

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-039-22503

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.

NM-11929

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Rio-Federal 35

9. WELL NO.

1-35

10. FIELD AND POOL, OR WILDCAT

Wildcat m/v

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

Section 35 T31N R4W

12. COUNTY OR PARISH 13. STATE

Rio Arriba New Mexico

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

Resources Investment Corporation

3. ADDRESS OF OPERATOR

555 17th Street, Suite 3500, Denver, Colorado

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

860' FNL 830' FWL C NW NW

At proposed prod. zone

Same as above

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

20.5 miles west from Dulce

15. DISTANCE FROM PROPOSED*

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

16. NO. OF ACRES IN LEASE

799.11

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320 / 60

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

19. PROPOSED DEPTH

6300'

20. ROTARY OR CABLE TOOLS

Rotary

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

6964 GR

22. APPROX. DATE WORK WILL START*

Upon approval

23.

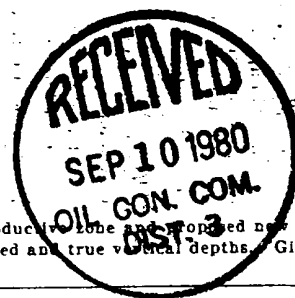
PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/2"	9-5/8"	36#	0-300'	150 sx Class "B" + 2% CaCl ₂
8-3/4"	7"	20#	0-3900'	To be determined
6-1/4"	4-1/2"	10.5#	0-6300'	To be determined

Operator expects to encounter hydro-carbons in the Mesa Verde at approximately 6300'. If productive, 4 1/2" casing will be set and cemented and a completion will be attempted.

If non-productive, the hole will be plugged and abandoned in a prudent manner consistent with Federal and State regulations.

See attached NTL-6 for schedules.



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

TITLE

Dist. Drilling & Prod. Mgr.

DATE

8/22/80

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

add 6/64 - prod

*See Instructions On Reverse Side

RESOURCES INVESTMENT CORPORATION
 RIO-FEDERAL 1-35
 C NW NW SECTION 35 T31N R4W
 RIO ARRIBA COUNTY, NEW MEXICO

10 POINT OPERATIONAL PLAN

- I. The geologic name of the surface formation is San Jose.
- II. The estimated tops of important geologic markers are:

Picture Cliffs	3620'
Lewis	3710'
Mesa Verde	5650'

- III. Operator expects to encounter hydrocarbons in the Mesa Verde at approximately 6300'. No other formations are expected to give up oil, gas or water in measurable quantities.

- IV. The proposed casing program (all new).

Surface Casing

<u>Depth</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Thread</u>	<u>Coupling</u>
0-300'	9-5/8"	36#	K-55	8 round	S T & C

Intermediate Casing

<u>Depth</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Thread</u>	<u>Coupling</u>
0-3900'	7"	20#	K-55	8 round	S T & C

Production Casing

<u>Depth</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Thread</u>	<u>Coupling</u>
6300'	4-1/2"	10.5#	K-55	8 round	S T & C

- IVA. Proposed cementing program:

150 sx Class "B" + 2% CaCl₂

- V. Operators minimum requirements for pressure control equipment:

<u>Depth</u>	<u>Size</u>	<u>Series</u>	<u>Type</u>	<u>Rams</u>
1000'-TD	10"	900	Double Gate	Pipe and C.S.O.
1000'-TD	10"	900	Bag Type	

Note: A choke manifold is required with equivalent pressure rating as B.O.P. prior to drilling out shoe. Test casing to 70% of internal yield, test pipe and blind rams to rated working pressure 15 minutes. Test choke manifold to rated working pressure for 15 minutes. Test B.O.P.E. each 30 days thereafter. Cycle pipe rams daily and C.S.O. rams when out of hole. Note on tour report book.

- VI. The proposed drilling fluid program:

<u>Depth</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
0-300'	Gel-Lime	8.6-9.0 lb/gal	35	N/C
300-3910'	Low solids	9.5 lb/gas	35	10-15
	Non-dispersed	N/A		
3910'-TD	Air			

VII. Auxillary Equipment

- 1) Kelly Cock
- 2) Bit floats will be available
- 3) Full opening floor valve with proper threads
- 4) Mud systems will be monitored visually.

