

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

1060' FNL & 950' FWL Sec. 17-T22N-R8W

At proposed prod. zone

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

2½ 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)

950'

18. DISTANCE FROM PROPOSED LOCATION*

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

None

16. NO. OF ACRES IN LEASE

1280

19. PROPOSED DEPTH

1475'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160

20. ROTARY OR CABLE TOOLS

Rotary

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

6724 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 |
|--------------|----------------|-----------------|---------------|--------------------|
| 12½ | 7" used | 23 | 100 | 100 sx. circ. |
| 6½ | 4½" new | 9.5 | 1475 | 160 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 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 July 10, 1978

(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

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

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.

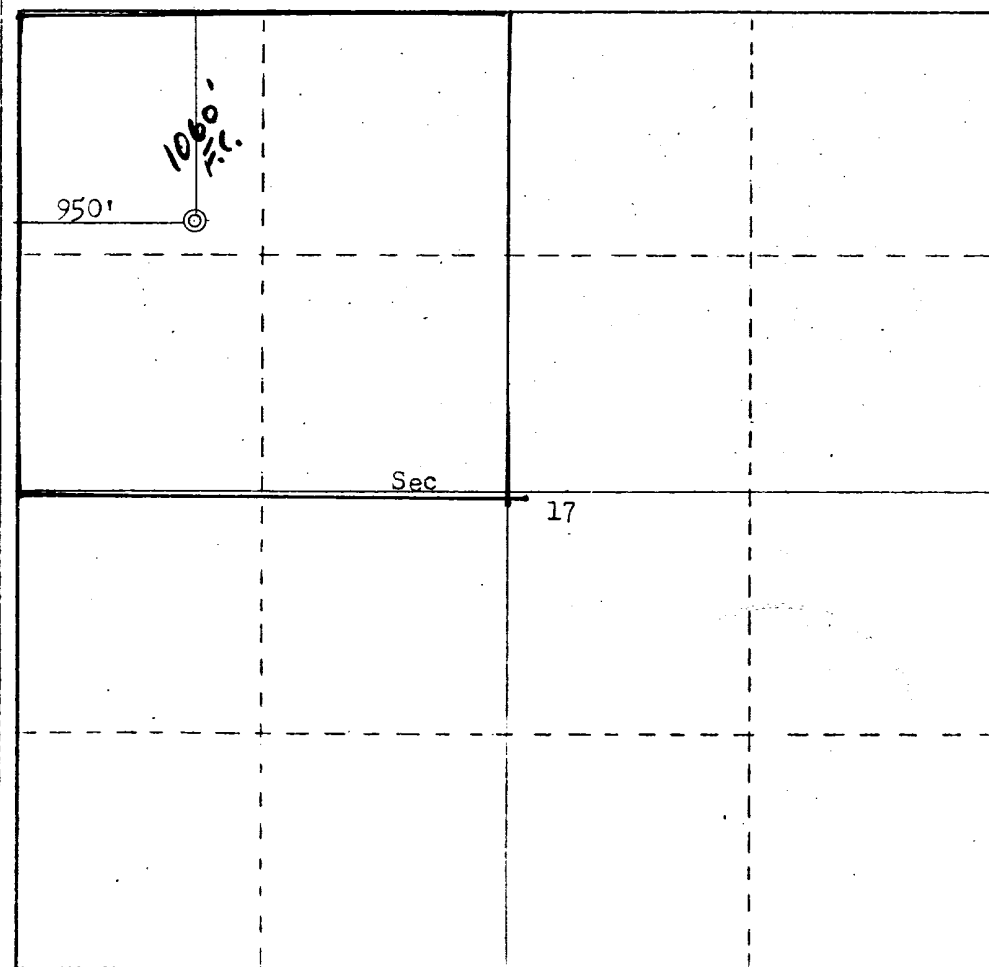
| | | | | | |
|---|--------------------------------------|------------------------|--|--|----------------------|
| Operator BENSON MINERAL GROUP, INC. | | | Lease FEDERAL 17-22-8 | | Well No. 1 |
| Unit Letter D | Section 17 | Township 22N | Range 8W | County San Juan | |
| Actual Footage Location of Well: 1060 feet from the North line and 950 feet from the West line | | | | | |
| Ground Level Elev. 6724 | Producing Formation Chacra | | Pool Undesignated Wildcat | 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 **July 10, 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 **July 3, 1978**
Registered Professional Engineer and Certified Surveyor

Fred B. Kerr Jr.
Certified **Fred B. Kerr Jr.**
3950

0 340 680 1020 1360 1700 2040 2380 2720 3060 3400 3740 4080 4420 4760 5100 5440 5780 6120 6460 6800 7140 7480 7820 8160 8500 8840 9180 9520 9860 10200

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

Federal 17-22-8 Well #1
1060' FNL & 950' FWL Sec. 17-T22N-R8W
San Juan Co., N. M.

