

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-015-24099

C/SF
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

RALPH NIX ✓

(Phone 746-2341)

RECEIVED

3. ADDRESS OF OPERATOR

P. O. Box 617, Artesia, New Mexico 88210

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

At surface

1880' FSL & 1980' FEL of Sec. 13-18S-23E

At proposed prod. zone

same

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

7 air miles southeast of Hope, N. M.

15. DISTANCE FROM PROPOSED*

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

1980'

16. NO. OF ACRES IN LEASE

1400

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

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

NA

19. PROPOSED DEPTH

1000' San Andres

20. ROTARY OR CABLE TOOLS

Rotary*

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

3832' G.L.

22. APPROX. DATE WORK WILL START*

2-25-82

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	48#	300'	Circulate to surface
7 7/8"	5 1/2"	13#	1000'	Circulate to surface

After setting and cementing production string, pay zones will be perforated and stimulated as needed for production.

Attached are: 1. Well Location & Acreage Dedication Plat
2. Supplemental Drilling Data.
3. Surface Use Plan.

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FEB 11 1982OIL & GAS
U.S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

* If rotary rig is not available, well may be drilled with cable tools.

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

Ralph Nix

TITLE

Owner

DATE

2-9-82

(This space for Federal or State office use)

PERMIT NO.

APPROVED

APPROVED BY

CONDITIONS OF APPROVAL

FEB 23 1982

JAMES A. GILLHAM
DISTRICT SUPERVISOR

TITLE

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

DATE

Filed ID-1
API + M Book
2-26-82

*See Instructions On Reverse Side

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

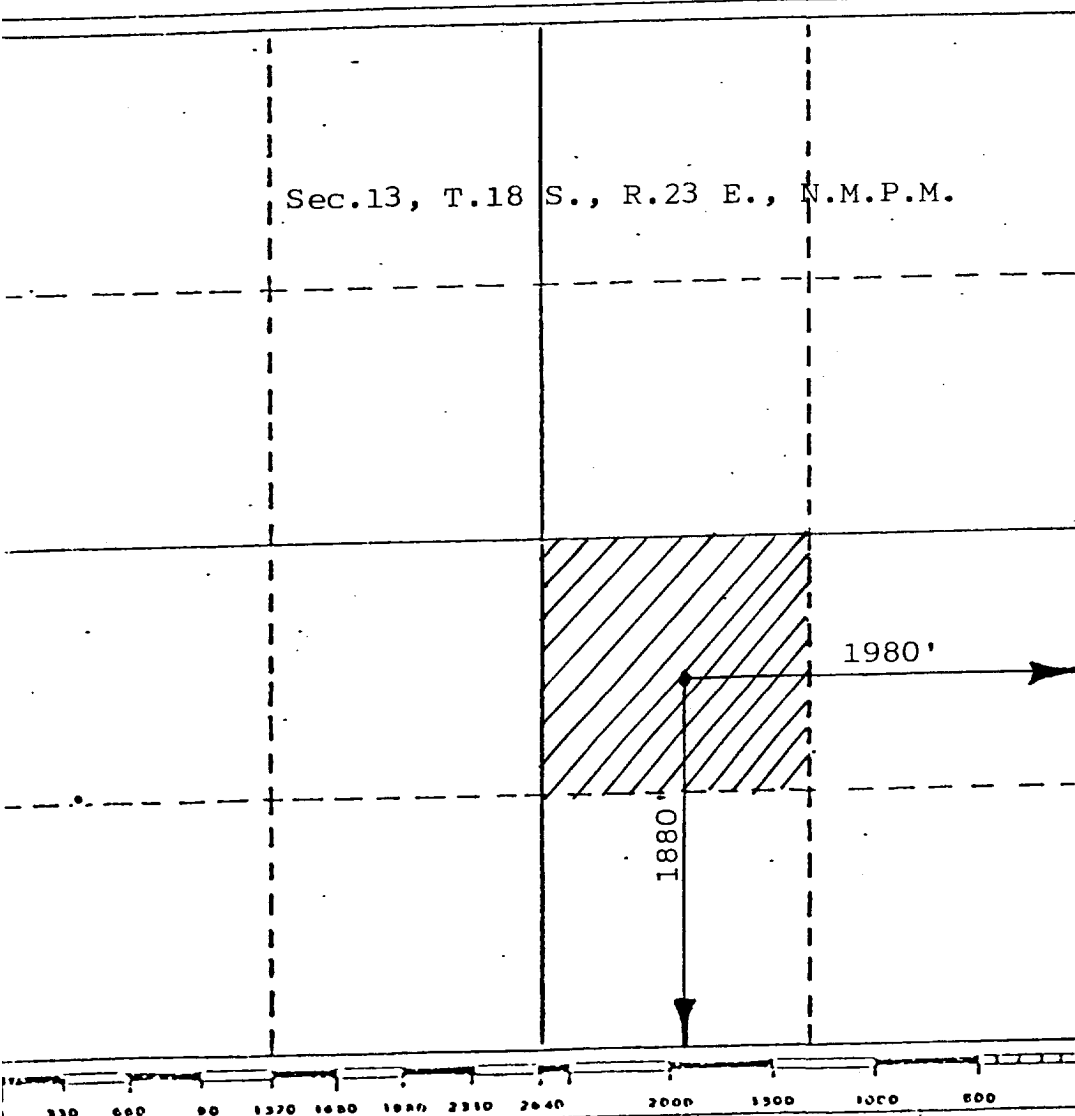
Operator Ralph Nix		Lease Ralph Nix Annamarie Fed.		Well No. #1
Well Letter J	Section 13	Township 18 South	Range 23 East	County Eddy
Actual Footage Location of Well: 1980 feet from the East line and 1880 feet from the South line				
Ground Level Elev. 3832	Producing Formation San Andres		Pool Wildcat	Dedicated Acreage: 40.0 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 Division.



