

NM OIL CONS. COMMISS.
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Artesia, NM 88210

30-005-61210

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

HUSKY OIL COMPANY

RECEIVED

3. ADDRESS OF OPERATOR

600 S. Cherry St., Denver, Colorado 80222

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

At surface

660' FNL & 660' FWL, NW NW

At proposed prod. zone Same

NOV 10 1981
O. C. D.
ARTESIA, OFFICE

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

Approximately 14 miles to Roswell, New Mexico

15. DISTANCE FROM PROPOSED*

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

660'

16. NO. OF ACRES IN LEASE

1960'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160

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

13,000'

19. PROPOSED DEPTH

3900'

20. ROTARY OR CABLE TOOLS

Rotary

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

3572' GR

22. APPROX. DATE WORK WILL START*

12/15/81

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	750' 600'	Circ. to surface
7-7/8"	4-1/2"	10.5#	3900'	Apprx. 300 sx

We propose to drill the captioned well and test the Abo formation. We propose to test any shows deemed worthy of test and to set casing, as above, or to plug and abandon in accordance with instructions received from the U.S.G.S. An archaeological survey has been made and clearance recommended for the site and access road.

We propose to use the caliche pit in Section 7, T6S, R26E, NMPM, Chaves County. New Mexico Archaeological Services has also submitted a clearance report on this quarry.

The gas for the above well is not dedicated.

RECEIVED
OCT 2 1981Posted ID-1
API + NL Book
11-13-81OIL & GAS
U.S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

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

Vera Chandler

TITLE

Vera Chandler

Engineering Assistant

DATE September 30, 1981

(This space for Federal or State office use)

PERMIT NO.

APPROVED
AS AMENDED

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

NOV 3 1981

JAMES A. GILLHAM
DISTRICT SUPERVISOR

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

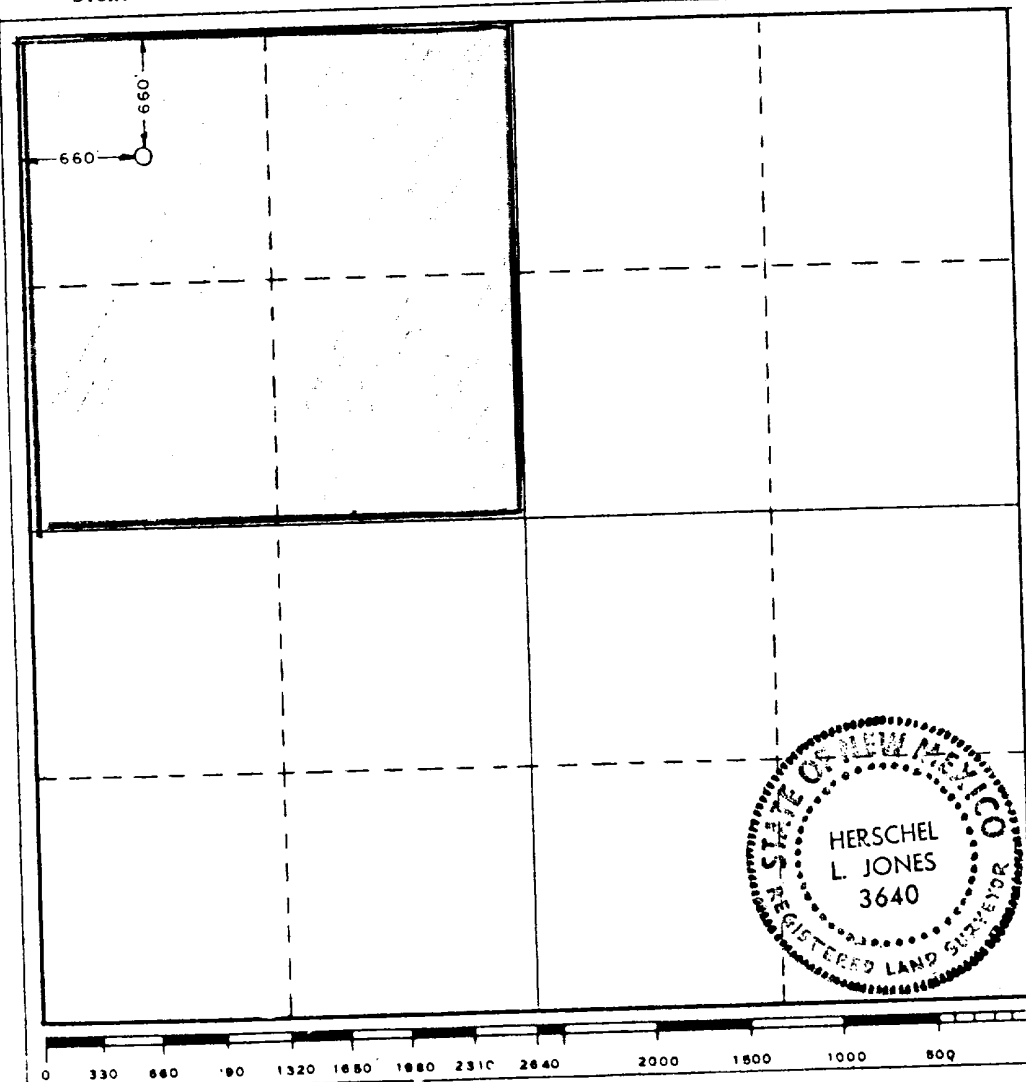
Operator HUSKY OIL COMPANY			Lease Bitter Lake Federal		Well No. 2
Unit Letter "D"	Section 24	Township 8 South	Range 24 East	County Chaves	
Actual Footage Location of Well: 660 feet from the North line and 660 feet from the West line					
Ground Level Elev. 3572.2	Producing Formation Abo	Pool Wildcat Lake Bitter Lake		Dedicated Acreage: 160 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
N/A
- 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? N/A

