

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

30-039-22855

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

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

b. TYPE OF WELL  
OIL WELL ☐ GAS WELL ☒ OTHER ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. NAME OF OPERATOR  
Beartooth Oil & Gas Company

3. ADDRESS OF OPERATOR  
P. O. Box 2564, Billings, Montana 59103

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
At surface 820' FNL, 900' FWL

At proposed prod. zone same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
12 miles NW of Lindrith

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  
820'

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
200' P.C.

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
7159 GL

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8- 5/8"	24#	200'	200 sacks
6-1/4"	4- 1/2"	11.6#	6300'	300 sacks - 6300-5000'
				600 sacks - 4000-1500' *

(\* 2nd stage to cover Ojo Alamo)

Propose to mud drill with rotary tools to total depth. If production, will run 4 1/2" casing to total depth and cement in two stages as above. Gas from this well is committed.

Estimated Formation Tops: Ojo Alamo 1875' Point Lookout 5875'  
Fruitland 3575' Total Depth 6300'  
Pictured Cliff 3675'  
Lewis 3725'  
Cliff House 5575'



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and propose 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 G. Routson TITLE Petroleum Engineer DATE 10/8/81  
(This space for Federal or State office use)

PERMIT NO.                      APPROVAL DATE                       
APPROVED BY Dean Elliott TITLE For Acting Dist Supervisor DATE NOV 12 1981  
CONDITIONS OF APPROVAL, IF ANY:                     

write NW 1/4

NMOCC

All distances must be from the outer boundaries of the Section

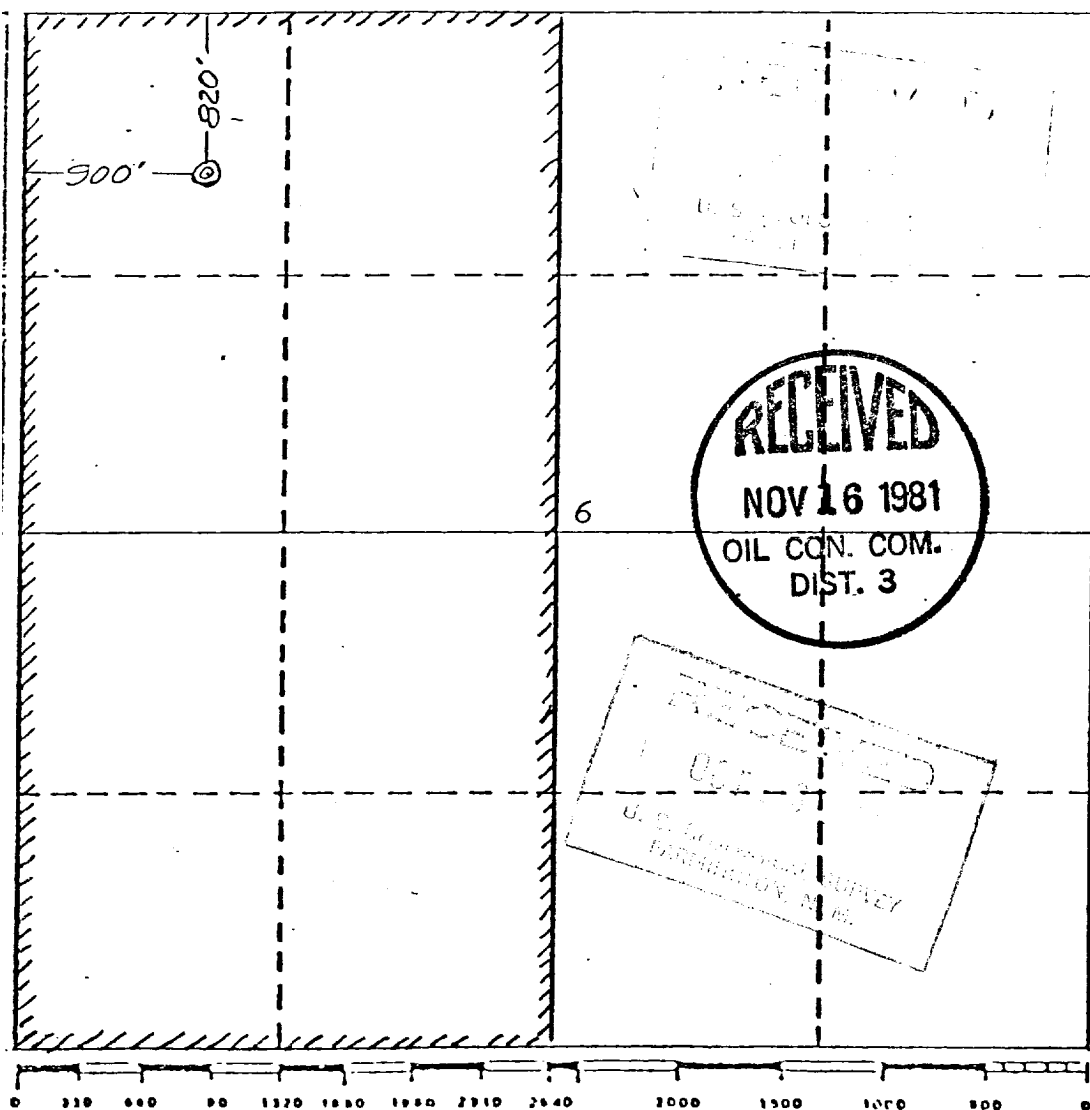
Owner <b>CURTIS LITTLE</b>			Lease <b>MINEL Federal</b>		Well No. <b>3 #2</b>
Unit Letter <b>D</b>	Section <b>6</b>	Township <b>25 NORTH</b>	Range <b>3 WEST</b>	County <b>RIO ARriba</b>	
Actual Footage Location of Wells: 820 feet from the <b>NORTH</b> line and 900 feet from the <b>WEST</b> line					
Ground Level Elev. <b>7159</b>	Producing Formation <b>DAKOTA</b>	Pool <b>BLANCO MESA VERDE -BASIN DAKOTA</b>		Dedicated Acreage <b>340-W 354.75 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 \_\_\_\_\_

