FORM APPROVED OMB NO. 1004-0136 Expires: February 28, 1995

		0111	ILDUIAILU			<u></u>		
		DEPARTMEI	NT OF THE INTERI	IOR RECE		5. LEASE DESIGNATION A	IND SERIAL NO.	
			F LAND MANAGEMENT	HEUE		SF-079	9366	
		APPLICATION FOR P		OR DEEPEN		6. IF INDIAN, ALLOTTEE C	R TRIBE NAME	
a TYP	E OF WORK				AM 8: 3	1		
		DRILL X	DEEPEN	200 FEB 24	1 83 0- 2	7. UNIT AGREEMENT NAN	ΙE	
TYP	E OF WELL		_	— 070 F	N IN	Rincon	Unit	
	OIL WELL	GAS WELL X OTHER	SINGL ZONE	f 0/0 hangg	POtox NA	8. FARM OR LEASE NAME	, WELL NO.	
NAM	E OF OPERATOR				-	Rincon Uı	nit 170R	
		Pure	Resources	- Company of the Comp		9. API WELL NO.		
ADD	RESS AND TELEPHONE NO			129355 N		300392	1324	
		P.O. Box 850,	Bloomfield New Mexico	Rest now	7	10. FIELD AND POOL OR W	MLDCAT	
LOC	ATION OF WELL (Report loc	ation clearly and in accordance with any St	ate requirement)*	Of the second		Basin Dakota/	Mesa Verde	
At s	ırface	2	2070' FSL and 2460' FSL	7 7000		11. SEC., T.,R.,M., OR BLK. AND SURVEY OR AREA		
At p	oposed prod.zone		<b>ψ</b> .			رز ا		
. DIS	ANOT IN AU EQ AND DIDE	CTION FROM NEAREST TOWN OR POST	Same as Surface	1		Sec. 20, T-2		
. புத	ANCE IN MILES AND DIKE	CHON FROM NEAREST TOWN OR POST	OLLICE. 15.		$\approx l$	12. COUNTY OR PARISH	13. STATE	
_		40 miles South	east from Bloomfield NM		33/	Rio Arriba	NM	
LOC	ANCE FROM PROPOSED*	7850'	16. NO. OF ACRES IN	LEASE	17 NO OF ACRES	ASSIGNED TO	104	
	PERTY OR LEASE LINE FT (Also ist drig. Unit line, if any) ANCE FROM PROPOSED' LOC/	) to		2645.09	W/J	LMV 320 5	シルト	
	ANCE FROM PROPOSED' LOC/ REST WELL, DRILLING, COMPLI		19. PROPOSED DEPT	H	20. ROTARY OR	CABLE TOOLS /		
	OR APPLIED FOR, ON THIS LEA	ISE, FT.		7700'	1	Rotary		
ELE	VATIONS (Show whether DF	, RT, GR,	6541'			22. APPROX DATE WORK	MLL START*	
			0041			ASAF		
		PI	ROPOSED CASING AND	CEMENTING PROGRAM				
	SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT		
	12-1/4"	H-40 9-5/8"	32.3#	350'	200 SACKS	"B" TOC @ SURFACE		
	8-3/4"	K-55 7*	20#	2626'	405 SACKS	TYPE III TOC @ SURFA	CE	
	6-1/4"	N-80 4-1/2"	11.6#	7700'	610 SACKS	CKS 65/35 POZ TYPE III TOC TIED INTO		
	7" casing							
			II Transa a dista a d	A DD /D /DIV				

#### <u>"Expedited APD/ROW</u>

Pure plans to drill the Rincon Unit 170R, and complete in the Mesa Verde and the Basin Dakota and downhole commingle the two formations. This well will be an infill 80 acre.

BOP- One double gate BOP with 3-1/2" pipe and blind rams, one choke manifold with adjustable and positive chokes, an accumulator will hydraulically operate BOP with 1 1/2 times the necessary capacity to close the rams and retain a minimum of 200 psi above recharge. Rotating head will be utilized during the drilling of the 6-1/4" hole.