☐ 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

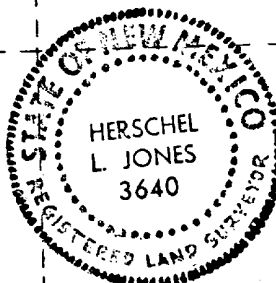
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name **L. L. Novacek**
 Position **L. L. Novacek Drilling Manager**
 Company **HUSKY OIL COMPANY**
 Date **September 30, 1981**

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 **Sept. 14, 1981**
 Registered Professional Engineer and/or Land Surveyor

Herschel L. Jones
 Certificate No **3640**



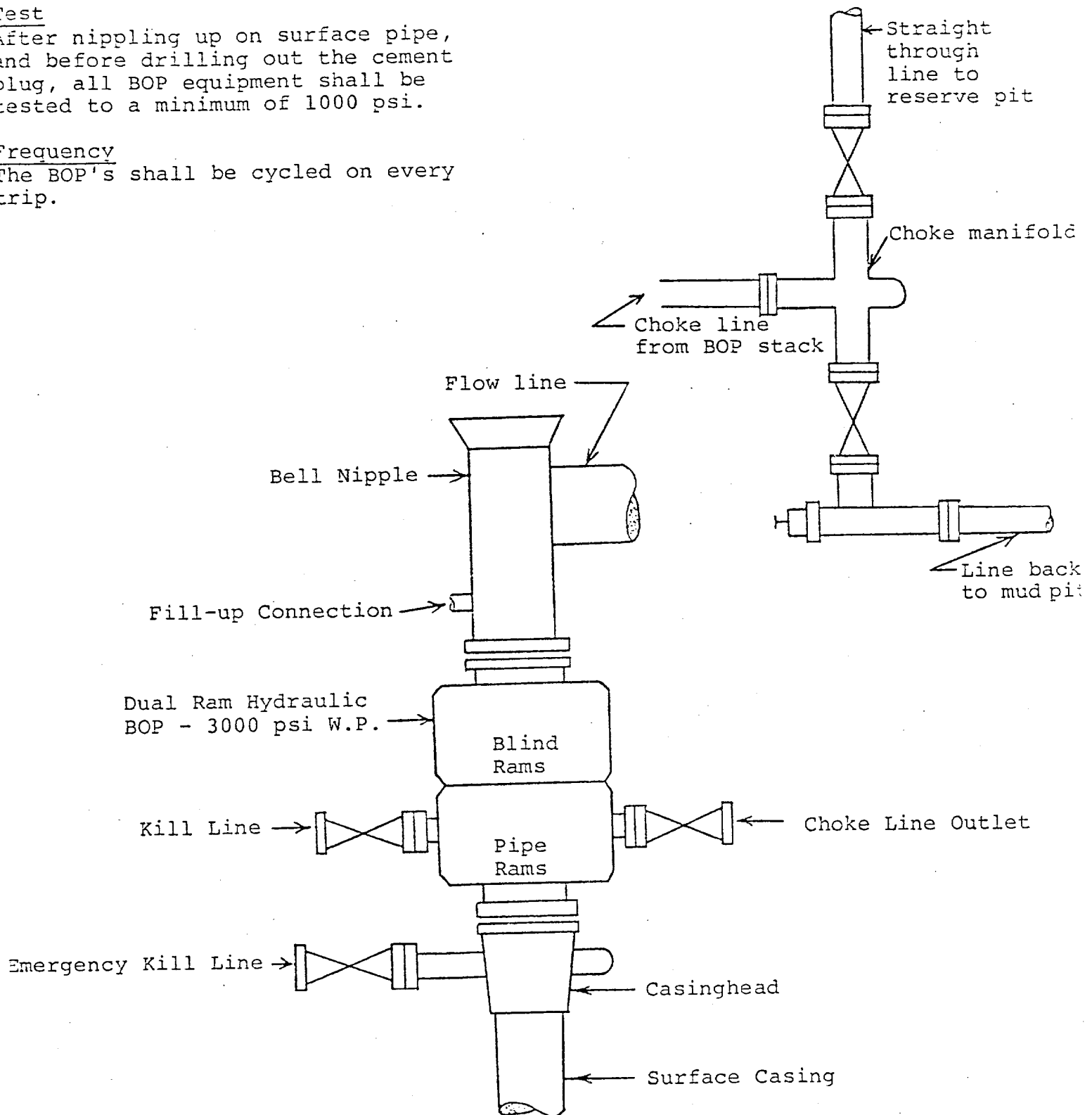
BOP REQUIREMENTS FOR
LOW PRESSURE WELLS

Test

After nipping up on surface pipe, and before drilling out the cement plug, all BOP equipment shall be tested to a minimum of 1000 psi.

Frequency

The BOP's shall be cycled on every trip.



