

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

BELCO PETROLEUM CORPORATION

3. ADDRESS OF OPERATOR

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

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

At surface

1980' FNL, 915' FWL

At proposed prod. zone

same

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

8 miles west of Carlsbad, New Mexico

15. DISTANCE FROM PROPOSED*

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

915'

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

none

16. NO. OF ACRES LEASE

D.C.C.
ARTESIA, OFFICE

19. PROPOSED DEPTH

10,700'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320

20. ROTARY OR CABLE TOOLS

Rotary

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

3512.5 Gr

22. APPROX. DATE WORK WILL START*

March 1, 1977

23.

PROPOSED CASING AND CEMENTING PROGRAM

60 days; May 1, 1977

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48# K-55	300	315 sx
12-1/4"	9-5/8"	36# K-55	2,300	750 sx
8-1/2"	5-1/2"	17 & 20# N-80	10,700	720 sx

BOP PROGRAM

- 13-3/8" Csg. 12" Hydril will be installed & tested to 1500 psi. Two inch diverter line w/1500 psi working pressure valve will be installed below Hydril.
- 9-5/8" Csg. 10" rams & blinds w/Hydril. Hydraulic choke & manifold. BOP stack & choke manifold will be tested to 3000 psi. At 5000' a flow-show & gas separator will be installed. A set of PVT's will be used on steel mud pits.

Depth	MW	WL	Type
0 - 300'	8.5	NC	Spud
300 - 2,300'	8.4 - 8.6	NC	Water
2,300 - 8,000	8.4 - 8.5	NC	Water
8,000 - TD	8.6 - 9.2	5	Non-dispersed

GAS IS NOT DEDICATED.

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

Administrative Geologist

DATE Jan 13 1977

(This space for Federal or State office use)

DECLARED WATER BASIN

CEMENT BEING USED
CASING MUST BE CIRCULATED

DATE

APPROVED BY

CONDITIONS APPROVAL IF ANY:

MAR 11 1977

ACTING DISTRICT ENGINEER

THIS APPROVAL IS RESCINDED IF OPERATIONS
ARE NOT COMMENCED WITHIN 3 MONTHS
EXPIRES JUN 11 1977

*See Instructions On Reverse Side

NOTIFY USGS IN SUFFICIENT TIME TO
CLOSING

Copy to SF
30-015-22076

5. LEASE DESIGNATION AND SERIAL NO.

NM 25348

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

RV 10

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Morrow

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

Sec. 10, T22S - R25E

12. COUNTY OR PARISH

Eddy

13. STATE

New Mexico

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form O-107
Superseded O-128
Effective 1-1-65

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

Operator BELCO PETROLEUM CORPORATION			Lease Federal "RV" 10		Acres 1
Unit Letter E	Section 10	Township 22 South	Range 25 East	County Eddy	
Actual Forage Location of Well: 1980 feet from the north line and 915 feet from the west line					
Ground Level Elev. 3512.5	Producing Formation Morrow		Pool Undesignated Morrow		Section 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 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 (on 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.

