

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK DRILL <input type="checkbox"/> DEEPEN <input checked="" type="checkbox"/> RE-ENTRY		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. ARBOLES 20-A #1Y	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 1525' FSL & 750' FWL		9. AP WELL NO. 30-039-23562	
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* 43 MILES EAST-NORTHEAST OF BLOOMFIELD NM		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SEC. 20, T-32N, R-4W	
13. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 750'		12. COUNTY OR PARISH RIO ARRIBA	
19. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, 2650' OR APPLIED FOR, ON THIS LEASE, FT.		13. STATE NM	
16. NO. OF ACRES IN LEASE 2525.47		17. NO. OF ACRES ASSIGNED TO THIS WELL 320	
18. PROPOSED DEPTH 4217'		20. ROTARY OR CABLE TOOLS ROTARY	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 7402' GL, 7414' KB		22. APPROX. DATE WORK WILL START* JULY, 2000	

EXISTING ~~PROPOSED~~ CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13-3/4"	9-5/8"	32.3#	202'	170 sx(200cf) Circ to Surf
8-3/4"	7"	23#	4078'	550 sx(797cf) Circ to Surf
6-1/4"	5-1/2" Liner	15.5#	4008'-4211'	2 sx (2.36cf)

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS"This action is subject to technical and
procedural review pursuant to 43 CFR 3165.3
and appeal pursuant to 43 CFR 3165.4

Re-entry of the plugged Arboles 20-A #1Y is proposed as follows:

1. Dig out around casing stubs, weld on extensions & bradenhead, packoff 7" with slips & install tubing head.
2. Drill out surface cement plug to 271' with 6-1/4" fishtail bit and 4-3/4" drill collars on 2 7/8" workstring.
3. Drill out cement plug from 1901' to 2045' and cement plug from 3445' to top of cement retainer at 3980'.
4. Drill/mill retainer and cement from 3980' to top of 5-1/2" liner at 4008' and pressure test 7" casing.
5. Drill out cement in 5-1/2" liner to 4200' using 4-3/4" bit.
6. Circulate hole clean and circulate 500 gal 15% HCL acid to wash casing. Run logs if needed.
7. Spot 500 gal 10% Formic acid at 4162'.
8. Perforate Fruitland Coal interval 4143'-4162' with 4 SPF.
9. Breakdown, frac, run 2-7/8" tubing, and flow test Fruitland Coal.

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.

24.

SIGNED

Charles W. Knight, Jr.

TITLE

ENGINEER

DATE

6/14/00

(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

TITLE

DATE

JUL 20 2000

*See Instructions On Reverse Side

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-039- 23562		2. Pool Code 71629		3. Pool Name BASIN FRUITLAND COAL	
4. Property Code		5. Property Name ARBOLES 20 A			6. Well Number 1
7. OGRID No. 36619		8. Operator Name VASTAR RESOURCES, INC.			9. Elevation 7402' GL

10 Surface Location

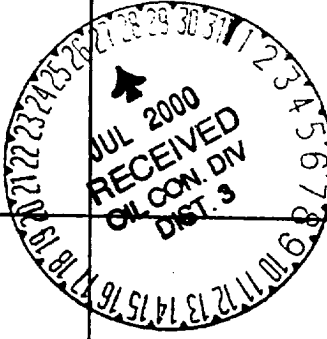
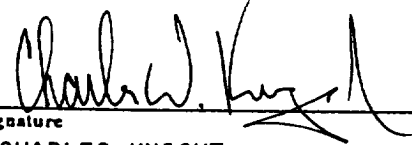
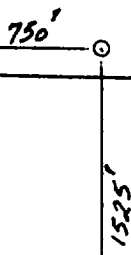

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	20	32N	4W		1525	SOUTH	750	WEST	RIO ARriba

