

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-043-20367

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. NM - 7448
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR Benson Mineral Group, Inc.		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR 3200 Anaconda Tower, 555 17th St., Denver, CO 80202		8. FARM OR LEASE NAME Federal 15-21-2
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 1090' FSL & 1160' FEL Section 15-T21N-R2W At proposed prod. zone		9. WELL NO. 1
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 5 miles northwest of Cuba, New Mexico		10. FIELD AND POOL, OR WILDCAT Wildcat Dakota
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1090		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 15-T21N-R2W NW/SE/SE
16. NO. OF ACRES IN LEASE 2560		12. COUNTY OR PARISH Sandoval
17. NO. OF ACRES ASSIGNED TO THIS WELL 320		13. STATE N.M.
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. None		19. PROPOSED DEPTH 6400
20. ROTARY OR CABLE TOOLS Rotary		21. APPROX. DATE WORK WILL START* As soon as permitted
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 7165 GR		

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	6400	640 sx. circ.

The above well is being drilled to evaluate the Dakota 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 flowout preventer program, if any.

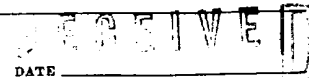
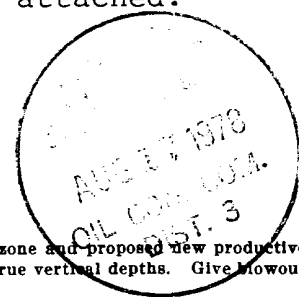
24. SIGNED Paul C. Ellison TITLE Production Manager DATE August 10, 1978
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

ok Frank

*See Instructions On Reverse Side



AUG 11 1978

U.S. GEOLOGICAL SURVEY
FEDERAL BUREAU OF MINERAL INVESTIGATION

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-101
Supersedes C-120
Effective 1-1-77

All distances must be from the outer boundaries of the Section

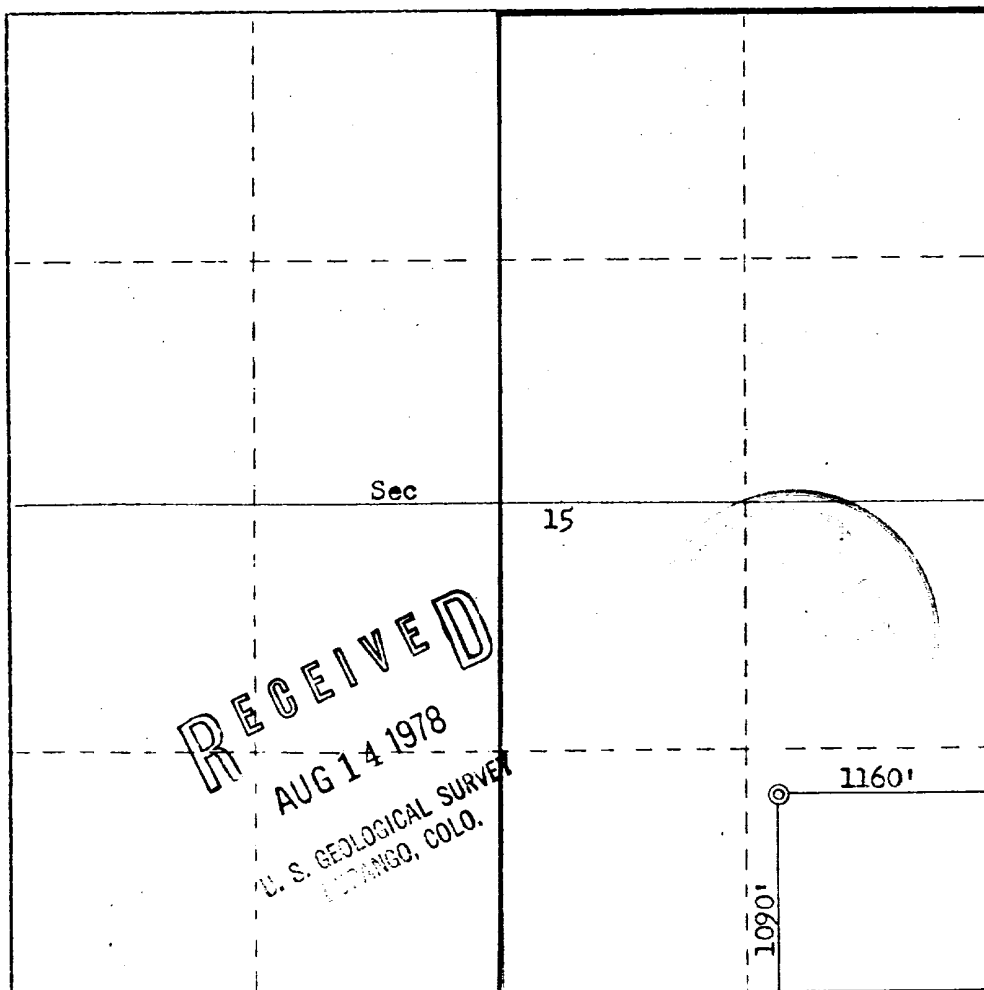
Operator BENSON MINERAL GROUP, INC.			Lease FEDERAL 15-21-2		Well No. 1
Tract Letter P	Section 15	Township 21N	Range 2W	County Sandoval	
Actual Footprint Location of Well:					
1090	Feet from the South	Line on	1160	Feet from the East	Line
Ground Level Elev. 7165	Producing Formation Dakota	Pool Wildcat Undesignated	Dedicated Acreage 320 <input checked="" type="checkbox"/> 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

