

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
H 1850' FNL & 935' FEL, Section 18-T22N-R6W
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
6 miles south of Counselor, New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 935'

16. NO. OF ACRES IN LEASE 963

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 2086

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6966 GR

22. APPROX. DATE WORK WILL START*

5. LEASE DESIGNATION AND SERIAL NO.

NM-21455

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal 18-22-6

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Rusty Chacra

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Section 18-T22N-R6W

12. COUNTY OR PARISH 13. STATE

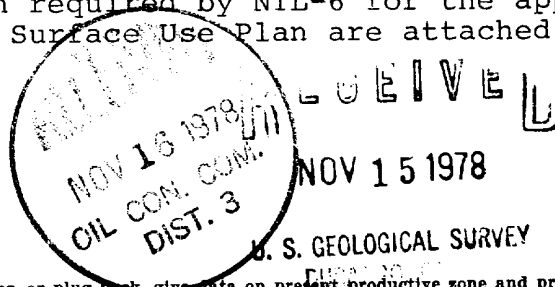
Sandoval

N.M.

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	2086	220 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 11/9/78

(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

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.

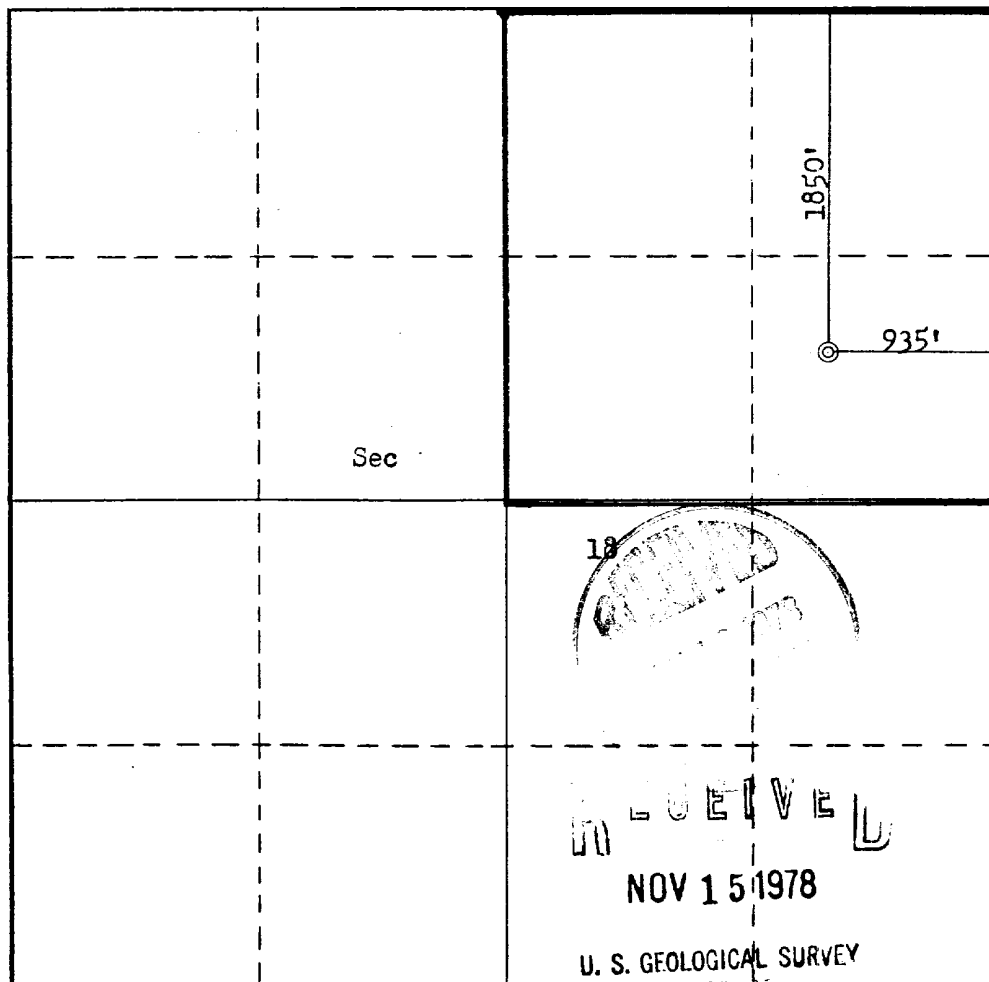
Operator BENSON MINERAL GROUP, INC.			Lease FEDERAL 18-22-6		Well No. 1
Unit Letter H	Section 18	Township 22N	Range 6W	County Sandoval	
Actual Footage Location of Well: 1850 feet from the North line and 935 feet from the East line					
Ground Level Elev. 6966	Producing Formation Chacra		Pool Rusty Chacra	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

November 9, 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

November 9, 1978

Registered Professional Engineer and/or Land Surveyor

Fred B. Kerr Jr.