CERTIFICATION

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

Name

Ralph Nix

Position

Company

Date

February 10, 1982

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

February 10, 1982

Registered Professional Engineer and/or Land Surveyor

John D. Jaquess, P.E. & L.S.

Certificate No.

6290

SUPPLEMENTAL DRILLING DATA

RALPH NIX
WELL #1 ANNAMARIE FEDERAL
NW $\frac{1}{4}$ SE $\frac{1}{4}$ SEC. 13-18S-23E

1. SURFACE FORMATION: Alluvium soils of Quaternary Age.
2. ESTIMATED TOPS OF GEOLOGIC MARKERS: San Andres, 200'.
3. ANTICIPATED POROSITY ZONES:

Water	Lower Grayburg & Upper San Andres
Oil	900-1000'

4. CASING DESIGN:

<u>Size</u>	<u>Interval</u>	<u>Weight</u>	<u>Grade</u>	<u>Joint</u>	<u>Condition</u>
13 3/8"	0 - 300'	48#	K-55	STC	New
5 1/2"	0 - 1000'	13#	K-55	STC	New

5. PRESSURE CONTROL EQUIPMENT: Series 900 Rotating Drilling Head.
6. CIRCULATING MEDIUM: Will be drilled with air.
7. AUXILLARY EQUIPMENT: Will use check valves in drill stem.
8. TESTING, LOGGING AND CORING PROGRAMS:

DST's:	None planned.
Coring:	None planned.
Logging:	Gamma Ray Log.
9. ABNORMAL PRESSURES, TEMPERATURES OR GASES: None anticipated.
10. ANTICIPATED DATES:
 - A. Road and pad construction: February 15, 1982
 - B. Spudding well: February 25, 1982
 - C. Duration of drilling, completion and testing operations should be 5 to 30 days.

ROAD LOG TO PROPOSED DRILLSITE

STARTING POINT is 5 miles south of Artesia, N.M. at the intersection of US-285 and county road Eddy-39. This point is at milepost - 62.95.

