	ine Fee	t from the	East/West line	
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UL or lot no. (Section	11 BC	ottom Range i	Hole Lot Ion	Location	If Differe		m Surf		County
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E 320									<u></u>	
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. 00 . 0825				11	NMSF	-080714	5280.00	Signatur Pegg Printed Regul Title Date 18 SURV I hereby cer was plotted or under My	e y Bradfi	eld TIFICATI Contains above on the contains and the con
						-05283 CT 39	670'	Date of		197 MEX
-	5	1	6		NMSF 7	-080714 8		684	500	

5268.12

OPERATIONS PLAN

Well Name: San Juan 30-6 Unit #46A

Location: 1450'FSL, 670'FEL Section 11, T-30-N, R-6-W

Rio Arriba County, New Mexico

Latitude 36° 49.5, Longitude 107° 25.5

Formation: Blanco Mesa Verde

Elevation: 6163'GL

Formation Tops:	Top	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	22281	aquifer
Ojo Alamo	2228'	2615'	aquifer
Fruitland	2615'	2970'	
Pictured Cliffs	2970'	3212'	gas
Lewis	3212'	3835'	gas
Intermediate TD	3312'		
Mesa Verde	3835′	4220'	gas
Chacra	4220'	5028′	gas
Massive Cliff House	5028'	5100′	gas
Menefee	5100'	5345'	gas
Massive Point Lookout	5345'		gas
Total Depth	5745'		

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>	Fluid Loss
0- 200'	Spud	8.4-9.0	40-50	no control
200-3312'	LSND	8.4-9.0	30-60	no control
3312-5745'	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>	Wt.	<u>Grade</u>
12 1/4"	0' - 200'	9 5/8"	32.3#	H-40
8 3/4"	0' - 3312'	7"	20.0#	J-55
6 1/4"	3312' - 5745'	4 1/2"	10.5#	J-55

Tubing Program:

0' - 5745' 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.

<u>Cementing:</u>

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/264 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 (871 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 2615'. Two turbolating centralizers at the base of the Ojo Alamo at 2615'. 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 154 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 (465 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