The geologic name of the surface formation is: Tertiary Paleocene

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

| <u>Formation</u> | <u>Depth</u> | <u>Elevation</u> |
|------------------|--------------|------------------|
| Chacra | 1155 | +5575 |
| Total Depth | 1475 | |

Estimated K.B. elevation: 6730

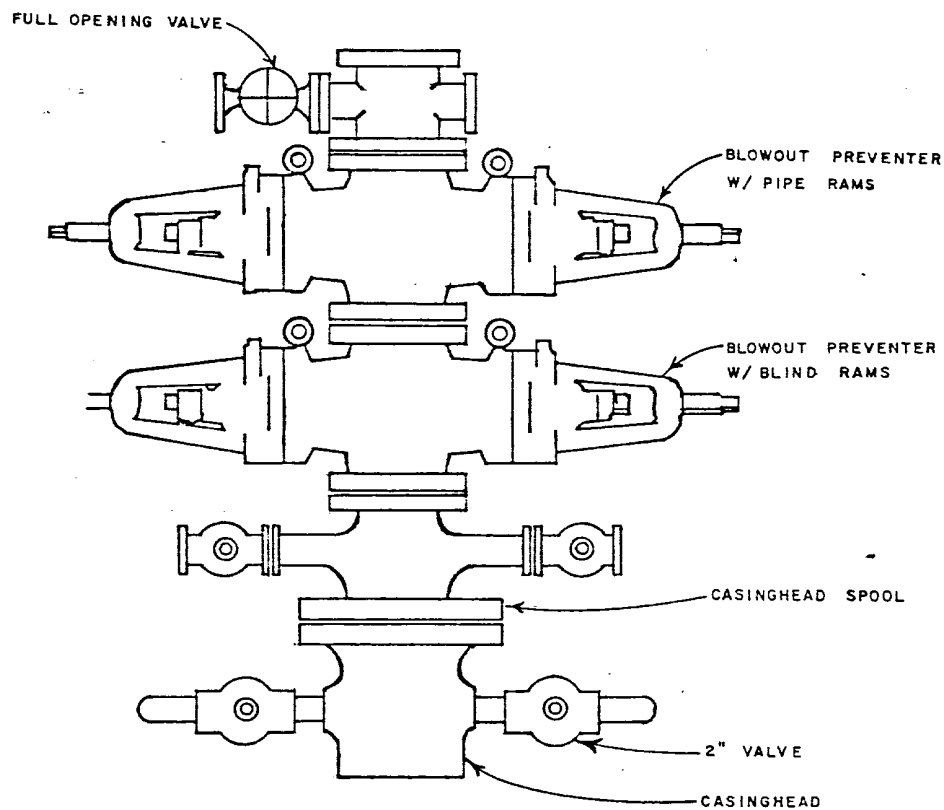
| <u>Estimated Depth</u> | <u>Casing Size</u> | <u>Casing Weight</u> | <u>Hole Size</u> | <u>Sacks Cement</u> | <u>Type</u> |
|----------------------------|------------------------|--------------------------|----------------------|-------------------------|--|
| 100 | 7" Used | 23 | 12¼" | 100 | Class "B" 2% CaCl ₂ |
| 1475 | 4½" New | 9.5 | 6½" | 50 110 | 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