(Schematics are attached)

BRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

> This action is subject to technical and Brocedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

IN ABOVE SPACE DESCRIBED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or

	give pertinent data on subsurface locations and	measured and true v	ertical depths. Give blowout preventer program, if a	ny.	
SIGNED	MIKE C. PHILEPS	TITLE	San Juan Basin Area Drlg Prod Foreman	DATE	2/20/03
(This space for Fe	deral or State office use)			2	
PERMIT NO.			APPROVAL DATE	6/2/0	3
Application approva		legal or equitable title to	those rights in the subject lease which would entitle the	application to conduct of	operations thereon.
APPROVED BY	Original Signed: Stephen Mason	TITLE		DATE	/2/03

\*See Instructions On Reverse Side

DESTRICT I - 1625 M. French Dr., Hobbs, N.M. 66240

# State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

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

DESTRICT III 1000 Rio Brazos Ré., Astec, N.M. 67410

#### 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

DISTRICT IV 2040 South Pacheco, Santa Fe. NM 87505

3040 South Pach	ano, nanta			CATION	AND AC	REAGE DEDI	CATION PL	AT	
					ol Code Spool Name				
30-039-27,324 7159					18	Basin Dal	tota		ell Kumber
Property Code  26629  CORRED No.					*Property RINCON UN				170R
					*Operator				Elevation
189071					PURE RESC				6541'
					10 Surface		·		
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DESTRICT I . 1625 M. French Dr., Hobbs, M.M. 88240

# State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

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

DISTRICT III 1000 Rio Brazos Rd., Asteo, N.M. 67410

## OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87605

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

HSTRICT IV 1040 South Pache	sco, Santa	Pe, NM 87500	<b>,</b>					☐ AMEN	DED REPOR
		W	ELL LC	CATION	I AND AC	REAGE DEDI	CATION PL	AT	
7	Number	324		*Pool Code 319		Blanco Mesa Ve	Pool Name		
30-039- C		027	1 /2.	213	*Property			• Wei	i Mumber
					RINCON UN				170R
26629 YOGRED No.	<u>.                                    </u>				*Operator		· · · · · · · · · · · · · · · · · · ·	•	Devation
189071	`				PURE RESC	DURCES			6541'
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### PURE RESOURCES RINCON UNIT WELL NO. 170R 2070' FSL, 2460' FWL, SEC. 20, T-27-N, R-6-W Rio Arriba County NM

### **8 POINT DRILLING PLAN**

#### 1. ESTIMATED FORMATION TOPS

FORMATION NAME	DEPTH FROM GL
San Jose	Surface
Ojo Alamo	2,216'
Kirtland Shale	2,586'
Pictured Cliffs	3,101'
Cliff House	4,816'
Point Lookout	5,281'
Mancos	5,731'
Tocito Sand	6,881'
Dakota	7,466'
ETD	7,631'
Permit TD	7,700'

#### 2. OIL, GAS, WATER, OR OTHER MINERAL BEARING ZONES

EXPECTED GAS ZONES	<u>DEPTH FROM GL</u>
Fruitland Coal	3000'-3101'
Pictured Cliffs	3101-3141'
Mesa Verde	4816-5281'
Dakota	7466-7631'

EXPECTED WATER ZONES	DEPTH FROM GL
Ojo Alamo	2216'

Possible water zones will be protected by 7" intermediate casing and/or 4-1/2" production strings, 7" cemented to surface, and 4-1/2" casing cement tied in to 7".

#### 3. PRESSURE CONTROL BOP'S AND RELATED EQUIPMENT

Casing Head: 7" x 11" - 3000 psi W.P.

BOP Stack and Related Equipment: (See Attachment No. 1 &2).

#### RINCON UNIT WELL NO. 170R DRILLING PROGRAM – PAGE 2

One double-gate BOP with 4-1/2" and then 3-1/2" pipe and blind rams.

