

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1.a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. SF -079298		
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Rincon Unit		
2. NAME OF OPERATOR Pure Resources		7. UNIT AGREEMENT NAME Rincon Unit 177R		
3. ADDRESS AND TELEPHONE NO. P.O. Box 850, Bloomfield New Mexico		8. FARM OR LEASE NAME, WELL NO. Rincon Unit 177R		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirement) At surface 817' FSL and 2225' FW At proposed prod. zone Same as Surface		9. API WELL NO. 30 039 26977 n/a		
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 40 miles Southeast from Bloomfield NM		10. FIELD AND POOL OR WILDCAT Basin Dakota/ Mesa Verde		
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE FT (Also to nearest drg. Unit line, if any) 817'		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA N Sec. 13, T-27-N, R-7-W		
16. NO. OF ACRES IN LEASE 2045.08		12. COUNTY OR PARISH Rio Arriba		
17. NO. OF ACRES ASSIGNED TO THIS WELL 327.36 - W2MV 386,225/2 OK		13. STATE NM		
18. DISTANCE FROM PROPOSED* LOCATION TO NEAREST WELL, DRILLING, COMPLETED OR APPLIED FOR, ON THIS LEASE, FT. 1525'		20. ROTARY OR CABLE TOOLS Rotary		
19. PROPOSED DEPTH 7765'		22. APPROX. DATE WORK WILL START* ASAP		
21. ELEVATIONS (Show whether DF, RT, GR, 6731' GR				
23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	H-40 8-5/8"	32.3#	350'	285 SACKS "B" TOC @ SURFACE
8-3/4"	K-55 7"	20#	2777'	300 SACKS TYPE III TOC @ SURFACE
6-1/4"	N-80 4-1/2"	11.6#	7765'	SACKS 65/35 POZ TYPE III TOC TIED INTO 7" CAS

**"Expedited APD/ROW"**

Pure plans to drill the Rincon Unit 134R, 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)

DRILLING OPERATIONS AUTHORIZED ARE  
IN FULL COMPLIANCE WITH ATTACHED  
"GENERAL REQUIREMENTS".

This action is subject to technical and  
procedural 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 deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Mike C. Phillips TITLE San Juan Basin Area Foreman DATE 04/08/02  
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE 6/10/02

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the application to conduct operations thereon.  
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY David J. Mankiewicz TITLE \_\_\_\_\_ DATE JUN 10 2002

**\*See Instructions On Reverse Side**

Title 18 U.S.C. Section 1001, 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.

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

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

DISTRICT IV  
2040 South Pacheco, Santa Fe, NM 87505

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039 <b>26977</b>		*Pool Code 72319	*Pool Name Blanco Mesa Verde
*Property Code 26629	*Property Name RINCON UNIT		*Well Number 177R
*OGRID No. 189071	*Operator Name PURE RESOURCES		*Elevation 6731'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	13	27-N	7-W		817	SOUTH	2225	WEST	RIO ARRIBA

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
*Dedicated Acres <b>329.36</b>					*Joint or Infill		*Consolidation Code		*Order No.

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

SEC. CORNER FD. B.L.M. BC. 1955		N 06-32-55 E 5141.24'		13		LOT 4		LOT 3		LOT 2		LOT 1	
LOT 5		LOT 6		LOT 7		LOT 8		2225'		468'		664'	
SEC. CORNER FD. B.L.M. BC. 1955		S 86-26-32 E 5777.55'		LAT. = 36-34-12 N. LONG. = 107-31-44 W.		SEC. CORNER FD. B.L.M. BC. 1955		18		17		16	

**17 OPERATOR CERTIFICATION**  
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Mike Phillips  
Signature  
Mike Phillips  
Printed Name  
San Juan Basin Drilling/Production  
Title Foreman  
4/8/02  
Date

**18 SURVEYOR CERTIFICATION**  
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

3-6-2001  
Date of Survey  
Signature and Seal of Professional Surveyor  
8894  
Certificate Number

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

* API Number 30-039 26977		* Pool Code 71599	* Pool Name Basin Dakota
* Property Code 26629	* Property Name RINCON UNIT		* Well Number 177R
* OGRID No. 189071	* Operator Name PURE RESOURCES		* Elevation 6731'

## <sup>10</sup> Surface Location

UL or lot no. N	Section 13	Township 27-N	Range 7-W	Lot Idn	Feet from the 817	North/South line SOUTH	Feet from the 2225	East/West line WEST	County RIO ARRIBA
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<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
13 Dedicated Acres 346.27			12 Joint or Infill		14 Consolidation Code		15 Order No.		