Schematic Drawing
3000 psi - BOP Equipment

HUSKY OIL COMPANY
BITTER LAKE FEDERAL #2
Chavez County, New Mexico

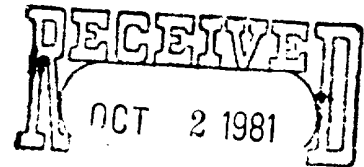
BL424

TEN-POINT PROGRAM TO ACCOMPANY FORM 9-331C

1. Surface Formation: Surface sands, gypsum, dolomite

2. Important Geological Formations:

San Andres	Surface
Glorieta	945
Tubb	2590
Abo	3295



3. Gas is expected in the Abo @ 3295'.

4. Casing Program:

8-5/8", 24# per ft., K-55, ST&C new casing to apprx. 600';
4-1/2", 10.5#/ft., K-55, ST&C new casing to apprx. 3900'.

5. Pressure Control:

8" x 8-5/8" screw-on casing head for drilling below surface casing.

8", 900 Series, 3000# WP dual ram hydraulic blowout preventers for drilling below surface casing. All choke lines, choke manifold, valves, fitting, etc. will have a minimum pressure rating of 3000 psi.

All BOP equipment will be pressure tested prior to drilling out the surface casing shoe.

6. Mud Program:

0 - 600': Mud at company discretion to maintain good hole conditions to run surface casing.

600' - TD: Use water.

7. Auxiliary equipment:

Kelly cock with stabbing valve on floor.

8. Testing, Logging, and Coring:

Coring: No cores are planned.

Logs as follows: Surface casing to TD: DLL - MSFL
Surface to TD: CNL - FDC

Testing: No DST's are planned.

9. Abnormal hazards:

Neither abnormal pressures, temperatures, nor potential hazards, such as H₂S gas is expected. The maximum BHP is 1677 psi at total depth in the Abo formation. This is a normal .43 psi per ft. gradient.

10. Anticipated spud date: December 15, 1981

11. Anticipated duration: 14 Days

EXHIBITS TO ACCOMPANY FORM 9-331C

- A. Location map with route marked.
- B. Topographic map section showing access roads and location.
- C. Proposed production facilities.
- D. Location layout.
- E. Map of location showing cuts and fills.
- F. Cross sections of location.

MULTI-POINT REQUIREMENTS TO ACCOMPANY FORM 9-331C

1. Existing Roads:

- A. See Exhibits "A" and "B".
- B. Main Roads:

Take U.S. #285 north out of Roswell for approximately 7-1/2 miles. Turn right (East) on a caliche road. Proceed approximately 2-1/2 miles (crossing an intersection at 2 miles) to a Y intersection. Take left road, proceeding Northeast approx-

imately 3 miles. Turn left on the Bitter Lake Federal #2 access road, and proceed 3300' West to the wellsite.

C. Access Roads:

A 3300' access road will be required. See Exhibits "B" and "C".

D. N/A

E. See Exhibit "B".

2. Planned Access Road:

A. Width: 12' crowned and ditched, total disturbance 20'.

B. Maximum Grade: 10%

C. Turnouts: None

D. Drainage design: No problems anticipated.

E. Culverts, cuts and fills: None anticipated.

F. Surfacing Materials: Caliche if required.

G. Gates, Cattle Guards, Fence Cuts: None

H. New or reconstructed roads: Centerline flagged.

3. Location of Existing Wells:

A. Water Wells: None

B. Abandoned Wells: None

C. Temporarily Abandoned Wells: None

D. Disposal Wells: None

E. Drilling Wells: None

F. Producing Wells: None

G. Shut-in Wells: None

H. Monitor Wells: None

4. Location of Existing or Proposed Facilities:

A. None within a one-mile radius.

B. Proposed Facilities:

Required production equipment will be determined following completion of the well.

Plans for Rehabilitation: The facility area will be rehabilitated by filling the pit, leveling, spreading topsoil, and reseeding according to BLM stipulations. (See Section 10)

5. Location and Type of Water Supply:

- A. We plan to purchase water from a nearby permitted source.
- B. We plan to truck purchased water as necessary.
- C. No water well on the location is anticipated.

6. Source of Construction Materials:

- A. through D. For the drilling operation it is anticipated that any construction materials needed will come from the proposed site. Any additional construction materials will be purchased from a commercial source.

7. Methods of Handling Waste Materials:

- A. Cuttings: Disposed of in reserve pit and buried.
- B. Drilling Fluids: Disposed of in reserve pit and buried after the pit has dried.
- C. Produced Fluids: Liquids produced during completion operations will be produced into tanks, the water drained to the pit and any oil saved.
- D. Sewage: Portable toilets.
- E. Garbage and other Waste Material: Disposal in a "burn" pit (enclosed with wire mesh screen) and ultimately buried.
- F. The location will be cleaned upon completion or abandonment of the well. All pits will be fenced and overhead flagging installed. After the reserve pit has dried, it will be filled, waste buried, and restoration done as per Section 10.

8. Ancillary Facilities: None.

9. Wellsite Layout:

- A. See Exhibit "E".
- B. See Exhibit "D".

C. See Exhibits "C" & "D"

D. Pits will be unlined.

10. Plans for Restoration of the Surface:

- A. The topsoil will be stripped and stockpiled on the south end of the location. Pits will be fenced on three sides for drilling operations. Upon completion or abandonment of the well, the pits will be fenced on all four sides, allowed to dry, then backfilled, burying waste, leveling and recontouring as is practical.
- B. The topsoil will be spread over that area (excluding that area required for production purposes if well is productive), and that area reseeded as per BLM specifications. The access road, if not needed, will also be reseeded.
- C. Upon release of the rig, the pits will be fenced and so maintained until cleanup. (See "A" above.)
- D. The pits will have overhead flagging installed if any oil is left on the surface.
- E. Restoration should be completed during the fall of 1982.

