

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

800' FNL & 860' FWL, Sec. 28-T22N-R6W

At proposed prod. zone

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

1 mile south of Counselor, N.M.

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

800'

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

None

16. NO. OF ACRES IN LEASE

160

19. PROPOSED DEPTH

2150

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160

20. ROTARY OR CABLE TOOLS

Rotary

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

6957 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	2150	225 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 10, 1978

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

JUL 12 1978

U. S. GEOLOGICAL SURVEY
DENVER, COLO.

*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-122
Effective 1-1-65

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

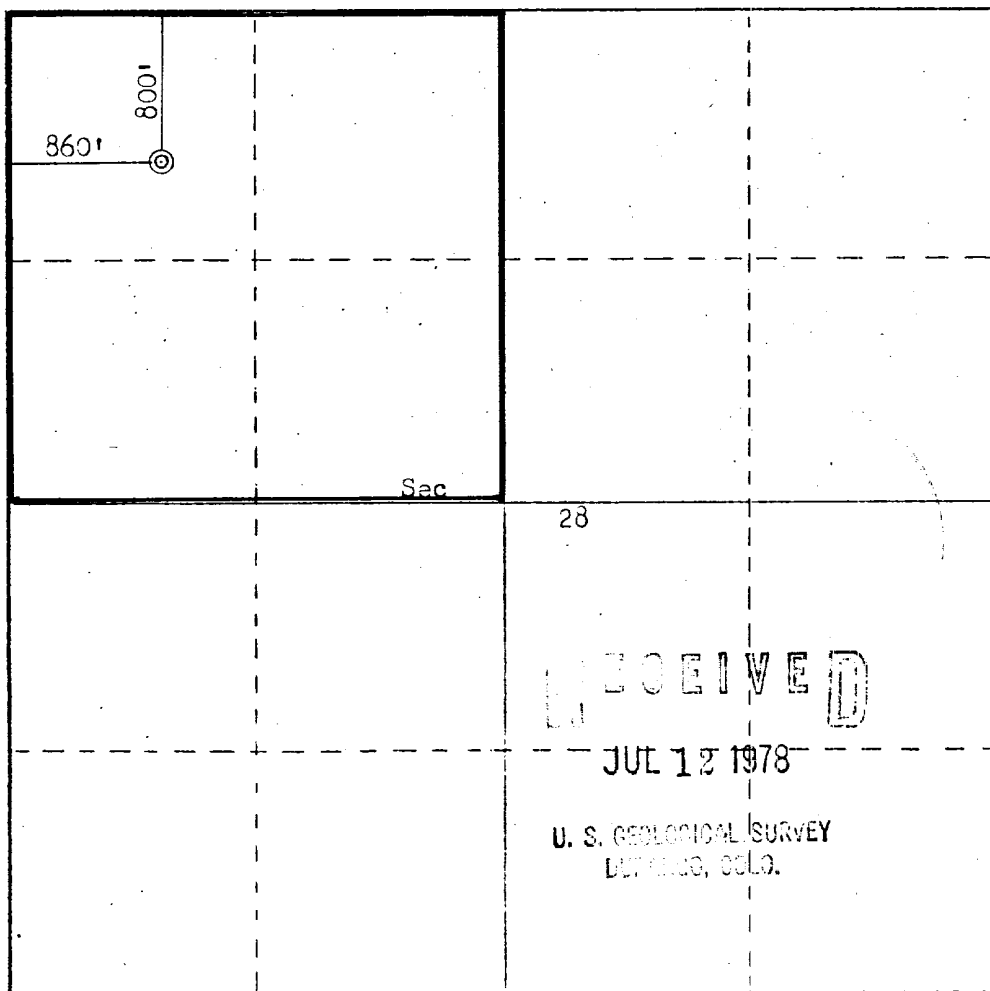
Operator BENSON MINERAL GROUP, INCORPORATED			Lease FEDERAL 23-22-6		Well No. 1
Unit Letter D	Section 28	Township 22N	Range 6W	County Sandoval	
Actual Footage Location of Well: 800 feet from the North line and 860 feet from the West line.					
Ground Level Elev. 6957	Producing Formation Chacra		Pool Undesignated Wildcat	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 **Paul C. Ellison**
Position **Production Manager**

Company **Benson Mineral Group, Inc.**

Date **July 10, 1978**

Date

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 5, 1978**

Registered Professional Surveyor and Land Surveyor

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

Certification No. **3950**
F. B. KERR, JR.

