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

		5. Lease Number
a.	Type of Work	NMSF-080511
	DRILL	Unit Reporting Number
	3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -	
b.	Type of Well	6. If Indian, All. or Tribe
	GAS	ં∱
		7. Unit Agreement Name
2.	Operator BURLINGTON RESOURCES Oil & Gas Company	7. Olik Agroomone Name
	O Physical Computer	8. Farm or Lease Name
3.	Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499	Harrington
	PO Box 4289, Farmington, NM 87499	9. Well Number
	(505) 326-9700	4X
4.	Location of Well	10. Field, Pool, Wildcat
٠.	1440' FNL, 1410' FEL	Basin Fruitland Coal/
	1410 1827 1110 122	So Blanco Pict Cliffs
		11. Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36° 32.0, Longitude 107° 36.8	رُّح Sec. 31, T-27-N, R-7-
		API# 30-039-26935
14.	Distance in Miles from Nearest Town	12. County 13. State
14.	25 miles from Blanco	Rio Arriba NM
15.	Distance from Proposed Location to Nearest Property or Least 1410'	se Line
16.	Acres in Lease DONG MAS OPTER TIONS AUTHORIZED ARE	17. Acres Assigned to Well
	SUBJECT OF SEATELANCE WITH ATTACHED	FTC - E/320
	"GENERAL REQUIREMENTS"	PC - 160
18.	Distance from Proposed Location to Nearest Well, Drlg, Com	pl, or Applied for on this Lease
	120'	
40	This action is subject to technical and Proposed Depth procedural review pursuant to 43 CFR 3	20. Rotary or Cable Tools
19.	Proposed Depth 3018' procedural review pursuant to 43 CFR 3165.4,	Rotary
		OO A Data Made will Start
21.	Elevations (DF, FT, GR, Etc.)	22. Approx. Date Work will Start
	6636' GR	
23.	Proposed Casing and Cementing Program See Operations Plan attached	
	See Operations Fian actached	
	(// // // // // // // // // // // // //	2-4-02
24.	Authorized by: Algady Call	
	Regulatory/Compliance Superviso	Date
_		JUL - 1
DED	MIT NO APPROVA	AL DATE
PER	MIT NO. APPROVA	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.

DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

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

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505 Submit to Appropriate District Office
State Lease — 4 Copies
Fee Lease — 3 Copies