Certificate No.

3950

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

Federal 18-22-6 Well #1
1850' FNL & 935' FEL Section 18-T22N-R6W
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	1926	+5040
Total Depth	2086	

Estimated K.B. elevation: 6966 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
2086	4½" New	9.5	6¼"	50 170	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.

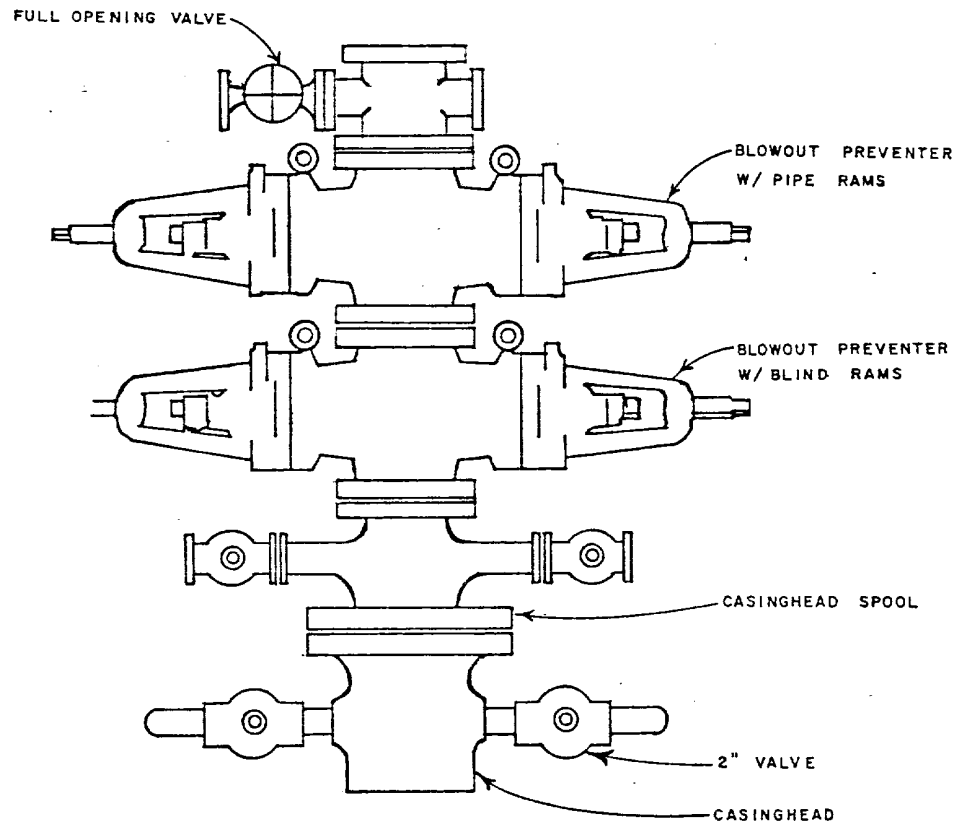
The logging program will be as follows: Induction-Electric and Compensated Density-Gamma Ray from surface casing point to total depth.

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

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U. S. GEOLOGICAL SURVEY
DISTRIBUTION



**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
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U. S. GEOLOGICAL SURVEY
DENVER, COLORADO

MULTI-POINT SURFACE USE PLAN

Federal 18-22-6 Well #1
1850' FNL & 935' FEL Section 18-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.