11. Other Information

- A. The location lies on flat spot with apparent slight drainage to the west.
- B. Primary use of the land is rangeland. Grazing Lessee is Mrs. Buck Spurrier of Roswell. Mrs. Spurrier rents the land to Dwight Sharp of Dexter, NM.
- C. An archaeological survey has been made by New Mexico Archaeological Services, Inc. Their report requesting clearance for this project has been filed.

12. Lessee's or Operator's Representative:

Vera Chandler
600 S. Cherry Street
Denver, Colorado 80222
Telephone: 303/370-1462

13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the drill-site and access road, that I am familiar

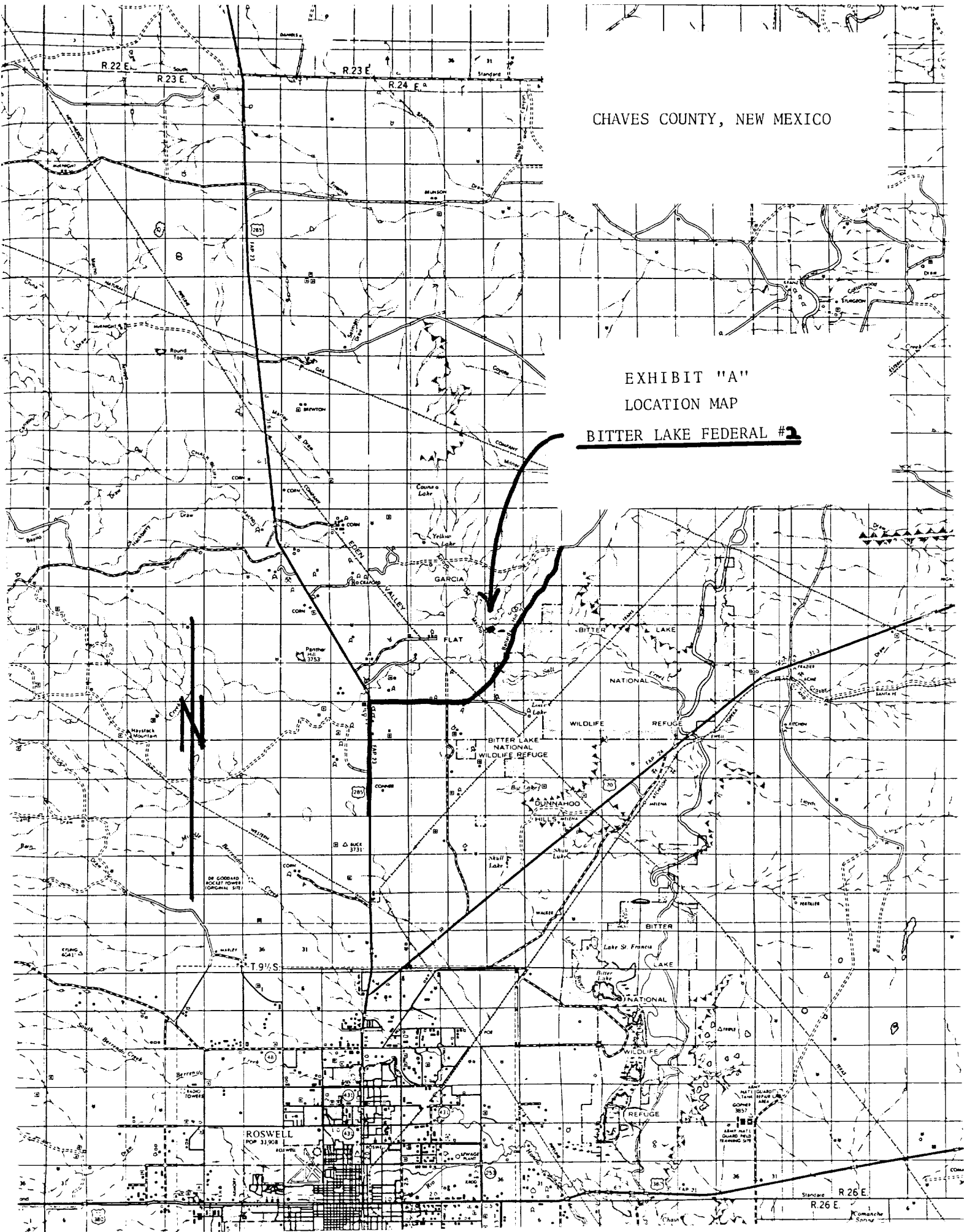
with the conditions which presently exist, that the statements made in this plan are to the best of my knowledge true and correct, and that the work associated with the operations proposed herein will be performed by Husky Oil Company and its contractors and subcontractors in conformity with this plan and conditions under which it is approved.

