Form 3160-3 (August 1999)

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

FORM APPROVED OMB No. 1004-0136 Expires November 30, 2000

	5. Lease Serial N
RECEIVED	NMSF-079

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6	If Indian	Allottee o	r Tribe	Name

	APPLICAT	ION FOR PI	ERMIT TO DR	ILL OR	REENTER	. I V L. O	6. If Indian, Allot	tee or Tribe Name	
la. Type of Work:	drill		REENTEI	_		<u> </u>	OO	greement, Name and N	
1b. Type of Well:	Oil Well	Gas Well	Other		070 Formir Single Zone Multi		MB. Lease Name and F-RPC 29	d Well No.	
2. Name of Operat		N OPERA	ATING CO.				9. API Well No. 30-045-	31281	
3a. Address 3100		A HIGHW			No (fictude area code) 505) 564-3100		10. Field and Pool, 6 W KUTZ PC 8	or Exploratory B BASIN FRUIT	COAL
4. Location of Wel				iny State re	quirements. *)	198	11. Sec., T., R., M.,	or Blk. and Survey or	Area
At surface At proposed pro		'FSL&7	45' FEL		701.50	5	P 29-29n-13	3w NMPM	
14. Distance in miles	and direction f	rom nearest tow	n or post office*	bir.			12. County or Paris		
15. Distance from pr				16. No.	Acres in lease	17. Spacin	g Unit dedicated to th	nis well	
location to neare property or lease (Also to nearest)	line, ft.	f any)	730'	1,4	70.81	PC: 16	60 AC. (SE4)	COAL: 320 /	4C. (E: 2
18. Distance from pro				19. Proposed Depth 20. BLM		20. BLM/I	I/BIA Bond No. on file		
to nearest well, d applied for, on th	is lease, ft.	ed, ,	3,570'	1,6		1		M - NATION	NIDE)
21. Elevations (Sho 5,830' GL		KDB, RT, GL,	etc.)	1	roximate date work will st NUARY 2, 2003		23. Estimated dura 2 WEEK		
				24. A	ttachments				
The following, compl	eted in accorda	nce with the requ	irements of Onsho	re Oil and	Gas Order No.1, shall be a	ttached to this	s form:		
 Well plat certified A Drilling Plan. 	by a registered	surveyor.			4. Bond to cover t Item 20 above)		ns unless covered by a	an existing bond on fil	le (see
3. A Surface Use Pla SUPO shall be fil	n (if the location and the location in the loc	on is on National propriate Forest S	Forest System Lan Service Office).	ds, the	5. Operator certifi 6. Such other site authorized office	specific infor	mation and/or plans a	as may be required by	the
Comments									
On site in Notice of	spection Staking f	with Rog iled as "f	jer Herrera RPC 29 4"						
DRILLING OPER SUBJECT TO CO "GENERAL REQU	MPLIANCE WIT		procedural	eview purs	o techn ical and suant to 43 CFR 3165.8 o 43 CFR 3165.4				
)	1				cc:BLM (&O	CD), Richard	dson
25. Signature	34	book		N	ame (Printed/Typed)	BRIAN	WOOD	Date 12-7-02	
Title	CONSUL	TANT	PHC	NE: 5	05 466-8120		FAX: 5	505 466-9682	
Approved by (Signati	ire)			, N	ame (Printed/Typed)		· · · · · · · · · · · · · · · · · · ·	¹ Dates o o	1000

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Name (Printed/Typed)

Conditions of approval, if any, are attached.

Title

MVR Balderaz

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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 representations as to any matter within its jurisdiction.



BAN

2 2003



State of New Mexico Energy. Minerals & Mining Resources Department OIL CONSERVATION DIVISION 2040 South Pacheco

