

30-025-25450

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
 990' FNL, 1980' FWL
 At proposed prod. zone
 Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 11 miles southeast of Halfway, New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
 990'

16. NO. OF ACRES IN LEASE
 640

17. NO. OF ACRES ASSIGNED TO THIS WELL
 320'

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
 2400'

19. PROPOSED DEPTH
 14,600'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 3911.7 GR

22. APPROX. DATE WORK WILL START*
 November 15, 1976

23. PROPOSED CASING AND CEMENTING PROGRAM *est. 3 mo. duration*

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	54.5# <i>N-53</i>	500'	600 sx Circ.
12-1/4"	9-5/8"	40.0# <i>N-53</i>	5,800'	1500 sx Circ w/multi-stage cementing tool @ 3300' or 100' b. base of salt
8-3/4"	5-1/2"	17.0 & 20.0# <i>N-50</i>	14,600'	500 sx low

Prior to drilling below the 9-5/8" csg., 3 remote-controlled BOP's w/working pressures of 5000# will be utilized; 1 Hydril, 1 pipe ram & 1 blind ram.

The Mud Program will consist of:

	Wt.	H.P.	W.L.	Mud
0- 1,100	8.4- 8.8	457	-	Natural
1,100- 3,300	9.7-10.1	1628	-	Brine
3,300-11,900	8.4- 8.6	5051	-	Fresh
11,900-13,100	9.6-10.0	6448	-	Brine
13,100-13,600	9.6-10.0	6760	15-10	Brine-Polymer
13,600-14,600	9.6-10.0	7072	10-8	Brine-Polymer w/5% KCl

Geological information 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 *Lee H. King* TITLE Administrative Geologist DATE 9/27/76

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

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5. LEASE DESIGNATION AND SERIAL NO.
 NM 14155
 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 7. UNIT AGREEMENT NAME
 8. FARM OR LEASE NAME
 Federal 13
 9. WELL NO.
 1
 10. FIELD AND POOL, OR WILDCAT
 Hat Mesa Morrow
 11. SEC., T., E., M., OR BLM. AND SURVEY OR AREA
 Section 13, T21S, R32E
 12. COUNTY OR PARISH
 Lea
 13. STATE
 New Mexico



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HOBBS, N. M.**

Geological Information
Belco 13-1
Section 13, T21S - R32E
Lea County, New Mexico

Surface: Quaternary Alluvium and Bolson deposits and Tertiary Ogalalla

Anticipated Tops:

Base of Salt	3,300 ⁺	
Yates	3,400'	
Delaware	5,800'	
Bone Springs	8,800'	
Wolfcamp	11,900'	
Strawn	13,050'	
Atoka	13,200'	
Morrow	13,600'	Anticipated gas

1. Testing only through production facilities unless open hole conditions warrant DST and are appropriate at that moment
2. No Coring
3. Logging will be conventional electrical (conduction) and conventional porosity tools (neutron-density), decision on specific type and service to be determined at appropriate moment