Paul C. Ellison

Position

Production Manager

Company

Benson Mineral Group, Inc.

Date

August 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

August 8, 1978

By _____
and _____

Fred B. Kerr Jr.
Fred B. Kerr Jr.

FRED B. KERR, JR.

3950

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

Federal 15-21-2 Well #1
1090' FSL & 1160' FEL Section 15-T21N-R2W
Sandoval County, New Mexico

The geologic name of the surface formation is: Tertiary San Jose

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

<u>Formation</u>	<u>Depth</u>	<u>Elevation</u>
Pictured Cliffs	1700	+5471
Mesaverde	3320	+3851
Gallup	4945	+2226
Greenhorn	6040	+1131
Dakota	6310	+ 861
Total Depth	6400	
Estimated K.B. elevation:	7171	

<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
6400	4½" New	9.5	6½"	50 590	Class "B" Class "B" 50-50 Poz mix, 6% gel with ½# 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.

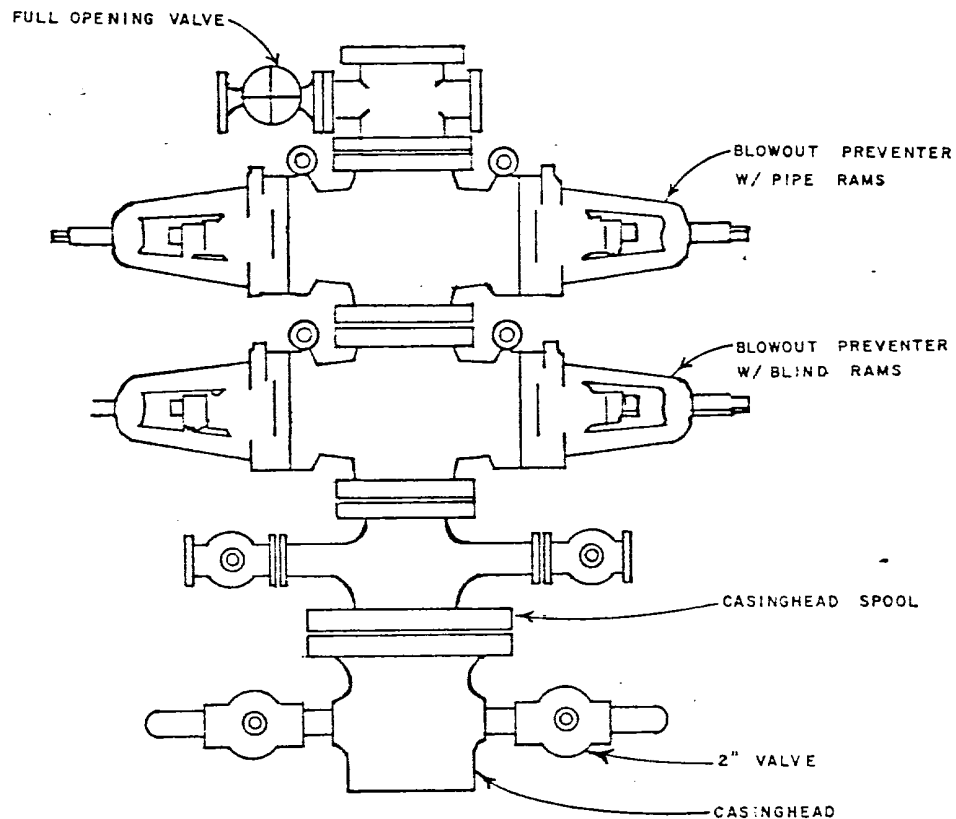
The logging program will be as follows: Induction-Electric and Compensated Density-Gamma Ray from surface casing point to total depth.

