

UNITED STATES  
DEPARTMENT OF THE INTERIOR

## GEOLOGICAL SURVEY

## 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

Northern Minerals, Inc.

## 3. ADDRESS OF OPERATOR

P. O. Box 2182, Santa Fe, New Mexico 87501

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)

At surface

990' FEL and 990' FNL of Section 24.  
At proposed prod. zone

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

11 miles southwest of Hospah, New Mexico

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

330'

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

40'

## 16. NO. OF ACRES IN LEASE

320

## 19. PROPOSED DEPTH

1850'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

## 20. ROTARY OR CABLE TOOLS

Rotary

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

7155' G. L.

## 22. APPROX. DATE WORK WILL START\*

Upon Approval

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8-5/8"	7"	20 lb.	60'	Suff. to Circulate
6-1/4"	4-1/2"	9 lb.	1850'	Suff. to cover 500' above Hospah sand.

This well will be an 1850' Dakota "A" sand development well. 6 1/4" hole will be drilled. Cores will be taken of the Hospah and Dakota "A" sands. If commercial production of oil or gas is indicated, casing will be run and the well treated as necessary to establish production.

This well is located 927' southwest of No. 1 Marcelina, Dakota "A" sand producing well 330' FNL and 330' FEL of Section 24, and is 40' west of Northern Minerals No. 4 Marcelina location applied for at 990' FNL and 950' FEL of Section 24. ~~This well will be a Hospah sand well.~~

RECEIVED

OCT 1 1975

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

Lloyd Davidson

TITLE

President

DATE

9-29-75

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

OK'd

**NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102  
Supersedes C-128  
Effective 1-1-65

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

Operator <b>NORTHERN MINERALS</b>			Lease <b>Marcelina</b>		Well No. <b>#3</b>
Unit Letter <b>A</b>	Section <b>24</b>	Township <b>16 North</b>	Range <b>10 West</b>	County <b>McKinley</b>	
Actual Footage Location of Well: <b>990</b> feet from the <b>North</b> line and <b>990</b> feet from the <b>East</b> line					
Ground Level Elev. <b>7155</b>	Producing Formation <b>Dakota "A" Sand</b>		Pool <i>Includes</i> <b>Unnamed Dakota</b>		Dedicated Acreage: <b>40</b> <i>(joint)</i> 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?

☐ 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.

**CERTIFICATION**

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

*Lloyd Davidson*  
Name  
**Lloyd Davidson**

Position  
**President**

Company  
**Northern Minerals, Inc.**

Date  
**9-30-75**

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  
**Sept. 25, 1975**

Registered Professional Engineer and/or Land Surveyor  
*Fred D. Tamm*

Certificate No.  
**2031**

## DEVELOPMENT PLAN FOR SURFACE USE

To be attached to Application to Drill a test well for oil or gas to be located 330' FNL and 330' FEL section 24, T16N-R10W, McKinley County, New Mexico. The Federal lease number is NM 12201. The well is to be known as Northern Minerals, Inc., No. 3 Marcelina.

This well will be drilled by a light-weight, truck-mounted Failing 1500 type rig.

1. Existing roads including location of the exit from the main highway.

Accompanying this statement is a copy of USGS topographic map, herein called Map 1. The locatable reference point is the Albers Ranch Headquarters, approximately  $11\frac{1}{2}$  miles southwest of Hospah, New Mexico, on the Borrego Pass - Hospah road. This is the main access road and is shown on the map. The point of exit from this road is  $\frac{1}{2}$  mile northeast of the Albers Headquarters and is indicated on this map. A red line shows the direction to the well location. Also shown on the map are all existing roads within a three mile radius.

2. Planned access roads.

No new road construction is contemplated. If necessary, some low places in the vicinity of the well may have to be graded.

3. Location of existing wells.

Map 1 shows the location of the proposed well and all wells within a two mile radius.

4. Lateral roads to well location.

Covered in reply to (1) above.

5. Location of tank batteries and flow lines.

The tank battery will be located some 50 feet northeast of the well and is shown on Map 2. Also shown is flow line from well to tanks.

6. Location and Type of Water.

Water for drilling operations will be taken from the Tesoro Petroleum pond at Hospah. Trucks will haul water to the well. No water lines will be needed.

7. Methods for Handling Waste Disposal.

Upon completion of the well, all waste material will be placed in the pit, covered over and buried. See map 2.

8. Location of Camps.

There will be no camp. Crews will travel daily back and forth to Grants, New Mexico.

9. Location of Airstrips.

No airstrip will be constructed.

