



*Enclosed* cc

# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**  
Governor

May 12, 2004

**Joanna Prukop**  
Cabinet Secretary  
Acting Director  
Oil Conservation Division

**Energen Resources Corporation**  
2198 Bloomfield Highway  
Farmington, New Mexico 87401

**Attention: Richard Corcoran**  
**District Landman**

**Re:** *Administrative application for an exception to the well location provisions of the Basin-Fruitland Coal (Gas) Pool (71629) for Energen Resources Corporation's proposed Carracas "36A" Well No. 1-R to be drilled as a replacement well for Energen Resources Corporation's Carracas "36A" Well No. 1 (API No. 30-039-26483) located in Unit "A" of Section 36, Township 32 North, Range 5 West, NMPM, Rio Arriba County, New Mexico, at an unorthodox coal gas well location within the E/2 of Section 36, Township 32 North, Range 5 West, NMPM, Rio Arriba County, New Mexico, being a standard 320-acre stand-up gas spacing unit for the Basin-Fruitland Coal (Gas) Pool, 365 feet from the North line and 740 feet from the East line (Unit P) of Section 36 (administrative application reference No. pMES0-413331522).*

Dear Mr. Corcoran:

My review of your application filed with the Division in Santa Fe on April 13, 2004 indicates that the information provided in your application is not sufficient to process an administrative order at this time. It appears that your application may either be incomplete with respect to notice or possibly not even necessary. Please refer to the Rules 7 (a) and (b) of the "Special Rules and Regulations for the Basin-Fruitland Coal (Gas) Pool," as promulgated by Division Order No. R-8768, as amended (see copy attached) and Division Rule 1207.A (2). Division Rule 1207.A (2) (a) states:

**"(2) Unorthodox Well Locations:**

- (a) Definition: "affected persons" are the following persons owning interests in the adjoining spacing units:**
  - (i) the division-designated operator;**
  - (ii) in the absence of an operator, any lessee whose interest is evidenced by a written document of conveyance either of record or known to the applicant as of the date the application is filed; and**
  - (iii) in the absence of an operator or lessee, any mineral interest owner whose interest is evidenced by a written document of conveyance either of record or known to the applicant as of the date the application was filed.**

*In the event the operator of the proposed unorthodox well is also the operator of an existing adjoining spacing unit and ownership is not common between the adjoining spacing unit and the spacing unit containing the proposed unorthodox well, then "affected persons" include all working interest owners in that spacing unit".*

The two offsetting Basin-Fruitland coal spacing units that will be affected by the proposed unorthodox coal gas well location are Energen Resources Corporation's:

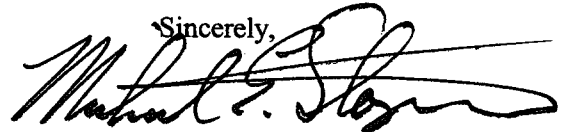
- (i) E/2 of Section 25, Township 32 North, Range 5 West, NMPM, Rio Arriba County, New Mexico, which is currently dedicated to the Carracas Unit "25-A" Well No. 16 (API No. 30-039-26476), located at an unorthodox coal gas well location (approved by Division Administrative Order NSL-4484, dated July 10, 2000) 585 feet from the South line and 710 feet from the East line (Unit P) of Section 25; and
- (ii) W/2 equivalent of Section 31, Township 32 North, Range 4 West, NMPM, Rio Arriba County, New Mexico, which is currently dedicated to the Carracas Unit "31-B" Well No. 5 (API No. 30-039-24417), located at a standard coal gas well location, but unorthodox at the time it was drilled (spud date August 31, 1990) and approved by Division Order No. R-8844, issued in Case No. 9559 on January 17, 1989, 1770 feet from the North line and 830 feet from the West line (Lot 2/Unit E) of Section 31.

From the information provided no conclusion could be made that either the provisions of Rule 7 (a) (2) apply in this instance or that Energen Resources Corporation controls 100 percent of the working interest in both of these offsetting coal gas spacing units.

Your application for administrative approval for the above-described unorthodox replacement coal gas well location is deemed incomplete; is hereby **withdrawn** and is being returned to you at this time.

If you find that it is necessary to re-file this application with me, please explain why the Carracas Unit "36A" Well No. 1 needs replacing. Thank you.

Sincerely,



Michael E. Stogner  
Chief Hearing Officer/Engineer

cc: New Mexico Oil Conservation Division – Aztec  
U. S. Bureau of Land Management – Farmington  
J. Scott Hall, Legal Counsel for Energen Resources Corporation – Santa Fe

PMESD-413331522

DATE IN 4/13/2004	SUSPENSE 5/3/2004	ENGINEER MS	LOGGED ms	RECEIVED
-------------------	-------------------	-------------	-----------	----------

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION  
- Engineering Bureau -

APR 13 2004

Carracas 36A #1R

**ADMINISTRATIVE APPLICATION COVERSHEET** DIVISION

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

**Application Acronyms:**

- ☐ [NSP-Non-Standard Proration Unit]    ☐ [NSL-Non-Standard Location]  
☐ [DD-Directional Drilling]    ☐ [SD-Simultaneous Dedication]  
☐ [DHC-Downhole Commingling]    ☐ [CTB-Lease Commingling]    ☐ [PLC-Pool/Lease Commingling]  
☐ [PC-Pool Commingling]    ☐ [OLS - Off-Lease Storage]    ☐ [OLM-Off-Lease Measurement]  
☐ [WFX-Waterflood Expansion]    ☐ [PMX-Pressure Maintenance Expansion]  
☐ [SWD-Salt Water Disposal]    ☐ [IPI-Injection Pressure Increase]  
☐ [EOR-Qualified Enhanced Oil Recovery Certification]    ☐ [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

- ☐ [A] Location - Spacing Unit - Directional Drilling  
☒ [X] NSL    ☐ [ ] NSP    ☐ [ ] DD    ☐ [ ] SD

Check One Only for [B] and [C]

- ☐ [B] Commingling - Storage - Measurement  
☐ [ ] DHC    ☐ [ ] CTB    ☐ [ ] PLC    ☐ [ ] PC    ☐ [ ] OLS    ☐ [ ] OLM

- ☐ [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
☐ [ ] WFX    ☐ [ ] PMX    ☐ [ ] SWD    ☐ [ ] IPI    ☐ [ ] EOR    ☐ [ ] PPR

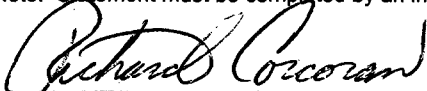
[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or ☐ Does Not Apply

- ☐ [A] ☐ [ ] Working, Royalty or Overriding Royalty Interest Owners  
☐ [B] ☒ [X] Offset Operators, Leaseholders or Surface Owner  
☐ [C] ☐ [ ] Application is One Which Requires Published Legal Notice  
☐ [D] ☐ [ ] Notification and/or Concurrent Approval by BLM or SLO  
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office  
☐ [E] ☐ [ ] For all of the above, Proof of Notification or Publication is Attached, and/or,  
☐ [F] ☐ [ ] Waivers are Attached

[3] **INFORMATION / DATA SUBMITTED IS COMPLETE** - Statement of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

Richard Corcoran		District Landman	4/08/04
Print or Type Name	Signature	Title	Date



April 8, 2004

New Mexico Oil Conservation Division  
Attn: Michael E. Stogner  
1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505

RE: Administrative Approval of Unorthodox Location  
Carracas 36A #1R  
365' FNL & 740' FEL  
Section 36, T32N, R5W  
Rio Arriba County, New Mexico

Dear Mr. Stogner:

Energen Resources Corporation (Energen) hereby requests Administrative Approval for an Unorthodox Location of its proposed Carracas 36A #1R Fruitland Coal well under the provisions of New Mexico Oil Conservation Division (NMOCD) Order R-8768.

The well is located 365' FNL & 740' FEL of Section 36-T32N-R5W, Rio Arriba County, New Mexico and dedicated to a 320 acre gas spacing unit consisting of the E/2 of said section 36, in the Basin Fruitland Coal gas pool.

This well is closer than 660 feet to the northern boundary of the proration unit, causing a non-standard location. This well is being proposed on the same well pad as the Carracas 36A #1, due to rough topography and the Forest Service request to minimize additional roads in the Carson National Forest.

A copy of this application is being sent to all offset operators by certified mail-return receipt request with a request that they furnish your office in Santa Fe a Waiver of Objection within 20 days of receipt of this application.

Attached is a well location plat showing dedicated acreage (C-102), a map showing all offsetting operators and a topographic map.

Your favorable consideration of this request would be appreciated.

Sincerely,

A handwritten signature in cursive script, reading "Richard P. Corcoran".

Richard P. Corcoran  
District Landman

District I  
PO Box 1980, Hobbs, NM 88241-1980

District II  
PO Drawer DD, Artesia, NM 88211-0719

District III  
1000 Rio Brazos Rd., Aztec, NM 87410

District IV  
PO Box 2088, Santa Fe, NM 87504-2088

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

Revised February 21, 1994  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number		*Pool Code 71629	*Pool Name BASIN FRUITLAND COAL
*Property Code	*Property Name CARRACAS CANYON UNIT		*Well Number 36A-1R
*GRID No. 162928	*Operator Name ENERGEN RESOURCES CORPORATION		*Elevation 6975'

<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
A	36	32N	5W		365	NORTH	740	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 320.0 Acres - (E/2)					<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.		

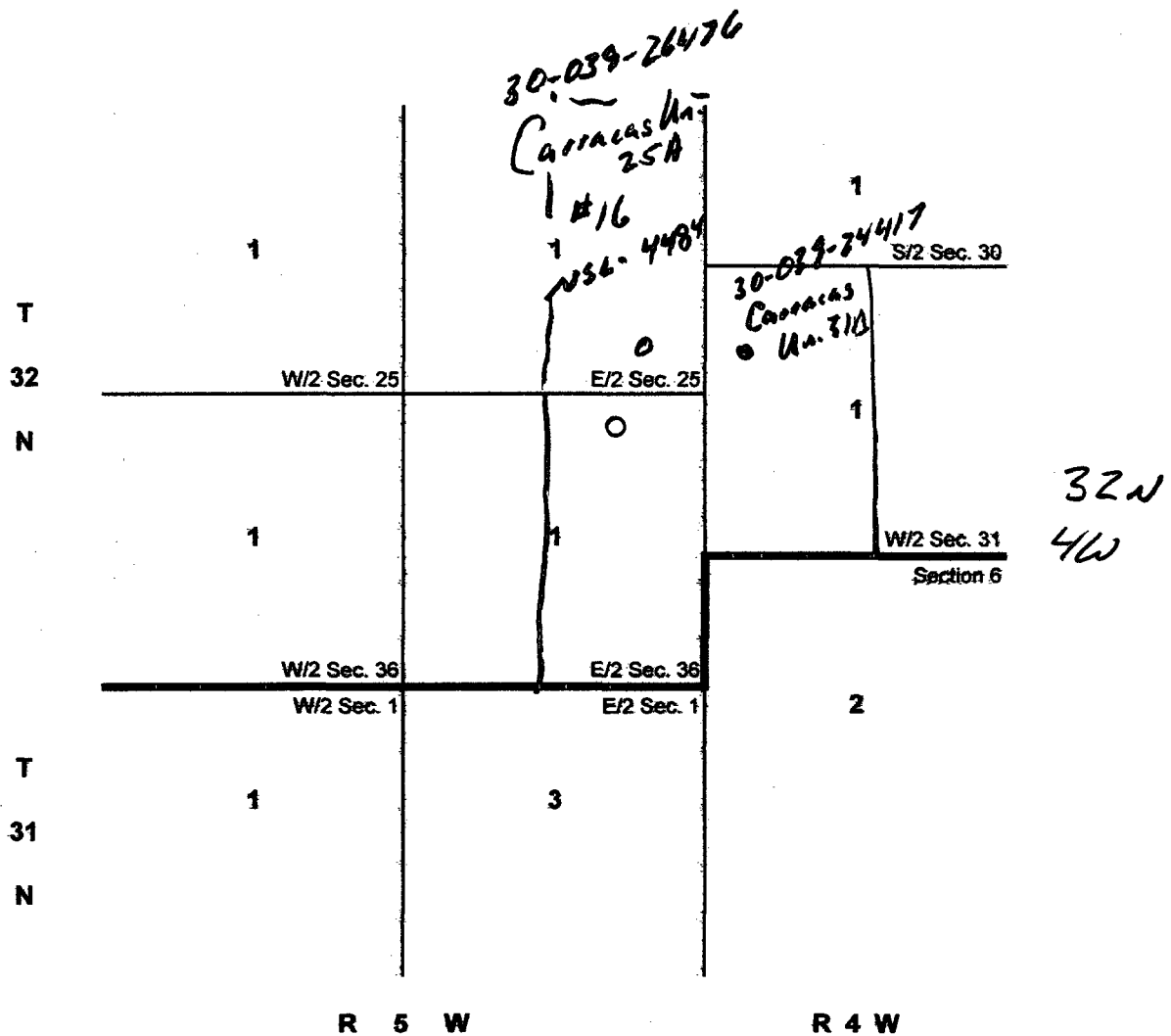
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<div><p><sup>16</sup></p><p>5280.66'</p><p>365'</p><p>740'</p><p>#1</p><p>5280.00'</p><p>5280.00'</p><p>36</p><p>5280.00'</p></div>	<p><sup>17</sup> 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>Don Graham</i></p> <p>Signature</p> <p>Don Graham</p> <p>Printed Name</p> <p>Production Superintendant</p> <p>Title</p> <p>6-12-03</p> <p>Date</p>
	<p><sup>18</sup> 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>Survey Date: APRIL 17, 2003</p> <p>Signature and Seal of Professional Surveyor</p> <div><p>JASON C. EDWARDS</p><p>NEW MEXICO</p><p>15269</p><p>REGISTERED PROFESSIONAL SURVEYOR</p></div> <p>JASON C. EDWARDS</p> <p>Certificate Number 15269</p>

Standard 640-ac Section

Carracas 36A #1R  
Basin Fruitland Coal  
365' FNL, 740' FEL, Section 36, T-32-N, R-5-W  
Rio Arriba County, New Mexico

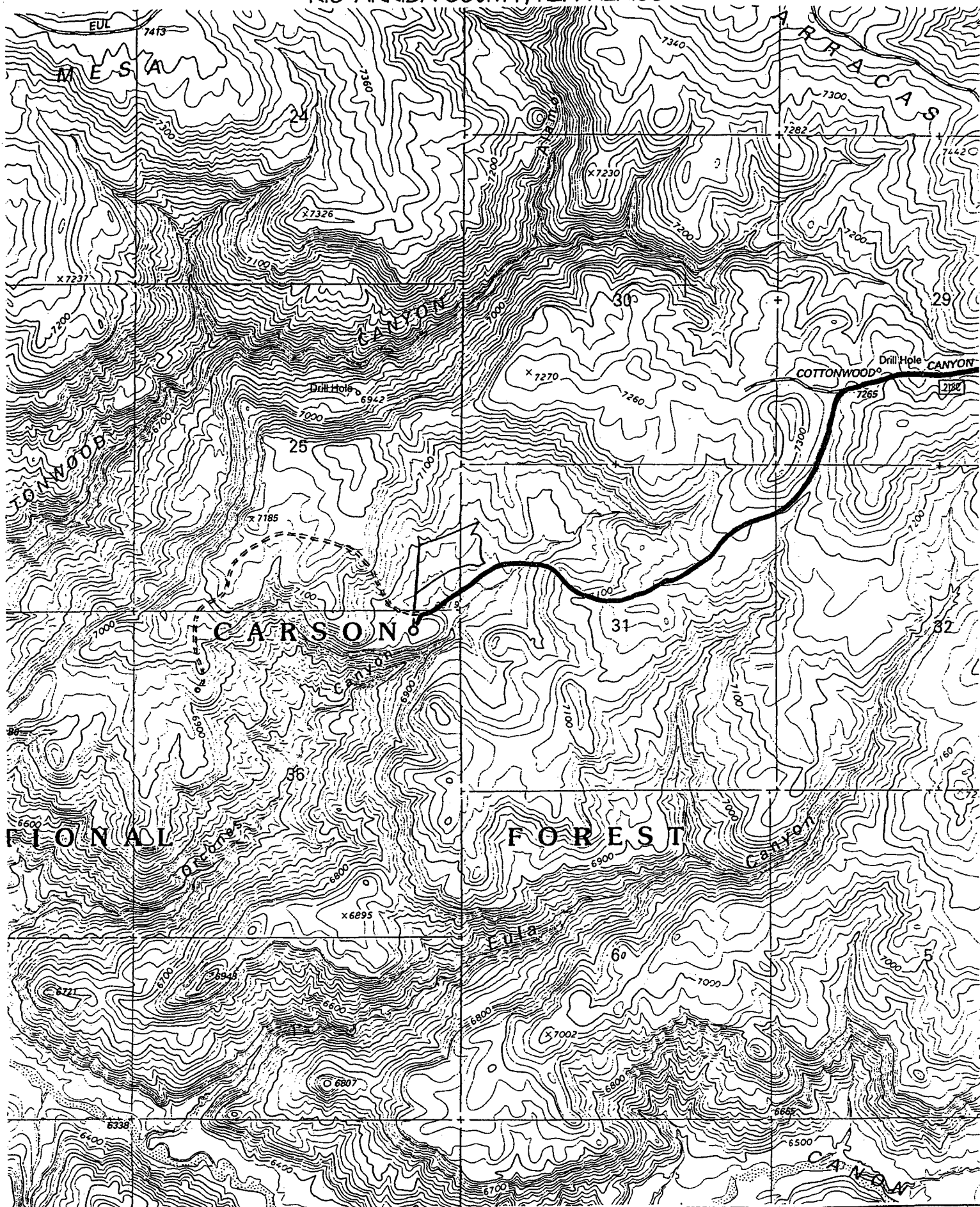
Offset Operator Plat



- 1 Energen Resources
- 2 Williams Production Company
- 3 Open - USA

ENERGEN RESOURCES CORPORATION CARRACAS UNIT 36A #1R

365' FNL & 740' FEL, SECTION 36, T32N, R5W, N.M.P.M.  
RIO ARriba COUNTY, NEW MEXICO



CMD : ONGARD 05/12/04 14:17:20  
 OGIWCM INQUIRE WELL COMPLETIONS OGOMES -TPER

API Well No : 30 39 26483 Eff Date : 06-01-2003 WC Status : A  
 Pool Idn : 71629 BASIN FRUITLAND COAL (GAS)  
 OGRID Idn : 162928 ENERGEN RESOURCES CORPORATION  
 Prop Idn : 32971 CARRACAS UNIT 36 A

Well No : 001  
 GL Elevation: 6970

U/L Sec		Township		Range		North/South		East/West		Prop/Act (P/A)	
B.H. Locn	: A	36	32N	05W	FTG	365	F N	FTG	787	F E	P
Lot Identifier:											
Dedicated Acre:	320.00										
Lease Type	: F										
Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :											

M0025: Enter PF keys to scroll

PF01 HELP	PF02	PF03 EXIT	PF04 GOTO	PF05	PF06
PF07	PF08	PF09	PF10 NEXT-WC	PF11 HISTORY	PF12 NXTREC



CMD : ONGARD  
 OGGACRE C102-DEDICATE ACREAGE

05/12/04 14:18:05  
 OGOMES -TPER  
 Page No : 1

API Well No : 30 39 26483 Eff Date : 10-09-2000  
 Pool Idn : 71629 BASIN FRUITLAND COAL (GAS)  
 Prop Idn : 32971 CARRACAS UNIT 36 A  
 Spacing Unit : 53705 OCD Order :  
 Sect/Twp/Rng : 36 32N 05W Acreage : 320.00 Revised C102? (Y/N) :  
 Dedicated Land: Simultaneous Dedication:

S	Base U/L	Sec	Twp	Rng	Acreage	L/W	Ownership	Lot	Idn
A	36	32N	05W	40.00	N	FD			
B	36	32N	05W	40.00	N	FD			
G	36	32N	05W	40.00	N	FD			
H	36	32N	05W	40.00	N	FD			
I	36	32N	05W	40.00	N	FD			
J	36	32N	05W	40.00	N	FD			
O	36	32N	05W	40.00	N	FD			
P	36	32N	05W	40.00	N	FD			

E0005: Enter data to modify or PF keys to scroll

PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06 CONFIRM  
 PF07 BKWD PF08 FWD PF09 PF10 LAND PF11 NXTSEC PF12 RECONF

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR DEEPEN

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐

## b. TYPE OF WELL

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

## 2. NAME OF OPERATOR

VASTAR RESOURCES, INC.

36619

## 3. ADDRESS AND TELEPHONE NO.

1816 E. MOJAVE, FARMINGTON NM 87401 (505) 599-4308

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

365' FNL, 787' FEL

At proposed prod. zone

1256' FNL, 1312' FEL (MIDPOINT COAL)

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

41 MILES EAST-NORTHEAST OF BLOOMFIELD, NM

## 15. DISTANCE FROM PROPOSED\*

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

1306'

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

5700'

## 16. NO. OF ACRES IN LEASE

824.25

## 17. NO. OF ACRES ASSIGNED

TO THIS WELL

320

## 19. PROPOSED DEPTH

3796' TVD, 3968' MD

## 20. ROTARY OR CABLE TOOLS

ROTARY

## 21. ELEVATIONS (Show whether DP, BT, GR, etc.)

6970' GL

## 22. APPROX. DATE WORK WILL START\*

July, 2000

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	400'	300 sx (354 cf.) Circ. to Surf.
7-7/8"	5-1/2"	15.5#	3968' MD	900 sx (1730 cf.) Circ. to Surf.

This action is subject to technical and  
procedural review pursuant to 43 CFR 3105.3  
and appeal pursuant to 43 CFR 3105.4.

Directional drilling (see attached directional plan) begins 50' below surface casing at 450' and builds to 21° max then holds before dropping back towards vertical (S shaped) to 10° max through coal to TD.

SHL	365' FNL	787' FEL	0' TVD	0' MD
Top of Coal	1304' FNL	1311' FEL	3691' TVD	3861' MD
Midpoint Coal	1306' FNL	1312' FEL	3704' TVD	3874' MD
Bottom of Coal	1308' FNL	1313' FEL	3716' TVD	3886' MD
BHL at TD	1320' FNL	1320' FEL	3796' TVD	3968' MD

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

IN ABOVE SPACE DESCRIBE PROPOSED 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.

## 34.

SIGNED

CHARLES W. KNIGHT, SR.

TITLE ENGINEER (505) 599-4308

DATE

6/21/00

(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 applicant to conduct operations thereon.  
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

/s/ Jim Lovato

NMOC

TITLE

DATE

JUL 11 2000

\*See Instructions On Reverse Side

THE BUREAU OF LAND MANAGEMENT

HOLD C104 FOR

Directional Survey

District I  
191 Box 1980, Hobbs, NM 88241-1980  
District II  
811 South First, Artesia, NM 88210  
District III  
1080 Rio Brazos Rd., Aztec, NM 87410  
District IV  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

Form C-102  
Revised October 18, 1994  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

APN Number <b>30-039-26483</b>		Pool Code <b>71629</b>	Pool Name <b>Basin Fruitland Coal</b>
Property Code <b>826249</b>	Property Name <b>CARRACAS 36A</b>		Well Number <b>1</b>
OGRID No. <b>36619</b>	Operator Name <b>VASTAR RESOURCES, INC.</b>		Elevation <b>6970'</b>

10 Surface Location

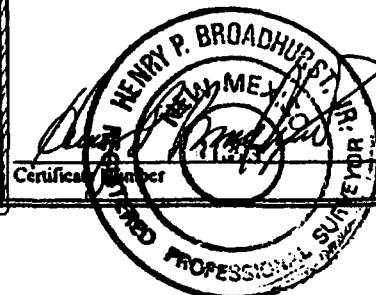
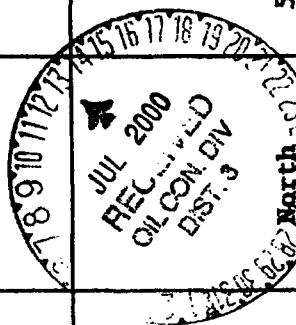
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>A</b>	<b>36</b>	<b>32N</b>	<b>5W</b>		<b>365'</b>	<b>NORTH</b>	<b>787'</b>	<b>EAST</b>	<b>RIO ARriba</b>

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
<b>A</b>	<b>36</b>	<b>32N</b>	<b>5W</b>		<b>1320'</b>	<b>NORTH</b>	<b>1320'</b>	<b>EAST</b>	<b>RIO ARriba</b>
Dedicated Acres <b>320 ac</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>N89°54'W</p> <p>5280.66'</p> <p>SHL 365'</p> <p>787'</p> <p>BHL 1320'</p> <p>NSL</p> <p>5280.00'</p> <p>Section 36</p> <p>North</p> <p>West</p> <p>5280.00'</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>Charles W. Knight, Jr.</i></p> <p>Signature <b>Charles W. Knight, Jr.</b></p> <p>Printed Name <b>Engineer</b></p> <p>Title <b>June 21, 2000</b></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><b>06/14/00</b></p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor:</p>	
	<p><b>06/14/00</b></p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor:</p>	
	<p><b>06/14/00</b></p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor:</p>	



VASTAR RESOURCES  
CARRACAS 36A #1

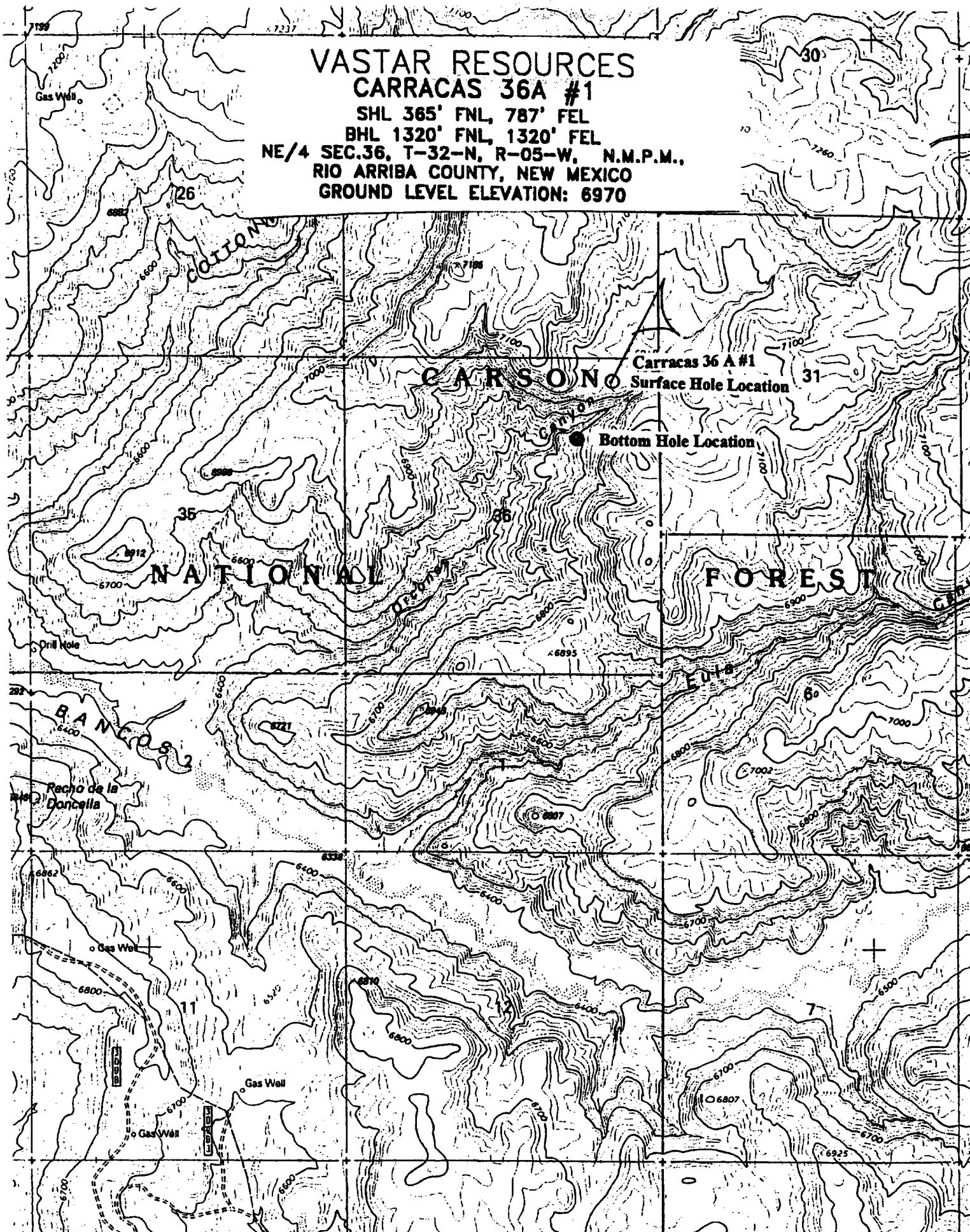
SHL 365' FNL, 787' FEL

BHL 1320' FNL, 1320' FEL

NE/4 SEC.36, T-32-N, R-05-W, N.M.P.M.,

RIO ARRIBA COUNTY, NEW MEXICO

GROUND LEVEL ELEVATION: 6970



Vastar Resources, Inc.  
Carracas 36 A #1  
SHL: 365' FNL, 787' FEL  
BHL: 1320' FNL, 1320' FEL  
Sec 36, T32N, R5W  
Rio Arriba County, New Mexico

Page 1

## **DRILLING PLAN**

Directional drilling (see attached directional plan) begins 50' below surface casing at 450' and builds to 21° max then holds before dropping back towards vertical (S shaped) to 10° max through coal to TD.