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

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 SURVEY
 1/15/83

**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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MULTI-POINT SURFACE USE PLAN

Federal 15-21-2 Well #1
1090' FSL & 1160' FEL Section 15-T21N-R2W
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 50 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 150' x 150' 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 150' x 150' 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 Albuquerque 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.

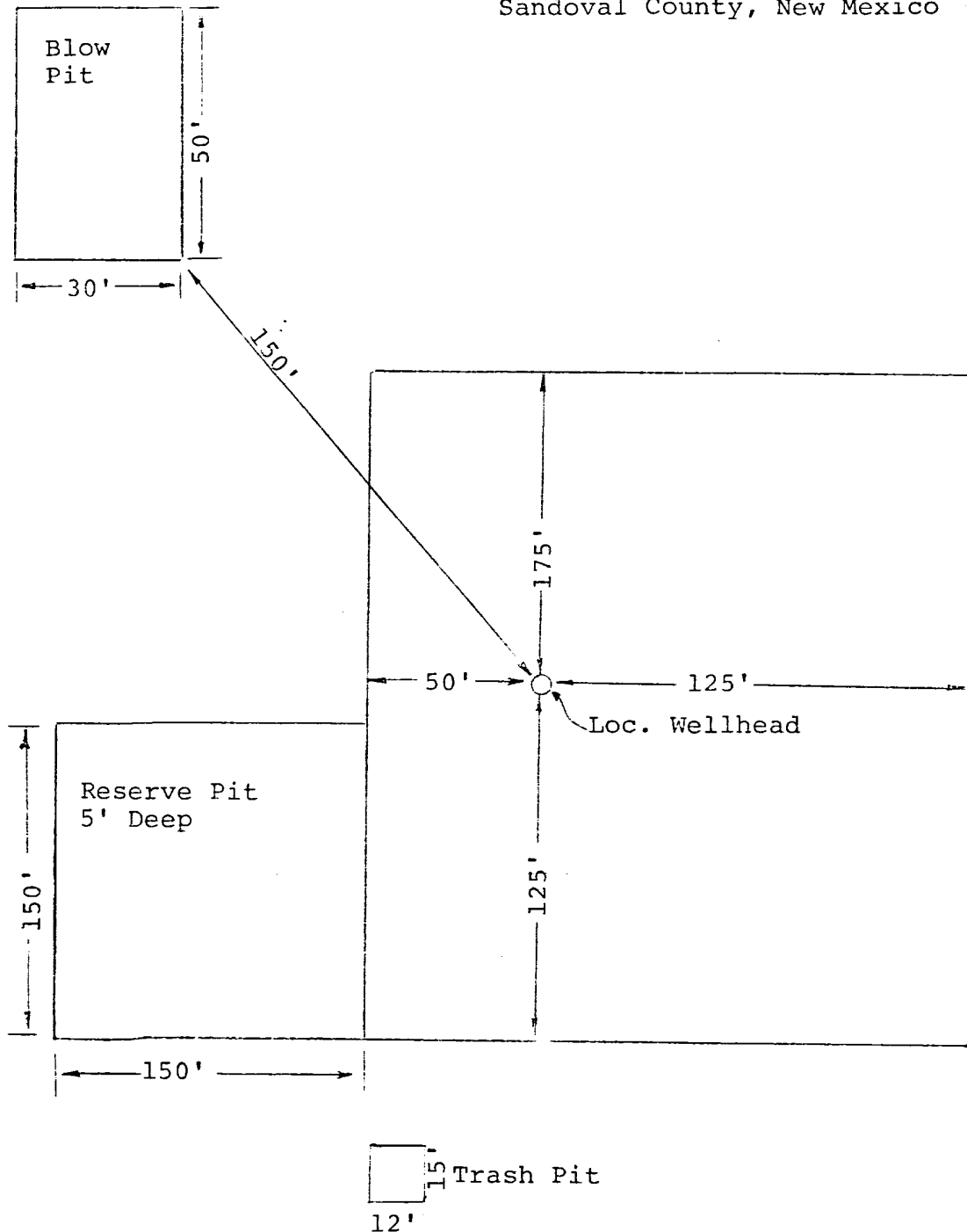
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DURANGO, COLO.

