

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

1480' FSL & 1140' FWL Section 20-T22N-R6W

At proposed prod. zone

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

1 mile 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)

1140'

18. DISTANCE FROM PROPOSED LOCATION*

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

None

16. NO. OF ACRES IN LEASE

640

19. PROPOSED DEPTH

2100

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160

20. ROTARY OR CABLE TOOLS

Rotary

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

6917 GR

22. APPROX. DATE WORK WILL START*

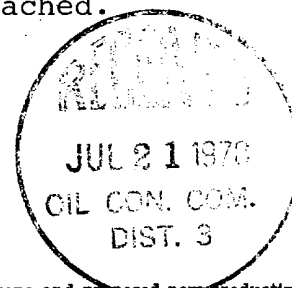
As soon as permitted

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	7" used	23	100	100 sx. circ.
6 1/4	4 1/2" new	9.5	2100	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

July 18, 1978

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

U. S. GEOLOGICAL SURVEY
DENVER, COLO.

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-122
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

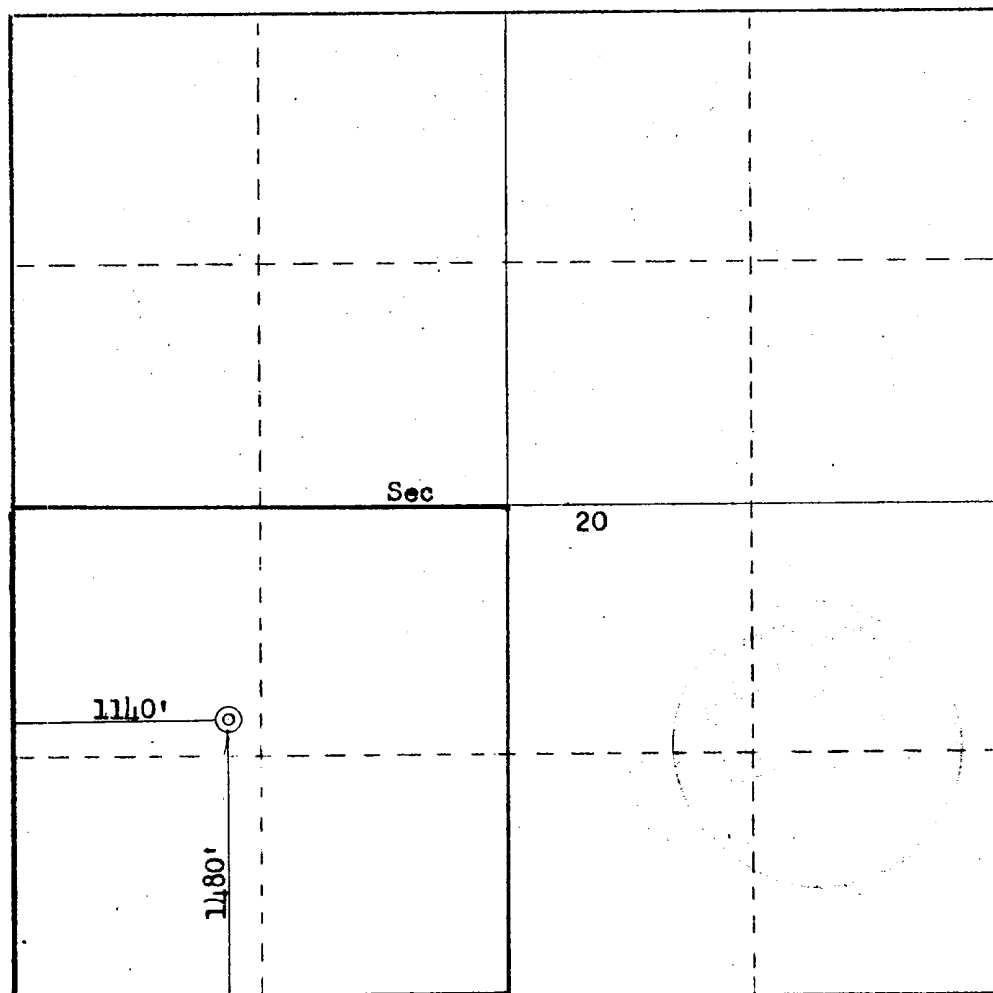
Operator BENSON MINERAL GROUP, INC.			Lease FEDERAL 20-22-6		Well No. 1
Unit Letter L	Section 20	Township 22N	Range 6W	County Sandoval	
Actual Footage Location of Well:					
1140	feet from the South	line and	1140	feet from the West	line
Ground Level Elev. 6917	Producing Formation Chacra	Pool Wildcat Undesignated		Dedicated Acreage 160 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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.



