

UNITED STATES  
DEPARTMENT OF THE INTERIOR

## GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 10. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## 11. TYPE OF WELL

OIL WELL ☐GAS WELL ☒OTHER ☐SINGLE ZONE ☐MULTIPLE ZONE ☐

## 12. NAME OF OPERATOR

BELCO PETROLEUM CORPORATION

## 13. ADDRESS OF OPERATOR

10,000 Old Katy Road, Suite 100, Houston, Texas 77055

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

At surface 1980' FSL; 1980' FEL

At proposed prod. zone

Same

## 15. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE

5 miles south of Loco Hills, New Mexico

## 16. DISTANCE FROM PROPOSED

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

660'

## 18. NO. OF ACRES IN LEASE

320

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

None

## 19. PROPOSED DEPTH

11,900'

## 17. NO. OF ACRES ASSIGNED TO THIS WELL

160

## 20. ROTARY OR CABLE TOOLS

Rotary

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

3436.0 GR

B.M. Geo. + ECC. 9-22-76

## 22. APPROX. DATE WORK WILL START

October 20, 1976

## 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"	48.00	400'	300 sx (circulate)
12-1/4"	9-5/8"	36.00	3,200'	1,000 sx (circulate)
8-3/4"	5-1/2"	17.00	11,900'	500 sx

Prior to drilling below 9-5/8" casing, 3 remote-controlled BOP's w/5000# working pressure will be used. 1 Hydril, 1 pipe ram and 1 blind ram

Weight-PPG	Viscosity-SEC	Water Loss	Type
400 - 9.0 - 9.5	35 - 40	No control	Gel/Lime
400 - 9.5 - 10.0	30 - 35	No control	Native w/conversion to sat. brine C 1600'
3,200 - 9.0 - 9.5	30 - 35	No control	Fresh water/lime
9,000 - 9.0 - 9.5	35 - 40	10 cc	Gel/Spersene - nondispersed

SURFACE FORMATION: Alluvium &amp; bolson deposits

Estimated Tops Geological Markers: Base salt 1300, San Andres 3300, Atoka Shale 10,800

Estimated Depths-Oil &amp; Gas: Bone Springs 8100; Wolfcamp 8300, Strawn 10,500; Morrow 11,200

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 Administrative Geologist

DATE Sept. 16, 1976

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

LOGGING: Dual Induction, Neutron Density

TESTING: Possibly open hole DST

APPROVED  
OCT 1 1976  
J. L. BEEKMAN  
ACTING DISTRICT ENGINEER

THIS APPROVAL IS REVOKED IF OPERATIONS ARE NOT COMMENCED WITHIN 3 MONTHS.  
EXPIRES JAN 1 1977

THIS APPROVAL IS REVOKED IF OPERATIONS ARE NOT COMMENCED WITHIN 3 MONTHS.  
EXPIRES JAN 27 1977

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION

All distances must be from the outer boundaries of the Section

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NEW MEXICO

BELCO PETROLEUM CORP.		Federal 17		18 South		30 East	
J	17	18 South	30 East	1980	1980	East	
3486.0	Morrow	W. Hunt	320				

- 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 consolidated by communitization, unitization, force-pooling, etc?

