

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
F 1545' FNL & 1730' FWL Section 17-T22N-R7W
At proposed prod. zone
Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
10 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)
1545'

16. NO. OF ACRES IN LEASE
160

17. NO. OF ACRES ASSIGNED TO THIS WELL
160

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
None

19. PROPOSED DEPTH
1645

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
6770 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 1/2"	4 1/2" new	9.5	1645	175 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:

ok Frank

*See Instructions On Reverse Side

U. S. GEOLOGICAL SURVEY
DURANGO, 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.

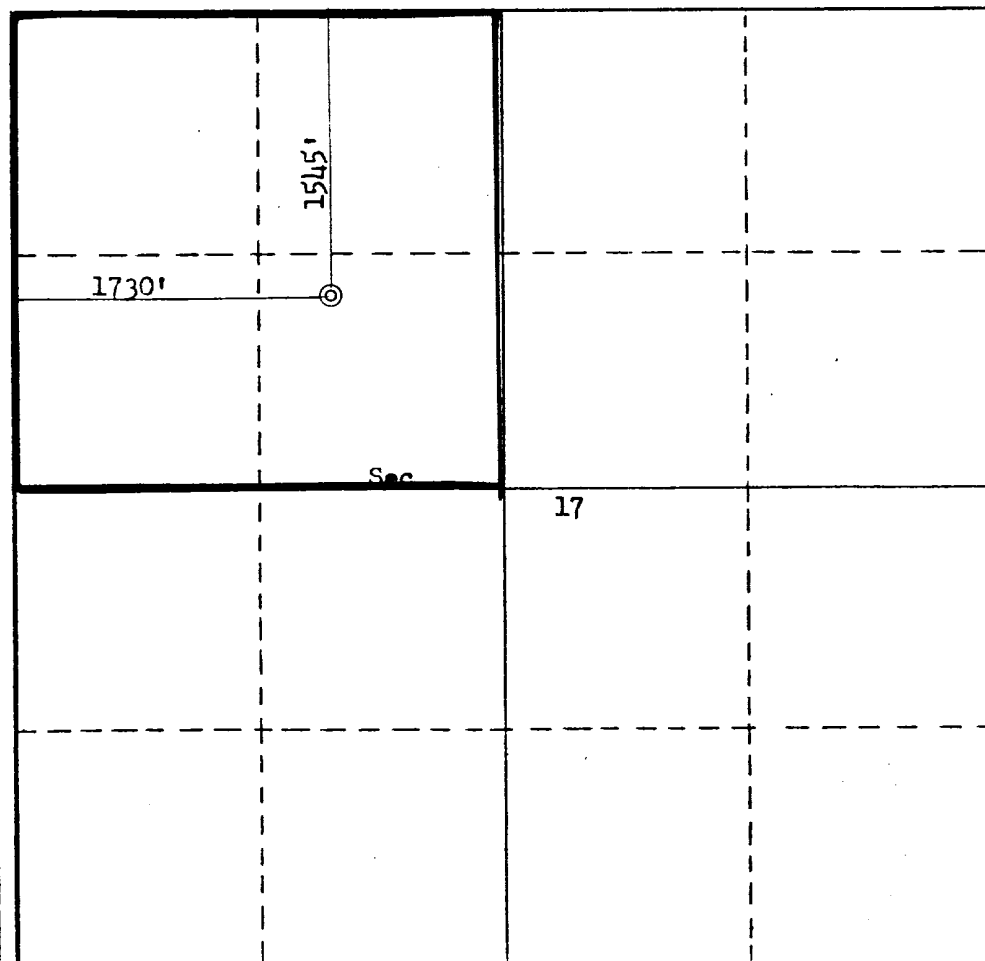
Operator BENSON MINERAL GROUP, INC.			Lease NAVAJO 17-22-7		Well No. 2
Unit Letter F	Section 17	Township 22N	Range 7W	County Sandoval	
Actual Footage Location of Well: 1545 feet from the North line and 1730 feet from the West line					
Ground Level Elev. 6770	Producing Formation Chacra		Pool Wildcat Rusty Chacra	Dedicated Acreage: 160 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

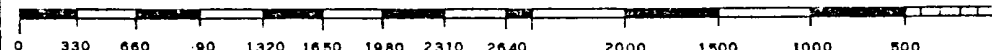
Registered Professional Engineer and/or Land Surveyor

Fred B. Kerr Jr.

Fred B. Kerr Jr.

Certificate No.

