

Vastar Resources, Inc.

15375 Memorial Drive Houston Texas 77079 281 584-6000

June 19, 2000

Lori Wrontenbery, 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 19 B Well No. 4, to be located 1,170 feet from the North line and 830 feet from the West line of Section 19, Township 32 North, Range 4 West, N.M.P.M., Rio Arriba County, New Mexico

Dear Ms. Wrotenbery:

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 19 B Well No. 4, to be drilled in the Fruitland Coal formation at an unorthodox well location 1,170 feet from the North line and 830 feet from the West line of Section 19, Township 32 North, Range 4 West, N.M.P.M., Rio Arriba County, New Mexico. A standard 320-acre spacing and proration unit comprised of the W/2 of Section 19 will be dedicated to the well.

The well will be drilled to a depth of approximately 4,200 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. Alamo Canyon occupies the majority of the SE of Section 19. 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.

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Applic		[NSP-Non-Standar [DD-Direction C-Downhole Commingling] [PC-Pool Commingling] [[WFX-Waterflood Ex	[OLS - Off-Lease Storag pansion] [PMX-Press er Disposal] [IPI-Inject	Itaneous Dedicatio gling] [PLC-Pool/ e] [OLM-Off-Leas ure Maintenance E: tion Pressure Incre	n] Lease Commingling] ee Measurement] xpansion] ase]
[1]	TYPE OI [A	APPLICATION - Che] Location - Spacing 2 NSL DNSP	Unit - Directional D	rilling	JUN 20 2000
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	[B] Offset Operators	s, Leaseholders or Su	irface Owner	$\left(-\frac{1}{2} \right)$
	[C] • Application is O	one Which Requires I	Published Legal 1	Notice OF led the SLO M
	_[D] DNotification and	/or Concurrent Appr Bureau of Land Management - Commissioner of Public	oval by BLM or Lende, State Land Office	slo M
	[E] For all of the abo	ove, Proof of Notific	ation or Publicat	ion is Attached, and/or,
	[F] 🛛 Waivers are Atta	ached		

[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 i	political with supervisory capacity.
Thomas L. Elthi	an Rockies Engineering Manager
Signature	Title

June 19, 2000 Date

Thomas L. Fithian Print or Type Name

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Lori Wrontenbery, Director Oil Conservation Division New Mexico Department of Energy, Minerals and Natural Resources Carracas 19 B #4 Unorthodox Location 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,

Michael Rodgers, CPL

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

Enclosures



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1816 E. Mojave St. Farmington, New Mexico 87401 505 599-4300 505 599-4328 Fax

June 12, 2000

Bureau of Land Management Farmington District Office 1235 La Plata Highway Farmington, New Mexico 87401

Re: APD - Carracas 19 B #4

Attached please find an APD package for the proposed Carracas 19 B #4 well located in the Carson National Forest in Rio Arriba County, New Mexico. Included are the following items:

APD form 3160-3 Surveyors plat with well location and elevation USGS Topographic Orientation Map Eight part Drilling Plan Thirteen part Surface Use Plan Drill site location/rig layout and site crossection Offset well identifier map showing wells within a one mile radius BOP stack diagram Choke manifold diagram Surface production facilities diagram

A notice of staking was filed with your office on May 16, 2000 and an onsite review was performed with Cam Hooley of the Forest Service and Charlie Knight representing Vastar. The Forest Service had originally requested the existing reserve pit be set aside as a watering hole for area wildlife. At the onsite meeting the pit had dried up and the Forest Service decided to let Vastar use the pit for drilling operations provided an alternative wildlife pit is constructed. A wildlife pit location was selected then arch surveyed with no findings and an arch report will be available within the next few days. Please note the attached plat and support materials are for the original location as built and not for the site referenced with the NOS.

The proposed well site is unorthodox due to the location in the NW/4 of the section and an application for administrative approval for the well is in progress. Please contact Charlie Knight at Vastar in Farmington at (505) 599-4308 or Dave Reid at Vastar in Houston at (281) 584-3702 if further information is needed to process the attached application.