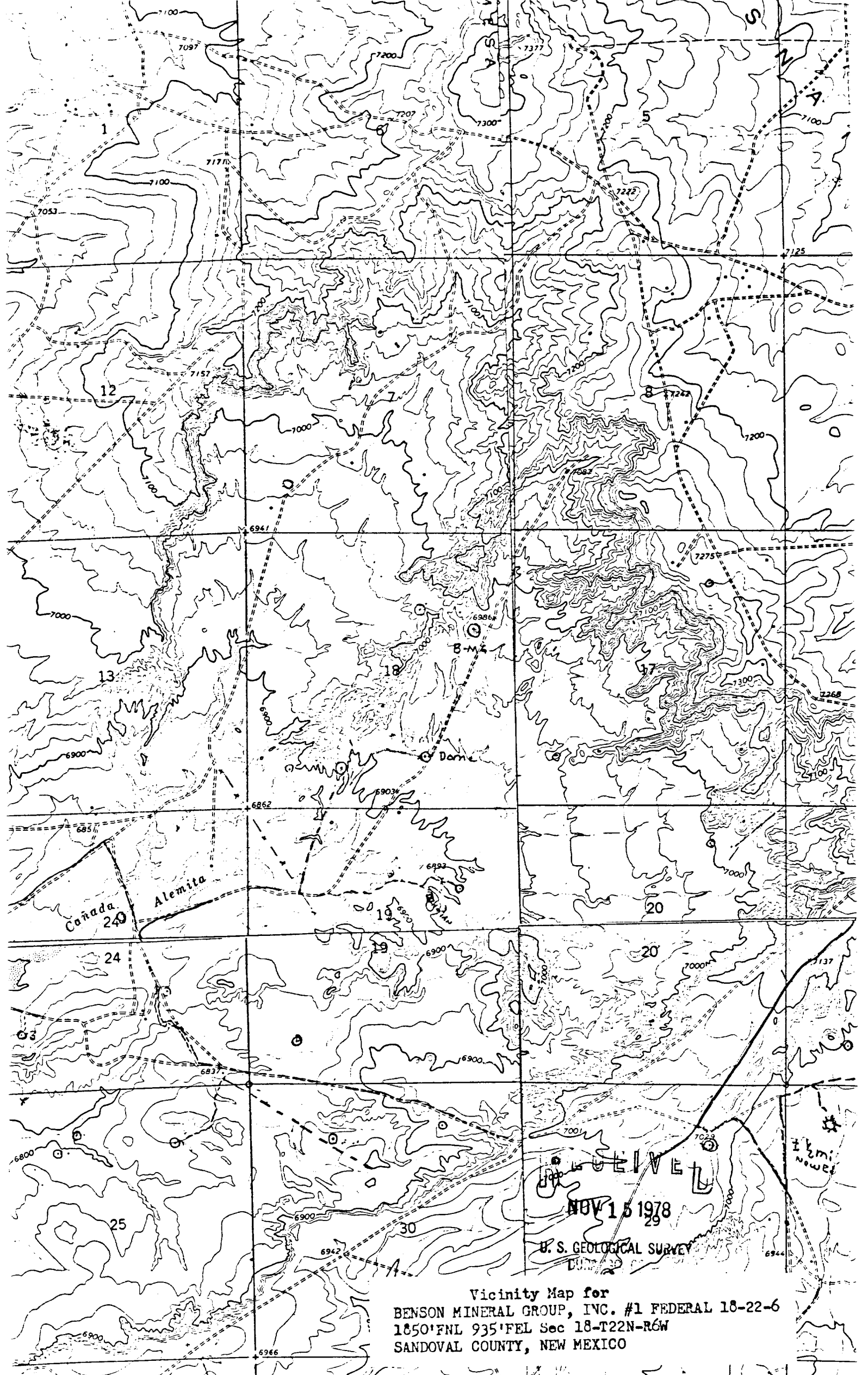
Representatives of the U.S. Geological Survey's Durango Office and Bureau of Land Management's Farmington Office will inspect the site. Cultural resources inspection will be conducted by an archaeologist from San Juan College or Salmon Ruins.