RECEIVED
JAN 17 1977
U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

CERTIFICATION

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

Lee G. Nering

Lee G. Nering

Administrative Geologist

BELCO PETROLEUM CORPORATION

January 13, 1977

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

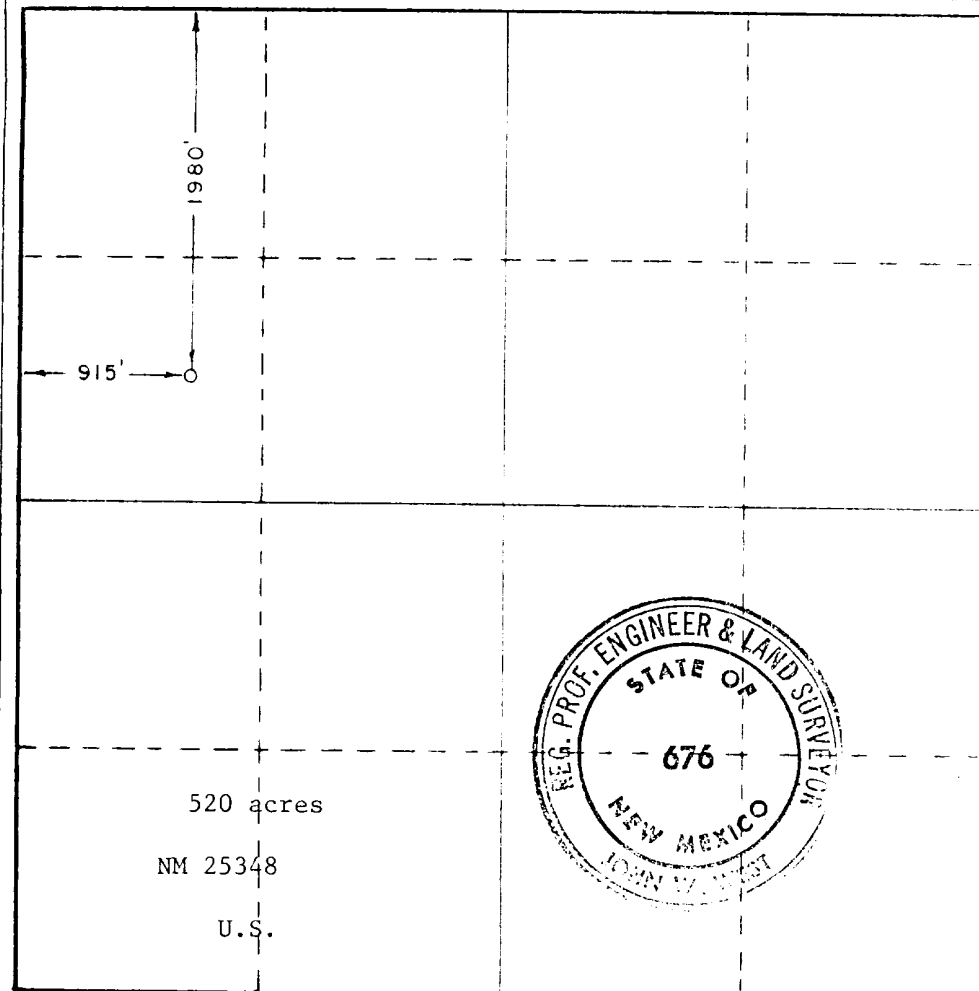
Jan. 7, 1977

Registered Professional Engineer and State Surveyor

John W. Wood

Plat Number

676



GEOLOGICAL INFORMATION

BELCO FEDERAL RV 10-1

Section 10, T22S - R25E

Eddy County, New Mexico

The surface at the location is composed of the Permian Yates Formation, a sandy, carbonate rock, and Quaternary Alluvium.

The following formation depths are anticipated:

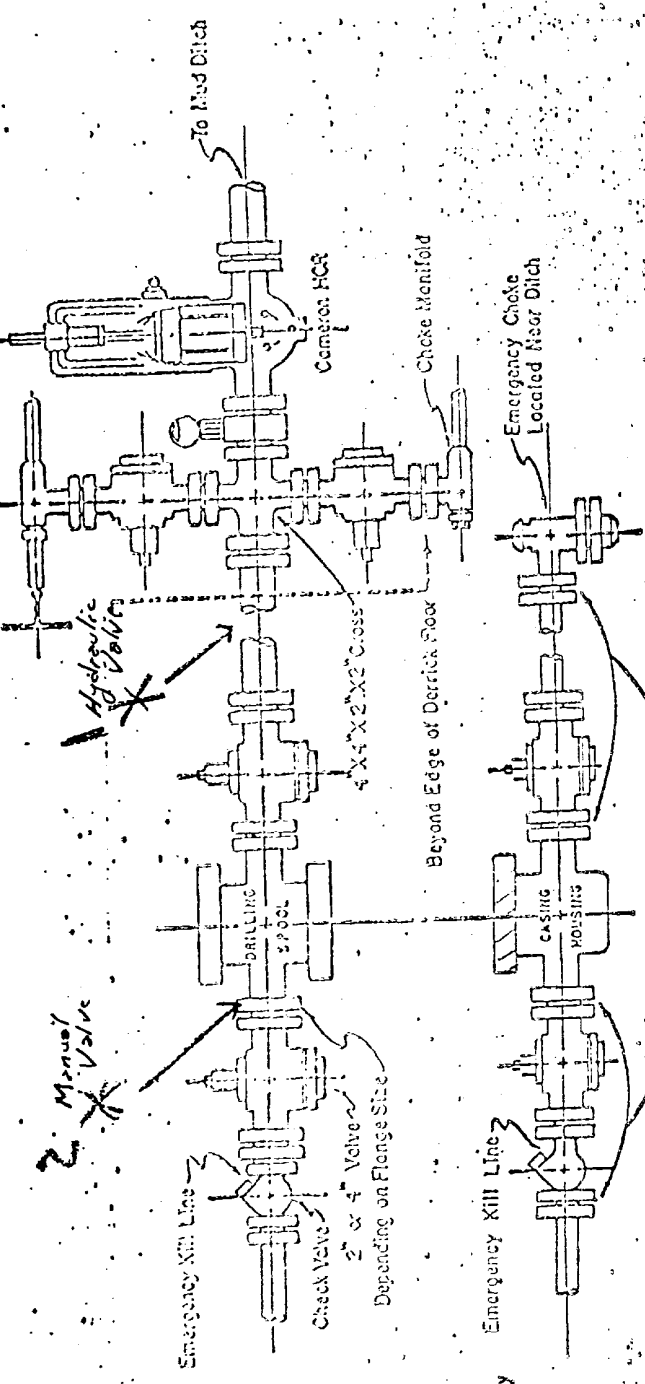
Delaware	2,250	Possible oil
Bone Springs	4,050	Possible oil
Wolfcamp	7,700	Possible gas
Cisco-Canyon	8,300	Possible gas
Morrow	10,100	Objective gas
Barnett	10,500	

Logging will consist of Dual Laterolog, Densilog-Neutron and an Inclination Report to be run at total depth.

Open hole testing is anticipated in the Lower Permian and the Pennsylvanian sections, but only at the discretion of the wellsite geologist.

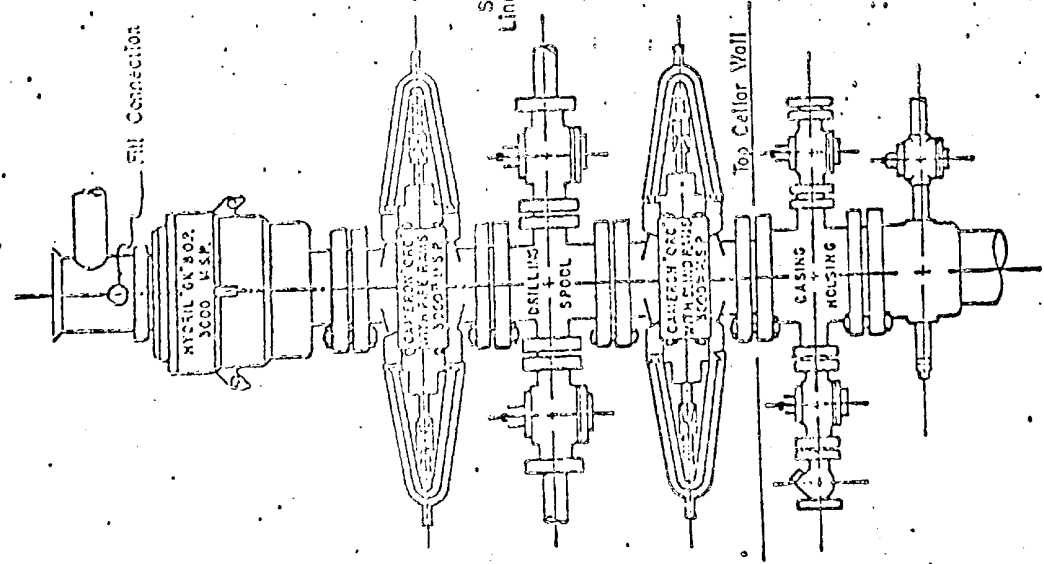
No coring is anticipated.

