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

1a.	Type of Work	5. Lease Number
	DRILL	NMSF-078423
		Unit Reporting Number
	· · · · · · · · · · · · · · · · · · ·	MV-8910016500
	\	DK-891001650A
1b.	Type of Well	6. If Indian, All. or Tribe
	GAS	
2.	Operator	7. Unit Agreement Name
۷.		3
	BURLINGTON RESOURCES Oil & Gas Company	San Juan 29-7 Unit
		A F
3.	Address & Phone No. of Operator	8. Farm or Lease Name San Juan 29-7 Unit
	PO Box 4289, Farmington, NM 87499	9. Well Number
	(505) 326-9700	140N
	(505) 320-3700	
4.	Location of Well	10. Field, Pool, Wildcat
•	1980' FNL, 1910' FWL SENW	Blanco MV/Basin D
		11. Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36 ⁰ 44.5, Longitude 107 ⁰ 35.8	F Sec. 8, T-29-N, R
		API# 30-039- 27036
14.	Distance in Miles from Nearest Town	12. County 13. State
- 	15.5 miles from Blanco	Rio Arriba NM
	Description of Normal Property of Land	Line
15.	Distance from Proposed Location to Nearest Property or Lease 1910'	Lille
16.	Acres in Lease Servicing operations authorized are Servicing to compliance with attached	17. Acres Assigned to Well
	S RELEASE TO LUMBIC MAN ATTACHED TOPNOTAL REQUIRENTS".	320 W/2
	Distance from Proposed Location to Nearest Well, Drlg, Compl,	or Applied for on this Lease
18.		or Wholien for our mas rease
	This activities on year to reconclest and	
19.	Proposed Depth proceeds. at rowlew pursuant to 43 OFR 0165.3 and appear pursuant to 43 OFR 0165.4	20. Rotary or Cable Tools
٠٠.	7475'	Rotary
		00 4
21.	Elevations (DF, FT, GR, Etc.)	22. Approx. Date Work will Star
	6226' GR	ت
23.	Proposed Casing and Cementing Program	
 .	See Operations Plan attached	
	•	
	Source (and	5-29-07
24.	Authorized by: Regulatory/Compliance Supervisor	Date
	keguratory/compriance supervisor	
		

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.

f...

DISTRICT I 1625 N. French Dr., Hobbs, N.M. 68240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

DISTRICT II 811 South First, Artesia, N.M. 88210

UL or lot no.

DISTRICT III 1000 Rio Brazos Rd., Axtec, N.M. 87410

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

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

☐ AMENDED REPORT

2040 South Pacheco, Santa Fe, NM 87505

Section

Township

Range

WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Name ³ Pool Code 1 API Number 30-039- 7 Blanco Mesaverde/Basin Dakota 72319/71599 Vell Number Property Name ⁴Property Code 140:N SAN JUAN 29-7 UNIT 7465 * Elevation *Operator Name OGRID No. 6226' BURLINGTON RESOURCES OIL AND GAS, INC. 14538 10 Surface Location East/West line North/South line Feet from the County

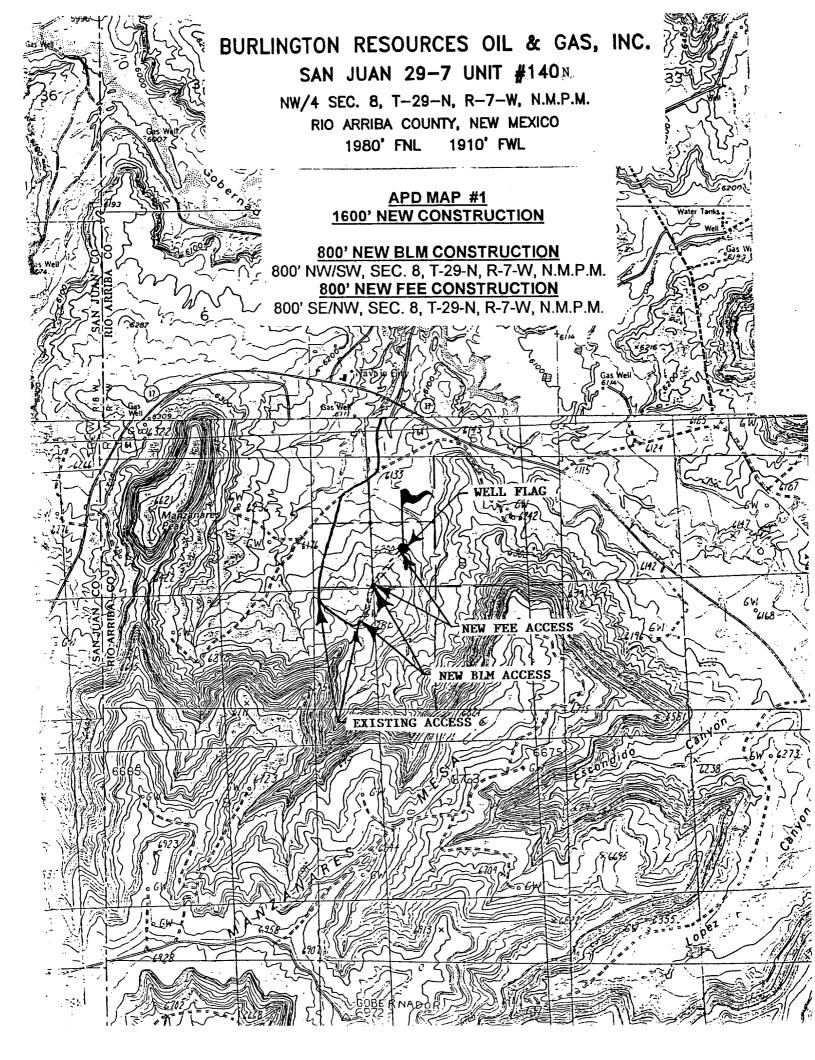
Feet from the

Lot Idn

RIO ARRIBA **NORTH** 1910' WEST 1980 7-W F 8 29-N 11 Bottom Hole Location If Different From Surface Rast/West line County North/South line Feet from the Lot Idn Feet from the UL or lot no. Section Township "Order No. M Consolidation Code is Joint or Infill Dedicated Acres MV - W/320DK - W/320

ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

OR A OR A	ASSIGNED NON-STAN	DARD UNIT HAS BEEN APP	PROVED BY THE DIVISION
FD 2 1/2" S 89-36-39 G.L.O. BC 2637.93' (M))	FD 2 1/2" G.L.O. BC 1914	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knewledge and belief
(M)	1980		
1910' 591'	728'	LAT: 36'44.5' N.	Signature Peggy Cole Printed Name
	,089	LONG: 107 35.8' W.	Printed Name Regulatory Supervisor Title 5-79-02 Date
FD 2 1/2" G.L.O. BC 1914 NMSF-078423			Is SURVEYOR CERTIFICATION I hereby certify that the well location shown on this was plotted from field notes of actual surveys made me or under my supervision. The that the same is to and correct to the best of the file. Date of Survey.
			Signature and state of 18094au Survision of 18094au
		J	Certifionte Humber



OPERATIONS PLAN

Well Name: San Juan 29-7 Unit #140N

1980'FNL, 1910'FWL, Section 8, T-29-N, R-7-W

Rio Arriba County, New Mexico

Latitude 36° 44.5, Longitude 107° 35.8

Formation: Blanco Mesa Verde/Basin Dakota

Elevation: 6226'GL

Formation Tops:	<u>Top</u>	Bottom	Contents
Surface	San Jose	1998′	
Ojo Alamo	1998′	2188'	aquifer
Kirtland	2188'	2609'	gas
Fruitland	2609 ′	3023 ′	J
Pictured Cliffs	3023'	3178'	gas
Lewis	3178 ′	3718 ′	gas
Intermediate TD	3278'		_
Huerfanito Bentonite	3718 '	4008'	gas
Chacra	4008'	4748'	gas
Cliff House	4748'	4838 ′	_
Menefee	4838'	5163 ′	gas
Point Lookout	5163'	5588 ′	gas
Mancos	5588 ′	6443 ′	gas
Gallup	6443 ′	7163 '	gas
Greenhorn	7163'	7223'	gas
Graneros	7223'	7277'	gas
Dakota	7277 '		gas
TD	7475′		

Logging Program:

Mud logs - none

Cased hole - CBL-CCL-GR - TD to surface

Open hole - AIR, CNL-CDL - Intermediate casing to 2100'

Cores - none

Mud Program:

•					
	Interval	Type	Weight	<u>Vis.</u>	Fluid Loss
	0- 200'	Spud	8.4-9.0	40-50	no control
	200- 3278'	LSND	8.4-9.0	30-60	no control
	3278- 7475'	Air/N2	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):

Hole Size	Depth Interval	Csg.Size	Wt.	Grade
12 1/4"	0' - 200'	9 5/8"	32.3#	WC-50
8 3/4"	0' - 3278	יי 7	20.0#	J-55
6 1/4"	3178' - 7475	4 1/2"	10.5#	K-55

Tubing Program:

0' - 7475'

BOP Specifications, Wellhead and Tests:

Surface to Intermediate TD -

11" 3000 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" 3000 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, 3000 psi minimum choke manifold (Reference Figure #2).

Completion Operations -

7 1/16" 3000 psi double gate BOP stack (Reference Figure #3). 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
- BOP pit level drill will be conducted weekly for each drilling crew.
- All BOP tests and 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 134 sx Type III cement with 0.25 pps Celloflake and 2% 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/289 sx Premium Lite cement with 3% calcium chloride, 0.25 pps Flocele, 5 pps LCM-1, 0.4% fluid loss, 0.4% SMS. Tail w/90 sx Type III cmt w/1% calcium chloride, 0.25 pps Flocele, 0.2% fluid loss (739 cu.ft. of slurry, 50% excess to circulate to surface.) WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL or a temperature survey will be run during completion operations to determine TOC. Test casing to 1500 psi for 30 minutes.

See attached alternative intermediate lead slurry.

7" intermediate casing alternative two stage: Stage collar 2509'. First stage: lead with 23 sx Premium Lite cement with 3% calcium chloride, 0.25 pps Flocele, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate. Tail with 90 sx Type III cmt w/1% calcium chloride, 0.25 pps Flocele, 0.2% fluid loss. Second stage: 266 sx Premium Lite cmt with 3% calcium chloride, 0.25 pps Flocele, 5 ps LCM-1, 0.4% fluid loss, 0.4% SMS (739 cu.ft., 50% 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 2188'. Two turbolating centralizers at the base of the Ojo Alamo at 2188'. 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 cover minimum of 100' of 4 $1/2" \times 7"$ overlap. Lead with 312 sx Premium Lite cmt w/0.25 pps Celloflake, 0.3% CD-32, 6.25 pps LCM-1, 1% fluid loss (617 cu.ft.), 40% excess to cement 4 $1/2" \times 7"$ overlap). WOC a minimum of 18 hrs prior to completing.

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

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

Note: 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" x 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 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.
- 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 Mesaverde and Dakota formations will be completed and commingled.
- 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 Dakota 2500 psi

- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered.
- The west half of Section 8 is dedicated to the Mesaverde and the Dakota in this well.
- This gas is dedicated.

Brennan D. Short	5/29/2002	
Drilling Engineer	Date	