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

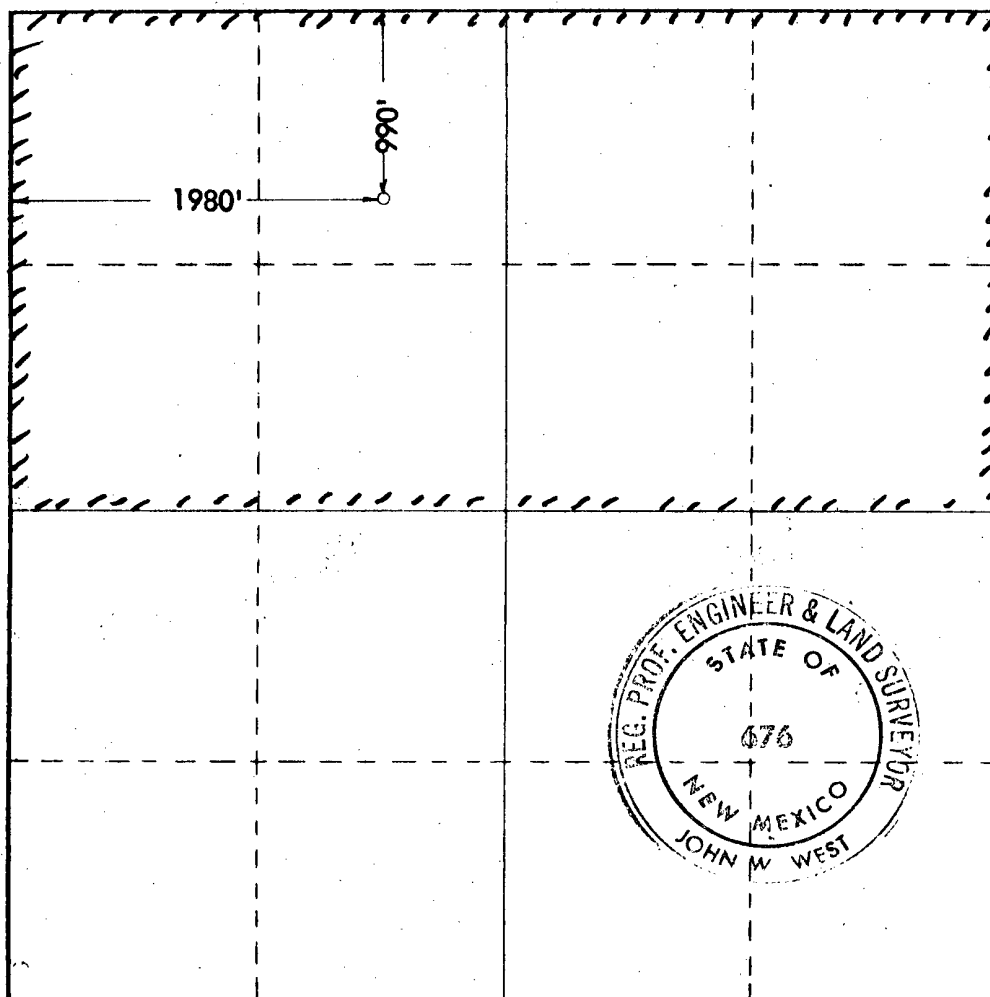
Operator Belco Petroleum Corp.		Lease Federal 13		Well No. 1
Unit Letter C	Section 13	Township 21 South	Range 32 East	County Lea
Actual Footage Location of Well: 990 feet from the North line and 1980 feet from the West line				
Ground Level Elev. 3911.7	Producing Formation Morrow	Pool Hat Mesa Morrow	Dedicated Acreage: 320 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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

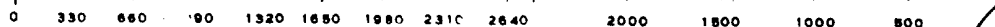
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name *Lee J. Peering*
 Position *Adv. Geologist*
 Company *Belco Petroleum Corp.*
 Date *9/27/76*

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 **9-9-1976**
 Registered Professional Engineer and/or Land Surveyor

