

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>				5. LEASE DESIGNATION AND SERIAL NO. SF-080566-A	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>				6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Beartooth Oil & Gas Company				7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR P. O. Box 2564, Billings, Montana 59103				8. FARM OR LEASE NAME Minel - Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 790' FSL, 790' FWL At proposed prod. zone same				9. WELL NO. #1-E	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 12 miles NW of Lindrith				10. FIELD AND POOL, OR WILDCAT Basin Dakota into Gallup, Dakota	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 790'		16. NO. OF ACRES IN LEASE 856		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 9W1SW1 Sec. 7-25N-3W	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2892'		19. PROPOSED DEPTH 8260'		12. COUNTY OR PARISH Rio Arriba	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 7191' GR, 7205 KB		20. ROTARY OR CABLE TOOLS Rotary		13. STATE New Mexico	
22. APPROX. DATE WORK WILL START* August 1, 1981				17. NO. OF ACRES ASSIGNED TO THIS WELL 308.06 37.61	
23. PROPOSED CASING AND CEMENTING PROGRAM "GENERAL REQUIREMENTS"					
SIZE OF HOLE		SIZE OF CASING		WEIGHT PER FOOT	
12-1/4"		8-5/8"		24#	
7-7/8"		4-1/2"		11.6#	
				SETTING DEPTH	
				300'	
				8260'	
24. 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 preventer program, if any.					

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JUN 15 1981  
OIL CON. COM.  
DIST. 3This action is subject to administrative  
appeal pursuant to 30 CFR 290.  
200 sx (cement to surface)  
970 sx \*

Propose to mud drill with rotary tools to total depth. Mesaverde and Gallup-Dakota will be completed if productive. Gas from this well is committed.

Estimated formation tops:	Ojo Alamo	1860	Point Lookout	5860'
	Fruitland	3560	Gallup	6860'
	Pictured Cliffs	3660	Greenhorn	7810'
	Lewis	3710	Dakota	7910'
	Cliff House	5360	T.D.	8260'

## \* Three Stage Cement:

- 1st Stage - 250 sacks from 8360' to 6900' to cover Dakota-Gallup
- 2nd Stage - 220 sacks from 6300' to 5200' to cover Point Lookout
- 3rd Stage - 500 sacks from 4000' to 1800' to cover Pictured Cliffs & Ojo Alamo

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 preventer program, if any.

24. SIGNED James D. Routson TITLE Petroleum Engineer DATE April 10, 1981  
(This space for Federal or State office use)

PERMIT NO.

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APPROVAL DATE

APPROVED BY

APR 13 1981

TITLE

U. S. GEOLOGICAL SURVEY  
FARMINGTON, N. M.APPROVED  
AS AMENDED

DATE

E. A. Schmidt  
FOR F. S. S. S.  
DISTRICT ENGINEER  
SUPERVISOR

## OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-107  
Revised 10-1-78

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

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

Operator <b>BEARTOOTH OIL &amp; GAS COMPANY</b>			Lease <b>MINEL-FEDERAL</b>		Well No. <b>1E</b>
Unit Letter <b>M</b>	Section <b>7</b>	Township <b>25N</b>	Range <b>3W</b>	County <b>Rio Arriba</b>	
Actual Footage Location of Well: <b>790</b> feet from the <b>South</b> line and <b>790</b> feet from the <b>West</b> line					
Ground Level Elev: <b>7191</b>	Producing Formation <b>Dakota</b>		Pool <b>Basin Dakota</b>		Dedicated Acreage: <b>308.06</b> Acres