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600

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

Federal 28-22-6 Well #1
800' FNL & 860' FWL, Sec. 28-T22N-R6W
Sandoval 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	1813	+5150
Total Depth	2150	

Estimated K.B. elevation: 6963

<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	12½"	100	Class "B" 2% CaCl ₂
2150	4½" New	9.5	6½"	50 175	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.

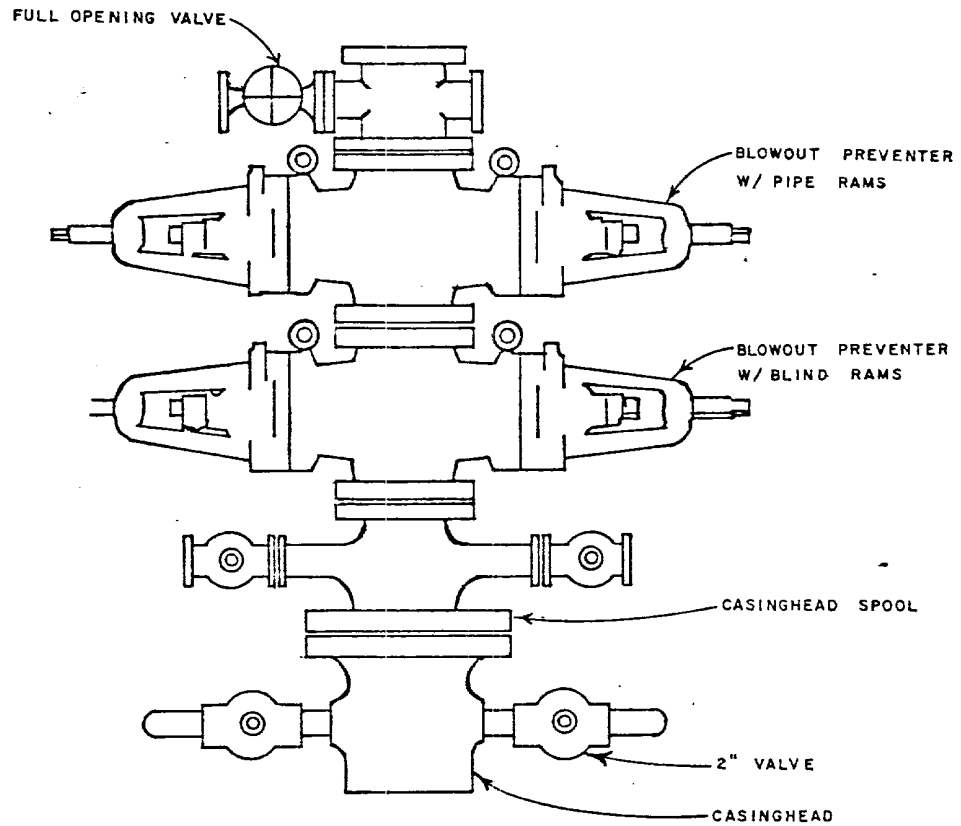
The logging program will be as follows: Induction-Electric and Compensated Density-Gamma Ray from surface casing point to total depth.

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

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**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 28-22-6 Well #1
800' FNL & 860' FWL, Sec. 28-T22N-R6W
Sandoval Co., N. M.