- 0.00 Turn west on paved county road E-39 and go 4.0 miles.
- 4.00 Turn left (southwest) on ranch road and go 2.14 miles to the 4-Dinkus ranch house.
- 6.14 Continue due west and proceed in a west-northwesterly direction for a distance of 4.30 miles.
- 10.44 Turn left (south) and proceed in a southwesterly direction for a distance of 1.45 miles.
- 11.89 Turn right (southwest) and proceed in a southwesterly and northwesterly direction for a distance of 3.60 miles to gate in road.
- 15.49 Turn right (north) and go 0.30 mile.
- 15.79 Bear to left through cattleguard and continue in a northerly direction for a distance of 0.49 mile.
- 16.28 New Road starts at this point. Turn left (west) and proceed in a west-northwesterly direction for a distance of 0.91 mile to the southwest corner of the proposed drillsite.
- 17.19 PROPOSED DRILLSITE (Well #1 Annamarie Federal)

THIRTEEN POINT PROGRAM

1. EXISTING ROADS: Existing roads, which lead to the proposed drillsite, are shown on Exhibits "A" & "B".
2. PROPOSED NEW ROAD: Proposed new access road will be 0.91 mile in length. Exhibit "B" shows proposed route which will originate at mileage 16.28 on the road log and will terminate at the southeast corner of the proposed drill pad. The center of the proposed new road has been staked and flagged.
 - A. Width: 15 feet with 20-foot R-O-W.

- B. Surfacing Material: The new road will not be surfaced.
 - C. Maximum Grade: Less than one percent.
 - D. Turnouts: None necessary.
 - E. Road Design: New road will be constructed by blading the proposed right-of-way.
 - F. Culverts: None necessary.
 - G. Gates, Cattleguards: None necessary in new road. A cattleguard will be installed in the north-south fence at mileage - 15.79.
3. LOCATION OF EXISTING WELLS: Existing wells in the vicinity of the proposed drillsite are shown on Exhibit "C".
4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:
- A. NM-14979 is a non-producing lease and there are no production facilities on the leasehold.
 - B. If the well is productive, production and storage facilities will be located on well pad.
5. LOCATION AND TYPE OF WATER SUPPLY: It is not planned to drill a water supply well. Water for leasehold operations will be purchased from a commercial source and trucked to the location.
6. SOURCE OF CONSTRUCTION MATERIALS: Material for construction of the proposed well pad will be obtained from road cut at mileage - 16.28 which is on state land in the NE/NW 19-18S, 24E.
7. METHODS OF HANDLING WASTE DISPOSAL:
- A. Drill cuttings will be disposed of in the drilling pits.
 - B. Drilling fluids will be allowed to evaporate in the drilling pits until the pits are dry.
 - C. Water produced during tests will be disposed of in the drilling pits.
 - D. Oil produced during tests will be produced into temporary test tanks.
 - E. Trash, waste paper, garbage, and junk will be buried in a trash pit and covered with a minimum of 24 inches of dirt. All waste material will be contained to prevent scattering by the wind. Location of the trash pit is shown on Exhibit "D".
 - F. All trash and debris will be buried or removed from the wellsite within 30 days after finishing each drilling and/or completion operation.

8. ANCILLARY FACILITIES: None anticipated.
9. WELLSITE LAYOUT:
 - A. The wellsite has been surveyed and a 400' x 500' area has been staked and flagged.
 - B. The dimensions and relative location of the drill pad, mud pit, and trash pit with respect to the well bore are shown on Exhibit "D".
 - C. The location is nearly level and will not need any cut or fill.
 - D. The well pad will be surfaced with caliche.
10. PLANS FOR RESTORATION OF THE SURFACE:
 - A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location cleaned of all trash and junk to level the wellsite in as aesthetically pleasing condition as possible.
 - B. Any unguarded pits containing fluids will be fenced until they are filled.
 - C. After abandonment, all equipment, trash and junk will be removed and the location cleaned. Any special rehabilitation and/or special revegetation requirements of the BLM will be complied with and accomplished as expeditiously as possible.
11. OTHER INFORMATION:
 - A. Topography: The undisturbed wellsite is at an elevation of 3832 feet and the surface of the location is nearly flat.
 - B. Soil: Top soil at the wellsite is sandy loam.
 - C. Land Type & Use: The vicinity surrounding the drillsite is semi-arid rangeland and its primary use is for grazing.
 - D. Flora: Vegetative cover is sparse. Flora consists primarily of range grasses and broomweed interspersed with javalena bush.
 - E. Fauna: No wildlife was observed, however fauna for this type of habitat normally consists of rabbits, rodents, coyotes, skunks, lizards, snakes, quail, dove, and other small birds.