1. **FORMATION TOPS:** The estimated tops of geologic markers as follows:

Ojo Alamo	3115' TVD
Kirkland	3205' TVD
Fruitland	3534' TVD
Top of Coal	3691' TVD, 3861' MD
TD	3796' TVD, 3968' MD

2. **ANTICIPATED DEPTHS OF OIL, GAS, AND WATER:**

Ojo Alamo	3115' TVD - Water
Fruitland	3534' TVD - Gas

All zones capable of oil, gas, or water production will be protected with 8 5/8" or 5 1/2" casing and cemented to surface.

3. **BLOWOUT PREVENTOR REQUIREMENTS:**

<u>Interval</u>	<u>Pressure Control Equipment</u>
Surface - 400'	No equipment necessary
400' - TD	10" 2000 psi Double Ram preventor, rotating head and choke manifold.

All BOPE will be hydraulically pressure tested when nipped up, after well control use and every thirty days. Pressure tests will be to the lesser of 2000 psi or to 70% of the minimum internal yield pressure of the casing.

Blind rams will be functioned on each trip out of the hole. All BOPE checks will be noted on the daily drilling reports. Additional BOPE equipment includes a kelly cock, FO safety valve and an inside BOP.

SEE ATTACHED BOP DIAGRAM

Carracas 36 A 1 A-  
365' FNL & 787' FEL Sec. 36, T32N, R5W  
Rio Arriba County, New Mexico,

Signed: [Signature]  
Title: SR. Regulatory Analyst

THE STATE OF TEXAS )  
 ) ss.  
COUNTY OF HARRIS )

**SUBSCRIBED AND SWORN** to before me, a Notary Public in and for said County and State  
this      17    day of   November      , 2000.

  
Notary Public

**My Commission Expires:** 2/4/04



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or 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

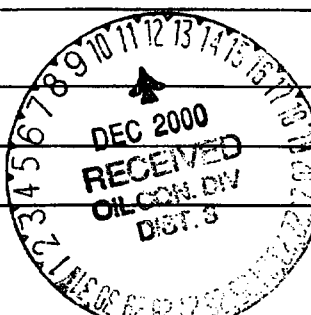
**VASTAR RESOURCES, INC.**

3. Address and Telephone No.

**1816 E. MOJAVE ST., FARMINGTON, NM 87401 (505) 599-4300**

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

**NENE 365' FNL & 787' FEL SEC. 36, T-32N, R-5W**



5. Lease Designation and Serial No.

**NM 29340**

6. If Indian, Allottee or Tribe Name

**CARRACAS UNIT**

7. If Unit or CA, Agreement Designation

8. Well Name and No.

**CARRACAS 36 A # 1**

9. API Well No.

**30-039-26483**

10. Field and Pool, or Exploratory Area

**BASIN FRUITLAND COAL**

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

- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other **NEW WELL COMPLETION**

- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report 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 depths for all markers and zones pertinent to this work.)

Reference Vastar's application for permit to drill dated 06/21/00 and BLM'S approval dated 07/11/00, Re-the subject well. Operator ran a CCL/GR/CNL fm 3958' to 2958' and perforated Fruitland Coals as follows: 3836-3854 (18") and 3904-3911 (7"), Total 25' w/ 4 spf, 100 holes w/ 0.42" diameter. Treat all perfs w/ 500 gal 10% formic acid followed w/ 101,398 gal 25# Delta Frac 140 gel w/ sandwedge containing 2,053 sx 20/40 Brady Sand. Cleaned out 5 1/2" csg to 3975' (PBD) and ran 1.9" 2.76#, J-55, IJ 10RD tbg w/ 'F' nipple and expendable check valve. No pkr, EOT @ 3822'. N.U. 2 3/8" X 2000# flanged tree, flow and clean well to flowback tank and run 24 hr flow test. Shut well in--WOPLC. Completion operations started on 09/28/00 and were finalized on 10/09/00. Note: This well was directionally drilled. Location @ Total depth 1256' FNL & 1284' FEL.

cc: BLM

N. Hall  
Well File

14. I hereby certify that the foregoing is true and correct

Signed *Tom Mangan*

Title **WORKOVER SUPERVISOR**

Date **10/24/2000**

(This space for Federal or State office use)

Approved by \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

Conditions of approval, if any:

ACCEPTED FOR RECORD

**DEC 6 2000**

BY *[Signature]*  
FARMINGTON FIELD OFFICE

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

\*See Instruction on Reverse Side

NMOC

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil ☒ Gas ☐ Other

2. Name of Operator

VASTAR RESOURCES, INC.

3. Address and Telephone No.

1816 E. MOJAVE ST., FARMINGTON, NM 87401 (505) 599-4308

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

SHL: 365' FNL, 787' FEL, Section 36, T32N, R5W

BHL: 1256' FNL, 1284' FEL, Section 36, T32N, R5W

5. Lease Designation and Serial No.

NM 29340

6. If Indian, Allettee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

CARRACAS 36 A #1

9. API Well No.

30-039-28483

10. Field and Pool, or Exploratory Area

BASIN FRUITLAND COAL

11. County or Parish, State

RIO ARRIBA COUNTY, NM

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

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

(Note: Report results of multiple completion on Well Completion or Recompletion Report 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 depths for all markers and zones pertinent to this work.)

9-7-00 Spud 12 1/4" hole @ 12:00. TD'd surface hole at 430' on 9-7-00 @ 18:30. Ran 9 joints 8 5/8" 24# J-55 STC casing to 424' and cemented with 300 ex Class B w/ 3% CaCl2 & 1/4 #/ex Flocc. Circulated 24 bbls cement to pit. Installed bradenhead & BOP. Tested BOP to 250 psi low 2000 psi high. Drilled out with 7 7/8" bit. Begin directional build at 526'.

9-17-00 TD'd 7 7/8" hole at 4024' MD (3864' TVD) @ 17:00 1019' southwest of SHL at 214.5 degree azimuth. Ran 98 joints 5 1/2" 17# K-55 LTC casing to 4024' MD and cemented with 1100 ex 65/35 H Poz w/ 6% gel, 5 #/sk Gilsenite & 1/4PPS Floccle followed by 100 ex 50/50 H Poz w/ 2% gel, 5 #/sk Gilsenite & 1/4PPS floccle. Circulated 55 bbls cement to pit. CIP 17:00 9-24-00. ND BOP, NU Wellhead, RD.

cc: BLM, Farmington (Dr + 3)

N. Hall

Well File

14. I hereby certify that the foregoing is true and correct

Signed

Title Engineer 505 599 4308

Date APPROVED FOR RECORD

(This space for Federal or State office use)

Approved by

Title

Date

DEC 6 2000

Conditions of approval, if any:

FARMINGTON FIELD OFFICE  
BY

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

\*See instruction on Reverse Side

NMOCD





**Scientific  
Drilling**

700 OCT 23 PM 12:10

070 FARMINGTON, NM

**DIRECTIONAL SURVEY REPORT**

**Prepared For**

**VASTAR RESOURCES, INC.**

**CARRACAS 36 A #1**

*36-32N-SW*

**RIO ARRIBA COUNTY, NM**

***Prepared By:***

***Judi Moore - Well Planner***

***Scientific Drilling International***

***Rocky Mountain District***

Scientific Drilling International  
7237 W. Barton Rd. - P.O. Box 1600  
Mills, WY 82644  
(307) 472-6621  
judimoore-sdi@caspers.net



Scientific  
Drilling

## Directional Survey Certification

RE: Vastar Resources, Inc. Operator  
Carracas 36 A #1 Well Name & No.  
Sec. 36 , T32N , R5W Surface Hole Location  
Rio Arriba County, NM Location  
41DMWD0900133 SDI Job No.

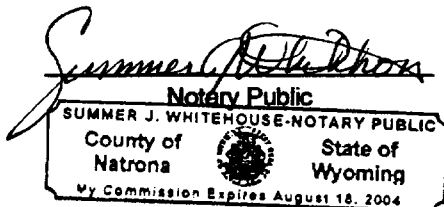
I, Judi Moore, having personal knowledge of all the facts, hereby  
 certify that the attached directional survey run from a measured depth of 423 feet to a  
 measured depth of 4024 feet is true and correct as determined from all available records.

Judi Moore Well Planner SDI  
 Signature Title Company

State of : Wyoming }  
 County of : Natrona } ss

On this 10<sup>th</sup> day of October, 2000, before me personally appeared  
Judi Moore to me known as the person described in and who executed the foregoing  
 instrument and acknowledged that (s)he executed the same as his/her free act and deed.

Seal



Aug. 18, 2004  
 My Commission Expires



# Scientific Drilling International

## CASPER, WY

<b>Company:</b> Vastar Resources, Inc.	<b>Date:</b> 10/9/2000	<b>Time:</b> 16:44:21	<b>Page:</b> 1
<b>Field:</b> Rio Arriba County, NM	<b>Co-ordinate(NE) Reference:</b> Well: #1, True North		
<b>Site:</b> CARRACAS 36 A #1	<b>Vertical (TVD) Reference:</b> SITE 0.0		
<b>Well:</b> #1	<b>Section (VS) Reference:</b> Well (0.00E,0.00N,207.86Azi)		
<b>Wellpath:</b> OH	<b>Survey Calculation Method:</b> Minimum Curvature	<b>Db:</b> Sybase	

<b>Survey:</b> Survey #1	<b>Start Date:</b> 9/13/2000
<b>Company:</b> Scientific Drilling	<b>Engineer:</b> John Sears
<b>Tool:</b> MWD,	<b>Tied-to:</b> User Defined

<b>Field:</b> Rio Arriba County, NM	
<b>Map System:</b> US State Plane Coordinate System 1927	<b>Map Zone:</b> New Mexico, Central Zone
<b>Geo Datum:</b> Clarke 1886	<b>Coordinate System:</b> Well Centre
<b>Sys Datum:</b> Mean Sea Level	<b>Geomagnetic Model:</b> igr2000

<b>Site:</b> CARRACAS 36 A #1 SHL SEC.36,T32N,R5W		
<b>Site Position:</b> From: Lease Line	<b>Northing:</b> ft	<b>Latitude:</b>
<b>Position Uncertainty:</b> 0.00 ft	<b>Easting:</b> ft	<b>Longitude:</b>
<b>Ground Level:</b> 0.00 ft		<b>North Reference:</b> True
		<b>Grid Convergence:</b> -0.15 deg

<b>Well:</b> #1	<b>Slot Name:</b>
<b>Well Position:</b> +N/-S 0.00 ft	<b>Northing:</b> 2152991.41 ft
+E/-W 0.00 ft	<b>Easting:</b> 426917.75 ft
<b>Position Uncertainty:</b> 0.00 ft	<b>Latitude:</b> 36 54 59.999 N
	<b>Longitude:</b> 106 30 0.000 W

<b>Wellpath:</b> OH	<b>Drilled From:</b> Surface
<b>Current Datum:</b> SITE	<b>Tie-on Depth:</b> 0.00 ft
<b>Magnetic Data:</b> 8/31/2000	<b>Above System Datum:</b> Mean Sea Level
<b>Field Strength:</b> 52202 nT	<b>Declination:</b> 10.70 deg
<b>Vertical Section:</b> Depth From (TVD) ft	<b>Mag Dip Angle:</b> 64.14 deg
	<b>+N/-S</b> ft
	<b>+E/-W</b> ft
	<b>Direction</b> deg
3796.00	0.00 0.00 207.86

### Annotation

<b>MD</b> ft	<b>TVD</b> ft	
4024.00	3863.60	SURVEY @ 4024' MD IS A PROJECTION

### Survey

Meas Depth ft	Inclination deg	Azimuth deg	TVD ft	Vert Sect ft	N/S ft	E/W ft	DLS deg/100ft	CLen ft	CLSD ft	CLSA deg
423.00	0.00	0.00	423.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
484.00	0.50	165.30	484.00	0.20	-0.26	0.07	0.82	61.00	0.27	165.30
538.00	1.80	215.50	537.99	1.21	-1.18	-0.37	2.83	54.00	1.23	197.25
568.00	4.00	222.90	567.95	2.69	-2.33	-1.35	7.42	30.00	2.69	210.15
629.00	9.00	216.80	628.54	9.46	-7.71	-5.66	8.26	61.00	9.56	216.29
690.00	11.21	216.09	688.59	20.04	-16.32	-12.01	3.63	61.00	20.27	216.35
752.00	13.30	216.20	749.17	33.06	-26.95	-19.77	3.37	62.00	33.42	216.27
814.00	14.90	215.70	809.30	48.02	-39.18	-28.64	2.59	62.00	48.53	216.17
881.00	16.80	212.20	873.75	66.21	-54.37	-38.83	3.17	67.00	66.81	215.53
939.00	18.60	209.40	929.01	83.81	-69.52	-47.83	3.43	58.00	84.39	214.53
1001.00	21.40	209.80	987.26	105.01	-87.95	-58.31	4.52	62.00	105.53	213.54
1063.00	21.30	210.70	1045.01	127.56	-107.45	-69.68	0.55	62.00	128.07	212.96
1123.00	20.90	210.40	1100.98	149.14	-126.05	-80.66	0.69	60.00	149.65	212.62
1185.00	20.80	211.00	1158.92	171.17	-145.03	-91.93	0.38	62.00	171.71	212.37
1246.00	19.70	210.40	1216.15	192.26	-163.18	-102.71	1.84	61.00	192.81	212.19
1307.00	19.40	209.40	1273.64	212.66	-180.87	-112.88	0.74	61.00	213.21	211.97
1369.00	18.70	210.50	1332.24	232.88	-198.41	-122.98	1.27	62.00	233.43	211.79
1483.00	20.60	205.30	1420.77	264.46	-226.35	-137.70	2.75	94.00	264.94	211.31
1557.00	20.10	207.60	1508.90	297.13	-255.61	-152.25	1.00	94.00	297.52	210.78



# Scientific Drilling International

## CASPER, WY

Company: Vastar Resources, Inc.  
Field: Rio Arriba County, NM  
Site: CARRACAS 36 A #1  
Well: #1  
Wellpath: OH

Date: 10/9/2000 Time: 16:44:21 Page: 2  
Co-ordinate(N/E) Reference: Well: #1, True North  
Vertical (TVD) Reference: SITE 0.0  
Section (VS) Reference: Well (0.00E,0.00N,207.86Azi)  
Survey Calculation Method: Minimum Curvature Db: Sybase

### Survey

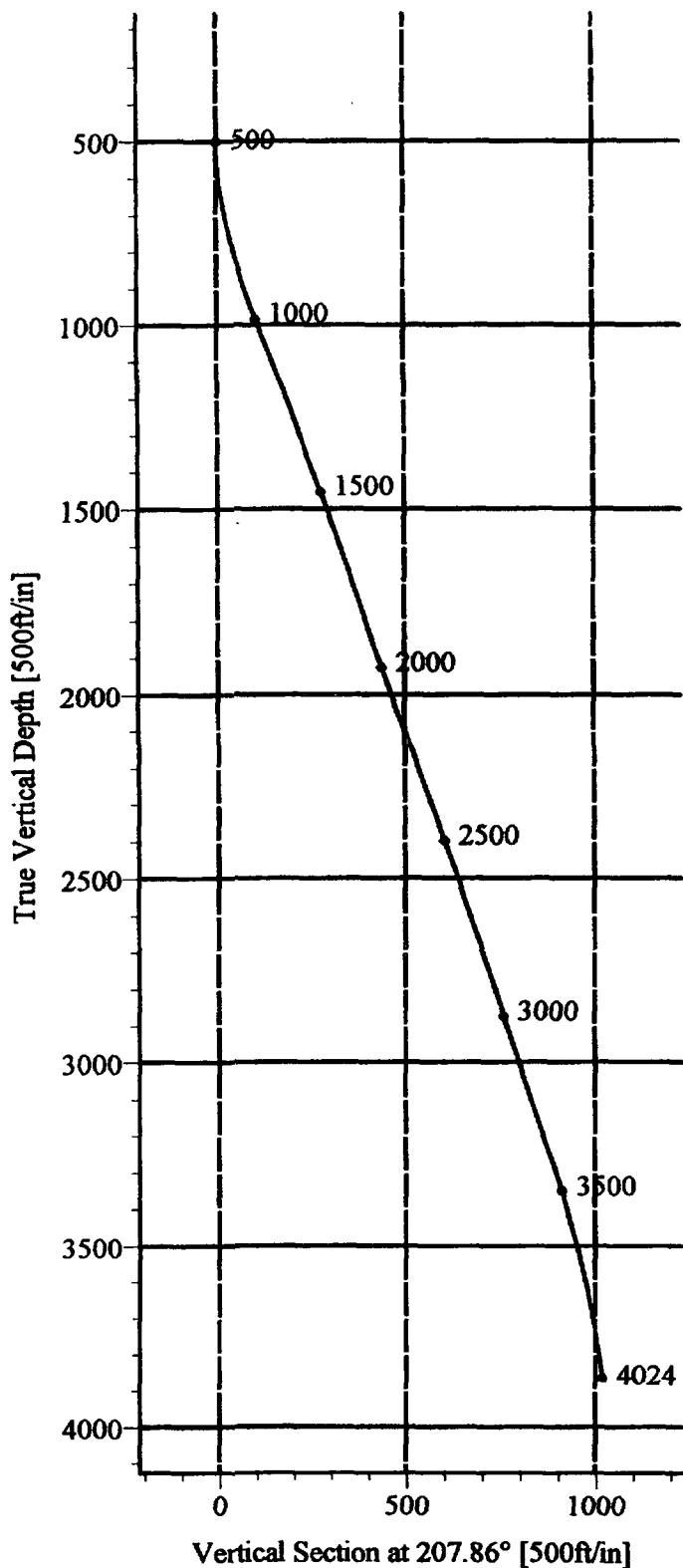
Meas Depth ft	Inclination deg	Azimuth deg	TVD ft	Vert Sect ft	N/S ft	E/W ft	DLS deg/100ft	CLen ft	CLD ft	CLsA deg
1652.00	18.90	206.50	1598.45	328.84	-283.85	-166.68	1.32	95.00	329.17	210.42
1746.00	18.70	207.80	1687.44	359.13	-310.80	-180.50	0.49	94.00	359.42	210.15
1839.00	17.80	207.40	1775.76	388.25	-336.61	-194.00	0.98	93.00	388.51	209.96
1930.00	19.40	204.10	1862.01	417.24	-362.76	-206.57	2.10	91.00	417.45	209.66
2022.00	18.40	205.60	1949.04	447.00	-389.80	-219.08	1.21	92.00	447.15	209.34
2115.00	20.20	202.10	2036.82	477.65	-417.92	-231.47	2.30	93.00	477.74	208.98
2206.00	19.80	201.10	2122.33	508.58	-446.85	-242.93	0.58	91.00	508.62	208.53
2299.00	18.60	201.70	2210.16	538.97	-475.33	-254.08	1.31	93.00	538.98	208.13
2390.00	20.00	203.90	2296.04	568.93	-503.04	-265.75	1.73	91.00	568.93	207.85
2482.00	19.40	203.20	2382.65	599.85	-531.47	-278.15	0.70	92.00	599.86	207.63
2576.00	18.50	210.40	2471.57	630.32	-558.69	-291.85	2.66	94.00	630.32	207.58
2670.00	17.60	208.80	2560.95	659.43	-584.01	-306.24	1.09	94.00	659.43	207.67
2761.00	18.40	212.10	2647.49	687.50	-608.23	-320.50	1.42	91.00	687.51	207.79
2853.00	17.80	210.10	2734.94	716.04	-632.70	-335.27	0.94	92.00	716.04	207.92
2945.00	17.70	211.70	2822.56	744.04	-656.76	-349.67	0.54	92.00	744.05	208.03
3038.00	16.60	213.20	2911.43	771.38	-679.91	-364.37	1.27	93.00	771.39	208.19
3132.00	17.20	210.10	3001.37	798.63	-703.17	-378.70	1.15	94.00	798.66	208.31
3225.00	18.10	209.80	3089.99	826.81	-727.60	-392.77	0.97	93.00	826.84	208.36
3319.00	18.70	210.60	3179.18	856.46	-753.24	-407.70	0.69	94.00	856.50	208.42
3412.00	18.50	211.80	3267.33	886.07	-778.61	-423.06	0.46	93.00	886.13	208.52
3505.00	15.70	210.90	3356.21	913.36	-801.96	-437.30	3.02	93.00	913.44	208.60
3600.00	14.50	211.30	3447.92	938.07	-823.15	-450.08	1.27	95.00	938.16	208.67
3691.00	13.40	211.70	3536.24	959.96	-841.85	-461.54	1.21	91.00	960.07	208.73
3785.00	11.60	215.50	3628.01	980.20	-858.82	-472.76	2.10	94.00	980.34	208.83
3909.00	9.30	218.10	3749.94	1002.41	-876.85	-486.18	1.89	124.00	1002.62	209.01
3986.00	8.50	214.50	3826.02	1014.19	-886.44	-493.24	1.27	77.00	1014.43	209.09
4024.00	8.50	214.50	3863.60	1019.77	-891.07	-496.42	0.00	38.00	1020.02	209.12

-368 -787  
-1256 1283

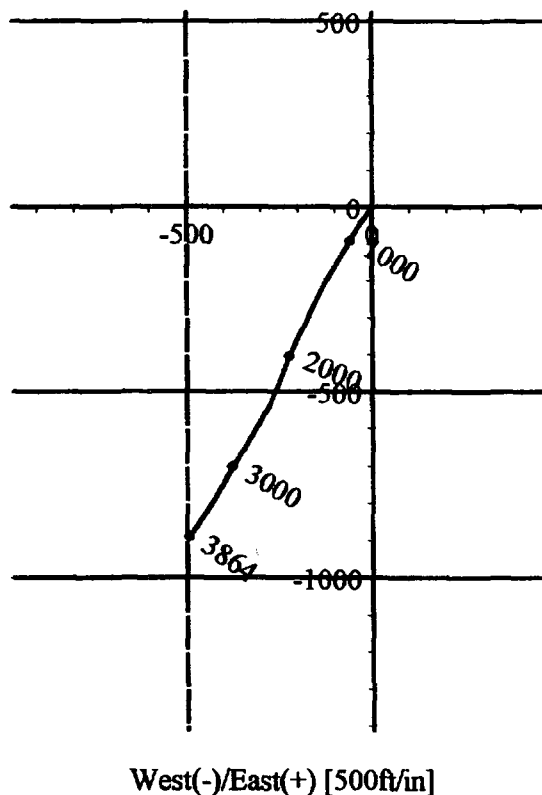


# Vastar Resources, Inc.

Field: Rio Arriba County, NM  
 Site: CARRACAS 36 A #1  
 Well: #1  
 Wellpath: OH  
 Survey: Survey #1



South(-)/North(+) [500ft/in]



## BOTTOM HOLE CLOSURE

38.0 ft. 209.12° Azimuth

## FINAL STATION

4024.0' MD 3863.6' TVD  
 8.5° Angle 214.5° Azimuth  
 South 891.07 ft. West 496.42 ft.  
 1019.77' Vert. Sect.

