

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1. a. TYPE OF WORK

DRILL ☒DEEPEN ☐

b. TYPE OF WELL

OIL WELL ☐GAS WELL ☒OTHER ☐SINGLE ZONE ☐MULTIPLE ZONE ☒

2. NAME OF OPERATOR

Pure Resources

3. ADDRESS AND TELEPHONE NO.

P.O. Box 850, Bloomfield New Mexico

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirement)\*

At surface

1723' FNL and 59' FEL

At proposed prod. zone

Same as Surface

5. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

40 miles Southeast from Bloomfield NM.

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE FT (Also to  
nearest drg. Unit line, if any)

1723'

16. NO. OF ACRES IN LEASE

2645.09

17. NO. OF ACRES ASSIGNED TO  
THIS WELL

320 N/2

18. DISTANCE FROM PROPOSED\* LOCATION TO  
NEAREST WELL, DRILLING, COMPLETED  
OR APPLIED FOR, ON THIS LEASE, FT.

1100'

19. PROPOSED DEPTH

7623' 7720 ft

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR,

6618'

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'	285 SACKS "B" TOC @ SURFACE
8-3/4"	K-55 7"	20#	2840' 2745' 15'	325 SACKS TYPE III TOC @ SURFACE
6-1/4"	N-80 4-1/2"	11.6#	7720' 7600'	600 SACKS 65/35 POZ TYPE III TOC TIED INTO
				7" casing to 2740' min

"Expedited APD/ROW"

Pure plans to drill the Rincon Unit 161R, 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)

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

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

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

10/1/02

(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

TITLE

DATE

**\*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.

**NMOC**

DISTRICT III  
811 South Artesia, N.M. 88210

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

DISTRICT III  
1000 Rio Bravo Astec, N.M. 87410

# OIL CONSERVATION DIVISION

2040 South Pacheco  
Santa Fe, NM 87505

DISTRICT IV  
2040 South Pacheco Santa Fe, NM 87505

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039- <b>27080</b>		*Pool Code 71599	*Pool Name Basin Dakota
*Property Code 26629	*Property Name RINCON UNIT		*Well Number 161R
*OGRID No. 189071	*Operator Name PURE RESOURCES		*Elevation 6618'

### 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
H	17	27-N	6-W		1723'	NORTH	59'	EAST	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 <b>3.20</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

<p>16</p> <p>FD B.L.M. BC 1955</p> <p>S 88-34-07 W 5245.82' (R)</p> <p>LAT. 36°34'36"N LONG. 107°28'53"W</p>	<p>WELL HEAD * RINCON UNIT # 161</p>	<p>FD B.L.M. BC 1955</p> <p>S 00-52-38 W 2627.17' (R)</p> <p>1723'</p> <p>1252'</p> <p>59'</p> <p>904'</p> <p>FD B.L.M. BC 1955</p>	<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Mike Phillips</i></p> <p>Signature</p> <p>Mike Phillips</p> <p>Printed Name</p> <p>San Juan Basin Drilling/ Production Foreman</p> <p>Title</p> <p>Oct. 3rd, 2002</p> <p>Date</p>
			<p>18 SURVEYOR CERTIFICATION</p> <p>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.</p> <p><i>MAURICIO A. JOHNSON</i></p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor</p> <p>14821</p> <p>Certificate Number</p>

DISTRICT  
811 South Artesia, N.M. 88210DISTRICT II  
1000 Rio Arriba, L. Artes, N.M. 87410DISTRICT IV  
2040 South Pacheco, Santa Fe, NM 87505OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-039- <b>22080</b>	<sup>2</sup> Pool Code 72319	<sup>3</sup> Pool Name Blanco Mesa Verde
<sup>4</sup> Property Code 26629	<sup>5</sup> Property Name RINCON UNIT	<sup>6</sup> Well Number 161R
<sup>7</sup> OGED No. 189071	<sup>8</sup> Operator Name PURE RESOURCES	<sup>9</sup> Elevation 6618'

