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

		LL, DEEPEN, OR PLUG BACK
a.	Type of Work DRILL	5. Lease Number SF-080672 Unit Reporting Number 891001054A
b.	Type of Well GAS	6. If Indian, All. or Tribe
•	Operator BURLINGTON RESOURCES Oil & Gas Company	San Juan 27-4 Unit Unit
•	Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	9. Farm or Lease Name San Juan 27-4 Unit 9. Well Number 109B
	Location of Well 2570' FSL, 2460' FEL Latitude 36° 33.5, Longitude 107° 13.2	10. Field, Pool, Wildcat Blanco Mesaverde 11. Sec., Twn, Rge, Mer. (NMPM) J Sec. 23, T-27-N, R-4-W API # 30-039- 26615
4.	Distance in Miles from Nearest Town 20 miles from Gobernador	12. County 13. State Rio Arriba NM
5.	Distance from Proposed Location to Nearest Propert 2460'	ty or Lease Line
6.	Acres in Lease	17. Acres Assigned to Well 320 E/2
В.	Distance from Proposed Location to Nearest Well, D	kend bad
9.	Proposed Depth procedured and appear parameter to the AS CF	ी ात अध्य 3 20. Rotary of Cable Tools
1.	Elevations (DF, FT, GR, Etc.) 6958' GR	22. Approx. Date Work will Start
3.	Proposed Casing and Cementing Program See Operations Plan attached	1
24.	Authorized by: Regulatory/Compliance Sup	
PERM	AIT NO.	APPROVAL DATE 12/13/01

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.

Form C-102 State of New Mexico District I PO Box 1980, Hobbs, NM 88241-1980 Revised February 21, 1994 Energy, Minerals & Natural Resources Department Instructions on back Submit to Appropriate District Office District II PO Drawer DD. Artesia. NM 88211-0719 State Lease - 4 Copies OT CONSERVATION DIVISION Fee Lease - 3 Copies PO Box 2088_{2mp pcc} -6 PM 2: 29 Santa Fe, NM 87504-2088 District III 1000 Rio Brazos Rd., Aztec, NM 87410 | AMENDED REPORT District IV PO Box 2088, Santa Fe, NM 87504-2088 WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Code 'API Number 30-039- 2661 72319 Blanco Mesaverde Well Number Property Name Property Code SAN JUAN 27-4 UNIT 109B 7452 *Elevation *Operator Name 'OGRID No. 6958 BURLINGTON RESOURCES OIL & GAS COMPANY 14538 ¹⁰ Surface Location Feet from the North/South line Feet from the East/West line County Lot Ido Section Township Range UL or lot no. RIO SOUTH 2460 EAST 2570 23 4W 27N J ARRIBA 11 Bottom Hole Location If Different From Surface North/South line Feet from the County East/West line Lot Idn Feet from the Section UL or lot no. ¹⁵ Order Na. 13 Joint or Infill 14 Consolidation Code 12 Dedicated Acres MV - E/320NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION OPERATOR CERTIFICATION 5278.02 hereby certify that the information contained herein is rue and complete to the best of my knowledge and belief Reissued Well was originally shown as the San Juan 27-4 Unit #109A DISTUS Signature Peggy Cole Printed Name Regulatory Supervisor Title 80. LAT: 36 *33.5 N LONG: 107 *13.2 W Date 18 SURVEYOR CERTIFICATION 2460' 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. OCTOBER 4, 2000