Survey: Survey #1 (#1/OH)

Created By: Judi Moore

Date: 10/9/2000

Checked: \_\_\_\_\_

Date: \_\_\_\_\_

Reviewed: \_\_\_\_\_

Date: \_\_\_\_\_

Approved: \_\_\_\_\_

Date: \_\_\_\_\_

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE  
(See other instructions  
on reverse side)

FOR APPROVED  
OMB NO. 1004-0137  
Expires: December 31, 1991

WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

1. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER <input type="checkbox"/> NEW COMPLETION										5. LEASE DESIGNATION AND SERIAL NO. NM 29340	
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> REPAIR <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIVE REPAIR <input type="checkbox"/> OTHER <input type="checkbox"/>										6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR VASTAR RESOURCES, INC.										7. UNIT AGREEMENT NAME Carracas Unit	
3. ADDRESS AND TELEPHONE NO. 1816 E. MOJAVE, FARMINGTON, NM 87401 (505) 599-4300										8. FARM OR LEASE NAME, WELL NO. Carracas 36 A # 1	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 365' FNL & 787' FEL At top prod. interval reported below 1232' FWL & 1266' FEL At total depth 1256' FNL & 1284' FEL										9. API WELL NO. 30-039-26483	
14. PERMIT NO. JIM LOVATO 07/11/00										12. COUNTY OR PARISH RIO ARriba	
15. DATE SPUNDED 09/07/00										13. STATE NM	
16. DATE T.D. REACHED 09/17/00										11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA SEC. 36, T-32N, R-5W	
17. DATE COMPL. 10/09/00 (Ready to prod.)										10. BASIN FRUITLAND COAL	
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 6986 KB 6970 GL										11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA SEC. 36, T-32N, R-5W	
20. TOTAL DEPTH, MD & TVD 4024 MD/3864 TVD										23. INTERVALS DRILLED BY ROTARY TOOLS 0-4024	
21. PLUG, BACK T.D., MD & TVD 3975 MD/ 3815(TVD)										22. IF MULTIPLE COMPL. HOW MANY*	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* FRUITLAND 3836-3911 (MD) 3678-3752 (TVD)										25. WAS DIRECTIONAL SURVEY MADE YES	
26. TYPE ELECTRIC AND OTHER LOGS RUN CCL/GR/CNL & MUD LOG										27. WAS WELL CORED NO	
28. RE-ENTRY CASING RECORD (Report all strings set in well)											
CASING SIZE/GRADE WEIGHT, LB/FT DEPTH SET (MD) HOLE SIZE TOP OF CEMENT, CEMENTING RECORD AMOUNT PULLED											
8 5/8" J-55 24.0 424 12 1/4 GL 300 SX NONE											
5 1/2 K-55 17.0 4024 7 7/8 GL 1200 SX NONE											
29. RE-ENTRY										30. TUBING RECORD	
SIZE TOP (MD) BOTTOM (MD) SACKS CEMENT* SCREEN (MD) SIZE DEPTH SET (MD) PACKER SET (MD)											
										1.9 3822 NONE	
31. PERFORATION RECORD (Interval, size and number) 3836-3854 (18') and 3904-3911 (7'), Total 25' w/ 4 spf, 100 holes w/ 0.42" dia.										32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED 3836-3911 500 GAL 10% Formic acid plus followed w/ 101,398 gal 25# Delta Frac 140 gel w/sw containing 2,053 sx 20/40 Brady sand.	
33. PRODUCTION											
DATE FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) WELL STATUS (Producing or shut-in)											
FLOWING SI-WOPLC											
DATE OF TEST HOURS TESTED CHOKE SIZE PROD'N. FOR TEST PERIOD OIL - BBL. GAS - MCF. WATER - BBL. GAS-OIL RATIO											
10/16/00 24 1/2 250 44											
FLOW TUBING PRESS. CASING PRESSURE CALCULATED 24-HOUR RATE OIL - BBL. GAS - MCF. WATER - BBL. OIL GRAVITY - API (CORR.)											
80 330											
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) VENTED										ACCEPTED FOR RECORD JACK SANDERS	
35. LIST OF ATTACHMENTS											
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records										DEC 06 2000	
SIGNED [Signature] TITLE WORKOVER SUPERVISOR										DATE 11/02/2000	

(See Instructions and Spaces for Additional Data on Reverse Side)

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

## INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

**INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE**

## Southeastern New Mexico

T. Anhy_____	T. Canyon_____
T. Salt_____	T. Strawn_____
B. Salt_____	T. Atoka_____
T. Yates_____	T. Miss_____
T. 7 Rivers_____	T. Devonian_____
T. Queen_____	T. Silurian_____
T. Grayburg_____	T. Montoya_____
T. San Andres_____	T. Simpson_____
T. Glorieta_____	T. McKee_____
T. Paddock_____	T. Ellenburger_____
T. Blinebry_____	T. Gr. Wash_____
T. Tubb_____	T. Delaware Sand_____
T. Drinkard_____	T. Bone Springs_____
T. Abo_____	T. _____
T. Wolfcamp_____	T. _____
T. Penn_____	T. _____
T. Cisco (Bough C)_____	T. _____

## Northwestern New Mexico

T. Ojo Alamo	<u>3100'</u>	T. Penn. "B"	_____
T. Kirtland-Fruitland	<u>3208'</u>	T. Penn. "C"	_____
T. Pictured Cliffs	<u>3918'</u>	T. Penn. "D"	_____
T. Cliff House	_____	T. Leadville	_____
T. Menefee	_____	T. Madison	_____
T. Point Lookout	_____	T. Elbert	_____
T. Mancos	_____	T. McCracken	_____
T. Gallup	_____	T. Ignacio Otzte	_____
Base Greenhorn	_____	T. Granite	_____
T. Dakota	_____	T.	_____
T. Morrison	_____	T.	_____
T. Todilto	_____	T.	_____
T. Entrada	_____	T.	_____
T. Wingate	_____	T.	_____
T. Chinle	_____	T.	_____
T. Permian	_____	T.	_____
T. Penn "A"	_____	T.	_____

## OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....  
No. 2, from.....to.....

No. 3, from.....to.....  
No. 4, from.....to.....

## IMPORTANT WATER SANDS

**Include data on rate of water inflow and elevation to which water rose in hole.**

No. 1, from.....to.....feet  
No. 2, from.....to.....feet  
No. 3, from.....to.....feet

**LITHOLOGY RECORD** (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology

From	To	Thickness In Feet	Lithology

State of New Mexico  
 PO Box 1980, Hobbs, NM 88241-1980  
 District II  
 811 South First, Artesia, NM 88210  
 District III  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 District IV  
 2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
 Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
 2040 South Pacheco  
 Santa Fe, NM 87505

Form C-104  
 Revised October 18, 1994  
 Instructions on back  
 Submit to Appropriate District Office  
 5 Copies

☐ AMENDED REPORT

# I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

Operator name and Address Vester Resources, Inc. Attn. Mary Corley P.O. Box 3092 Houston, TX 77253		OGRID Number 036619
Reason for Filing Code New Well		
API Number 30 - 039-26483	Pool Name Basin Fruitland Coal	Pool Code 71629
Property Code	Property Name Corvaca 36 A	Well Number 1

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

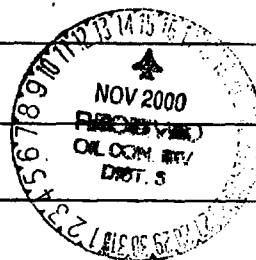
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
A	36	32N	05W		365'	North	787'	East	Rio Arriba

## <sup>11</sup> Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	36	32N	05W		1320'	North	1320'	East	Rio Arriba
Lee Code F	Producing Method Code F	Gas Connection Date	C-129 Permit Number	C-129 Effective Date	C-129 Expiration Date				

## III. Oil and Gas Transporters

Transporter OGRID	Transporter Name and Address	POD	O/G	POD ULSTR Location and Description
036619	Vester Resources, Inc. 1816E Majawa Farmington, NM 87401	2829303	G	



## IV. Produced Water

POD	POD ULSTR Location and Description
2829304	

## V. Well Completion Data

<sup>22</sup> Spud Date 09/07/2000	<sup>23</sup> Ready Date 10/09/2000	<sup>21</sup> TD 4024' MD 3864' TVD	<sup>24</sup> PBTD 3975' MD 3815' TVD	<sup>25</sup> Perforations 3836' - 3911	<sup>26</sup> DHC, DC, MC
<sup>27</sup> Hole Size		<sup>28</sup> Casing & Tubing Size		<sup>29</sup> Depth Set	<sup>30</sup> Sacks Cement
12 1/4"		8 5/8" 24#		424'	300 SKS
7 7/8"		5 1/2" 17#		4024'	1200 SKS
Tubing		1.9"		3822'	

## VI. Well Test Data

Date New Oil	Gas Delivery Date	Test Date 10/16/2000	Test Length 24 Hrs.	Tbg. Pressure	Csg. Pressure 330#
Choke Size 1"	Oil	Water 44	Gas 250	AOF	Test Method F

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Mary Corley</i>		8-201 OIL CONSERVATION DIVISION Approved by: <b>ORIGINAL SIGNED BY CHARLES T. PERROW</b> Title: <b>DEPUTY OIL &amp; GAS INSPECTOR - DIST. 5</b> Approval Date: <b>AUG - 7 2001</b>
Printed name: Mary Corley	Title: Sr. Regulatory Analyst	
Date: 11/14/2000	Phone: 281-366-4491	

\* If this is a change of operator fill in the OGRID number and name of the previous operator



District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-104A  
March 19, 2001

Submit 1 copy of the final affected wells  
list along with 1 copy of this form per  
number of wells on that list to appropriate  
District Office

### Change of Operator

#### Previous Operator Information:

OGRID: 036619  
Name: Vastar Resources Inc.  
Address: P.O. Box 3092  
Address: \_\_\_\_\_  
City, State, Zip: Houston, Texas 77253

#### New Operator Information:

Effective Date: 12/31/2001  
New Ogrid: 000778  
New Name: BP America Production Company  
Address: P.O. Box 3092  
Address: \_\_\_\_\_  
City, State, Zip: Houston, TX 77253

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information on this form and the attached list of wells is true and complete to the best of my knowledge and belief.

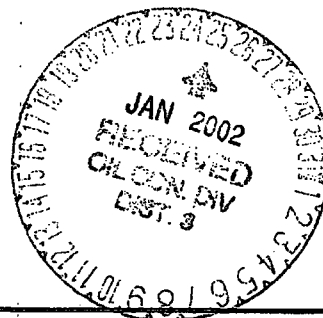
New Operator

Signature: Mary Corley

Printed name: Mary Corley

Title: Sr. Regulatory Specialist

Date: 12/10/2001 Phone: 281-366-4491



Previous operator complete below:

Previous  
Operator: Vastar Resources Inc.

Previous

OGRID: 036619

Signature: Mary Corley

Printed

Name: Mary Corley

#### NMOCD Approval

Signature: \_\_\_\_\_

Printed

Name: 27.8

SUPERVISOR DISTRICT #3

District: \_\_\_\_\_

JAN 25 2002

Date: \_\_\_\_\_

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0135  
Expires: November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do ~~not~~ use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

ENERGEN RESOURCES CORPORATION

3a. Address

2198 Bloomfield Highway, Farmington, NM 87401

3b. Phone No. (include area code)

505-325-6800

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

SHL: 365' FNL & 787' FEL, Sec. 36, T32N, R5W, NMPM

BHL: 1256' FNL & 1284' FEL, Sec. 36, T32N, R5W, NMPM

5. Lease Serial No.

NMNM 29340

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No

8. Well Name and No.

Carracas 36A 1

9. API Well No.

30-039-26483

10. Field and Pool, or Exploratory Area

Basin Fruitland Coal

11. County or Parish, State

Rio Arriba NM

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

TYPE OF SUBMISSION

- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- |   |  |  |   |
|---|--|--|---|
| <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen                      | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Fracture Treat              | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction            | <input type="checkbox"/> Recomplete                | <input type="checkbox"/> Other          |
| <input type="checkbox"/> Change Plans         | <input checked="" type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon       |   |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back                   | <input type="checkbox"/> Water Disposal            |   |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

Energen Resources Corporation plans to Plug and Abandon this well after the replacement well is drilled.

The P & A procedure will follow.

RECEIVED  
2003 SEP -3 AM 10: 57  
070 Farmington, NM



14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Charlie Donahue

Title

District Engineer

Date 09/03/03

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

ACCEPTED FOR RECORD

Approved by

Title

Date SEP 05 2003

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

FARMINGTON FIELD OFFICE

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes 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.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0135  
Expires: November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**

*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well  
☐ Oil Well ☐ Gas Well ☒ Other Pressure Observation Well

2. Name of Operator  
Phillips Petroleum Company

3a. Address  
5525 Highway 64, NBU 3004, Farmington, NM 87401

3b. Phone No. (include area code)  
505-599-3454

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Unit H. 1720' FNL & 1242' FEL  
Section 15, T29N, R6W

5. Lease Serial No.

NMSF078278

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

NMNM78416E

8. Well Name and No.

SJ 29-6 Unit #228

9. API Well No.

30-039-26483

10. Field and Pool, or Exploratory Area

Basin Fruitland Coal

11. County or Parish, State

Rio Arriba, NM

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

**TYPE OF SUBMISSION**

- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

**TYPE OF ACTION**

- |   |   |  |   |
|---|---|--|---|
| <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off                 |
| <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity                 |
| <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete                | <input checked="" type="checkbox"/> Other <u>Report</u> |
| <input type="checkbox"/> Change Plans         | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon       | <u>Pressure on POW</u>                                  |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back        | <input type="checkbox"/> Water Disposal            |   |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

A reading from this Pressure Observation well was taken on 3/1/02 at a depth of 3476' and the recorded pressure was 525 psig. ~~Phillips wishes to keep this information confidential.~~



14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

Patsy Clugston

Title

Sr. Regulatory/Proration Clerk

Date

3/25/02

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes 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.

# PHILLIPS PETROLEUM CO.

Page 1 of 1

## Daily Drilling Report

WELL NAME SAN JUAN 29-6 FRUITLAND #228 UNIT		JOB NUMBER	EVENT CODE WOV	24 HRS PROG	TMD 3,475	TVD 3,475	DFS 1	REPT NO. 2	DATE 8/26/1999
SUPERVISOR T.D.BOWKER	RIG NAME & NO. KEY FOUR CORNERS 61	FIELD NAME / OCS NO. BASIN FRUITLAND COAL		AUTH MD	DAILY TANG 0.00		CUM. TANG 0.00		
CURRENT STATUS SION			ACCIDENTS LAST 24 HRS.? NONE		DAILY INT W/O MUD 4,221.00		CUM INTANG W/ MUD 8,681.00		
24 HR FORECAST DROP FROM REPORT, RELEASE TO PRODUCTION			DATE OF LAST SAFETY MEETING 8/25/1999		DAILY TOTAL 4,221		CUM COST W/ MUD 8,681		
LITHOLOGY	JAR HRS OF SERVICE	BHA HRS SINCE INSP	LEAKOFF		AFE WA5.J99.2C.21		AUTH. 7,500		
LAST SURVEY: DATE TMD		INC	AZIM	LAST CASING (in.) @ (ft)		NEXT CASING (in.) @ (ft)		LAST BOP PRES TEST 8/24/1999	

### OPERATIONS SUMMARY

FROM	TO	HOURS	CODE	TROUBLE	SUB	PHASE	DESCRIPTION
07:00	07:15	0.25	WS P		c	90WOVR	SAFETY MEETING
07:15	09:30	2.25	WS P		4	90WOVR	GIH W 2 3/8" RE-ENTRY GUIDE, 1JT 2 3/8" TBG, F NIPPLE( 1.81" ID ), 1JT 2 3/8" TBG, 7" LOCKSET PKR, 107 JTS TBG. EOT @ 3447', F NIPPLE @ 3415' PKR SET @ 3384', 109JTS TOTAL.
09:30	10:00	0.50	WS P		e	90WOVR	ND BOP'S
10:00	10:30	0.50	WS P		e	90WOVR	LAND TBG IN DONUT, NU TREE.
10:30	12:00	1.50	WS P		9	90WOVR	PUMP 80BBLs INHIBITED FLUID DOWN 7" CASING (BAKER CRW 37 MIXED @ 1 DRUM/100 BBL H2O)
12:00	13:30	1.50	WS T	SW40	7	90WOVR	WAIT FOR WATER
13:30	15:00	1.50	WS P		9	90WOVR	PUMP 45BBLs INHIBITED FLUID DOWN 7" CSG
15:00	15:30	0.50	WS P		9	90WOVR	PRESSURE TEST CSG TO 500 PSI FOR 30 MIN. WITH A 10# PRESSURE LOSS. GOOD TEST. BLM REPRESENTATIVE, HERMAN LUJAN, WAS NOTIFIED 8/24 OF TEST. TEST WAS NOT WITNESSED BY BLM.
15:30	17:00	1.50	WS P		z	90WOVR	RD RIG & EQUIPMENT. JOB COMPLETE

24 HR SUMMARY: GIH W 7" PKR ON 2 3/8" TBG, SET PKR @ 3384', ND BOP'S, NU TREE, PRESS. TEST  
CSG TO 500#, RD RIG & EQUIP.

### PERSONNEL DATA

COMPANY	SERVICE	NO	HOURS	COMPANY	SERVICE	NO	HOURS
BIG A WELL SERVICE I	Completion Rig #61	4	10.00	SUNCO TRUCKING	Water Hauling	1	5.00
PPCO	Supervision	1	12.00	CAMERON (WSI)	Wellhead	1	5.00
BAKER OIL TOOLS	Packers & Plugs	1	10.00				

### COMMENTS

WORK COMPLETE. FINAL REPORT.

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-104A  
Revised June 10, 2003

Submit 1 copy of the final affected wells  
list along with 1 copy of this form per  
number of wells on that list to appropriate  
District Office

### Change of Operator

#### Previous Operator Information:

OGRID: 000778  
Name: BP AMERICA PRODUCTION CO.  
Address: P.O. BOX 3092  
Address: \_\_\_\_\_  
City, State, Zip: HOUSTON, TX 77253

#### New Operator Information:

Effective Date: 06/01/2003  
New Ogrid: 162928  
New Name: ENERGEN RESOURCES CORP.  
Address: 2198 BLOOMFIELD HIGHWAY  
Address: \_\_\_\_\_  
City, State, Zip: FARMINGTON, NM 87401

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information on this form and the attached list of wells is true and complete to the best of my knowledge and belief.

New Operator

Signature: \_\_\_\_\_

Printed name: GARY W. BRINK

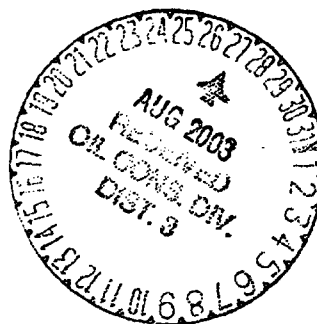
Title: GENERAL MANAGER - SAN JUAN BASIN

E-mail

Address: gbrink@energen.com

Date: 08/25/03

Phone: 505-325-6800



Previous operator complete below:

Previous

Operator: BP AMERICA PRODUCTION COMPANY

Previous

OGRID: 000778

Signature: \_\_\_\_\_

Printed

Name: MARY CORLEY

E-mail

Address: \_\_\_\_\_

#### NMOCD Approval

Signature: \_\_\_\_\_

Printed

Name: \_\_\_\_\_

37.8  
SUPERVISOR DISTRICT #3

District: \_\_\_\_\_

AUG 27 2003

Date: \_\_\_\_\_



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED

OMB NO. 1004-0135

Expires: November 30, 2000

RECEIVED

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.

NMM 29340

6. Indian, Allottee or Tribe Name

7. Unit or CA/Agreement, Name and/or No

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

ENERGEN RESOURCES CORPORATION

3a. Address

2198 Bloomfield Highway, Farmington, NM 87401

3b. Phone No. (include area code)

505-325-6800

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

SHL: 365' FNL & 787' FEL, Sec. 36, T32N, R5W, NMPM

BHL: 1256' FNL & 1284' FEL, Sec. 36, T32N, R5W, NMPM

8. Well Name and No.

Carracas 36A 1

9. API Well No.

30-039-26483

10. Field and Pool, or Exploratory Area  
Basin Fruitland Coal

11. County or Parish, State

Rio Arriba NM

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

TYPE OF SUBMISSION

- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- |   |  |  |   |
|---|--|--|---|
| <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen                      | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Fracture Treat              | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction            | <input type="checkbox"/> Recomplete                | <input type="checkbox"/> Other          |
| <input type="checkbox"/> Change Plans         | <input checked="" type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon       |   |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back                   | <input type="checkbox"/> Water Disposal            |   |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

Energen Resources intends to plug and abandon this with as per the attached plugging procedure.



14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Don Graham

Title

Production Superintendent

Date 11/24/03

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Original Signed: Stephen Mason

Title

Date

DEC 08 2003

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes 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

## PLUG & ABANDONMENT PROCEDURE

9/25/03

### Carracas Unit 36 A #1

Basin Fruitland Coal

1256' FNL & 1284' FEL, Section 36, T-32-N, R-5-W

Rio Arriba Co., New Mexico, API #30-039-26483

Lat: N 36° 56' 34" / Long: W 107° 18' 25"

Note: All cement volumes use 100% excess outside pipe and 50' excess inside. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures. All cement is ASMT Type II mixed at 15.6 ppg with a yield of 1.18 cf/sx.

1. Install and test rig anchors. Prepare blow pit. Comply with all NMOCD, BLM and Energen safety rules and regulations. MOL and RU daylight pulling unit. Blow well down; kill with water if necessary. ND wellhead and NU BOP and stripping head; test BOP.
2. TOH and tally 1-1/2" IJ tubing, total 3822'. If necessary use a workstring. Round-trip 5-1/2" casing scraper to 3800'. (Note: deviated wellbore, a wireline gauge ring probably won't go down.)
3. <sup>33</sup>  
**Plug #1 (Fruitland Coal perforations and Fruitland top, 3786'– 3570')**: TIH with tubing and set a 5-1/2" cement retainer at 3786' MVD. Pressure test tubing to 1000#. Load casing with water and circulate well clean. Pressure test casing to 500#. If casing does not test, then spot or tag subsequent plugs as appropriate. Mix ~~20~~ sxs cement and spot a balanced plug inside the 5-1/2" casing to isolate the Fruitland perforations and to cover the top. PUH to 3260'. (Note: deviated wellbore, do not combine plugs #1 & 2; too much plug length.)
4. <sup>3397' 3184'</sup>  
**Plug #2 (Kirtland and Ojo Alamo tops, 3260'– 3020')**: Mix 33 sxs cement and spot a balanced plug inside the casing to cover the Kirtland and Ojo Alamo tops. PUH to 2050'.
5. <sup>1866 1766</sup>  
**Plug #3 (Nacimlento top, 2050' – 1950')**: Mix 17 sxs cement and spot a balanced plug inside the casing to cover the Nacimlento top. PUH to 474'.
6. **Plug #3 (8-5/8" casing shoe, 474' - Surface)**: Mix and spot approximately 55 sxs cement inside the 5-1/2" casing from 474' to surface, circulate good cement out the casing valve. TOH and LD tubing. Shut in and WOC.
7. ND BOP and cut off casing below surface. Install P&A marker with cement to comply with regulations. RD, move off location, cut off anchors and restore location.