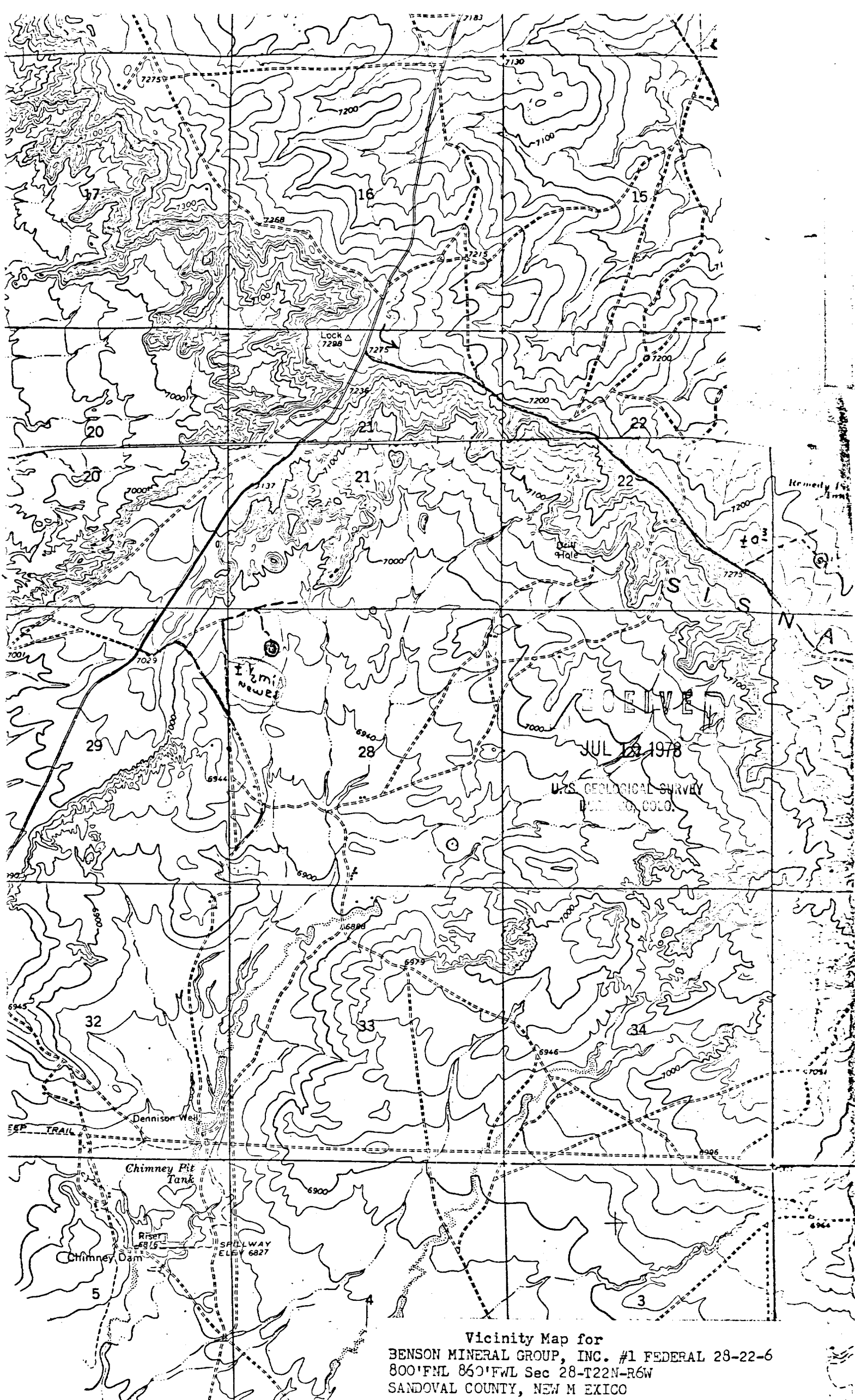
1. The attached road map and sketch show the proposed route to the location and distances from towns.
2. An access road of $\frac{1}{2}$ mile will be constructed as a new permanent road to location.
3. Existing oil and gas wells within a one-mile radius of our proposed well have been spotted on the vicinity 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.