12. A Certification Statement by Benson Mineral Group, Inc.'s Representative is included.

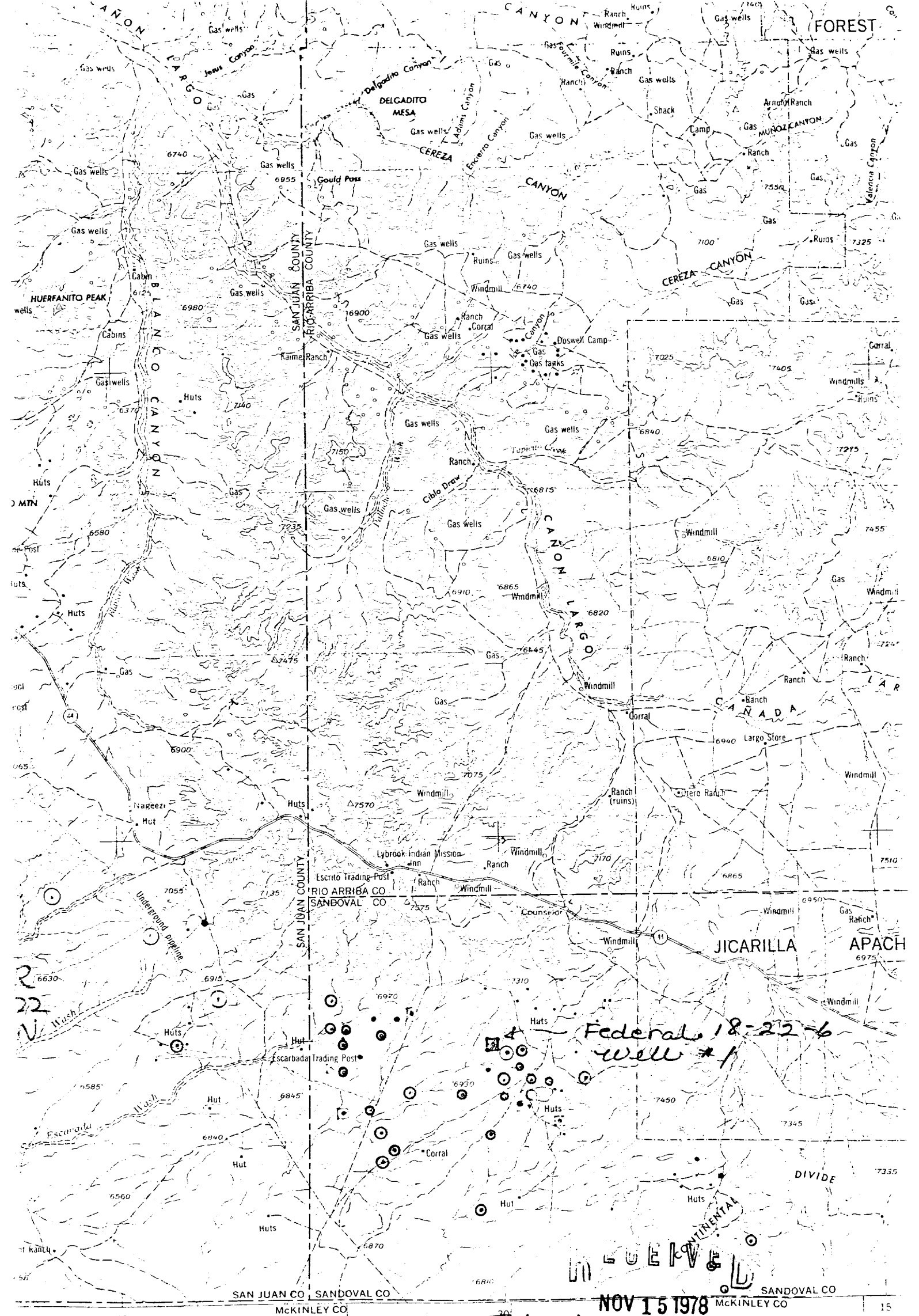
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U. S. GEOLOGICAL SURVEY
DURANGO OFFICE



Vicinity Map for
BENSON MINERAL GROUP, INC. #1 FEDERAL 18-22-6
1850'FNL 935'FEL Sec 18-T22N-R6W
SANDOVAL COUNTY, NEW MEXICO



