

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 28277	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR VASTAR RESOURCES, INC.		7. UNIT AGREEMENT NAME	
3. ADDRESS AND TELEPHONE NO. 1816 E. MOJAVE, FARMINGTON NM 87401 (505) 599-4300		8. FARMOR LEASE NAME, WELL NO. CARRACAS 17B #14	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 795' FSL, 1940' FWL At proposed prod. zone 1839' FSL, 802' FWL (Midpoint Coal)		9. AN WELL NO. 30-039-26485	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* MILES EAST-NORTHEAST OF BLOOMFIELD, NM		10. FIELD AND POOL, OR WILDCAT BASIN FRUITLAND COAL	
10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit line, if any) 802'		11. SEC., T., R., M., OR S.W. AND SURVEY OR AREA SEC. 17, T-32N, R-4W	
13. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2500'		12. COUNTY OR PARISH RIO ARRIBA	
16. NO. OF ACRES IN LEASE 2525.47		15. STATE NM	
18. PROPOSED DEPTH 4319' TVD, 4691' MD		17. NO. OF ACRES ASSIGNED TO THIS WELL 320	
20. ROTARY OR CABLE TOOLS ROTARY		19. APPROX. DATE WORK WILL START* JULY, 2000	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 7439' GL			

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#	4691' MD	1063 sx (2055 cf.) Circ. to Surf.

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

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

Directional drilling (see attached directional plan) begins 50' below surface casing at 450' and builds to 33° max then holds before dropping back towards vertical (S shaped) to 10° max through coal to TD.

SHL	795' FSL	1940' FWL	0' TVD	0' MD
Top of Coal	1838' FSL	804' FWL	4214' TVD	4585' MD
Midpoint Coal	1839' FSL	802' FWL	4227' TVD	4598' MD
Bottom of Coal	1841' FSL	800' FWL	4239' TVD	4610' MD
BHL at TD	1850' FSL	790' FWL	4319' TVD	4691' MD

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.

SIGNED

Charles W. Knight, Jr.
CHARLES W. KNIGHT, JR.

TITLE ENGINEER (505) 599-4308

DATE 6/20/00

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:

NMOCD

APPROVED BY /s/ Jim Lovato

TITLE Team Lead, Petroleum Management

DATE AUG - 8 2000

*See Instructions On Reverse Side HOLD C104 FOR Directional Survey

2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

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

☐ AMENDED REPORT

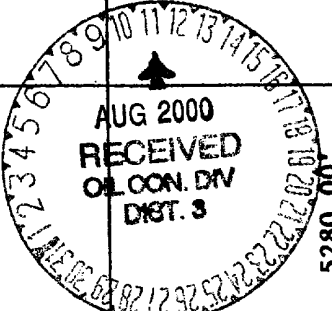
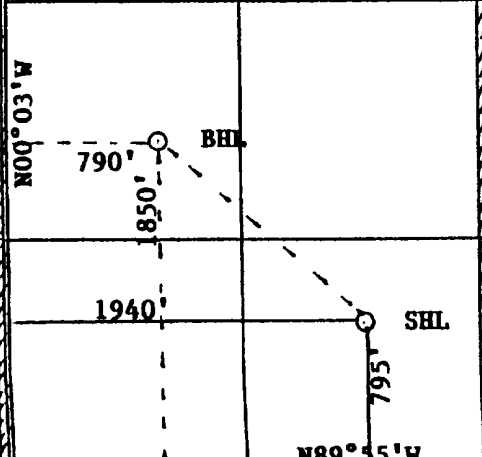
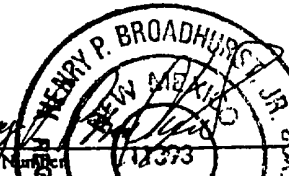
30-039-26485		Pool Code 71629	Pool Name Basin Fruitland Coal
Property Code 26273	Property Name CARRACAS 17B		Well Number 14
OGRID No. 36619	Operator Name VASTAR RESOURCES, INC.		Elevation 7439'

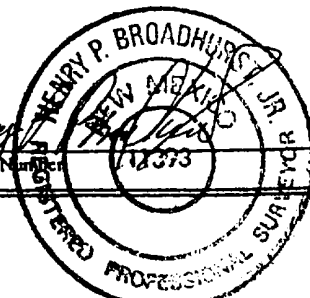
UL or lot no. N	Section 17	Township 32N	Range 4W	Lot Idn	Feet from the 795'	North/South line SOUTH	Feet from the 1940'	East/West line WEST	County RIO ARRIBA
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UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	17	32N	4W		1850'	SOUTH	790'	WEST	RIO ARRIBA

¹² Dedicated Acres 320 ac	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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