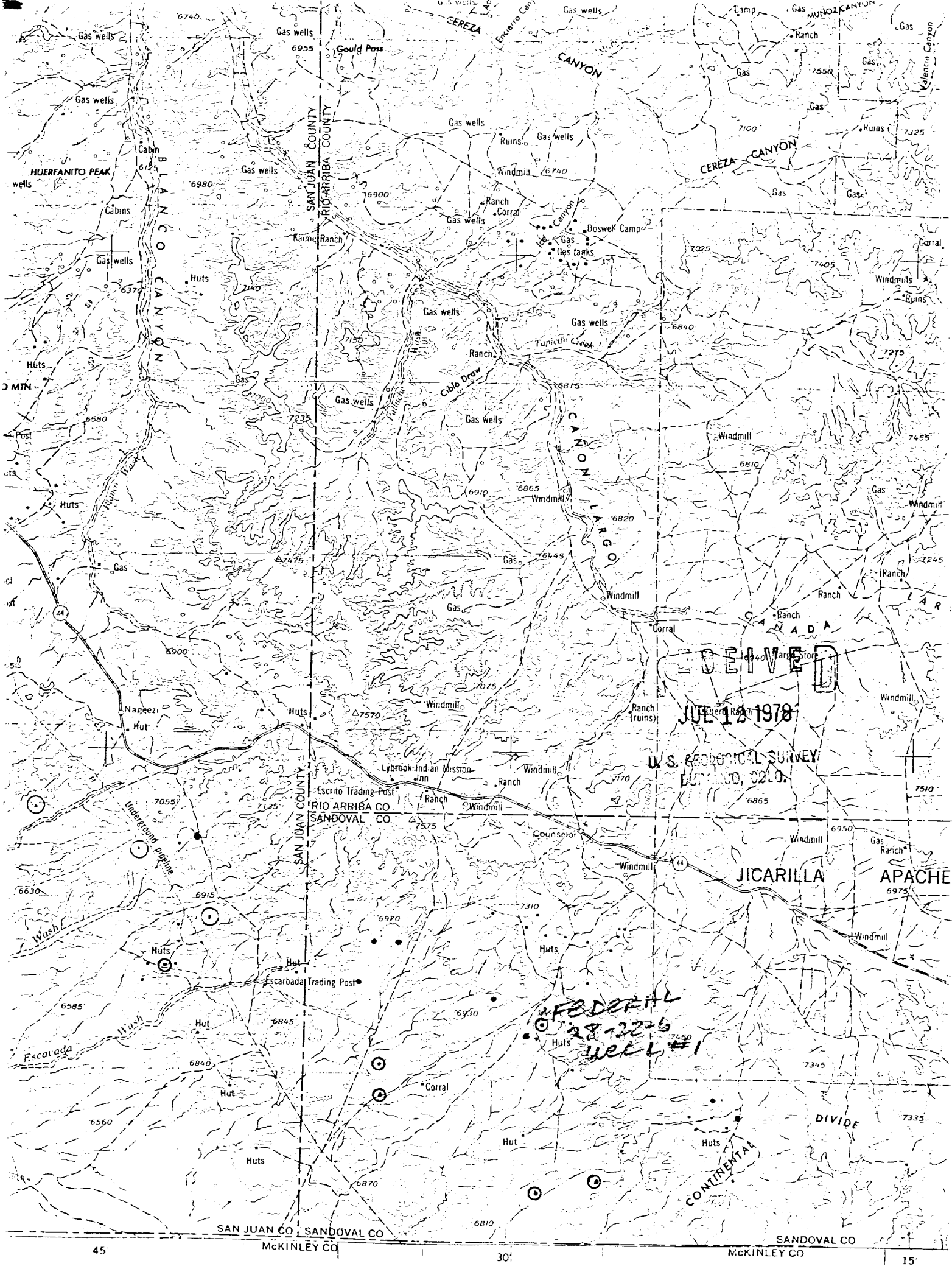
Representatives of the U.S. Geological Survey's Durango Office and Bureau of Land Management's Farmington Office will inspect the site. Cultural resources inspection will be conducted by an archaeologist from San Juan College or Salmon Ruins.