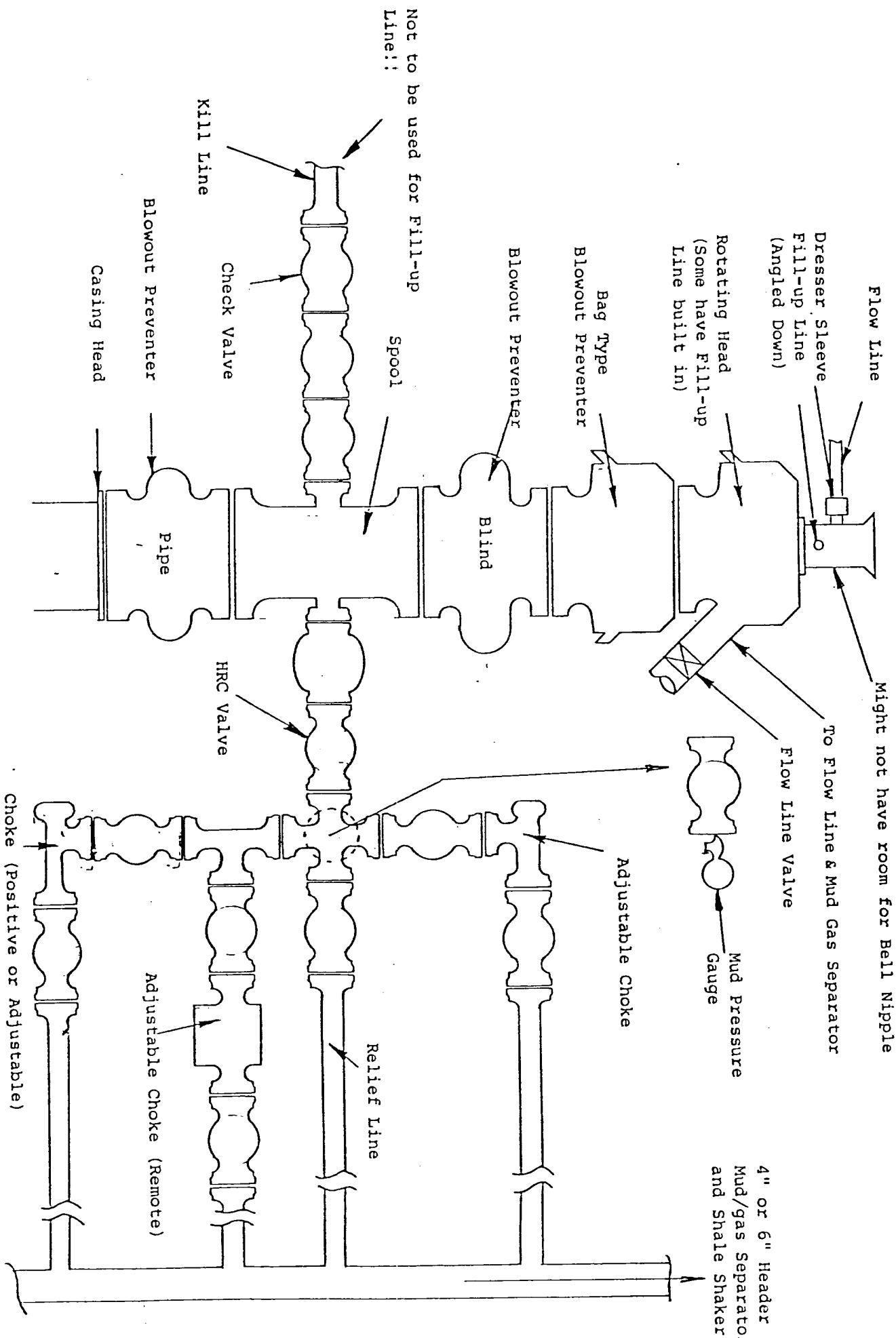
VIII. Drill stem tests will be taken based on shows, no cores are planned. The logging program will consist of DIL, CNL, BHC/Sonic/Caliper. The proposed completion program is:

- 1) MICR
- 2) Log CBL-PDC
- 3) Pick up tubing
- 4) Perforate productive interval
- 5) Test
- 6) Treat formation as necessary. No hydraulic fracturing with hydrocarbons is planned. However, should this change, the wellbore, fluid tanks and pumping equipment will be a minimum of 120 feet apart.

IX. No abnormal pressures or temperatures are expected. No hydrogen sulfide is anticipated. No problems are foreseen.

X. The anticipated starting date is upon approval of permits. An estimated 21 days will be required for operations.

With Bag Type Preventer & Rotating Head



RESOURCES INVESTMENT CORPORATION
RIO-FEDERAL 1-35
C NW NW SECTION 35 T31N R4W
RIO ARriba COUNTY, NEW MEXICO

13 POINT SURFACE USE PLAN

I. Existing Roads

- A. Refer to Highway and Topographic maps
- B. From Dulce, New Mexico proceed west on Highway 64 20.5 miles to Forest Service Road 310. Proceed north 15 miles to proposed access road. South on proposed access road approximately 300 yards to location.
- C. Refer to Highway and Topographic maps
- D. Refer to Highway and Topographic maps
- E. Refer to Highway and Topographic maps
- F. Roads will be maintained as necessary to permit travel.

II. Planned Access Road (30 yards approximately)

- 1) Maximum width will be 16 feet.
- 2) Maximum grade is 7%.
- 3) No turnouts are required.
- 4) Drainage design will conform with existing drainage for the area.
- 5) No major cuts or fills are required. No culverts are needed.
- 6) No surfacing material is required.
- 7) No fence cuts or cattleguards will be required.
- 8) Planned access road is centerline flagged.

III. Location of Existing Wells (see development map)

1) Water wells	0
2) Abandoned wells	0
3) Temporarily abandoned wells	0
4) Disposal wells	0
5) Drilling wells	1
6) Producing wells	2
7) Shut-in wells	0
8) Injection wells	0
9) Monitoring wells	0

IV. Location of Existing and/or Proposed Facilities

- A. There are no existing facilities owned or controlled by operator.
- B. Contemplated facilities in the event of production:
 - 1) Proposed production facilities will be located on the drilling location.
 - 2) Proposed facilities will require approximately 200' x 200'.
 - 3) The tank battery, if needed, will be constructed using a bulldozer to level the site; backhoes to dig trenches and bury lines; pole trucks, floats and roustabout crews to maneuver equipment. Construction materials will consist of surface soil, sand and gravel as required.
 - 4) With regard to protecting livestock and wildlife, the reserve pit will be fenced. The treater and/or dehydrator will be enclosed and surrounded by a dyke.
- C. Rehabilitation Plan
Areas disturbed, but no longer needed for operations will be bladed to the approximate original contour and re-seeded with a seed mixture as required by the Carson National Forest Service. Stockpiled topsoil will be distributed over the area.