Ponds & Streams: Rio Penasco is 1/8 mile to northwest.

Water Wells: Nearest water well is one mile to the northeast.

Residence & Other Structures: Nearest occupied dwelling is 3 miles to the northwest.

Archaeological, Historical & Cultural Sites: Agency for Conservation Archaeology of Portales, N.M. is making a survey of the proposed drillsite and new road areas.

12. OPERATOR'S REPRESENTATIVE: Representative responsible for assuring compliance with the approved Surface Use Plan:

Ralph Nix Jr.
7th & Main
Artesia, N.M. 88210
Phone: 746-2341

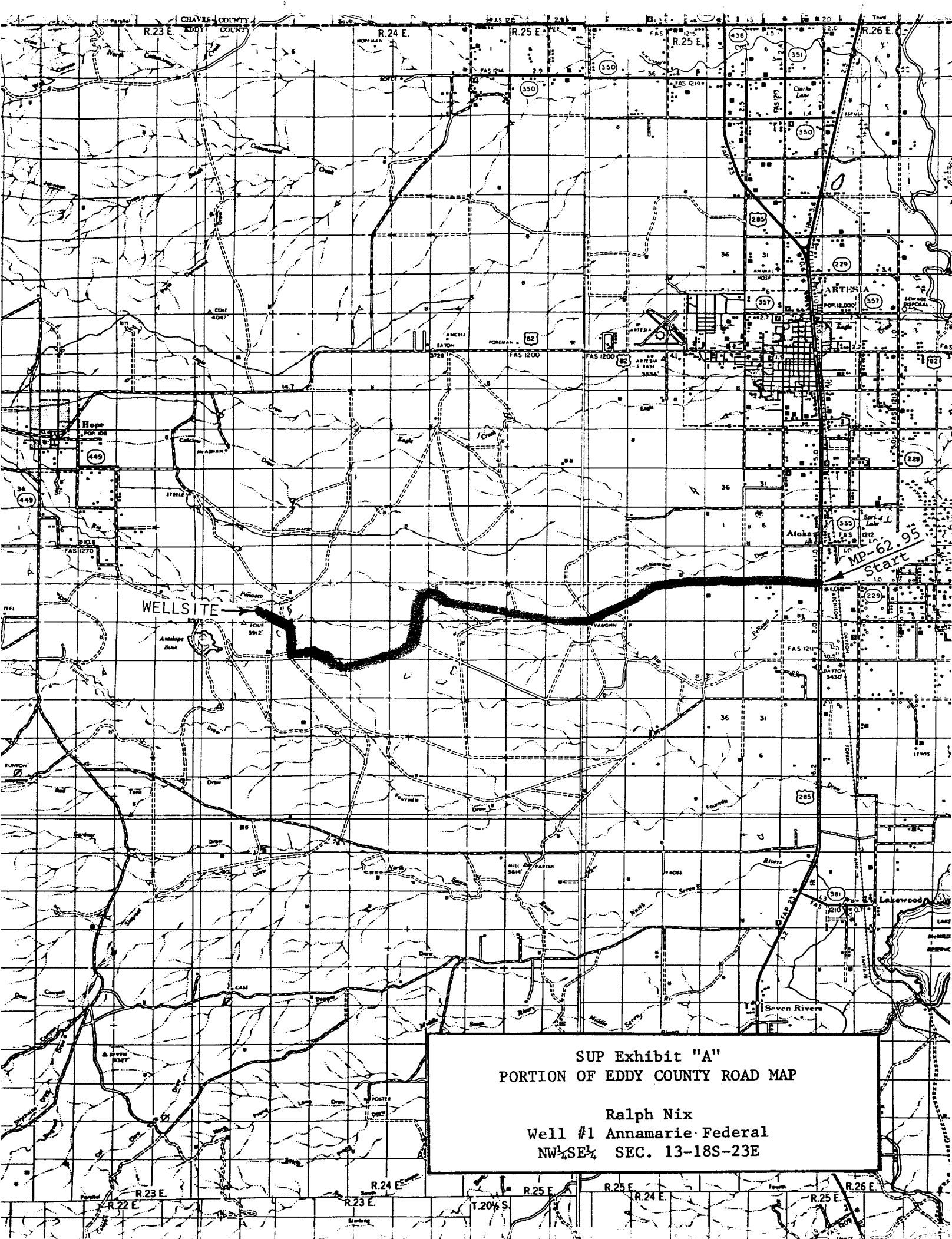
13. CERTIFICATION:

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 Ralph Nix and his sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

FEB 10 1982

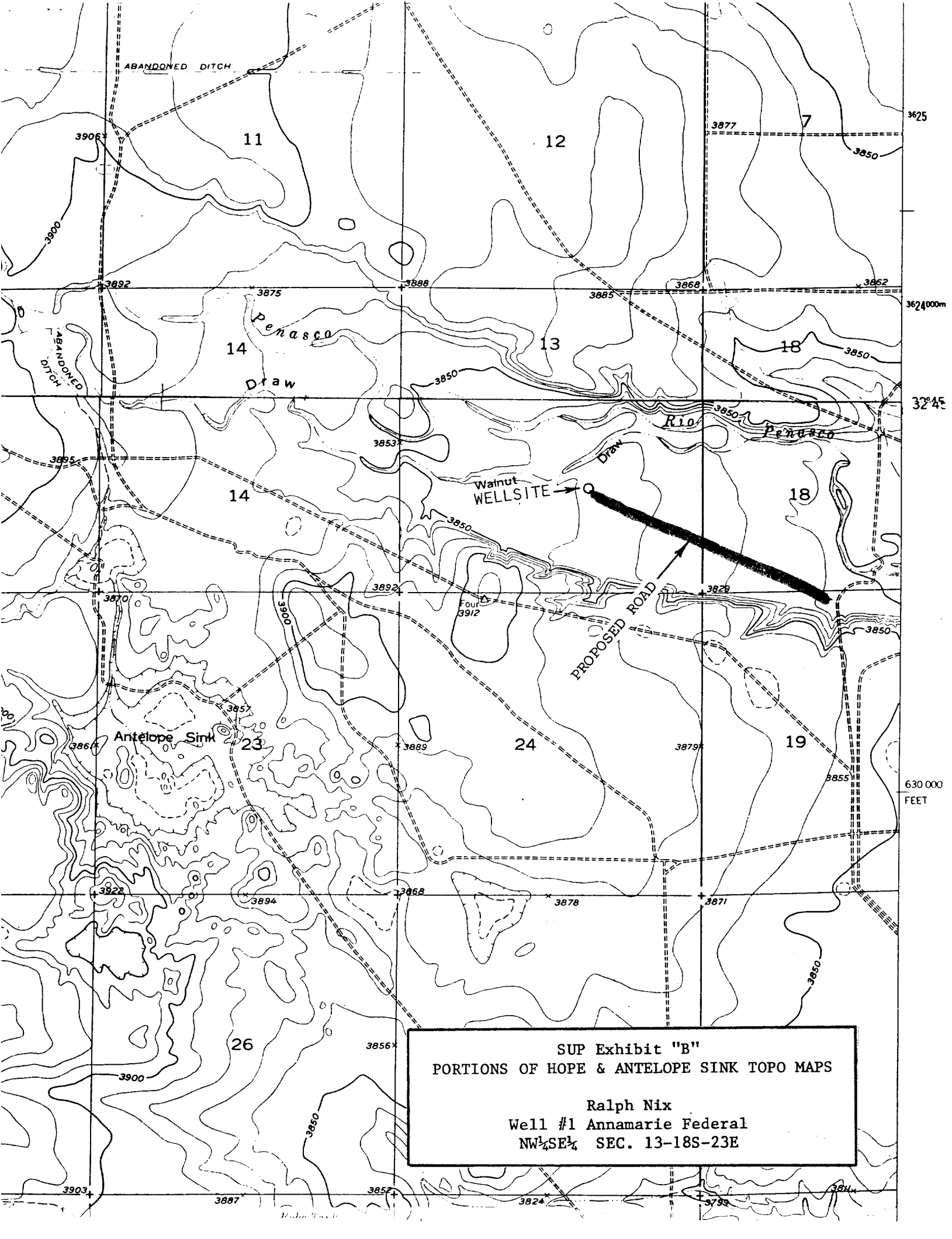
Date


Ralph Nix



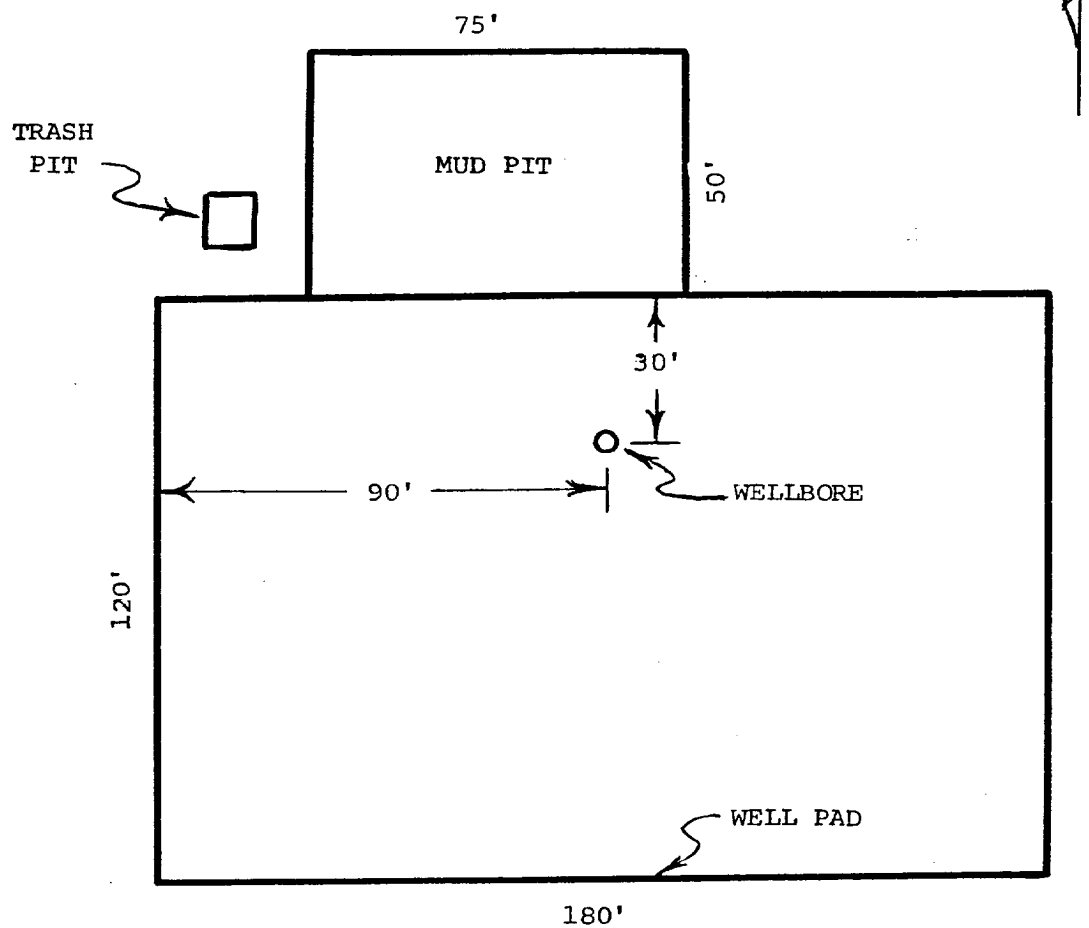
SUP Exhibit "A"
PORTION OF EDDY COUNTY ROAD MAP

Ralph Nix
Well #1 Annamarie Federal
NW $\frac{1}{4}$ SE $\frac{1}{4}$ SEC. 13-18S-23E



SUP Exhibit "B"
PORTIONS OF HOPE & ANTELOPE SINK TOPO MAPS

Ralph Nix
Well #1 Annamarie Federal
NW $\frac{1}{4}$ SE $\frac{1}{4}$ SEC. 13-18S-23E



SUP Exhibit "D"
SKETCH OF WELL PAD

Ralph Nix
Well #1 Annamarie Federal
NW $\frac{1}{4}$ SE $\frac{1}{4}$ SEC. 13-18S-23E