Car King

Charles W. Knight, Jr. Engineer

JUN.14.2000	8:09AM	VASTAR
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Form 3160-3 (July 1992)	UNIT DEPARTMENT	ED STATES		SU UMIT IN TR (Other instruc reverse al	LIONE ON	OMB NO. 1004-0136 Expires: February 28, 1995
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VASTAR RESOUR	LL A OTHER		BINGLE Zone	MULTIF 20NE	" 🗋 _	B. FARM OR LEASE NAME WELL NO. CARRACAS 19B #4
3. ADDRESS AND TELEPHONE NO. 1816 E. MOJAVI 4. LOCATION OF WELL (BE AL NUTLACE	E, FARMINGTON N	In accordance wit	(505) 599			10. FIBLD AND FOOL, OR WILDCAT BASIN FRUITLAND COAL 11. BEC. T. B., W. OB BLE.
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18. DISTANCE PROM FROM TO NEARAST WELL, DR OR APPLIED FOR, ON THIS	BED LOCATION ⁴	1961'	10. PROPOSED	200 '	20. ROTAL ROTA	ARY
21. ELEVATIONE (Show whe 740]	ther DF, RT, GR. etc.)					22. APPROL DATE WOLE WILL START" JULY, 2000
23.		PROPOSED CAS	ING AND CEME	NTING PROGRA	м	
SIZE OF ROLL	GRADE, SIZE OF CASTNO	WEIGHT PER P	100T 81	TTING DEPTH		QUANTIZY OF CEMENT
<u>12-1/4"</u> 7-7/8"	<u>8-5/8"</u> <u>5-1/2"</u>	<u> 24</u> # 15.5#		400' 4200.'	-	<u>sx (354 cf) Circ.to Surf.</u> sx (1730 cf)Circ.to Surf.

IN ABOVE SPACE DESCRIBE PROPOSED	PROORAM: If propagal is to deepert, give data of	on present productive zone and proposed new p	roductive zone. If proposal is to drill or
despen directionally, give pertinent data on su	saurface locations and measured and true vertical	depths. Give blowout preventer program. If any.	

24. TITLE ENGINEER (505) 6 (599-4308 DATE SIGNED HADLES W KNH (This space for Federal or State office use)

PERMIT NO.

Application approval does not warrant or certify that the applicant holds legal or equivable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

APPROVAL DATE .

DATE

APPROVED BY

*See Instructions On Reverse Side

Title IB 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.

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TABLE OF CONTENTS

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Carracas 19 B #4

DRILLING PLAN

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PAGE

1.	Formation Tops	1
2.	Anticipated Depth of Oil, Gas, and Water	1
3.	Blow Out Preventor Requirements	1
4.	Casing and Cement Program	2
5.	Mud Program	2
6.	Testing, Logging, and Coring	3
7.	Abnormal Pressures and H ₂ S Gas	3
8.	Other Information and Notification Requirements	3

SURFACE USE PLAN

1.	Existing Roads
2.	Access Roads to be Constructed or Reconstructed
3.	Location of Wells within One Mile
4.	Proposed Production Facilities
5.	Water Supply
6.	Construction Materials
7.	Waste Disposal
8.	Ancillary Facilities
9.	Wellsite Layout
10.	Reclamation
11.	Surface/Mineral Ownership
12.	Other Information
13.	Certification

DRILLING PLAN

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

Ojo Alamo	3268'
Kirkland	3523'
Fruitland	3965'

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

Ojo Alamo	3268' - Water
Fruitland	3965' - 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:**

Interval	Pressure Control Equipment
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 nippled 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

Page 2

Vastar Resources, Inc. Carracas 19 B #4 1170' FNL, 830' FWL Sec 19, T32N, R4W Rio Arriba County, New Mexico

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4. CASING AND CEMENTING PROGRAM:

The proposed casing program will be as follows:

Hole Section	Hole Size	Interval	Casing Size	Casing Specs
Surface Production	12-1/4" 7-7/8"	Surface to 400' 400' to 4200'	8-5/8" 5-1/2"	24# J-55 STC 17# J-55 LTC
Hole S	Section	<u>Slurries</u>		
Surfac	e 300 s	x Class B with 3% (354 cu. ft., 1.18	-	CF
Production Lead 800 sx 35:65 Class B:poz + 1/4 lb/sk CF (1592 cu Tail 100 sx 50:50 Class B:poz + + 0.4% FLA + 1/4 lb/sk		1592 cu. ft., 1.99 y B:poz + 5#/sx Gil	vield) sonite	