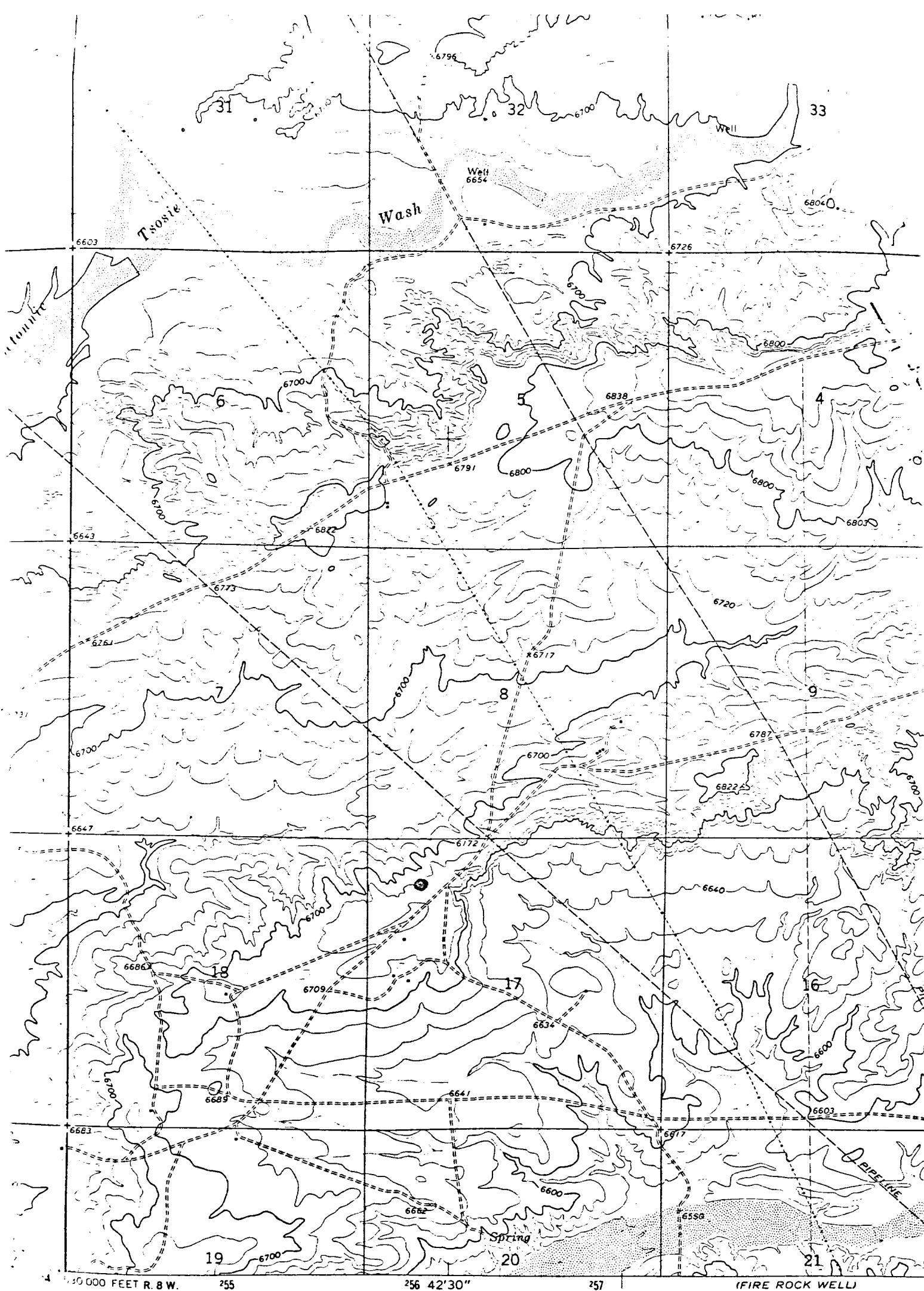
| | | | | |
|-------------|-------|---------|--------------|-----------------------|
| GEOLOGY BY: | DATE: | POSTED: | APPROVED BY: | DRAFTING BY: G W R |
|-------------|-------|---------|--------------|-----------------------|

MULTI-POINT SURFACE USE PLAN

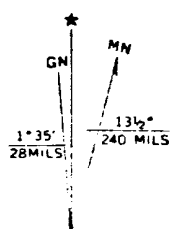
Federal 17-22-8 Well #1
1060' FNL & 950' FWL, Sec. 17-T22N-R8W
San Juan Co., N. M.

1. The attached road map and sketch show the proposed route to the location and distances from towns.
2. An access road of 200 ft. ~~XXXX~~ 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. Drilling mud will be hauled away and the reserve pit back filled. Reseeding of the site will be carried out as detailed by the Surface Management Agency at the time 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.