John W. West
 Certificate No. **676**

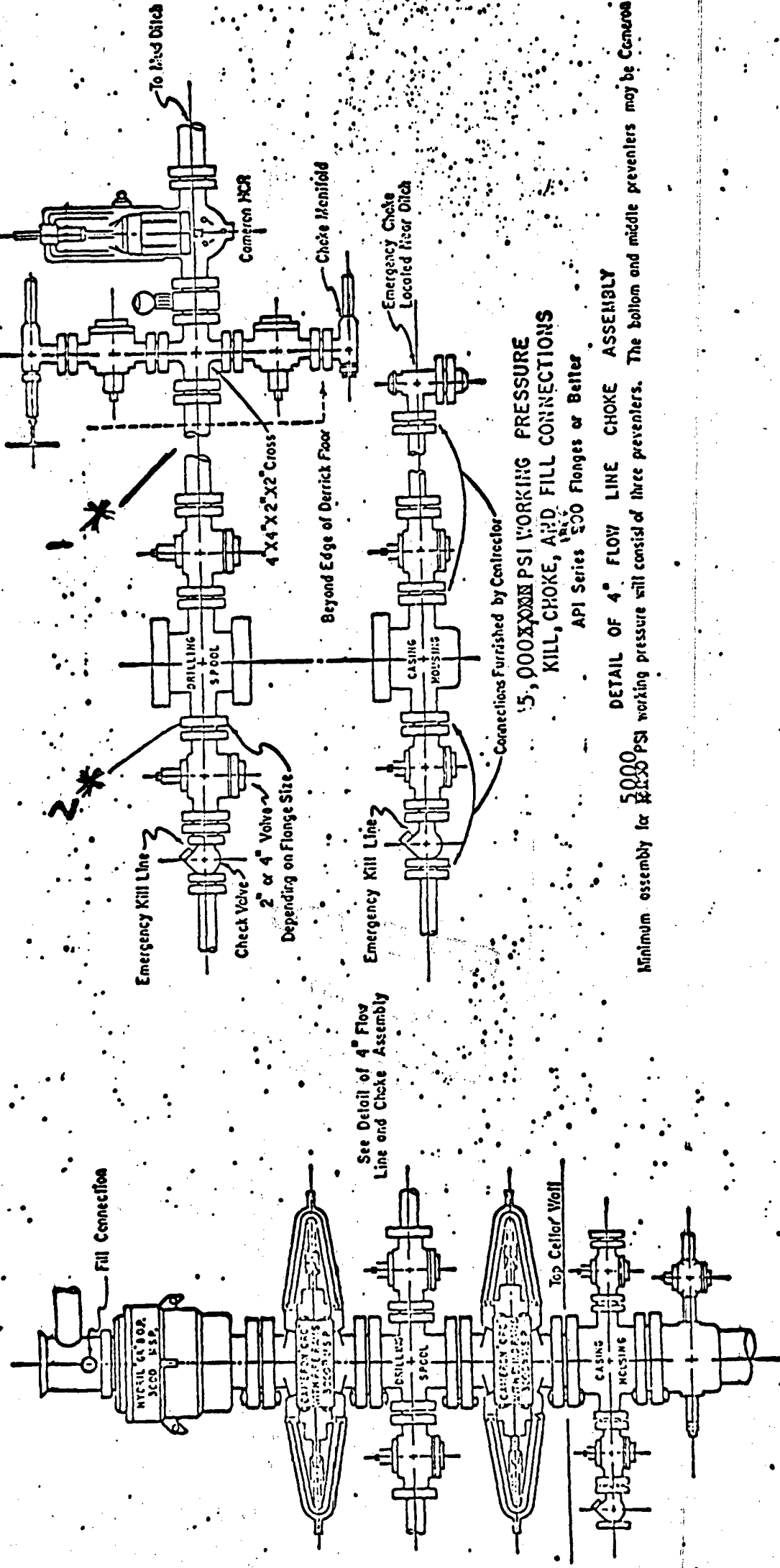


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Blow-out-preventers hydril and choke manifold all 1500 Series.



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

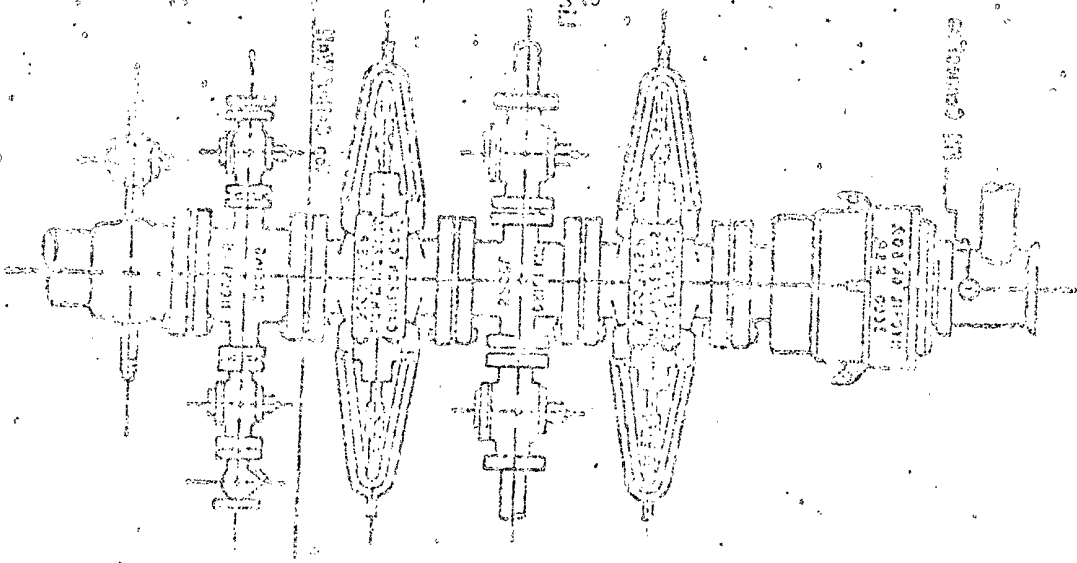
DETAIL OF 4" FLOW LINE CHOKE ASSEMBLY

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
API Series 900 Flanges, or Better

