

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

AUG 24 1982

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 ☐

2. NAME OF OPERATOR: Holly Energy, Inc. ✓

3. ADDRESS OF OPERATOR: P. O. Box 726, Artesia, NM 88210

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.):
Artesia 1980 FNL & 2235 FWL

At proposed prod. zone: SAME

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE:
Approximately 11 miles SE Carlsbad, New Mexico

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. 660'
(Also to nearest dry unit line, if any.)

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

21. ELEVATIONS (Show whether DF, RT, GR, etc.):
3033.1 GR

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"	54.5# & 61#	2570	1325 sacks CIRCULAR
12 1/2"	9 5/8"	40#, 43.5# & 47#	9700 - DV Tool	5400' - 2500 sacks
8 1/2"	7 5/8"	33# FL4S	9300' to 11930'	(Liner) - 300 sacks
6 1/2"	5"	18# FL4S	11600 to 12700'	(Liner) - 200 sacks

Mud Program : Native Mud - 0 - 2570'
Fresh Water: 2570-9700' 8.4 lb. per gallon VIS-28 N.C.
Brine Water: 9700-11300' 9.8 lb. per gallon VIS 28 N.C.
Brine Water: 11300-11930' 11.0 lb. VIS 38 20 cc or less
Brine Water: 11930 - TD 9.6 lb. VIS 34 6 cc or less

BOP Program: One (1) Hydril 10" Type B Both Series, Hydraulic operator
One (1) Schaffer Double 10" Type B

Gas 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: Robert Loyd TITLE District Superintendent DATE June 1, 1982

(This space for Federal or State Approval)
APPROVED (Orig. Sgd.) GEORGE H. STEWART

PERMIT NO. APPROVAL DATE
AUG 19 1982
APPROVED BY: JAMES A. GILLHAM
CONDITIONS OF APPROVAL, IF ANY: DISTRICT SUPERVISOR

Rooted 101
API 11 1/2"
Backs
8-26-82

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form O-101
Supersedes O-126
Effective 1-1-81

THIS PLAT IS TO BE FILED IN THE PUBLIC RECORDS OF THE SECRETARY

HOLLY ENERGY CORP.

LOVING FED. COM.

Well No. 1

23 SOUTH

28 EAST

EDDY

1980

NORTH

2235

WEST

MORROW

Und.
NORTH LOVING MORROW

Dedicated Acreage

320

Acres

The shape and area of the surface well to be located by colored pencil or hatchure marks on the plat below.

The owner of the surface well to be located hereon and identify the ownership thereof (both as to working and non-working interests).

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X Consolidation Communitization

The owner of the surface well to be located hereon and identify the ownership thereof (both as to working and non-working interests).

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AMOCO NM32636	GULF NM18038	HOLLY ENERGY, INC. NM 13233

CERTIFICATION

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

Robert Loyd

Robert Loyd

Position

District Superintendant

Company

Holly Energy, Inc.

Date

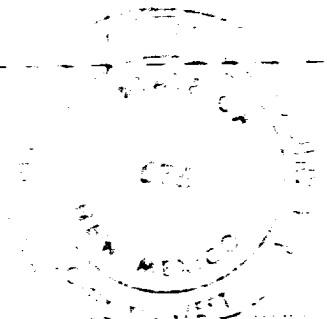
June 1, 1982

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

5-6-82

Registered Professional Engineer
and Land Surveyor



APPLICATION FOR DRILLING

Holly Energy Inc.
Loving Fed Com #1
Section 4 T-23S R-28E
Eddy County, New Mexico

In conjunction with form 9-331C, application for permit to drill subject well in Section 4, Township 28 South, Range 28 East, Eddy County, New Mexico, Holly Energy, Inc., submits the following 12 items of pertinent information in accordance with U.S.G.S. requirements:

1. The geologic surface formation is quaternary alluvium.
2. The estimated tops of geologic markers are as follows:

Delaware Sand	2523
Hone Springs	6024
Wolfcamp	9514
Strawn	11114
Atoka Clastics	11340
Furrow	11920
3. The estimated depths at which anticipated water, oil or gas formations are expected to be encountered are:

Water:	at approximately 300'
Oil or Gas:	3100'
4. Proposed Casing Program: See form 9-331C
5. Pressure Control Equipment: See Form 9-331C and Exhibit E
6. Mud Program: See form 9-331C
7. Auxiliary Equipment: Blowout preventer, Inside Blowout Preventer, Kelly Cock.
8. Testing, Logging and Coring Program:

Pressure test:	Surface casing to 1000 psig and production casing to 2000 psig
Drilling samples:	10' samples 2570' to TD
Electric Logging:	Dual Lateral log and compensated Neutron Log formation and Density log 2570' to 9700' and 9700' to 11930 and 11930 to TD
	CLN-gamma ray TD to surface
9. Abnormal pressures are expected in the Atoka at approximately 11,340' (See 9-331C)
10. Anticipated Starting Date: June 30, 1982