September 30, 1981
Date


Drilling Manager
Husky Oil Company

CHAVES COUNTY, NEW MEXICO

EXHIBIT "A"
LOCATION MAP
BITTER LAKE FEDERAL #1



E. BIT "B"
TOPOGRAPHIC MAP
BITTER LAKE FEDERAL #2

R 24 E

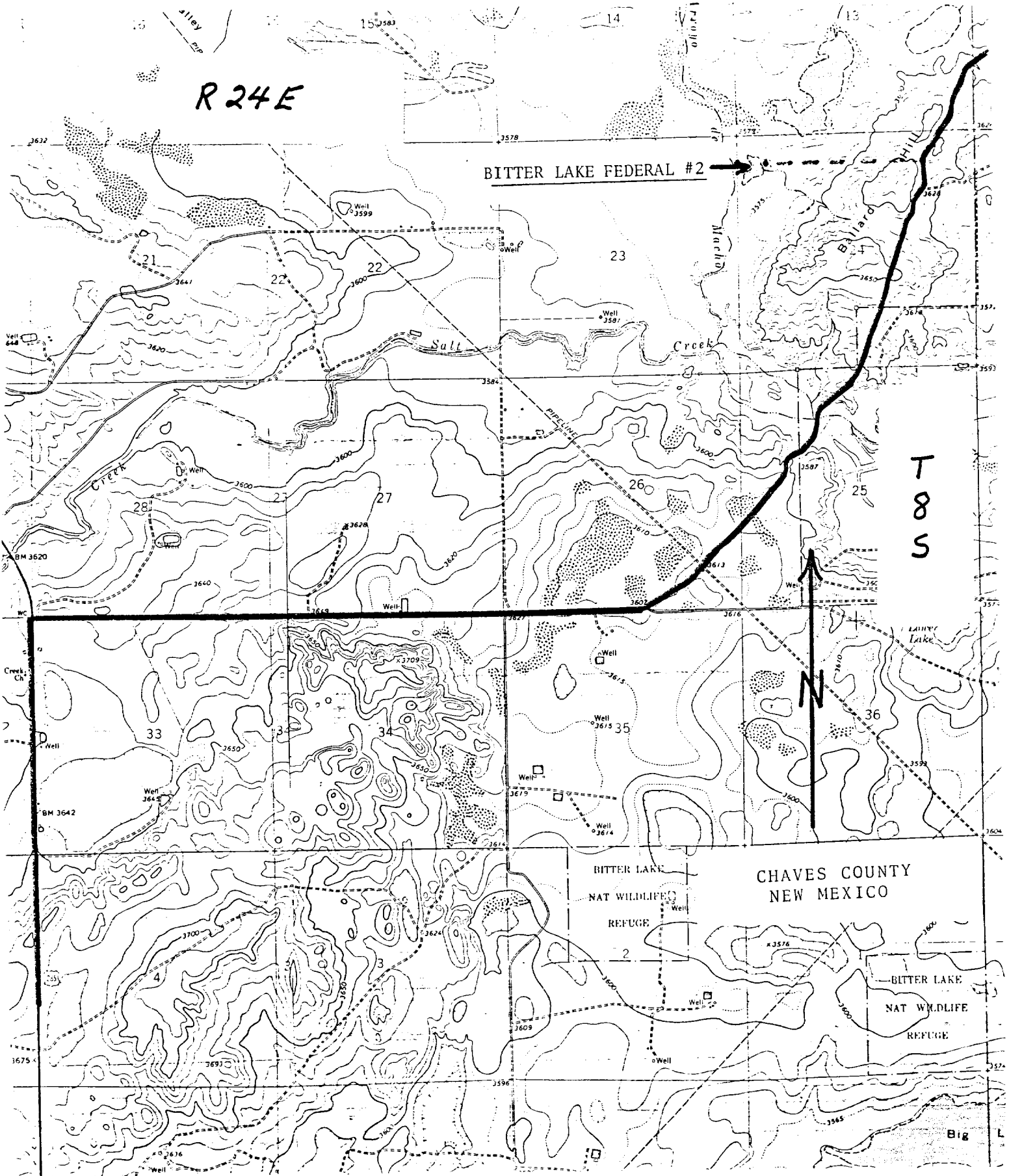