DATE 200 100000 7 8000

STONORL EVERETT 17 HLOS-00
2'000 8000001 1000000 8000000



STONORL EVERETT 17 HLOS-00
2'000 8000001 1000000 8000000

STONORL EVERETT 17 HLOS-00
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STONORL EVERETT 17 HLOS-00
2'000 8000001 1000000 8000000

MULTI-POINT SURFACE USE PLAN & OPERATIONS PLAN
BELCO PETROLEUM CORPORATION
Well No. 1 Federal 13
990' FNL, 1980' FWL, Sec. 13, T21S-R32E
Lea County, New Mexico
Lease: New Mexico 14155
A Development Well in the NMOCC
Hat Mesa Morrow Pool

The proposed wellsite is approximately eleven miles southeast of Halfway, New Mexico and can be reached by exiting from State Highway 176, 6.5 miles from Halfway. (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 Hat Mesa and Laguna Gatuna at 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'.

The existing access road is in good condition and is apparently maintained by other operators in the Pool.

2. PROPOSED ROAD: A proposed 300'[±] road is shown on Exhibits "A", "B" and "C".

A. Length and Width: Approximately 300' of 20' sub-grade under 12' width roadway flagged sufficiently to be readily observed.

B. Surfacing Material: New road will be surfaced with six inches of compact caliche derived from existing open pits in vicinity of location.

C. Turnouts: None

D. Cut and Fill: None anticipated.

E. Culverts: None

F. Cattleguards, Gates, etc.: None

3. LOCATION OF EXISTING WELLS: This proposed development gas well location is on the east side of the Hat Mesa Pool as shown on Exhibits "A" and "B". Dry holes are also shown on Exhibits "A" and "B".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

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

B. Flow Lines: Proposed flow lines are shown on Exhibit "D" and will be contained within the existing pad.

5. WATER SUPPLY: Drilling water will be transmitted to the proposed wellsite by Roland Trucking Water Haul, Hobbs, New Mexico. The source is presently not known.

6. SOURCE OF CONSTRUCTION MATERIALS: Caliche for surfacing proposed road and wellsite pad will be obtained from existing open pits on Federal Lands in E/2 SW/4 Section 11, T21S-R32E and NE NE Section 14, T21S-R32E.

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.

A. Mat Size: 350' x 230'

B. Cut and Fill: The proposed drillsite pad will require a minor amount of leveling which will consist of fill on the eastern side of the pad.

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

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

E. Cleared Buffer Area: No buffer area is to be cleared; however, area around well mat may be used for turn-a-round 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 25" 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:

A. Topography: Land surface consists of very low relief, nearly level, plateau.

B. Soil: Some sand and sandy soil underlain by some caliche.

C. Vegetation: Some mesquite, bitterweed, some cacti and native grasses.

D. Wildlife: None observed.

E. Ponds and Streams: None present in vicinity of drillsite.

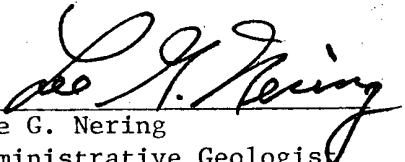
- F. Residences and Other Structures: There are no occupied dwellings within 1/2 mile.
- G. Water Wells: Water wells observed less than one mile east of proposed well location.
- H. Land Use: Sparse grazing and hunting.
- I. Surface Ownership: All Federal - Lease in Section 13 covered by a grazing lease issued by BLM to D. C. Berry, c/o Hazel Berry, P. O. Box 1075, Lovington, New Mexico 88260.
- J. 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 Multi-Point Surface Use Plan & Operations Plan consists of:

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

13. CERTIFICATION:

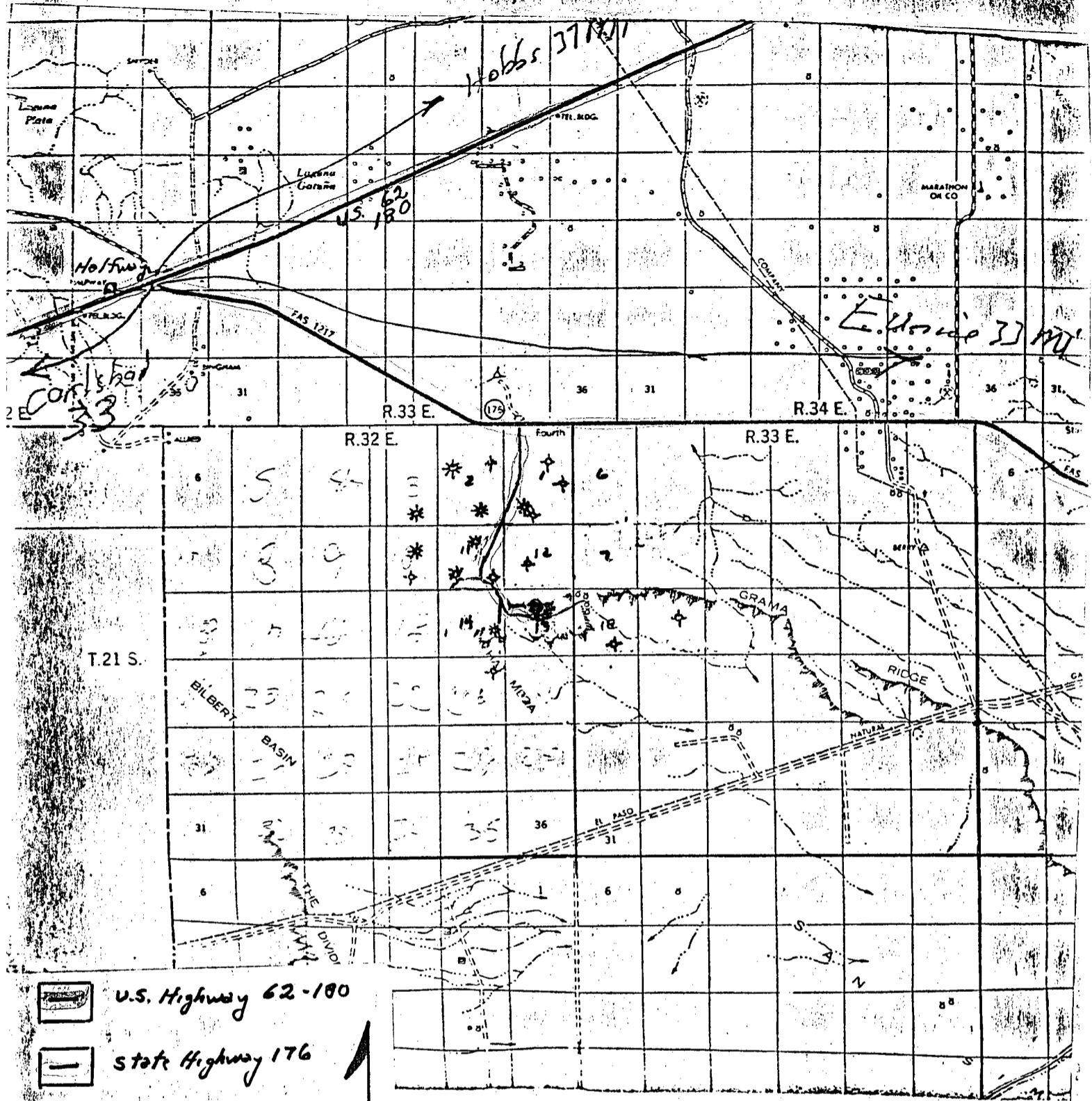
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plat are, to the best of my knowledge, true and correct; and, that the work associated 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


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
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 U.S. Highway 62-180