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

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LEGEND

ROAD DATA 1960

Figures in red denote approximate distances in miles between stars

LOCATED PLACES

LOS ANGELES
OMAHA
GALVESTON
Laramie
Grand Coulee
Sun Valley

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

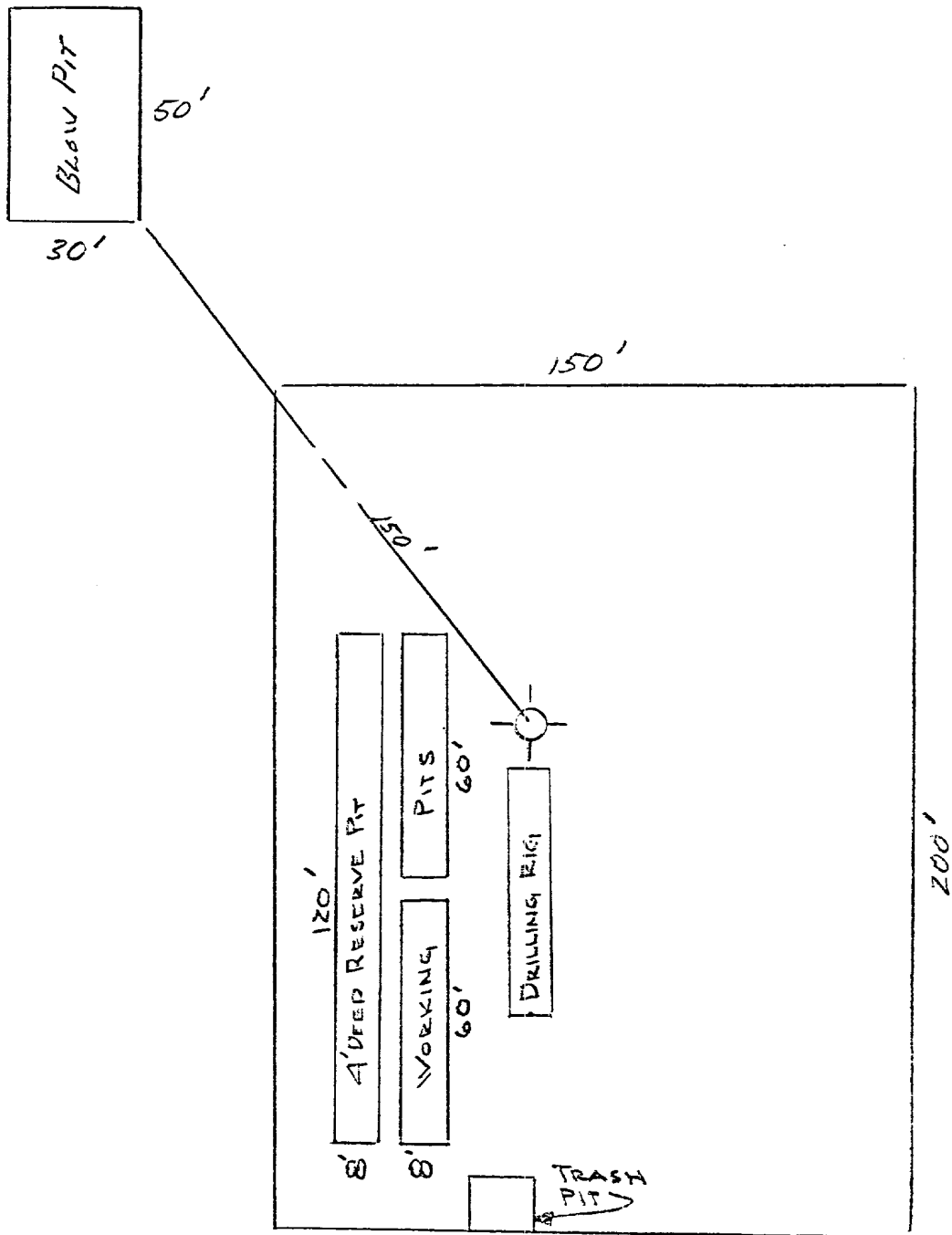
3 LANES, 4 LANES
(15)
3 LANES, 4 LANES

LANDMARKS

Standard post
Landing area
Seaplane airport
Seaplane anchorage
Woods brushwood

LANDMARKS

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



PROPOSED LOCATION
DIAGRAM

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DPT. GEO. CSLO.