BITTER LAKE FEDERAL #2

T 8 S

CHAVES COUNTY
NEW MEXICO

BITTER LAKE
NAT WILDLIFE
REFUGE

BITTER LAKE
NAT WILDLIFE
REFUGE



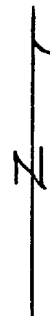
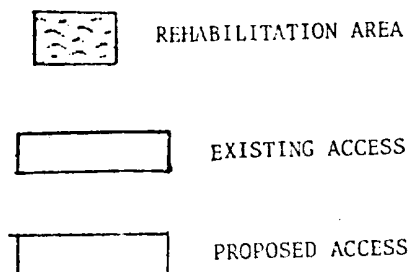
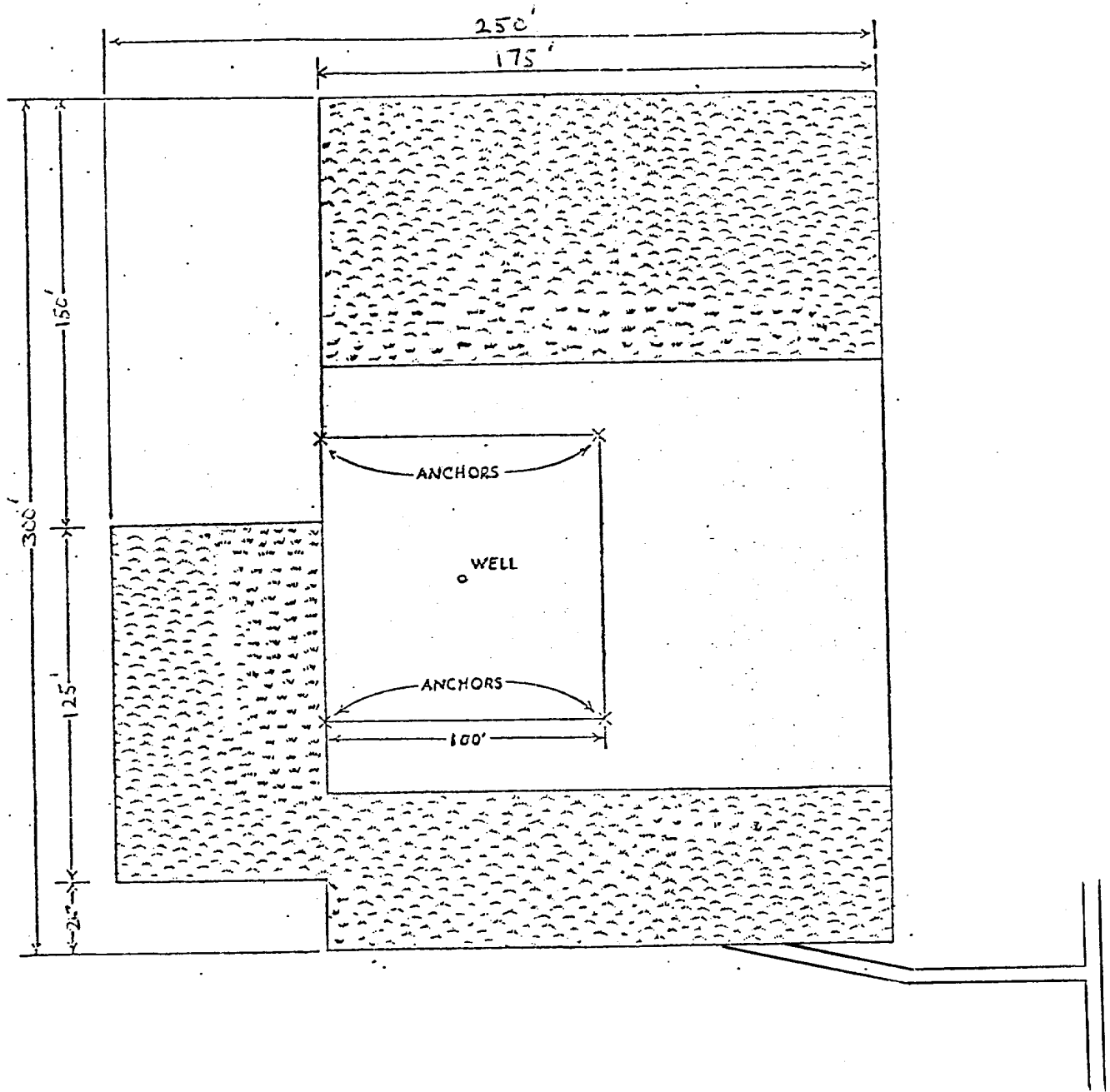