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.



#### CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

*Curtis J. Little*  
Name

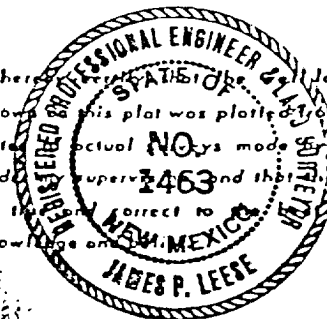
**CURTIS J. LITTLE**

Position  
**OPERATOR**

Company  
**CURTIS J. LITTLE**

Date  
**MAY 12, 1980**

I hereby certify that the location shown on this plat was plotted from field notes and actual NO. 1463 and that some is the correct location of my knowledge and belief.



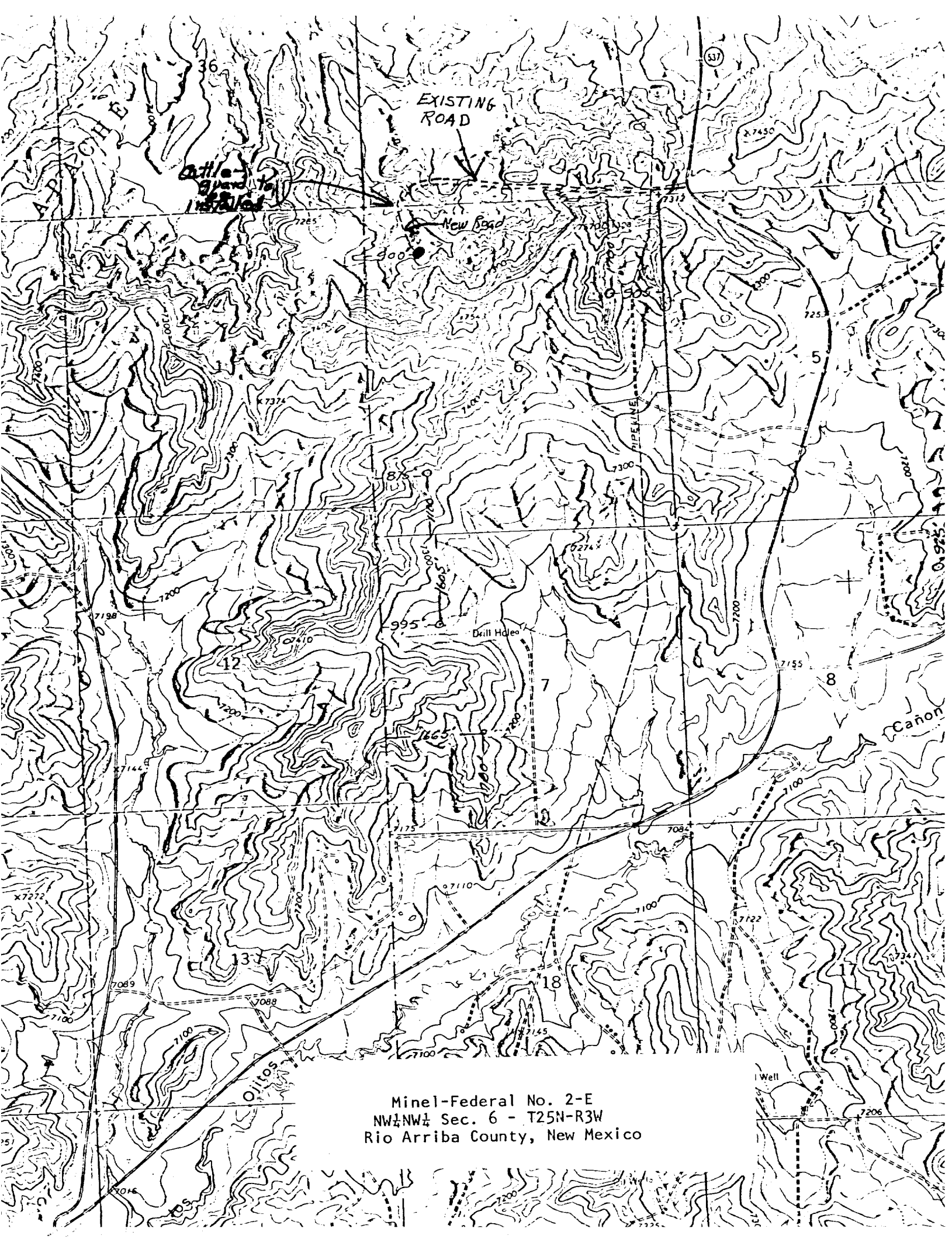
Date Surveyed  
**April 16, 1980**

Registered Professional Engineer and/or Land Surveyor

*James P. Leese*  
**James P. Leese**

Certificate No.

**1463**



EXISTING  
ROAD

Oil - 100 yds. to  
installed

New Road

Drill Hole

Cañon

Well

Minel-Federal No. 2-E  
NW $\frac{1}{4}$ NW $\frac{1}{4}$  Sec. 6 - T25N-R3W  
Rio Arriba County, New Mexico