CMD : ONGARD 05/12/04 14:24:28  
 OG6IWCN INQUIRE WELL COMPLETIONS OGOMES -TPER

API Well No : 30 39 26476 Eff Date : 06-01-2003 WC Status : A  
 Pool Idn : 71629 BASIN FRUITLAND COAL (GAS)  
 OGRID Idn : 162928 ENERGEN RESOURCES CORPORATION  
 Prop Idn : 32967 CARRACAS UNIT 25 A

Well No : 016  
 GL Elevation: 6976

U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
B.H. Locn	: P	25	32N	05W	FTG 585 F S FTG 710 F E	P
Lot Identifier:						
Dedicated Acre:	320.00					
Lease Type	: F					
Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O)	: U					

M0025: Enter PF keys to scroll  
 PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06  
 PF07 PF08 PF09 PF10 NEXT-WC PF11 HISTORY PF12 NXTREC



CMD : ONGARD 05/12/04 14:24:38  
OG6ACRE C102-DEDICATE ACREAGE OGMES -TPER  
Page No : 1

API Well No : 30 39 26476 Eff Date : 10-26-2000  
Pool Idn : 71629 BASIN FRUITLAND COAL (GAS)  
Prop Idn : 32967 CARRACAS UNIT 25 A Well No : 016  
Spacing Unit : 53700 OCD Order : Simultaneous Dedication:  
Sect/Twp/Rng : 25 32N 05W Acreage : 320.00 Revised C102? (Y/N) :  
Dedicated Land:

-----						
S	Base U/L	Sec	Twp	Rng	Acreage	L/W Ownership Lot Idn
-----						
A	25	32N	05W	40.00	N	FD
B	25	32N	05W	40.00	N	FD
G	25	32N	05W	40.00	N	FD
H	25	32N	05W	40.00	N	FD
I	25	32N	05W	40.00	N	FD
J	25	32N	05W	40.00	N	FD
O	25	32N	05W	40.00	N	FD
P	25	32N	05W	40.00	N	FD

E0005: Enter data to modify or PF keys to scroll  
PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06 CONFIRM  
PF07 BKWD PF08 FWD PF09 PF10 LAND PF11 NXTSEC PF12 RECONF

CMD : ONGARD 05/12/04 14:24:53  
 OG6IPRD INQUIRE PRODUCTION BY POOL/Well OGOMES -TPER  
 Page No: 1

OGRID Identifier : 778 BP AMERICA PRODUCTION COMPANY  
 Pool Identifier : 71629 BASIN FRUITLAND COAL (GAS)  
 API Well No : 30 39 26476 Report Period - From : 01 2000 To : 04 2004

API Well No	Property Name	Prodn. Days MM/YY Prod	Production Volumes Gas Oil Water	Well Stat
30	39 26476 CARRACAS UNIT 25 A	01 02 31	13055	370 F
30	39 26476 CARRACAS UNIT 25 A	02 02 28	12162	300 F
30	39 26476 CARRACAS UNIT 25 A	03 02 31	12837	342 F
30	39 26476 CARRACAS UNIT 25 A	04 02 30	11674	279 F
30	39 26476 CARRACAS UNIT 25 A	05 02 31	11241	278 F
30	39 26476 CARRACAS UNIT 25 A	06 02 30	11256	324 F
30	39 26476 CARRACAS UNIT 25 A	07 02 31	11903	321 F

Reporting Period Total (Gas, Oil) : -----

M0025: Enter PF keys to scroll  
 PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06 CONFIRM  
 PF07 BKWD PF08 FWD PF09 PF10 NXTPool PF11 NXTOGD PF12

CMD : ONGARD 05/12/04 14:24:57  
 OG6IPRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TPER  
 Page No: 2

OGRID Identifier : 778 BP AMERICA PRODUCTION COMPANY  
 Pool Identifier : 71629 BASIN FRUITLAND COAL (GAS)

API Well No : 30 39 26476 Report Period - From : 01 2000 To : 04 2004

API Well No	Property Name	Prodn. Days MM/YY Prod	Production Volumes Gas Oil Water	Well Stat
30	39 26476 CARRACAS UNIT 25 A	08 02 31	12108	297 F
30	39 26476 CARRACAS UNIT 25 A	09 02 30	11711	330 F
30	39 26476 CARRACAS UNIT 25 A	10 02 31	11949	333 F
30	39 26476 CARRACAS UNIT 25 A	11 02 30	11213	441 F
30	39 26476 CARRACAS UNIT 25 A	12 02 31	10871	302 F
30	39 26476 CARRACAS UNIT 25 A	01 03 31	10964	349 F
30	39 26476 CARRACAS UNIT 25 A	02 03 28	9469	300 F

Reporting Period Total (Gas, Oil) : -----

E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06 CONFIRM  
 PF07 BKWD PF08 FWD PF09 PF10 NXTPPOOL PF11 NXTOGD PF12

CMD : ONGARD 05/12/04 14:24:59  
 OG6IPRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TPER  
 Page No: 3

OGRID Identifier : 778 BP AMERICA PRODUCTION COMPANY  
 Pool Identifier : 71629 BASIN FRUITLAND COAL (GAS)

API Well No : 30 39 26476 Report Period - From : 01 2000 To : 04 2004

API Well No	Property Name	Prodn. Days MM/YY Prod	Production Volumes Gas Oil Water	Well Stat
30	39 26476 CARRACAS UNIT 25 A	03 03 31	10416	370 F
30	39 26476 CARRACAS UNIT 25 A	04 03 30	9874	277 F
30	39 26476 CARRACAS UNIT 25 A	05 03 31	10111	287 F

Reporting Period Total (Gas, Oil) : 192814 5500

E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM  
 PF07 BKWD PF08 FWD PF09 PF10 NXTPool PF11 NXTOGD PF12



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**GARY E. JOHNSON**  
Governor  
**Jennifer A. Salisbury**  
Cabinet Secretary

**Lori Wrotenbery**  
Director  
**Oil Conservation Division**

July 10, 2000

**Vastar Resources, Inc.**  
**15375 Memorial Drive**  
**Houston, Texas 77079**  
**Attention: Michael Rodgers**

*Administrative Order NSL-4484*

Dear Mr. Rodgers:

Reference is made to the following: (i) your application dated June 19, 2000; and (ii) the New Mexico Oil Conservation Division's ("Division") records in Santa Fe, including the file on Division Case No. 9559: all concerning Vastar Resources, Inc.'s request for an off-pattern non-standard Basin-Fruitland coal gas well location for the proposed Carracas "25-A" Well No. 16 to be drilled 585 feet from the South line and 710 feet from the East line (Unit P) of Section 25, Township 32 North, Range 5 West, NMPM, Rio Arriba County, New Mexico. The E/2 of Section 25 is to be dedicated to this well in order to form a standard 320-acre stand-up gas spacing and proration unit for the Basin-Fruitland Coal (Gas) Pool.

By the authority granted me under the provisions of Rule 8 of the "*Special Rules and Regulations for the Basin-Fruitland Coal Gas Pool*," as promulgated by Division Order No. R-8768, as amended, the above-described unorthodox coal gas well location is hereby approved.

Sincerely,

Lori Wrotenbery  
Director

LW/MES/kv

cc: New Mexico Oil Conservation Division - Aztec  
U. S. Bureau of Land Management - Farmington  
U. S. Forest Service - Bloomfield

# Exhibit D

Attached to Request for Administrative Approval of an  
Unorthodox Location for Vastar's Carracas 25 A #16 Well in E2  
Section 25, T32N-R5W, NMPM, Rio Arriba County, New Mexico

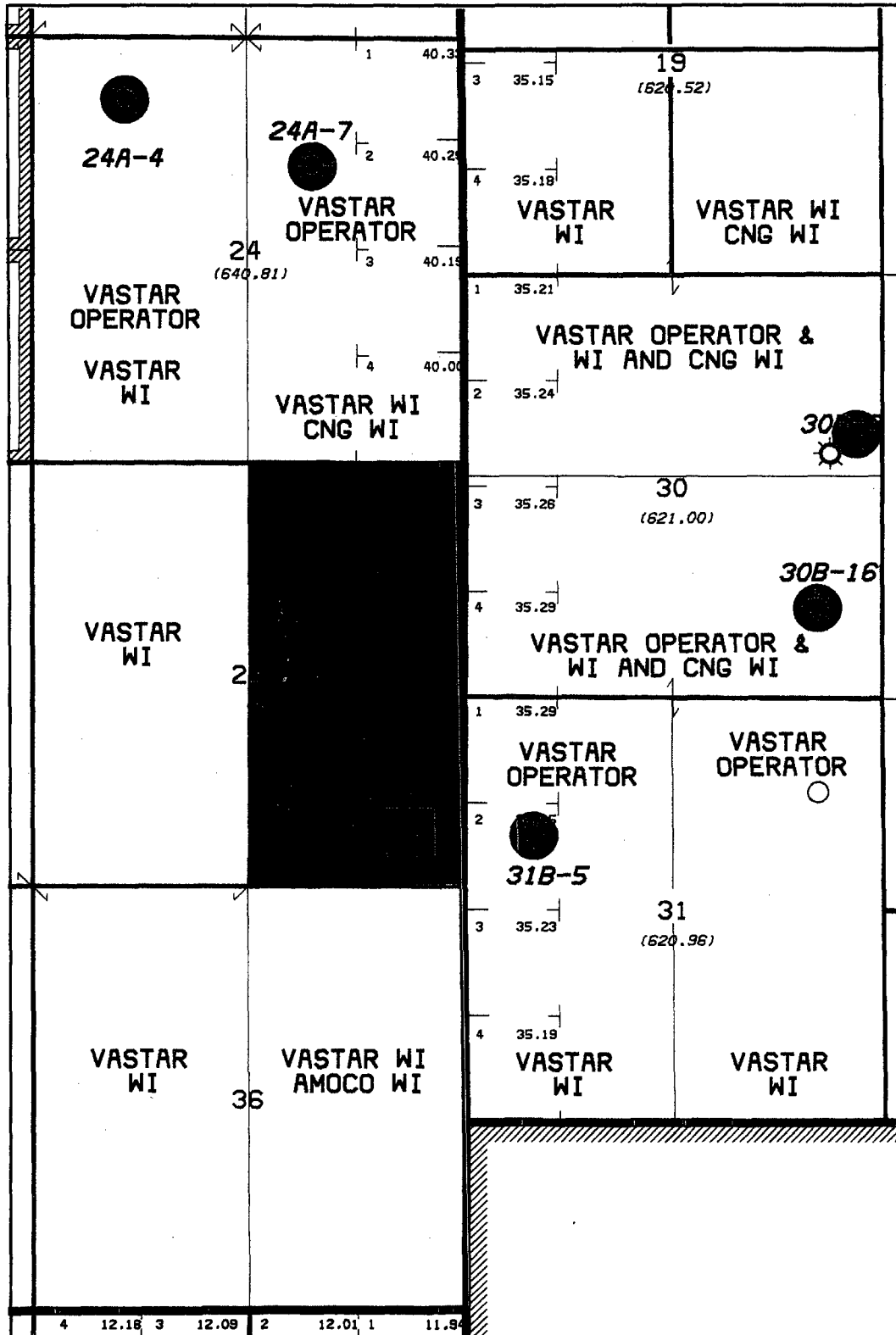


Exhibit E

Attached to Request for Administrative Approval of an  
Unorthodox Location for Vastar's Carracas 25 A #16 Well in E2  
Section 25, T32N-R5W, NMPM, Rio Arriba County, New Mexico

**List of Affected Parties**

CNG Producing Company  
Stephen E. Case, CPL  
16945 Northchase Drive – Suite 1750  
Houston, Texas 77060  
(281) 873-1574

Amoco Production Company  
Max K. Eddington, CPL/ESA  
Post Office Box 3092  
Houston, Texas 77253-3092  
(281) 366-3430

Bureau of Land Management  
Farmington Resource Area  
Authorized Officer  
1235 La Plata Highway – Suite A  
Farmington, New Mexico 87401

NMOCD – Aztec District Office  
1000 Rio Brazos Road  
Aztec, New Mexico 87410

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. NM 59704	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		7. UNIT AGREEMENT NAME 1-26297	
2. NAME OF OPERATOR VASTAR RESOURCES, INC.		8. FARM OR LEASE OR WELL NO. CARRACAS 25A #16	
3. ADDRESS AND TELEPHONE NO. 1816 E. MOJAVE, FARMINGTON NM 87401 (505) 599-4300		9. API WELL NO. 30-039-26476	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 585' FSL & 710' FEL At proposed prod. zone SAME		10. FIELD AND POOL, OR WILDCAT BASIN FRUITLAND COAL	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 41 MILES EAST-NORTHEAST OF BLOOMFIELD, NM		11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA SEC. 25, T-32N, R-5W	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 585'	16. NO. OF ACRES IN LEASE 1760	17. NO. OF ACRES ASSIGNED TO THIS WELL 320 E/2/1	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 7200'	19. PROPOSED DEPTH 3800'	20. ROTARY OR CABLE TOOLS ROTARY	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6976' GL		22. APPROX. DATE WORK WILL START* JULY, 2000	

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	400'	300 sx (354 cf) Circ. to Surf.
7-7/8"	5-1/2"	15.5#	3800'	900 sx (1730 cf) Circ. to Surf.



This action is subject to technical and procedural review pursuant to 43 CFR 3163.3 and appeal pursuant to 43 CFR 3165.4.

DRILLING AND OTHER AUTHORIZED ARE SUBJECT TO THE OIL WITH ATTACHED "GENERAL REQUIREMENTS"

IN ABOVE SPACE DESCRIBE PROPOSED 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.

23. Charles W. Knight, Jr. SIGNED ENGINEER (505) 599-4308 TITLE 6/12/00 DATE  
(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 applicant to conduct operations thereon.  
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY /s/ Jim Lovato TITLE Team Lead, Petroleum Management DATE AUG - 8 2000

\*See Instructions On Reverse Side



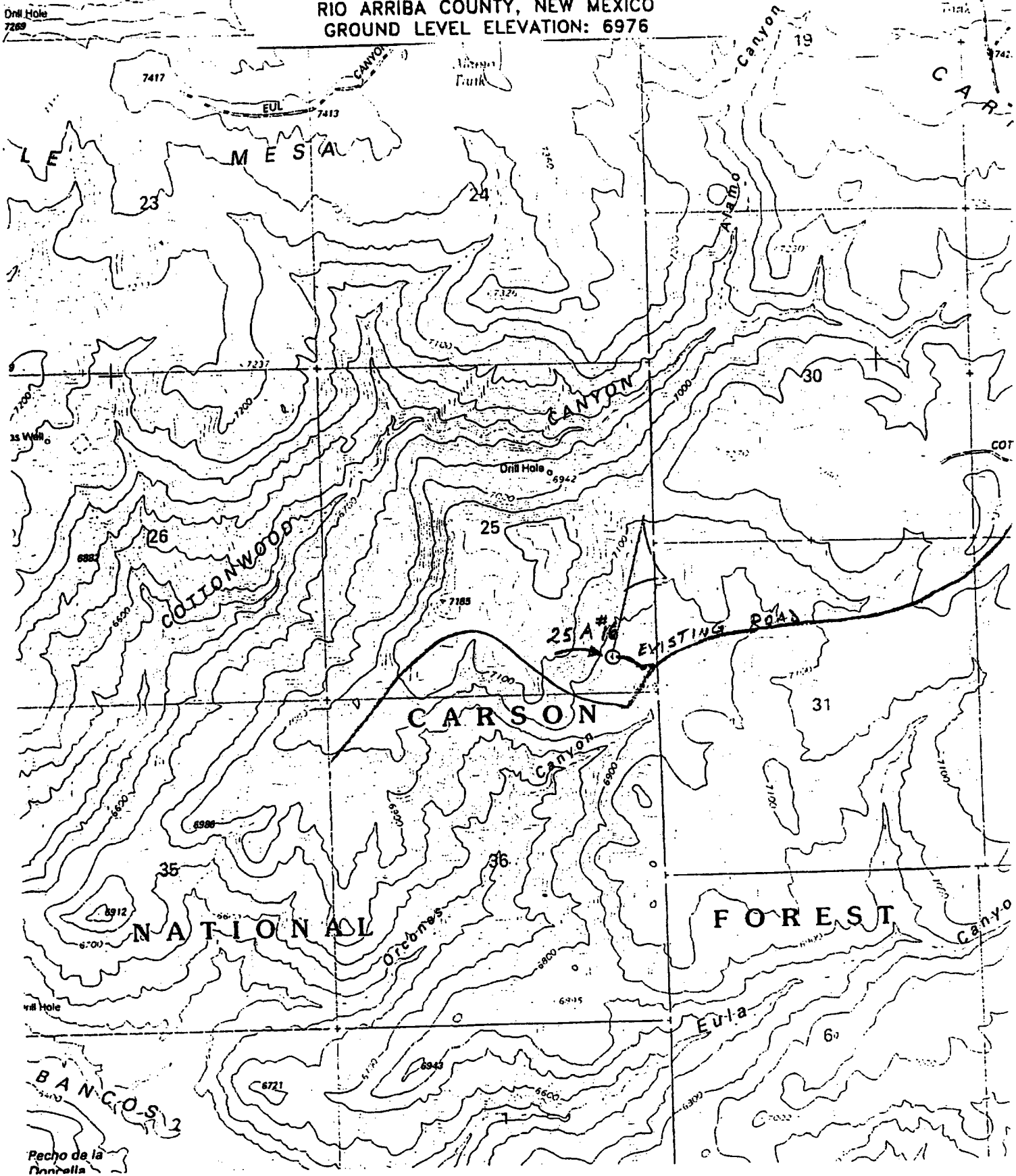
Form C-102  
Revised February 21, 1994  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies  
5 04 12:37 ☐ AMENDED REPORT

NSL 4484

VASTAR RESOURCES, INC.  
CARRACAS 25A #16

585' FSL, 710' FEL  
SE/4 SEC.25, T-32-N, R-5-W, N.M.P.M.,  
RIO ARriba COUNTY, NEW MEXICO  
GROUND LEVEL ELEVATION: 6976

Drill Hole  
7289



Vastar Resources, Inc.  
Carracas 25 A #16  
585' FSL, 710' FEL  
Sec 25, T32N, R5W  
Rio Arriba County, New Mexico

Page 1

## **DRILLING PLAN**

1. **FORMATION TOPS:** The estimated tops of geologic markers as follows:

Ojo Alamo	3133'
Kirkland	3223'
Fruitland	3552'

2. **ANTICIPATED DEPTHS OF OIL, GAS, AND WATER:**

Ojo Alamo	3133' - Water
Fruitland	3552' - Gas

All zones capable of oil, gas, or water production will be protected with 8 5/8" or 5 1/2" casing and cemented to surface.

3. **BLOWOUT PREVENTOR REQUIREMENTS:**

<u>Interval</u>	<u>Pressure Control Equipment</u>
Surface - 400'	No equipment necessary
400' - TD	10" 2000 psi Double Ram preventor, rotating head and choke manifold.

All BOPE will be hydraulically pressure tested when nipped up, after well control use and every thirty days. Pressure tests will be to the lesser of 2000 psi or to 70% of the minimum internal yield pressure of the casing.

Blind rams will be functioned on each trip out of the hole. All BOPE checks will be noted on the daily drilling reports.

Additional BOPE equipment includes a kelly cock, FO safety valve and an inside BOP.

SEE ATTACHED BOP DIAGRAM



**Vastar Resources, Inc.**

Joint Ventures and Land

15375 Memorial Drive  
Houston Texas 77079  
281 584-6000

June 19, 2000

Lori Wrontenberg, Director  
Oil Conservation Division  
New Mexico Department of Energy,  
Minerals and Natural Resources  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505

Re: Application of Vastar Resources, Inc. for Administrative Approval of an Unorthodox Well Location for its Carracas 25 A Well No. 16, to be located 585 feet from the South line and 710 feet from the East line of Section 25, Township 32 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico

Dear Ms. Wrotenberg:

Vastar Resources, Inc. hereby seeks administrative approval pursuant to the provisions of Rule 8 of the Special Rules and Regulations for the Basin-Fruitland Coal Gas Pool adopted on October 17, 1988, of an unorthodox well location for its 25 A Well No. 16, to be drilled in the Fruitland Coal formation at an unorthodox well location 585 feet from the South line and 710 feet from the East line of Section 25, Township 32 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. A standard 320-acre spacing unit comprising the E2 Section 25 will be dedicated to the well.

The well will be drilled to a depth of approximately 3800 feet to test the Fruitland Coal formation, Basin-Fruitland Coal Gas Pool.

This location in the Fruitland Coal formation is unorthodox because Rule 7 of the Special Rules and Regulations for the Basin-Fruitland Coal Gas Pool (Order No. R8768, as amended) provides for wells to be located in the NE/4 or SW/4 of a single governmental section and located no closer than 660 feet to any outer boundary of the proration unit nor closer than 10 feet to any interior quarter-quarter section line or subdivision inner boundary.

This unorthodox location is required by topographic conditions and Carson National Forest requirements. The proposed well is located at the end of an existing road and would be drilled on an existing pad that was previously built, but not drilled upon. The Forest Service has requested that new wells be placed along existing roads so as not to further impact the environment with new access roads.

Lori Wrontenberg, Director  
Oil Conservation Division  
New Mexico Department of Energy,  
Minerals and Natural Resources  
Carracas 2 A #11 Well  
June 19, 2000  
Page 2

Attached hereto as Exhibit A is a topographical map showing no standard location is available for the well on this spacing unit. Attached as Exhibit B and C are the C-102 Plat and the APD. These exhibits show that the unorthodox location is supported by the surface topography of the area.

Attached hereto as Exhibit D is a plat as required by Rule 104.F(3) showing the subject spacing unit, the proposed unorthodox well location, the offsetting wells and the diagonal and adjoining spacing units. Exhibit F lists parties affected by this application. A copy of this application, including a copy of the plat described above has been sent to these affected parties by certified mail-return receipt requested in accordance with Rule 1206(A)(5) advising them that if they have an objection to this application it must be filed in writing within twenty days from the date this notice was sent.

Copies of this request have also been provided to the Aztec Office and the Bureau of Land Management, Farmington District Office.

Very truly yours,

A handwritten signature in black ink, appearing to read "Michael Rodgers", with a long horizontal flourish extending to the right.

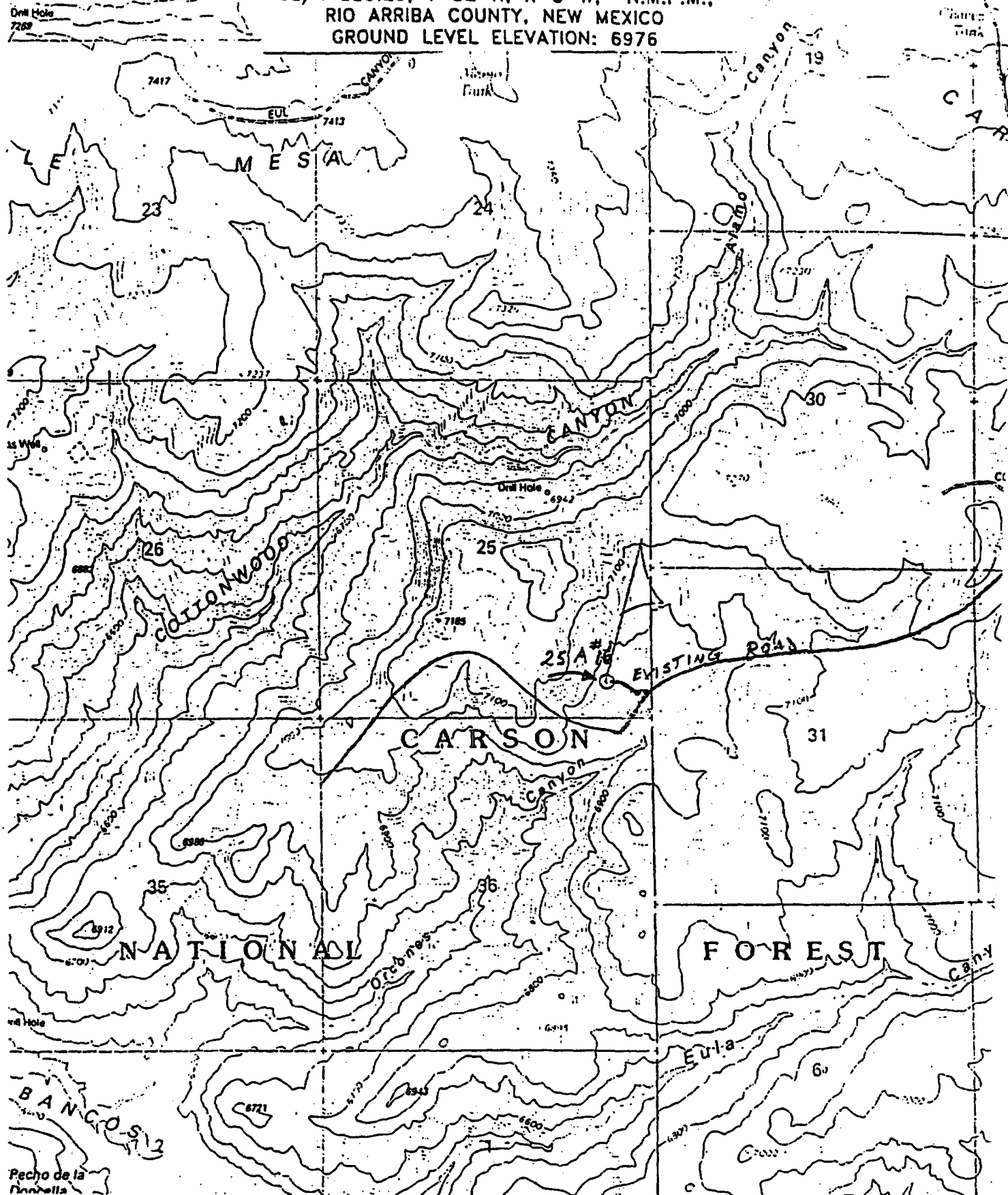
Michael Rodgers, CPL

Direct Line: (281) 584-3230  
Fax: (281) 584-6370  
E-mail: mrodger@vastar.com

Enclosures

585' FSL, 710' FEL  
SE/4 SEC.25, T-32-N, R-5-W, N.M.P.M.,  
RIO ARriba COUNTY, NEW MEXICO  
GROUND LEVEL ELEVATION: 6976

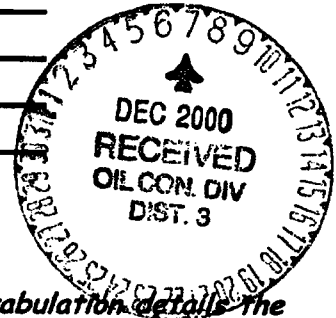
Drill Hole  
7269





**TABULATION OF DEVIATION TEST  
VASTAR RESOURCES, INC.**

DEPTH	DEVIATION	DEPTH	DEVIATION
220'	0.25	2979'	3.25
495'	2.00	3471'	3.75
750'	3.00	3870'	3.50
990'	3.50		
1493'	5.00		
1983'	5.25		
2489'	3.50		



**AFFIDAVIT**

**THIS IS TO CERTIFY** that to the best of my knowledge, the above tabulation details the deviation test taken on VASTAR RESOURCES, INC'S:

Carracas 25 A 16

585' FSL & 710' FEL Sec. 25, T32N, R5W

Rio Arriba County, New Mexico

Signed:

Title: SR. Regulatory Analyst

THE STATE OF TEXAS )  
 ) ss.  
COUNTY OF HARRIS )

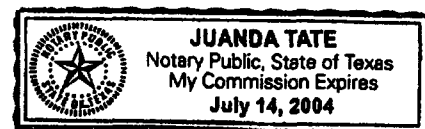
BEFORE ME, the undersigned authority, on this day personally MARY CORLEY known to me to be a SR. Regulatory Analyst for Vastar Resources and to be the person whose name is subscribed to the above statement, who being by me dully sworn on oath, states that she has knowledge of the facts stated herein and that said statement is true and correct.

SUBSCRIBED AND SWORN to before me, a Notary Public in and for said County and State this 5 day of December, 2000.

[Signature]  
Notary Public

My Commission Expires:

7/14/04





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 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

VASTAR RESOURCES, INC.

3. Address and Telephone No.

1816 E. MOJAVE ST., FARMINGTON, NM 87401 (505) 599-4300

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

SESE 585' FSL & 710' FEL SEC. 25, T-32N, R-5W

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

5. Lease Designation and Serial No.

NM 59704

6. If Indian, Alottee or Tribe Name

CARRACAS

7. If Unit or CA, Agreement Designation

8. Well Name and No.

CARRACAS 25 A # 16

9. API Well No.

30-039-26476

10. Field and Pool, or Exploratory Area

BASIN FRUITLAND COAL

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

- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other NEW WELL COMPLETION

- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report 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 depths for all markers and zones pertinent to this work.)