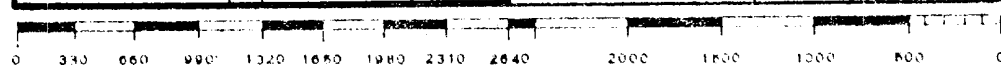
CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Paul C. Ellison
Name
Production Manager
Position
Benson Mineral Group, Inc.
Company
July 18, 1978
Date
Paul C. Ellison

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 18, 1978
Registered Professional Surveyor and State Surveyor
Fred B. Kerr Jr.
Fred B. Kerr Jr.
Certificate No.
3950



Federal 20-22-6 Well #1
1480' FSL & 1140' FWL Sec. 20-T22N-R6W
Sandoval County, N. M.

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 18, 1978

Date


Paul C. Ellison

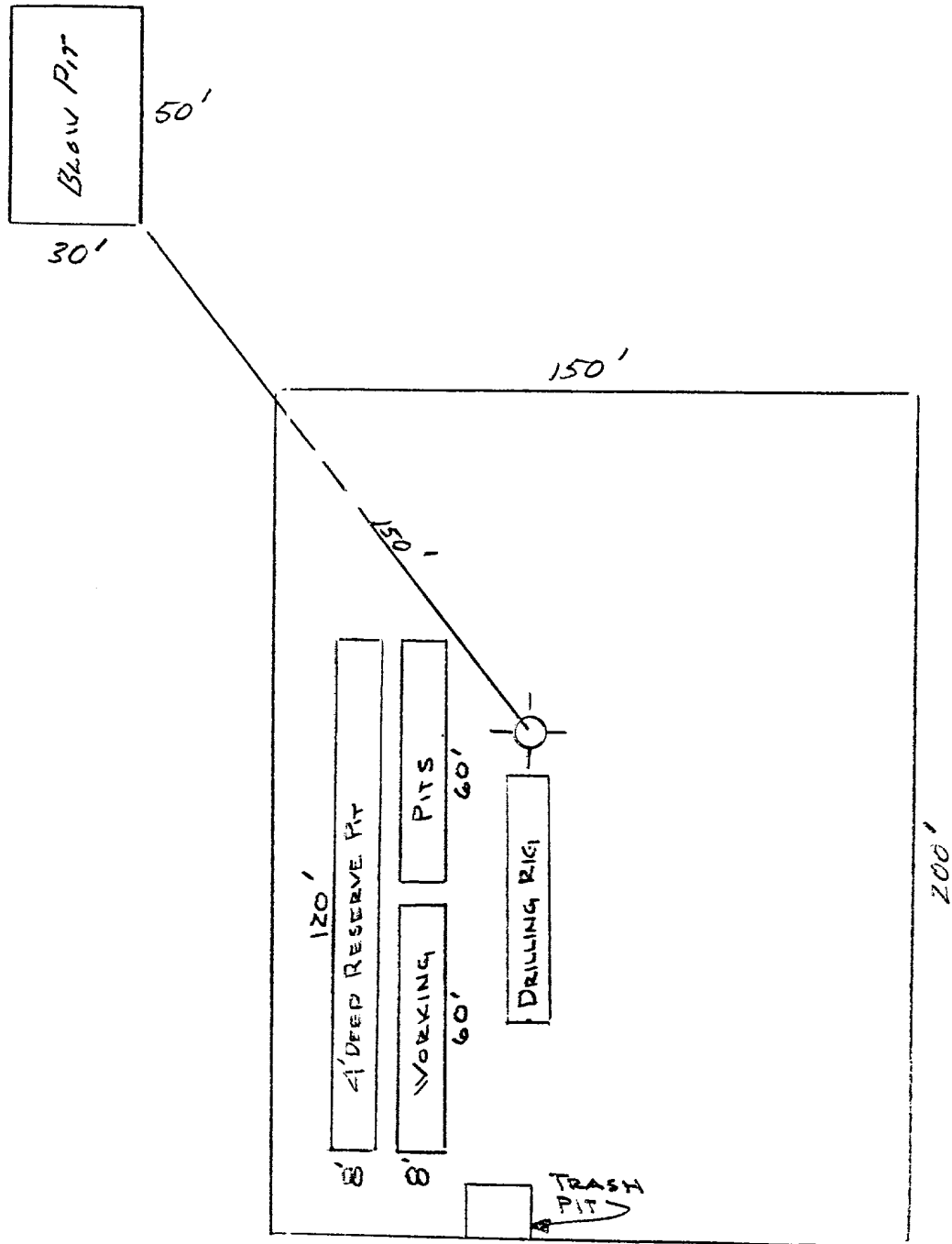
Production Manager

Benson Mineral Group Inc.'s Representative:

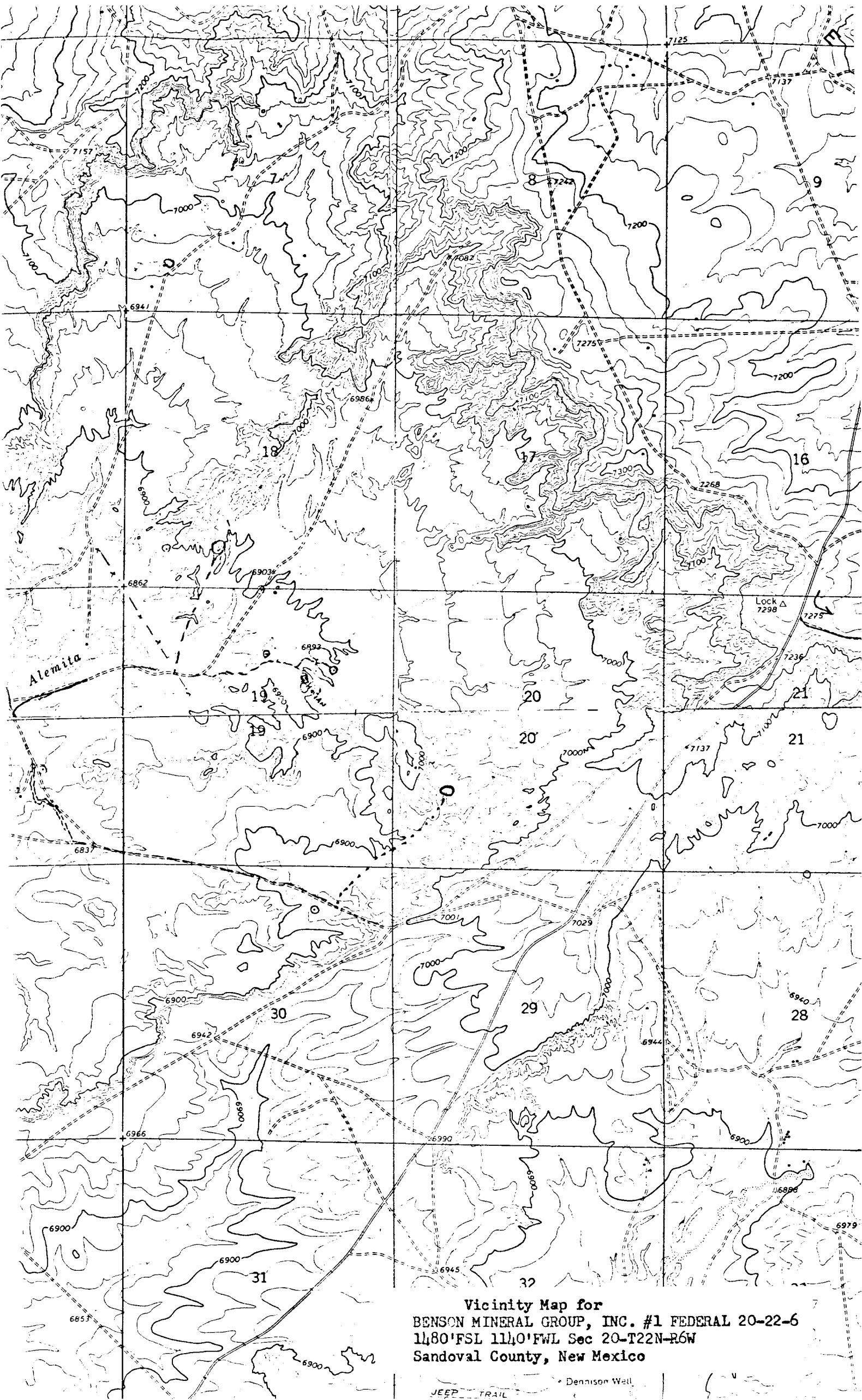
Paul C. Ellison

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

Address: 3200 Anacorda Tower
555 17th Street
Denver, Colorado 80202

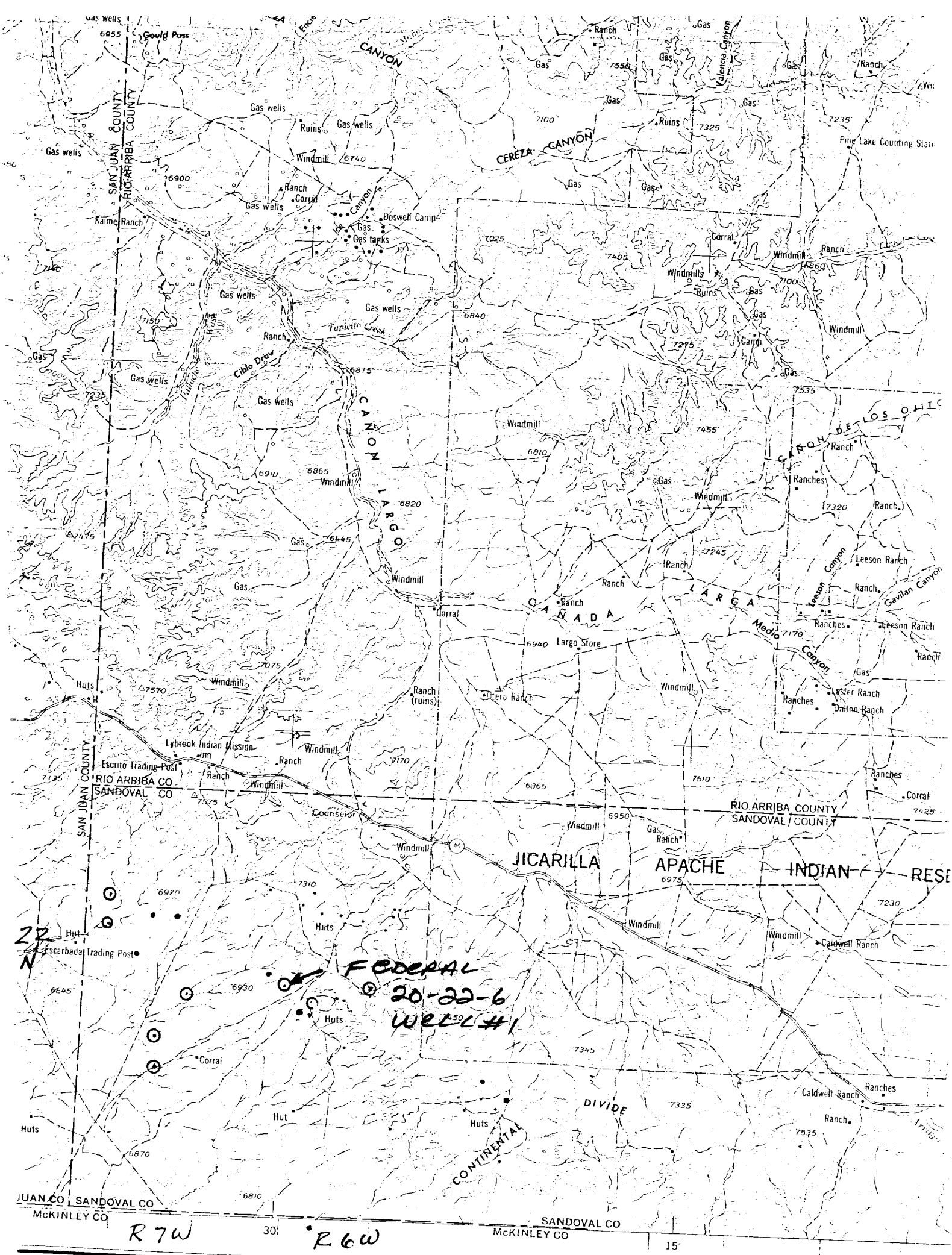


PROPOSED LOCATION
DIAGRAM



Vicinity Map for
BENSON MINERAL GROUP, INC. #1 FEDERAL 20-22-6
11480'FSL 1140'FWL Sec 20-T22N-R6W
Sandoval County, New Mexico

JEEP TRAIL • Dennisen Well

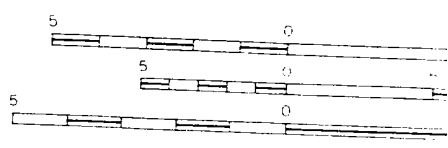


LEGEND
ROAD DATA 1960
Figures in red denote approximate distances in miles between stars