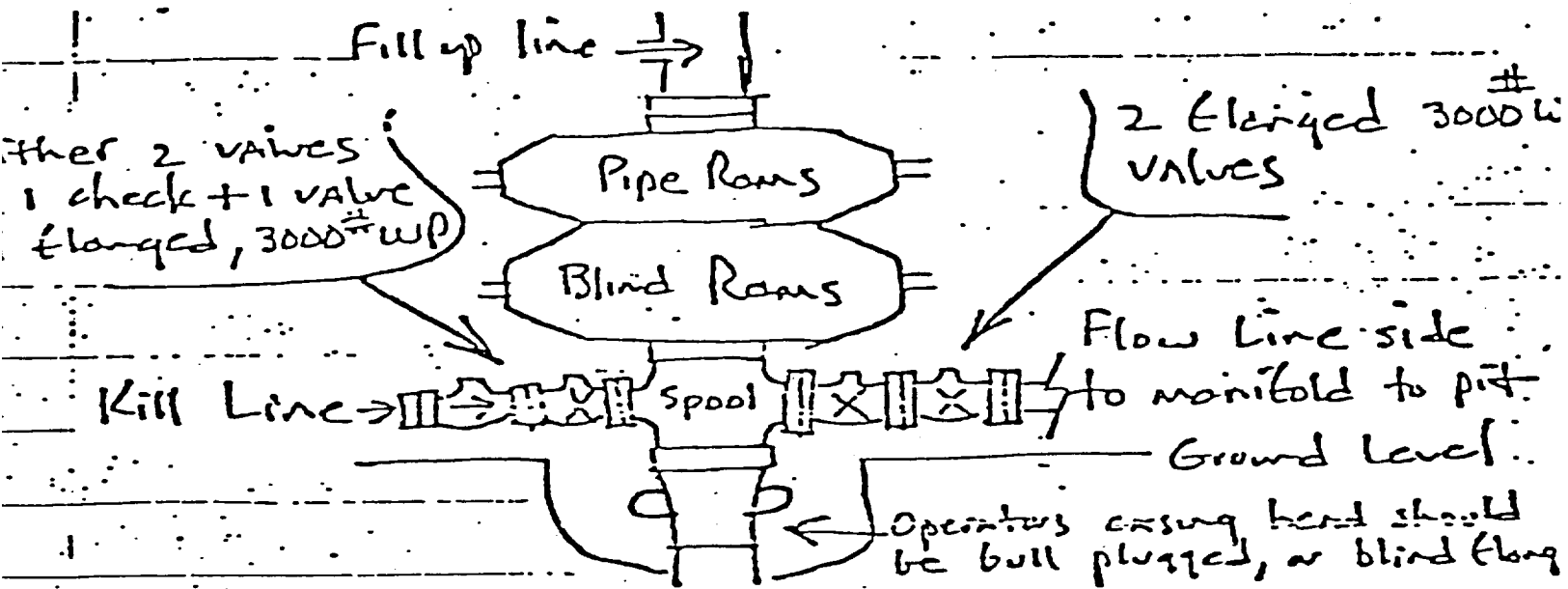
WELL CONTROL PLAN

Minel Federal No. 2-E  
820' FNL, 900' FWL  
NW $\frac{1}{4}$ NW $\frac{1}{4}$  Section 6 - T25N-R3W  
Rio Arriba County, New Mexico

