Form 9-331C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

30-031-20461

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [X] 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: 360' FEL and 360' FNL of Section 24.
At proposed prod. zone:

5. LEASE DESIGNATION AND SERIAL NO.: NM 12201

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Marcelina

9. WELL NO.: 2

10. FIELD AND POOL, OR WILDCAT: Wildcat Gallup

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 24, T16N, R10W, NMPM

12. COUNTY OR PARISH: McKinley

13. STATE: New Mexico

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): 360'

16. NO. OF ACRES IN LEASE: 320

17. NO. OF ACRES ASSIGNED TO THIS WELL: 40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: 42'

19. PROPOSED DEPTH: 875'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 7163' G. L.

22. APPROX. DATE WORK WILL START*: Upon Approval

RECEIVED OCT 2 1975 U.S. GEOL. SURV. FARM. DIST. 3

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.	30'	Suff. to Circulate
6-1/4"	4½"	9 lb.	875'	Suff. to cover 500' above Hospah sand.

This will be an 875' Hospah sand wildcat to test shows of oil indicated during drilling of No. 1 Marcelina 330' FNL and 330' FEL of Section 24. This well was completed as a producer from the Dakota "A" sand at about 1750'. Cores will be taken of the Hospah and logs run. If commercial production of oil or gas is indicated, casing will be run and the well treated as necessary to establish production.

OCT 1 1975

U. S. GEOLOGICAL SURVEY

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:

Okal

*See Instructions On Reverse Side

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	Lease	Well No.
Northern Minerals	Marcelina	#2

Unit Letter	Section	Township	Range	County
A	24	16 North	10 West	McKinley

Actual Footage Location of Well: 360 feet from the North line and 360 feet from the East line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
7163	~~Wildcat~~ Gallup	WILDCAT	40 Acres (Joint)

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).

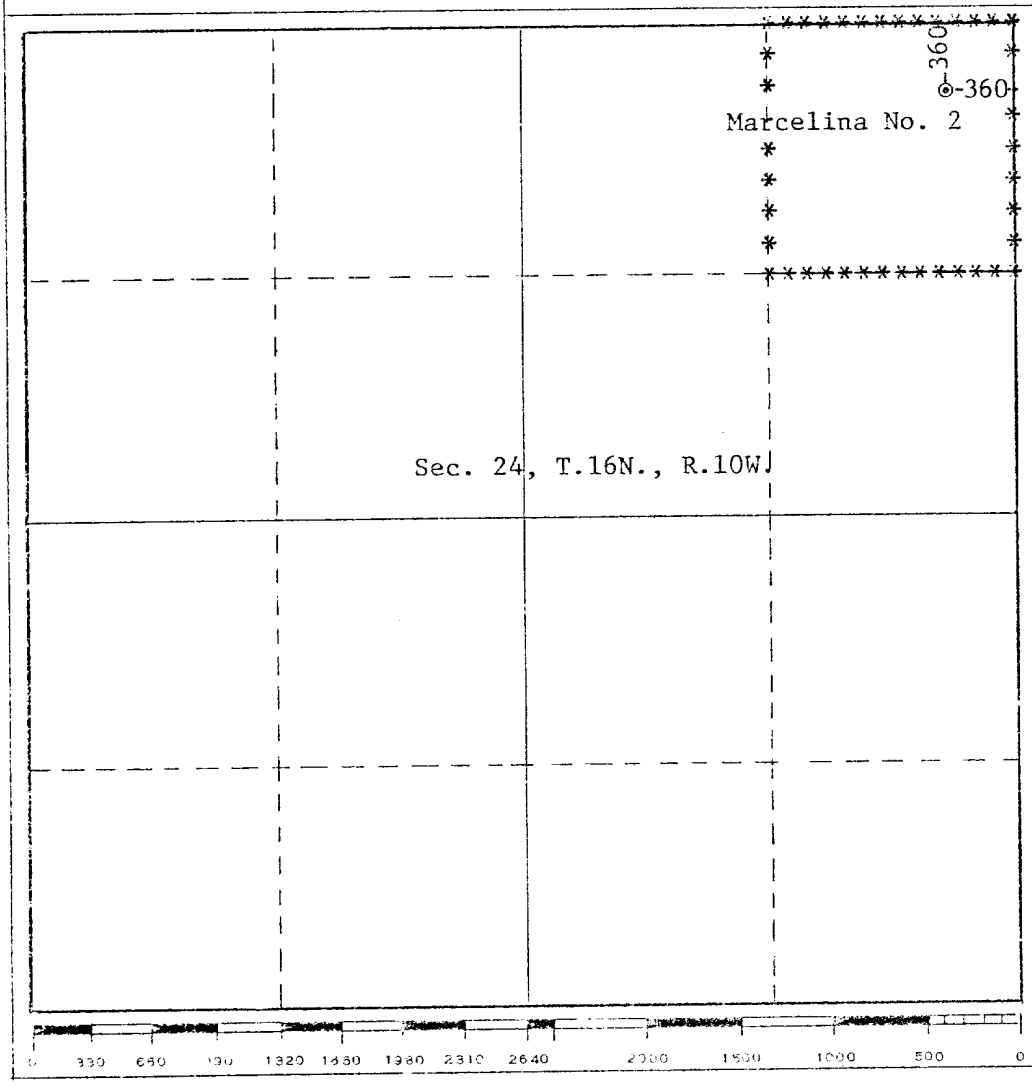
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc?

