Form 9-331 C
(May 1963)

NM OIL CONS. COMMISSION
Drawer DD
Artesia, NM 88210

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

30-015-26309

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL
OIL WELL [ ] GAS WELL [X] OTHER SINGLE ZONE [ ] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR
Oryx Energy Company

RECEIVED
MAR 16 '90
O. C. D.
ARTESIA, OFFICE

3. ADDRESS OF OPERATOR
P. O. Box 1861, Midland, Texas 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface
B, 1980' FEL & 810' FNL
At proposed prod. zone
Unit B

5. LEASE DESIGNATION AND SERIAL NO.
LC-028731-B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Delta Wing Federal

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Grayburg-Morrow

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
15, T-17-S, R-29-E

12. COUNTY OR PARISH
Eddy

13. STATE
New Mexico

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
3 Miles West & 1/2 Mile North of Loco Hills

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
1830

16. NO. OF ACRES IN LEASE
~~1600~~ 1720

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.

19. PROPOSED DEPTH
11,200

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
3590.8' GR

22. APPROX. DATE WORK WILL START*
Upon Approval

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"	54.5#	400'	425 Surf TOC CIRCULATE
11"	8-5/8"	32#	~~4,000~~ 4,500'	~~1500~~/632 Surf TOC CIRCULATE
7-7/8"	5-1/2"	17#	10,950 or @ T.D.	1025 6800' TOC

SJS

Post ID-1
3-23-90
New Loc & API

RECEIVED
MAR 2 11 05 AM '90
CARLSBAD, NEW MEXICO

RECEIVED
MAR 23 1990
O. C. D.
ARTESIA, OFFICE

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
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 Maria L. Perez TITLE Proration Analyst DATE 1-24-90

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY Amendra Porenta TITLE AREA MANAGER CARLSBAD RESOURCE AREA DATE 3-14-90

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Depart.

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator	Lease	Well No.
Oryx Energy Company	Delta Wing Federal	1

Unit Letter	Section	Township	Range	County
B	15	17 South	29 East NMPM	Eddy

Actual Footage Location of Well:
810 feet from the North line and 1980 feet from the East line

Ground level Elev.	Producing Formation	Pool	Dedicated Acreage:
3590.8	Morrow	Grayburg-Morrow	320 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

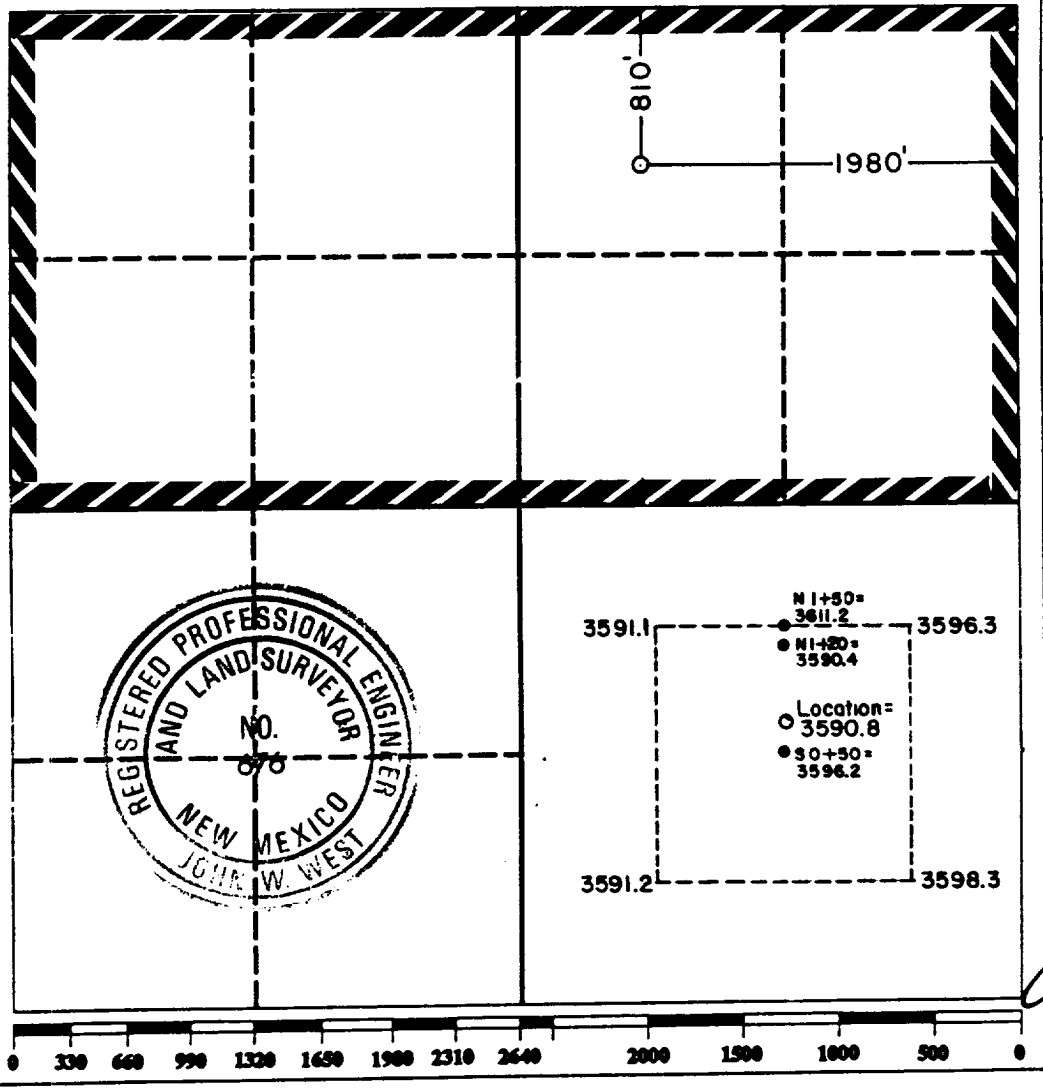
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?