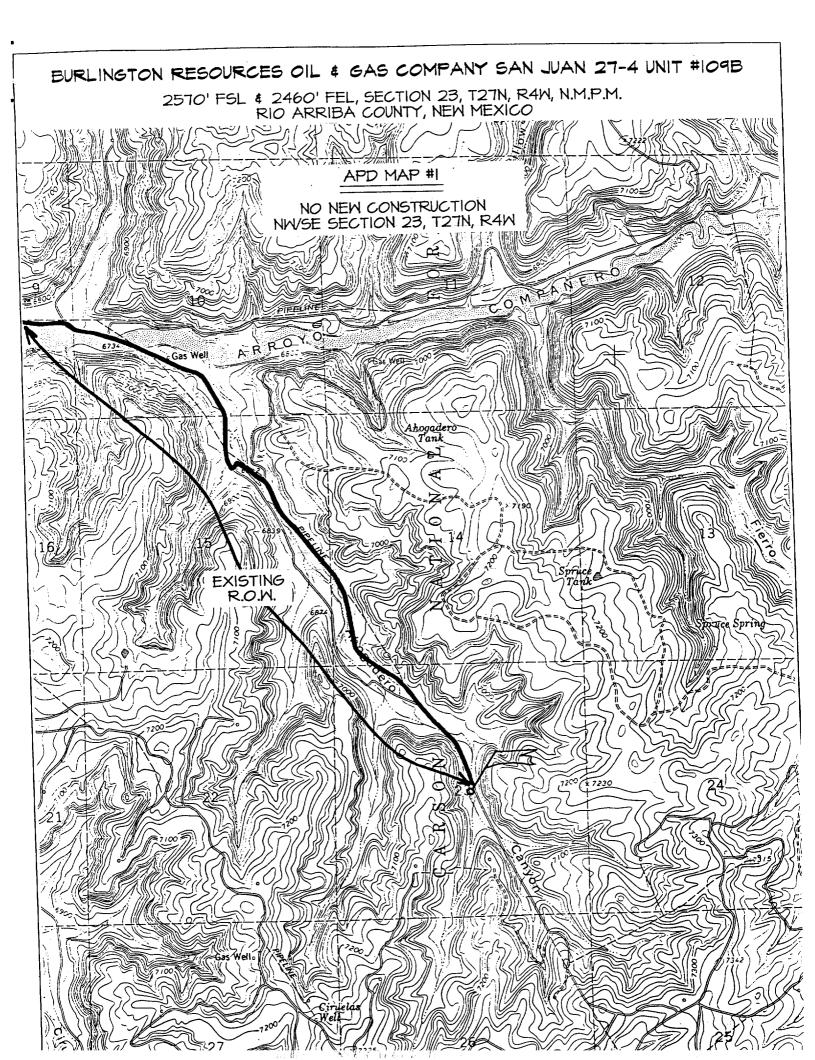
2570

5269.44

MEX

6857

Certificate Number 1550



OPERATIONS PLAN

Well Name: San Juan 27-4 Unit #109B

Location: 2570'FSL, 2460'FEL, Section 23, T-27-N, R-4-W

Rio Arriba County, New Mexico

Latitude 36° 33.5, Longitude 107° 13.2

Formation: Blanco Mesa Verde

Elevation: 6958'GL

Formation Tops:	Top	Bottom	<u>Contents</u>
Surface	San Jose	3241 ′	
Ojo Alamo	3241 ′	3402'	aquifer
Kirtland	3402 '	3490'	-
Fruitland	3490'	3811'	gas
Pictured Cliffs	3811'	3911'	gas
Lewis	3911 ′	4335 ′	gas
Intermediate TD	4161'		-
Huerfanito Bentonite	4335 ′	4789 '	gas
Chacra	4789 '	5590 '	gas
Massive Cliff House	5590 ′	5668 ′	gas
Menefee	5668'	5970 '	gas
Point Lookout	5970 '		gas
Total Depth	6370'		

Logging Program:

Mud Logs/Coring/DST -Mud logs - none Coring - none

DST - none

Cased hole - Gamma Ray, Cement bond - surface to TD

Mud Program:

Interval- MD	Type	Weight	Vis.	Flu	id Loss
0- 200'	Spud	8.4-9.0	40-50	no	control
200- 4161'	LSND	8.4-9.0	30-60	no	control
4161- 6370'	Air/Mist/N2*	n/a		n/a	n/a

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

*Nitrogen might be used in conjunction with or instead of air to prevent a down hole fire.

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

Measured			
Hole Size Depth	Csg Size	Weight	<u>Grade</u>
$\frac{12 \ 1/4"}{}$ 0' - 200'	9 5/8"	32.3#	H - 40
8 3/4" 0' - 4000'	7 "	20.0#	J-55
8 3/4" 4000' - 4161'	7"	23.0#	N-80
6 1/4" 4061' - 6370'	4 1/2"	10.5#	J-55

Tubing Program: 0'-6370' 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 "H" 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/440 sx 50/50 Class "G"/Trinity Light w/2.5% sodium metasilicate, 2% calcium chloride, 10# gilsonite/sx and 0.5# flocele/sx. Tail w/90 sx 50/50 Class "G" Poz w/2% gel, 2% calcium chloride, 5# gilsonite/sx, 0.1% antifoam and 0.25# flocele/sx (1252 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 3390'. First stage: cement with 181 sx Class "G" 50/50 poz w/2% gel, 5 pps Gilsonite, 2% calcium chloride, 0.25 pps Flocele, 0.1% antifoam. Second stage: 395 sx Class "G"/Trinity Light with 2.5% sodium metasilicate, 2% calcium chloride, 1/2 pps Flocele, 10 pps Gilsonite (1252 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 3402'. Two turbolating centralizers at the base of the Ojo Alamo at 3402'. 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 232 sx 50/50 Class "G" Poz w/1/4# flocele/sx, 4.5% gel, 0.1% retardant, 5# gilsonite/sx, 0.25% fluid loss additive (332 cu.ft., 40% excess to circulate liner top). WOC a minimum of 18 hrs prior to completing.