5. <u>MUD PROGRAM</u>: The proposed circulating mediums to be employed in drilling are as follows:

Dept	t <u>h</u>	<u>Mud Type</u>	Density	<u>Funnel Vis</u>	<u>Fluid Loss</u>
Surfa	ace to 400'	Spud Mud	8.3 to 9.5 ppg	; 30 to 60	No Control
400'	to 3500'	Water	8.3 to 8.7 ppg	; 28 to 35	No Control
3500)' to TD	LSND	8.7 to 9.2 ppg	35 to 45	≤ 20 cc

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- 6. <u>**TESTING, LOGGING, AND CORING:</u>** The anticipated type and amount of testing, logging, and coring are as follows:</u>
 - a. Drill stem tests are not anticipated.
 - b. The electric wireline logging program will be as follows:

Temperature survey if cement does not circulate. Cased hole GR/CCL/CNL

- c. Mud logging: 3500' to TD.
- d. Coring program: No cores are anticipated.

7. ABNORMAL PRESSURES AND H₂S GAS:

No abnormal conditions are anticipated during the drilling and completion of this well. Standard well control practices and equipment will be used for the duration of this well.

8. OTHER INFORMATION & NOTIFICATION:

- a. Vastar Resources, Inc. is operating under our United Pacific national bond on file with the BLM. That BLM bond number is ES 0309.
- b. Construction operations are planned to start pending approval of the APD. Location preparation is estimated to take 2 to 3 days. The drilling activity should take 6 days. The drilling rig may be used for the completion portion of the well. The completion activities are anticipated to take 9 days. Total duration of activities preparing this well to produce should take an estimated 23 days.
- c. In the event of an emergency, contact the following:

Charlie Knight	Dave Reid
Project Engineer	Project Engineer
(505) 599-4308 (office)	(281) 584-3702 (office)
(281) 599-4338 (fax)	(281) 584-6810 (fax)

Page 4

Vastar Resources, Inc. Carracas 19 B #4 1170' FNL, 830' FWL Sec 19, T32N, R4W Rio Arriba County, New Mexico

SURFACE USE PLAN

1. <u>EXISTING ROADS</u>:

- a. The proposed well site is located about 42 miles east-northeast of Bloomfield, New Mexico (this distance is direct and not by road). See attached USGS Topographic orientation map and offset well map for reference.
- b. Road Directions to the location are as follows:

From Bloomfield, NM: Go east on Hwy 64 about 48 miles to the 114-1/2 mile marker and turn left on Forest Road 310. Go north on FR 310 for 18.7 miles at which point the road becomes FR 218. Continue northward for another 7.6 miles to a Y in the road at Carracas 18 B #13. Take the left fork which will be FR 2188 and go southwest about 3/4 mile and turn left onto Carracas 19 B #4 access road and pass through gate and on to Carracas 19 B #4 well site.

- c. For location of existing access roads within a 2 mile radius, see attached maps.
- d. Improvement to the existing access will not be necessary.
- e. All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.
- f. Existing roads and newly constructed roads on surface under the jurisdiction of any Surface Managing Agency shall be maintained in accordance with the standards of the SMA.

2. ACCESS ROADS TO BE CONSTRUCTED OR RECONSTRUCTED:

A new lease road will not be required since well location is located at the end of an existing road.

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3. <u>LOCATION OF EXISTING WELLS WITHIN A ONE MILE RADIUS</u> <u>OF THE PROPOSED LOCATION :</u>

Reference attached maps for the location of offsetting wells below:

a. Producing wells -

<u>T31N, R5W</u> Section 18 18 B #15	<u>Well #</u> 18 B #13 Fruitland Coal	Producing Formation Fruitland Coal
Section 19	19 B #1	Fruitland Coal
<u>T31N, R5W</u> Section 13	13 A #15	Fruitland Coal
Section 24	24 A #7	Fruitland Coal

- b. Drilling Wells none
- c. Plugged Wells none
- d. Dry Holes none

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4. <u>LOCATION OF TANK BATTERIES AND PRODUCTION</u> <u>FACILITIES:</u>

Production facilities will be installed as per the attached facilities diagram. The production equipment to be utilized will be a separator, water tank, and a gas meter run.