☒ Yes ☐ No If answer is "yes," type of consolidation communitization

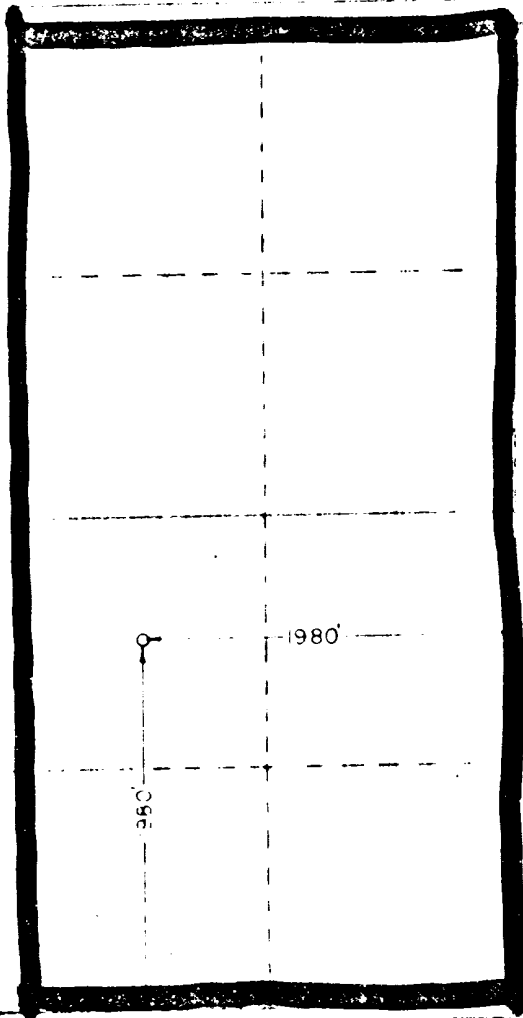
If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)

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.

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OCT 28 1976

O. C. C.  
ARTESIA, OFFICE



CERTIFICATION

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

*Lee J. Merz*  
Administrative Geologist  
Belco Petroleum Corp.  
9-20-76

I hereby certify that the well 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.

August 26, 1976

*John W. West*  
676

SURFACE USE PLAN  
BELCO PETROLEUM CORPORATION  
Well No. 1 Federal 17  
1980' FSL, 1980' FEL, Sec. 17, T18S-R30E  
Eddy County, New Mexico  
Lease: New Mexico 063472

The proposed wellsite is approximately five miles due south of Loco Hills, New Mexico and can be reached by exiting from a paved road three miles southwest of Loco Hills (See Exhibits "A" and "B").

1. EXISTING ROADS: Access and existing roads are shown on Exhibit "A", a regional map at a scale of 1" = 2 miles. In addition, Exhibit "B" also illustrates access. Exhibit "B" is a composite of enlarged portions of USGS topographic quadrangles Clayton Basin, Maljamar and Oil City, spliced to USGS topographic quadrangle Red Lake S.E. with a uniform scale of 1:24,000. Existing roads are also shown on Exhibit "C", a plat of the lease at a scale of 1" = 500'.

Belco plans to repair and maintain an existing entry caliche road, (see Exhibit "B") which extends two miles northward from the proposed location entry road connecting to an existing, maintained, good condition caliche road.

2. PROPOSED ROAD: A proposed 1800' road is shown on Exhibits "A", "B" and "C" which will occupy an existing trail which shows evidence of occasional use.

Length and Width: Approximately 1800' of 20' sub-grade under 12' width roadway.

Surfacing Material: New road will be surfaced with six inches of compact caliche derived from an existing open pit 2.5 miles north of the proposed location as shown on Exhibit "A".

Cut and Fill: None required, shown on Exhibit "A".

Culverts: None required.

Cattleguards, Gates, etc.: None are planned at this time although an existing narrow cattleguard located 3+ miles north of the proposed wellsite on existing good caliche road (see Exhibit "B") will be evaluated for possible replacement according to need.

3. EXISTING WELLS: This proposed wildcat gas well location is on the south end of existing shallower oil fields having numerous wells as shown by Exhibit "A". Nearby shallow dry holes are also shown on Exhibit "A". Nearest comparable well is a dry hole approximately two miles north of the proposed location.

4. PRODUCTION, GATHERING, TREATING AND STORAGE FACILITIES:

Tank Battery: Tank battery site as shown on Exhibit "D" in the event of a successful well.

Flow Lines: Proposed flow lines are shown on Exhibit "D".

Transmission Gas Sales Line: If successful, the gas from this well will be assigned to New Mexico Gas Company to which it is presently dedicated. Location of a sales line is presently not determined although it is anticipated that a gas sales line will be constructed parallel to existing roads to a connection point in SW/4 Section 2, T18S - R29E, a distance of approximately six miles from the proposed wellsite. An amended land use plan will be developed in the event of this contingency.

5. WATER SUPPLY: Drilling water will be transmitted to the proposed wellsite by a temporary surface flow line from an existing water well shown on Exhibit "B" approximately 0.8 miles north of the proposed wellsite.