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

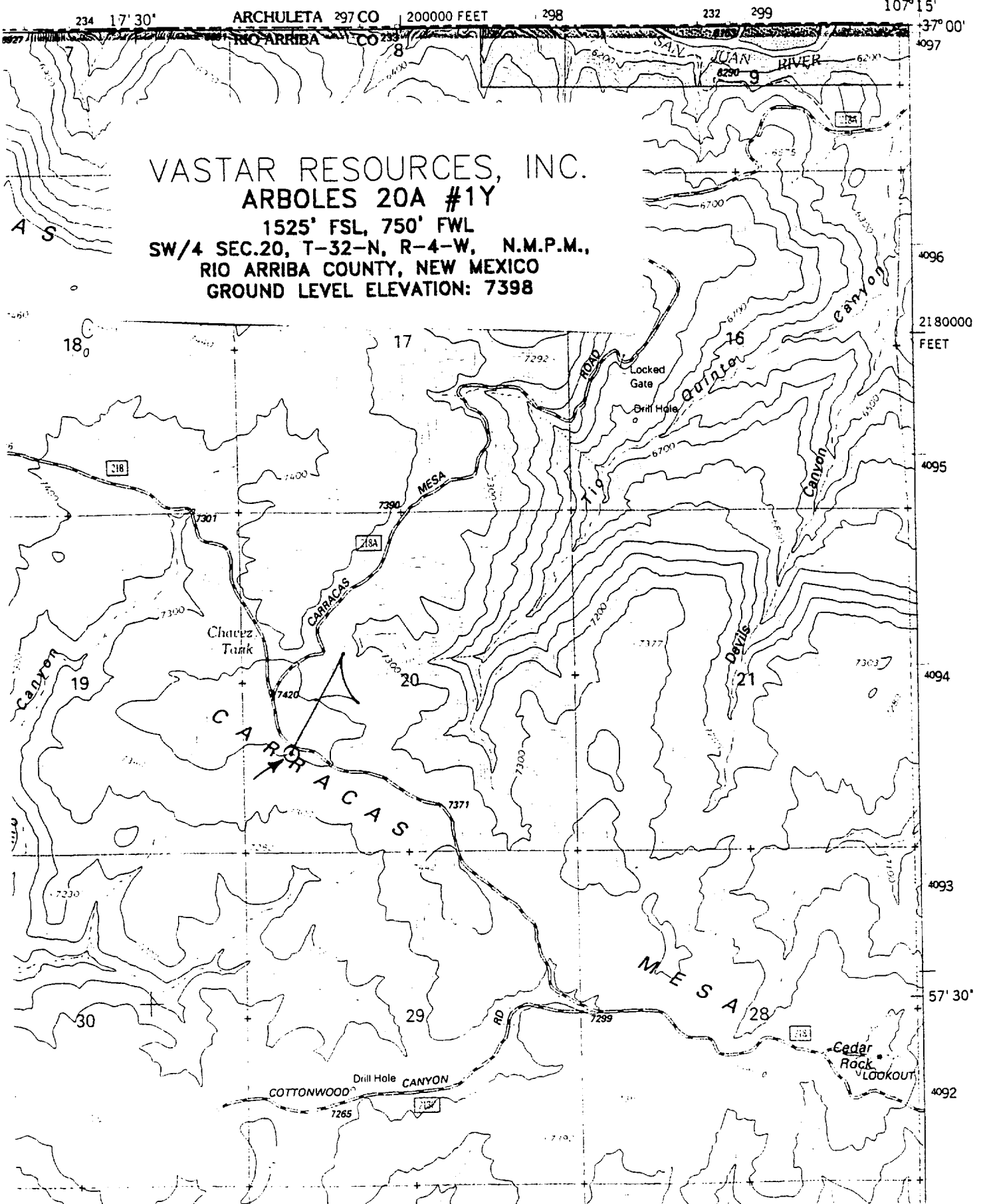
12. Dedicated Acres 320.82	13. Joint or Infill	14. Consolidation Code	15. Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16					17. OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.
					Signature  Printed Name CHARLES KNIGHT Title ENGINEER Date 7/24/00
750' 					18. SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.
					Date of Survey Signature and Seal of Professional Surveyor: RE-SUBMIT  RE-15506 Certificate Number



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



Vastar Resources, Inc.
Arboles 20-A #1Y
1525' FSL, 750' FWL
Sec 20, T32N, R4W
Rio Arriba County, New Mexico

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

Ojo Alamo	3495'
Kirkland	3632'
Fruitland	3865'

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

Ojo Alamo	3495' - Water
Fruitland	3865' - Gas

All zones capable of oil, gas, or water production are protected with 7" or 5 1/2" casing.

4. **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.
Arboles 20-A #1Y
1525' FSL, 750' FWL
Sec 20, T32N, R4W
Rio Arriba County, New Mexico

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RE-ENTRY PLAN

1. PROCEDURE: Re-entry of the plugged Arboles 20-A #1Y is proposed as follows:

1. Dress and recover location to contain rigs and frac equipment. Set and test anchors.
2. Drill small hole into P&A marker cap and check for gas.
3. Dig out around well and remove cement to expose 9-5/8" and 7" casing stubs. Weld on extensions to casing to locate wellhead at desired elevation. Weld bradenhead onto 9-5/8" casing and packoff 7" casing with slips – seals and plastic. Install tubinghead and test seals to wellhead rating.
4. Move in workover rig with power swivel, pump, and ancillary equipment to drill out cement plugs in 7" casing and 5-1/2" liner.
5. Drill out surface cement plug to 225' with 6-1/4" fishtail bit and 4-3/4" drill collars on 2-7/8" workstring.
6. Drill out cement plugs from 1901' to 2045' and from 3445' to top of cement retainer at 3980'.
7. Use milltooth bit or mill to drill through cement retainer then drill cement to top of 5-1/2" liner at 4008'.
8. Pressure test 7" casing to 4000 psi (90% of burst). Cement squeeze as needed to achieve pressure test.
9. Circulate hole clean and drill out cement in 5-1/2" liner to 4200' using 4-3/4" bit on 2-7/8" workstring.
10. Circulate hole clean and run cased hole logs if needed.
11. Spot 500 gal 10% Formic acid at 4162'.
12. Perforate Fruitland Coal interval 4143'-4162' with 4 SPF.
13. Breakdown, frac, run production tubing, and flow test Fruitland Coal.