UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

		ARTMENT OF THE INTERIOR AU OF LAND MANAGEMEN	· · · · · · · · · · · · · · · · · · ·
	APPLICATION FOR P	ERMIT TO DRILL, DEEPEN,	OR PLUG BACK
1a.	Type of Work DRILL -		5. Lease Number SF-079521A Unit Reporting Number 89100009490
1b.	Type of Well GAS —	•	6. If Indian, All. or Tribe
2.	Operator BURLINGTON RESOURCES Oil & Ga	as Company	7. Unit Agreement Name San Juan 28-5 Unit
3.	Address & Phone No. of Operator PO Box 4289, Farmington, (505) 326-9700	SEP 2000 N 1 87499	San Juan 28-5 Unit Well Number 50B
4.	Location of Well 1530' FSL, 625' FEL	23	10. Field, Pool, Wildcat Blanco Mesaverde 11. Sec., Twn, Rge, Mer. (NMPM)
7	Latitude 36 ^o 37.7, Longitu	de 107º 21.5	T Sec. 28, T-28-N, R-5 API # 30-039-
14.	Distance in Miles from Nearest Town 5 miles from Gobernador		12. County 13. State Rio Arriba NM
15.	Distance from Proposed Location to	Nearest Property or Lease Line	e
16.	625' Acres in Lease		17. Acres Assigned to Well 320 S/2
18.	Distance from Proposed Location to	Nearest Well, Drig, Compl, or	Applied for on this Lease
19.	Proposed Depthis action is subject I	uant to 43 CFR 3165.3	20. Rotary or Cable Tools Rotary
21.	Elevations (DF, FT, GR, Etc.) 6732' ~GR	DRIL	22. Approx. Date Work will Start LING OPERATIONS AUTHORIZED A JECT TO COMPLIANCE WITH ATTA
23.	Proposed Casing and Cementing Pr See Operations Plan atta	ogram "GE	NERAL REQUIREMENTS"
24.	Authorized by: Regulatory/Con	npliance Administrator	12 · 7 - 99 Date
PER	MIT NO.	APPROVAL DA	,
	ROVED BY	TITLE	DATE 9/28/0

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.

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 874**10**

S/320

District IV PO Box 2088, Santa Fe, NM 87504-2088 State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office

OIL CONSERVATION DIVISION
PO Box 2088 13 51 1:40
Santa Fe, NM 87504-2088

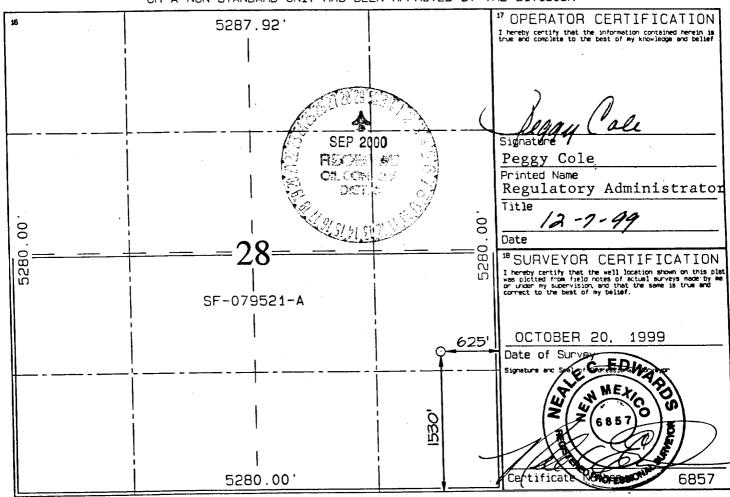
State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-039-26576		72	319		Blanco Mesaverde					
'Property Code				Property Name			• WE	Well Number		
7460				SAN JUAN 28-5 UNIT				50B		
'OGRID No.		*Operator Name					• 6	levation		
14538 B			BURLI	NGTON I	ON RESOURCES OIL & GAS COMPANY				6732 '	
¹⁰ Surface Location										
UL or lot no.	Sect i on	Township	Fiange	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
I	28	28N	5W		1530	SOUTH	625	EAST	RIO ARRIBA	
		11 B	ottom	Hole L	ocation	If Different	From Surf	ace		
UL or lot no.	Section	Township	Flange	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
12 Dedicated Acres	1	13 Joint or Inf	ill 14 Cons	olidation 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