☐ 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.

RECEIVED OCT 2 1975 OIL CONS. COM. DIST. 3



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 B. Kerr

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. 2 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 11½ 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 ½ 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.

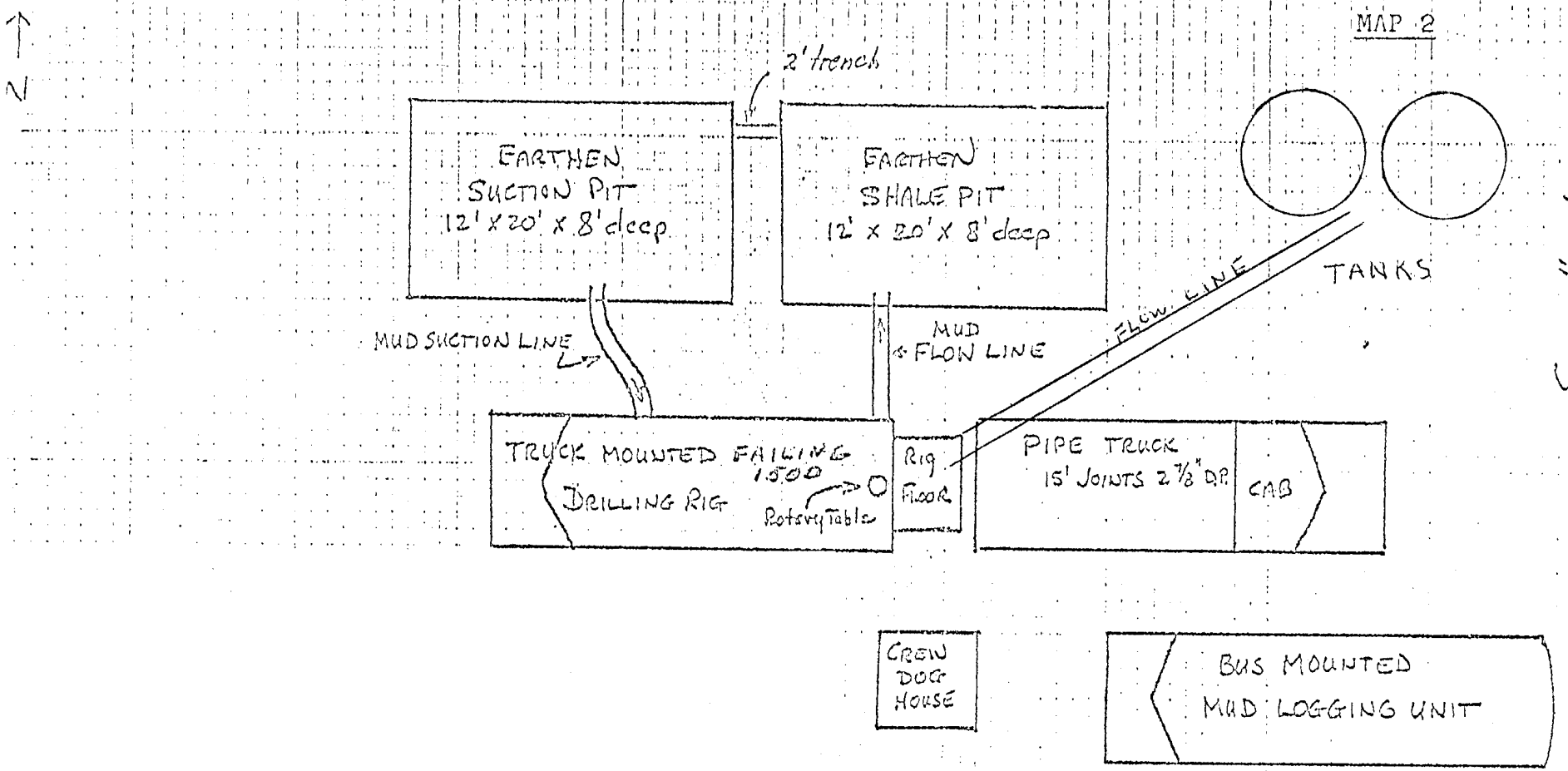
12. Other Information.