One choke manifold with adjustable and positive chokes.

An accumulator will hydraulically operate the BOP with 1-1/2 times the necessary capacity to close the rams and retain a minimum of 200psi above recharge. The remote unit will be located in the bottom "dog house" or on the ground between the "dog house" and the toolpushers trailer. A rotating head on top of the BOP stack will be utilized when necessary.

#### **Testing Procedure:**

The BOP and related equipment will be tested in accordance with the provisions of Onshore Oil and Gas Order No. 2.

BOP's will be operationally tested daily and each test will be logged in the IADC Daily Drilling Report.

#### Blooie Line:

The blooie line and related equipment will meet all requirements of Onshore Oil and Gas Order No. 2.

#### 4. CASING AND CEMENTINNG PROGRAM

1	+20 - 20 - 5	SURFA	CE CASING	(Spud Mud)	* *	
Age	<u>Depth</u>	Hole Size	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<b>Thread</b>
New	0-350'	12-1/4"	9-5/8"	32.3#	H-40	ST&C
	i situation de la company					
		INTERME	<u>DIATE CASI</u>	NG (FW Mud	2	
<u>Age</u>	<u>Depth</u>	Hole Size	<u>Size</u>	Weight	<u>Grade</u>	<b>Thread</b>
New	0-2626'	8-3/4"	7"	20#	K-55	ST&C
		DDANICT	ΓΙΟΝ CASINO	' (Ain Ductine	Δ	
					_	
<u>Age</u>	<u>Depth</u>	<u>Hole Siz</u> e	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Thread</u>
New	0-TD	6-1/4"	4-1/2"	11.6#	√ <b>1</b> /2-80	LT&C

#### **MINIMUM SAFETY FACTORS**

Collapse: 1.125 Tension: 1.8 Burst: 1.0

#### RINCON UNIT WELL NO. 170R DRILLING PROGRAM – PAGE 3

#### **Cementing Program**

- 1. The 9-5/8" surface casing will be cemented to the surface with 200 sacks of class "Type III" cement + 2% Cacl2 and ¼# per cello flake. 14.6ppg, 1.39 yield. Represents 137% excess.
- 2. The 7" intermediate casing will be cemented to surface with; 325 sacks of Premium Lite FM cement + 8% gel + 2% CACL2, + 6.25#/sack LCM + .25 lbs/sk Cello Flake @ 12.1 ppg, + 2.11 yield, Followed by 80 sacks class "Type III" cement + 2% CACL2 + ½ #/sack cello-flake. @ 14.6 ppg, 1.39 yield. This represents 33% excess.
- 3. The 4-1/2" production casing will be cemented and tied into the intermediate casing with 85 sacks Premium Lite HS FM + .3% R-3,+ 2%CACL2 + ½ #/sack CF + .3% CD-32 + 5#/SK LCM-1 + 1% FL-52, 11.9 ppg, 2.37 yield. Followed by 525 sks Premium Lite HS FM + .3% R-3, + 2% CACL2 + 1/4# /sk CF + .3% CD-32 + 5#/sk LCM-1 + 1% FL-52. 12.5 ppg, 2.02 yield. Represents 45% excess.

Casing hardware for the production string to include guide shoe, float collar, centralized shoe joint and next five joints. Centralizers across producing zones.

#### **Auxiliary Equipment**

A kelly cock will be used with handle available. A full opening safety valve will be used when Kelly is out of string. Rotating head while air drilling. Will have vacuum diversion on blooie line.

#### 5. **DRILLING FLUID PROGRAM**

<u>Depth</u>	<u>Type</u>	<u>Weight</u>	<u>Vis</u>	<u>W.L.</u>
0-350'	Spud Mud			N.C.
350-2626'	Fresh Water Gel	8.3-8.6	30-35	N.C
2626'-TD	Air	N.C.	N.C.	N.C.