Santa Fe. NM 87505							MENDED REPORT		
			WEL			CREAGE D	EDICATION	PLAT	
30-04	45-	3 /28	716	Pool Code 29 & 79		ASIN FR	UIT. COA	Pool Name	EST KUTZ PC
Property (code	T		·	Property No	24			Well Number
3105	57				FRPC 29)			4
8982	ካ ዓ				Operator No	lie			Bevarion
0132	1.5		R	CHARDSO	N OPERAT	ING COMPA	ANY		5830
						e Location			
ULorlos	Sec.	Twp.	Rge.	Lot ldn	i l	North/South	1	East/West	County
.P	29	29 N.	13 W.		. 430.	SOUTH	745	EAST	SAN JUAN
	<u> </u>				Hole Location				
U or Lot	Sec	Tup.	Rge.	Lot lon	Feet from>	North/South	Feet from>	East/West	County
					<u> </u>		<u> </u>	<u> </u>	
Dedication	٦	int?	Consolido	tion			Ord	er No.	
L	L								
	ı	NO ALLOWAE					l interests i D by the div		CONSOLIDATED
					//	/ /		7 -	
									ERATOR CERTIFICATION
				- -]		I her	eby certify that the information ained herein is true and complete
		000	استعالي	1	INITIAL PROPOSED			to t	ne best of my knowledge and
		A 7 5 5	W/\sim	.	F-RPC 29 #1	, das wece		belie	·. \ /)
		× B	<u></u>		1080 FNL & 1585 FEL	7		Signa	ature B. Color
	21.2	767				,		Print	red NameBRIAN WOOD
	L'E VI	S CAN						Title	CONSULTANT
		Q 25.5				Cos	•	Date	P DEC. 7, 2002
				- 29 -	·				JRVEYOR CERTIFICATION
						Fruit.	•	1 he	reby certify that the well location this plat was plotted from field se of actual surveys made by me under my supervision, and that the
							•	or som	under my supervision, and that the e is true and correct to the best
				Y				of	my belief. • of Survey
				1		. clift		Sign	31 NOVEMBER 2002
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Richardson Operating Co. F-RPC 29 #4 730' FSL & 745' FEL Sec. 29, T. 29 N., R. 13 W. San Juan County, New Mexico

Drilling Program

1. ESTIMATED FORMATION TOPS

Formation Name	GL Depth	<u>KB Depth</u>	<u>Elevation</u>
Ojo Alamo Ss	000'	5'	+5,830'
Kirtland Shale	150'	155'	+5,680'
Fruitland Fm	1,330'	1,335'	+4,500'
Pictured Cliffs Ss	1,530'	1,535'	+4,300'
Total Depth (TD)*	1,600'	1,605'	+4,205'

^{*} all elevations reflect the ungraded ground level of 5,830'

2. NOTABLE ZONES

Gas Zones	Water Zones	<u>Coal Zones</u>
Fruitland	Ojo Alamo	Fruitland
Pictured Cliffs	Fruitland	

Water zones will be protected with casing, cement, and weighted mud. Fresh water encountered during drilling will be recorded by depth, cased, and cemented. Oil and gas shows will be tested for commercial potential based on the well site geologist's recommendations.

3. PRESSURE CONTROL

The drilling contract has not yet been awarded, thus the exact BOP model to be used is not yet known. (A typical 2,000 psi model is on PAGE 3.) Double ram or annular system with a rotating head will be used. All ram preventers and related equipment will be hydraulically tested at nipple up and after any use under pressure to 1000 psi.



Richardson Operating Co. F-RPC 29 #4 730' FSL & 745' FEL Sec. 29, T. 29 N., R. 13 W. San Juan County, New Mexico

Blind rams will be hydraulically activated and checked for operational readiness each time pipe is pulled out of the hole. All checks of the BOP stack and equipment will be noted on the daily drilling report. BOP equipment will include a kelly cock, floor safety valve, and choke manifold all rated to 2000 psi. Maximum expected pressure is \$\approx 415 psi.

4. CASING & CEMENT

Hole Size	<u> O. D.</u>	Weight (lb/ft)	<u>Grade</u>	<u>Age</u>	<u>GL Setting Depth</u>
8-3/4"	7"	20	K-55	New	120'
6-1/4"	4-1/2"	10.5	K-55	New	1,600'

Surface casing will be cemented to surface with ≈ 36 cu. ft. (≈ 30 sacks) Class B + 2% CaCl₂. Volume is based on 100% excess, yield of 1.18 cu. ft./sk, and slurry weight of 15.6 PPG. W.O.C. = 12 hours. Pressure test surface casing to 600 psi for 30 minutes.

Production casing hole will first be cleaned of rock chips by circulating at least 150% of hole volume with mud to the surface. Forty-five barrels of fresh water will next be circulated. Lead with ≈ 200 cubic feet (≈ 97 sacks) of Class B with 2% metasilicate (yield = 2.06 cubic feet per sack, slurry weight = 12.5 pounds per gallon). Tail with ≈ 130 cubic feet (≈ 111 sacks) of Class B with 2% CaCl₂ (yield = 1.18 cubic feet per sack, slurry weight = 15.6 pounds per gallon). Total cement volume is ≈ 330 cubic feet based on 100% excess and circulating to surface.

Production casing will have 4-1/2" cement guide shoe and self fill float collar. Float will be placed one joint above the shoe. Eight centralizers will be spaced on every other joint starting above the shoe. Eight turbolizers will be placed on every other joint starting from the top of the well.

