UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

1a.	Type of Work DRILL		5. Lease Number
	DKIDD		SF-078511 Unit Reporting Number
1b.	Type of Well GAS		6. If Indian, All. or Tribe
2.	Operator BURLINGTON RESOURCES Oil &	Gas Company	7. Unit Agreement Name
3. /	Address & Phone No. of Operator PO Box 4289, Farmingto:	n, NM 87499	8. Farm or Lease Name Quinn
	(505) 326-9700		9. Well Number #4B
4.	Location of Well 735'FNL, 2330'FEL		10. Field, Pool, Wildcat Blanco Mesa Verde
	Latitude 36 ⁰ 53.3, Longi	tude 107 ⁰ 42.9	11. Sec., Twn, Rge, Mer. (NMPM) \$\mathcal{B} \text{ Sec. 19, T-31-N, R-8-W} \\ API # 30-045- \(\frac{3}{2}\) \(\frac{1}{2}\) \(\frac{4}{2}\)
14.	Distance in Miles from Nearest Tow 10 mi from Navajo Dam	wn	12. County 13. State San Juan NM
15.	Distance from Proposed Location to 735'	o Nearest Property or Lease Line	3
16.	Acres in Lease		17. Acres Assigned to Well 320 E/2
18.	Distance from Proposed Location to		Applied for on this Lease
19.		च पूर्वतिवास्ताः च 4° 079 3165.3 uant to 43 077 3165.4.	20. Rotary or Cable Tools Rotary
21.	Elevations (DF, FT, GR, Etc.) 6430' GL		22. Approx. Date Work will Start
23.	Proposed Casing and Cementing Proposed Casing and Cementing Proposed Proposed Casing and Cementing Proposed Casing Cas		CARLETTE ET ET LETT LETT LETT TREZER AR SOCIET TO ERTÉN ARCH MALIE ATTACH TELTETAL ALGUER, ZEMTI
24.	Authorized by: Regulatory/Co	(ale ompliance Administrato	1-11-00 Date
PERM	IIT NO.	APPROVAL DA	TE 9/8/00
APPR	OVED BY	TITLE PE	DATE 9/8/60

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 | F.O. Box 1980, Hobbs, N.M. 88241-1980 State of New Mexico

Energy, Minerals & Natural Resources Department

Revised February:
Instructions of Submit to Appropriate District
State Lease - 4 Conference - 3 Cophy

P.O. Drawer DD, Artesia, N.M. 88211-0719

DISTRICT III 1000 Rio Brozos Rd., Aztec, N.M. E7410

OIL CONSERVATION DIVISION

P.O. Box 2088

Sonto Fe, NM 87504-2088

☐ AMENDED REPORT

DISTRICT IV FO Box 2088, Santa Fe, NM 87504-2088

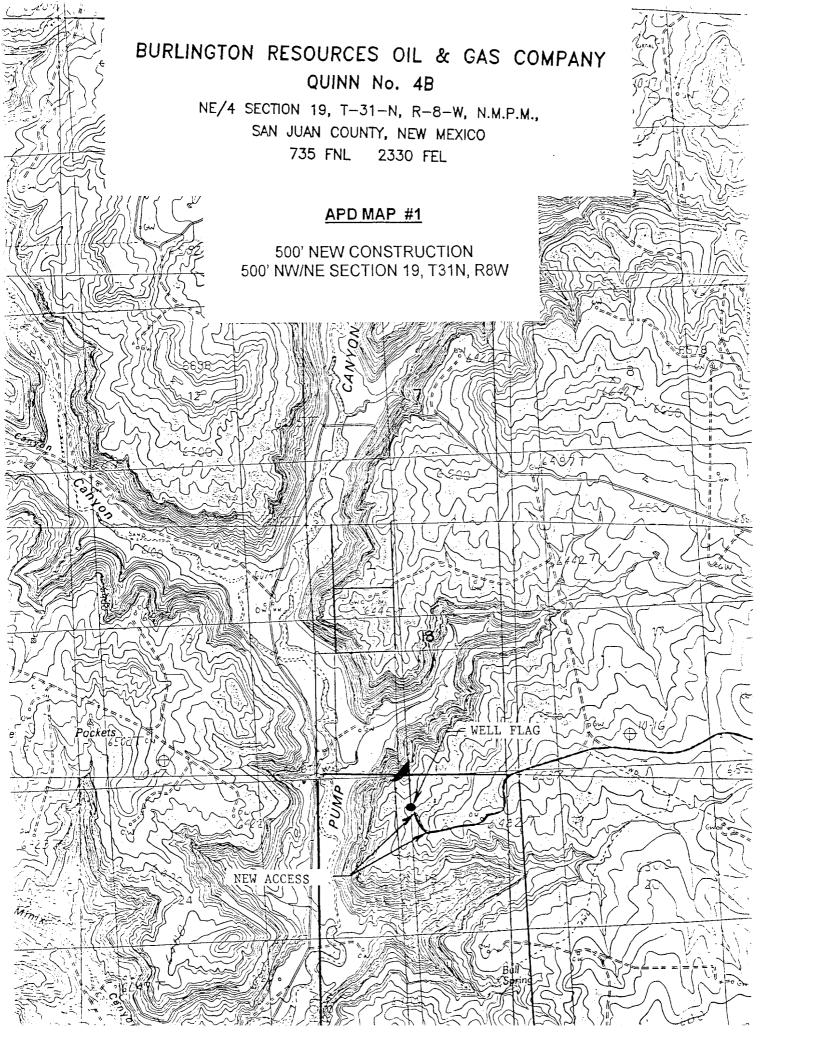
WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	² Pool Code	³ Pool Name		
30-045-30124_	72319	Blanco Mesaverde		
Property Code	Property Name QUINN		* Well Number 4B	
OGRID No.	* 0	perator Name	⁹ Elevation	
14538	BURLINGTON RESC	DURCES OIL & GAS COMFANY	6430'	