 State Highway 176

 Existing Access Roads

 Proposed New Road
300', 12' wide

 Proposed Drillsite N

 Dry Holes
Gas Wells

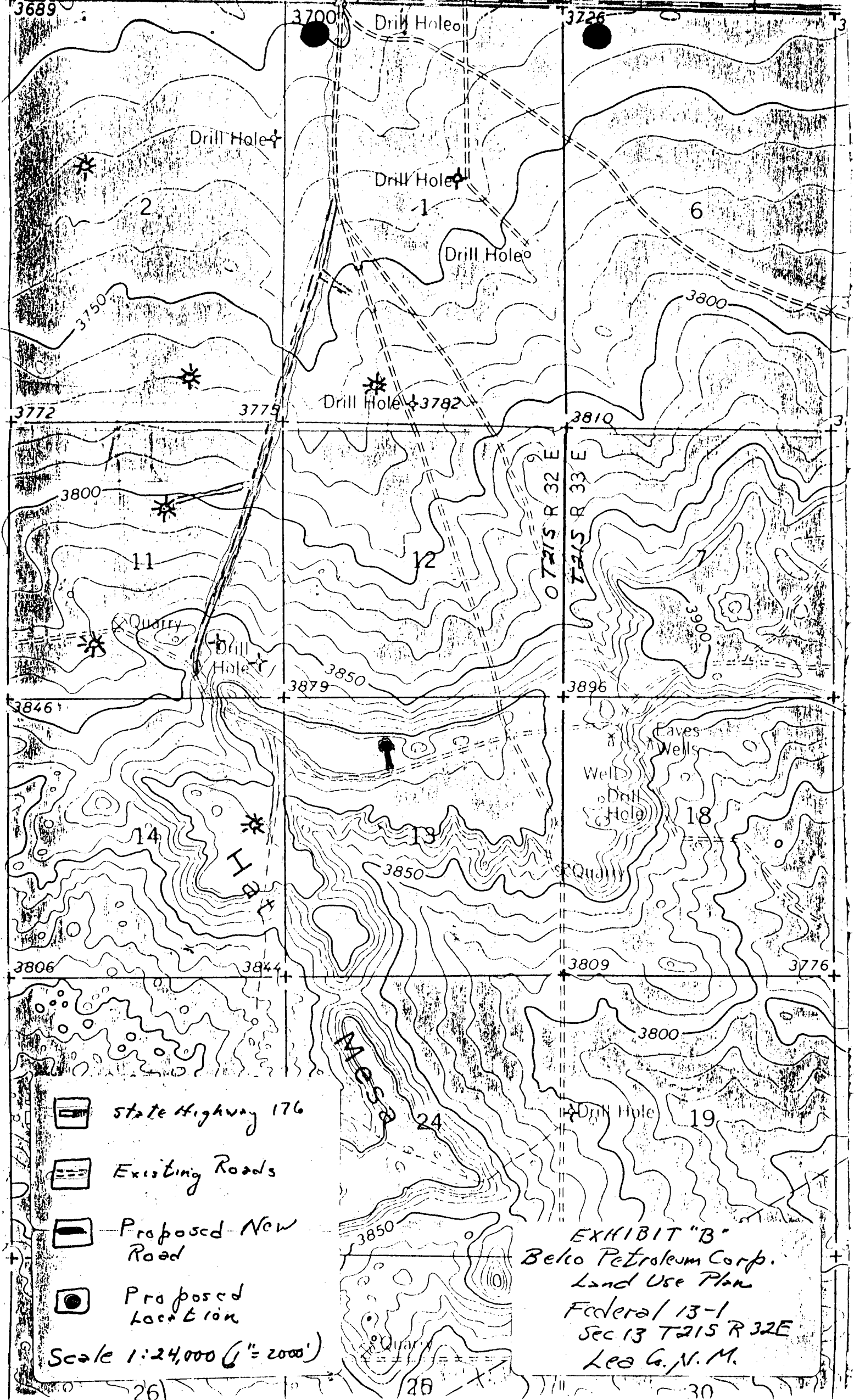
Scale 1" = 2 mi.