3950



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

Navajo 17-22-7 Well #2
1545' FNL & 1730' FWL Section 17-T22N-R7W
Sandoval County, New Mexico

The geologic name of the surface formation is: Tertiary Nacimiento

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

<u>Formation</u>	<u>Depth</u>	<u>Elevation</u>
Chacra	1470	+5300
Total Depth	1645	

Estimated K.B. elevation: 6770 GR

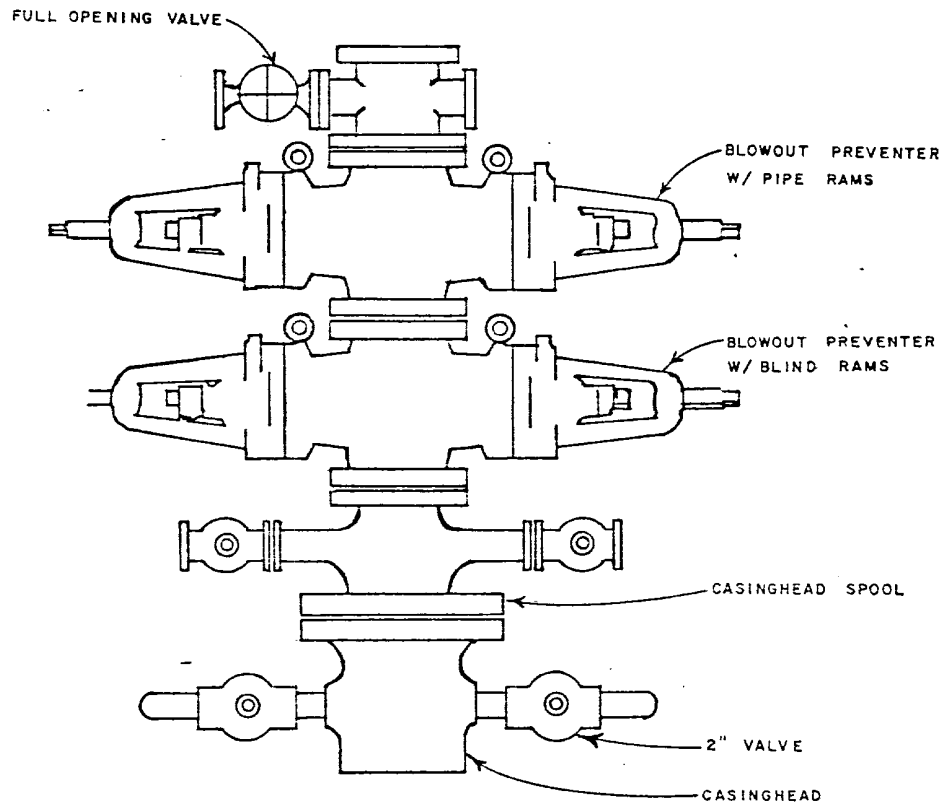
<u>Estimated Depth</u>	<u>Casing Size</u>	<u>Casing Weight</u>	<u>Hole Size</u>	<u>Sacks Cement</u>	<u>Type</u>
100	7" Used	23	9 5/8"	50	Class "B" 2% CaCl ₂
1470	4½" New	9.5	6¼"	50 125	Class "B" Class "B" 50-50 Poz mix, 6% gel with ¼# Celloflake/sack