U.S. maps show relative topography

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

LEGEND

ROAD DATA 1960

Figures in red circles approximate distances in miles between stars

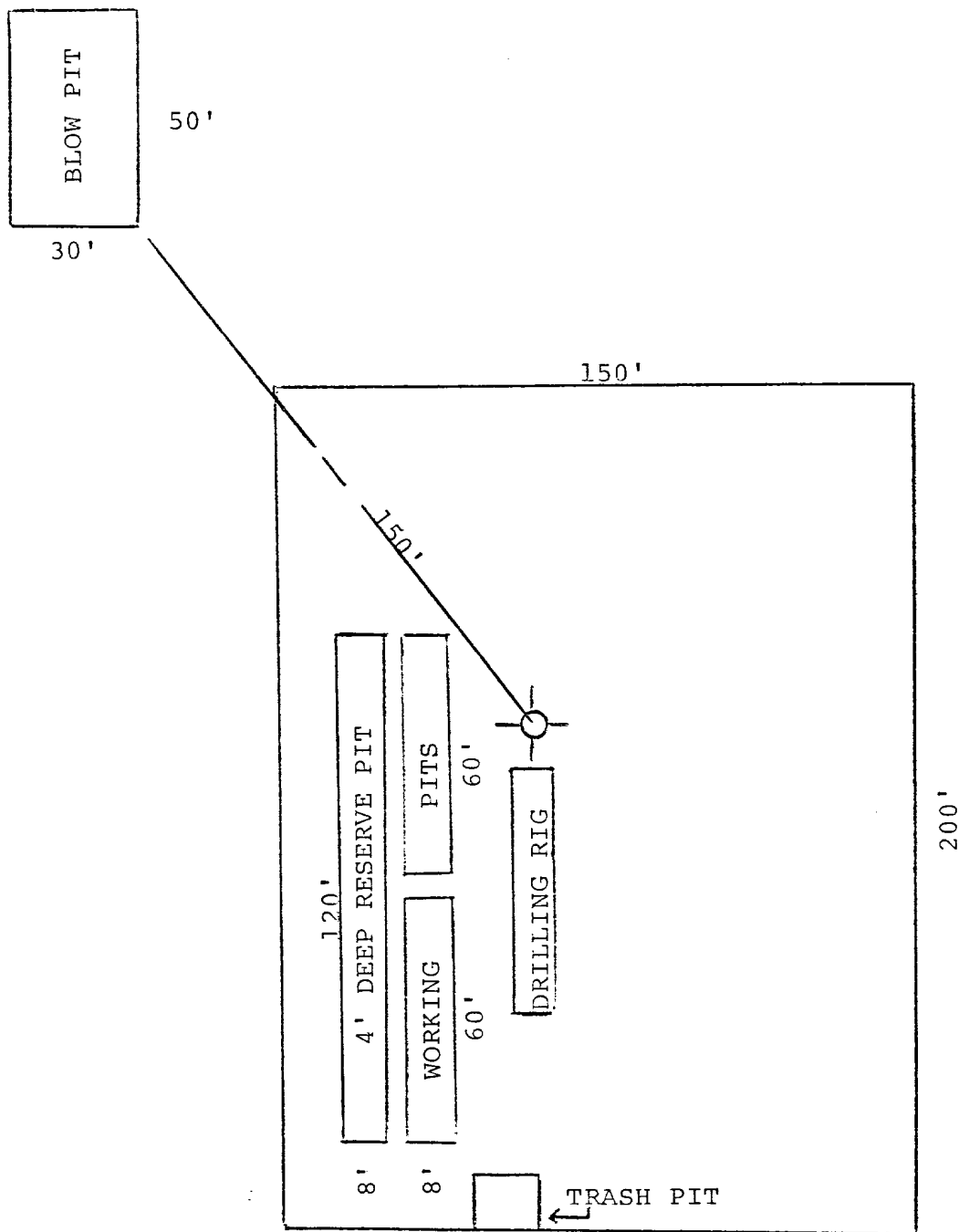
ROADS

Hard surface, heavily traveled	3 LANES 4 LANES
More than two lanes wide	151
Two lanes wide, Federal route marker	3 LANES 4 LANES
Hard surface, medium duty	151
More than two lanes wide	151
Two lanes wide, State route marker	151

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U.S. GEOLOGICAL SURVEY

DIAGRAM



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U. S. GEOLOGICAL SURVEY
DENVER, COLORADO

**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 18-22-6 Well #1
1850' FNL & 935' FEL Section 18-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.

November 9, 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

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DENVER OFFICE