UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

a.	Type of Work DRILL	891011207	5. Lease Number SF-078129 Unit Reporting Number	
lb.	Type of Well GAS_	JUL 2001	6. If Indian, All. or Tribe	· ·,
2.	Operator BURLINGTON RESOURCES Oil &	Gas Company	7. Unit Agreement Name	
3.	Address & Phone No. of Operator	292,52,163	8. Farm or Lease Name	
J.	PO Box 4289, Farmingto	on, NM 87499	Pierce	
	20 2011 1211,		9. Well Number	
	(505) 326-9700		#1B	
	CAL-H		10. Field, Pool, Wildcat	
4.	Location of Well		Blanco Mesaverde/Basi	n Dakot
	1480'FNL, 2295'FEL		11. Sec., Twn, Rge, Mer. (NMI	
	Latitude 360 48.9, Long	itude 107º 48.2	ൃ Sec.17, T-30-N,	R-9-W
	Latitude 30 10.37 Long.		API# [*] 30-045- <i>304</i> 33	
<u> </u>	Distance in Miles from Nearest T	OMM	12. County 13.	State
14.	12 miles from Aztec	OWII	San Juan	NM
15. 16.	Distance from Proposed Locatio 1480' Acres in Lease	n to Nearest Property or Leas	17. Acres Assigned to Well	
			320 N/2	
18.	Distance from Proposed Locatio	n to Nearest Well, Drig, Comp	ol, or Applied for on this Lease	-
	500' This was	we be subject to a state of the	20. Rotary or Cable Tools	
19.		of make broton of the coal	3155.3 Botary	
	7580'— See See See	a pesson 3 d (39 3186.4	•	
21.	Elevations (DF, FT, GR, Etc.) 6241' GR		22. Approx. Date Work will	Start
23.	Proposed Casing and Cementing	g Program	project and the state of the T	A DEZIPOR
	See Operations Plan a	ttached		
	`	_	"CEMENAL REQUIREMENTS"	•
	/ /	1		
0.4	Authorized by:	(ale	11-9-00	
24.	Regulatory/	Compliance Supervisor	n Date	
	MIT NO.	APPROVA	L DATE 7/6/0	
	ROVED BY /s/ Lee Otteni	TITLE	DATE	

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.

HOLD C104 FOR NS Lin Dakota

District I PO Box 1980, Hobbs, NM B8241-1980

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

Form C-102 Revised February 21, 1994 Instructions on back

OIL CONSERVATION DIVISION
PO Box 2088200 110100 PO Box 2088

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

Santa Fe, NM 87504-2088

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number 30-045- ろんしょこ	² Pool Code 72319/71599	³Pool Name Blanco Mesaverde/Basin Dal	kota	
'Property Code 7388		Property Name		
'OGRID No.		erator Name RCES OIL & GAS COMPANY	*Elevation 6241 —	