5. LOCATION AND TYPE OF WATER SUPPLY:

- a. All water needed for drilling purposes will be fresh water purchased from commercial sources and treated with Biocide as needed.
- b. No water well is to be drilled on this lease.

6. <u>SOURCE OF CONSTRUCTION MATERIAL:</u>

- a. Surface and subsoil materials will be hauled in from the immediate area.
- b. Any gravel used will be obtained from a commercial source and transported in on the designated access route.

7. <u>METHODS OF HANDLING WASTE DISPOSAL:</u>

- a. Drill Cuttings will be handled in the reserve pit and buried during reclamation operations. The pit will be fenced on three sides during drilling and the fourth side fenced upon removal of the drilling rig.
- b. Garbage and nonflammable waste produced during the drilling or testing will be handled in a trash bin.
- c. Toilet facilities will be provided for human waste.
- d. Drilling fluids will be handled in the reserve pit.

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e. Any fluids produced during drilling or production tests will be collected in a test tank. If a test tank is not available during drilling, fluids will be handled in the reserve pit. Any spills of oil, gas, salt water, or other noxious fluids will be cleaned-up and removed. If the well is productive, produced water will be disposed of on site for 90 days. After that time, application will be made for approval of permanent disposal methods.

8. <u>ANCILLARY FACILITIES:</u>

There are no airstrips, camps, or other facilities planned during the drilling of the proposed well.

9. <u>WELL SITE LAYOUT:</u>

- a. The reserve pit will be located on the southwest side of the location.
- b. Access to the wellpad will be along an existing lease road.
- c. The location of mud tanks, reserve pit, flare pit, and pipe racks will be as shown on the wellpad layout plat.
- d. See pad cross-section plat for cut and fill of the drill pad.

10. PLANS FOR RESTORATION OF SURFACE:

Producing Location

a. Immediately upon completion of drilling operations, the location and surrounding area will be cleared of all unused tubulars, equipment, debris, materials, trash and junk not required for production and "back dragged" in readiness for completion operations.

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- b. Immediately upon well completion, any stimulation fluids collected in the test tank will be disposed of. As this is a dry gas well, no production of liquid hydrocarbons is expected.
- c. Cuttings will be buried in the reserve pit. The pits and any portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours, fertilized, and seeded.

Plugged and Abandoned Well

a. Dry hole reclamation will be coordinated with the BLM at the time of abandonment as to the physical requirements and timing & weather issues.

11. SURFACE & MINERAL OWNERSHIP:

Access roads	All existing roads to the lease are maintained and owned by the County, State Highway Department, U.S. Forest Service, and/or the area operator road committee.
Wellsite & Road	The lease road and the wellpad are located on surface owned by:
	U.S. Forest Service Jicarilla Ranger District 664 E. Broadway Bloomfield, NM 87413

LEASE INFORMATION:

BLM Lease Number: NM 30015

12. OTHER INFORMATION:

a. All vehicle traffic will be restricted to the access road, lease road, and well pad. Vastar will prohibit firearms & alcoholic beverages from the location and lease.

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13. <u>LESSEE'S OR OPERATOR'S REPRESENTATIVE AND</u> <u>CERTIFICATION:</u>

Questions about this permit application or emergency notifications should be directed to:

Permit, Drilling, & Completion Matters Vastar Resources, Inc. 1816 E. Mojave Farmington, NM 87401 (505) 599-4300

Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; and that the work associated with operations proposed herein will be performed by Vastar Resources, Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

This statement is subject to the provisions of 18.U.S.C. 1001 for filing of a false statement.

<u>6-12-00</u> Date

Cart

Charles W. Knight, Jr.

For: Joe Garcia Vastar Resources, Inc.