BENSON MINERAL GROUP, INC.
Drilling Location Specs.

Federal 15-21-2 Well #1
1090FSL & 1160FEL Sec. 15-T21N-R2W
Sandoval County, New Mexico

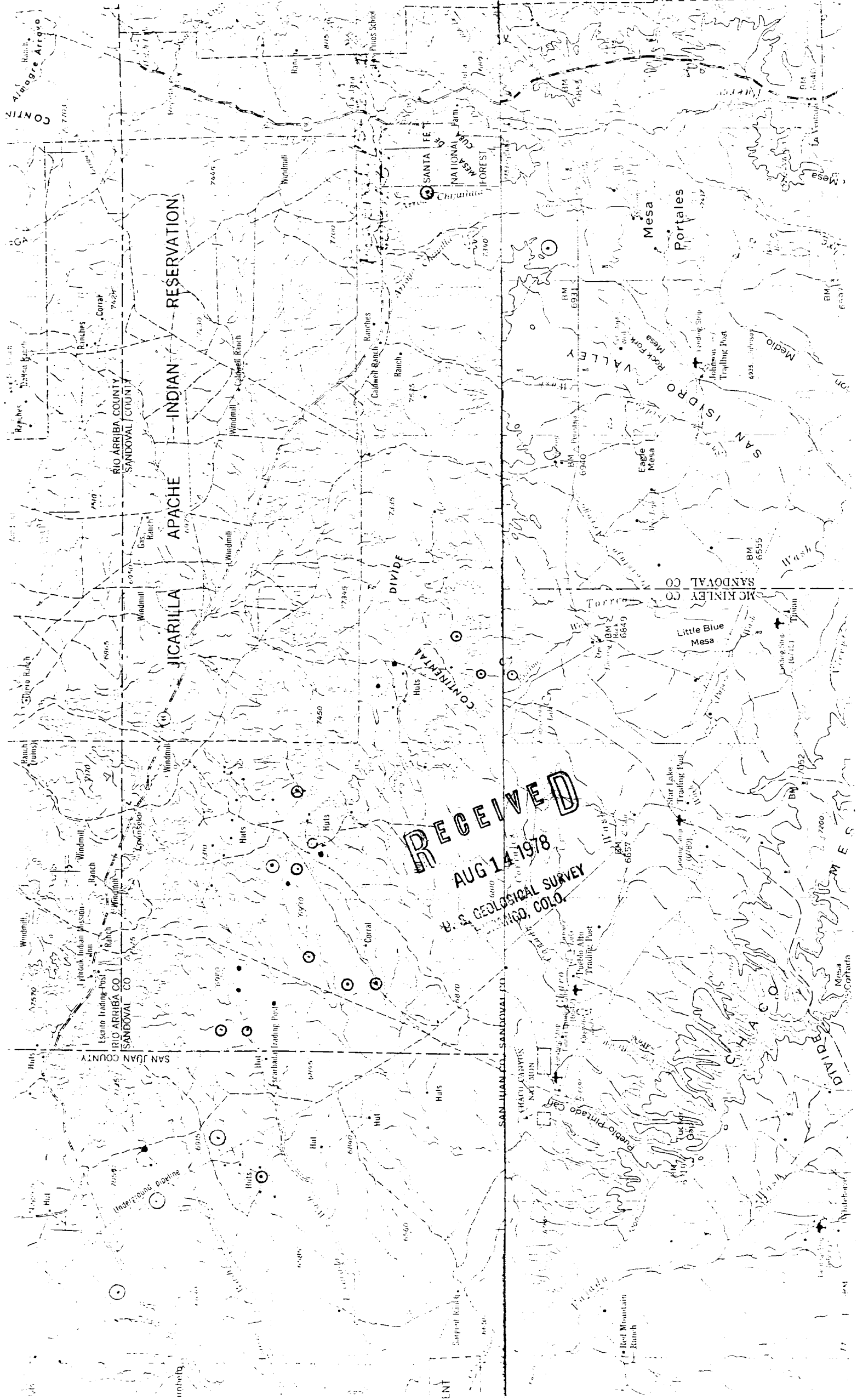


Approximately 1.2 Acres

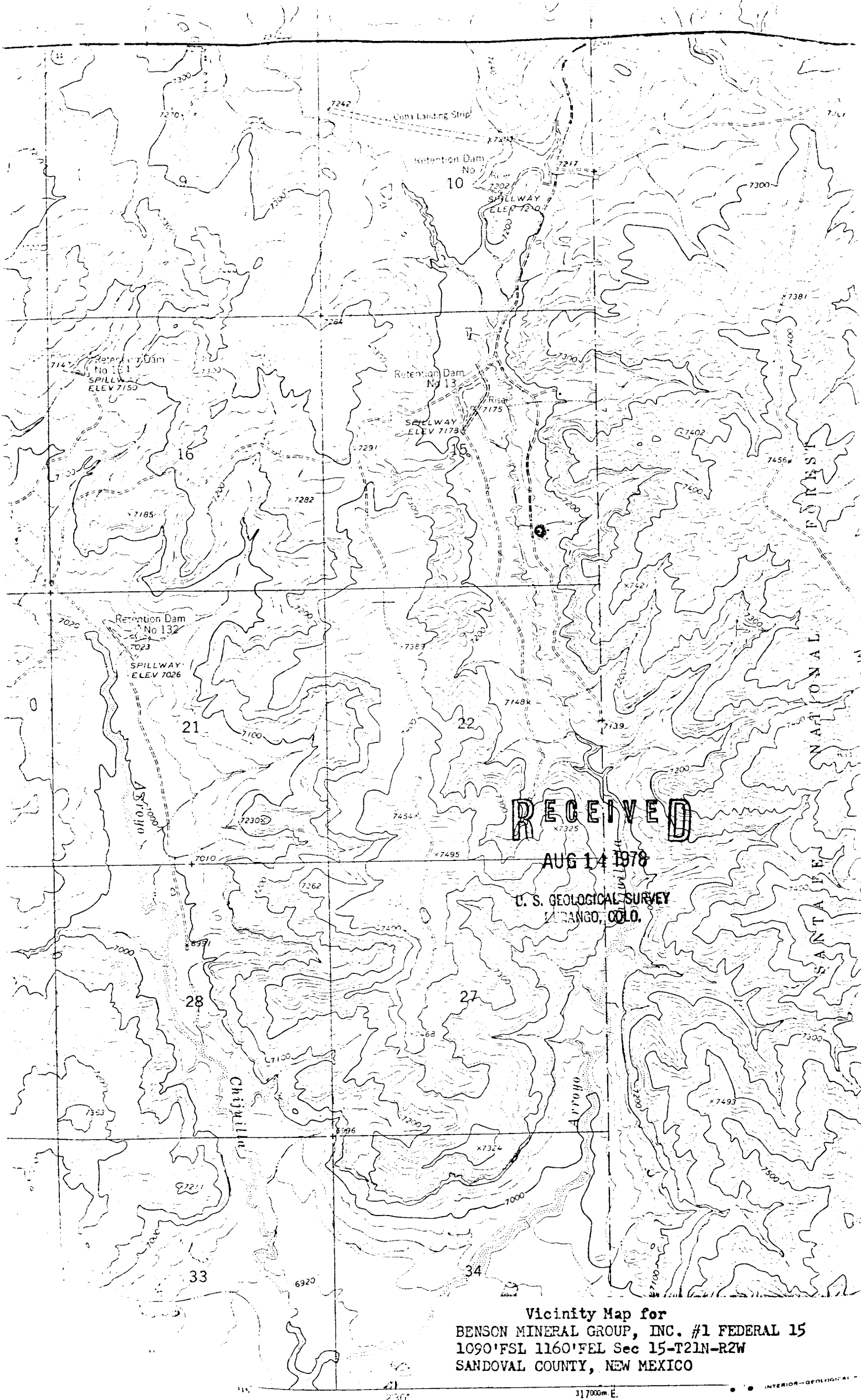
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Vicinity Map for
BENSON MINERAL GROUP, INC. #1 FEDERAL 15
1090'FSL 1160'FEL Sec 15-T21N-R2W
SANDOVAL COUNTY, NEW MEXICO

Federal 15-21-2 Well #1
1090' FSL & 1160' FEL Section 15-T21N-R2W
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.

August 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

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