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

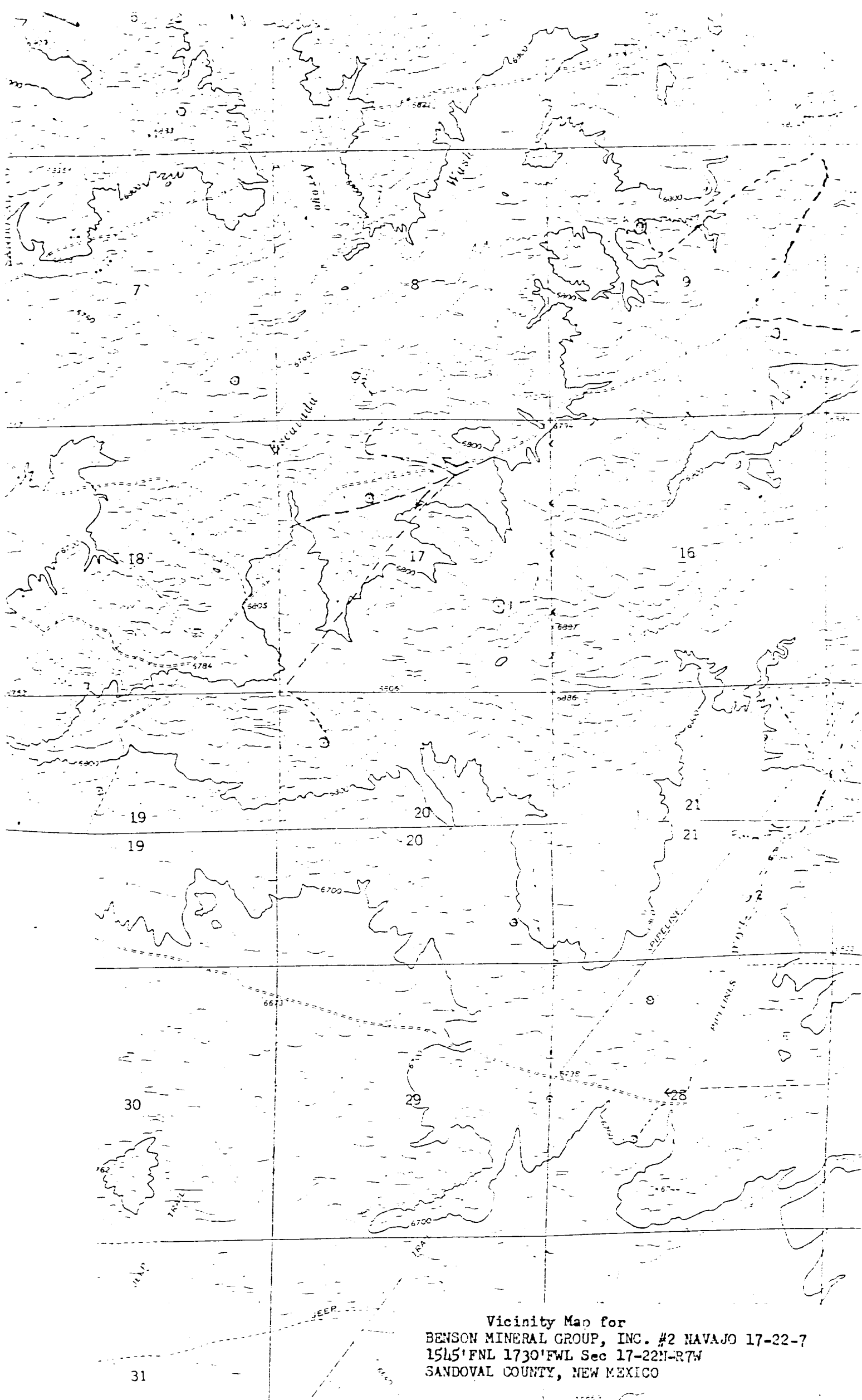
GEOLOGY BY:	DATE:	POSTED:	APPROVED BY:	DRAFTING BY: G W R
-------------	-------	---------	--------------	-----------------------