TYPICAL LOCATION LAYOUT FOR FRUITLAND WELL



Vastar Resources, Inc. Carracas 19 B #4 1170' FNL, 830' FWL Section 32, T32N, R4W Rio Arriba County, New Mexico







Figure #1 (BOP)

Choke Manifold and Accumulator Schematic







Exhibit D

Attached to Request for Administrative Approval of an Unorthodox Location for Vastar's Carracas 19 B #4 Well in W2 Section 19, T32N-R4W, NMPM, Rio Arriba County, New Mexico



Exhibit E

Attached to Request for Administrative Approval of an Unorthodox Location for Vastar's Carracas 19 B #4 Well in W2 Section 19, T32N-R4W, NMPM, Rio Arriba County, New Mexico

List of Affected Parties

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CNG Resources, Inc. Stephen Case, Landman 16945 Northchase Drive – Suite 1750 Houston, Texas 77060 (281) 873-1574

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

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US Postal Service

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your RETURN ADDRESS	5. Received By: (Print Name)		8. Addressee' and fee is p		Only if requested	Thank you for using Return Receipt Service.
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Domestic Return Receipt

Joint Ventures and Land



Vastar Resources, Inc.

15375 Memorial Drive Houston Texas 77079 281 584-6000

June 19, 2000

By USPS Certified Mail With Return Receipt P 066 862 333

CNG Resources, Inc. Stephen Case, Landman 16945 Northchase Drive – Suite 1750 Houston, Texas 77060

> Re: Application of Vastar Resources, Inc. for Administrative Approval of an Unorthodox Well Location for its Carracas 19 B Well No. 4, to be located 1,170 feet from the North line and 830 feet from the West line of Section 19, Township 32 North, Range 4 West, N.M.P.M., Rio Arriba County, New Mexico

Gentlemen:

Notice is hereby given of Vastar Resources, Inc.'s application to the NMOCD for an Unorthodox Fruitland Coal Well Location for the captioned well. A copy of Vastar's application is enclosed. In accordance with NMOCD Rule 1206(A)(5) an objection to this application must be filed in writing within twenty days from the date this notice was sent.

By the enclosed Waiver, Vastar requests your company's waiver of its right to protest the application and the twenty-day period during which it might file a written protest.

Very truly yours,

Michael Rodgers, CPL

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

Enclosure

Joint Ventures and Land





15375 Memorial Drive Houston Texas 77079 281 584-6000

June 19, 2000

CNG Resources, Inc. Stephen Case, Landman 16945 Northchase Drive – Suite 1750 Houston, Texas 77060

> Re: Application of Vastar Resources, Inc. for Administrative Approval of an Unorthodox Well Location for its Carracas 19 B Well No. 4, to be located 1,170 feet from the North line and 830 feet from the West line of Section 19, Township 32 North, Range 4 West, N.M.P.M., Rio Arriba County, New Mexico

Gentlemen:

Notice has been given of Vastar Resources, Inc.'s application to the NMOCD for an Unorthodox Fruitland Coal Well Location for the captioned well. In order to facilitate the application and drilling of this well, Vastar requests your company's waiver of its right to protest the application and the twenty-day period during which it might file a written protest.

If CNG Resources, Inc. is willing to waive its right to protest the application, please so indicate by completing the waiver below and forwarding the signed original of this request to the Oil Conservation, Division of the New Mexico Department of Energy, Attention: Mr. Michael Stogner, 2040 South Pacheco Street, Santa Fe, New Mexico 87505. Please forward a copy of this signed waiver to the undersigned at the letterhead address.

Very truly yours,

Michael Rodgers, CPL

Direct Line: (281) 584-3230 Fax: (281) 584-6370

This ______ day of June, 2000, CNG Resources, Inc. hereby waives its right to protest Vastar's application for an unorthodox location for the above referenced Fruitland Coal well.

Title:



Joint Ventures and Land



15375 Memorial Drive Houston Texas 77079 281 584-6000

June 19, 2000

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

Re: Applications of Vastar Resources, Inc. for Administrative Approval of Unorthodox Fruitland Coal Well Locations in Carracas Canyon Area, Rio Arriba County, New Mexico

Gentlemen:

Enclosed for your records are copies of Vastar Resources, Inc.'s applications to the NMOCD in Santa Fe for Unorthodox Fruitland Coal Well Locations for the following wells.

Carracas 19 B Well No. 4 Carracas 25 A Well No. 16 Carracas 2 A Well No. 11 in a non-standard 368.6-acre spacing unit Carracas 36 A Well No. 5

Very truly yours,

Michael Rodgers, CPL

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

Enclosures