Blow-out-preventers hydril and choke manifold all 1500 Series.



5,000 PSI WORKING PRESSURE
KILL, CHOKES, AND FILL CONNECTIONS
API Series 900 Flanges or Better

DETAIL OF 4" FLOW LINE CHOKES ASSEMBLY
Minimum assembly for 5000 PSI working pressure will consist of three preventers. The bottom and middle preventers may be Cameron



5,000 PSI WORKING PRESSURE
BLOWOUT PREVENTER HOOK-UP
1500 Series 900 Flanges, or Better

- 1. Rotating Stripper Head below intermediate csg.
 - 2. Lower Kelly-cock valve
- M. Vay Drilling Co.

SURFACE USE PLAN
BELCO PETROLEUM CORPORATION
FEDERAL RV 10-1
1980' FNL, 915' FWL, Sec. 10, T22S - R25E
Eddy County, New Mexico
Lease: New Mexico 25348

RECEIVED
JAN 17 1977
U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

The proposed wellsite is approximately eight miles west of Carlsbad, New Mexico, and can be reached by exiting from Lea Street to Jones Road in the Carlsbad community of Happy Valley, as shown on Exhibit "A".

1. EXISTING ROADS: Access and existing roads are shown on Exhibit "A". In addition, Exhibit "B" also illustrates proximity access. Exhibit "B" is an enlargement of Exhibit "A", USGS topographic quadrangle Carlsbad, West, scale 1: 62,500 to a 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 maintain an existing entry caliche road which extends one-half mile southeastward from the proposed location connecting to an existing, maintained, good condition caliche road, as shown on Exhibits "A" and "B".

2. PROPOSED ROAD: The existing entry caliche road crosses the westernmost portion of the proposed wellsite pad, alleviating any need for new road construction.

Cut and Fill: None anticipated excepting some compacted caliche to level the pad.

Culverts: None required.

Cattleguards, Gates, etc.: None are planned at this time.

3. EXISTING WELLS: This proposed wildcat gas well location is located 2000' north-east of Belco's Jones-1 gas well in Section 9. The Jones and other wells in the vicinity are shown on Exhibits "A" and "B".

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".

5. WATER SUPPLY: Drilling water will be hauled to the proposed wellsite from commercial source in Carlsbad.

6. SOURCE OF CONSTRUCTION MATERIALS: Caliche for maintaining the existing roads and for surfacing the proposed wellsite pad will be obtained from an existing open pit in the SW/4 Section 11, T22S-R25E.

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 be 1-veled.

Surfaced: The base will be surfaced by six 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-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 revegetation.

11. OTHER INFORMATION:

Topography: Land surface consists of moderate relief carbonate hill and valley.

Soil: Thin calcereous soil underlain with some caliche.

Vegetation: Native grasses, scrub oak (greasewood), some sage, some mesquite and yucca.

Wildlife: None observed.

Ponds and Streams: An intermitant stream 500' west of the pad.

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

Water Wells: None in immediate vicinity of drillsite.

Land Use: Sparse grazing and hunting.

Surface Ownership: The W/2 of Section 10 has a surface grazing lease issued by the BLM to F. H. Jones, P. O. Box 633, Carlsbad, New Mexico 88220.