EXHIBIT "C"
PRODUCTION LAYOUT

BITTER LAKE FEDERAL #2

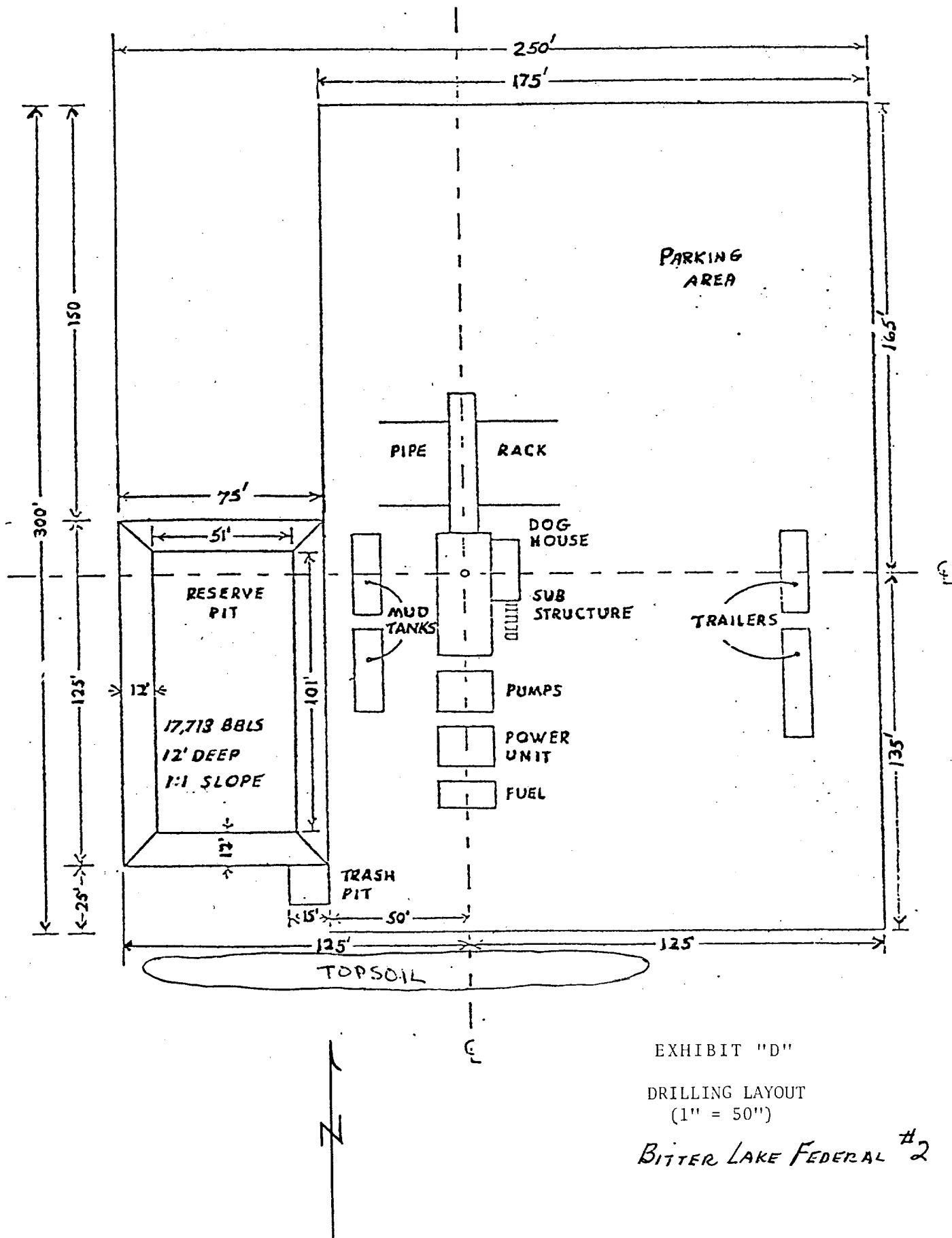


EXHIBIT "D"

DRILLING LAYOUT
(1" = 50")

BITTER LAKE FEDERAL #2

HUSKY OIL COMPANY

Bitter Lake **FEDERAL #2**

660 FNL and 660 FWL
Sec. 24, T.8 S., R. 24 W.
Chaves County, New Mexico

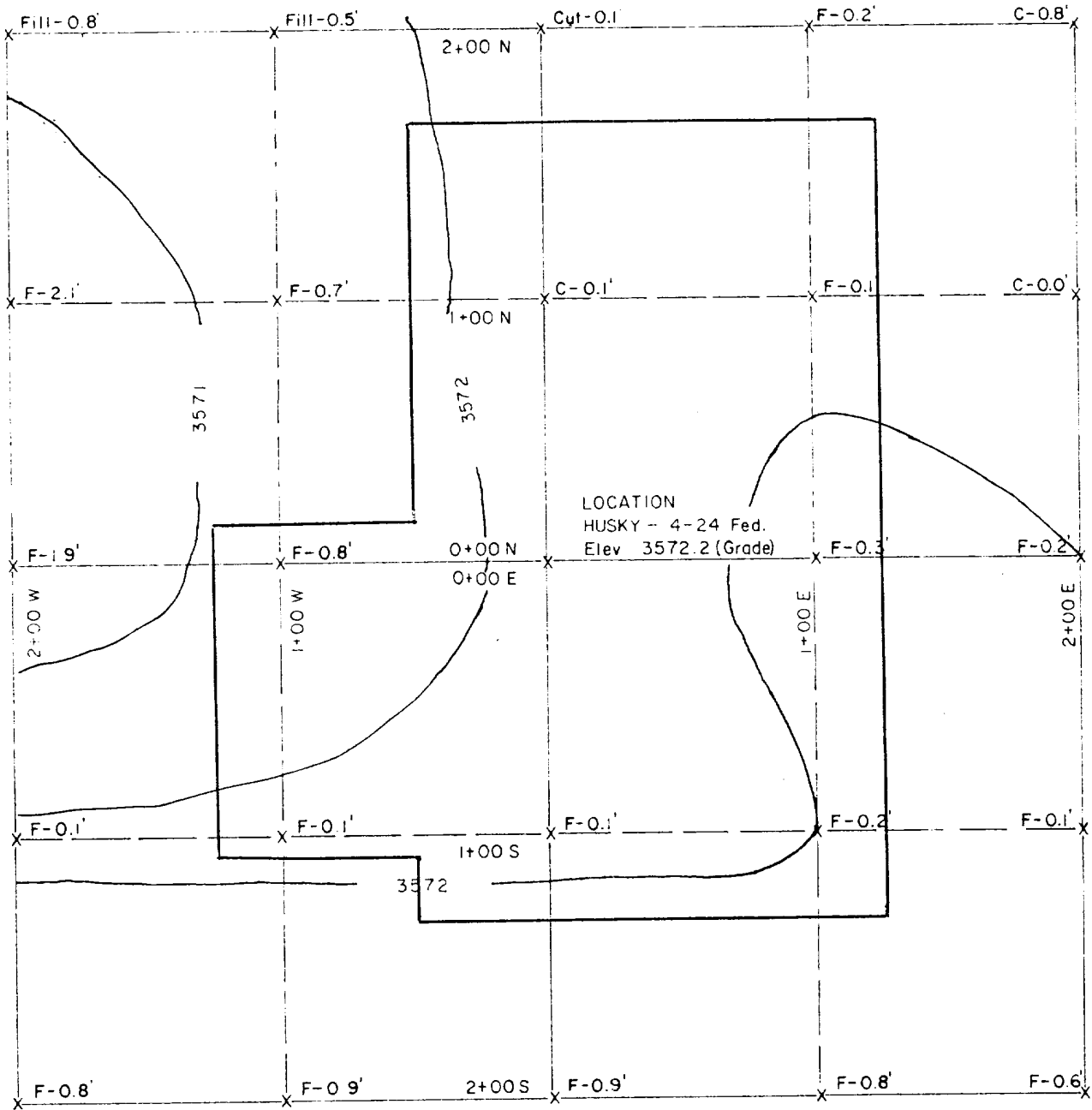


EXHIBIT "E"