LOS ANGELES
OMAHA
GALVESTON
Laramie
Grand Coulee
Sun Valley

Hard surface, heavy duty	3 LANES 4 LANES
More than two lanes wide	15
Two lanes wide; Federal route marker	15
Hard surface, medium duty	3 LANES 4 LANES
More than two lanes wide	15
Two lanes wide; State route marker	15
Improved light duty	
Unimproved dirt	
Trail	

Landplane airport	Landmarks: School; Church; Other
Landing area	Horizontal control point
Seaplane airport	Spot elevation in feet
Seaplane anchorage	Marsh or swamp
Woods-brushwood	Intermittent or dry stream
	Power line



WITH SUPPLE
TR

1955 MAGNETIC DECLINATION
FROM 10-12-30' EASTERN

FOR SALE BY U. S. GEOLOGICAL

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

Federal 20-22-6 Well #1
1480' FSL & 1140' FWL Section 20-T22N-R6W
Sandoval County, 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	1773	+5150
Total Depth	2100	

Estimated K.B. elevation: 6923 KB

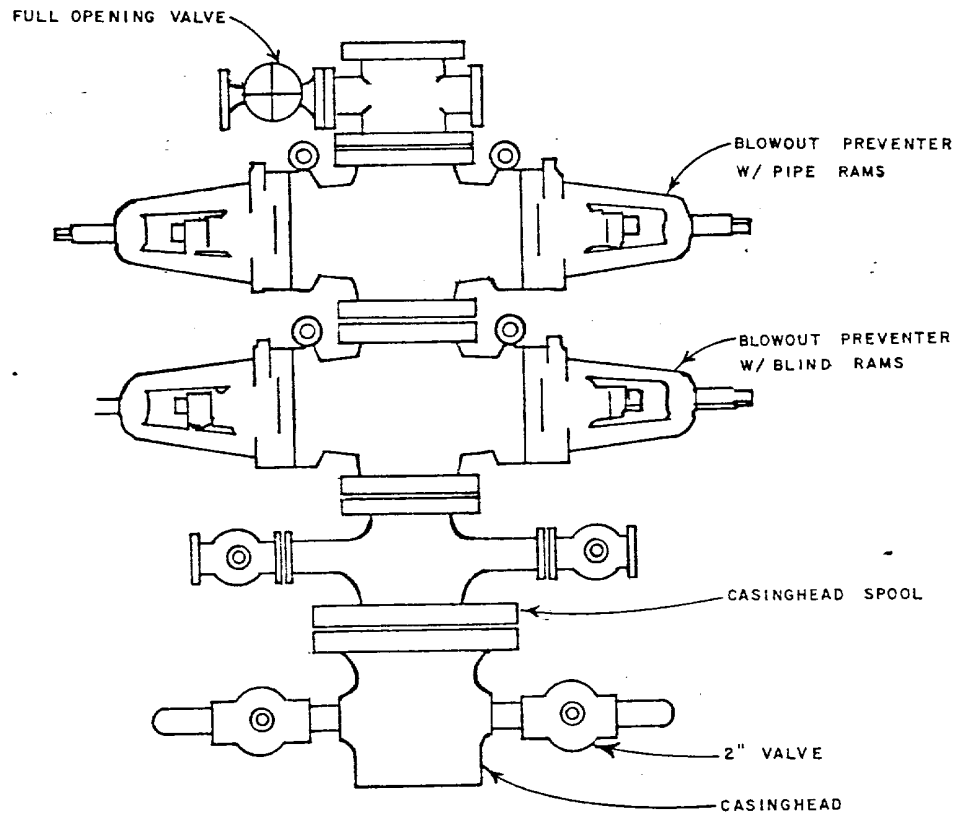
<u>Estimated Depth</u>	<u>Casing Size</u>	<u>Casing Weight</u>	<u>Hole Size</u>	<u>Sacks Cement</u>	<u>Type</u>
100	7" Used	23	12¼"	100	Class "B" 2% CaCl ₂
2100	4½" New	9.5	6½"	50 170	Class "B" Class "B" 50-50 Poz mix, 6% gel with ¼# Celloflake/sack

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.



**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 20-22-6 Well #1
1480' FSL & 1140' FWL Sec. 20-T22N-R6W
Sandoval County, 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 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. 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 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.