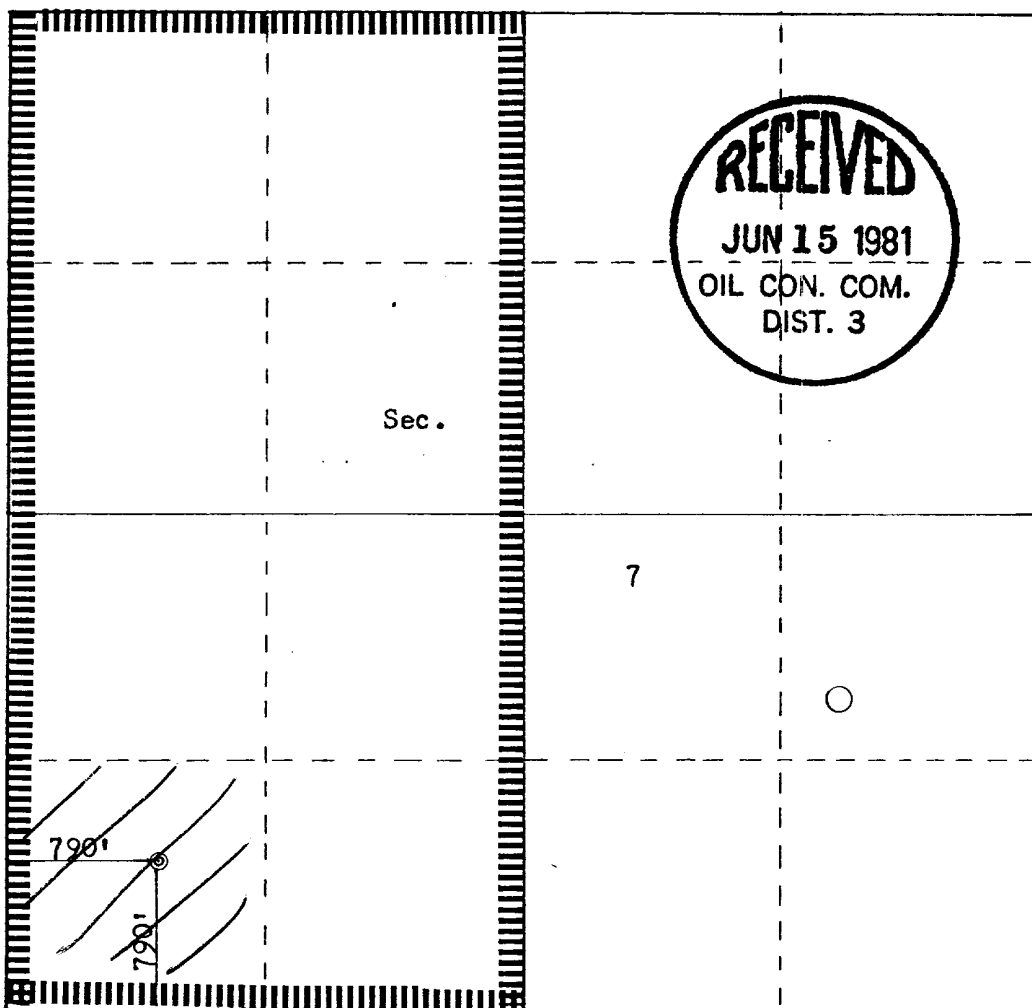
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is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

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 FERTINGTON, N. M.