13 Point Surface Use Plan, Page 3

XII. Operators Representative

The Operators representative responsible for compliance with the surface use plan is:

Resources Investment Corporation
555 17th Street
Suite 3500
Anaconda Tower
Denver, Colorado 80202
Marv Isaacson

XIII. 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 herein are, to the best of my knowledge, true and correct; that the work associated with the operations proposed herein will be performed by Resources Investment Corporation and its contractors and subcontractors in conformity with this plan and the terms under which it is approved.

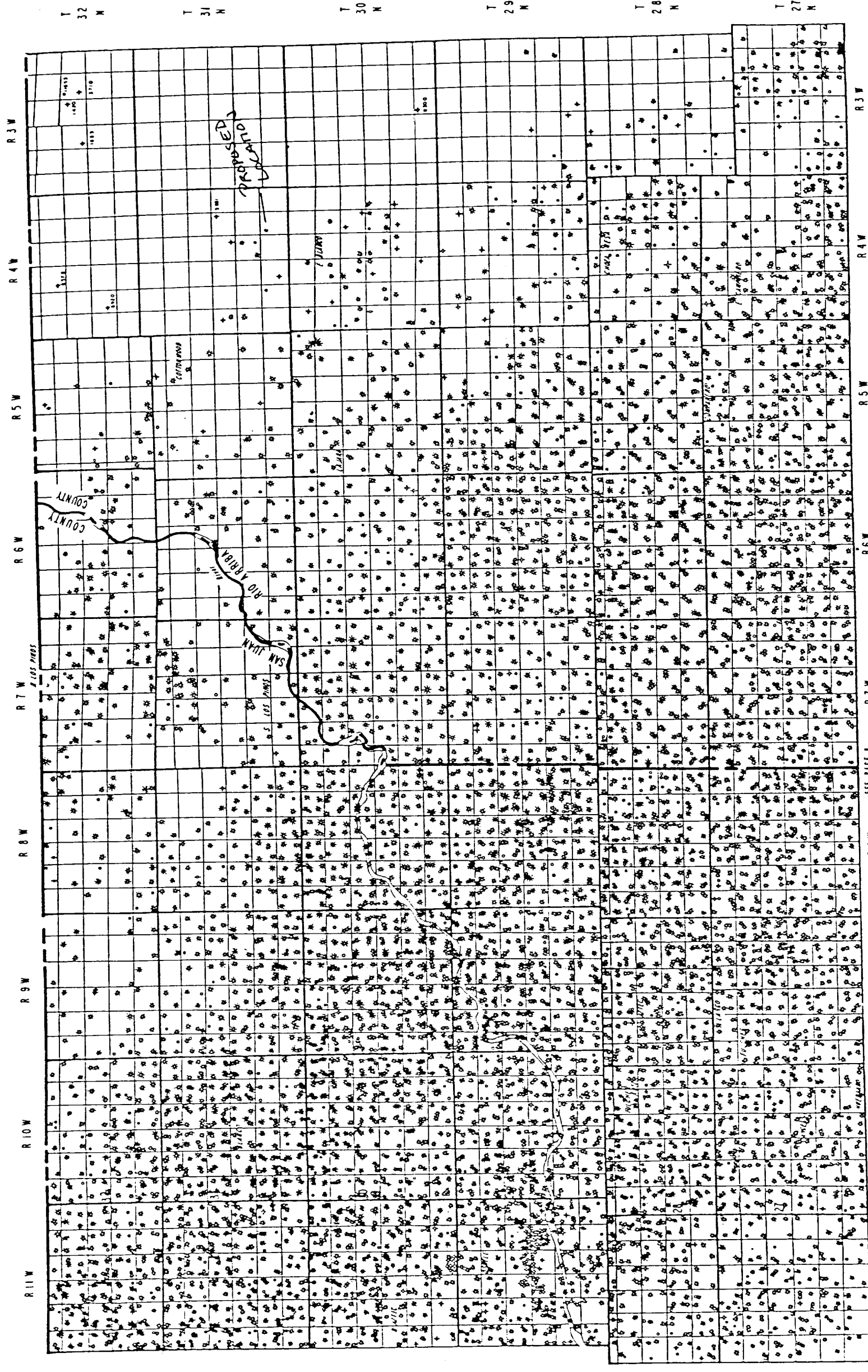
RESOURCES INVESTMENT CORPORATION

Date: August 22, 1980

By:



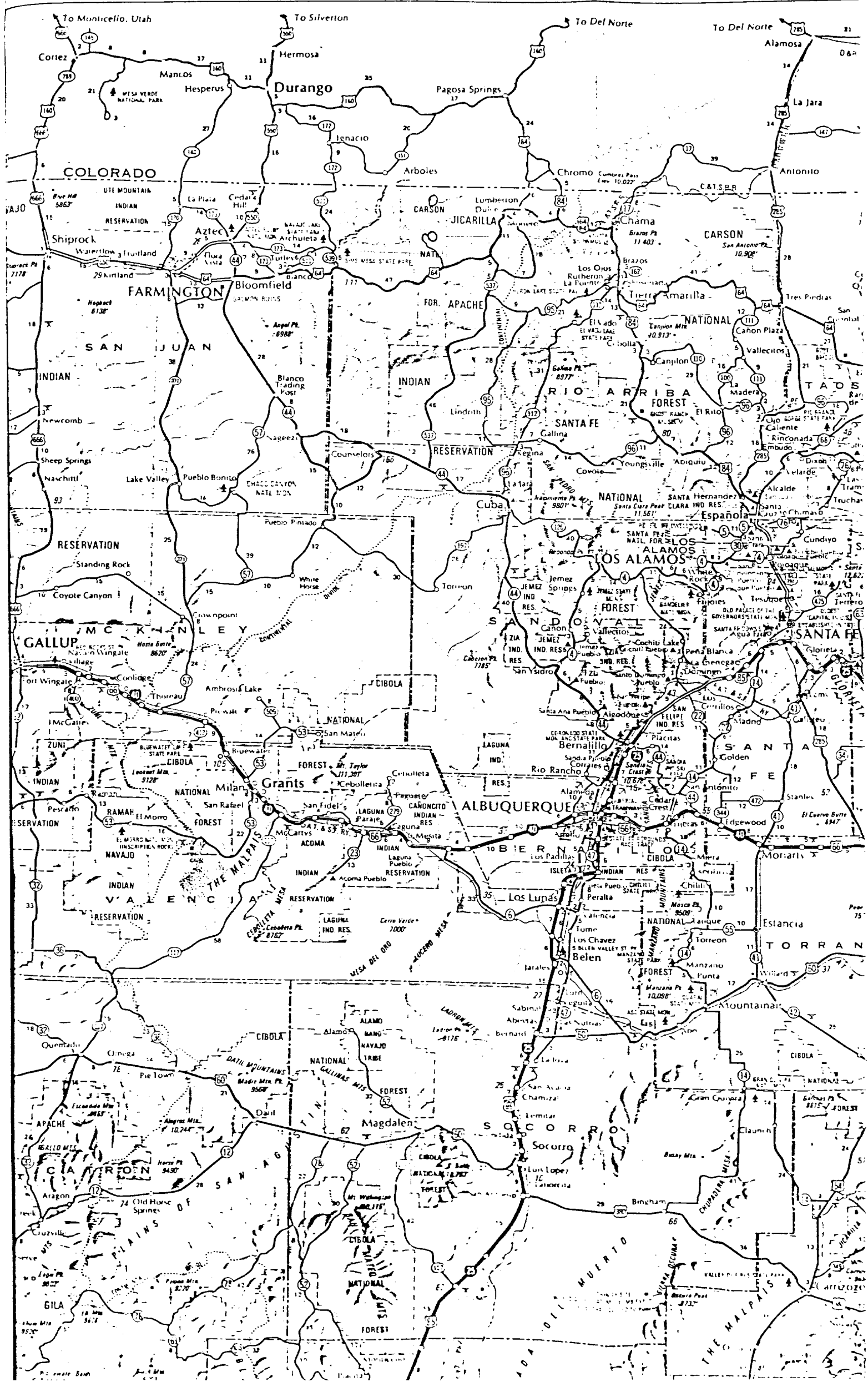
District Drilling & Production Manager



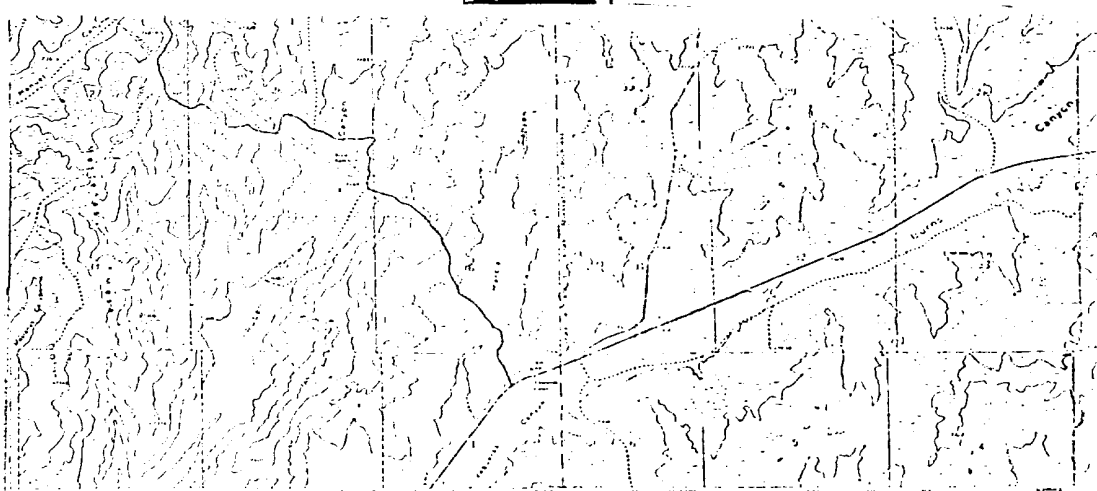
