

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

## 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-079360	
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 136P	
3. ADDRESS AND TELEPHONE NO. P.O. Box 850, Bloomfield New Mexico				8. FARM OR LEASE NAME, WELL NO. Rincon Unit 136P	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirement) At surface 1850' FNL and 2350' FWL At proposed prod. zone Same as Surface				9. API WELL NO. 3003927326	
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 drlg. Unit line, if any) 2700'		16. NO. OF ACRES IN LEASE 2645.09		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA F Sec. 23, T-27-N, R-7-W	
18. DISTANCE FROM PROPOSED* LOCATION TO NEAREST WELL, DRILLING, COMPLETED OR APPLIED FOR, ON THIS LEASE, FT. 1600'		19. PROPOSED DEPTH 7700'		12. COUNTY OR PARISH Rio Arriba	
21. ELEVATIONS (Show whether DF, RT, GR,) 6605'				13. STATE NM	
22. APPROX. DATE WORK WILL START* ASAP					
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 9-5/8"	32.3#	350'	200 SACKS "B" TOC @ SURFACE	
8-3/4"	K-55 7"	20#	2520'	405 SACKS TYPE III TOC @ SURFACE	
6-1/4"	N-80 4-1/2"	11.6#	7700'	610 SACKS 65/35 POZ TYPE III TOC TIED INTO	
7" casing					

"Expedited APD/ROW"

Pure plans to drill the Rincon Unit 136P, 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  
SUBJECT TO 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 Drlg Prod Foreman DATE 2/17/03

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

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 /s/ David J. Mankiewicz TITLE \_\_\_\_\_ DATE MAR 18 2003

\*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.

NMOCD

DISTRICT I  
1626 N. French Dr., Hobbs, N.M. 88240

DISTRICT II  
611 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

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102  
Revised August 15, 2000

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

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-039-27326		2 Pool Code 71599		3 Pool Name Basin Dakota	
4 Property Code 26629		5 Property Name RINCON UNIT			6 Well Number 136P
7 OGRID No. 189071		8 Operator Name PURE RESOURCES			9 Elevation 6605'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot 14n	Feet from the	North/South line	Feet from the	East/West line	County
F	23	27-N	7-W		1850	NORTH	2350	WEST	RIO ARRIBA

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 14n	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acres			13 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

16

SEC. COR. FD 1 1/2" AC LS# 8894, 2000		N 87-16-37 E 2487.79'(M)		QUARTER COR. FD 3 1/4" BC 1955 BLM	
S 00-00-10 E 2773.85'(M)		1850'		1850'	
PURE - RINCON UNIT No. 136E		463'		463'	
2350'		1116'		1116'	
LAT. = 36°33'46" N.		LONG. = 107°32'44" W.		MAR 2003	
QUARTER COR. FD 3 1/4" BC 1955 BLM		LOT 2		LOT 1	
070 Farmington, NM		LOT 3		LOT 4	
2003 FEB 19 PM 2:02		RECEIVED			

17 OPERATOR CERTIFICATION

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

Signature

Mike Phillips

Printed Name  
San Juan Basin Drilling/  
Production Foreman

Title

Feb. 11th, 2003

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.

OCT. DAVID A. JOHNS

Date of Survey

Signature and Seal of Professional Surveyor:

14827

Certificate Number

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

DISTRICT II  
611 South First, Artesia, N.M. 88210

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OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-27326		Pool Code 72319	Pool Name Blanco Mesa Verde
Property Code 26629	Property Name RINCON UNIT		Well Number 136P
GRID No. 189071	Operator Name PURE RESOURCES		Elevation 6605'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	23	27-N	7-W		1850	NORTH	2350	WEST	RIO ARRIBA

11 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 320					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

16

SEC. COR. FD 1 1/2" AC LS# 8894, 2000	N 87-16-37 E 2467.79'(M)	QUARTER COR. FD 3 1/4" BC 1955 BLM
1850'	PURE - RINCON UNIT No. 136E	
2350'	1118'	LAT. = 36°33'46" N. LONG. = 107°32'44" W.
483'	118'	
925'		
LOT 2	LOT 1	
LOT 3	LOT 4	

17 OPERATOR CERTIFICATION

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

Signature

Mike Phillips

Printed Name  
San Juan Basin Drilling/  
Production Foreman

Title

Feb. 11th, 2003

Date

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me or under my supervision, and that the same is true  
and correct to the best of my belief.