Reference Vastar's application for permit to drill dated 06/12/00 and BLM'S approval dated 08/08/00. Re-the subject well. Operator ran a CCL/GR/CNL fm 3789' to 2790' and perforated Fruitland Coals as follows: 3671-3673 (2'), 3687-3708 (21'), and 3748-3751 (3'). Total 26' w/ 4 spf, 104 holes w/ 0.42" diameter. Treat all perfs w/ 500 gal 10% formic acid followed w/ 99,035 gal 25# Delta Frac 140 gel w/ sandwedge containing 2130 sx 20/40 Brady Sand. Clean out 5 1/2" csg to 3806' (PBD) and ran 1.9" 2.76#, J-55, IJ 10RD tbg w/ 4 GLM'S, 'F' nipple and WLRG. No pkr, EOT @ 3655'. N.U. 2 3/8" X 2000# flanged tree and shut well in--WOPLC. Completion operations started on 10/16/00 and were finished on 10/26/00.

cc: BLM

N. Hall  
Well File

14. I hereby certify that the foregoing is true and correct

Signed [Signature]

Title WORKOVER SUPERVISOR

Date 10/26/2000

(This space for Federal or State office use)

Approved by \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

Conditions of approval, if any:

ACCEPTED FOR RECORD

DEC 6 2000

FARMINGTON FIELD OFFICE  
BY [Signature]

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

\*See Instruction on Reverse Side

NMOCU

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 deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT--" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil ☒ Gas  
☐ Well ☒ Well ☐ Other

2. Name of Operator

VASTAR RESOURCES, INC.

3. Address and Telephone No.

1816 E. MOJAVE ST., FARMINGTON, NM 87401 (505) 599-4300

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

SESE 585' FSL & 710' FEL SEC. 25, T-32N, R-5W

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

5. Lease Designation and Serial No.

NM 59704

6. Indian, Allottee or Tribe Name

CARRACAS

7. If Unit or CA, Agreement Designation

8. Well Name and No.

CARRACAS 25 A # 16

9. API Well No.

30-039-26476

10. Field and Pool, or Exploratory Area

BASIN FRUITLAND COAL

11. County or Parish, State

RIO ARRIBA, NM

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

TYPE OF SUBMISSION

☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other NEW WELL COMPLETION

☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report 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 depths for all markers and zones pertinent to this work.)

Reference Vastar's application for permit to drill dated 06/12/00 and BLM'S approval dated 08/08/00 .  
Re-the subject well. Operator ran a CCL/GR/CNL fm 3789' to 2790' and perforated Fruitland Coals as follows: 3671-3673 (2'), 3687-3708 (21'), and 3748-3751 (3'). Total 26' w/ 4 spf, 104 holes w/ 0.42" diameter. Treat all perms w/ 500 gal 10% formic acid followed w/ 99,035 gal 25# Delta Frac 140 gel w/ sandwedge containing 2130 sx 20/40 Brady Sand. Clean out 5 1/2" csg to 3806' (PBTD ) and ran 1.9" 2.76#, J-55, IJ 10RD tbg w/ 4 GLM'S, 'F' nipple and WLRG. No pkr, EOT @ 3655'. N.U. 2 3/8" X 2000# flanged tree and shut well in--WOPLC. Completion operations started on 10/16/00 and were finished on 10/26/00.

cc: BLM

N. Hall  
Well File

14. I hereby certify that the foregoing is true and correct

Signed [Signature]

Title WORKOVER SUPERVISOR

(This space for Federal or State office use)

Approved by \_\_\_\_\_

Title \_\_\_\_\_

Conditions of approval, if any:

ACCEPTED FOR RECORD

DEC 26 2000

FARMINGTON FIELD OFFICE  
BY [Signature]

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

\*See Instruction on Reverse Side

NAOCU

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 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

**VASTAR RESOURCES, INC.**

3. Address and Telephone No.

**1816 E. MOJAVE ST., FARMINGTON, NM 87401 (905) 599-4300**

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

**585' FSL, 710' FEL, Section 25, T32N, R5W**

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

5. Lease Designation and Serial No.

**NM 59704**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

**Carracas 25 A #16**

9. API Well No.

**30-039-26476**

10. Field and Pool, or Exploratory Area

**BASIN FRUITLAND COAL**

11. County or Parish, State

**RIO ARriba COUNTY, NM**

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

TYPE OF SUBMISSION

☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other **Drilling Operations**

☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report 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 depths for all markers and zones pertinent to this work.)

**10-1-00 Spud 13 3/4" hole @ 18:30. TD'd surface hole at 1020' on 10-3-00 @ 06:00. Ran 22 joints 8 5/8" 24# K-55 STC casing to 1003' and cemented with 780 sx Class H w/additives. Circulated 110 bbls cement to pit. Installed bradenhead & BOP. Tested BOP to 250 psi low 2000 psi high. Drilled out with 7 7/8" bit.**

**10-7-00 TD'd 7 7/8" hole at 3870' @ 16:00. Ran 94 joints 5 1/2" 17# K-55 LTC casing to 3850' and cemented with 914 sx Class H w/additives. Circulated 110 bbls cement to pit. CIP 19:25 10-11-00. ND BOP, NU Wellhead, RD.**

cc: BLM, Farmington (Or + 3)  
N. Hall  
Well File

14. I hereby certify that the foregoing is true and correct

Signed Charles W. King  
(This space for Federal or State office use)

Title Engineer 915 683-8000

**ACCEPTED FOR RECORD**

Approved by \_\_\_\_\_

Title \_\_\_\_\_

Date **DEC 06 2000**

Conditions of approval, if any:

**FARMINGTON FIELD OFFICE**

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

\*See instruction on Reverse Side

**NM000**



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor

Jennifer A. Salisbury

Cabinet Secretary

July 10, 2000

Lori Wrotenbery

Director

Oil Conservation Division



Vastar Resources, Inc.  
15375 Memorial Drive  
Houston, Texas 77079  
Attention: Michael Rodgers

Administrative Order NSL-4484

Dear Mr. Rodgers:

Reference is made to the following: (i) your application dated June 19, 2000; and (ii) the New Mexico Oil Conservation Division's ("Division") records in Santa Fe, including the file on Division Case No. 9559: all concerning Vastar Resources, Inc.'s request for an off-pattern non-standard Basin-Fruitland coal gas well location for the proposed Carracas "25-A" Well No. 16 to be drilled 585 feet from the South line and 710 feet from the East line (Unit P) of Section 25, Township 32 North, Range 5 West, NMPM, Rio Arriba County, New Mexico. The E/2 of Section 25 is to be dedicated to this well in order to form a standard 320-acre stand-up gas spacing and proration unit for the Basin-Fruitland Coal (Gas) Pool. Sec.

By the authority granted me under the provisions of Rule 8 of the "Special Rules and Regulations for the Basin-Fruitland Coal Gas Pool," as promulgated by Division Order No. R-8768, as amended, the above-described unorthodox coal gas well location is hereby approved.

Sincerely,

Lori Wrotenbery  
Director

LW/MES/kv

cc: New Mexico Oil Conservation Division - Aztec  
U. S. Bureau of Land Management - Farmington  
U. S. Forest Service - Bloomfield

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE\*  
(See other instructions  
on reverse side)

FOR APPROVED  
OMB NO. 1004-0137  
Expires: December 31, 1991

5. LEASE DESIGNATION AND SERIAL NO.  
**NM 59704**

WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

1 a. TYPE OF WELL:

OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER ☐ **NEW COMPLETION**

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. REPAIR ☐ OTHER ☐

2. NAME OF OPERATOR

**VASTAR RESOURCES, INC.**

3. ADDRESS AND TELEPHONE NO.

**1816 E. MOJAVE, FARMINGTON, NM 87401**

4. LOCATION OF WELL

(Report location clearly and in accordance with any State requirements)

At surface **585' FSL & 710' FEL**

At top prod. interval reported below **SAME**

At total depth **SAME**

14. PERMIT NO.

**JIM LOVATO**

DATE ISSUED

**08/08/00**

12. COUNTY OR PARISH

**RIO ARriba**

13. STATE

**NM**

15. DATE SPUDDED

**10/01/00**

16. DATE T.D. REACHED

**10/07/00**

17. DATE COMPL.

(Ready to prod.)

**10/26/00**

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*

**6987 KB**

**6976 GL**

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

**3870**

21. PLUG, BACK T.D., MD & TVD

**3806**

22. IF MULTIPLE COMPL.  
HOW MANY\*

23. INTERVALS  
DRILLED BY

**→**

ROTARY TOOLS

**0-3870**

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)\*

**FRUITLAND 3671-3751**

26. TYPE ELECTRIC AND OTHER LOGS RUN

**CCL/GR/CNL & MUD LOG**

28. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB/FT	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8 5/8 J-55	24	1003	13 3/4	GL 780SX	NONE
5 1/2 K-55	17	3850	7 7/8	GL 1024SX	NONE

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					1.9	3655	None

31. PERFORATION RECORD (Interval, size and number)

**3671-3673 (2'), 3687-3708 (21'), and  
3748-3751 (3'), Total 26' w/ 4 spf, 104 holes  
w/ 0.42" dia.**

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
<b>3671-3751</b>	<b>500 GAL 10% Formic acid</b>
	<b>followed w/ 99,035 gal 25# Delta</b>
	<b>Frac 140 gel w/sw containing</b>
	<b>2130 sx 20/40 Brady sand.</b>

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump)				WELL STATUS (Producing or shut-in)	
						SI-WOPLC	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL - BBL.	GAS - MCF.	WATER - BBL.	GAS-OIL RATIO
			→				
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL - BBL.	GAS - MCF.	WATER - BBL.	OIL GRAVITY - API (CORR.)	
		→				ACCEPTED FOR RECORD	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

**DEC 06 2000**

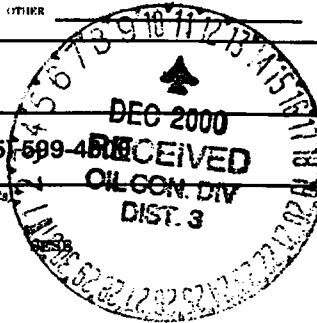
35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED *Don M. [Signature]* TITLE **WORKOVER SUPERVISOR** DATE **10/27/2000**

(See Instructions and Spaces for Additional Data on Reverse Side)

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



FARMINGTON FIELD OFFICE

BY *[Signature]*

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 re-enter an  
abandoned well. Use form 3160-3 (APD) for such proposals.*

FORM APPROVED

OMB NO. 1004-0135

Expires: November 30, 2000

5. Lease Serial No.

NM - 59704

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement Name and/or No.

8. Well Name and No.

GARRACAS 25 A 16

9. API Well No.

300392647 **6**

10. Field and Pool, or Exploratory Area

BASIN FRUITLAND COAL

11. County or Parish, and State

ARRIBA NM

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well ☐ Oil Well ☒ Gas Well Other

2. Name of Operator  
VASTAR RESOURCES, INC.

3a. Address P.O. BOX 3092  
HOUSTON, TX 77253

3b. Phone No.(include area code)  
281.366.4491

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

710FEL 585FSL

**25-32N-SW**

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Formation Tops as per your request: Ojo Alamo 3120' Kirtland 3214' Main Coal 3690' PCCF 3764'



Electronic Submission #2451 verified by the BLM Well Information System for VASTAR RESOURCES, INC. Sent to the Farmington Field Office  
Committed to AFMSS for processing by Maurice Johnson on 01/31/2001

Name (Printed/Typed) **MARY CORLEY**

Title **AUTHORIZED REPRESENTATIVE**

Signature

Date **01/26/2001**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE ACCEPTED FOR RECORD**

Approved By

Title

**01/26/2001**

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

**IV** **SW**

Form 3160-5  
(August 1999)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 re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposalsFORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

5. Lease Serial No.

NM - 59704

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.

CARRACAS 25 A 16

9. API Well No.

3003926477

10. Field and Pool, or Exploratory

BASIN FRUITLAND COAL

11. County or Parish, State

ARRIBA, NM

1. Type of Well:

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator VASTAR RESOURCES, INC.

CONTACT: MARY CORLEY AUTHORIZED REPRESENTATIVE

EMAIL: corleyml@bp.com

3a. Address P.O. BOX 3092  
HOUSTON, TX 77253

3b. Phone No. (include area code)

TEL: 281.366.4491 EXT:

FAX: 281.366.0700

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

P- Sec 25 T32N R5W SESE 585FSL 710FEL

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

TYPE OF SUBMISSION	TYPE OF ACTION				
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-off	
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> OTHER SUNDRY NOTICE	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal		

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give the subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with the BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of involved operations. If the operation results in multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

## CORRECTED LEASE NAME PREVIOUSLY SUBMITTED AS GARRACAS

Formation Tops as per your request:

Ojo Alamo 3120'

Kirtland 3214'

Main Coal 3690'

PCCC 3764'



Name (Printed/Typed)

Title

Signature

Date

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

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

ELECTRONIC SUBMISSION #2453 VERIFIED BY THE BLM WELL INFORMATION SYSTEM FOR VASTAR RESOURCES, INC. SENT TO THE FARMINGTON FIELD OFFICE

District I  
PO Box 1980, Hobbs, NM 88241-1980  
District II  
811 South First, Artesia, NM 88210  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

Form C-104

Revised October 18, 1994

Instructions on back

Submit to Appropriate District Office

5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

Operator name and Address Vastor Resources, Inc. Attn. Mary Corley P.O. Box 3092 Houston, TX 77253		OGRID Number 036619
API Number 30 - 039-26476	Pool Name Basin Fruitland Coq	Reason for Filing Code New Well
Property Code	Property Name Carracas 25 A	Pool Code 71629
		Well Number 16

II. <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
P	25	32N	05W		585'	South	710'	East	Rio Arriba

<sup>11</sup> Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Lee Code F	Producing Method Code F	Gas Connection Date	C-129 Permit Number	C-129 Effective Date	C-129 Expiration Date				

III. Oil and Gas Transporters

Transporter OGRID	Transporter Name and Address	POD	O/G	POD ULSTR Location and Description
036619	Vastor Resources, Inc. 1816E Mojave Farmington, NM 87401	2828012	G	

IV. Produced Water

POD	POD ULSTR Location and Description
2828013	

V. Well Completion Data

Spud Date	Ready Date	TD	PBTD	Perforations	DHC, DC, MC
10/01/2000	10/26/2000	3870'	3806'	3671' - 3751'	
Hole Size	Casing & Tubing Size	Depth Set	Sacks Cement		
13 1/4"	8 5/8" 24#	1003'	780 SXS		
7 7/8"	5 1/2" 17#	3850'	914 1024 SXS		
Tubing	1.9"	3655'			

VI. Well Test Data

Date New Oil	Gas Delivery Date	Test Date	Test Length	Tbg. Pressure	Csg. Pressure
		SI - WOPLC			
Choke Size	Oil	Water	Gas	AOF	Test Method
I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Mary Corley</i>			OIL CONSERVATION DIVISION Approved by: ORIGINAL SIGNED BY CHARLIE T. PERPIN Title: DEPUTY OIL & GAS INSPECTOR, DIST. 3 Approval Date: MAR - 2 2001		
Printed name: Mary Corley Title: Sr. Regulatory Analyst			Date: 12/05/2000 Phone: 281-366-4491		
If this is a change of operator fill in the OGRID number and name of the previous operator					
Previous Operator Signature		Printed Name		Title	Date

X



District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-104A  
March 19, 2001

Submit 1 copy of the final affected wells  
list along with 1 copy of this form per  
number of wells on that list to appropriate  
District Office

### Change of Operator

#### Previous Operator Information:

OGRID: 036619  
Name: Vastar Resources Inc.  
Address: P.O. Box 3092  
Address: \_\_\_\_\_  
City, State, Zip: Houston, Texas 77253

#### New Operator Information:

Effective Date: 12/31/2001  
New Ogrid: 000778  
New Name: BP America Production Company  
Address: P.O. Box 3092  
Address: \_\_\_\_\_  
City, State, Zip: Houston, TX 77253

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information on this form and the attached list of wells is true and complete to the best of my knowledge and belief.

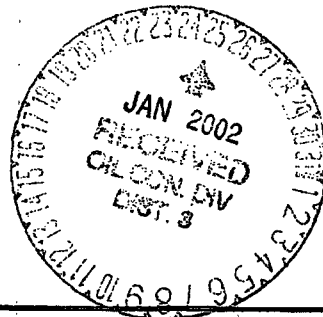
New Operator

Signature: Mary Corley

Printed name: Mary Corley

Title: Sr. Regulatory Specialist

Date: 12/10/2001 Phone: 281-366-4491



Previous operator complete below:

Previous

Operator: Vastar Resources Inc.

Previous

OGRID: 036619

Signature: Mary Corley

Printed

Name: Mary Corley

#### NMOCD Approval

Signature: \_\_\_\_\_

Printed

Name: 27.8

SUPERVISOR DISTRICT #3

District: \_\_\_\_\_

JAN 25 2002

Date: \_\_\_\_\_

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Form C-104A  
Revised June 10, 2003

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Submit 1 copy of the final affected wells  
list along with 1 copy of this form per  
number of wells on that list to appropriate  
District Office

**Change of Operator**

**Previous Operator Information:**

OGRID: 000778  
Name: BP AMERICA PRODUCTION CO.  
Address: P.O. BOX 3092  
Address: \_\_\_\_\_  
City, State, Zip: HOUSTON, TX 77253

**New Operator Information:**

Effective Date: 06/01/2003  
New Ogrid: 162928  
New Name: ENERGEN RESOURCES CORP.  
Address: 2198 BLOOMFIELD HIGHWAY  
Address: \_\_\_\_\_  
City, State, Zip: FARMINGTON, NM 87401

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information on this form and the attached list of wells is true and complete to the best of my knowledge and belief.

New Operator  
Signature: \_\_\_\_\_

Printed name: GARY W. BRINK

Title: GENERAL MANAGER - SAN JUAN BASIN

E-mail

Address: gbrink@energen.com

Date: 08/25/03

Phone: 505-325-6800



**Previous operator complete below:**

Previous

Operator: BP AMERICA PRODUCTION COMPANY

Previous

OGRID: 000778

Signature: \_\_\_\_\_

Printed

Name: MARY CORLEY

E-mail

Address: \_\_\_\_\_

**NMOCD Approval**

Signature: \_\_\_\_\_

Printed

Name: \_\_\_\_\_

37.8  
SUPERVISOR DISTRICT #3

District: \_\_\_\_\_

AUG 27 2003

Date: \_\_\_\_\_

CMD : ONGARD 05/12/04 14:28:43  
OG6IWCN INQUIRE WELL COMPLETIONS OGO MES -TPER

API Well No : 30 39 24417 Eff Date : 06-01-2003 WC Status : A  
Pool Idn : 71629 BASIN FRUITLAND COAL (GAS)  
OGRID Idn : 162928 ENERGEN RESOURCES CORPORATION  
Prop Idn : 32951 CARRACAS UNIT 31 B

Well No : 005  
GL Elevation: 6960

U/L Sec Township Range North/South East/West Prop/Act (P/A)  
-----  
B.H. Locn : 2 31 32N 04W FTG 1770 F N FTG 830 F W P  
Lot Identifier:  
Dedicated Acre: 320.00  
Lease Type : F  
Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

M0025: Enter PF keys to scroll  
PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06  
PF07 PF08 PF09 PF10 NEXT-WC PF11 HISTORY PF12 NXTREC

CMD :  
OG6ACRE

ONGARD  
C102-DEDICATE ACREAGE  
05/12/04 14:28:50  
OGOMES -TPER  
Page No : 1

API Well No : 30 39 24417 Eff Date : 04-30-1991  
Pool Idn : 71629 BASIN FRUITLAND COAL (GAS)  
Prop Idn : 32951 CARRACAS UNIT 31 B  
Spacing Unit : 8641 OCD Order :  
Sect/Twp/Rng : 31 32N 04W Acreage : 320.00  
Dedicated Land: Simultaneous Dedication:  
Revised C102? (Y/N) :

S	Base U/L	Sec	Twp	Rng	Acreage	L/W	Ownership	Lot Idn
	C	31	32N	04W	40.00	N	FD	
	F	31	32N	04W	40.00	N	FD	
	K	31	32N	04W	40.00	N	FD	
	N	31	32N	04W	40.00	N	FD	
	D	1	31	32N	04W	35.29	N	FD
	E	2	31	32N	04W	35.25	N	FD
	L	3	31	32N	04W	35.23	N	FD
	M	4	31	32N	04W	35.19	N	FD

E0005: Enter data to modify or PF keys to scroll  
PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06 CONFIRM  
PF07 BKWD PF08 FWD PF09 PF10 LAND PF11 NXTSEC PF12 RECONF

CMD : ONGARD 05/12/04 14:28:59  
 OG6IPRD INQUIRE PRODUCTION BY POOL/WELL OGMES -TPER  
 Page No: 1

OGRID Identifier : 778 BP AMERICA PRODUCTION COMPANY  
 Pool Identifier : 71629 BASIN FRUITLAND COAL (GAS)

API Well No : 30 39 24417 Report Period - From : 01 2002 To : 04 2004

API Well No	Property Name	Prodn. Days MM/YY Prod	Production Volumes Gas Oil Water	Well Stat
30	39 24417 CARRACAS UNIT 31 B	01 02 31	1768	340 F
30	39 24417 CARRACAS UNIT 31 B	02 02 28	1983	369 F
30	39 24417 CARRACAS UNIT 31 B	03 02 31	2251	422 F
30	39 24417 CARRACAS UNIT 31 B	04 02 30	1875	284 F
30	39 24417 CARRACAS UNIT 31 B	05 02 31	1833	290 F
30	39 24417 CARRACAS UNIT 31 B	06 02 30	1728	440 F
30	39 24417 CARRACAS UNIT 31 B	07 02 31	1837	292 F

Reporting Period Total (Gas, Oil) :

M0025: Enter PF keys to scroll

PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06 CONFIRM  
 PF07 BKWD PF08 FWD PF09 PF10 NXTPool PF11 NXTOGD PF12

CMD :  
OG6IPRD

05/12/04 14:29:02  
OGOMES -TPER  
Page No: 2

ONGRID Identifier : 778 BP AMERICA PRODUCTION COMPANY  
Pool Identifier : 71629 BASIN FRUITLAND COAL (GAS)

API Well No : 30 39 24417 Report Period - From : 01 2002 To : 04 2004

API Well No	Property Name	Prodn. Days MM/YY Prod	Production Volumes Gas Oil Water Stat	Well
30	39 24417 CARRACAS UNIT 31 B	08 02 31	1813	332 F
30	39 24417 CARRACAS UNIT 31 B	09 02 30	1640	270 F
30	39 24417 CARRACAS UNIT 31 B	10 02 31	1827	229 F
30	39 24417 CARRACAS UNIT 31 B	11 02 30	1897	225 F
30	39 24417 CARRACAS UNIT 31 B	12 02 31	2062	191 F
30	39 24417 CARRACAS UNIT 31 B	01 03 31	2038	221 F
30	39 24417 CARRACAS UNIT 31 B	02 03 28	1808	203 F

Reporting Period Total (Gas, Oil) :

E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06 CONFIRM  
PF07 BKWD PF08 FWD PF09 PF10 NXTPool PF11 NXTOGD PF12

CMD :  
 OGGIPRD  
 OGRID Identifier : 778 BP AMERICA PRODUCTION COMPANY  
 Pool Identifier : 71629 BASIN FRUITLAND COAL (GAS)  
 API Well No : 30 39 24417 Report Period - From : 01 2002 To : 04 2004

05/12/04 14:29:04  
 OGOMES -TPER  
 Page No: 3

API Well No	Property Name	Prodn. Days MM/YY Prod	Production Volumes Gas Oil Water	Well Stat
30	39 24417 CARRACAS UNIT 31 B	03 03 31	1927	217 F
30	39 24417 CARRACAS UNIT 31 B	04 03 30	1886	224 F
30	39 24417 CARRACAS UNIT 31 B	05 03 31	1943	234 F

Reporting Period Total (Gas, Oil) : 32116 4783

E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06 CONFIRM  
 PF07 BKWD PF08 FWD PF09 PF10 NXTPool PF11 NXTOGD PF12

STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
DIVISION FOR THE PURPOSE OF  
CONSIDERING:

CASE NO. 9559  
ORDER NO. R-8844

APPLICATION OF NASSAU RESOURCES, INC.  
FOR NINETEEN UNORTHODOX COAL GAS  
WELL LOCATIONS, RIO ARriba COUNTY,  
NEW MEXICO

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on December 21, 1988, at Santa Fe, New Mexico, before Examiner Michael E. Stogner.

NOW, on this 17th day of January, 1989, the Division Director, having considered the testimony, the record and the recommendations of the Examiner, and being fully advised in the premises,

FINDS THAT:

- (1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- (2) At the time of the hearing this case was consolidated with Division Case No. 9560 for the purpose of testimony.
- (3) The applicant, Nassau Resources, Inc., seeks approval of 19 unorthodox coal gas well locations, as described in Exhibit "A" attached hereto and made a part hereof, to test the Basin-Fruitland Coal (Gas) Pool, Rio Arriba County, New Mexico.
- (4) On October 17, 1988, the Division entered Order R-8768 which adopted Special Rules for the Basin-Fruitland Coal (Gas) Pool including RULE 7 which provides in part that the first well drilled in a 320-acre unit shall be located in either the NE/4 or SW/4 of a governmental section and that it be located no closer than 790 feet to the outer boundary of the spacing unit.
- (5) Prior to the adoption of the rules for this pool, the applicant in this case, Nassau Resources, Inc., formed the Carracas Canyon Unit in Rio Arriba County, New Mexico, 97.7 percent of which acreage is federal leases.



(6) The preliminary drilling by the applicant in the unit area has provided sufficient information to reasonably conclude that a substantial portion of the unit can be developed for Basin-Fruitland Coal (Gas) production.

(7) The Carracas Canyon Unit in Rio Arriba County, New Mexico, lies almost entirely within the Carson National Forest with all surface use including location of these wells subject to the jurisdiction of the United States Forest Service and to the Carson National Forest Land and Resource Management Plan.