EXHIBIT "A"
Surface Use Plan
Belco Petroleum Corp
Federal 13-1
T 21 S R 32 E.
Lea Co., New Mexico

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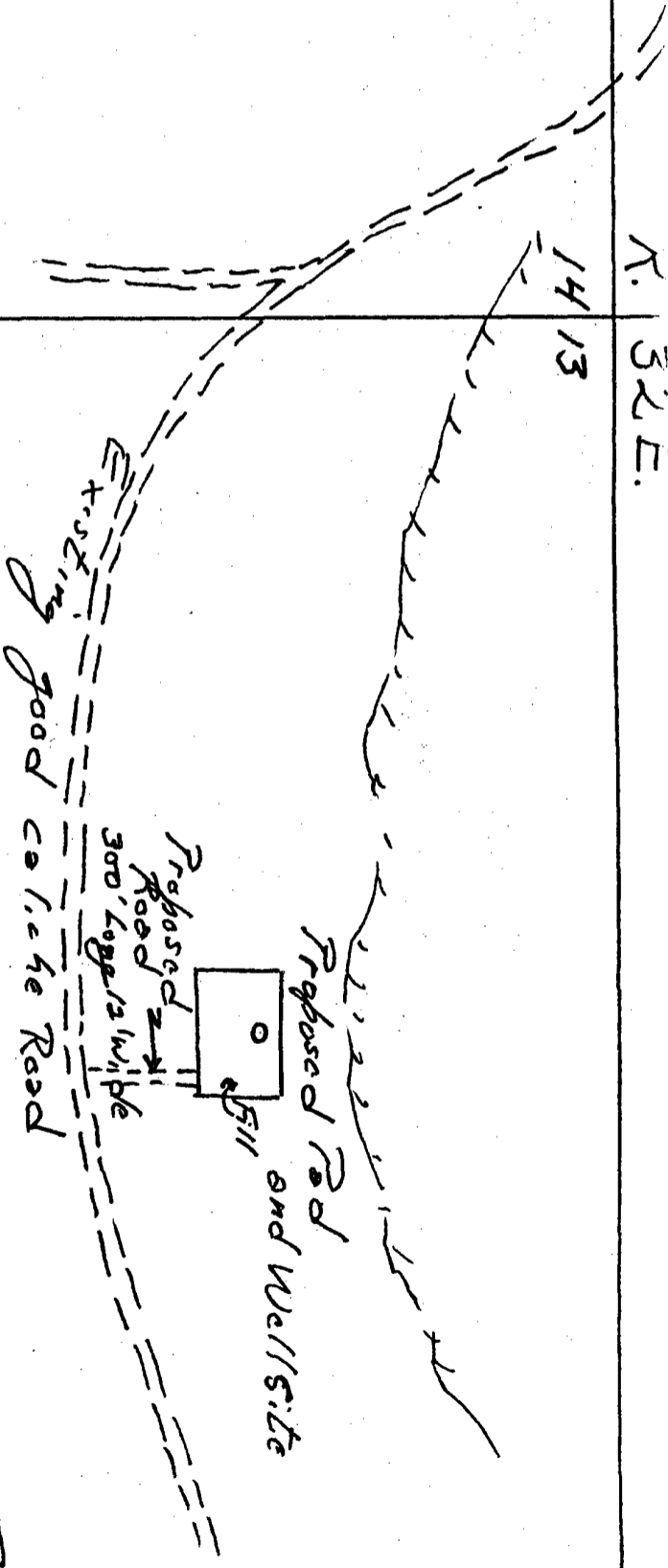
-  State Highway 176
-  Existing Roads
-  Proposed New Road
-  Proposed Location

Scale 1:24,000 (1" = 2000')

EXHIBIT "B"
 Belco Petroleum Corp.
 Land Use Plan
 Federal 13-1
 Sec 13 T215 R 32E
 Lea Co., N. M.

K. 32E.

14/13



U.S. NM 14155

14

Scale 1" = 500'