Date of Survey

Signature and Seal of Professional Surveyor

Certificate Number

**PURE RESOURCES**  
**RINCON UNIT WELL NO. 136P**  
**1850' FNL, 2350' FWL, SEC. 23, T-27-N, R-7-W**  
**Rio Arriba County NM**

**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	2,095'
Kirtland Shale	2,480'
Pictured Cliffs	3,090'
Cliff House	4,780'
Point Lookout	5,340'
Mancos	5,720'
Tocito Sand	6,890'
Dakota	7,485'
ETD	7,645'
Permit TD	7,700'

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	3000'-3090'
Pictured Cliffs	3090-3140'
Mesa Verde	4780-5720
Dakota	7485-7645

<b><u>EXPECTED WATER ZONES</u></b>	<b><u>DEPTH FROM GL</u></b>
Ojo Alamo	2095'

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. 136P**  
**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**

**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	0-2520'	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#	N <del>X</del> -80	LT&C

**MINIMUM SAFETY FACTORS**

Collapse: 1.125

Tension: 1.8

Burst: 1.0

**RINCON UNIT WELL NO. 136P**  
**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% Cacl<sub>2</sub> 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% CACL<sub>2</sub>, + 6.25#/sack LCM + .25 lbs/sk Cello Flake @ 12.1 ppg, + 2.11 yield, Followed by 80 sacks class "Type III" cement + 2% CACL<sub>2</sub> + ¼ #/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% CACL<sub>2</sub> + ¼ #/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% CACL<sub>2</sub> + 1/4# /sk CF + .3% CD-32 + 5#/sk LCM-1 + 1% FL-52. 12.5 ppg, 2.02 yield. Represents 45% excess. *- 100' min overlap*

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.
350-2520'	Fresh Water Gel	8.3-8.6	30-35	N.C.
2520'-TD	Air	N.C.	N.C.	N.C.

**RINCON UNIT WELL NO. 136P  
DRILLING PROGRAM – PAGE 4**

**6. CORING, TESTING & LOGGING PROGRAM**

DST's: None Planned.

Logging: Cased hole GR/Dual Burst Thermal Decay

Cores: None planned.

Completion: During completion, the drilling rig will be removed and a completion rig will be moved in and BOP's of a similar pressure rating will be used. The Dakota and Mesa Verde will be selectively perforated and individually hydraulically stimulated. The wells will be commingled with 2-3/8" production string. A "Well Completion or Re-completion Report and Log" (Form 3160-4) will be submitted within 30 days after completion of the well per 43 CFR 3164. Two copies of all logs geologic summaries, sample descriptions, and all other data obtained during the drilling, workover, and completion operations will be filed with form 3160-4.

**7. ABNORMAL PRESSURES, TEMPERATURES, AND POTENTIAL HAZARDS**

*Pressure* Due to numerous wells drilled in the unit, no above normal pressures zones are anticipated.

*Temperature* No above normal temperatures are anticipated.

*Hydrogen Sulfide* No H2S is anticipated.

**8. ADDITIONAL INFORMATION:**

Starting Date

Road and location work will begin as soon as approval has been received from the BLM, Drilling should commence immediately upon approval of the APD, weather permitting. The BLM will be notified 48 hours before dirt work begins and 24 hours before drilling operations begin.

Duration of Operations

Drilling will be approximately 8 days. Completion will be approximately 10 days.