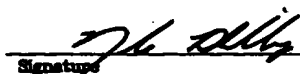

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	17	27-N	6-W		1723'	NORTH	59'	EAST	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
<sup>12</sup> Dedicated Acres <b>320</b>			<sup>13</sup> Joint or Infill		<sup>14</sup> Consolidation Code		<sup>15</sup> 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

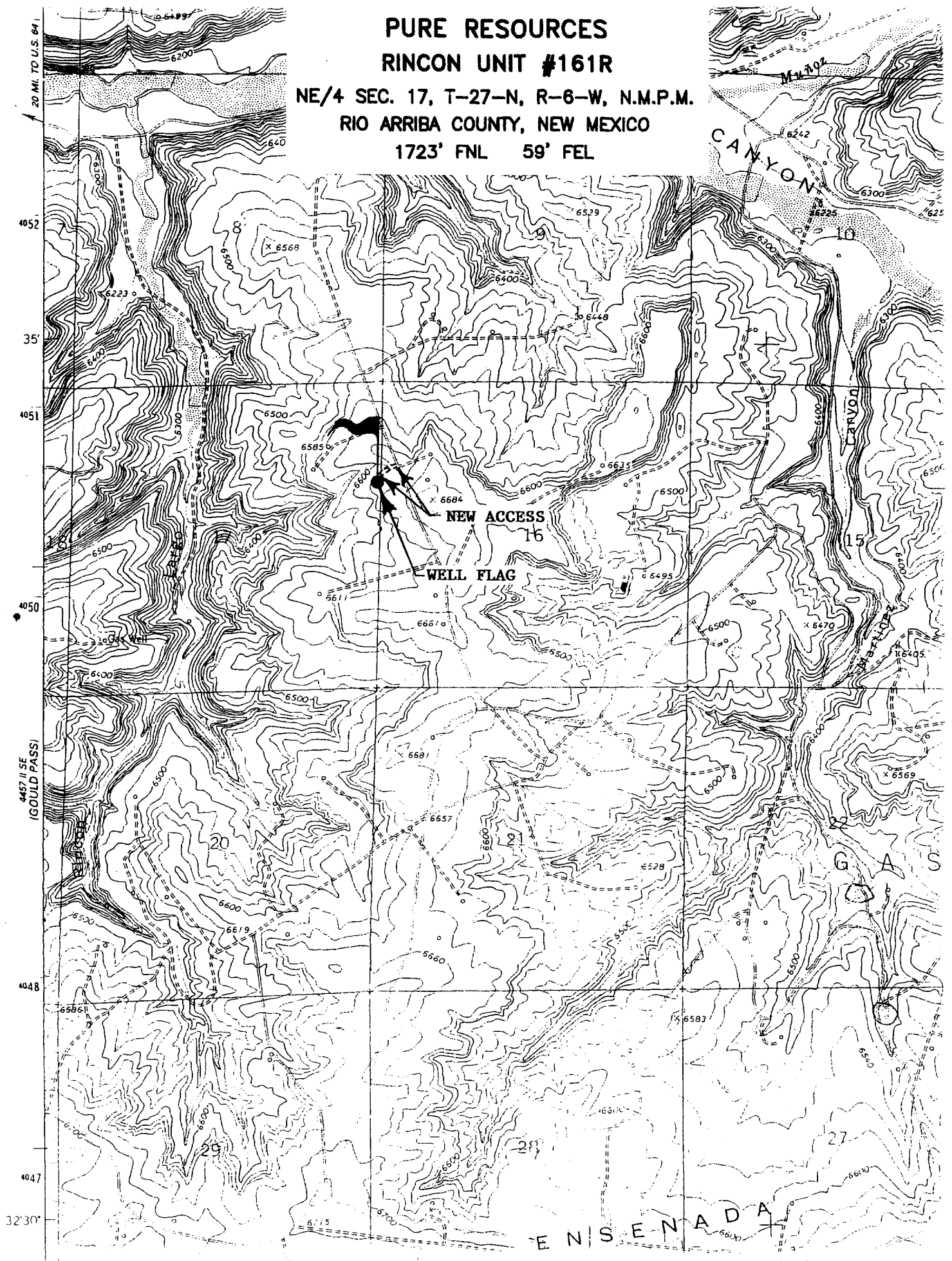
<sup>16</sup> FD B.L.M. BC 1955	S 88-34-07 W 5245.82' (R)  LAT. 36°34'36"N LONG. 107°28'53"W	FD B.L.M. BC 1955  S 00-52-38 W 2627.17' (R)	<sup>17</sup> OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature Mike Phillips
	WELL HEAD * RINCON UNIT # 161	1252'  59' 904'	Printed Name San Juan Basin Drilling/ Production Foreman Title Oct. 3rd, 2002 Date
		FD B.L.M. BC 1955	<sup>18</sup> 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.  Date of Survey Signature and Seal of Professional Surveyor:
65-6 W E-100 202 2002 OCT - 3			1482A CERTIFICATE NUMBER