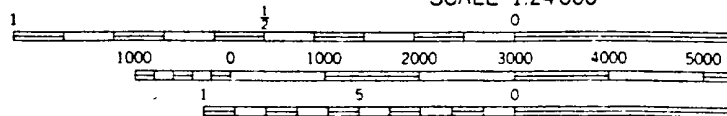
Representatives of the U.S. Geological Survey's Farmington Office and Bureau of Land Management's Farmington Office will inspect the site. Cultural resources inspection will be conducted by an archaeologist from San Juan College or Salmon Ruins.
12. A Certification Statement by Benson Mineral Group, Inc.'s representative is included.



al Survey



New Rd $\pm 200'$

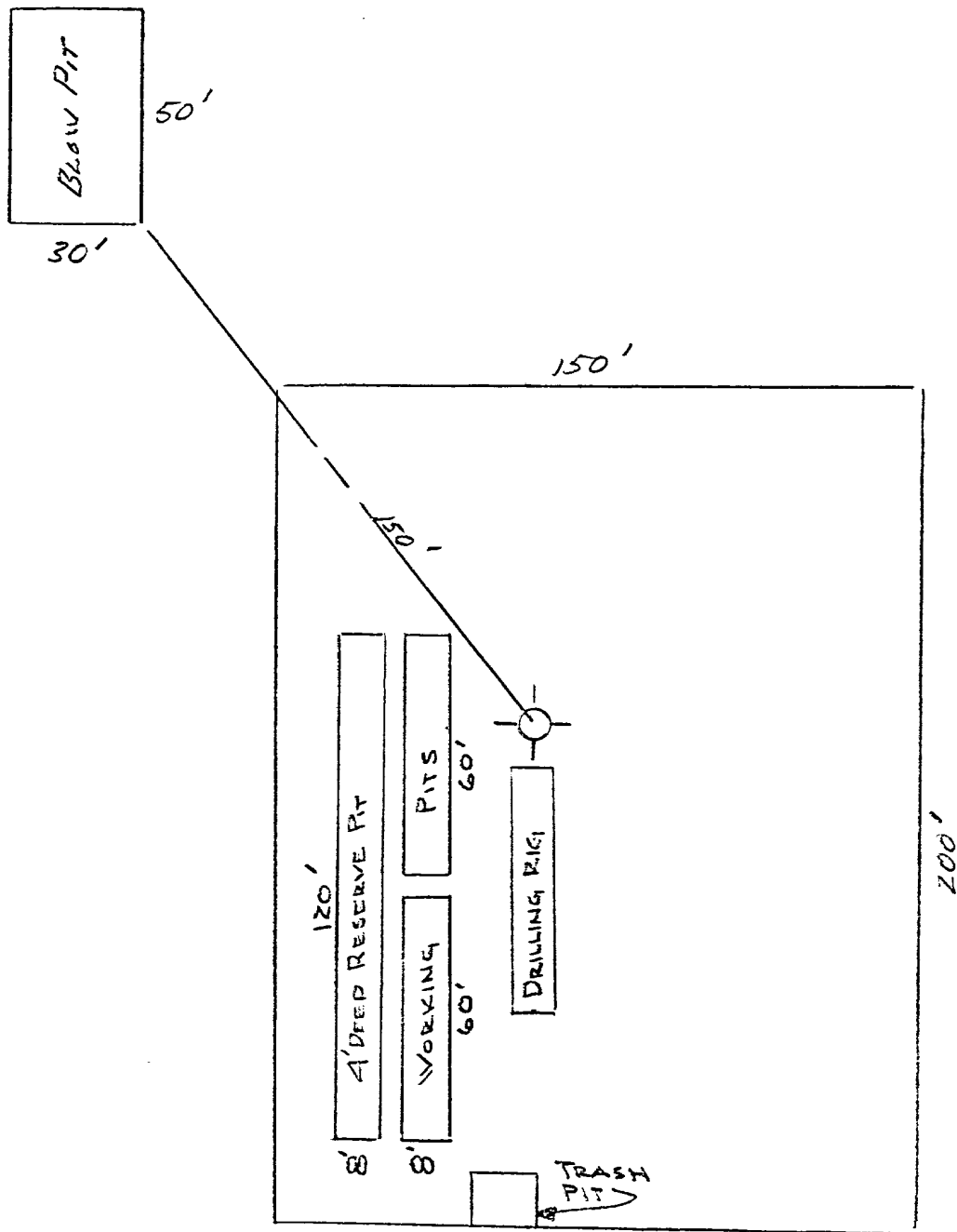


CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

UTM GRID AND 1966 MAGNETIC
DECLINATION AT CENTER OF S

Vicinity Map for
BENSON MINERAL GROUP, INC. #1 Federal 17-22-8
1060'FNL 950'FWL Sec 17-T22N-R8W
San Juan County, New Mexico

LOACV



PROPOSED LOCATION
DIAGRAM

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.

July 10, 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