(8) Included among the surface use restrictions for well locations, roads and pipelines to access these wells within the Carracas Canyon Unit were topographical restrictions concerning soil conservation, steepness of slope, limitation on grade for roads, forest preservation, wildlife habitat management and archeological/historical artifact preservation.

(9) The applicant with due diligence has attempted in each section of the unit to locate two wells at locations which would conform to standard well locations under the current RULE 7 of Order No. R-8768. Said U.S. Forest Service Management Plan in the Carson National Forest requires that future use of the Carracas Canyon area surfaces involves maximizing the use of existing roads and minimizing construction of new roads.

(10) For each spacing unit for the proposed nineteen unorthodox coal gas well locations, the applicant has been unable to locate and obtain U.S. Forest Service approval for a standard well location within that proposed spacing unit.

(11) The District Forest Ranger for the Jicarilla Ranger District, whose area encompasses the subject unit area, testified on behalf of the applicant at the hearing that each of the proposed nineteen unorthodox gas well locations has either been approved or is acceptable. His testimony also indicated that in some instances while a surface location may be possible at a standard well location, there is no acceptable location for the necessary roads and pipeline rights of way to access the well locations.

(12) While the proposed nineteen wells are off-pattern locations under the Special Rules for the Basin-Fruitland Coal (Gas) Pool, they will provide for an orderly development of the unit on 320-acre spacing patterns.

(13) No interest owner in the unit nor any interested party adjoining the unit appeared and objected to this application.

(14) The District Ranger also provided supporting testimony which indicates that approval of this application would enable the applicant and the United States Forest Service to implement an orderly plan for exploration and development which is consistent with oil and gas conservation and will not adversely impact environmental concerns.

Case No. 9559  
Order No. R-8844  
Page No. 3

(15) Approval of the subject application will afford the applicant the opportunity to produce its just and equitable share of the coal gas in the affected pool, will prevent the economic loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells and will otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED THAT:

(1) The application of Nassau Resources, Inc. for exceptions to RULE 7 of Division Order No. R-8768 allowing 19 unorthodox coal gas well locations, as shown on Exhibit "A" attached hereto and made a part hereof, within their Carracas Canyon Unit Area, Rio Arriba County, New Mexico, for the Basin-Fruitland Coal (Gas) Pool is hereby approved.

(2) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

*Victor 2. Lyon*

*for* WILLIAM J. LEMAY  
Director

S E A L

EXHIBIT "A"  
CASE NO. 9559  
ORDER NO. R-8844

WELL LOCATION

<u>WELL NAME AND NUMBER</u>	<u>FOOTAGE</u>	<u>U-S-T-R</u>	<u>DEDICATED ACREAGE</u>
Carracas Unit 17-B No. 15	650 FSL - 2070 FEL	O-17-32N-4W	E/2 (320 acres)
Carracas Unit 19-B No. 4	1170 FNL - 830 FWL	D-19-32N-4W	Lots 1, 2, 3, 4 and the E/2 W/2 (300.52 acres)
Carracas Unit 21-B No. 5	1655 FNL - 1185 FWL	E-21-32N-4W	N/2 (320 acres)
Carracas Unit 25-B No. 15	640 FSL - 1500 FEL	O-25-32N-4W	E/2 (320 acres)
Carracas Unit 26-B No. 16	790 FS & EL	P-26-32N-4W	E/2 (320 acres)
Carracas Unit 27-B No. 5	1740 FNL - 1800 FWL	E-27-32N-4W	N/2 (320 acres)
Carracas Unit 30-B No. 16	1100 FSL - 790 FEL	P-30-32N-4W	Lots 3 and 4, the E/2 SW/4, and the SE/4 (310.55 acres)
Carracas Unit 31-B No. 5	1770 FNL - 830 FWL	E-31-32N-4W	Lots 1, 2, 3, 4 and the E/2 W/2 (300.96 acres)
Carracas Unit 32-B No. 5	1630 FNL - 790 FWL	E-32-32N-4W	N/2 (320 acres)
Carracas Unit 33-B No. 4	1160 FNL - 1060 FWL	D-33-32N-4W	W/2 (320 acres)
Carracas Unit 33-B No. 16	790 FSL - 1950 FEL	P-33-32N-4W	E/2 (320 acres)
Carracas Unit 35-B No. 9	1850 FSL - 790 FEL	I-35-32N-4W	E/2 (320 acres)
Carracas Unit 36-B No. 15	1190 FSL - 1850 FEL	O-36-32N-4W	E/2 (320 acres)
Carracas Unit 14-A No. 4	790 FN & WL	D-14-32N-5W	N/2 (320 acres)
Carracas Unit 15-A No. 16	200 FSL - 500 FEL	P-15-32N-5W	S/2 (320 acres)
Carracas Unit 21-A No. 15	790 FSL - 1850 FEL	O-21-32N-5W	E/2 (320 acres)
Carracas Unit 22-A No. 16	790 FS & EL	P-22-32N-5W	E/2 (320 acres)
Carracas Unit 25-A No. 16	640 FSL - 710 FEL	P-25-32N-5W	E/2 (320 acres)
Carracas Unit 36-A No. 5	1450 FNL - 910 FWL	E-36-32N-5W	W/2 (320 acres)

STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION

CASE NO. 9559  
ORDER NO. R-8844-A

APPLICATION OF NASSAU RESOURCES, INC.  
FOR NINETEEN UNORTHODOX COAL GAS WELL  
LOCATIONS, RIO ARRIBA COUNTY, NEW MEXICO

NUNC PRO TUNC ORDER

BY THE DIVISION:

It appearing to the Division that Order No. R-8844 dated January 17, 1989, does not correctly state the intended order of the Division,

IT IS THEREFORE ORDERED THAT:

(1) The location of the Carracas Unit 27-B Well No. 5 as described on Exhibit "A", which is attached to Division Order No. R-8844 and made a part thereof, be and the same is hereby corrected to read as follows:

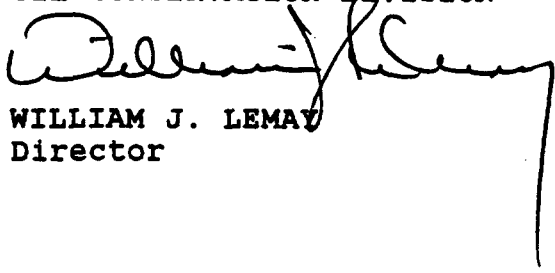
FOOTAGE

"1740 FNL' - 800' FWL;"

(2) The corrections set forth in this order be entered nunc pro tunc as of January 17, 1989.

DONE at Santa Fe, New Mexico, on this 2nd day of June, 1989.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

  
WILLIAM J. LEMAY  
Director

S E A L

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. TYPE OF WORK  
DRILL ☒ DEEPEN ☐ PLUG BACK ☐

2. TYPE OF WELL  
OIL WELL ☐ GAS WELL ☒ OTHER ☐

3. NAME OF OPERATOR  
NASSAU RESOURCES, INC.

4. ADDRESS OF OPERATOR  
P.O. Box 809, Farmington, N.M. 87499

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
At surface

1770' FNL - 830' FWL  
At proposed prod. zone

6. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
± 30 miles N. of Gobernador, N.M.

7. DISTANCE FROM PROPOSED\*  
LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drg. unit line, if any) 830'

8. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT. 1-1/4 miles

9. NO. OF ACRES IN LEASE  
2,482.20

10. PROPOSED DEPTH  
3805'

11. NO. OF ACRES ASSIGNED  
TO THIS WELL

12. ROTARY OR CABLE TOOLS  
Rotary

13. ELEVATIONS (Show whether DF, RT, GR, etc.)  
6960' GL; 6972' KB

SUBJECT TO COMPLIANCE WITH ATTACHED  
"GENERAL REQUIREMENTS"

14. APPROX. DATE WORK WILL START\*  
10/15/88

15. PROPOSED CASING AND CEMENTING PROGRAM

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

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	36#	250'	150 cu.ft. circ. to surface.
7-7/8"	5-1/2"	15.5#	3805'	595 cu.ft. circ. to surface.

Plan to drill with spud mud to set 250' of surface casing. Will then drill with water and gel-chem. mud to test the Fruitland coal zone at ± 3805'. Will run DIL-GR-SP and FCD-CNL-GR Caliper logs. If well appears productive, will set 5-1/2" casing at TD, cement in 1 stage, selectively perforate, frac, clean out after frac and complete with 2-7/8" tubing.

GAS IS NOT DEDICATED.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, 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 prevention program, if any.

24. SIGNED James S. Hagan TITLE Field Supt. DATE 9-12-88  
(This space for Federal or State office use)

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

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

APPROVED KV  
AS AMENDED  
DATE MAY 01 1989  
John Shell  
AREA MANAGER

NMOC

\*See Instructions On Reverse Side

# OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

Form C-102  
Revised 10-1-78

All distances must be from the outer boundaries of the Section.

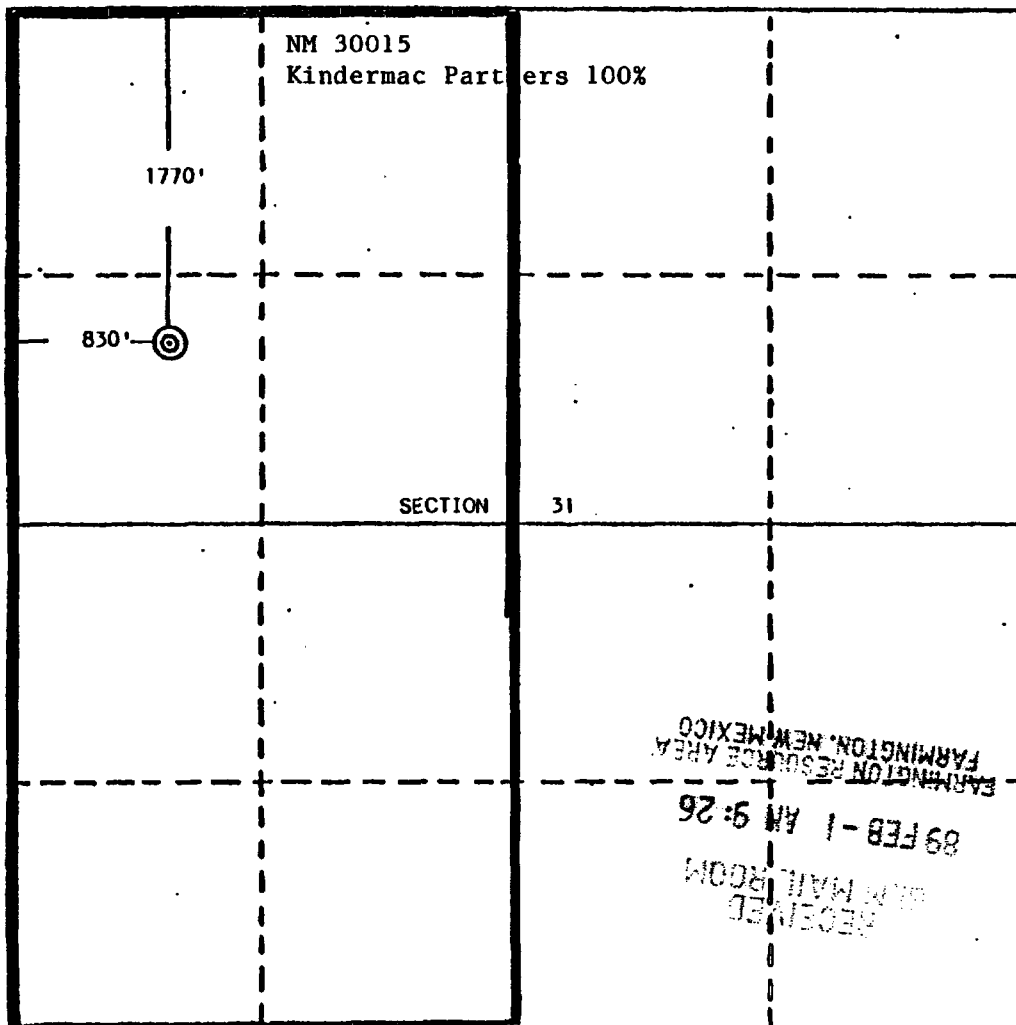
Operator <b>Nassau Resources, Inc.</b>			Lease <b>Carracas Unit 31 B</b>		Well No. <b>5</b>
Unit Letter <b>E</b>	Section <b>31</b>	Township <b>32 North</b>	Range <b>4 West</b>	County <b>Rio Arriba</b>	
Actual Footage Location of Well: <div style="display: flex; justify-content: space-between;"> <span>1770 feet from the North line and</span> <span>830 feet from the West line</span> </div>					
Ground Level Elev. <b>6960</b>	Producing Formation <b>Fruitland</b>	Pool <b>Basin Fruitland Coal</b>		Dedicated Acreage <b>300.96 Acres</b>	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

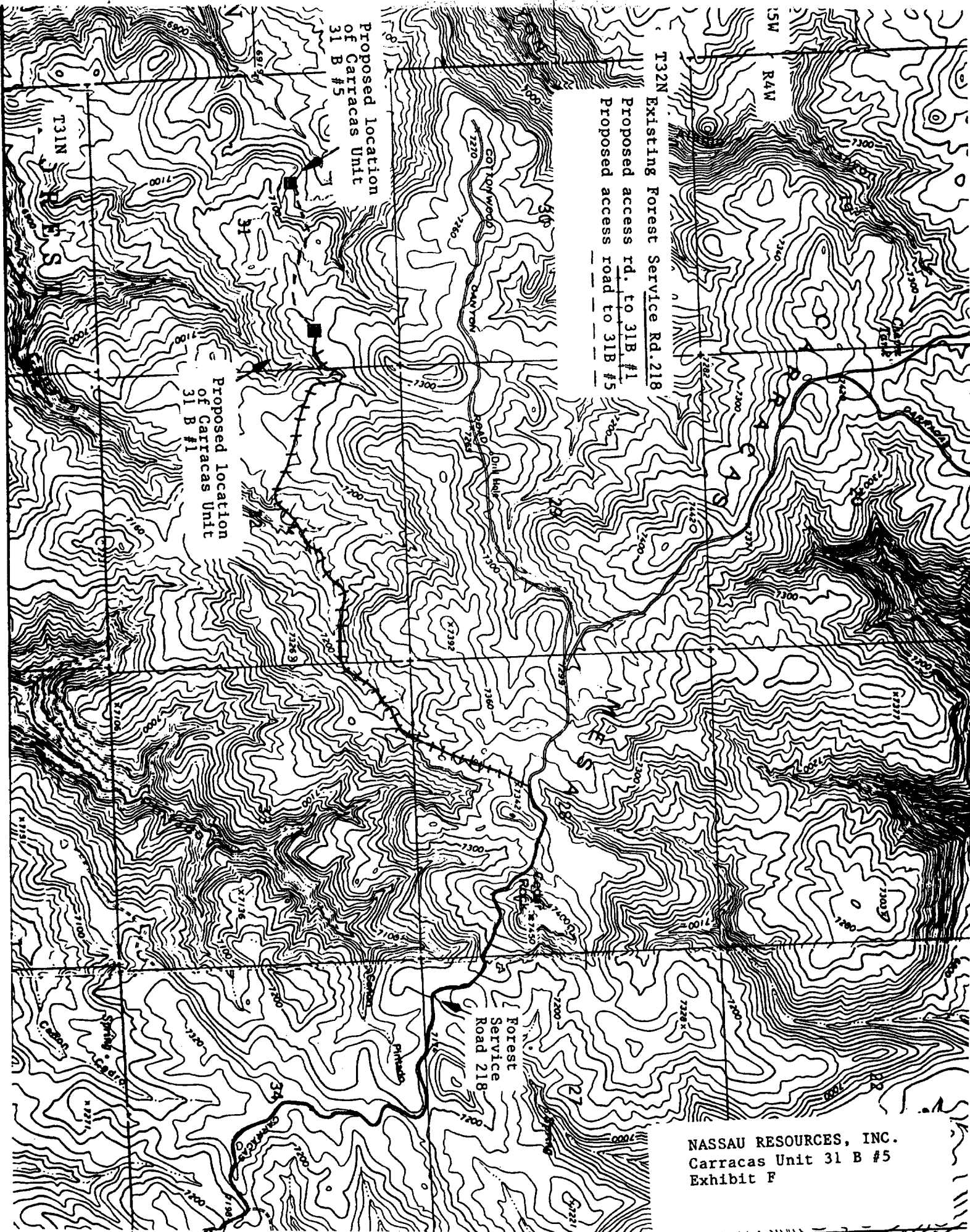
☒ Yes    ☐ No    If answer is "yes," type of consolidation Unitization - Carracas Unit

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Division.



<b>CERTIFICATION</b>	
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
<i>Fran Perrin</i>	
Name <b>Fran Perrin</b>	
Position <b>Admin. Asst.</b>	
Company <b>Nassau Resources, Inc.</b>	
Date <b>1/31/89</b>	
Date Surveyed <b>August 25, 1988</b>	
Registered Professional Engineer and/or Land Surveyor <i>Edgar L. Risenhower</i>	
Certificate No. <b>5070</b>	



NASSAU RESOURCES, INC.  
Carracas Unit 31 B #5  
Exhibit F

T. 32 N.

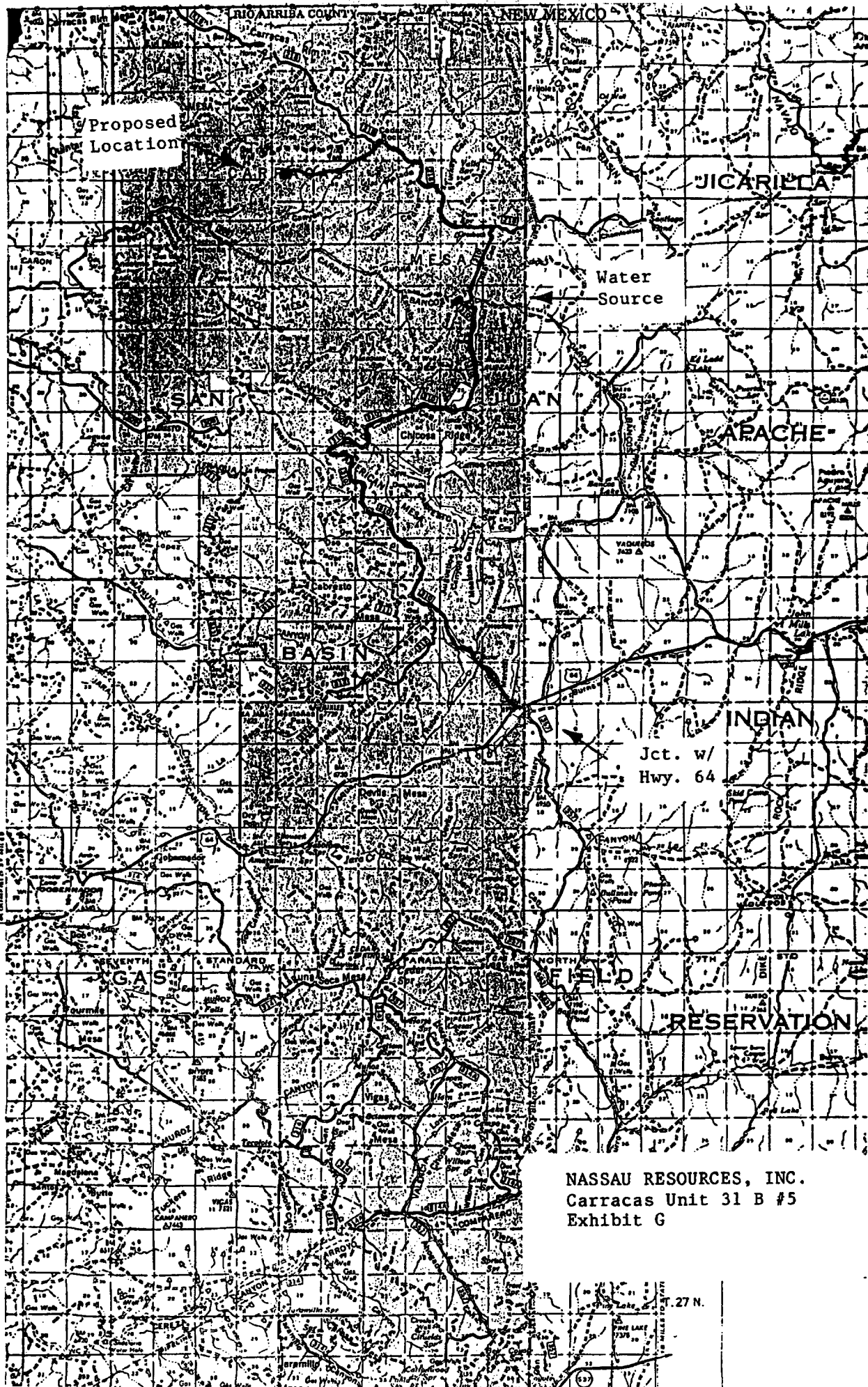
T. 31 N.

T. 30 N.

T. 29 N.

T. 28 N.

T. 27 N.



NASSAU RESOURCES, INC.  
Carracas Unit 31 B #5  
Exhibit G

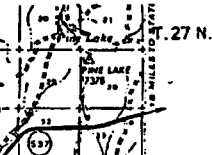




EXHIBIT "A"  
CASE NO. 9559  
ORDER NO. R-8844

<u>WELL NAME AND NUMBER</u>	<u>FOOTAGE</u>	<u>U-S-T-R</u>	<u>DEDICATED ACREAGE</u>
✓ Carracas Unit 17-B No. 15	650 FSL - 2070 FEL	O-17-32N-4W	E/2 (320 acres)
✓ Carracas Unit 19-B No. 4	1170 FNL - 830 FWL	D-19-32N-4W	Lots 1, 2, 3, 4 and the E/2 W/2 (300.52 acres)
✓ Carracas Unit 21-B No. 5	1655 FNL - 1185 FWL	E-21-32N-4W	N/2 (320 acres)
✓ Carracas Unit 25-B No. 15	640 FSL - 1500 FEL	O-25-32N-4W	E/2 (320 acres)
✓ Carracas Unit 26-B No. 16	790 FS & EL	P-26-32N-4W	E/2 (320 acres)
✓ Carracas Unit 27-B No. 5	1740 FNL - 1800 FWL	E-27-32N-4W	N/2 (320 acres)
✓ Carracas Unit 30-B No. 16	1100 FSL - 790 FEL	P-30-32N-4W	Lots 3 and 4, the E/2 SW/4, and the SE/4 (310.55 acres)
✓ Carracas Unit 31-B No. 5	1770 FNL - 830 FWL	E-31-32N-4W	Lots 1, 2, 3, 4 and the E/2 W/2 (300.96 acres)
✓ Carracas Unit 32-B No. 5	1630 FNL - 790 FWL	E-32-32N-4W	N/2 (320 acres)
✓ Carracas Unit 33-B No. 4	1160 FNL - 1060 FWL	D-33-32N-4W	W/2 (320 acres)
✓ Carracas Unit 33-B No. 16	790 FSL - 1950 FEL	P-33-32N-4W	E/2 (320 acres)
✓ Carracas Unit 35-B No. 9	1850 FSL - 790 FEL	I-35-32N-4W	E/2 (320 acres)
✓ Carracas Unit 36-B No. 15	1190 FSL - 1850 FEL	O-36-32N-4W	E/2 (320 acres)
✓ Carracas Unit 14-A No. 4	790 FN & WL	D-14-32N-5W	N/2 (320 acres)
✓ Carracas Unit 15-A No. 16	200 FSL - 500 FEL	P-15-32N-5W	S/2 (320 acres)
✓ Carracas Unit 21-A No. 15	790 FSL - 1850 FEL	O-21-32N-5W	E/2 (320 acres)
✓ Carracas Unit 22-A No. 16	790 FS & EL	P-22-32N-5W	E/2 (320 acres)
✓ Carracas Unit 25-A No. 16	640 FSL - 710 FEL	P-25-32N-5W	E/2 (320 acres)
✓ Carracas Unit 36-A No. 5	1450 FNL - 910 FWL	E-36-32N-5W	W/2 (320 acres)

RECEIVED

JAN 20 1989

OIL CON. DIV.  
(DIST. 3)

STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
DIVISION FOR THE PURPOSE OF  
CONSIDERING:

CASE NO. 9559  
ORDER NO. R-8844

APPLICATION OF NASSAU RESOURCES, INC.  
FOR NINETEEN UNORTHODOX COAL GAS  
WELL LOCATIONS, RIO ARRIBA COUNTY,  
NEW MEXICO

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on December 21, 1988, at Santa Fe, New Mexico, before Examiner Michael E. Stogner.

NOW, on this 17th day of January, 1989, the Division Director, having considered the testimony, the record and the recommendations of the Examiner, and being fully advised in the premises,

FINDS THAT:

(1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) At the time of the hearing this case was consolidated with Division Case No. 9560 for the purpose of testimony.

(3) The applicant, Nassau Resources, Inc., seeks approval of 19 unorthodox coal gas well locations, as described in Exhibit "A" attached hereto and made a part hereof, to test the Basin-Fruitland Coal (Gas) Pool, Rio Arriba County, New Mexico.

(4) On October 17, 1988, the Division entered Order R-8768 which adopted Special Rules for the Basin-Fruitland Coal (Gas) Pool including RULE 7 which provides in part that the first well drilled in a 320-acre unit shall be located in either the NE/4 or SW/4 of a governmental section and that it be located no closer than 790 feet to the outer boundary of the spacing unit.

(5) Prior to the adoption of the rules for this pool, the applicant in this case, Nassau Resources, Inc., formed the Carracas Canyon Unit in Rio Arriba County, New Mexico, 97.7 percent of which acreage is federal leases.

(6) The preliminary drilling by the applicant in the unit area has provided sufficient information to reasonably conclude that a substantial portion of the unit can be developed for Basin-Fruitland Coal (Gas) production.

(7) The Carracas Canyon Unit in Rio Arriba County, New Mexico, lies almost entirely within the Carson National Forest with all surface use including location of these wells subject to the jurisdiction of the United States Forest Service and to the Carson National Forest Land and Resource Management Plan.

(8) Included among the surface use restrictions for well locations, roads and pipelines to access these wells within the Carracas Canyon Unit were topographical restrictions concerning soil conservation, steepness of slope, limitation on grade for roads, forest preservation, wildlife habitat management and archeological/historical artifact preservation.