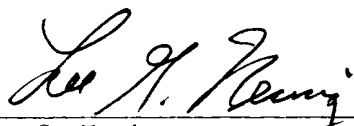
Well Sign: Sign identifying and locating well will be maintained at drillsite commencing with the spudding of the well.

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

ARCHEOLOGICAL NOTE
REGARDING
PROPOSED BELCO PETROLEUM CORPORATION RV 10-1
1980' FNL, 915' FWL, Sec. 10, T22S-R25E
Eddy County, New Mexico

During the course of archeological evaluation for the Belco Federal RV 4-1 wellsite which lies approximately one-half mile northwest of the proposed RV 10-1, a Ring Midden site was observed in Section 10 by the Archeologist on the entry existing road to the RV 4-1 site. Since Belco planned to improve and maintain this entry road to the RV-4, the BLM, Roswell, specifically stipulated that "no additional disturbance west of the existing entry trail should be created". A copy of the stipulation is attached.

Belco's proposed RV 10-1 site is located approximately one-fourth mile northwest of the Ring Midden site on the existing entry road to the RV 4-1, but entirely east of that existing entry road. This was noted in the accompanying Narrative which describes the road as passing only on the westernmost portion of the drillsite pad. It is Belco's intention to construct only east of the existing road for the RV 10-1 site.

- ☒ 10. All waste associated with the drilling operation will be buried in place (in a separate trash pit) or removed and deposited in an approved sanitary landfill. All garbage (metal containers will be crushed) and debris left on site will be buried at least three feet deep. All trash and debris will be buried or removed from the site within one month after removal of the drill rig. The permittee will comply with all state laws and regulations pertaining to the disposal of human waste.
- ☐ 11. If the well is a producer, during cleanup: all cut and fill banks will be made to be no steeper than _____ slope wherever possible.
- ☒ 12. The well "site", if a producer, will be maintained and kept clean of all trash and litter or other foreign material which detracts from the surrounding environment. Maintenance shall also include measures necessary to stabilize soil conditions (other than reseeding) on the road and pad area, and maintenance of facilities associated with said well, to the satisfaction of the District Manager for the lifetime of the well.
- ☒ 13. In the event the oil or gas test results in a dry hole, the drill pad and access road will be ripped in accordance with "BLM Roswell Districts' Ripping Recommendations for Caliche or Compacted Drill Pads and Access Roads" (3109). (Reseeding of the affected areas may be required at the discretion of the District Manager).
- ☒ 14. All structures and pipelines above ground shall be painted a non-glare, non-reflective, non-chalking color that simulates the natural colors of the site. The Bureau will furnish the Federal Standard Number to be used.
- ☒ 15. Special Stipulations:

To avoid disturbance of existing historical and archaeological values, that portion of roadway described in the S. & P. as "Existing road to be improved" (Pink color) should only be altered and/or improved to the East of the existing trail. No additional disturbance west of existing trail should be created.