1000 Rto Brozce Rd., Aztec, N.M. 87410
DISTRICT IV
2040 South Pocheco, Sonto Fe, NM 87505

☐ AMENDED REPORT

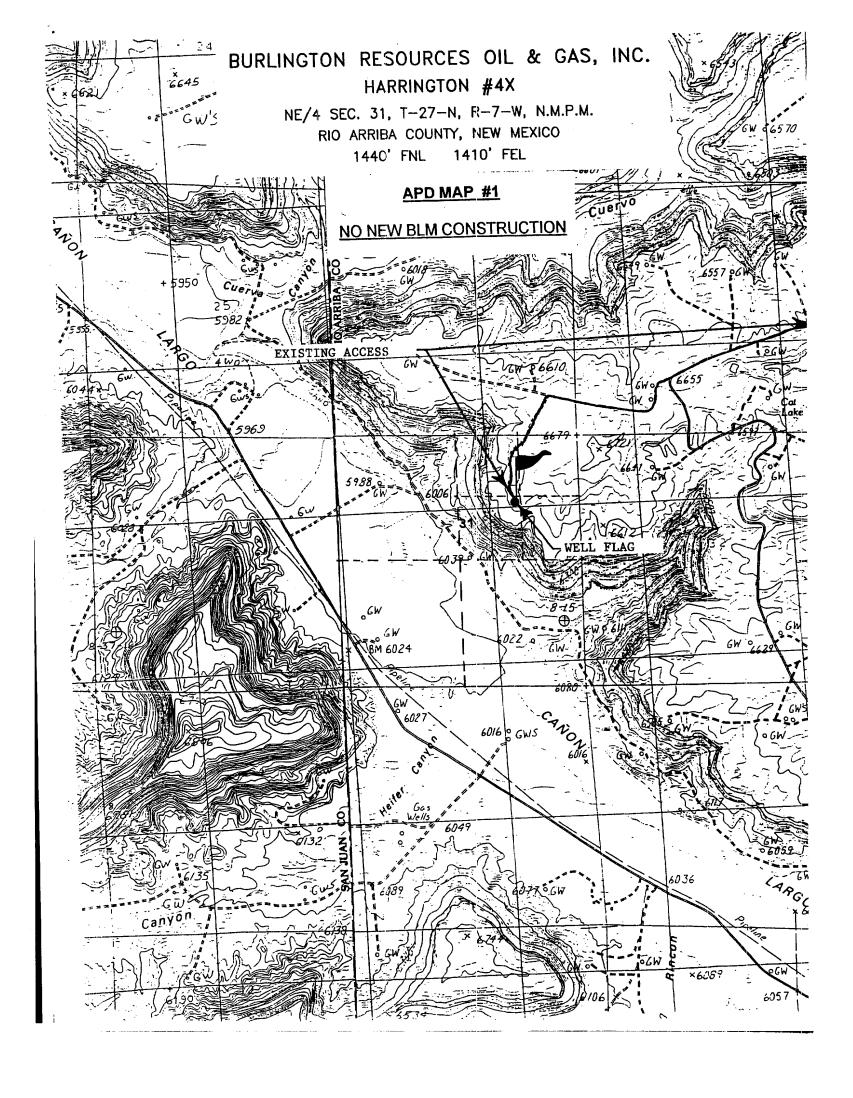
WELL LOCATION AND ACREAGE DEDICATION PLAT

1.50.1	3 Pool Code	* Pool Name	
1 API Number 30-045	935 72439 /71629	Blanco PC South/Basin FC	
⁴ Property Code 7094	° Pr	roperty Name RRINGTON	⁶ Well Number 4X
70GRID No. 14538	1	perator, Name URCES OIL & GAS INC.	* Elevation 6636

¹⁰ Surface Location East/West Mine County Feet from the North/South line Feet from the Let Idn Township UL or lot no. Section RIO ARRIBA 1410 **EAST** 7-W NORTH 27-N 1440 31 G Location If Different From Surface ¹¹ Bottom Hole North/South line Feet from the East/West line County Lot Ide Feet from the Township Section Ut. or lot no. *Order No. ¹⁴ Consalidation Code 13 Joint or infili 12 Dedicated Acres PC-NE/160

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

LOT 1 110' SF080511 LOT 2 LOT 2 LOT 3 LOT 4 LOT 3 LOT 3 LOT 3 LOT 4 LOT 3 LOT 3 LOT 3 LOT 3 LOT 4 LOT 4 LOT 4 LOT 5 LOT 5 LOT 6 LOT 6 LOT 6 LOT 6 LOT 7 LOT 7 LOT 7 LOT 7 LOT 7 LOT 7 LOT 8 LOT 9 LOT 9	OR A NON-SIAN	DARD UNIT HAS BEEN		HE DIVISION
LAT: 36'32.0' N. LONG: 107'36.8' W. Same	FD (W.C.) FD 2 1/2" + 178.2 BLM 1955 BRASS CAP	044		I hereby certify that the information contained herein to true and complete to the best of my knowledge and ballet. Output O
SF-08/0511 and correct to the best (NOW) MASK South of Secretarian Surveyors Signature Side Seed of Secretarian Surveyors		AT: 36'32.0' N.	00.32.39 W	Printed Name Legulatory Supervisor Title 2-4-02 Date 18 SURVEYOR CERTIFICATI I hereby certify that the well bootton shown on this pick was plotted from field notes of actual surveys made by
		SF-08/05	FD 2 1/2" BLM 1954 BRASS CAP	Date of Superior State South of Superior Superior States South of Superior