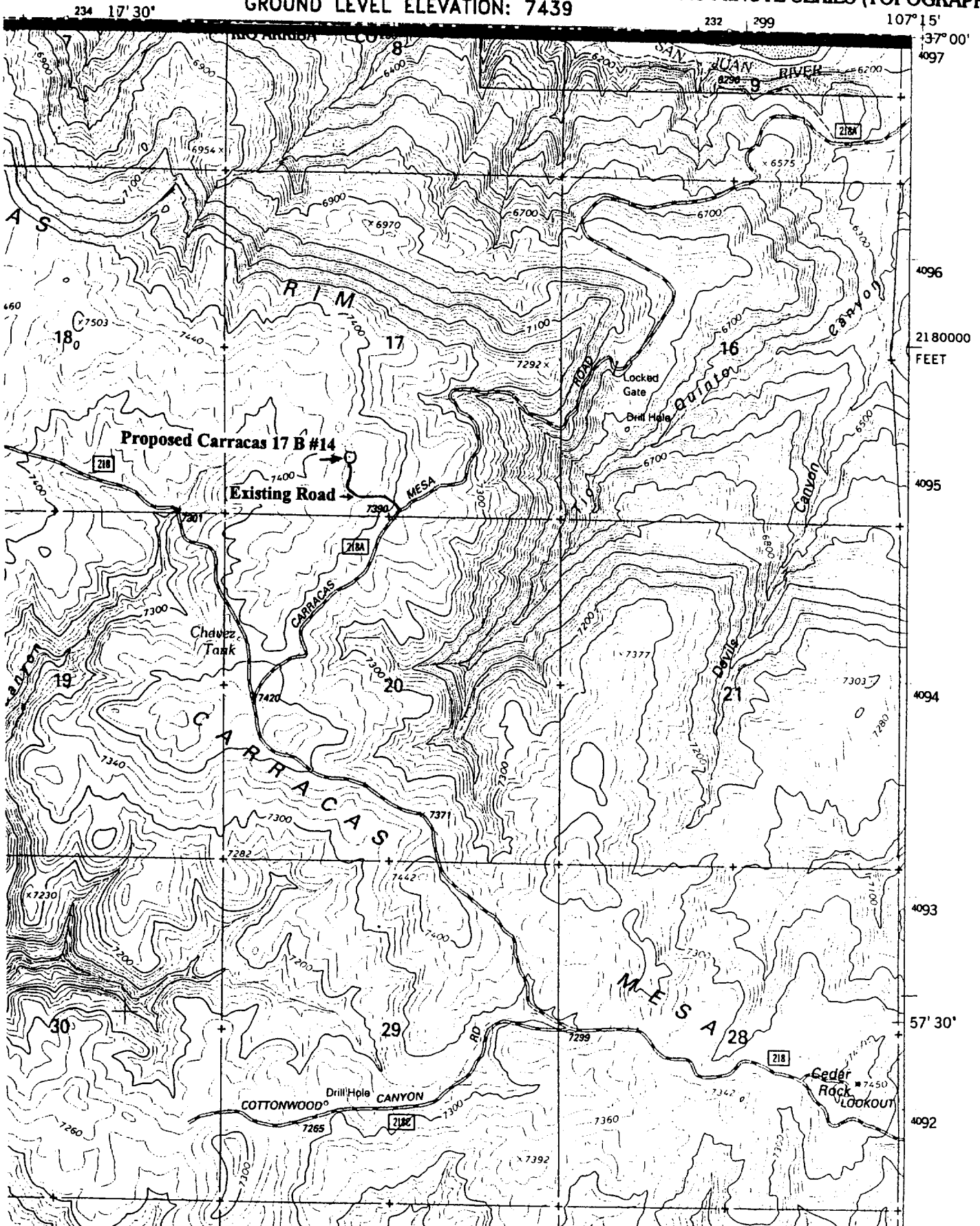
<p>THIS STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION</p>		<p>17 OPERATOR CERTIFICATION</p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</i></p>	
<p>16</p>	<p>West</p>	<p>5266.80'</p>	
<p>5280.00'</p>	<p>Section 17</p>		<p>5280.00'</p>
<p>N00°03'W</p>			<p>N00°03'W</p>
<p>N89°55'W</p>		<p>5270.10'</p>	<p>18 SURVEYOR CERTIFICATION</p> <p><i>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.</i></p>
<p>Signature</p> <p><i>Charles W. Knight, Jr.</i></p>		<p>Printed Name</p> <p>Charles W. Knight, Jr.</p>	
<p>Title</p> <p>Engineer</p>		<p>Date</p> <p>June 21, 2000</p>	
<p>Date of Survey</p> <p>05/05/00</p>		<p>Signature and Seal of Professional Surveyor:</p> <div style="text-align: right;">  </div>	



VASTAR RESOURCES, INC.
CARRACAS UNIT 17B #14

795' FSL, 1940' FWL
SW/4 SEC.17, T-32-N, R-4-W, N.M.P.M.,
RIO ARriba COUNTY, NEW MEXICO
GROUND LEVEL ELEVATION: 7439

BANCOS MESA QUADRANGLE
NEW MEXICO
7.5-MINUTE SERIES (TOPOGRAPHIC)



Vastar Resources, Inc.
Carracas 17 B #14
SHL: 795' FSL, 1940' FWL
BHL: 1850' FSL, 790' FWL
Sec 17, T32N, R4W
Rio Arriba County, New Mexico

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DRILLING PLAN

Directional drilling (**see attached directional plan**) begins 50' below surface casing at 450' and builds to 33° 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	3552' TVD
Kirkland	3677' TVD
Fruitland	3977' TVD
Top of Coal	4214' TVD, 4585' MD
TD	4319' TVD, 4691' MD

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

Ojo Alamo	3552' TVD - Water
Fruitland	3977' 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