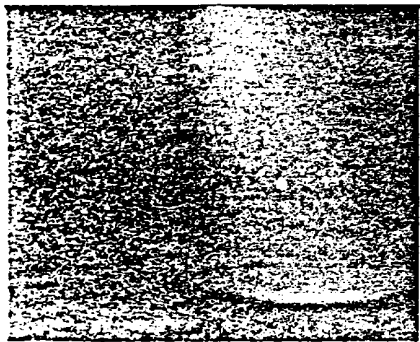
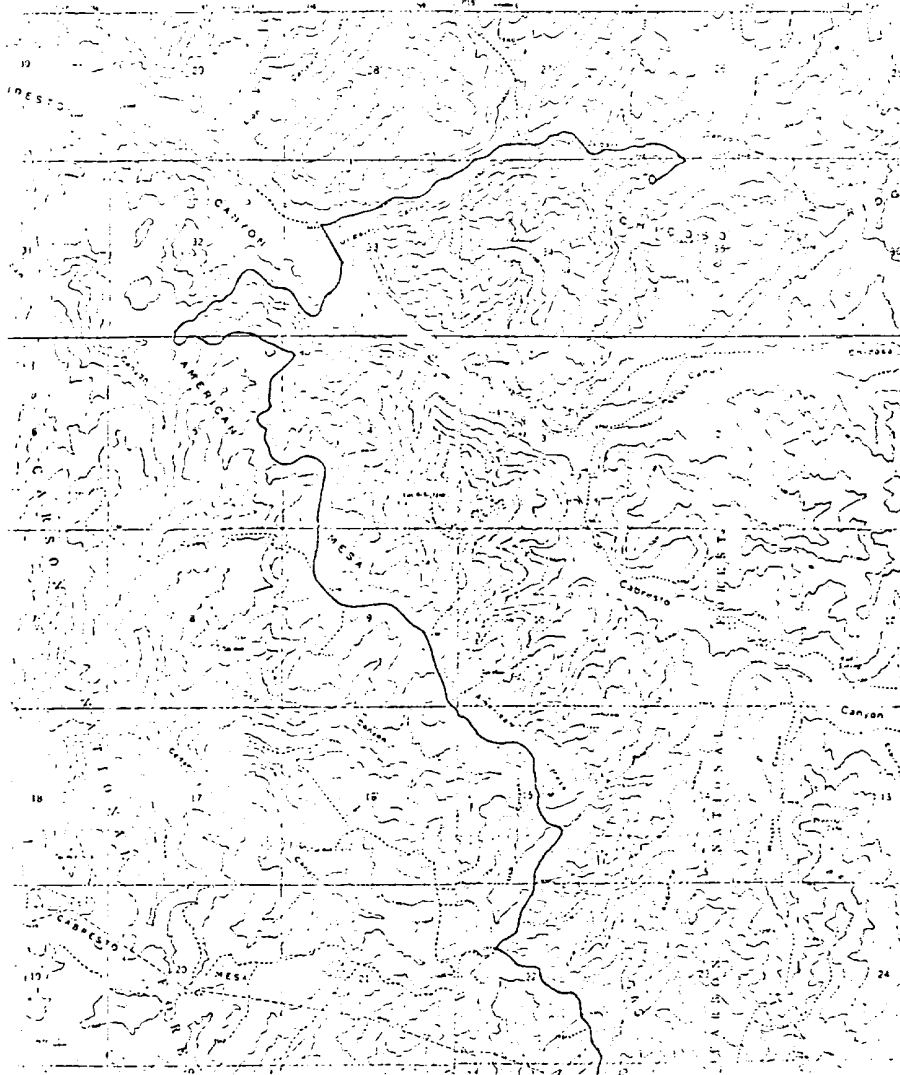
T 32 N
T 31 N
T 30 N
T 29 N
T 28 N
T 27 N