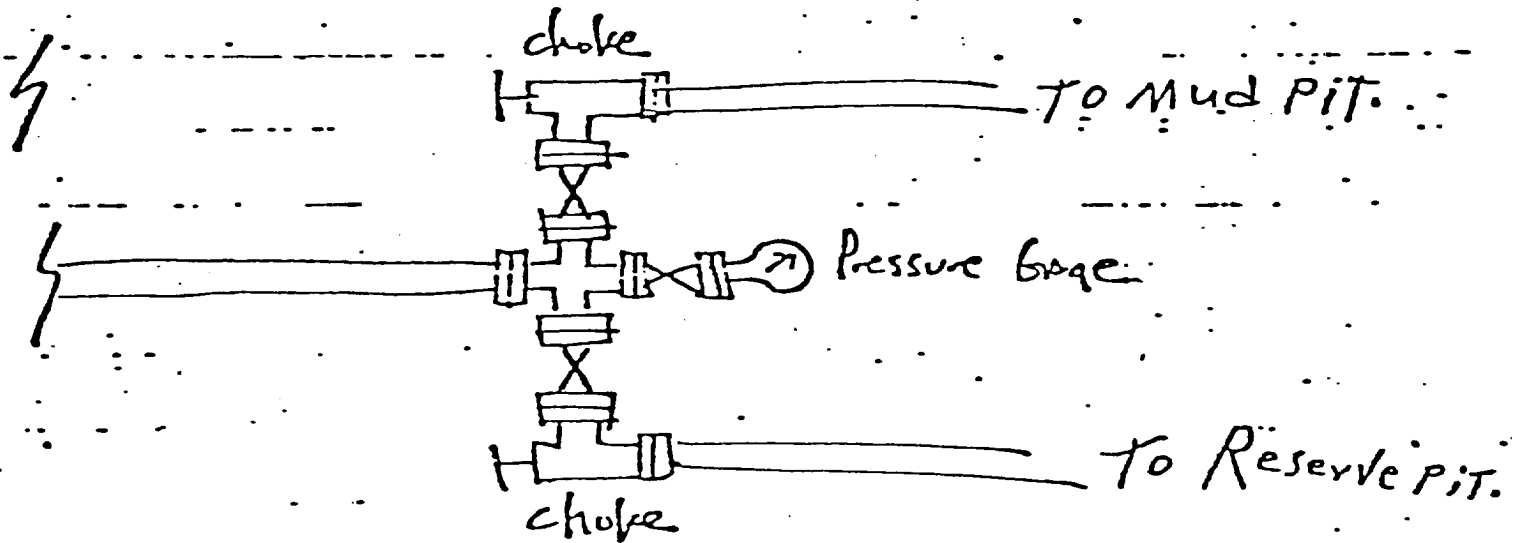
1. Surface Casing: 8-5/8" 24#/ft. set at 200' and cemented with pump and plug method back to surface.
2. Casinghead Flange: 10" series 900, 3000 psi WP equivalent casinghead with two 2" 1500 psi L.P. outlets.
3. Blowout Preventor: a 10" 3000 psi W.P. double gate hydraulic Shaffer BOP (or equivalent) with drill pipe rams and blind rams. All fill, kill and choke lines will be minimum of 2" 2000 psi working pressure. The rams will be closed daily and checked for proper operations.
4. Auxillary Equipment: a) Drill pipe floats will be allowed at contractor's discretion; b) Visual and manual monitoring of mud system will be maintained.
5. Anticipated bottom hole pressure is less than 1600 psi at 6300'. Gradient of .25 psi/ft. 9.0 lb mud program gives 2950 psi hydrostatic head.
6. Well will be drilled with water base mud system with 8.7-9.2 ppg weight 35-45 seconds viscosity to T.D.

  
James G. Routson

# BLOWOUT PREVENTOR EQUIPMENT



Detail Flow Line Side (manifold)  
(All fillings flanged & WP at 3000#)



## PLAN OF DEVELOPMENT

Minel Federal No. 2-E  
820' FNL, 900' FWL  
NW $\frac{1}{4}$ NW $\frac{1}{4}$  Section 6 - T25N-R3W  
Rio Arriba County, New Mexico

1. Existing Roads (see enclosed topo map).
2. Planned access road: will use existing access road approximately 10' in width from pavement to Jicarilla Fence where it is requested to install a cattleguard and construct 900 feet of road to the location, constructed to prevent erosion (see proposed road on topo map).
3. Location of tank battery and production facilities: if this well is productive, it would be gas; therefore, the facilities would be the wellhead, tanks for produced water and condensate, if any, separator and gas line to the well. The tanks and separator would be set within 150' of the well and on location and the gas line would run adjacent and parallel to road.
5. Location and type of water supply: Water will be hauled by truck from private water supply in the area.
6. Source of construction materials: all construction material such as gravel, sand, timbers, etc. will be purchased and hauled to the location. No water, sand or gravel will be used from this land.
7. Methods for handling waste disposal:
  - 1) Cuttings will be buried 3' below the surface.
  - 2) Drilling fluids will be left in a fenced, open pit to evaporate.
  - 3) Produced oil or condensate (if any) will be stored in a tank.
  - 4) Portable toilet to be provided.
  - 5) Trash will be burned in burn pit.
  - 6) After pit area is sufficiently dry, cuttings will be pushed into pit and sub-soil will be placed on any remaining fluid and cuttings, then top soil, if any, will be placed over both pit and location area.
8. Ancillary facilities: No camps or airstrips will be used.
9. Wellsite layout: Top soil, if any, will be stockpiled and reused. Pits will not be lined.
10. Plans for restoration of surface: upon completion of well, all pits will be backfilled and top soil replaced and recontoured back to the original terrain. Pits will be backfilled as soon as they evaporate enough to permit such work. To protect livestock or wild game, pits will be fenced, and maintained until

clean-up operations are commenced. Should oil accumulate on the pit, it will be removed and buried 6' deep or overhead flagging will be employed to protect wildlife.