☐ Yes ☐ No If answer is "yes," type of consolidation \_\_\_\_\_

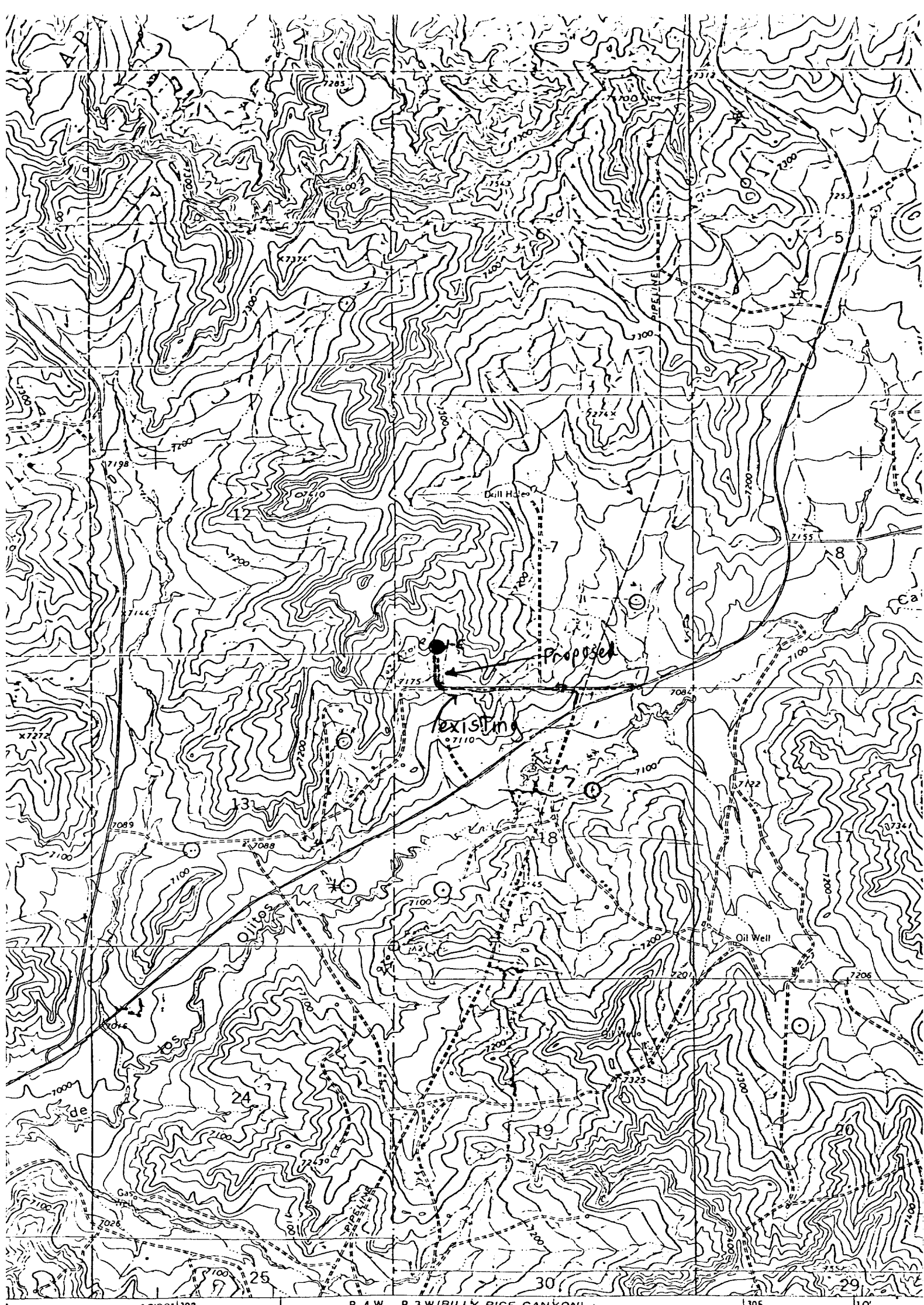
If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

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 Commission.



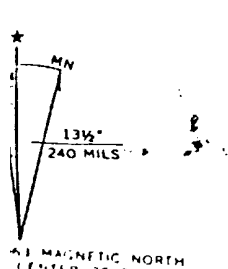
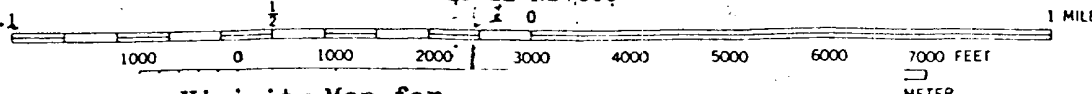
Scale: 1"=1000'

<b>CERTIFICATION</b>	
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
Name	<i>James G. Routson</i> James G. Routson
Position	Petroleum Engineer
Company	Beartooth Oil & Gas Company
Date	April 9, 1981
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 knowledge and belief.	
Date Surveyed	April 11, 1981
Registered Professional Engineer and Land Surveyor <i>Fred B. Kerr Jr.</i> Fred B. Kerr Jr.	
Certificate No.	3950



12°30'1302 R. 4 W. R. 3 W. BILLY RICE CANYON 4556 / SW 1305 110'

SCALE 1:24,000



Vicinity Map for  
BEARTOOTH OIL & GAS COMPANY #1E MINEL-FEDERAL  
790' FSL 790' FWL Sec. 7-T25N-R3W  
RIO ARriba COUNTY, NEW MEXICO

ALL MAGNETIC NORTH  
CENTER OF SHEET