

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

Benson Mineral Group, Inc.

## 3. ADDRESS OF OPERATOR

3200 Anaconda Tower, 555 17th St., Denver, CO 80202

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

At surface

800' FNL &amp; 1475' FEL Section 20-T22N-R6W

At proposed prod. zone  
Same

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

6 miles southwest of Counselor, New Mexico

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

800'

## 18. DISTANCE FROM PROPOSED LOCATION\*

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

4000'

## 16. NO. OF ACRES IN LEASE

640

## 19. PROPOSED DEPTH

2065

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

160

## 20. ROTARY OR CABLE TOOLS

Rotary

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

7003 GR

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

As soon as permitted

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
9-5/8	7" used	23	100	50 sx. circ.
6 1/4"	4 1/2" new	9.5	2065	215 sx. circ.

The above well is being drilled to evaluate the Chacra formation. Completion intervals and stimulation program will be determined from the study of logs. This acreage is not dedicated to a gas purchaser. Additional information required by NTL-6 for the application to drill and a Multi-Point Surface Use Plan are attached.

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

  
Paul C. Ellison

TITLE

Production Manager

DATE

9-28-78

(This space for Federal or State office use)

PERMIT NO.

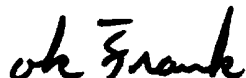
APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



\*See Instructions On Reverse Side

U. S. GEOLOGICAL SURVEY  
DENVER, COLO.

RECEIVED

OCT 2 1978

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.

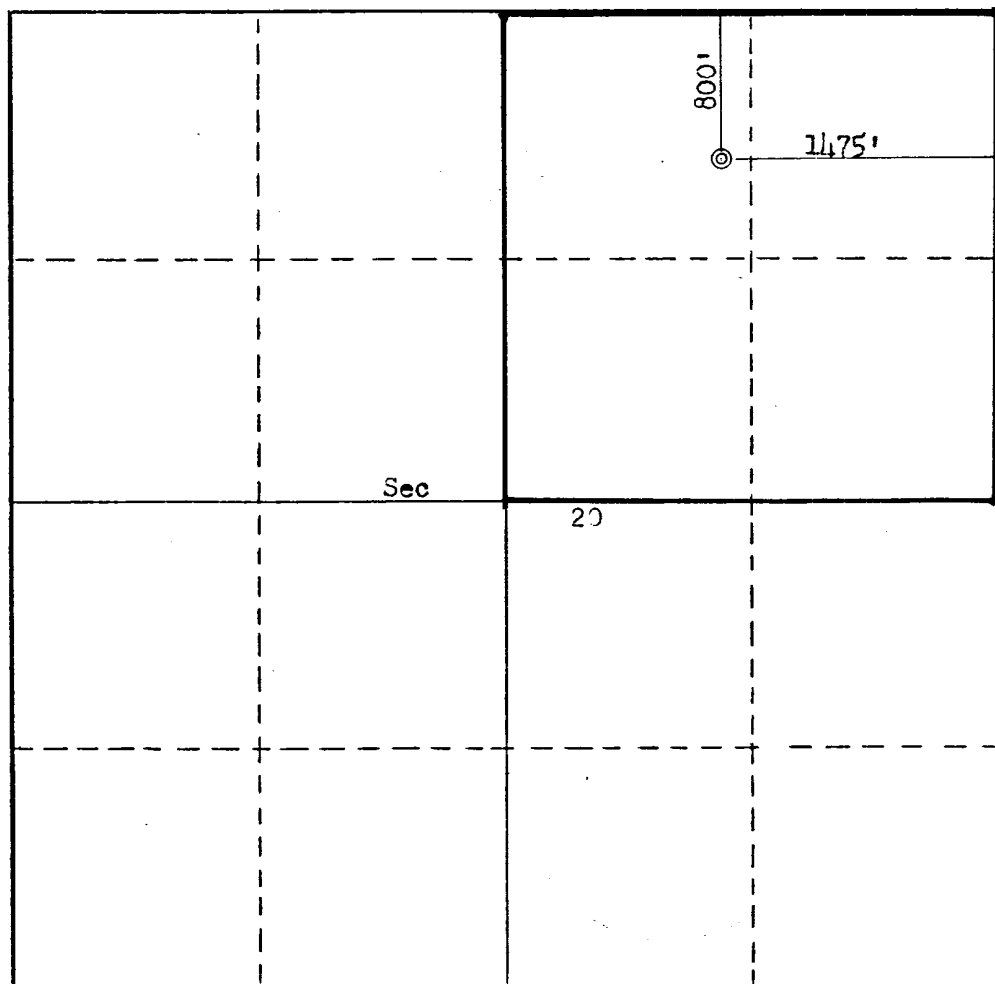
Operator <b>BENSON MINERAL GROUP, INC.</b>			Lease <b>FEDERAL 20-22-6</b>		Well No. <b>2</b>
Unit Letter <b>B</b>	Section <b>20</b>	Township <b>22N</b>	Range <b>6W</b>	County <b>SANDOVAL</b>	
Actual Footage Location of Well: <b>800</b> feet from the <b>North</b> line and <b>1475</b> feet from the <b>East</b> line					
Ground Level Elev. <b>7003</b>	Producing Formation <b>Chacra</b>	Pool <b>Wildcat</b>	Dedicated Acreage: <b>160</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?

