

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	APPLICATION FOR PERMIT TO DRILL, DEEPE	
1a.	Type of Work	5. Lease Number
	DRILL -	SF-078882 Unit Reporting Number
		Onk Reporting Number
1b.	Type of Well	6. If Indian, All. or Tribe
	GAS AUG 2001	
		7. Unit Agreement Name
2.	RIPLINGTON COLON	73
	RESOURCES Oil & Gas Company Distriction	Canyon Largo Unit
3.	Address & Phone No. of Operator	8. Farm or Lease Name
J.	PO Box 4289, Farmington, NM 87499 5	Canyon Largo Unit
		9. Well Number
	(505) 326-9700	451
4.	Location of Well	10. Field, Pool, Wildcat
₹.	1795' FNL, 1980' FWL	Basin Dakota
	•	11. Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36° 24.1, Longitude 107° 30.6	F sec. 18, T-25-N, R-6-W API# 30-039- 26646
14.	Distance in Miles from Nearest Town	12. County 13. State
17.	35 miles from Blanco	Rio Arriba NM
15.	Distance from Proposed Location to Nearest Property or Lease	Line
46	1795' Acres in Lease	17. Acres Assigned to Well
16.	Acres III Lease	320.52 W/2
18.	Distance from Proposed Location to Nearest Well, Drlg, Compl,	or Applied for on this Lease
	3200'	20. Rotary or Cable Tools
19.	Proposed Depth	Rotary
	7380′	
21.	Elevations (DF, FT, GR, Etc.)	22. Approx. Date Work will Start
	6775′_GR	
23.	Proposed Casing and Cementing Program	group from septral result interrorded ARE
	See Operations Plan attached	SCHEN TO CLU TO THE WAR ATTACHE
		HOSILEPAU REQUELLMENTS
	$\langle \cdot \rangle$	
24.	Authorized by:	11-30-00
27.	Regulatory/Compliance Supervisor	Date
PER	MIT NO. APPROVAL	DATE \(\lambda / \lambda \sqrt{0} \)
	(1) 'all le \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	march DATE 8/15/01
APP	ROVED BY (MICH full Malacia) TITLE 14-111	minutes of the second

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.

MALL

DISTRICT I P.O. Box 1980, Hobbs, N.M. 88241-1980 State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease — 4 Copies Fee Lease — 3 Copies