MULTI-POINT SURFACE USE PLAN

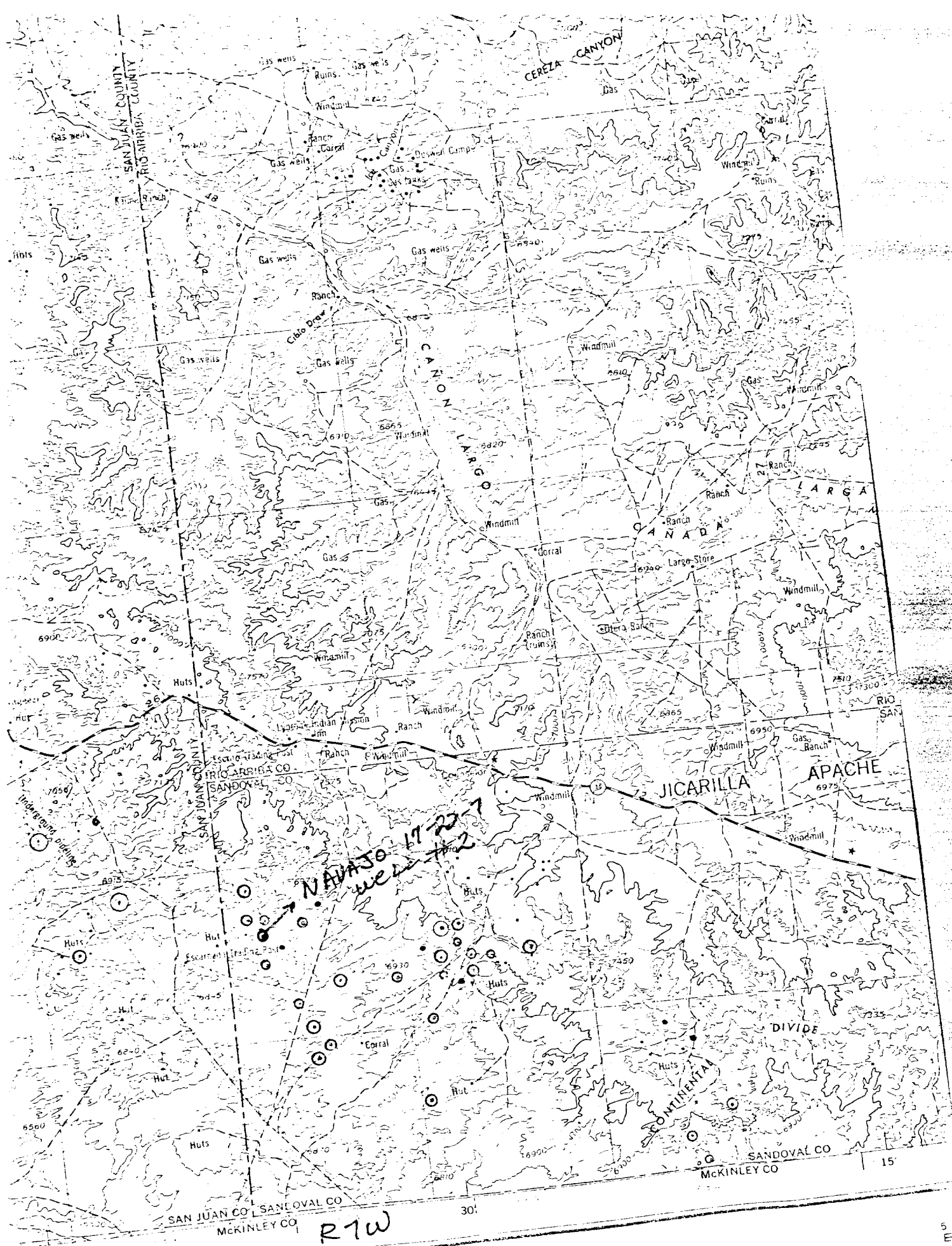
Navajo 17-22-7 Well#2
1545' FNL & 1730' FWL Section 17-T22N-R7W
Sandoval County, New Mexico

1. The attached road map and sketch show the proposed route to the location and distances from towns.
2. An access road of 330 feet 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.



Vicinity Map for
BENSON MINERAL GROUP, INC. #2 NAVAJO 17-22-7
1545' FNL 1730' FWL Sec 17-22N-R7W
SANDOVAL COUNTY, NEW MEXICO



POPULATED PLACES

Over 500,000	Los Angeles
100,000 to 500,000	Omaha
25,000 to 100,000	Galveston
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	Part of the territory