R 3W
R 4W
R 5W
R 6W
R 7W
R 8W
R 9W
R 10W
R 11W

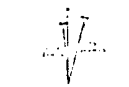
SEE PAGE 1
DAY
CON



U.S. GEOLOGICAL SURVEY
 DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY



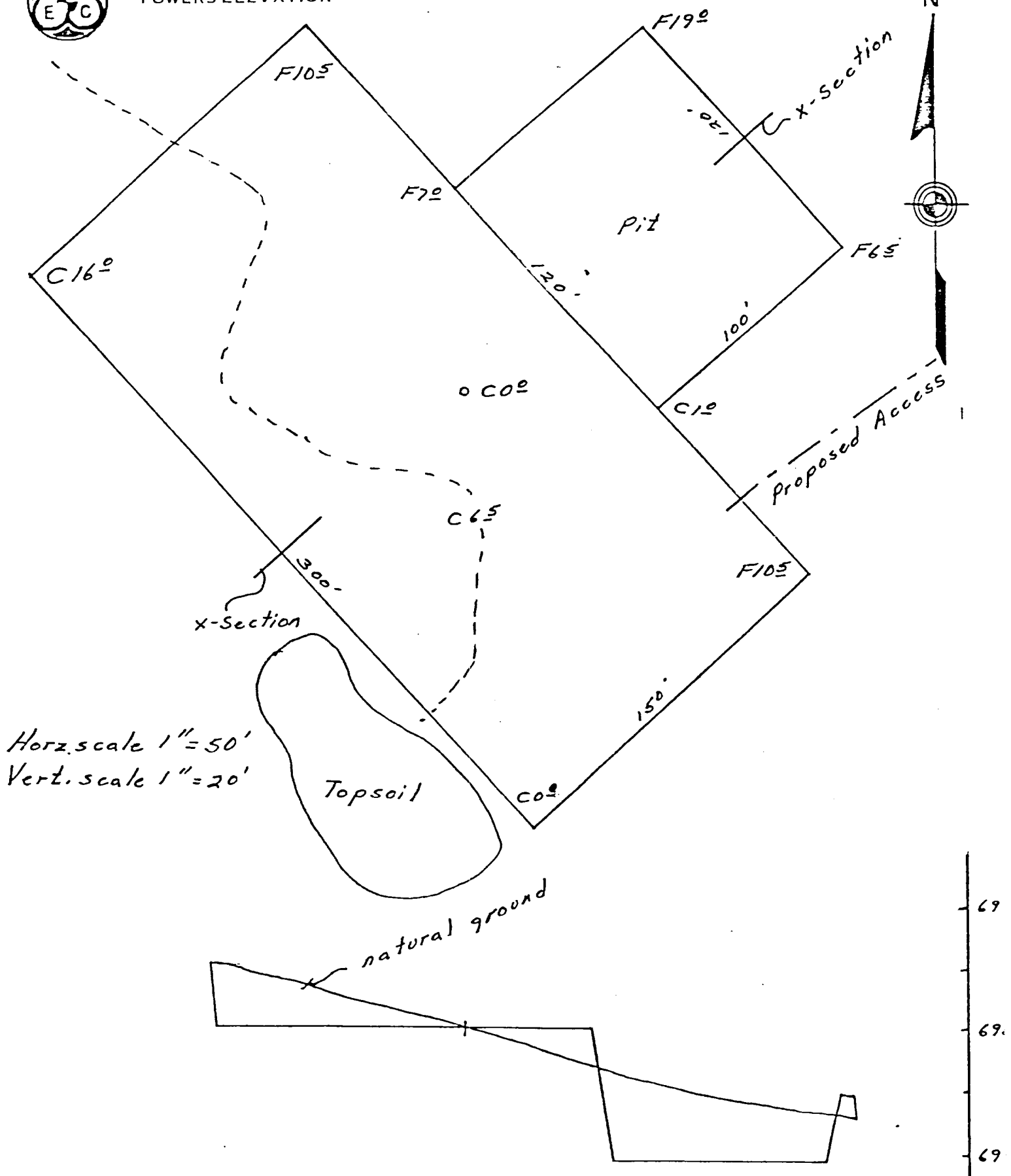
This map is a reproduction of the original map of the American Canyon