6. SOURCE OF CONSTRUCTION MATERIALS: Caliche for surfacing the proposed road and wellsite pad will be obtained from an existing open pit in the SWNE/4 Section 5, T18S - R30E, as shown on Exhibit "B". In addition, caliche may be obtained from existing open pits in Section 32, T17S - R30E.

7. METHODS OF HANDLING WASTE DISPOSAL:

Drill cuttings will be disposed of in the drilling pits.

Drilling fluids will be allowed to evaporate in the drilling pits until pits are dry.

Any produced water will be collected in tanks until hauled away. Any oil produced during tests will be stored in test tanks until sold.

Trash containers will be provided around the drilling rig during drilling and completion procedures. Trash, waste paper, garbage, and junk will be buried in a separate trash pit, as shown on Exhibit "D", and covered with a minimum of 24 inches of dirt.

8. ANCILLARY FACILITIES: No camps, airstrips, etc. will be constructed.

9. WELLSITE LAYOUT: Exhibit "D" shows the dimensions and the relative locations of the well pad, mud pits, reserve pit, and trash pit with respect to the well.

Mat Size: 350' x 230'

Cut and Fill: The proposed drillsite pad will require leveling, including minor cutting of the native sand (in low relief dune form) on the western side of the pad as well as minor fill by sand on the east side of the pad.

Surfaced: The sand base will be surfaced by 6 inches of compact caliche.

Reserve Pit: 155' x 125' pit lined with plastic.

Cleared Buffer Area: No buffer area is to be cleared; however, area around well mat may be used for turn-a-around and/or storage.

10. PLANS FOR RESTORATION OF THE SURFACE: 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 location cleaned of all trash and junk as soon as practical or buried with at least 24" of cover. Any unguarded pits containing fluids will be fenced until they are filled. After abandonment of the well, the well pad and all unneeded access roads will be ripped to promote re-vegetation.

11. OTHER INFORMATION:

Topography: Land surface consists of very low relief undulating sand dunes.

Soil: Sand

Vegetation: Johnson grass, scrub oak (greasewood), sand sage, minor amount of low mesquite, and a few yucca observed.

Wildlife: Rabbits, gophers and mice observed.

Ponds and Streams: None present in vicinity of drillsite.

Residences and Other Structures: There are no occupied dwellings within 1/2 mile.

Water Wells: One well observed 0.8 mile north of proposed well location.

Land Use: Sparse grazing and hunting.

Surface Ownership: SE/4 of Section 17: Synder Ranches, c/o Larry Squires, P. O. Box 726, Lovington, New Mexico 88260, a grazing lease from the BLM.

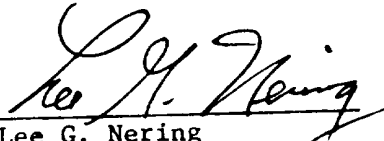
Well Sign: Sign identifying and locating well will be maintained at drillsite commencing with the spudding of the well.