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

MAP 2


N
2' trench
EARTHEN
SUCTION PIT
12' x 20' x 8' deep
EARTHEN
SHALE PIT
12' x 20' x 8' deep
TANKS
FLOW LINE
MUD SUCTION LINE
MUD
FLOW LINE
TRUCK MOUNTED FAILING 1500
DRILLING RIG
Rotary Table
Rig
Floor
PIPE TRUCK
15' JOINTS 2 7/8" D.P.
CAB
SCALE 1" = 10'

CREW
DOG
HOUSE
BUS MOUNTED
MUD LOGGING UNIT

F Oct. 2, 1975 30-031-20461

F. Loc. 360/N; 360/E Elev. 7153 GL Spd. _____ Comp. _____ TD _____ PB _____

Casing S. _____ @ _____ W _____ Sx. Int. _____ @ _____ W _____ Sx. Pr. _____ @ _____ W _____ Sx. T. _____ @ _____
Csg. Perf. Prod. Stim.

I.P. _____ BO/D MCF/D After _____ Hrs. SICP _____ PSI After _____ Days GOR _____ Grav. _____ 1st Del. _____ $ _____ TRANS

TOPS		NITD X	Well Log	TEST DATA						
Kirtland		C-103	Plat X	Schd.	PC	Q	PW	PD	D	Ref. No.
Fruitland		C-104	Electric Log							
Pictured Cliffs			C-122							
Cliff House		Ditr	Dfa							
Menefee		Datr	Dac							
Point Lookout										
Mancos										
Gallup										
Sanostee										
Greenhorn										
Dakota										
Morrison										
Entrada										

Joint 10

Pool W/C Gal Co. McKinley Sec. 29 T15N R10W U.L. Oper. Northern Minerals, Inc. Lse. Marcelina No. 2

Marcelina #2

Submit 5 Copies
Appropriate District Office
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-104
Revised 1-1-89
See Instructions
at Bottom of Page

REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

I.

Operator: NERDLIHC COMPANY, INC.	Well API No.
Address: 337 E. SAN ANTONIO DRIVE, LONG BEACH, CALIFORNIA 90807	

Reason(s) for Filing *(Check proper box)*: New Well [ ] Recompletion [ ] Change in Operator [XX]

Change in Transporter of: Oil [ ] Dry Gas [ ] Casinghead Gas [ ] Condensate [ ]

Other *(Please explain)* [ ]

If change of operator give name and address of previous operator: DEVCON OPERATIONS COMPANY, INC., 1801 BROADWAY, STE. 600, DENVER, CO 80202

II. DESCRIPTION OF WELL AND LEASE

Lease Name	Well No.	Pool Name, Including Formation	Kind of Lease State, Federal or Fee	Lease No.
Marcelina	5	Marcelina/Dakota		NM-12201

Location: Unit Letter A : 990 Feet From The N Line and 330 Feet From The E Line

Section 24 Township 16N Range 10W, NMPM, McKinley County

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil [XX] or Condensate [ ]: PERMIAN CORPORATION	Address *(Give address to which approved copy of this form is to be sent)*: P. O. BOX 11831, HOUSTON, TX 77001
Name of Authorized Transporter of Casinghead Gas [ ] or Dry Gas [ ]: NONE	Address *(Give address to which approved copy of this form is to be sent)*:

If well produces oil or liquids, give location of tanks.	Unit	Sec.	Twp.	Rge.	Is gas actually connected?	When ?
	A	24	16N	10W	NO	

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v

Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.
Elevations *(DF, RKB, RT, GR, etc.)*	Name of Producing Formation	Top Oil/Gas Pay	Tubing Depth
Perforations			Depth Casing Shoe

TUBING, CASING AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT

V. TEST DATA AND REQUEST FOR ALLOWABLE

OIL WELL *(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)*

Date First New Oil Run To Tank	Date of Test	Producing Method *(Flow, pump, gas lift, etc.)*	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas- MCF

RECEIVED
JUN 4 1990
OIL CON. DIV.
DIST. 3

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method *(pitot, back pr.)*	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

NERDLIHC COMPANY, INC.

By: Tom E. Knowlton
Signature

TOM E. KNOWLTON — PRESIDENT
Printed Name — Title

6/5/90 — (213)422-1271
Date — Telephone No.

OIL CONSERVATION DIVISION

Date Approved JUN 22 1990

By Bill Sheng

Title SUPERVISOR DISTRICT #3

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
2) All sections of this form must be filled out for allowable on new and recompleted wells.
3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.