LEGEND

ROAD DATA 1960

Figures in red denote approximate distances in miles between stars

ROADS

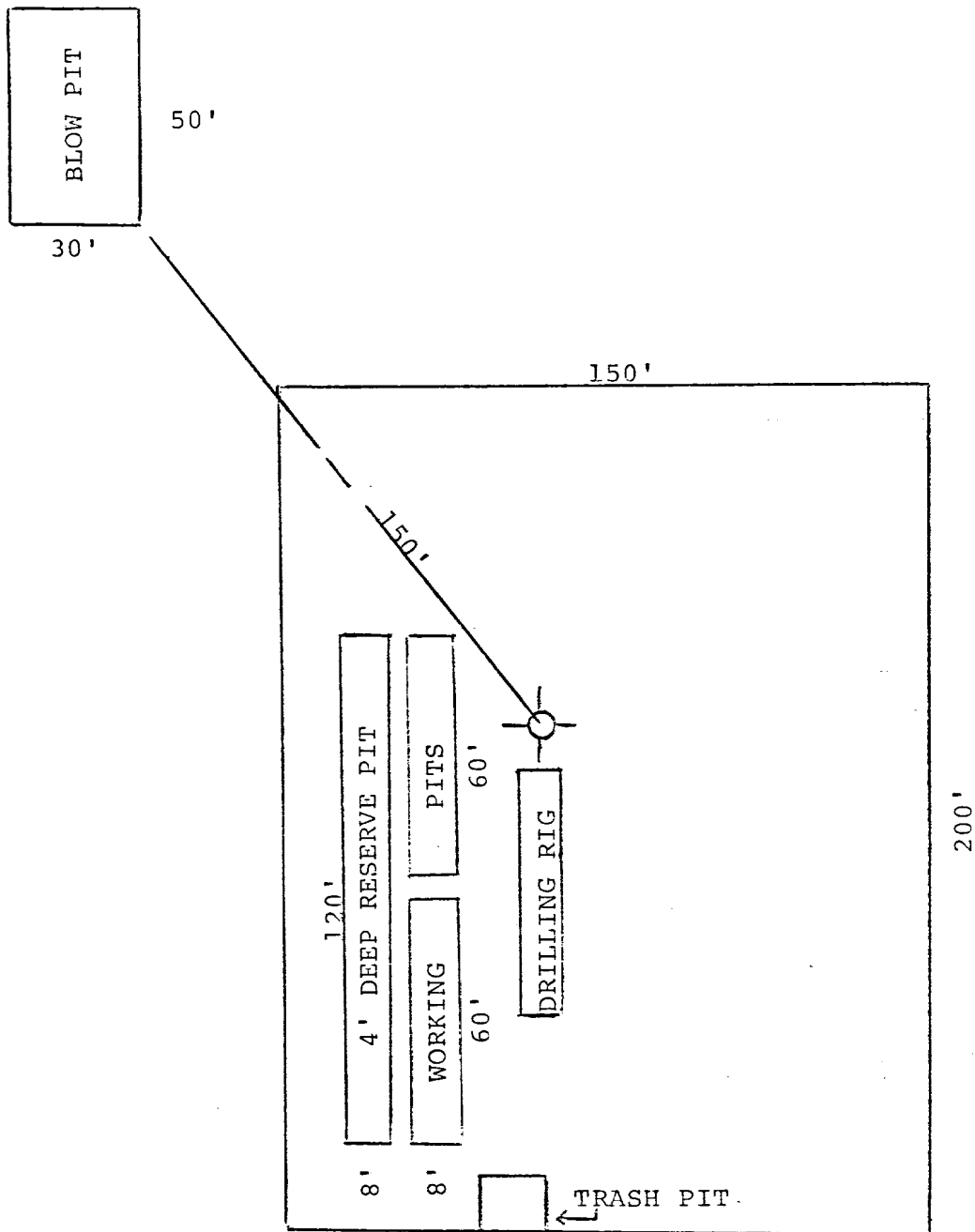
Hard surface, heavy duty	More than two lanes wide
Two lanes wide; Federal route marker	Hard surface, medium duty
More than two lanes wide	Two lanes wide; State route marker
Improved light duty	Unimproved dirt
Trail	

LANDMARKS

⊕	School; Church; Other
⊕	Horizontal control point
⊕	Spot elevation in feet
⊕	Marsh or swamp
⊕	Intermittent or dry stream
⊕	Power line

RAILROADS

Landplane airport	Landing area
Seaplane airport	Seaplane anchorage
Marsh or swamp	Power line



**BENSON
MINERAL
GROUP, INC.**

3200 Anaconda Tower
555 17th Street
Denver, Colorado 80202

PROPOSED LOCATION
DIAGRAM

GEOLOGY BY:	DATE:	POSTED:	APPROVED BY:	DRAFTING BY:
-------------	-------	---------	--------------	--------------

Navajo 17-22-7 Well #2
1545' FNL & 1730' FWL Section 17-T22N-R7W
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

**BENSON
MINERAL
GROUP, INC.**

February 8, 1979

Mr. Carl A. Barrick
U. S. Geological Survey
Federal Building
701 Camino Del Rio
Durango, Colorado 81301

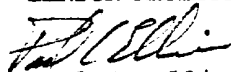
Dear Mr. Barrick:

Benson Mineral Group, Inc. intends to drill the following wells
contingent to evaluation of the area:

Dome Rusty	7-22-6	#1	Lease No.	NM-7776
Federal	20-22-6	#2	Lease No.	NM-17008
Federal	21-22-6	#1	Lease No.	NM-19814-A
Navajo	8-22-7	#1	Lease No.	NOO-C-14-20-5380
Navajo	9-22-7	#1	Lease No.	NOO-C-14-20-5591
✓ Navajo	17-22-7	#2	Lease No.	NOO-C-14-20-5383

Sincerely,

BENSON MINERAL GROUP, INC.



Paul C. Ellison
Production Manager