(9) The applicant with due diligence has attempted in each section of the unit to locate two wells at locations which would conform to standard well locations under the current RULE 7 of Order No. R-8768. Said U.S. Forest Service Management Plan in the Carson National Forest requires that future use of the Carracas Canyon area surfaces involves maximizing the use of existing roads and minimizing construction of new roads.

(10) For each spacing unit for the proposed nineteen unorthodox coal gas well locations, the applicant has been unable to locate and obtain U.S. Forest Service approval for a standard well location within that proposed spacing unit.

(11) The District Forest Ranger for the Jicarilla Ranger District, whose area encompasses the subject unit area, testified on behalf of the applicant at the hearing that each of the proposed nineteen unorthodox gas well locations has either been approved or is acceptable. His testimony also indicated that in some instances while a surface location may be possible at a standard well location, there is no acceptable location for the necessary roads and pipeline rights of way to access the well locations.

(12) While the proposed nineteen wells are off-pattern locations under the Special Rules for the Basin-Fruitland Coal (Gas) Pool, they will provide for an orderly development of the unit on 320-acre spacing patterns.

(13) No interest owner in the unit nor any interested party adjoining the unit appeared and objected to this application.

(14) The District Ranger also provided supporting testimony which indicates that approval of this application would enable the applicant and the United States Forest Service to implement an orderly plan for exploration and development which is consistent with oil and gas conservation and will not adversely impact environmental concerns.

Case No. 9559  
Order No. R-8844  
Page No. 3

(15) Approval of the subject application will afford the applicant the opportunity to produce its just and equitable share of the coal gas in the affected pool, will prevent the economic loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells and will otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED THAT:

(1) The application of Nassau Resources, Inc. for exceptions to RULE 7 of Division Order No. R-8768 allowing 19 unorthodox coal gas well locations, as shown on Exhibit "A" attached hereto and made a part hereof, within their Carracas Canyon Unit Area, Rio Arriba County, New Mexico, for the Basin-Fruitland Coal (Gas) Pool is hereby approved.

(2) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

*for* *Victor 2. Lyon*  
WILLIAM J. LEMAY  
Director

S E A L

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE  
(Other instructions on  
reverse side)

Exp. No. 100-11-1005  
LEASE NO. 100-11-1005  
NH 30015

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL ☐ GAS ☒ OTHER ☐  
2. NAME OF OPERATOR  
NASSAU RESOURCES, INC.  
3. ADDRESS OF OPERATOR  
P.O. Box 809, Farmington, N.M. 87499  
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
See also space 17 below.)  
At surface  
1770' FNL - 830' FWL

7. UNIT AGREEMENT NAME  
Carracas Unit  
8. FARM OR LEASE NAME  
Carracas Unit 31 B  
9. WELL NO.  
#5  
10. FIELD AND FOOT OR WELD NO.  
Basin Fruitland Coal  
11. SEC. T. R. M. OR B.L. AND  
SURVEY OR ACRES

14. PERMIT NO.  
15. ELEVATIONS (Show whether DF, RT, CR, etc.)  
6960' GL

Sec. 31, T. 33N, R. 4E, S. 10E  
12. COUNTY OR PARCEL 13. STATE  
Rio Arriba NM

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	PULL OR ALTER CASING
FRACURE TREAT	MULTIPLE COMPLETION
SHOOT OR ACIDIZE	ABANDON*
REPAIR WELL	CHANGE PLANS
(Other)	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	REPAIRING WELL
FRACURE TREATMENT	ALTERING CASING
SHOOTING OR ACIDIZING	ABANDONMENT*
(Other) Updated BOP sketch	X

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. 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 depths for all markers and zones pertinent to this work.)

Per Bureau of Land Management request, attached is an updated sketch.

RECEIVED  
MAY 24 1990  
OIL CON. DIV.  
DIST. 3

RECEIVED  
MAY 16 11:10:47  
FARMINGTON, N.M. 87401

18. I hereby certify that the foregoing is true and correct

SIGNED

Fran Perrin

TITLE Admin. Asst.

(This space for Federal or State where use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

NMOCD

\*See Instructions on Reverse Side

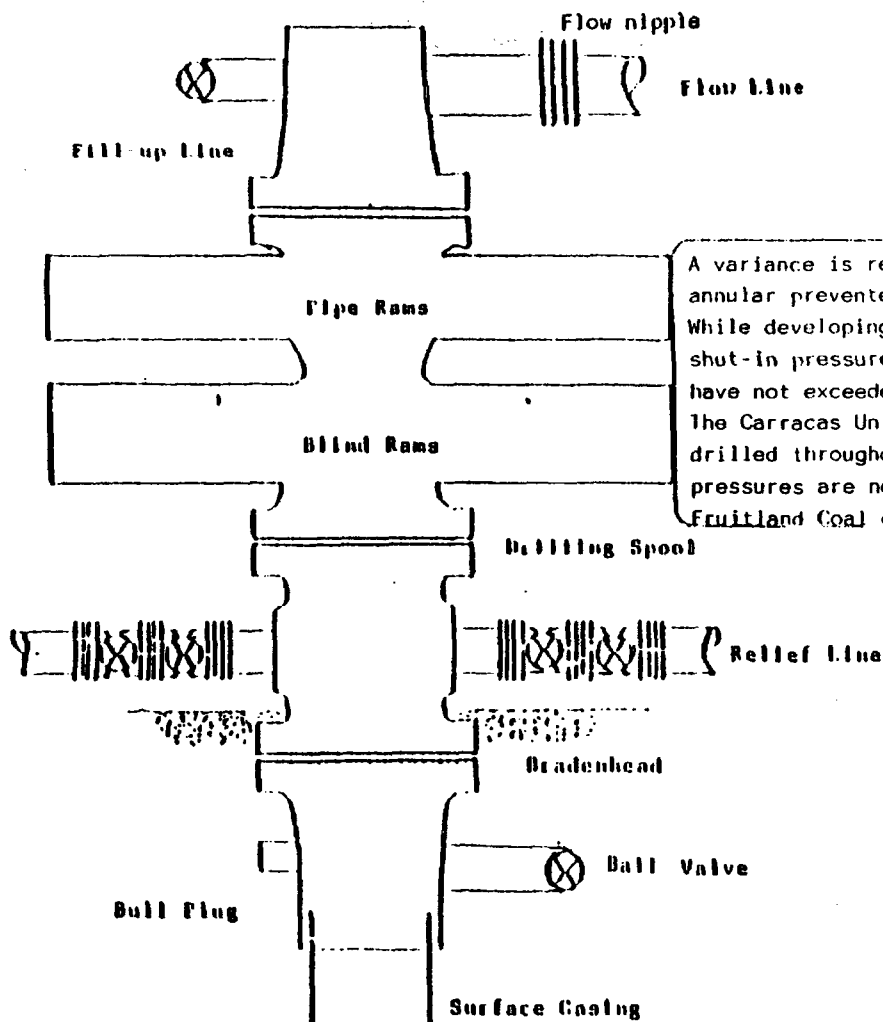
APPROVED

DATE 5/15/90

MAY 21 1990

Ken Townsend  
AREA MANAGER  
FARMINGTON RESOURCE AREA

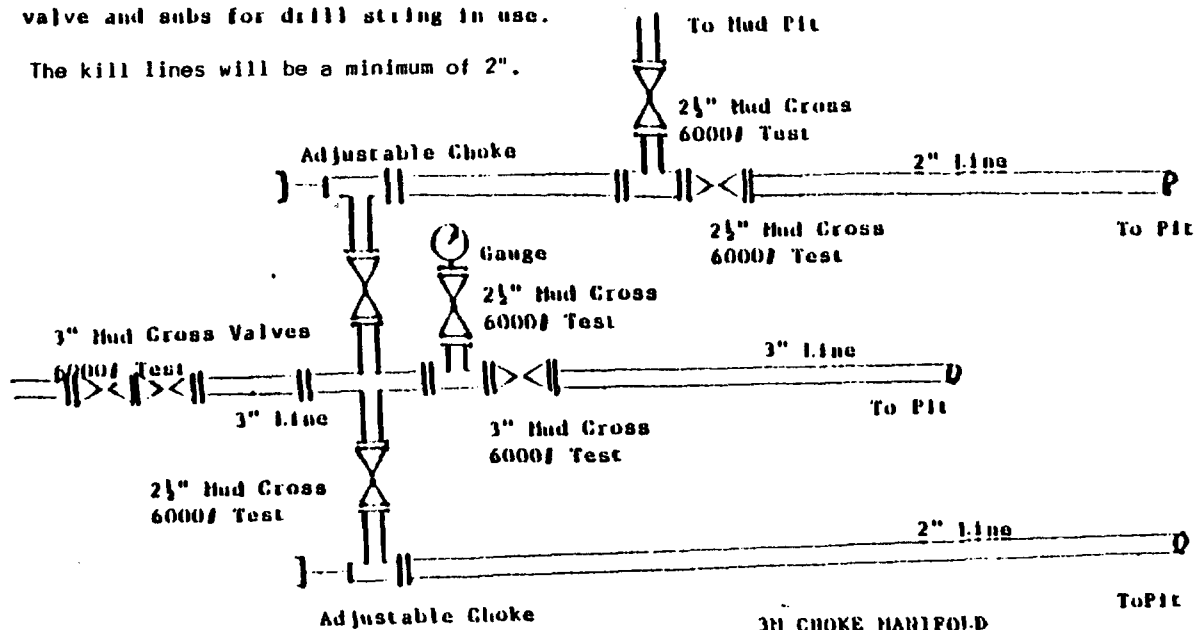
# BLOWOUT PREVENTER INSTALLATION



A variance is requested on the use of an annular preventer. While developing the Carracas unit, shut-in pressures after fracture treating have not exceeded 1500 psig. The Carracas Unit now has numerous wells drilled throughout the unit and higher pressures are not expected in drilling Fruitland Coal gas wells.

Series 900 Double gate BOP, rated at 3000 psi working pressure. When gas drilling operations begin, a Shaffer type 50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowline. Upper Kelly cock valve will be in place with handle on rig floor at all times along with Safety valve and subs for drill string in use.

The kill lines will be a minimum of 2".



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE  
(Other instructions on reverse side)

PROJECT NUMBER: 1001  
FARMINGTON AREA, N.M.  
CARRACAS UNIT, 31 B  
NN 30015

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL ☐ GAS ☐ OTHER ☒  
2. NAME OF OPERATOR  
NASSAU RESOURCES, INC.  
3. ADDRESS OF OPERATOR  
P.O. Box 809, Farmington, N.M. 87499  
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
See also space 17 below.)  
At surface  
1770' FNL - 830' FWL  
14. PERMIT NO.  
15. ELEVATIONS (Show whether DF, RT, OR, etc.)  
6960' GL

7. UNIT AGREEMENT NAME  
Carracas Unit  
8. FARM OR LEASE NAME  
Carracas Unit 31 B  
9. WELL NO.  
#5  
10. FIELD AND FOOT OR WILDCAT  
Basin Fruitland Coal  
11. SEC., T., R., M., OR B.L. AND  
SURVEY OR AREA  
Sec. 31, T. 22N, R. 4W, NMPH  
12. COUNTY OR PARTIAL 13. STATE  
Rio Arriba NM.

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT OFF	PULL OR ALTER CASING
FRACTURE TREAT	MULTIPLE COMPLETE
SHOOT OR ACIDIZE	ABANDON*
REPAIR WELL	CHANGE PLANT

(Other) Request extension of APD ☒

SUBSEQUENT REPORT OF:

WATER SHUT OFF	REPAIRING WELL
FRACTURE TREATMENT	ALTERING CASING
SHOOTING OR ACIDIZING	ABANDONMENT*
(Other)	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. 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 depths for all markers and zones pertinent to this work.)

Request extension of Application to Drill due to drilling schedule.

RECEIVED

MAY 24 1990

OIL CON. DIV.  
DIST. 3

THIS APPROVAL EXPIRES NOV 01 1990

18. I hereby certify that the foregoing is true and correct

SIGNED

Fran Perrin

TITLE Admin. Asst.

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

APPROVED

\*See Instructions on Reverse Side

APPROVED

DATE 4/24/90

MAY 27 1990

DATE

AREA MANAGER

FARMINGTON RESOURCE AREA



Jerome P. McHugh & Associates  
Operating Affiliate: **Nassau Resources, Inc.**  
P O Box 809, Farmington, NM 87499-0809  
(505) 326-7793 Fax (505) 327-0859

September 10, 1990

New Mexico Oil Conservation Division  
1000 Rio Brazos Rd.  
Aztec, NM 87410

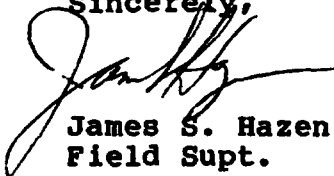
RE: **NASSAU RESOURCES, INC.**  
Carracas Unit 31 B #5  
Unit E, Sec. 31, ~~XXXXXX~~; NMPM  
Rio Arriba County, NM

Gentlemen:

I hereby certify that deviation surveys were run on the captioned well as shown listed below.

1	at	307'	1/2	at	1806'
3/4	at	536'	1/4	at	2025'
1	at	931'	1/2	at	2532'
1/2	at	1337'	3/4	at	3028'
			1	at	3528'

Sincerely,

  
James S. Hazen  
Field Supt.

cm

State of New Mexico     )  
                                      )     ss  
County of San Juan     )

Subscribed and sworn to before me this 10th day of Sept., 1990.



OFFICIAL SEAL  
FRANCES PERRIN  
NOTARY PUBLIC - NEW MEXICO  
Notary Bond Filed with Secretary of State  
My Commission Expires 5-15-93

  
Notary Public

**RECEIVED**  
SEP 13 1990  
OIL CON. DIV.)  
DIST. 8



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE  
(Other instructions on re-  
verse side)

Budget Bureau No. 1004-0145  
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

NM 30015

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals.)

OIL WELL ☐ GAS WELL ☒ OTHER ☐

2. NAME OF OPERATOR

NASSAU RESOURCES, INC.

3. ADDRESS OF OPERATOR

P.O. Box 809, Farmington, N.M. 87499

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

1770' FNL - 830' FWL

14. PERMIT NO.

15. ELEVATIONS (Show whether SP, RT, CR, etc.)

6960' GL

Sec. 31, T32N, RAW, NMPM  
12. COUNTY OR PARISH 13. STATE

Rio Arriba NM

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other) ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON\* ☐

CHANGE PLANE ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other) TD, 5-1/2" CSG, cement ☒

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT\* ☐

(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. 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 depths for all markers and zones pertinent to this work.)\*

Reached TD of 3975' on 9/4/90.

Ran 98 jts. of 5-1/2", 17#, K-55 LT&C casing.

Set at 3,974' KB.

Cemented as follows:

10 bbls. mud flush

429 sk of 65/35 poz w/ 12% gel and 1/4#/sk flocele. (1124 cu.ft.)

100 sk of 50/50 poz w/ 2% gel, 6-1/4#/sk gilsonite and 1/4#/sk flocele  
(139 cu.ft.)

Total of 1263 cu.ft.

Full returns throughout job.

Circulated 3 bbls. of cement to surface.

Plug down at 4:00 pm on 9/6/90.

Centralizers on jts. #1, #3, #5, #7, #9, #11, #13, & #15.

One turbolizer in Ojo Alamo.

Maximum rate 6 bpm. Maximum pressure 1000 psi.

Bumped plug with 1500 psi.

Set slips and released rig at 6:00 pm on 9/6/90.

RECEIVED  
OCT 1 1990

OIL CON. DIV.

DIST. 3

18. I hereby certify that the foregoing is true and correct

SIGNED

James S. Hazen

TITLE Field Supt.

DATE 9/10/90

(This space for Federal or State office use)

ACCEPTED FOR RECORD

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

SEP 25 1990

FARMINGTON RESOURCE AREA

BY

\*See Instructions on Reverse Side

CM

### SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>	7. UNIT AGREEMENT NAME Carracas Unit
2. NAME OF OPERATOR NASSAU RESOURCES, INC.	8. FARM OR LEASE NAME Carracas Unit 31 B
3. ADDRESS OF OPERATOR P.O. Box 809, Farmington, N.M. 87499	9. WELL NO. #5
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1770' FNL - 830' FWL	10. FIELD AND POOL, OR WILDCAT Basin Fruitland Coal
14. PERMIT NO.	11. SEC., T., R., M., OR BLK. AND SURVEY OR ABMA Sec. 31, T32N, R4W, NMPM
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6960' GL	12. COUNTY OR PARISH Rio Arriba
	13. STATE NM

#### Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

##### NOTICE OF INTENTION TO:

TEST WATER SHUT OFF	PULL OR ALTER CASING
FRACTURE TREAT	MULTIPLE COMPLETION
SHOOT OR ACIDIZE	ABANDON*
REPAIR WELL	CHANGE PLANT
(Other)	

##### SUBSEQUENT REPORT OF:

WATER SHUT OFF	REPAIRING WELL
FRACTURE TREATMENT	ALTERING CASING
SHOOTING OR ACIDIZING	ABANDONMENT*
(Other) Spud, 9-5/8" csg., cement test	XX

(NOTE: Report results of multiple completion on Well Completion or Reconpletion Report and Log form.)

17. 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 depths for all markers and zones pertinent to this work.)\*

Spudded at 10:45 pm on 8/31/90 with Four Corners Rig #9.  
Ran 7 jts. of 9-5/8", 36# casing.  
Set at 309' KB.  
Cemented as follows:  
192 sk of Class "B" with 2% CaCl (224.64 cu.ft.)  
Circulated 2-1/2 bbls. of cement to surface.  
Maximum pressure 600 psi.  
Maximum rate 4 bpm.  
Plug down at 7:45 am on 9/1/90. Waited on cement for 11-3/4 hours.  
Pressure tested to 600 psi for 30 minutes. Held okay.

RECEIVED

SEP 24 1990

OIL CON. DIV.

DIST. 3

18. I hereby certify that the foregoing is true and correct

SIGNED

*Fran Perrin*  
FRAN PERRIN

TITLE Admin. Asst.

ACCEPTED FOR RECORD

DATE 9/5/90

(This space for Federal or State office use)

SEP 19 1990

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

FARMINGTON RESOURCE AREA

BY

\*See Instructions on Reverse Side

(November 1984)  
(Form 9-131)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN ORIGINAL FILE  
(Other parties must submit  
copy only)

UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
FARMINGTON RESOURCE AREA

NH 30015

6 INDIAN, ALLOTTEE OR TRIBE

SUNDRY NOTICES AND REPORTS ON WELLS

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

1 OIL WELL ☐ GAS WELL ☒ OTHER ☐

2 NAME OF OPERATOR

3 ADDRESS OF OPERATOR  
NASSAU RESOURCES, INC.

4 LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
See also space 17 below)  
At surface

1770' ENL - 830' FWL

14 PERMIT NO.

15 ELEVATIONS (Show whether DT, RT, GK, etc.)

6960' GL

7 UNIT AGREEMENT NAME

8 CARRACAS UNIT  
FARM OR LEASE NAME

9 CARRACAS UNIT 31 B  
WELL NO.

10 FIELD AND POOL OR WILDCAT  
#5

11 BASIN FRUITLAND COAL  
SEC. T. R. M. OR B.L. AND  
SURVEY OR AREA

12 Sec. 31, T32N, R4W, NHPH  
COUNTY OR PARISH 13 STATE

Rio Arriba NH

16 Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT OFF	PILE OR ALTER CASING
FRACURE TREAT	MULTIPLE COMPLETION
SHOOT OR ACIDIZE	ABANDON*
REPAIR WELL	CHANGE PLANS
(Other)	Request extension of APD <input checked="" type="checkbox"/>

SUBSEQUENT REPORT OF:

WATER SHUT OFF	REPAIRING WELL
FRACURE TREATMENT	ALTERING CASING
SHOOTING OR ACIDIZING	ABANDONMENT*
(Other)	

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17 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 depths for all markers and zones pertinent to this work.)

Request extension of Application to Drill due to drilling schedule.

RECEIVED  
MAY 24 1990

OIL CON. DIV.  
DIST. 2

THIS APPROVAL EXPIRES NOV 01 1990

18. I hereby certify that the foregoing is true and correct

SIGNED

Fran Perrin

TITLE

Admin. Asst.

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

APPROVED

\*See Instructions on Reverse Side

APPROVED

DATE 4/24/90

MAY 27 1990

DATE

AREA MANAGER  
FARMINGTON RESOURCE AREA

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE  
(Other instructions on  
reverse side)

Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL

NH 30015

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Carracas Unit

8. FARM OR LEASE NAME

Carracas Unit 31 B

9. WELL NO.

#5

10. FIELD AND POOL OR WILDCAT

Basin Fruitland Coal

11. SEC., T., R., M., OR BLE. AND  
SURVEY OR AREA

Sec. 31, T32N, R4W, NMPM

12. COUNTY OR PARISH 13. STATE

Rio Arriba

NM

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT--" for such proposals.)

1

OIL ☐ GAS ☐ OTHER ☒

2. NAME OF OPERATOR

NASSAU RESOURCES, INC.

3. ADDRESS OF OPERATOR

P.O. Box 809, Farmington, N.M. 87499

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
See also space 17 below.)

At surface

1770' FNL - 830' FWL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, OR, etc.)

6960' GL

16

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETION

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANE

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Well status

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. 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 depths for all markers and zones perti-  
nent to this work.)\*

Well was turned back on 8/30/93 after being shut in for more  
than 90 days.

RECEIVED

SEP - 3 1993

OIL CON. DIV.  
DIST. 3

070 FARMINGTON, NM

53 AUG 31 AM 11:45

RECEIVED  
BLM

18. I hereby certify that the foregoing is true and correct

SIGNED

Fran Perrin

TITLE Regulatory Liaison

DATE 8/30/93

(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED FOR RECORD

SEP 01 1993

FARMINGTON DISTRICT OFFICE

\*See Instructions on Reverse Side

(November 1983)  
(Formerly 9-331)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE  
(Other Instructions on  
reverse side)

Expires August 31, 1985  
5. LEASE DESIGNATION AND SERIAL  
NM 30015  
6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>	7. UNIT AGREEMENT NAME Carracas Unit
2. NAME OF OPERATOR NASSAU RESOURCES, INC.	8. FARM OR LEASE NAME Carracas Unit 31 B.
3. ADDRESS OF OPERATOR P.O. Box 809, Farmington, N.M. 87499	9. WELL NO. #5
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1770' FNL - 830' FWL	10. FIELD AND POOL OR WILDCAT Basin Fruitland Coal
14. PERMIT NO. API# 30-039-24417	11. SEC., T., S., W., OR BLE. AND SURVEY OR AREA Sec. 31, T32N, RAW, NMPM
15. ELEVATIONS (Show whether DP, RT, OR, etc.) 6960' GL	12. COUNTY OR PARISH Rio Arriba
	13. STATE NM

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANE <input type="checkbox"/>	(Other) Well was turned back on <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. 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 depths for all markers and zones pertinent to this work.)

Well was turned back on 11/1/94 after being shut-in for more than 90 days.

RECEIVED  
NOV 10 1994  
OIL CON. DIV.  
DIST. 3

NOV 10 1994  
OIL CON. DIV.  
DIST. 3

18. I hereby certify that the foregoing is true and correct

SIGNED Fran Perrin

TITLE Regulatory Liaison

DATE 11/2/94

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

ACCEPTED FOR RECORD

NOV 04 1994

\*See Instructions on Reverse Side

FARMINGTON DISTRICT OFFICE

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE\*

(See other instructions on reverse side)  
RECEIVED  
BLM  
APR 23 AM 10:16  
G19 FARMINGTON

Form approved.  
Budget Bureau No. 1004-0137  
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

1. TYPE OF WELL: OIL ☐ GAS ☒ DRY ☐ Other \_\_\_\_\_

2. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PIPE BACK ☐ DIFF. REPAIR ☐ Other \_\_\_\_\_

3. NAME OF OPERATOR

NASSAU RESOURCES, INC.

4. ADDRESS OF OPERATOR

P O BOX 809, Farmington, N.M. 87499

5. LOCATION OF WELL (Report location clearly and in accordance with State requirements)\*

At surface 1770' FNL - 830' FWL

At top prod. interval reported below

At total depth

14. XREF NO. API # DATE ISSUED  
30-039-24417 5-1-89

OIL CON. DIV.  
DIST. 3

6. LEASE DESIGNATION AND SERIAL NO.

NM 30015

7. IF INDIAN, ALLOTTEE OR TRIBE NAME

8. TIME AGREEMENT NAME

Carracas Unit

9. PACE OR LEASE NAME

Carracas Unit 31 B

10. WELL NO.

#5

11. FIELD AND POOL, OR WILDCAT

Basin Fruitland Coal

12. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 31, T32N, R4W, NMPM

13. COUNTY OR PARISH

Rio Arriba

14. STATE

NM

15. DATE SPUDDED 8-31-90 16. DATE T.D. REACHED 9-4-90 17. DATE COMPL. (Ready to prod.) 4-12-91 18. ELEVATIONS (OF, HKB, RT, GR, ETC.)\* 6960' GL 19. SLEV. CASINGHEAD 6960' GL

20. TOTAL DEPTH, MD & TVD 3975' KB 21. PLUG BACK T.D., MD & TVD 3889' 22. IF MULTIPLE COMPL., HOW MANY\* na 23. INTERVALS DRILLED BY TD 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* 3686' - 3746' 25. WAS DIRECTIONAL SURVEY MADE NO

26. TYPE ELECTRIC AND OTHER LOGS RUN Gamma Ray Neutron Correlation Log, Coal Log Formation Denisty/Neutron/GR, Microlog/GR, Dual Induction/SFL/GR 27. WAS WELL CORED NO

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	36#	309' KB	12-1/4"	225 cu.ft. circ. to surf.	---
5-1/2"	17#	3974' KB	8-3/4"	1263 cu.ft. circ. to surf.	---
				See reverse.	

LINER RECORD					TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
NA					2-7/8"	3746' KB	---

31. PREPARATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
3686-3706'		DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3742-3746'		3686-3746' KB	500 gal. 15% HCL acid
			21,600# of 40/70 sand
			214,400# of 20/40 sand
			1840 bbls. 35# YF-x-link fluid
4 spf	0.50" diam. holes		
96 perfs.			