☐ 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.

*Paul C. Ellison*

Name

**Paul C. Ellison**

Position

**Production Manager**

Company

**Benson Mineral Group, Inc**

Date

**September 28, 1978**

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

**September 28, 1978**

Registered Professional Engineer and/or Land Surveyor

*Fred B. Kopp Jr.*

Certificate No.

**3950**

SUPPLEMENTAL INFORMATION TO FORM 9-331C  
REQUIRED BY NTL-6

Federal 20-22-6 Well #2  
800' FNL & 1475' FEL Section 20-T22N-R6W  
Sandoval County, New Mexico

The geologic name of the surface formation is: Tertiary Nacimientos

The estimated tops of important geological formations bearing hydrocarbons to be drilled are:

<u>Formation</u>	<u>Depth</u>	<u>Elevation</u>
Chacra	1888	+5115
Total Depth	2065	

Estimated K.B. elevation: 7003 GR

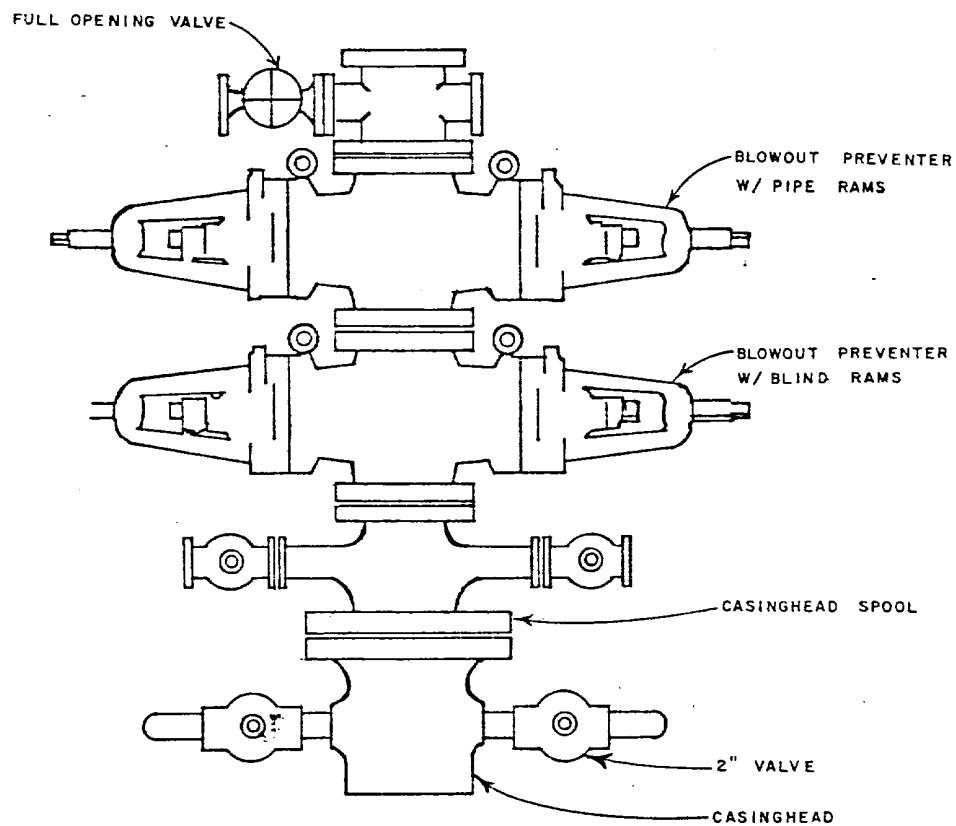
<u>Estimated Depth</u>	<u>Casing Size</u>	<u>Casing Weight</u>	<u>Hole Size</u>	<u>Sacks Cement</u>	<u>Type</u>
100	7" Used	23	9 5/8"	50	Class "B" 2% CaCl <sub>2</sub>
2065	4½" New	9.5	6¼"	50 165	Class "B" Class "B" 50-50 Poz mix, 6% gel with ¼# Celloflake/sack