PURE RESOURCES  
RINCON UNIT #161R

NE/4 SEC. 17, T-27-N, R-6-W, N.M.P.M.

RIO ARriba COUNTY, NEW MEXICO

1723' FNL 59' FEL



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

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

**PURE RESOURCES**

3. Address and Telephone No.

**P.O. BOX 850 - BLOOMFIELD, NM 87413**

4. Location of Well (Footage, Sec., T., R., or Survey Description)

**1723' FNL & 59' FEL**

**"H" Sec. 17 T27N-R06W**

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

5. Lease Designation and Serial No.

**NM 013654**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement Designation

**RINCON UNIT**

8. Well Name and No.

**Rincon Unit 161R**

9. API Well No.

**30-039-**

10. Field and Pool, or Exploration Area

**Basin Dakota/Blanco MV**

11. County or Parish, State

**Rio Arriba, NM**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other _____	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completions or Recompletions Reports and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled give subsurface locations and measured and true vertical depth for all markers and zones pertinent to this work.)\*

**This Sundry is to correct Tops, Cement Volumes and Casing points**

14. Signed *Mike Phillips* Title SAN JUAN BASIN DRILLING/PRODUCTION FOREMAN Date 11/04/02  
(This space for Federal or State office use)  
Approved by *David J. Manikiewicz* Title \_\_\_\_\_ Date NOV - 8 2002  
Conditions of approval, if any: \_\_\_\_\_

Title 18 U.S.C. Sections 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States of false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*See Instructions on Reverse Side**

**NMOCD**

**PURE RESOURCES  
RINCON UNIT WELL NO. 161R  
1723' FNL, 59' FEL, SEC. 17, T-27-N, R-6-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	2,408'
Kirtland Shale	2,740'
Pictured Cliffs	3,238'
Cliff House	4,936'
Point Lookout	5,423'
Mancos	5,895'
Tocito Sand	7,023'
Dakota	7,588'
ETD	7,710'
Permit TD	7,720'

**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	3143'-3238'
Pictured Cliffs	3238-3358'
Mesa Verde	4936-5895
Dakota	7588-7720'

<b><u>EXPECTED WATER ZONES</u></b>	<b><u>DEPTH FROM GL</u></b>
Ojo Alamo	2408'

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).

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**RINCON UNIT WELL NO. 161R**  
**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	0-2840'	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

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**RINCON UNIT WELL NO. 161R**  
**DRILLING PROGRAM – PAGE 3**

**Cementing Program**

1. The 9-5/8" surface casing will be cemented to the surface with 225 sacks of class "Type III" cement + 2% Cacl<sub>2</sub> and ¼# per cello flake. 14.6ppg, 1.39 yield. Represents 114% 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.

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.
350-2840'	Fresh Water Gel	8.3-8.6	30-35	N.C
2840'-TD	Air	N.C.	N.C.	N.C.