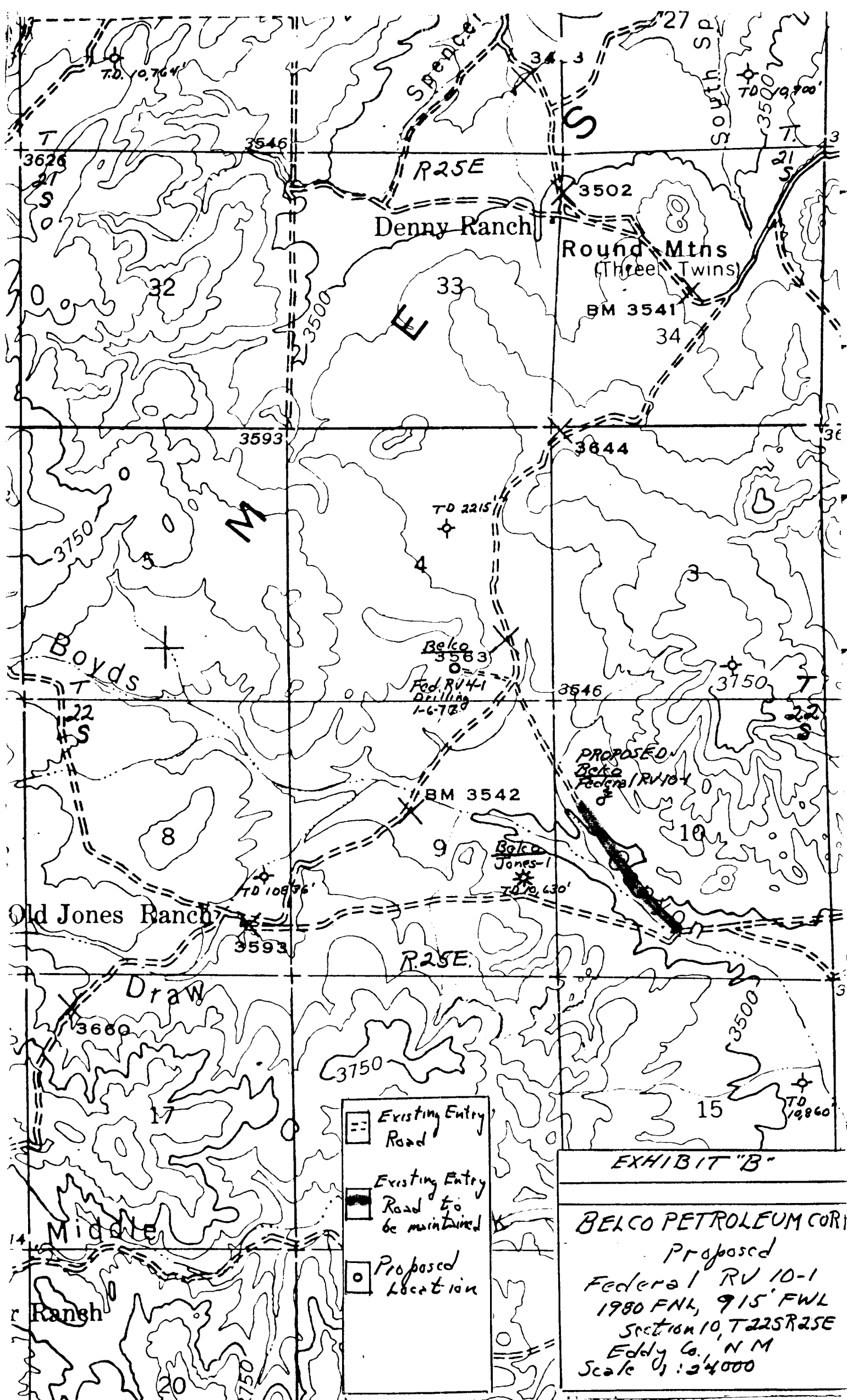


EXHIBIT "C"
Proposed
Belco
Federal RV 10-1
Sec 10, T22S, R25E
Eddy Co., N.M.



To Belco
RV 4-1
1980' FEL
660' FSL
Sec 4

4 3
9 10

1980'