Benson Mineral Group Inc.'s standard blowout prevention will be employed, see the attached drawing of the preventor design.

Drilling fluid to be a low solids non-dispersed mud system.

The logging program will be as follows: Induction-Electric and Compensated Density-Gamma Ray from surface casing point to total depth.

Past experience in this area has shown that no abnormal pressures, temperatures, or hydrogen sulfide gas will be encountered.



**BENSON  
MINERAL  
GROUP, INC.**

3200 Anaconda Tower  
555 17th Street  
Denver, Colorado 80202

STANDARD BLOWOUT PREVENTER  
ASSEMBLY  
6" 900 SERIES

GEOLOGY BY:

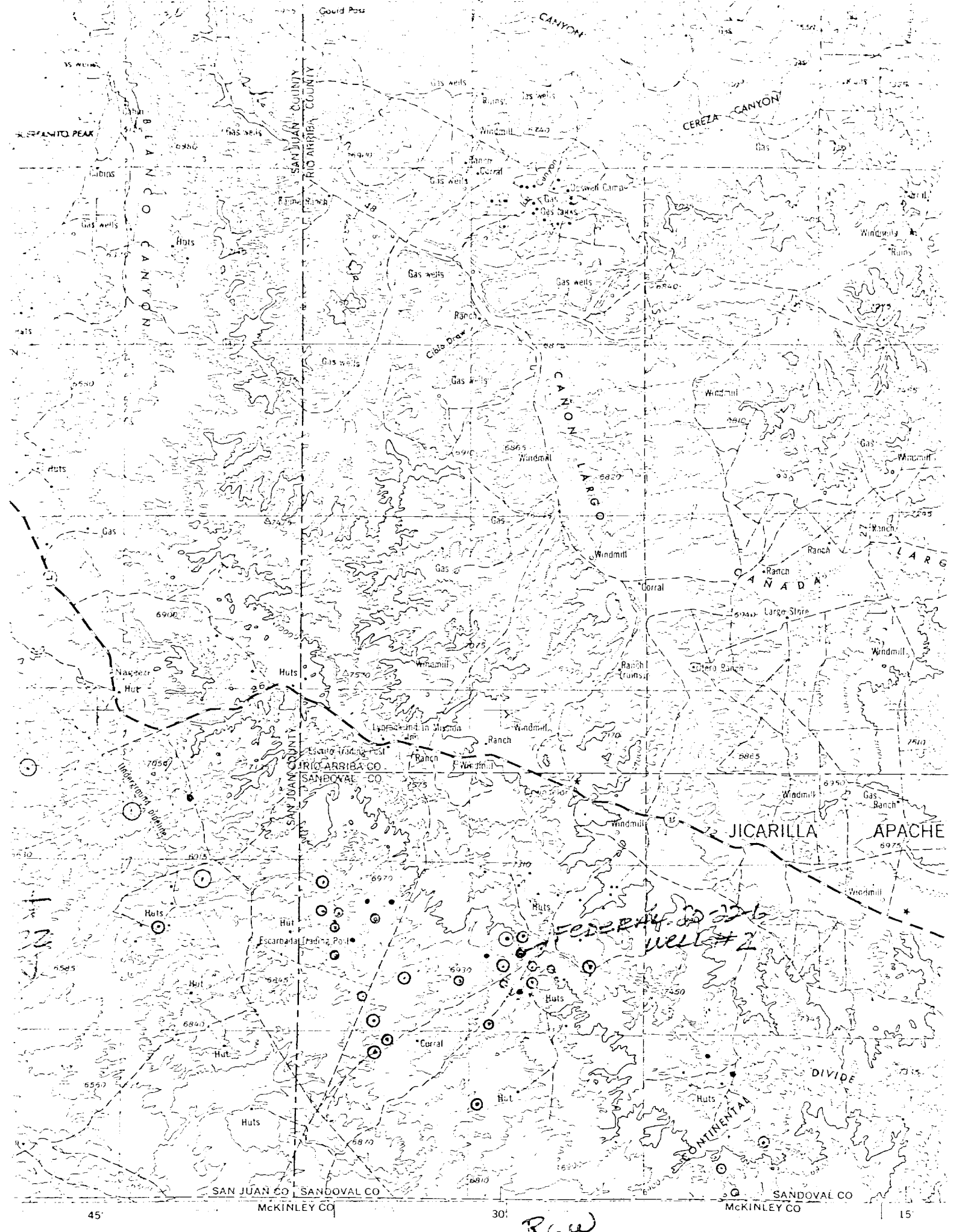
DATE:

POSTED:

APPROVED BY:

DRAFTING BY:

G W R



**LEGEND**

**ROAD DATA 1960**

Figures in red denote approximate distances in miles between stars

**POPULATED PLACES**

Over 500,000	<b>LOS ANGELES</b>
100,000 to 500,000	<b>OMAHA</b>
25,000 to 100,000	<b>GALVESTON</b>
5,000 to 25,000	Laramie
1,000 to 5,000	Grand Coulee
Less than 1,000	Sun Valley

**RAILROADS**

Standard gauge	Single track
Narrow gauge	Double or Multiple

**BOUNDARIES**

International	State
County	Block
Block	Block

**ROADS**

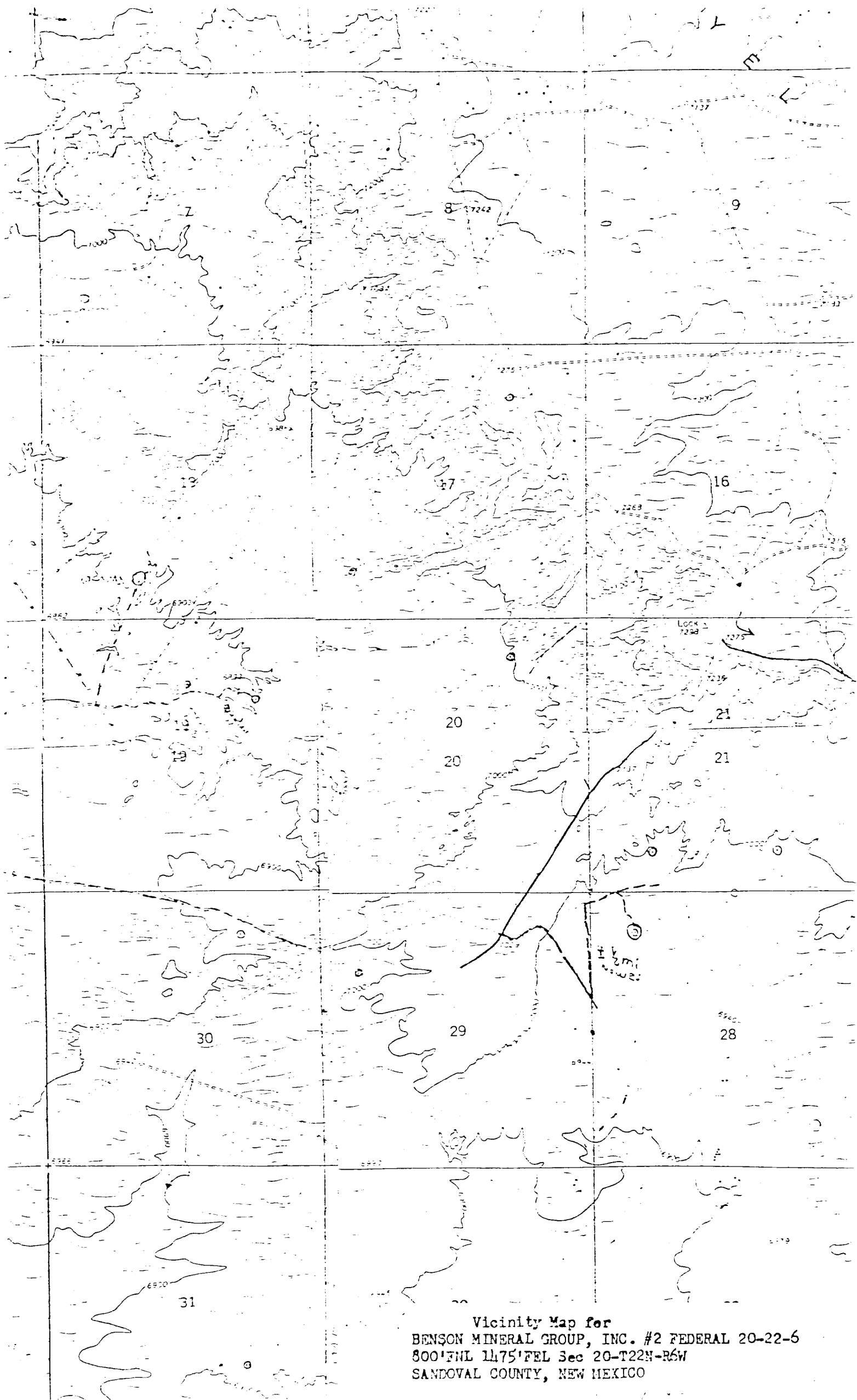
Hard surface, heavy duty	More than two lanes wide
Hard surface, medium duty	More than two lanes wide
Improved light duty	Unimproved dirt
Trail	