10. Location of Layout to Include Position of the Rig, Mud Tanks, Reserve Pits, Burn Pits, Pipe Rack, etc.

See map 2. The topography in the immediate vicinity of the well is flat. The drilling pad will not be compacted or surfaced.

11. Plans for Restoration of the Surface.

Upon completion of operations, the surface will be cleared of all junk, leveled and re-seeded.

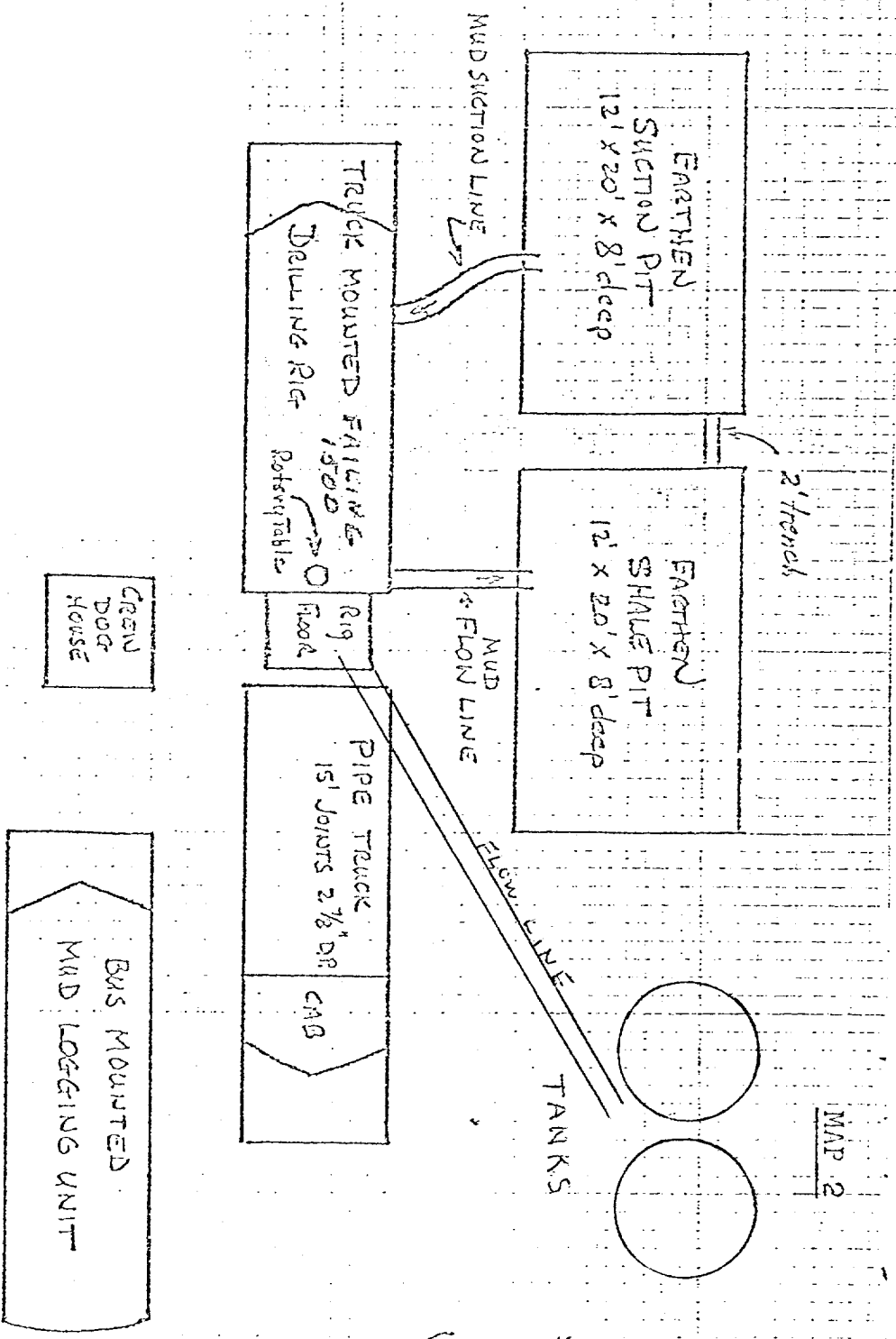
12. Other Information.

The topography of the general area is gently rolling. There is some grass but very little other vegetation. No cut and fill will be needed.

Northern Minerals, Inc.

By: Lloyd Davidson  
Lloyd Davidson, President

↑ N



MAP 2

SCALE 1" = 10'