Date

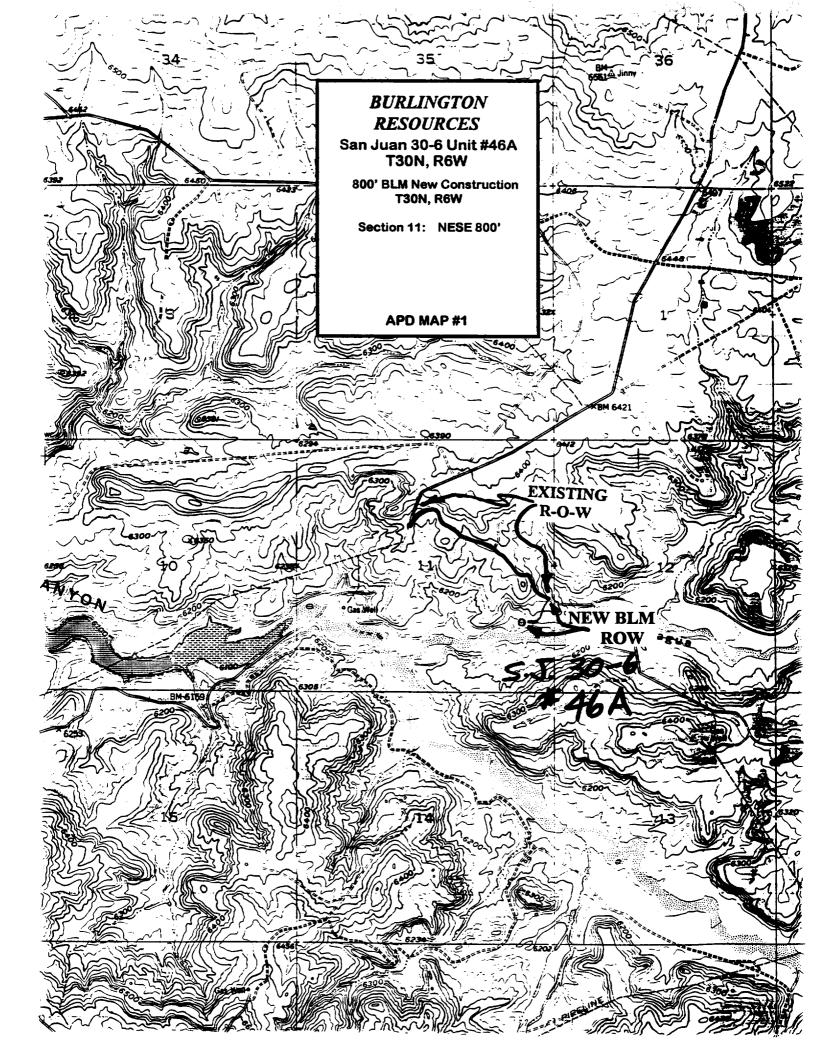


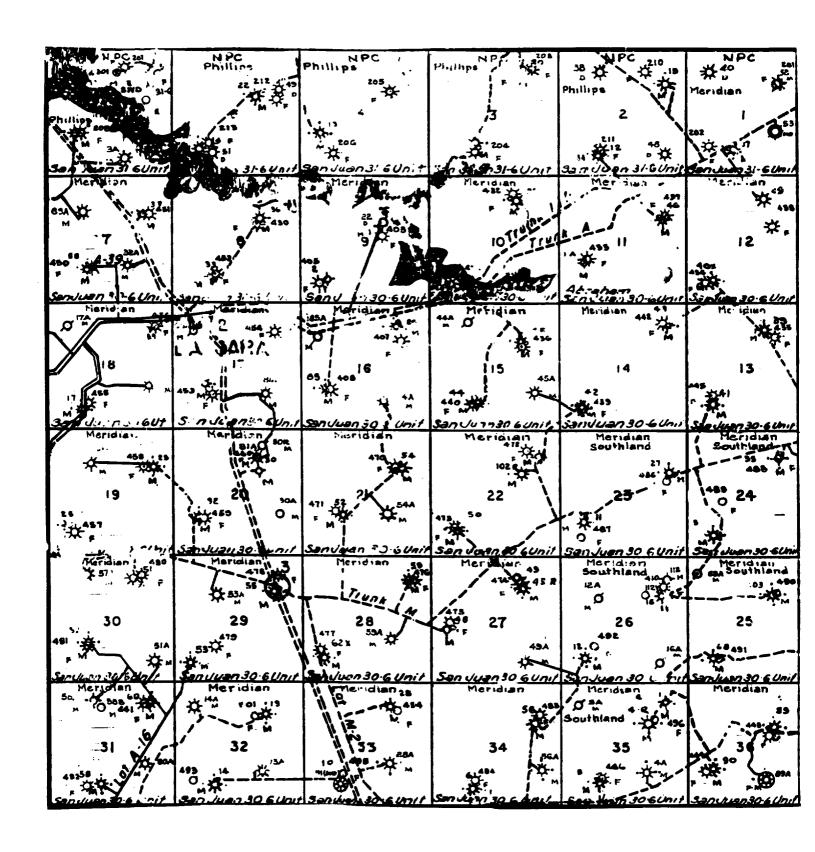
San Juan 30-6 Unit #46A Multi-Point Surface Use Plan

- 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 800' 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 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 Date





MERIDIAN OIL INC.
Pipeline Map
T-30-N, R-06-W
San Juan County, New Mexico

San Juan 30-6 Unit 46A Map 1A

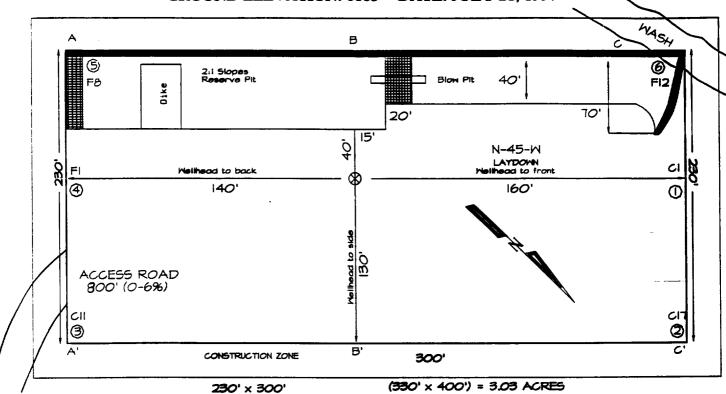
PLAT #1

BURLINGTON RESOURCES OIL & GAS COMPANY

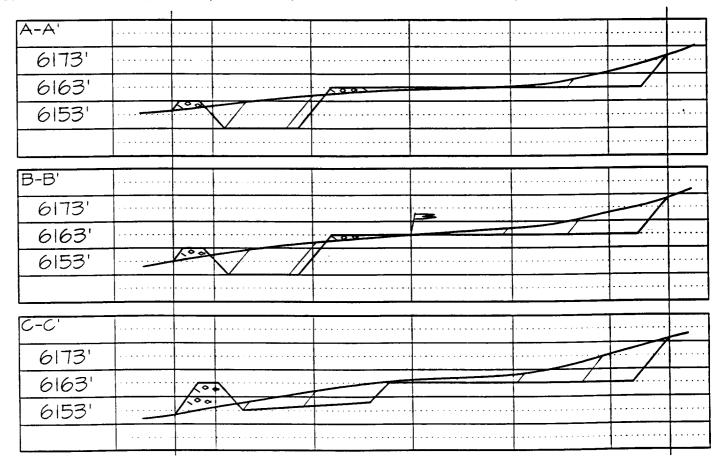
SAN JUAN UNIT #46A, 1450' FSL & 670' FEL

SECTION 11, T30N, R6W, NMPM, RIO ARRIBA COUNTY, NEW MEXICO

GROUND ELEVATION: 6163' DATE: JULY 21, 1997



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 p



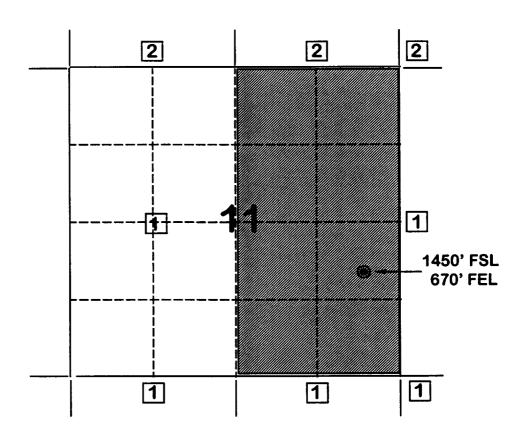
Note: Contractor should call One-Call for location of any marked or unmarked buried pipelines or ca on well pad and/or access road at least two (2) working days prior to construction

BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 30-6 Unit #46A 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 #46A

1450'FSL, 670'FEL Section 11, 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

Peggy Bradfield

Regulatory/Compliance Administrator

Jaggy Strapued