**RAILROADS**

Landplane airport	Landing area
Seaplane airport	Seaplane anchorage
Wrecked or unusable	

**LANDMARKS**

Landmarks: School, Church, Other	Horizontal control point
Spot elevation in feet	Marsh or swamp
Intermittent or dry stream	Power line

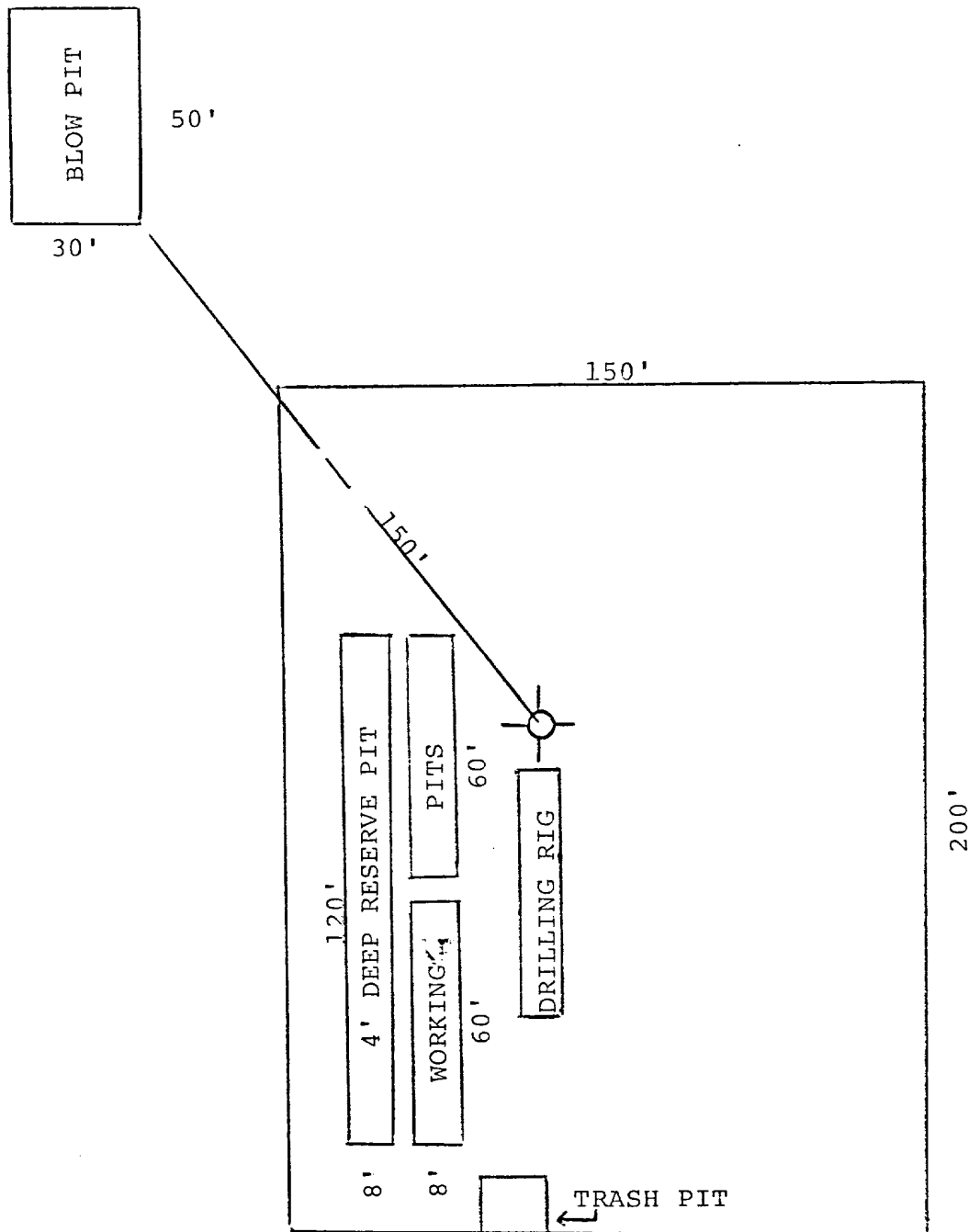


Vicinity Map for  
BENSON MINERAL GROUP, INC. #2 FEDERAL 20-22-6  
800'E 1175'FEL Sec 20-T22N-R6W  
SANDOVAL COUNTY, NEW MEXICO

MULTI-POINT SURFACE USE PLAN

Federal 20-22-6 Well #2  
800' FNL & 1475' FEL Section 20-T22N-R6W  
Sandoval County, New Mexico

1. The attached road map and sketch show the proposed route to the location and distances from towns.
2. An access road of 3/4 mile will be constructed as a new permanent road to location.
3. Existing oil and gas wells within a one-mile radius of our proposed well have been spotted on the vicinity map.
4. There are no storage tanks or facilities located within a one-mile radius of our proposed location.
5. Water will be hauled by truck from various existing private water sources over existing permanent roads.
6. No construction materials will be hauled in for this location. Material from high points on location will be used to level location for proper drilling.
7. A 20' X 120' pit will be built on location to hold all drilling waste. Upon completion of well, all waste and liquid will be hauled by truck and bladed into existing roads. All other waste will be covered in 20' X 120' reserve pit.
8. There are neither airstrips nor camps in the vicinity.
9. The well site layout, reserve, burn and trash pits are shown on the attached Drill Site Specification Sheet.