area, California, U.S.A., published by the U.S. Geological Survey, Department of the Interior, in 1908. It is a topographic map showing the American River, the American Canyon, and the surrounding area. The map is oriented with North at the top.

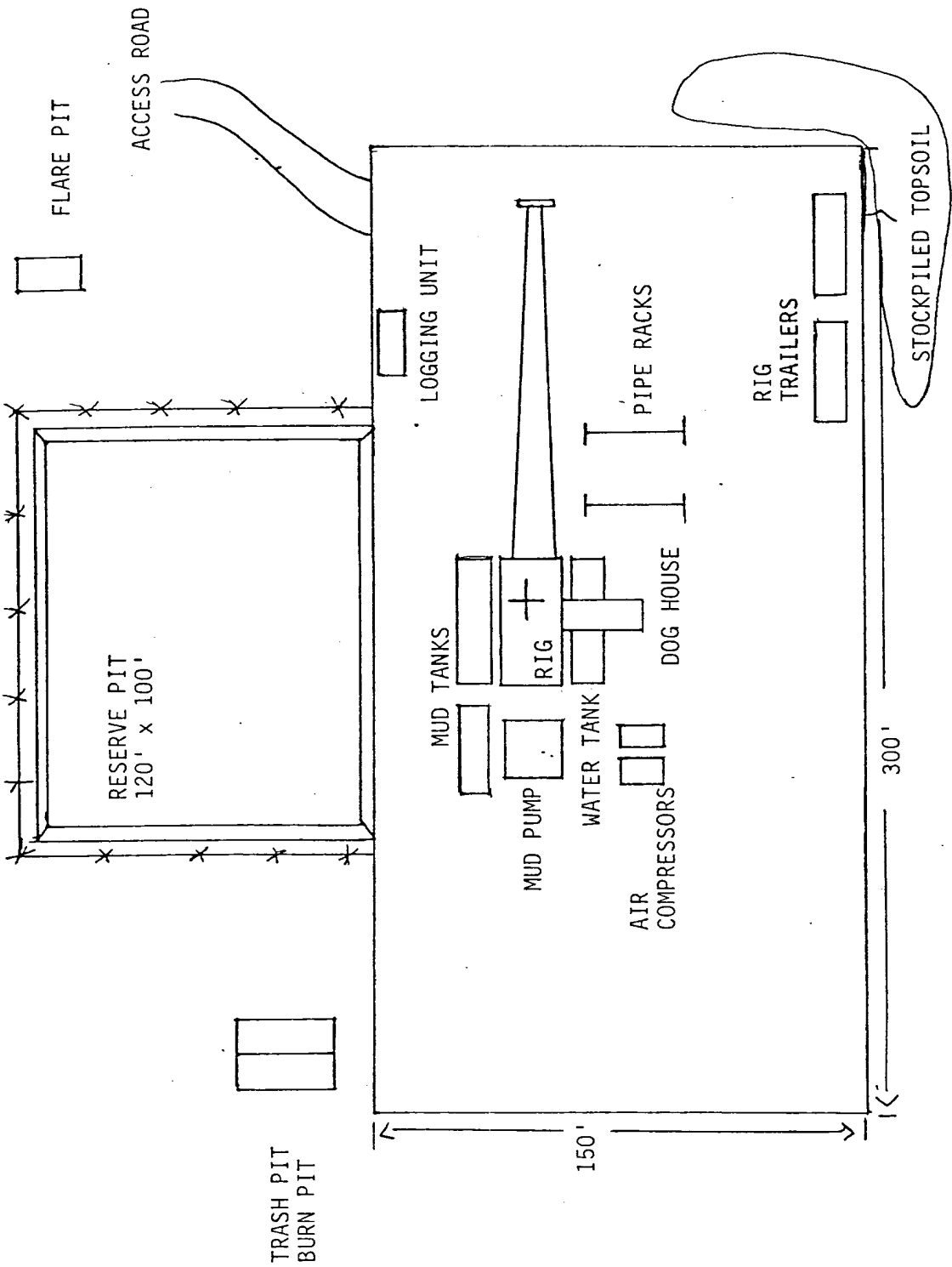
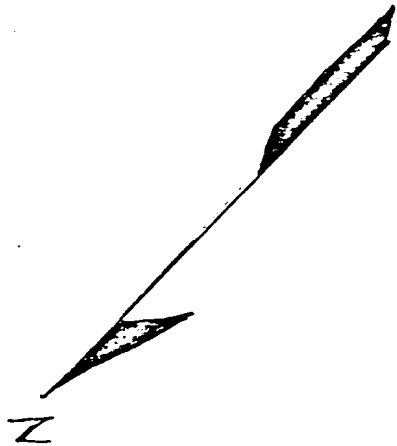