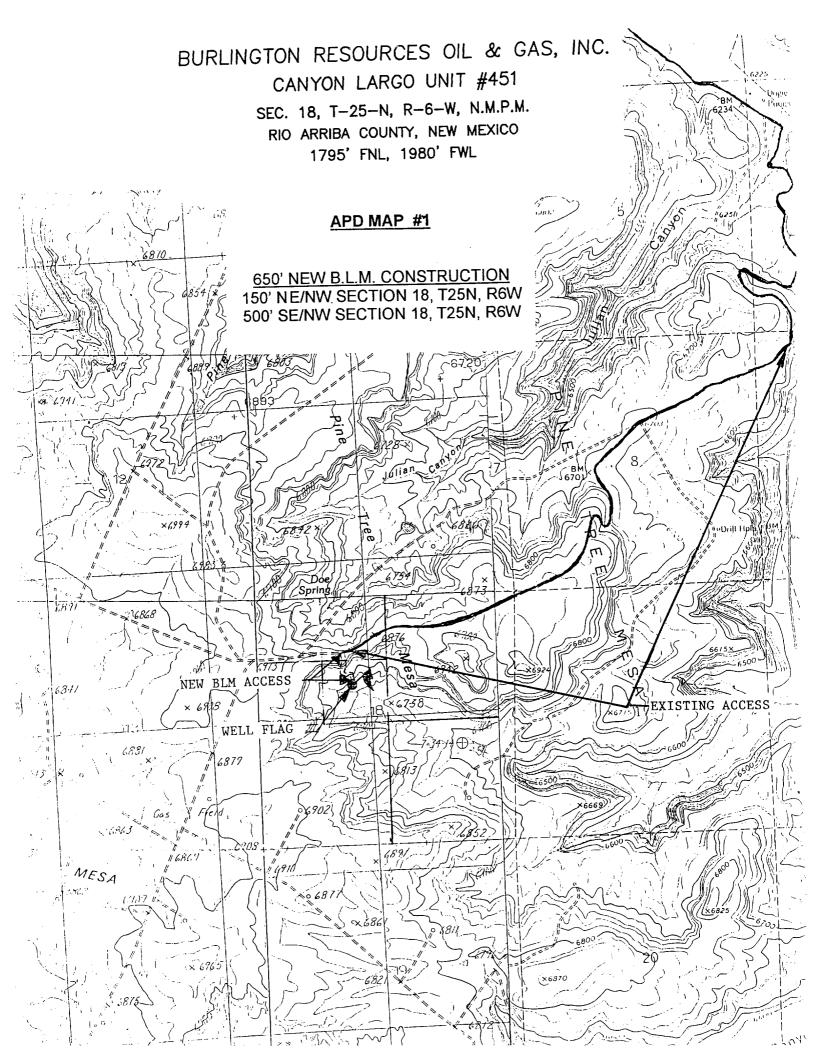
Certificate Number

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

OIL CONSERVATION DIVISION P.O. Box 2088

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

RICT IV				So	into re, N	M 6/3	004-2000				AMEN[DED REPORT
ox 2088, Santa	Fe, NM 87	/5042088 W	ELL LC	CATION	N AND	ACR	REAGE DEDI	CATIO	ON PL	AT		
1 APL N	lumber			Pool Code					Pool Name			
0-039-7	669	46_	7159	9			n Dakota			 -	⁸ We	II Number
⁴ Property Cod	le		_		•	erty Nar						451
6886				(CANYON L							
OGRID No.					•	rator No					*Elevation 6775'	
14538			BURLINGTON RESOURCES OIL & GAS, INC.							6773		
							Location North/South line	Fast f	rom the	Eost/Wes	t line	County
L or lot no. F	Section 18	Township 25-N	Ronge 6-W	Lot Idn	Feet from 1795		NORTH	1	980'	WES		RIO ARRIBA
			11 Bott	om Hole	Locat	ion I	f Different Fr	om S	urface			
IL or lot no.	Section	Township	Ronge	Lot Idn	Feet from the		North/South line		from the	East/Wes	rt line	County
Dedicated Acre		13	Joint or Infill		14 Consolida	ation Co	de	15 Orde	r No.	.1		<u></u>
W/320.52			1.66(0)/E	D TO T	US COM	DI ETI	ON UNTIL ALL	INTE	RESTS	HAVE B	EEN C	ONSOLIDATE
NO ALLO	WABLE	WILL BE	ASSIGNE NON-ST	D TO TE ANDARD	-UNIT .H.	AS B	EEN APPROVE	D BY	THE .D	INISION		
				0								
6 — — — FD 3 1/2"_E	~	89-41-15 2647.22	E	FD 3 1	1/2° BC 1965	Ì						ERTIFICATION
B.L.M. 1965	~	2047.22							true and con	ppiete to the b	est of my k	ntained herein is nowledge and belief
		Ì										
m FOT ,	1				-							
9. ₇ .			1795	1						-		
00-21-35 2601.42				l l								
8 <u>~</u>		 							1)]
ω						10 19	112122	(PIPI	1/1	U
	1980'			1	(63)	10			Signatur	992	7 (
			LAT. 36	24.1'N	150	A L L C			Peggy	Cole		
LOT	2		LONG. 1	0730.6W			2001		Printed		C	ricor
ļ				1	11.7.2		The second of th		Regul	atory_		
1				1 0		ZL CC Entr	Kow 3			_//-	30.	00
		F-078882 -		18 -	· V				Date	· ,		
FD 3 1/2" B.L.M. 1965	BC			H			27.		18			ERTIFICATIO
1				il			المستعدد الم		i hereby i	certify that the	he well local notes of a	ation shown on this atual surveys made t
l LOT	. 3			- 1					or under	my supervisio	on, and the	it the same is true
1	-			H					correct to	the best of	V A	
				1						18-18		100
				μl						www.	W MEX	
 				11					Signatu	former Seal	1	point/Survivor:
				1] [[[8894	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \
¦				I\						1EI	\mathcal{H}	V\$\\
-	Т 4			1						数人	لجنك	JUNE STEEL
	· ·									, , , , , , , , , , , , , , , , , , , 	SICHAL	,
H1				1			1				8894	