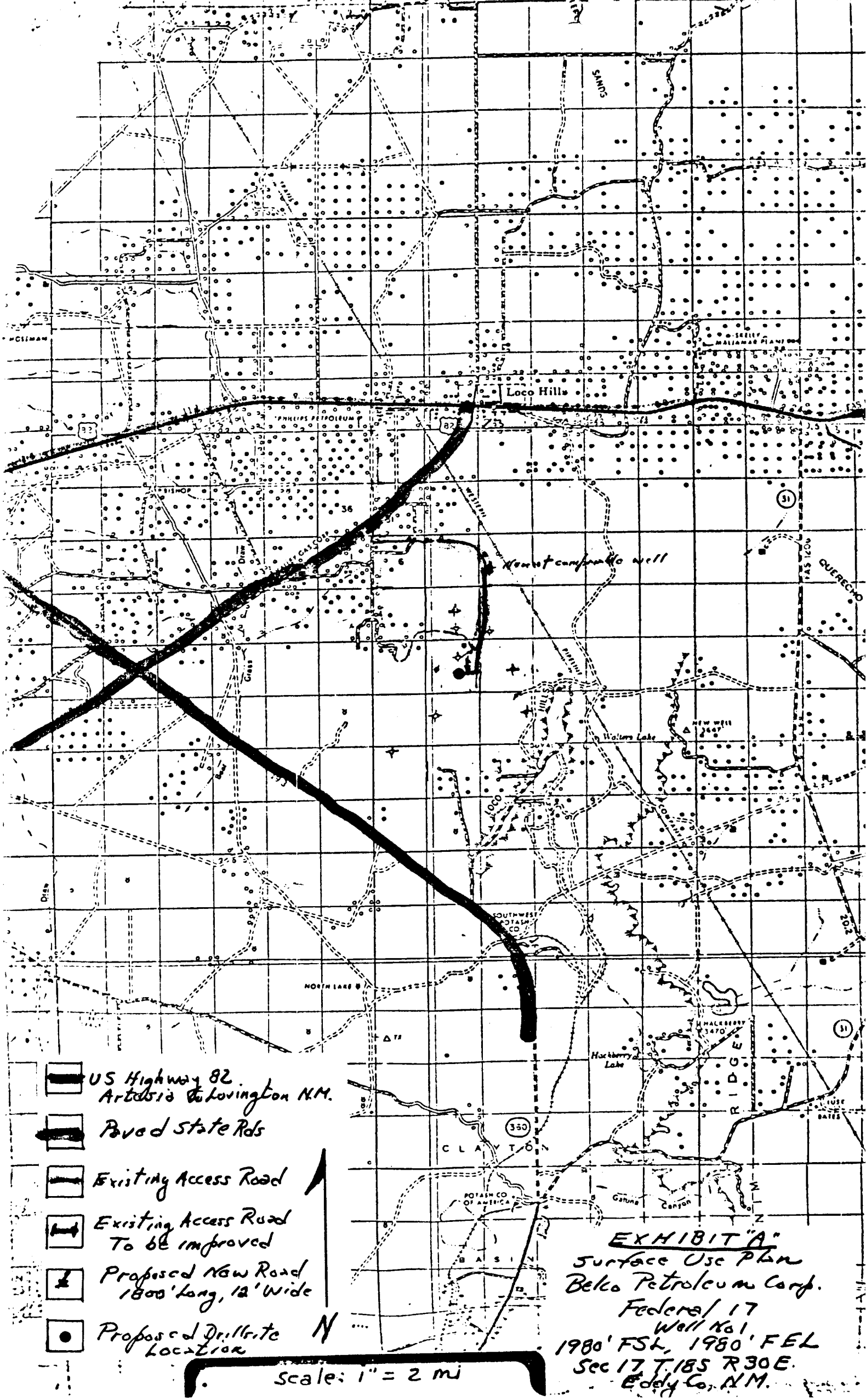
12. OPERATOR'S REPRESENTATIVE: Field personnel who can be contacted concerning compliance of this Surface Use Plan consists of:

Ray Belden, 411 Petroleum Building, Midland, Texas 79701 - Phone: (915) 683-6366

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 plat are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by BELCO PETROLEUM CORPORATION and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved. A copy of this plan will be posted at the wellsite during the drilling of the well for reference by all contractors and sub-contractors.