¹⁰ Surface Location East/West fine County North/South line Feet from the Lot Idn Feet from the UL or let ne. Section Township Rongs EAST SAN JUAN 2330 · NORTH 735 8-W В 19 31-N Location If Different From Surface 11 Bottom Hcle Ecst/West line County North/South line Feet from the Feet from the Lot Idn Township Ronge UL or lot no. Section 12 Order No. 14 Consolidation Code 13 Joint or Infill 12 Dedicated Acres E/320 I

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

16	FD. E.L.M. BC. W.C. 1954		37-50 W FD. E.L.M.	17 OPERATOR CERTIFICATION
	W.G. 1507	· • • • • • • • • • • • • • • • • • • •	E7.8° BC. 1954	I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
		46	233 0 ⁱ	
		LAT. = 36 53.3' N. LONG. = 107 42.9' W.	0	
		, Co.,		7 1
				Signoture ale
				Peggy Cole
			5232.36,	Regulatory Administrator
	1	19	×	Date
		SF-078511		SURVEYOR CERTIFICATION
			1	was pictted from field notes of actual surveys made by m
			<i>2</i>	or under my supervision, and that the some is true one correct to the best one in the last of the some is true one
				Date of Surep
				Town Commune as
				8894
		<u> </u>	FD. B.I.	



OPERATIONS PLAN

Well Name:

Quinn #4B

Surface Location:

735'FNL, 2330'FEL, Section 19, T-31-N, R-8-W

San Juan County, New Mexico

Latitude 36° 53.3, Longitude 107° 42.9

Formation:

Blanco Mesa Verde

Elevation:

6430'GL

Formation Tops:	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
6 6	7	00501	
Surface	San Jose	2052'	aquifer
Ojo Alamo	2052′	2117′	aquifer
Kirtland	2117′	276 7′	gas
Fruitland	2767 ′	3287'	gas
Pictured Cliffs	3287'	3393'	gas
Lewis	3393 ′	4042'	gas
Intermediate TD	3493′		
Mesa Verde	4042'	4407'	gas
Chacra	4407'	5197′	gas
Massive Cliff House	51 97′	524 2′	gas
Menefe e	52 42′	5562'	gas
Point Lookout	5562'		gas
Total Depth	596 2′		

Logging Program:

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

Mud Program:

<u> Interval- MD</u>	<u>Type</u>	Weight	<u> Vis.</u>	Fluid Loss
0- 200'	Spud	8.4-9.0	40-50	no control
200- 3493'	LSND	8.4-9.0	30-60	no control
3493- 5962'	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

<u>Hol</u>	e Size	<u>Dept</u>	<u>: h</u>	<u>Csq Size</u>	<u>Weight</u>	<u>Grade</u>
12	1/4"	0'-	200'	9 5/8"	32.3#	H-40
8	3/4"	0'-	- 3 493 ′	7"	20.0#	J-55
6	1/4"	3393' -	- 5962'	4 1/2"	10.5#	J-55

Tubing Program: 0'-5962'-- 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 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/318 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 (1051 cu.ft. of slurry, 60% 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 2667'. First stage: cement with 184 sx Class "B" cmt with 7 pps gilsonite, 1/2 pps cellophane, 3% sodium metasilicate. Second stage: 274 sx Class "B" with 3% sodium metasilicate, 1/2 pps Cellophane, 7 pps Gilsonite (1051 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 2117'. Two turbolating centralizers at the base of the Ojo Alamo at 2117'. 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 291 sx 50/50 Class "B" Poz w/1/4# flocele/sx, 2% gel, 0.1% retardant, 5# gilsonite/sx and 0.4% fluid loss additive (369 cu.ft., 40% 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.

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 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 Section 19 is dedicated to the Mesa Verde.
- This gas is dedicated.

Drilling Engineer

Date