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

OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE BUREAU OF LAND MANAGEMENT

SEC. CORNER  
FD. B.L.M.  
BC. 1955



N 06-32-55 E  
514.24'

LOT 4                      LOT 3                      LOT 2                      LOT 1

SEC. CORNER  
FD. B.L.M.  
BC. 1955

LOT 5                      LOT 6                      LOT 7                      LOT 8

S 86-26-32 E  
5777.55'

**17 OPERATOR CERTIFICATION**

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

76 Mike Phillips

Signature                      Mike Phillips

Printed Name

San Juan Basin Drilling/Production

Title                      Foreman

4/8/02

Date

**18 SURVEYOR CERTIFICATION**

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3-6-2002

Date of Survey

[Signature]

Signature and Seal of Professional Surveyor

8894

Certificate Number

**PURE RESOURCES**  
**RINCON UNIT WELL NO. 177R**  
**817' FSL, 2225' FWL, SEC. 13, T-27-N, R-7-W**

**8 POINT DRILLING PLAN**

1. **ESTIMATED FORMATION TOPS**

<b><u>FORMATION NAME</u></b>	<b><u>DEPTH FROM GL</u></b>
San Jose	Surface
Ojo Alamo	2,657'
Kirtland Shale	2,757'
Pictured Cliffs	3,257'
Cliff House	4,957'
Point Lookout	5,502'
Mancos	5,902'
Tocito Sand	7,067'
Dakota	7,662'
ETD	7,762'
Permit TD	7,765'

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

<b><u>EXPECTED GAS ZONES</u></b>	<b><u>DEPTH FROM GL</u></b>
Fruitland Coal	3207'-3257'
Pictured Cliffs	3257-3364'
Mesa Verde	4957-5902
Dakota	7662-7765'

<b><u>EXPECTED WATER ZONES</u></b>	<b><u>DEPTH FROM GL</u></b>
Ojo Alamo	2657'

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. 177R**  
**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.

Bloolie Line:

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

4. **CASING AND CEMENTINNG PROGRAM**

**SURFACE CASING (*Spud Mud*)**

<u>Age</u>	<u>Depth</u>	<u>Hole Size</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Thread</u>
New	0-350’	12-1/4”	9-5/8”	32.3#	H-40	ST&C

**INTERMEDIATE CASING (*FW Mud*)**

<u>Age</u>	<u>Depth</u>	<u>Hole Size</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Thread</u>
New	0-2777’	8-3/4”	7”	20#	K-55	ST&C

**PRODUCTION CASING (*Air Dusting*)**

<u>Age</u>	<u>Depth</u>	<u>Hole Size</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Thread</u>
New	0-TD	6-1/4”	4-1/2”	11.6#	L-80	LT&C

**MINIMUM SAFETY FACTORS**

Collapse: 1.125

Tension: 1.8

Burst: 1.0

# **RINCON UNIT WELL NO. 177R**

## **DRILLING PROGRAM – PAGE 3**

### **Cementing Program**

1. The 9-5/8” surface casing will be cemented to the surface with 285 sacks of class “B” cement + 2 Cacl2 and ¼# per cello flake. 14.5ppg
2. The 7” intermediate casing will be cemented to surface with; 300 sacks of type III (35:65) Poz cement + 8% gel + 2% CACL2, + 6.25#/sack Gilsonite, .25 lbs/sk Cello Flake @ 12.1 ppg , Followed by 50 sacks class “B” cement + 2% CACL2 + ¼ #/sack cello-flake. @ 14.5 ppg.
3. The 4-1/2” production casing will be cemented and tied into the intermediate casing with 600 sacks 65/35 Poz Type III cement + ¼ #/sack CF, 6% gel, 10#/sack CSE + 3% KCL, FL-62 + .2% CD-32, @ 12.5 ppg.

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.
350-2777'	Fresh Water Gel	8.3-8.6	30-35	N.C
2777'-TD	Air	N.C.	N.C.	N.C.

PURE RESOURCES  
RINCON UNIT No. 177R

SW/4 SEC. 13, T-27-N, R-7-W, N.M.P.M.

RIO ARriba COUNTY, NEW MEXICO

817' FSL 2225' FWL