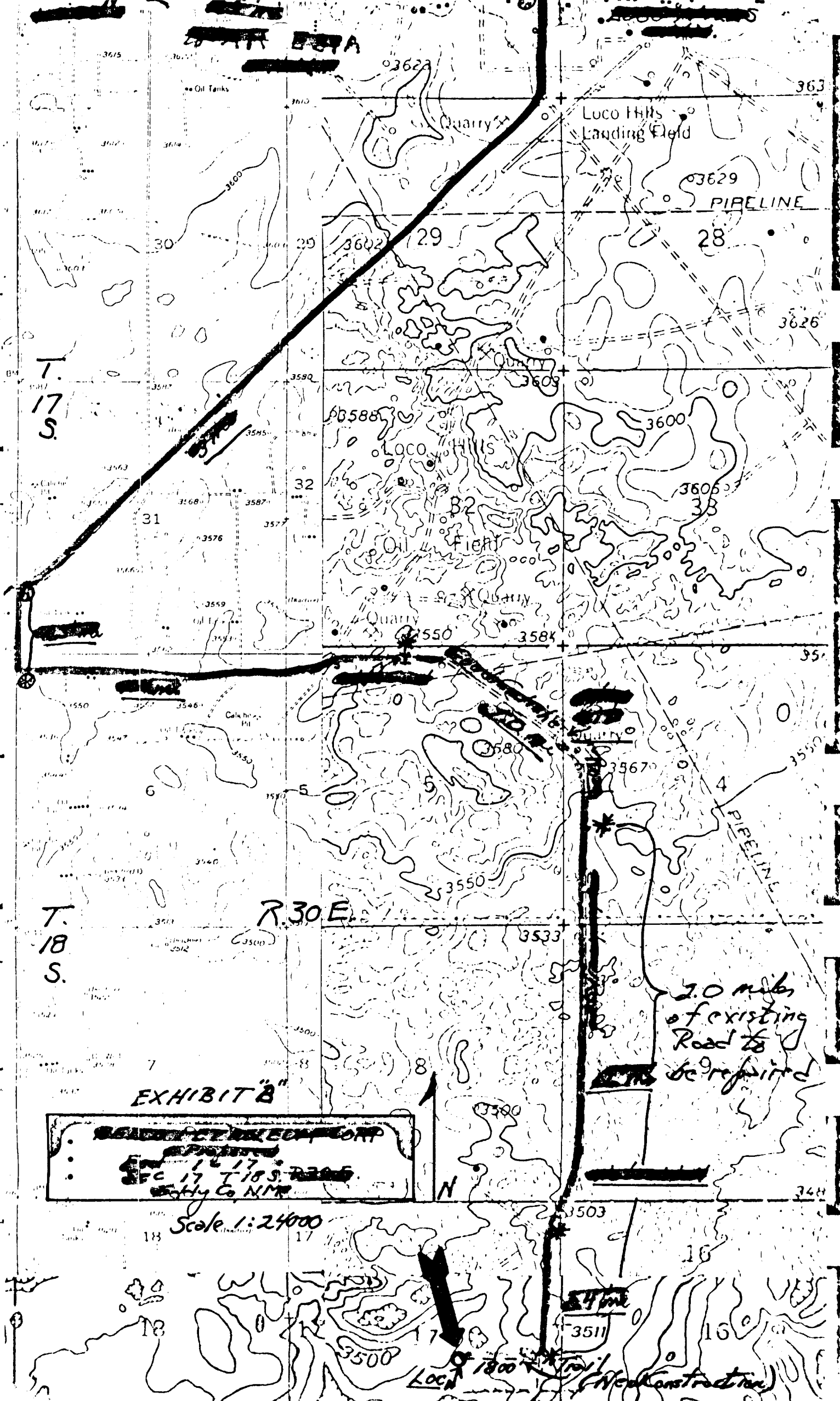
  
Lee G. Nering  
Administrative Geologist  
BELCO PETROLEUM CORPORATION  
Houston, Texas



- US Highway 82
- Artesia to Lovington N.M.
- Paved State Rds
- Existing Access Road
- Existing Access Road To be improved
- Proposed New Road 1800' long, 12' wide
- Proposed Drill Site Location

Scale: 1" = 2 mi

**EXHIBIT "A"**  
Surface Use Plan  
Belco Petroleum Corp.  
Federal 17  
Well No. 1  
1980' FSL, 1980' FEL  
Sec 17, T.18S R.30E.  
Eddy Co., N.M.



T.  
17  
S.

T.  
18  
S.

R. 30 E.

EXHIBIT "B"

REDACTED CORP  
FC 17 T. 18 S. R. 30 E.  
W. Co. N.M.