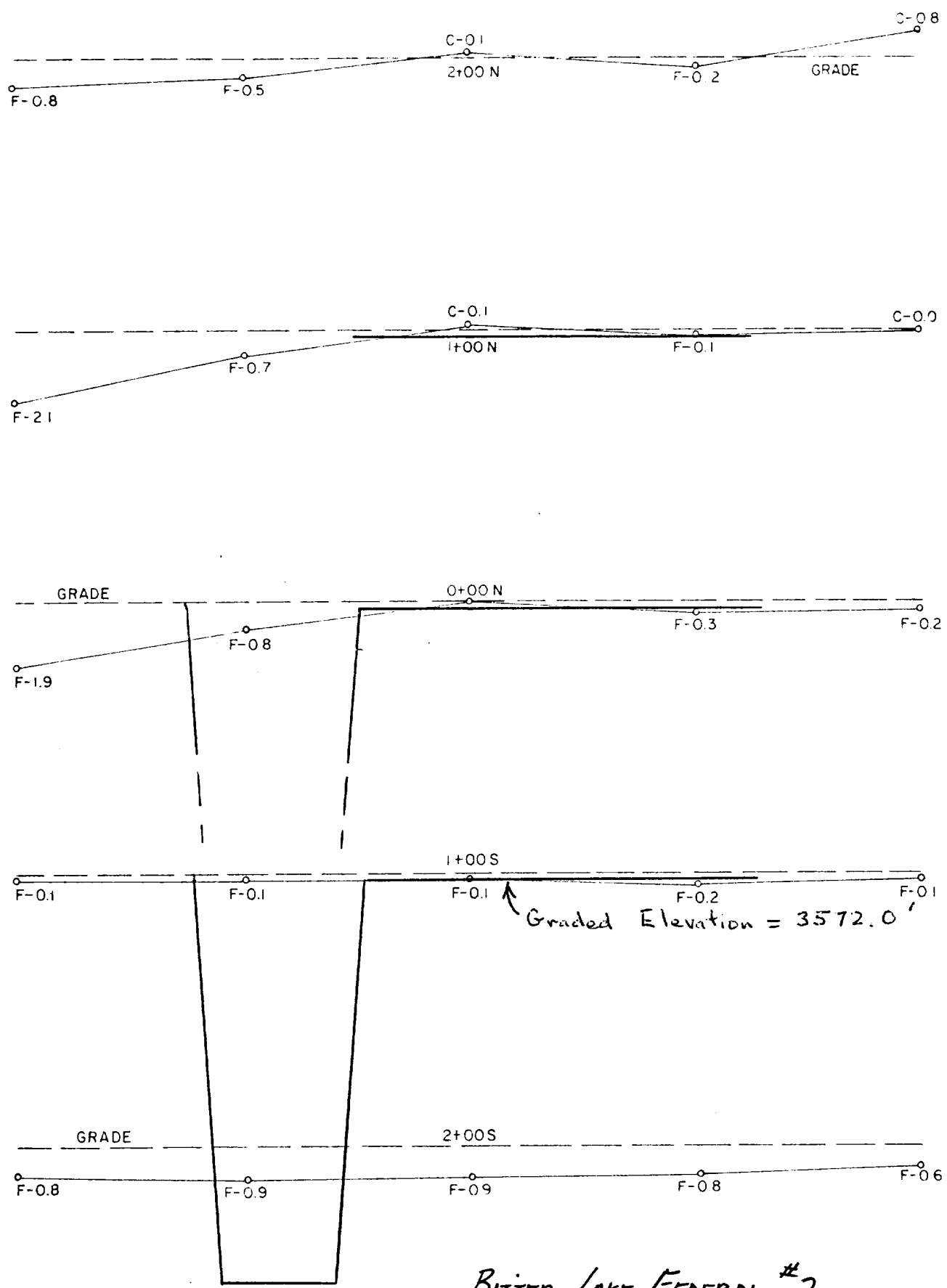
CERTIFICATE OF SURVEY:
I, Herschel L. Jones, hereby certify that I am the Registered Land Surveyor who prepared the above plat from field notes of actual surveys made under my direction and that the same are true and correct to the best of my knowledge and belief.



Herschel L. Jones
R.L.S. No. 3640

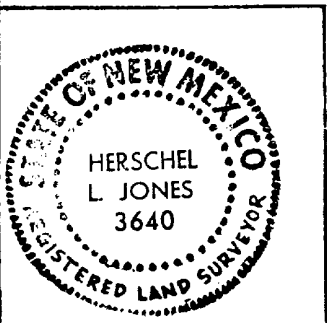
COMPANY	JOB	DATE	SCALE	FILE NO.
HUSKY OIL COMPANY	4-24 Fed. Bitter Lake	Sept. 21, 1981	1" = 60'	

GENERAL SURVEYING COMPANY



BITTER LAKE FEDERAL #2
EXHIBIT "F"

CERTIFICATE OF SURVEY:
I, Herschel L. Jones, hereby certify that I am the Registered Land Surveyor who prepared the above plat from field notes of actual surveys made under my direction and that the same are true and correct to the best of my knowledge and belief.



Herschel L. Jones
R.L.S. No. 3640

COMPANY	JOB	DATE	SCALE	FILE NO
HUSKY OIL COMPANY	4-24 Fed. Bitter Lake	Sept 21, 1981	1" = 4' (vertical) 1" = 60' (horizontal)	

GENERAL SURVEYING COMPANY