OPERATIONS PLAN

Canyon Largo Unit #451 Well Name:

1795'FNL, 1980'FWL, Sec 18, T-25-N, R-6-W Location:

Rio Arriba County, NM

Latitude 36° 24.1, Longitude 107° 30.6

Formation: Basin Dakota Elevation: 6775' GL

Formation Tops:	Top	Bottom	<u>Contents</u>
Surface	San Jose	2025'	
Ojo Alamo	2025'	2225 ′	aquifer
Kirtland	2225 ′	2425 '	gas
Fruitland	2425'	2690'	gas
Pictured Cliffs	2690 '	2825 '	gas
Lewis	2825'	3085 '	gas
Mesa Verde	3085 ′	3546 ′	gas
Chacra	3546 ′	4250 ′	gas
Massive Cliff House	4250'	4320'	gas
Menefee	4320'	4943 '	gas
Massive Point Lookout	4943'	5180'	gas
Mancos	5180 ′	6533 ′	gas
Gallup	6533 ′	6915 ′	gas
Greenhorn	6915'	6967 '	gas
Graneros	6967'	7008'	gas
Dakota	7008 ′		gas
TD	7380 '—		

Logging Program:

Open hole - Array Induction, Neutron-Density - TD to intermediate Casing, DIL-GR TD to surface

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

Cores - none

Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0- 320'	Spud	8.4-8.9	40-50	no control
320- 7450'	LSND	8.4-9.0	40-60	8-12

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

Casing Program:

Hole Size	Depth Interval	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0' - 320'	8 5/8"	24.0#	WC-50
7 7/8"	0' - 7380' -	- 4 1/2"	11.6#	N-80

Tubing Program:

2 3/8" 4.7# J-55 0' - 7380'

BOP Specifications, Wellhead and Tests:

Surface to 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.

2" nominal, 3000 psi minimum choke manifold (Reference Figure #3).

Completion Operations -

6" 3000 psi double gate BOP stack (Reference Figure #2). After nipple-up prior to completion, pipe rams and casing top will be tested to 3000 psi for 15 minutes.

Surface to Total Depth -

2" nominal, 3000 psi minimum choke manifold (Reference Figure #3).

Wellhead -

8 5/8" x 4 1/2" x 1 1/2" x 1 1/2" 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.
- A BOP pit level drill will be conducted weekly for each drilling crew.
- All of the BOP tests and drills will be recorded in the daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

<u>Cementing:</u>

8 5/8" surface casing -

Cement to surface w/336 sx Class "G" cement w/3% calcium chloride and 1/4#/sx cellophane flakes (396 cu.ft. of slurry, 200% excess to circulate to surface.) WOC 8 hr prior to drilling out surface casing. 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.

Production Casing - 4 1/2"

Two-stage cement job as follows:

First Stage: Cement to circulate to stage tool @ 4150'. Lead with 766 sx class ""G" 50/50 poz w/5% gel, 0.25 pps Celloflake, 5 pps Gilsonite, 0.25 pps Fluid loss, 0.15% dispersant, 0.1% retarder. WOC 4 hours prior to pumping second stage. (Slurry volume: 1103 cu.ft. Excess slurry 50%.)

Second Stage: Cement to circulate to surface. Cement with 563 sx Litecrete, 0.11% dispersant. WOC a minimum of 18 hours prior to cleanout. (Slurry volume: 1418 cu.ft. Excess slurry: 50%.)

Float shoe on bottom. Three centralizers run every other joint above shoe. Thirty-five centralizers - one every 4th joint to the base of the Ojo Alamo @ 2225'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 2225'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

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

Additional Information:

The Dakota formations will be completed.

- No abnormal temperatures or hazards are anticipated.
- 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 west half of Section 18 is dedicated to this well.
- This gas is dedicated.
- Anticipated pore pressure

Fruitland Coal 300 psi Pictured Cliffs 500 psi Mesa Verde 700 psi Dakota 3000 psi

The Horbert prilling Engineer

/2/12/00