7-22-5

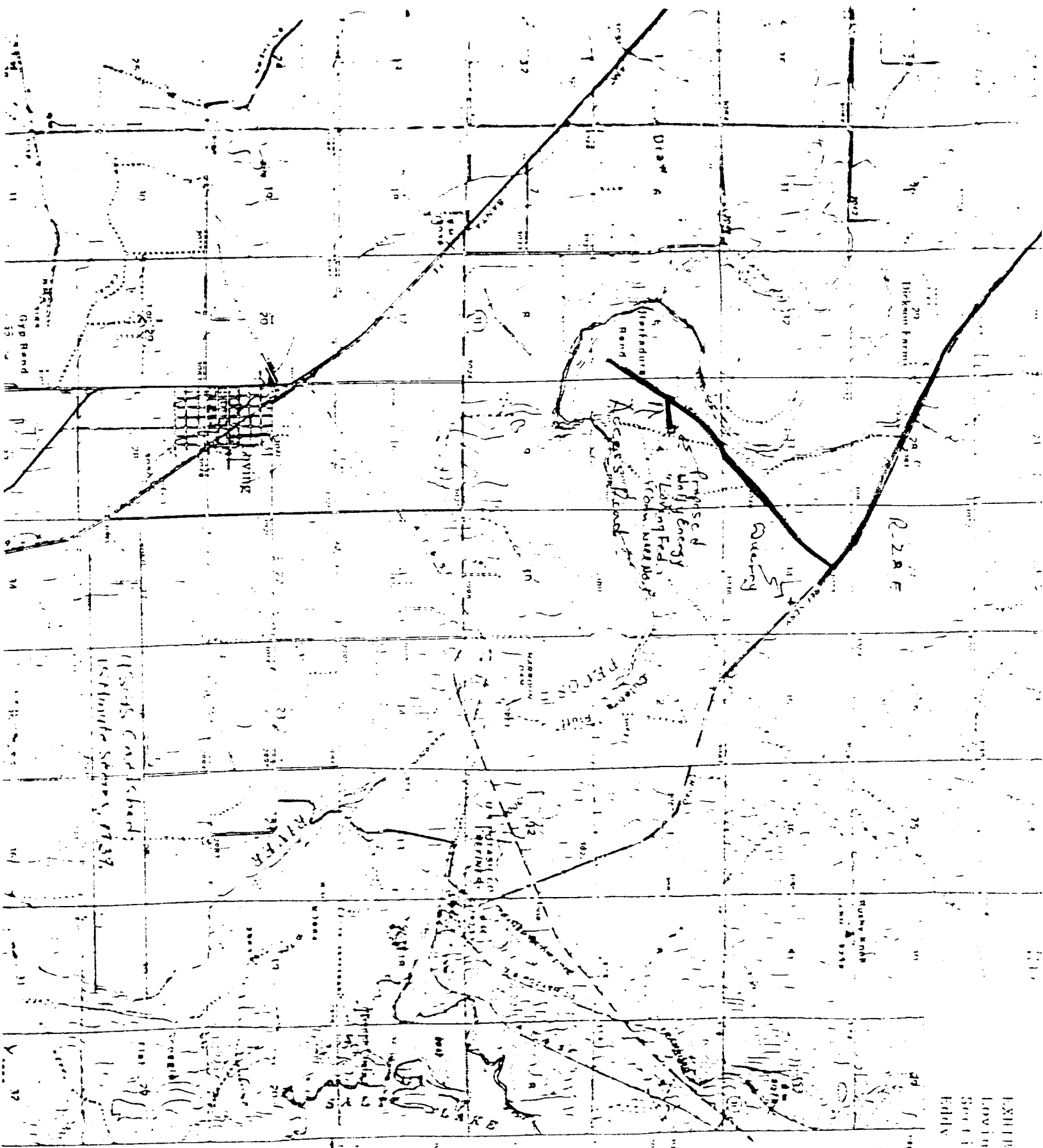
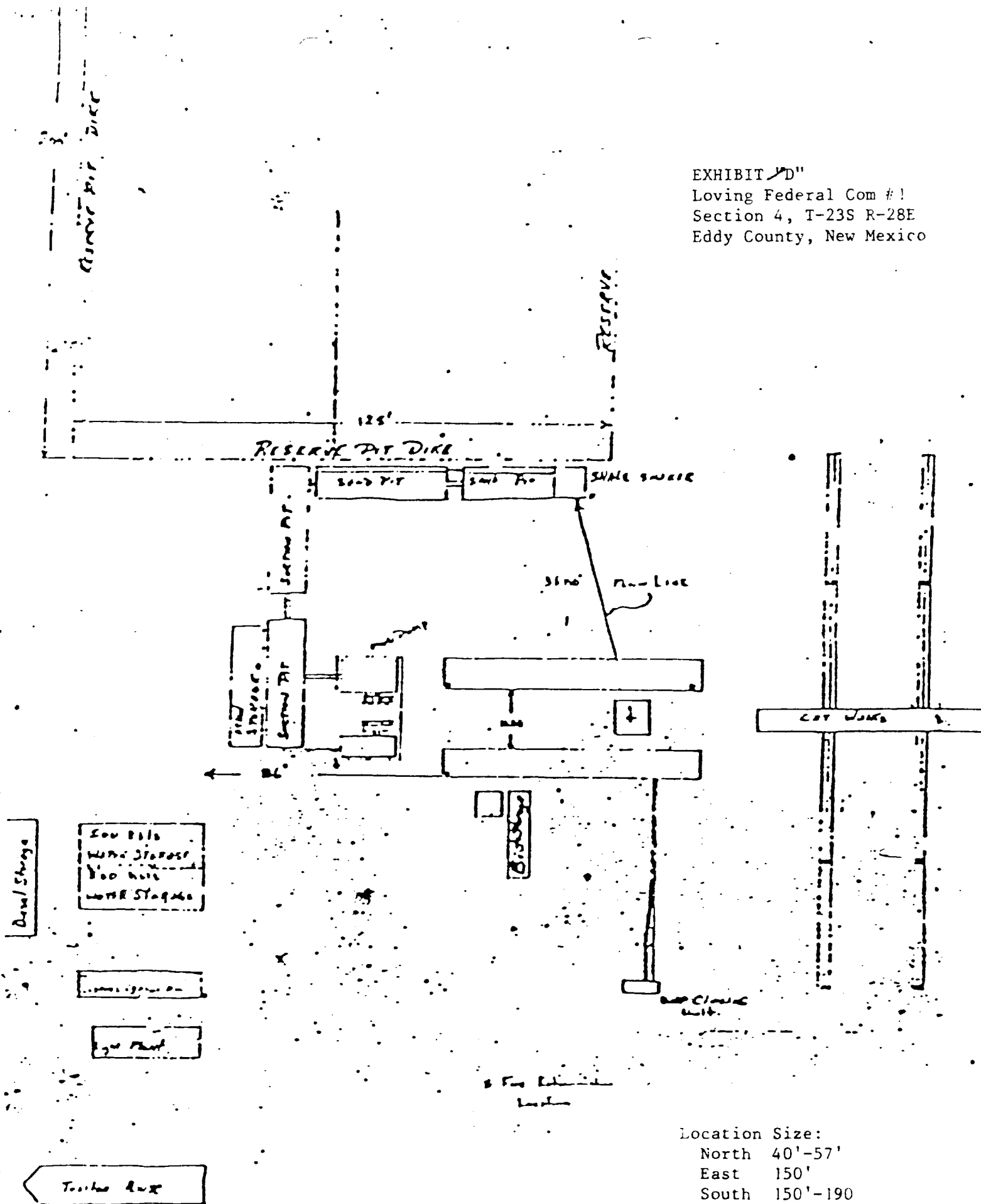
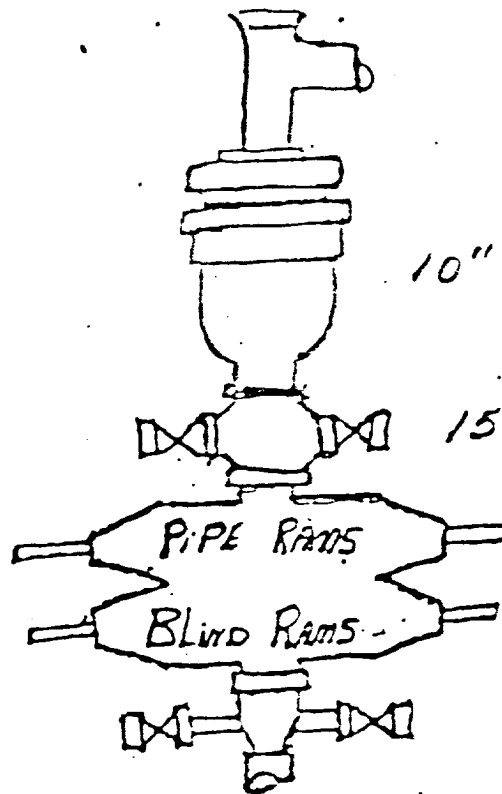


EXHIBIT "D"
 Loving Federal Com #1
 Section 4, T-23S R-28E
 Eddy County, New Mexico



Location Size:
 North 40'-57'
 East 150'
 South 150'-190'
 West 140'

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10" 1500S HYDRAIL GK

15005 DRILLING SPOOL

10" 1500S SHAFFER
DOUBLE HYDRAULIC
TYPE B