915' Proposed
Belco
Federal RV 10-1

10

Belco
Jones-1

Existing
Entry Road to Belco RV 4-1

Existing Good Condition Road

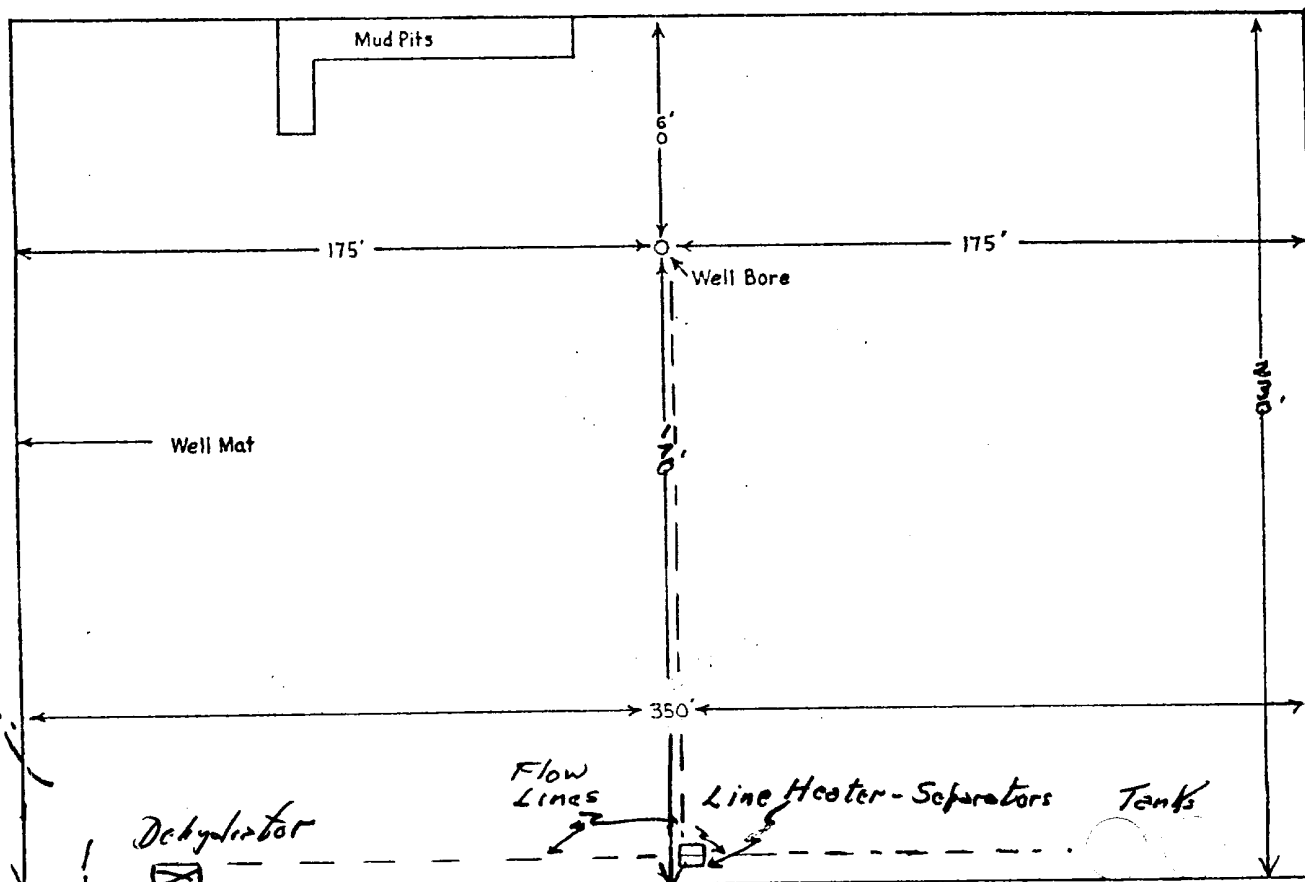
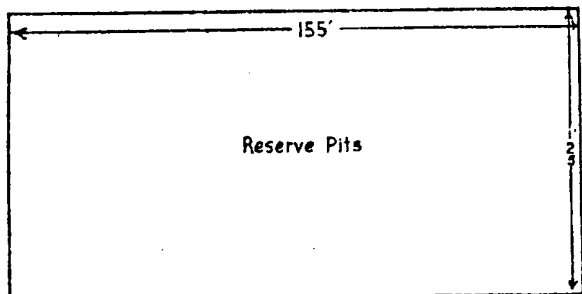
NM 25348
520 Ac.

U. S.

9 10
16 15

Scale 1" = 500'

Trash Pits



Scale: 1" = 50' EXHIBIT "D"