Federal 28-22-6 Well #1
800' FNL & 860' FWL, Sec. 28-T22N-R6W
Sandoval Co., 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 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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REPORT OF PROOF OF APPARENT DEVIATION

Integrated Energy Inc.
~~Benson Mineral Group, Inc.~~

NM-7008

Operator _____ Lease No. _____

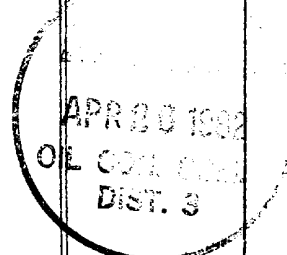
FIELD Wildcat County, ST Sandoval, NM

Lease Name & Well No. Federal 28-22-6 SEC. 28 T 22N R 6W

Degrees Deviation	Deviation Factor	DEGREES DEVIATION	DEPTH FROM SURFACE	LENGTH OF INTERVAL	DEVIATION FACTOR	DEVIATION OF INTERVAL	CUMULATIVE APPARENT DEVIATION	REMARKS
1/4	.00436							
1/4	.00873	1	500	500	.01745	8.725	8.725	
1/4	.01309							
1	.01745	1 1/2	2150	1650	.02618	43.197	51.922	
1 1/4	.02182							
1 1/4	.02618							
1 1/4	.03054							
2	.03490							
2 1/4	.03926							
2 1/4	.04362							
2 1/4	.04798							
3	.05234							
3 1/4	.05669							
3 1/4	.06105							
3 1/4	.06540							
4	.06976							
4 1/4	.07411							
4 1/4	.07846							
4 1/4	.08281							
5	.08716							
5 1/4	.09150							
5 1/4	.09585							
5 1/4	.10019							
6	.10453							
6 1/4	.10887							
6 1/4	.11320							
6 1/4	.11754							
7	.12187							
7 1/4	.12620							
7 1/4	.13053							
7 1/4	.13485							
8	.13917							
8 1/4	.14349							
8 1/4	.14781							
8 1/4	.15212							
9	.15643							
9 1/4	.16074							
9 1/4	.16505							
9 1/4	.16935							
10	.17365							

ATTEST:

F. Michael Murphy
 F. Michael Murphy, Secretary



President

Certified as Being True & Correct by _____ Title _____ Date 8-14-78

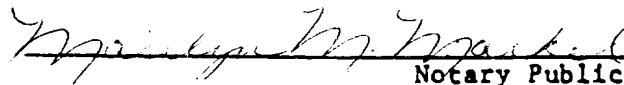
CORPORATE ACKNOWLEDGMENT

STATE OF COLORADO)
) ss.
CITY AND COUNTY OF DENVER)

On 6-30-78, before me personally came the above named
Bruce D. Benson (who being by me duly sworn did say that he is the _____ President of
Benson Mineral Group, Inc., a corporation, and that the seal affixed to said instru-
ment is the corporate seal of said corporation) who is personally known to me to be
the identical person and officer whose name is affixed to the above instrument as _____
President of said corporation, and acknowledged the instrument to be his free and
voluntary act and deed and the free and voluntary act and deed of said corporation;
that said corporation executed said instrument and that said instrument was executed,
signed and sealed on behalf of said corporation by authority of its board of
directors or by authority of its by-laws.

My Commission Expires

July 25, 1982


Notary Public

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☒ other ☐
2. NAME OF OPERATOR
Integrated Energy Inc.
3. ADDRESS OF OPERATOR
P. O. Box 61585, Houston, TX 77208-9990
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 800' FNL and ⁸⁶⁰ 806' FWL
AT TOP PROD. INTERVAL: same
AT TOTAL DEPTH: same

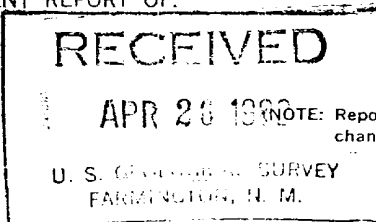
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐

SUBSEQUENT REPORT OF:

☐
☐
☐
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☐
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☐
☐
☐



5. LEASE
NM-7008
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Federal 28-22-6
9. WELL NO.
1
10. FIELD OR WILDCAT NAME
Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 28-T22N-R6W
12. COUNTY OR PARISH
Sandoval
13. STATE
NM
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD)
6957 GR

(other) change of operator

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Designation of operator filed with Minerals Management Services



Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Terence J. Casey TITLE Vice President DATE 4-20-82

(This space for Federal or State office use)

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

APR 26 1982

FARMINGTON DISTRICT

*See Instructions on Reverse Side

BY J. Keller

NMOCCA