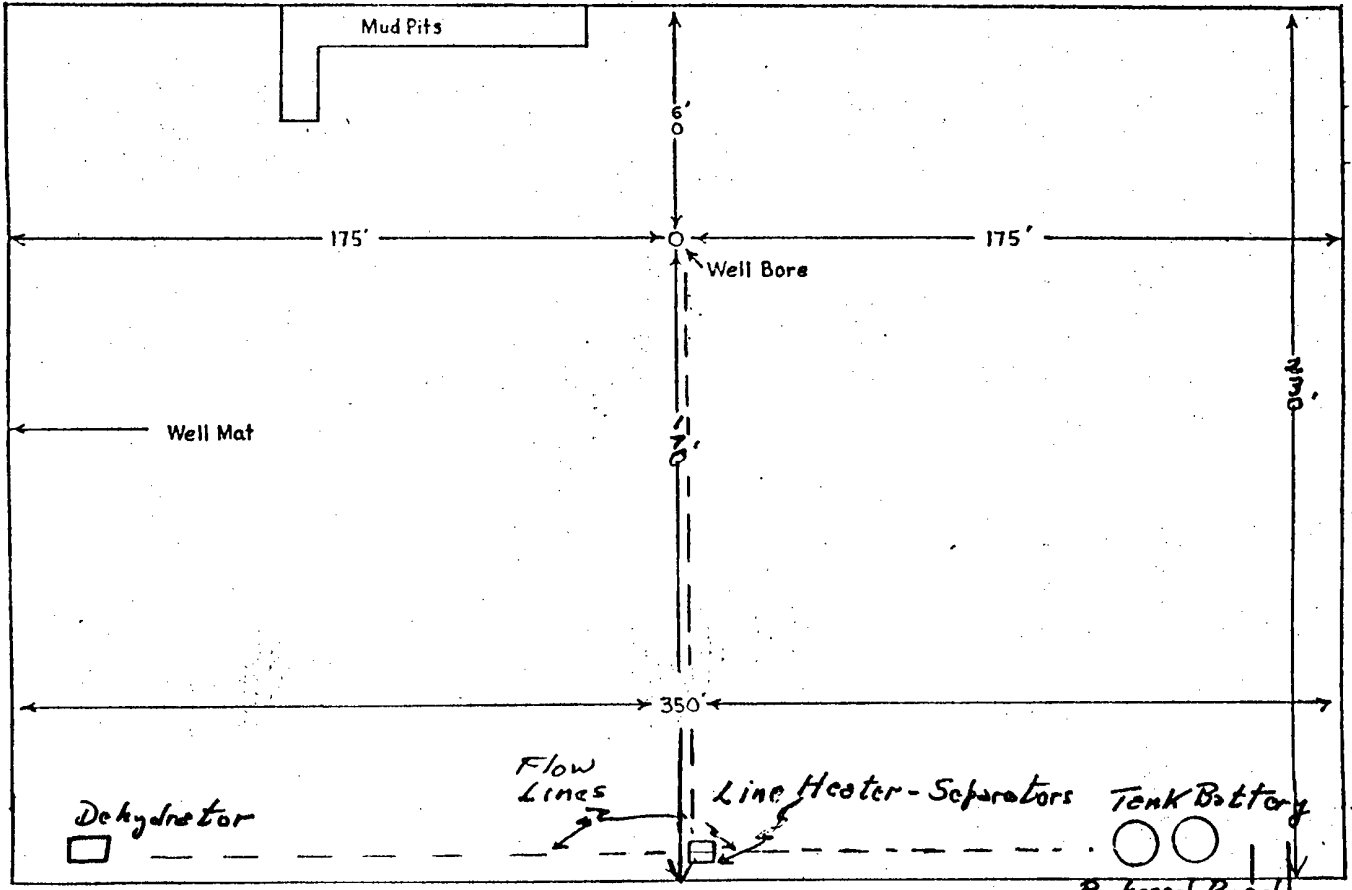
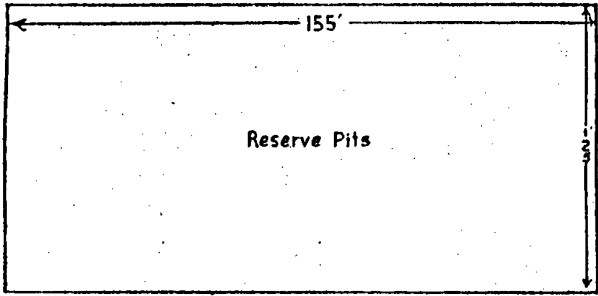
U.S. NM 14155

T. 21 S.

13

EXHIBIT "C"
 Proposed
 Backo Petroleum Corp
 Federal 13-1
 Sec 13 T21S R32E
 Lee Co, NM

Trash Pits



Scale: 1" = 50'

EXHIBIT D
Proposed
Belco Petroleum Corp.
Federal 13-1
Sec 13, T 21 S R 32
Lea Co., N.M.

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