BURLINGTON RESOURCES OIL & GAS COMPANY SAN JUAN 28-5 UNIT #50B 1530' FSL & 625' FEL, SECTION 28, T28N, R5W, N.M.P.M. RIO ARRIBA COUNTY, NEW MEXICO APD MAP # 300' NEW FEE CONSTRUCTION NE/SE SECTION 28, T28N, R5W. Gas Well EXISTING R.O.M. <u>PIPE LEVE</u> NEW FEE R.O.M.

OPERATIONS PLAN

Well Name: San Juan 28-5 Unit #50B

Surface Location: 1530' FSL, 625' FEL, Section 28, T-28-N, R-5-W

Rio Arriba County, New Mexico

Latitude 36° 37.7, Longitude 107° 21.5

Formation: Blanco Mesa Verde

Elevation: 6732' GL

Formation Tops:	Top	Bottom	Contents
Surface	San Jose	2894 ′	aquifer
Ojo Alamo	2894'	3069 ′	aquifer
Kirtland	3069 ′	3174'	gas
Fruitland	3174'	3584'	gas
Pictured Cliffs	35 84'	3679'	gas
Lewis	3679 '	4184'	gas
Intermediate TD	377 9'		
Mesa Verd e	4184'	4534'	gas
Chacra	453 4′	5319 ′	gas
Massive Cliff House	5319 ′	5419'	gas
Menef ee	5419 '	5744'	gas
Point Lookout	5744'		gas
Total Depth	6144'		

Logging Program:

Cased hole Gamma Ray, Cement bond - surface to TD Mud Logs/Coring/DST - none

Mud Program:

Interval- MD	Type	Weight	Vis.	<u>Fluid Loss</u>
0- 200!	Spud	8.4 - 9.0	40-50	no control
200- 3779 '	LSND	8.4-9.0	30-60	no control
3779- 6144'	Air/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):

	Measured			
Hole Size	e Depth	Csg Si ze	<u>Weight</u>	Grade
12 1/4"	0' - 200'	9 5/8"	32.3#	H-40
8 3/4"	0' - 3779'	7 "	20.0#	J-55
6 1/4"	3679' - 6144'	4 1/2"	10.5#	J-55

Tubing Program: 0'-6144' 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 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 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/338 sx Class "B" w/3% sodium metasilicate, 7# gilsonite/sx and 0.5# flocele/sx. Tail w/90 sx 50/50 Class "B" Poz w/2% gel, 2% calcium chloride, 7# gilsonite/sx and 0.5# flocele/sx (1109 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 to determine TOC. Test casing to 1500 psi for 30 minutes.

7" intermediate casing alternative two stage: Stage collar at 3074'. First stage: cement with 137 sx Class "B" 50/50 poz w/2% gel, 7 pps Gilsonite, 1% calcium chloride, 0.5 pps Cellophane. Second stage: 316 sx Class "B" with 3% sodium metasilicate, 1/2 pps Cellophane, 7 pps Gilsonite (1109 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 3069'. Two turbolating centralizers at the base of the Ojo Alamo at 3069'. 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. Pump 281 sx 50/50 Class "B" Poz w/1/4# flocele/sx, 2% qel, 0.1% retardant, 5# gilsonite/sx and 0.4% fluid loss additive (357 cu.ft., 40% excess to circulate liner top). WOC a minimum of 18 hrs prior to completing.

Cement nose quide 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.

Special Drilling Operations (Air/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 300 psi Pictured Cliffs 600 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 south half of Section 28 is dedicated to the Mesa Verde.
- This gas is dedicated.

12/7/1999