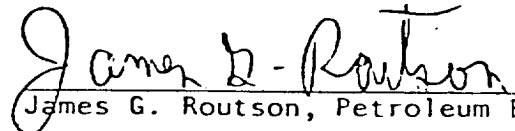
11. Other information:

- 1) Topography - drill site and access low valley profile
  - 2) Vegetation - sparse grass and sagebrush with moderate growth of pinon trees.
  - 3) Land use - land is used for grazing with no reservoir or water on this site.
- There are no known archeological, cultural, or historical sites on the site.

12. Lessee's or Operator's representatives: James G. Routson Home: 406-245-8797  
Office: 406-259-2451

Agent in Farmington: Joe F. Elledge Home: 505-327-9267  
Mobile: 505-325-1873  
Unit 851

13. I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this Plan are, to the best of my knowledge, true and correct; and, that the work associated with the operation proposed herein will be performed by Beartooth Oil & Gas Company and its contractors and subcontractors in conformity with this Plan and the terms and conditions under which it is approved.

  
James G. Routson, Petroleum Engineer

P. O. BOX 1067  
702 E. BROADWAY  
FARMINGTON, NEW MEXICO 87401

Hand-drawn site plan of a Reserve Pit area. The plan shows a large rectangular 'Reserve Pit' on the left. To its right are several smaller rectangular structures: a 'Mud Pit 10' x 5' x 53'', a 'Unit' (12' x 6'), a 'Water Tank & Doghouse' (40' x 4'), and a 'Light Plant / House' (11' x 11'). Dimensions and distances are marked throughout the plan, including a total width of 75' and a total length of 78'. Other labels include 'Pipe Racket', 'Cat Wall 650' 5'', and 'Racks'.



# REHABILITATION PLAN

Lease No.: SF-080565-A ; Well Name and No.: Minel # 2-E ;  
Location: 820' FNB 900' FWH , Sec. 6 , T. 25 N., R. 3 W.

Curtis J. Little Oil Company intends to drill a well on surface owned by Tony Schmitz. The lessee/operator agrees to complete the following rehabilitation work if the well is a producer:

- ☒ Yes ☐ No Maintain access road and provide adequate drainage to road.  
☒ Yes ☐ No Reshape and reseed any area not needed for maintenance of the pump and support facilities.

Other requirements: USE MY SEED

The following work will be completed when the well is abandoned:

- ☒ Yes ☐ No Pit will be fenced until dry, then filled to conform to surrounding topography.  
☒ Yes ☐ No Water bars will be constructed as deemed necessary.  
☒ Yes ☐ No Site will require reshaping to conform to surrounding topography.  
☒ Yes ☐ No Entire disturbed area will be reseeded. If yes, the following seed mixture will be used:  
USE MY SEED  
☒ Yes ☐ No Access road will be closed, rehabilitated and reseeded using the same seed mixture as above.  
☐ Yes ☐ No Access road will remain for surface owner's use.  
☒ Yes ☐ No Water bars will be constructed on the access road as deemed necessary.

Other requirements: \_\_\_\_\_

## Surface Owner:

Name: Tony Schmitz  
Address: Lindroeth  
City: "  
State: New Mexico  
Telephone: 774-6663  
Date: 5-20-80

## Operator/Lessee

Name: (Curtis J. Little)  
Address: Box 2567  
City: Albuquerque, N.M. 87101  
State: "  
Telephone: 505-842-6176  
Date: 5-20-80

I CERTIFY rehabilitation has been discussed with me, the surface owner:

Tony Schmitz  
(Surface owner's signature)

This plan covers rehabilitation requirements only and does not affect any other agreements between the lessee/operator and surface owner.