Scale 1:24000

Loc 1800 (New Construction)

2.0 miles  
of existing  
Road to  
be repaired

1/8

Section

17

Proposed Location

1800' ± 512' wide

Proposed New Road

Proposed Drillsite Rd

2.0 miles Repair

Existing Caliche Road

Gate

USGS  
1988 Rotated Core Hole

U.S. NM 063472 320 Acres

18 17

17 20

EXHIBIT "C"

Land Use Plan

Beko Petroleum Corp

Field 17-1

1980 FSL 1980 FEL

Sec 17 T18S R30E

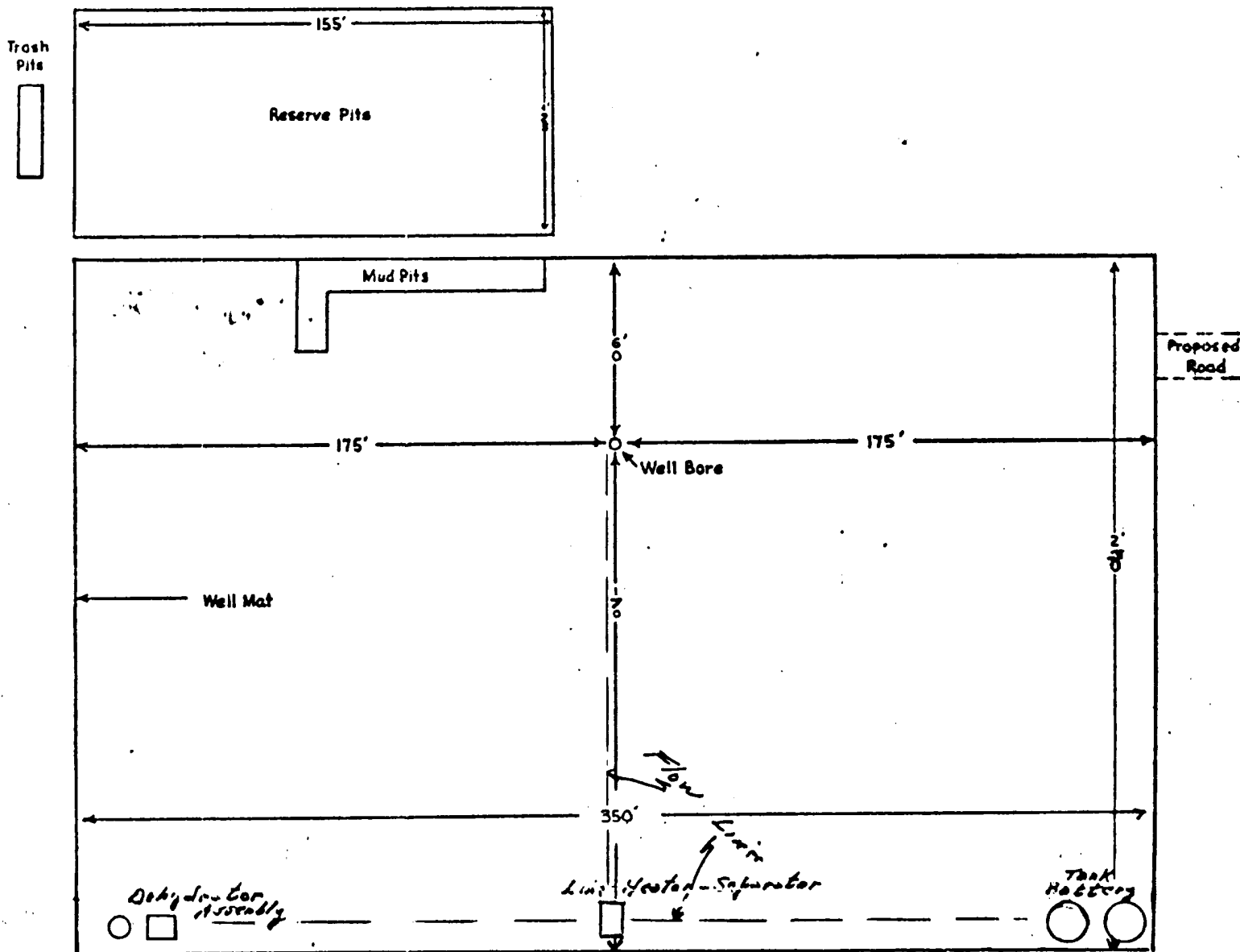
Scale: 1" = 500'

17 16

20 21

N





Scale 1" = 50'



EXHIBIT "D"

Beko Petroleum Corp.

Land Use Plan

Fcd 17-1

Sec 17, T18S R30E

Eddy Co., NM.

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