This map is a reproduction of the original map of the American Canyon area, California, U.S.A., published by the U.S. Geological Survey, Department of the Interior, in 1908. It is a topographic map showing the American River, the American Canyon, and the surrounding area. The map is oriented with North at the top.



POWERS ELEVATION

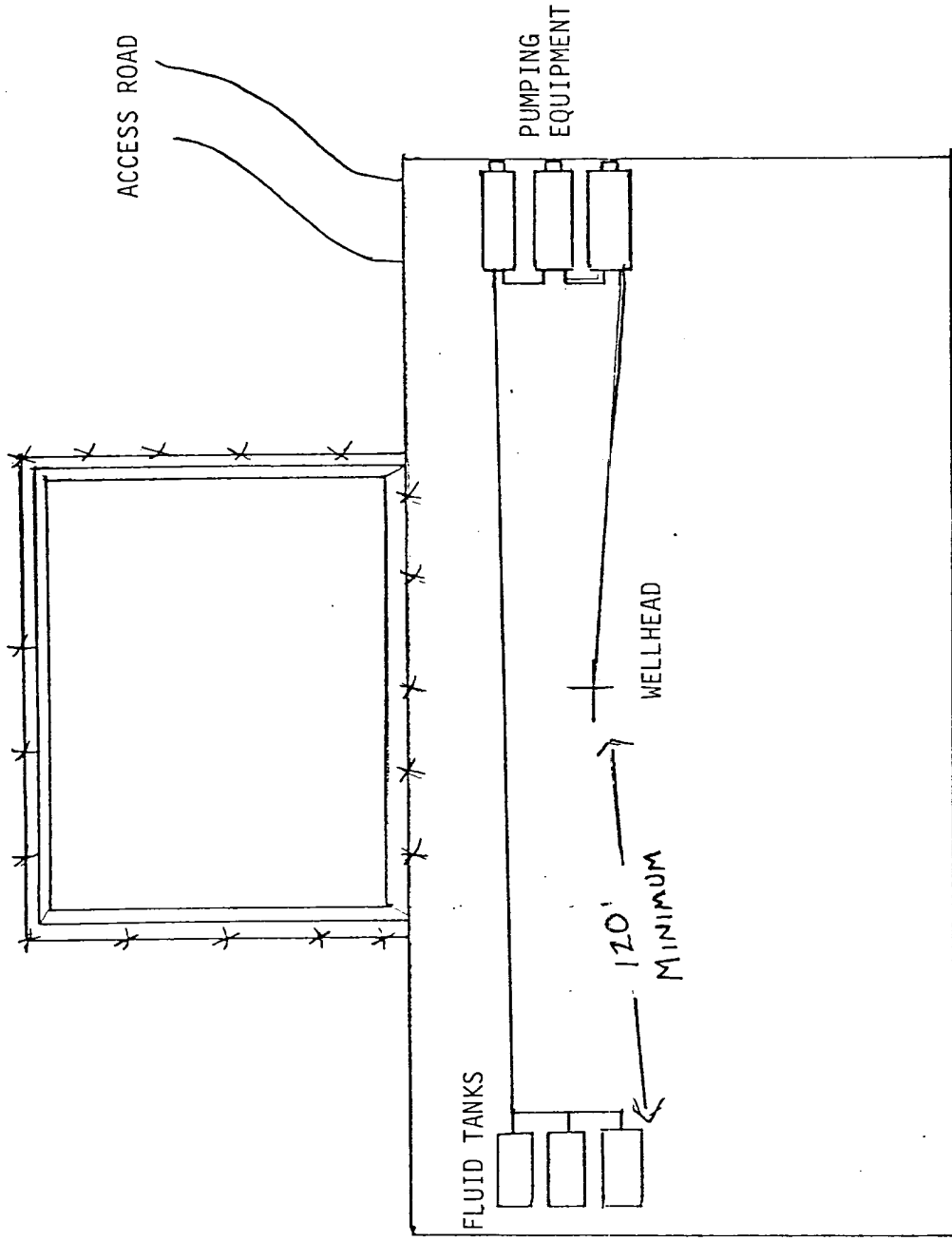




RIG LAYOUT

RESOURCES INVESTMENT
Rio-Federal 1-35
Rio Arriba County, New Mexico



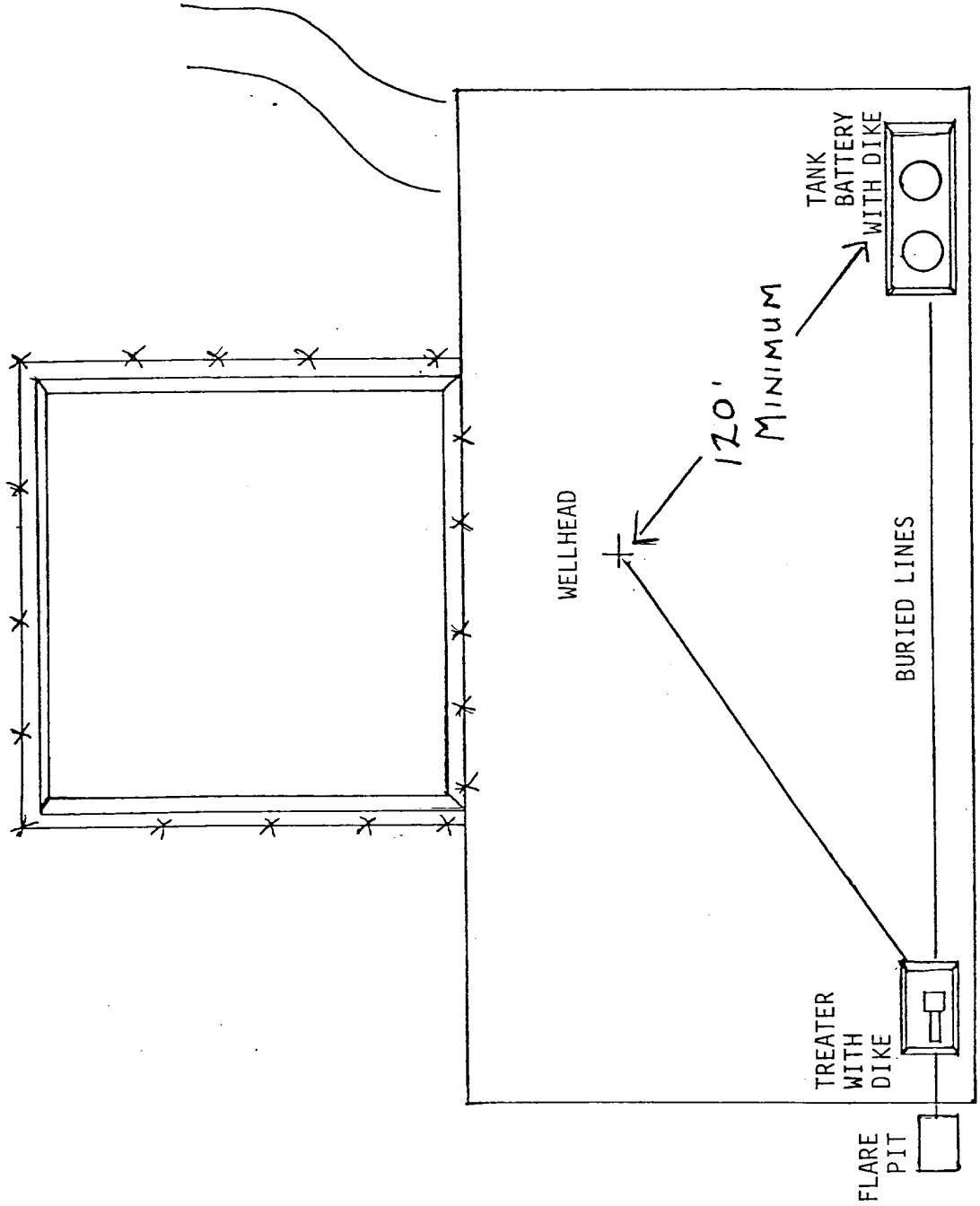


FRACTURING LAYOUT

RESOURCES INVESTMENT

Rio-Federal 1-35

Rio Arriba County, New Mexico



PRODUCTION FACILITIES

RESOURCES INVESTMENT

Rio-Federal 1-35

Rio Arriba County, New Mexico