¹⁰ Surface Location

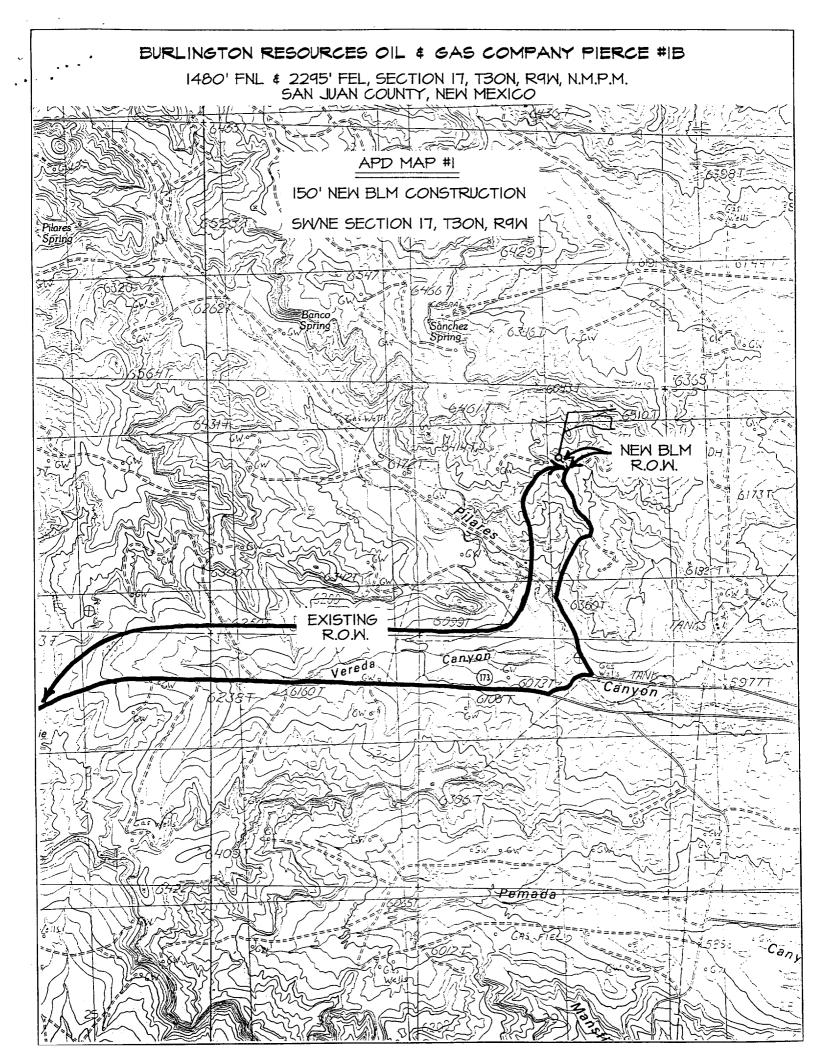
U	or lot no.	Section	Township	Range	Lat Idn	Feet from the	North/South line	Feet from the	East/West line	County
	G	17-	30N	9W		1480	NORTH	2295	EAST	SAN JUAN
L		L	11 🗆	Rottom	Hole i	ocation I	f Different	From Surf	ace	

Bottom Hole Location it uliterent rion surface

UL or lot no. Section	Township	Range Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	13	14.5	e ¹⁵ Order No.				
MV/DK: N/320	¹³ Joint or Infill	¹⁴ Consolidation Cod	e Turder 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

		5000 501	4		—)I	17 OPERATOR CERTIFICATION
16		5223.90				I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
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			1480			
	X	0101112132	7	1	-	
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	(c)	7001				Many Cali
		JUL WON	<u> </u>	<u> </u>		Signature
1	4	JON 3	AT: 36 "48.9"N	2295'		Peggy Cole
	[w]		NG: 107 *48.2 W		1	Printed Name
li li	15	Car Oles.		1		Regulatory Supervisor
	V.C.	JUSANSF-07	78129		- [Title
1	34	628717075030		j	æ	11-9-00
33		LC JO		1	Φ.	Date
Ιω=		 '/			25,	18 SURVEYOR CERTIFICATION
24					52	I hereby certify that the well location shown on this play was plotted from field notes of actual surveys made by many control of the control
C					ш	was plotted from field notes of actual surveys made by m or under my supervision, and that the same is true and connect to the best of my belief.
1		1				to rect to the best of my series.
		1		. [
						SEPTEMBER 27, 2000
		'				Date of Survey
		1		. <u>1</u>		Simpline and Sear of Chifessiche Mauren
			-			7
		· ·				SEPTEMBER 27, 2000 Date of Survey EDWARD Signature and Search Correction NEXTOR
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		5261 F	;o'			Certificate Compassion 6857



OPERATIONS PLAN

Well Name: Pierce #1B

1480'FNL, 2295'FEL, Sec 17, T-30-N, R-9-W Location:

San-Juan Gounty, -NM---

Latitude 36° 48.9, Longitude 107° 48.2

Formation: Blanco Mesa Verde/Basin Dakota

6241' GL Elevation:

Formation Tops:	Top	Bottom	<u>Contents</u>
Surface 1000	San Jose	1668'	
Ojo Alamo	1668'	1793 '	aquifer
Kirtland	1793 ′	2328′	gas
Fruitland	2328'	2968'	gas
Pictured Cliffs	2968'	3138'	gas
Lewis	3138'	3683 '	gas
Intermediate TD	3238'		
Mesa Verde	3683 ′	3998 ′	gas
Chacra	3998 ′	4593 ′	gas
Massive Cliff House	4593'	4778'	gas
Menefee	4778 '	5178 ′	gas
Massive Point Lookout	5178 '	5573 '	gas
Mancos	5573 ′	6485 '	gas
Gallup	6485 ′	7215 '	gas
Greenhorn	7215 '	7268'	gas
Graneros	7268 '	7306 '	gas
Dakota	7306 ′		gas
TD	7580'		

Logging Program:

Open hole - Array induction, TEMP, Neutron-Density - TD to intermediate casing.

Cased hole - GR/CBL - TD to surface

Cores - none

Mud Program:

_	Program.			***	Eluid Loca
	Interval	Type			Fluid Loss
	0- 200'	Spud	 8.4-9.0	40-50	no control
	200- 32381	LSND	8.4-9.0	30-60	no control
	3238- 7580 '	Air/N2	n/a	n/a	n/a
	J_JU /JUU	/			

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

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

Hole Size	Depth Interval	<u>Csg.Size</u> 9 5/8"	Wt. 32.3#	Grade WC-50
8 3/4"	0' - 3238'	7"	20.0#	
6 1/4"	0' - 7580'	4 1/2"	10.5#	

Tubing Program:

0' - 7580' 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 3000 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 drilling
- All BOP tests and drills will be recorded in daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

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/337 sx Class "G" w/3% sodium metasilicate, 2% calcium chloride, 10# gilsonite/sx and 1/2# flocele/sx. Tail w/90 sx 50/50 Class "G" Poz w/2% calcium chloride, 2% gel, 1/4 pps flocele, 5 pps gilsonite (984 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 during completion operations to determine TOC. Test casing to 1500 psi for 30 minutes.

7" intermediate casing alternative two stage: Stage collar at 2228'. First stage: cement with 237 sx 50/50 Class "G" Poz w/2% calcium chloride, 2% gel, 1/4 pps flocele, 5 pps gilsonite. Second stage: 264 sx Class "G" w/3% sodium metasilicate, 2% calcium chloride, 10# gilsonite/sx and 1/2# flocele/sx (984) 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 1793'. Two turbolating centralizers at the base of the Ojo Alamo at 1793'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

4 1/2" Production Casing -

Cement to cover minimum of 100' of 4 1/2" x 7" overlap. Lead with 443 sx 50/50 Class "G" Poz with 5% gel, 0.25# flocele/sx, 5# gilsonite/sx, 0.1% retardant and 0.25% fluid loss additive (638 cu.ft.), 40% excess to cement $41/2" \times 7"$ overlap). WOC a minimum of 18 hrs prior to completing.

If open hole logs are run, cement volumes will be based on 25% excess over caliper volumes.

Cement float shoe on bottom with float collar spaced on top of shoe joint.

- To facilitate higher hydraulic stimulation completion work, no liner hanger will be used. In its place, a long string of 4 1/2" casing will be run and cemented with a minimum of 100' of cement overlap between the 4 1/2" x 7" casing strings. After completion of the well, a 4 1/2" retrievable bridge plug will be set below the top of cement in the 4 1/2" x 7" overlap. The 4 1/2" casing will then be backed off above the top of cement in the 4 $1/2" \times 7"$ overlap and laid down. The 4 1/2" bridge plug will then be retrieved and the production tubing will be run to produce the well.
- 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 (Gas/Mist Drilling):

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

- An anchored bloose 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
- 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.
- Deduster equipment will be utilized.
- 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 Dakota and Mesa Verde formations will be completed and commingled.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

Fruitland Coal 150 psi Pictured Cliffs 180 psi 260 psi Mesa Verde 950 psi Dakota

- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered.
- The north half of Section 17 is dedicated to the Mesaverde and Dakota in this well.
- This gas is dedicated.

11/17/00 Date