33. PRODUCTION							
DATE FIRST PRODUCTION				PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)			
10-8-90*				Pumping			
DATE OF TEST		HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BSL.	GAS—MCF.	WATER—BSL.
4-13-91		24	---	---	---	35	191
FLOW, TUBING PRESS.		CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BSL.	GAS—MCF.	WATER—BSL.	OIL GRAVITY-API (CORR.)
184		610	---	---	35	191	---

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)  
Vented during test; to be sold

35. LIST OF ATTACHMENTS

\*1st hydrocarbons to wellbore during completion operation

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Fran Perrin TITLE Admin. Asst. DATE 4/18/91

\*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, flowing and shut-in pressures, and recoveries):

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
			<p><u>Item #28</u></p> <p>Cemented 9-5/8" csg. w/ 192 sk of Class "B" w/ 2% CaCl (225 cu.ft.)</p> <p>Cemented 5-1/2" csg. w 10 bbls. mud flush 429 sk of 65/35 poz w/ 12% gel and 1/4#/sk flocele (1124 cu.ft.)</p> <p>100 sk of 50/50 poz w/ 2% gel, 6-1/4#/sk gilsonite and 1/4#/sk flocele (139 cu.ft.)</p> <p>Total of 1263 cu.ft.</p>	<p>Ojo Alamo</p> <p>Kirtland</p> <p>Fruitland</p> <p>Fruitland Coal</p>	<p>3115'</p> <p>3205'</p> <p>3534'</p> <p>3687'</p>	

Submit 5 Copies  
Appropriate District Office  
DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

Energy, Minerals and Natural Resources Department

Form C-104  
Revised 1-1-89  
See Instructions  
at Bottom of Page

# OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

## REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Operator <b>NASSAU RESOURCES, INC.</b>		Well APN No. <b>30-039-24417</b>
Address <b>P O BOX 809, Farmington, N.M. 87499</b>		
Reason(s) for Filing (Check proper box) <input type="checkbox"/> Other (Please explain)		
New Well <input type="checkbox"/>	Change in Transporter of:	
Recompletion <input type="checkbox"/>	Oil <input type="checkbox"/>	Dry Gas <input type="checkbox"/>
Change in Operator <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/>	Condensate <input type="checkbox"/>

If change of operator give name  
and address of previous operator

## II. DESCRIPTION OF WELL AND LEASE

Lease Name <b>Carracas Unit 31 B</b>	Well No. <b>5</b>	Pool Name, including Formation <b>Basin Fruitland Coal</b>	Kind of Lease State, Federal or F&W <input checked="" type="checkbox"/>	Lease No. <b>NM 30015</b>
Location Unit Letter <b>E</b> : <b>1770</b> Feet From The <b>North</b> Line and <b>830</b> Feet From The <b>West</b> Line Section <b>31</b> Township <b>32N</b> Range <b>4W</b> , <b>NMPM</b> Rio Arriba County				

## III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
<b>NASSAU RESOURCES, INC.</b>	<b>P O Box 809, Farmington, N.H. 87499</b>
If well produces oil or liquids, give location of tanks.	Is gas actually connected? When?
Unit Sec. Twp. Rge. <b>36 32N 5W</b>	<b>Yes 12/5/90</b>

If this production is commingled with that from any other lease or pool, give commingling order number:

## IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well <input type="checkbox"/>	Gas Well <input checked="" type="checkbox"/>	New Well <input checked="" type="checkbox"/>	Workover <input type="checkbox"/>	Deepen <input type="checkbox"/>	Plug Back <input type="checkbox"/>	Same Res'v <input type="checkbox"/>	DIT Res'v <input type="checkbox"/>
Date Spudded <b>8-31-90</b>	Date Compl. Ready to Prod. <b>4-12-91</b>		Total Depth <b>3975' KB</b>		P.B.T.D. <b>3889' KB</b>			
Elevations (DF, RKB, RT, GR, etc.) <b>6960' GL</b>	Name of Producing Formation <b>Fruitland Coal</b>		Top Oil/Gas Pay <b>3686' KB</b>		Tubing Depth <b>3746' KB</b>			
Perforations <b>3686' - 3746' KB</b>			Depth Casing Shoe <b>397A' KB</b>					
<b>TUBING, CASING AND CEMENTING RECORD</b>								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			
<b>12-1/4"</b>	<b>9-5/8"</b>		<b>309' KB</b>		<b>225 cu.ft., circ. to surf</b>			
<b>8-3/4"</b>	<b>5-1/2"</b>		<b>3974' KB</b>		<b>1263 cu.ft., circ. to surf.</b>			
	<b>2-7/8"</b>		<b>3746' KB</b>					

## V. TEST DATA AND REQUEST FOR ALLOWABLE

OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)

Date First New Oil Run To Tank	Date of Test	Producing Method (Flow, pump, gas lift, etc.)
Length of Test	Tubing Pressure	Casing Pressure
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.
		<b>APR 22 1991</b>

## GAS WELL

Actual Prod. Test - MCF/D <b>35</b>	Length of Test <b>24 hours</b>	Bbls. Condensate/MMCF <b>DIST. 3</b>	Gravity of Condensate
Testing Method (pilot, back pr.) <b>Pumping</b>	Tubing Pressure (Shut-in) <b>0</b>	Casing Pressure (Shut-in) <b>0</b>	Choke Size

## VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature *Fran Perrin*  
Printed Name **Fran Perrin** Admin. Asst.  
Title  
Date **4-18-91** Telephone No. **505 326-7793**

## OIL CON. DIV.

Date Approved **MAY 31 1991**

By *[Signature]*  
Title **SUPERVISOR DISTRICT #3**

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.



District I (505) 393-6161  
P.O. Box 1980  
Hobbs, NM 88241-1980  
District II - (505) 748-1283  
811 S. First  
Artesia, NM 88210  
District III - (505) 334-6178  
1000 Rio Brazos Road  
Aztec, NM 87410  
District IV

New Mexico  
Energy Minerals and Natural Resources Department  
Oil Conservation Division  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

Form C-140  
Originated 11/1/95

Submit Original  
Plus 2 Copies  
to appropriate  
District Office

APPLICATION FOR  
QUALIFICATION OF WELL WORKOVER PROJECT  
AND CERTIFICATION OF APPROVAL

THREE COPIES OF THIS APPLICATION AND ALL ATTACHMENTS MUST BE FILED WITH THE APPROPRIATE DISTRICT OFFICE OF THE OIL CONSERVATION DIVISION.

I. Operator: Nassau Resources, Inc. OGRID #: 015515

Address: 650 S. Cherry St., Ste 1225, Denver, CO 80222

Contact Party: Gary J. Johnson Phone: 303-321-2111

II. Name of Well: Carracas Canyon Unit 31B #5 API #: 30-039-24417  
Location of Well: Unit Letter E 1770 Feet from the North line and 830 feet from the West line,  
Section 31, Township 32N, Range 04W, NMPM, Ro Arriba County

III. Date Workover Procedures Commenced: 09/04/1996  
Date Workover Procedures were Completed: 09/16/1996

IV. Attach a description of the Workover Procedures undertaken to increase the production from the Well.

V. Attach an estimate of the production rate of the Well (a production decline curve or other acceptable method, and table showing monthly oil and/or gas Project Production) based on at least twelve (12) months of established production which shows the future rate of production based on well performance prior to performing Workover.

VI. Pool(s) on which Production Projection is based: Basin Fruitland Coal

VII. AFFIDAVIT:

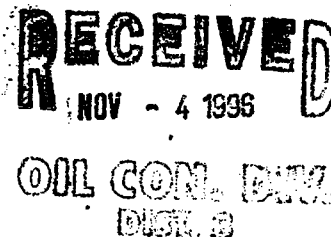
State of Colorado )  
 ) ss.  
County of Denver )

Gary J. Johnson, being first duly sworn, upon oath states:

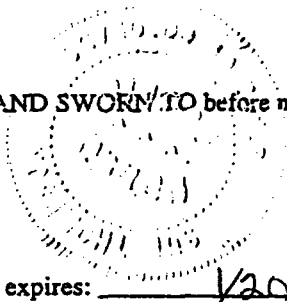
1. I am the Operator or authorized representative of the Operator of the above referenced Well.
2. I have made, or caused to be made, a diligent search of the production records which are reasonably available and contain information relevant to the production history of this Well.
3. To the best of my knowledge, the data used to prepare the Production Projection for this Well is complete and accurate and this projection was prepared using sound petroleum engineering principles.

Gary J. Johnson  
(Name)

Engineering Manager  
(Title)



SUBSCRIBED AND SWORN TO before me this 11 day of 1, 1996



Notary Public

My Commission expires: 1/20/99

FOR OIL CONSERVATION DIVISION USE ONLY:

VIII. CERTIFICATION OF APPROVAL:

This Application for Qualification of Well Workover Project is hereby approved and the above referenced Well is designated as a Well Workover Project pursuant to the "Natural Gas and Crude Oil Production Incentive Act" (Laws 1995, Chapter 15, Sections 1 through 8). The Oil Conservation Division hereby verifies the Production Projection for the Well Workover Project attached to this application. By copy of this Application and Certification of Approval, the Division notifies the Secretary of the Taxation and Revenue Department of this Approval and certifies that this Well Workover Project has been completed as of 9/16, 1996.

District Supervisor, District 3  
Oil Conservation Division

Date: 11/7/96

IX. DATE OF NOTIFICATION TO THE SECRETARY OF THE TAXATION AND REVENUE DEPARTMENT.

DATE: \_\_\_\_\_

Carracas Canyon Unit  
Well No. 31B-5  
E-31-T32N-R04W  
Rio Arriba County, NM

Attachment 2

Description of workover procedures undertaken to increase production from the well.

09-04-96 Moved in and rigged up workover rig. Blew well down.

09-05-96 Finished blowing well down. Installed BOP. TOH & tally pipe (3745' KB with SN at 3714'). SI overnight.

09-06-96 Tested lines. OK. Broke down formation as follows:  
Pumped 25 bbls. water followed by 1000 gal 7-1/2 %  
HCl acid. Pumped acid away with 26 bbl water.  
Formation broke down at 2600 psi. ISIP 2200 psi.  
TOH with tubing. Rigged up BJ Services & fraced with  
slick water & 12/20 sand as follows:

Fluid vol bbls	Pressure	Sand	at BPM
1429	3700	Pad	55
390	3800	1/2#/gal	55
572	4000	1#/gal	54
221	4000	1-1/2#	51
364	4300	2#	51
15	4800	Flush	40

Well screened off 15 bbls into flush.  
Avg treating pressure 4000 psi. ISIP 3800 psi  
5 min SIP 2800 psi 10 min SIP 2600 psi  
15 min SIP 2300 psi. SI overnight.

09-10-96 Bled off pressure (1400 psi). TIH with tubing.  
Hit sand at 1200'. Circulated sand from hole 7 jts.

09-11-96 Circulated 78 stands (1116'), cleaning hole to 2564'  
SI overnight.

09-12-96 Circulated well clean to 3750'. Set 119 joints of 2-7/8"  
tubing at 3686' with SN at 3654' & notched collar at  
3686'. Replaced bad joint of tubing 3 jts above SN.  
Rigged up to swab.

Carracas Canyon Unit  
Well No. 31B-5  
E-31-T32N-R04W  
Rio Arriba County, NM

Attachment 2  
Description of workover procedures undertaken to increase  
production from the well.

Page 2

09-13-96 Swabbed 8:30 AM to 2:00 PM. No pressure, 230 bbl  
recovered. 2:30 PM 25 psi; 3:30 PM 100psi;  
5:00 PM 320 psi. Shut-in overnight.

09-14-96 Swabbed 8:00 AM to 1:00 PM. Recovered 150 bbls.  
8:00 AM 460 psi; 9:00 AM 520 psi; 11:00 AM 530 psi  
1:00 PM 576 psi. Shut-in overnight.

09-16-96 Rigged down Workover Unit. Pressure on casing 800 psi.  
Rebuilt wellhead. Equalized tubing and casing pressure.

Page No.: 1

Print Time: Thu Oct 31 16:15:04 1996

Property ID: 58

Property Name: CARRACAS UNIT 31B | 5 FT | NASSAU RESOURCES INC

Table Name: C:\ARIES\CARRACAS\PRODUCT.DBF

--DATE--	----OIL----	----GAS----	---WATER---	-----GOR-----	-----YIELD----	---WTRCUT---
	Bbl	Mcf	Bbl	Scf/Bbl		
06/30/91	0	6274	2243	0.000	0.000	100.000
07/31/91	0	2487	1724	0.000	0.000	100.000
08/31/91	0	2192	0	0.000	0.000	0.000
09/30/91	0	1626	0	0.000	0.000	0.000
10/31/91	0	1227	0	0.000	0.000	0.000
11/30/91	0	961	0	0.000	0.000	0.000
12/31/91	0	682	0	0.000	0.000	0.000
01/31/92	0	665	2	0.000	0.000	100.000
02/29/92	0	2	0	0.000	0.000	0.000
10/31/92	0	434	1150	0.000	0.000	100.000
11/30/92	0	817	1162	0.000	0.000	100.000
12/31/92	0	640	451	0.000	0.000	100.000
01/31/93	0	377	64	0.000	0.000	100.000
08/31/93	0	88	0	0.000	0.000	0.000
09/30/93	0	1904	111	0.000	0.000	100.000
10/31/93	0	1355	109	0.000	0.000	100.000
11/30/93	0	780	81	0.000	0.000	100.000
12/31/93	0	776	203	0.000	0.000	100.000
01/31/94	0	281	85	0.000	0.000	100.000
11/30/94	0	1233	123	0.000	0.000	100.000
12/31/94	0	898	104	0.000	0.000	100.000
01/31/95	0	1395	111	0.000	0.000	100.000
02/28/95	0	473	131	0.000	0.000	100.000
03/31/95	0	976	71	0.000	0.000	100.000
04/30/95	0	1803	150	0.000	0.000	100.000
05/31/95	0	1607	198	0.000	0.000	100.000
06/30/95	0	973	222	0.000	0.000	100.000
07/31/95	0	1633	228	0.000	0.000	100.000
08/31/95	0	217	976	0.000	0.000	100.000
09/30/95	0	928	226	0.000	0.000	100.000
10/31/95	0	1044	229	0.000	0.000	100.000
11/30/95	0	865	237	0.000	0.000	100.000
12/31/95	0	874	228	0.000	0.000	100.000
01/31/96	0	1339	254	0.000	0.000	100.000
02/29/96	0	1070	301	0.000	0.000	100.000
03/31/96	0	1241	301	0.000	0.000	100.000
04/30/96	0	1161	273	0.000	0.000	100.000
05/31/96	0	2007	379	0.000	0.000	100.000
06/30/96	0	1142	351	0.000	0.000	100.000
07/31/96	0	1004	363	0.000	0.000	100.000
08/31/96	0	1341	432	0.000	0.000	100.000
09/30/96	0	232	31	0.000	0.000	100.000



Form C-140	Application for Qualification of Well Workover Project						
	and Certification of Approval						
Attachment 1	Tabulation of Estimated Well Production						
Nassau Resources, Inc.							
OGRID # 015515							
C-140 Application							
Carracas Unit 31B-5							
API # 30-039-24417 E-31-32N-04W	Rio Arriba County, NM						
	Projected		Projected		Projected		Projected
DATE	Production	DATE	Production	DATE	Production	DATE	Production
	MCFM		MCFM		MCFM		MCFM
10-96	1110						
11-96	1068						
12-96	1098						
01-97	1095	01-00	901	01-03	746	01-06	616
02-97	984	02-00	839	02-03	670	02-06	553
03-97	1084	03-00	892	03-03	738	03-06	610
04-97	1043	04-00	859	04-03	711	04-06	587
05-97	1072	05-00	882	05-03	731	05-06	603
06-97	1032	06-00	849	06-03	703	06-06	580
07-97	1061	07-00	873	07-03	723	07-06	597
08-97	1055	08-00	868	08-03	719	08-06	593
09-97	1016	09-00	836	09-03	692	09-06	571
10-97	1044	10-00	859	10-03	711	10-06	587
11-97	1005	11-00	827	11-03	685	11-06	565
12-97	1033	12-00	850	12-03	704	12-06	581
01-98	1027	01-01	848	01-04	698	01-07	578
02-98	923	02-01	762	02-04	650	02-07	519
03-98	1017	03-01	839	03-04	691	03-07	572
04-98	978	04-01	808	04-04	665	04-07	550
05-98	1006	05-01	830	05-04	683	05-07	566
06-98	968	06-01	799	06-04	658	06-07	545
07-98	995	07-01	821	07-04	676	07-07	560
08-98	990	08-01	817	08-04	672	08-07	557
09-98	953	09-01	786	09-04	647	09-07	536
10-98	979	10-01	808	10-04	665	10-07	551
11-98	942	11-01	778	11-04	640	11-07	530
12-98	969	12-01	800	12-04	658	12-07	545
01-99	963	01-02	795	01-05	657	01-08	540
02-99	866	02-02	715	02-05	590	02-08	503
03-99	954	03-02	787	03-05	650	03-08	535
04-99	918	04-02	758	04-05	625	04-08	515
05-99	943	05-02	779	05-05	643	05-08	529
06-99	908	06-02	750	06-05	619	06-08	509
07-99	933	07-02	771	07-05	636	07-08	524
08-99	928	08-02	766	08-05	633	08-08	521
09-99	894	09-02	738	09-05	609	09-08	501
10-99	918	10-02	758	10-05	626	10-08	515
11-99	884	11-02	730	11-05	602	11-08	496
12-99	909	12-02	750	12-05	619	12-08	510

Form C-140	Application for Qualification of Well Workover Project						
	and Certification of Approval						
Attachment 1	Tabulation of Estimated Well Production						
Nassau Resources, Inc.							
OGRID # 015515							
C-140 Application							
Carracas Unit 31B-5							
API # 30-039-24417 E-31-32N-04W	Rio Arriba County, NM						
	Projected		Projected		Projected		Projected
DATE	Production	DATE	Production	DATE	Production	DATE	Production
	MCFM		MCFM		MCFM		MCFM
01-09	508	01-12	419	01-15	346	01-18	
02-09	457	02-12	389	02-15	311	02-18	
03-09	503	03-12	414	03-15	343	03-18	
04-09	484	04-12	399	04-15	330	04-18	
05-09	498	05-12	410	05-15	339	05-18	
06-09	479	06-12	394	06-15	327	06-18	
07-09	493	07-12	405	07-15	336	07-18	
08-09	490	08-12	403	08-15	334	08-18	
09-09	472	09-12	388	09-15	321	09-18	
10-09	485	10-12	399	10-15	330	10-18	
11-09	467	11-12	384	11-15	318	11-18	
12-09	479	12-12	395	12-15	327	12-18	
01-10	477	01-13	394	01-16	324	01-19	
02-10	429	02-13	354	02-16	302	02-19	
03-10	472	03-13	390	03-16	321	03-19	
04-10	454	04-13	375	04-16	309	04-19	
05-10	467	05-13	385	05-16	317	05-19	
06-10	450	06-13	371	06-16	305	06-19	
07-10	462	07-13	381	07-16	314	07-19	
08-10	460	08-13	379	08-16	312	08-19	
09-10	442	09-13	365	09-16	301	09-19	
10-10	455	10-13	375	10-16	309	10-19	
11-10	438	11-13	361	11-16	297	11-19	
12-10	450	12-13	371	12-16	306	12-19	
01-11	447	01-14	369	01-17		01-20	
02-11	402	02-14	332	02-17		02-20	
03-11	443	03-14	365	03-17		03-20	
04-11	426	04-14	352	04-17		04-20	
05-11	438	05-14	362	05-17		05-20	
06-11	422	06-14	348	06-17		06-20	
07-11	433	07-14	358	07-17		07-20	
08-11	431	08-14	356	08-17		08-20	
09-11	415	09-14	343	09-17		09-20	
10-11	426	10-14	352	10-17		10-20	
11-11	411	11-14	339	11-17		11-20	
12-11	422	12-14	348	12-17		12-20	



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or 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

**VASTAR RESOURCES, INC.**

3. Address and Telephone No.

**1816 E. MOJAVE ST., FARMINGTON, NM 87401 (505) 599-4300**

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

**SWNW 1770' FNL & 830' FWL SEC. 31, T-32N, R-4W, NMPM**

5. Lease Designation and Serial No.

**NM 30015**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA. Agreement Designation

**CARRACAS UNIT**

8. Well Name and No.

**CARRACAS 31 B #5**

9. API Well No.

**30-039-24417**

10. Field and Pool, or Exploratory Area

**BASIN FRUITLAND COAL**

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

- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other **RE-FRAC**

- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report 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 depths for all markers and zones pertinent to this work.)

Vastar elected to reperforate and refrac the Fruitland Coal in the subject well in an attempt to increase gas flow rates. Treated existing Fruitland perms 3686-3706 and 3742-3746, 24' w/ 4 spf total 96 holes w/ 0.50" diameter w/ 500 gal 10 % formic acid followed w/ 58,457 gal 25# Delta frac 140 gel w/ sandwedge containing 1250 sx 20/40 Brady sand. After cleaning out the 5 1/2" csg to 3805' (PBDT @ 3829'), a 1.9", 2.76#, J-55, 10Rd IJ 10RD tbg assembly was run w/ ' F' nipple and WL Re-entry guide. No pkr, EOT at 3673'. Flow and clean well to a flowback tank. Operator will return the well to production after clean up. Operations started on 06/03/2000 and were completed on 06/22/2000.

cc: BLM, Farmington (Or + 3)

N. Hall  
Well File

14. I hereby certify that the foregoing is true and correct

Signed [Signature]

Title **WORKOVER SUPERVISOR**

Date **06/26/2000**

(This space for Federal or State office use)

Approved by \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

Conditions of approval, if any:

**ACCEPTED FOR RECORD**

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

\*See Instruction on Reverse Side

**11 1 2 2000**

**NR000**

**NASSAU**

Nassau Resources, Inc.  
650 South Cherry, Suite 1225  
Denver, Colorado 80246-1894  
(303) 321-2111 FAX (303) 321-1563

May 30, 2000

Mr. Frank Chavez, Supervisor District 3  
New Mexico Energy, Minerals and Natural Resources Department  
Oil Conservation Division  
1000 Rio Brazos Road  
Aztec, New Mexico 87410



Re: Transfer of Ownership and Operations  
Rio Arriba County Wells

Dear Mr. Chavez:

Please be advised that effective January 1, 2000 Nassau Resources, Inc. (OGRID 015515) has sold all of its right, title and interest in the wells listed on attached Table 2 to Vastar Resources, Inc. (OGRID 036619), whose address is 1816 E. Mojave, Farmington, NM 87401. Vastar will become operator of the wells effective April 1, 2000.

This letter and table are in lieu of submitting individual Forms C-104 for the transfer of ownership of each well.

Thank you for your help in this matter.

Sincerely,  
Nassau Resources, Inc

*for Michael H. Eller, COO*  
M. Burke McHugh  
President

Vastar Resources, Inc.

*Tom E. Yelich*  
Tom E. Yelich  
Attorney-in-Fact

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-104A  
March 19, 2001

Submit 1 copy of the final affected wells  
list along with 1 copy of this form per  
number of wells on that list to appropriate  
District Office

### Change of Operator

#### Previous Operator Information:

OGRID: 036619  
Name: Vastar Resources Inc.  
Address: P.O. Box 3092  
Address: \_\_\_\_\_  
City, State, Zip: Houston, Texas 77253

#### New Operator Information:

Effective Date: 12/31/2001  
New Ogrid: 000778  
New Name: BP America Production Company  
Address: P.O. Box 3092  
Address: \_\_\_\_\_  
City, State, Zip: Houston, TX 77253

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information on this form and the attached list of wells is true and complete to the best of my knowledge and belief.

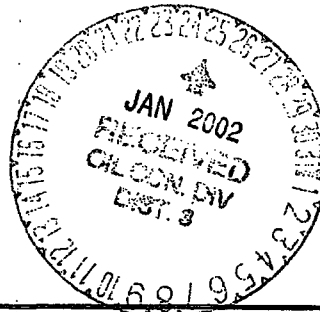
New Operator

Signature: Mary Corley

Printed name: Mary Corley

Title: Sr. Regulatory Specialist

Date: 12/10/2001 Phone: 281-366-4491



Previous operator complete below:

Previous

Operator: Vastar Resources Inc.

Previous

OGRID: 036619

Signature: Mary Corley

Printed

Name: Mary Corley

#### NMOCD Approval

Signature: \_\_\_\_\_

Printed

Name: 27.8

SUPERVISOR DISTRICT #3

District: \_\_\_\_\_

JAN 25 2002

Date: \_\_\_\_\_

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-104A  
Revised June 10, 2003

Submit 1 copy of the final affected wells  
list along with 1 copy of this form per  
number of wells on that list to appropriate  
District Office

### Change of Operator

#### Previous Operator Information:

OGRID: 000778  
Name: BP AMERICA PRODUCTION CO.  
Address: P.O. BOX 3092  
Address: \_\_\_\_\_  
City, State, Zip: HOUSTON, TX 77253

#### New Operator Information:

Effective Date: 06/01/2003  
New Ogrid: 162928  
New Name: ENERGEN RESOURCES CORP.  
Address: 2198 BLOOMFIELD HIGHWAY  
Address: \_\_\_\_\_  
City, State, Zip: FARMINGTON, NM 87401

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information on this form and the attached list of wells is true and complete to the best of my knowledge and belief.

New Operator

Signature: \_\_\_\_\_

Printed name: GARY W. BRINK

Title: GENERAL MANAGER - SAN JUAN BASIN

E-mail

Address: gbrink@energen.com

Date: 08/25/03

Phone: 505-325-6800



Previous operator complete below:

Previous

Operator: BP AMERICA PRODUCTION COMPANY

Previous

OGRID: 000778

Signature: \_\_\_\_\_

Printed

Name: MARY CORLEY

E-mail

Address: \_\_\_\_\_

#### NMOCD Approval

Signature: \_\_\_\_\_

Printed

Name: 37.8  
SUPERVISOR DISTRICT #3

District: \_\_\_\_\_

AUG 27 2003

Date: \_\_\_\_\_