OPERATIONS PLAN

Well Name: Harrington #4X

1440'FNL, 1410'FEL, Section 31, T-27-N, R-7-W Location:

Rio Arriba County, New Mexico Latitude 36^o 32.0, Longitude 107^o 36.8

Formation: Basin Fruitland Coal/South Blanco Pictured Cliffs

Elevation: 6636' GL

Formation:	Top	Bottom	Contents
Surface	San Jose	2008′	
Ojo Alamo	2008 ′	2153 ′	aquifer
Kirtland	2153 ′	2398'	gas
Fruitland	2398'	2818'	gas
Pictured Cliffs	2818'		gas
Total Depth	3018 ′		

Logging Program:

Cased hole - Surface to TD - CBL-CCL-GR Open hole - Platform Express - Surface to TD

Mud log - 2153 to TD Coring Program:

Mud Program:

Interval	Type	Weight	<u>Vis.</u>	Fluid Loss
0- 200'	Spud		40-50	no control
200-3018'	FW	8.4-9.0	32-45	no control

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

Hole Size	Depth Interval	Csg.Size	Wt.	Grade
8 3/4" 6 1/4"	0 - 200' 0 - 3018'	7" 4 1/2"	20.0# 10.5#	
Tubing Program:	0' -3018'	2 3/8"	4.7#	J-55

Float Equipment: 7" surface casing - saw tooth guide shoe. Centralizers will be run in accordance with Onshore Order #2.

4 1/2" production casing - float shoe on bottom. Three centralizers run every other joint above shoe. Seven centralizers run every 3rd joint to the base of the Ojo Alamo @ 2153'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 2153'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: 7" x 4 1/2" x 2 3/8" 2000 psi screw on independent wellhead.

Cementing:

7" surface casing - cement with 76 sx Class B cement w/3% calcium chloride and 0.25 pps Flocele (90 cu.ft. of slurry, circulate cement to surface). WOC 8 hrs. Test casing to 600 psi for 30 minutes.

4 1/2" production casing - Lead w/232 sx Premium Lite cement w/3% calcium chloride, 1/4 pps Flocele, 5 pps LCM-1, 0.4% FL-52, 0.4% SMS. Tail w/90 sx Type III cement w/1% calcium chloride, 1/4 pps Flocele, and 0.2% FL-52 (619 cu.ft. of slurry, 100% excess to circulate to surface).

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

BOP and tests:

Surface to TD - 11" 2000 psi (minimum double gate BOP stack (Reference Figure #1). Prior to drilling out surface casing, test rams to 600 psi/30 min.

Completion - 6" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test rams and casing to 2000 psi/15 min.

From surface to TD - choke manifold (Reference Figure #3).

Pipe rams will be actuated to least once each day and blind rams actuated once each trip to test proper functioning. An upper kelly cock valve with handle and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

BOP and tests (if a coiled tubing drilling rig is utilized):

Surface to TD: 7 1/16" 2000 psi (minimum) Torus annular BOP stack (Reference Figure #1B). Prior to drilling out surface casing, test annular BOP to 600 psi/30 minutes.

Completion: 7 1/16" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test blind rams and casing to 1500 psi/30 minutes; all pipe rams and casing to 1500 psi/30 minutes each.

From surface to TD: choke manifold (Reference Figure #3).

The annular BOP will be actuated to close on drill pipe (coiled tubing) at least once each day and to close on open hole once each trip to test proper functioning.

Additional information:

- * The Fruitland Coal and Pictured Cliffs formation will be completed and commingled.
- * Anticipated pore pressure for the Fruitland Coal and Pictured Cliffs is 500 psi.
- * This gas is dedicated.
- * The east half of Section 31 is dedicated to the Fruitland Coal and the northeast quarter of Section 31 is dedicated to the Pictured Cliffs.

Drilling Engineer 2/5/02

Date