10. Restoration of the surface will be accomplished by cleaning up and leveling upon completion of the well. Upon completion the reserve pit will be fenced and the drilling mud allowed to dry. The pits will then be back filled and seeded. Reseeding of the site will be carried out as detailed by the Surface Management Agency at the site examination.
11. The general topography and soil characteristics consist of fairly level terrain with vegetation of sagebrush and a few small pinion trees.  
  
Representatives of the U.S. Geological Survey's Durango Office and Bureau of Land Management's Farmington Office will inspect the site. Cultural resources inspection will be conducted by an archaeologist from San Juan College or Salmon Ruins.
12. A Certification Statement by Benson Mineral Group, Inc.'s Representative is included.



**BENSON  
MINERAL  
GROUP, INC.**

3200 Anaconda Tower  
555 17th Street  
Denver, Colorado 80202

PROPOSED LOCATION  
DIAGRAM

GEOLOGY BY:	DATE:	POSTED:	APPROVED BY:	DRAFTING BY:
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Federal 20-22-6 Well #2  
800' FNL & 1475' FEL Section 20-T22N-R6W  
Sandoval County, New Mexico

CERTIFICATION

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 operations proposed herein will be performed by BENSON MINERAL GROUP, INC. and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

September 28, 1978

Date



Paul C. Ellison

Production Manager

Benson Mineral Group Inc.'s Representative:

Paul C. Ellison

Phone: Office: 303-893-0883; Home: 303-979-9021

Address: 3200 Anaconda Tower

555 17th Street

Denver, Colorado 80202