☑ Yes ☐ No If answer is "yes" type of consolidation LC-028731-B & NMNM4200

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 interest, has been approved by the Division.



OPERATOR CERTIFICATION

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

Signature: Maria L. Perez
Printed Name: Maria L. Perez
Position: Proration Analyst
Company: Oryx Energy Company
Date: 2-12-90

SURVEYOR CERTIFICATION

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 supervison, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: Janurary 12, 1990

Signature & Seal of Professional Surveyor: John W. West

Certificate No. JOHN W. WEST, 676
RONALD J. EIDSON, 3239

128630

TEN POINT DRILLING PLAN
ORYX ENERGY COMPANY

DELTA WING FEDERAL #1
810' FNL & 1980' FEL
SECTION 15 - T17S - R29E
EDDY COUNTY, NEW MEXICO

1. Geologic Surface Formation: Quaternary

2. Estimated Tops of Important Geologic Markers:

Queen*	1700	Atoka Shale	10,250
San Andres*	2500	Atoka "C" Sand*	10,450
Abo	6100	Middle Morrow*	10,720
Wolfcamp*	7290	Lower Morrow*	10,820
Strawn*	10,000	Barnett	10,885
		T.D.	10,950

3. Estimated Depth of Anticipated Water, Oil, Gas or Minerals:

Possible hydrocarbon-bearing formations are indicated with an asterisk above.

4. Proposed Casing Program:

Size	Csg Seat	Footage	Weight	Grade	Connection
13-3/8	400	400	54.5#	K-55	STC
8-5/8	~~4,000~~ 4,500	~~4,000~~ 4,500	32.0#	K-55	STC
5-1/2	10,950	950	17.0#	K-55	BTC
		8,300	17.0#	K-55	LTC
		1,700	17.0#	N-80	LTC
2-7/8		10,700	6.5#	N-80	EUE

5. Proposed Cementing Program:

13-3/8" Cement to surface 400' of 13-3/8" casing in a 17-1/2" hole w/ 425 sacks Class 'C' + 1/4#/sx cellophane flakes + 2% CaCl2.
Cement Properties: Weight 14.8 ppg, Yield 1.32 cu.ft./sx
Per Cent Excess: 100% over theoretical fill for 13-3/8" x 17-1/2" annulus

5. Proposed Cementing Program: (cont'd)

8-5/8" Cement to surface with ~~1200~~ 1332 sx 65:35:6 'C' lite + 10% BWOW salt + 10#/sx gilsonite, tail in with 300 sx Class 'C'.
Top of tail cement to be at ~~3500'~~ 4000'.
Cement Properties: Lead slurry; 12.2 ppg, 2.29 cu.ft./sx
Tail slurry; 14.8 ppg, 1.32 cu.ft./sx
Per Cent Excess: 200% over theoretical fill for 8-5/8" x 12-1/4" annulus. Actual volume to be adjusted by fluid caliper + 15%.

5-1/2" Cement to 6800' with 1025 sx 50:50:2 'H' pozmix + fluid loss additives + dispersants.
Cement Properties: 14.2 ppg, 1.26 cu.ft./sx
Per Cent Excess: 80% over theoretical fill for 5-1/2" x 7-7/8" annulus. Actual volume to be adjusted by electric caliper + 15%.

6. Mud System and Characteristics:

From	To	Type	Wt.	Vis	WL
0	400	Fresh Water w/Gel & Lime sweeps	8.3-8.6	28	NC
400	4,000	Sat. Brine w/Lime & Paper sweeps	10.0-10.3	28	NC
4,000	9,000	Fresh Water w/Paper & Lime sweeps	8.4-8.5	28-30	NC
9,000	10,950	Cut Brine + 2% KCL & Drispac	8.8-9.3	32-36	10-12

7. Blowout Preventer and Auxillary Equipment:

B.O.P. and Choke Manifold will be set up as in Exhibit 'D'.

Accumulator volume will be sufficient to function annular preventer and rams with a 50% reserve.

A full-opening safety valve to fit all drill pipe connections in use will be kept on the floor in the open position at all times.

An Upper and Lower Kelly Cock will be used.

PVT, Hydraulic Choke, and Mud Gas Seperator will be installed and in service by 8000'. Flow Sensors will be installed by 6100'.

8. Test Procedures and Drills:

Ram type preventers will be tested to working pressure, or 80% of burst rating of casing, whichever is less. Annular preventer will be tested to 50% of working pressure. Pipe rams will be function tested daily. Blind rams will be function tested on trips. Approved shut-in procedure will be posted on the rig floor. Weekly B.O.P. drills will be held with each crew.

9. Testing Program:

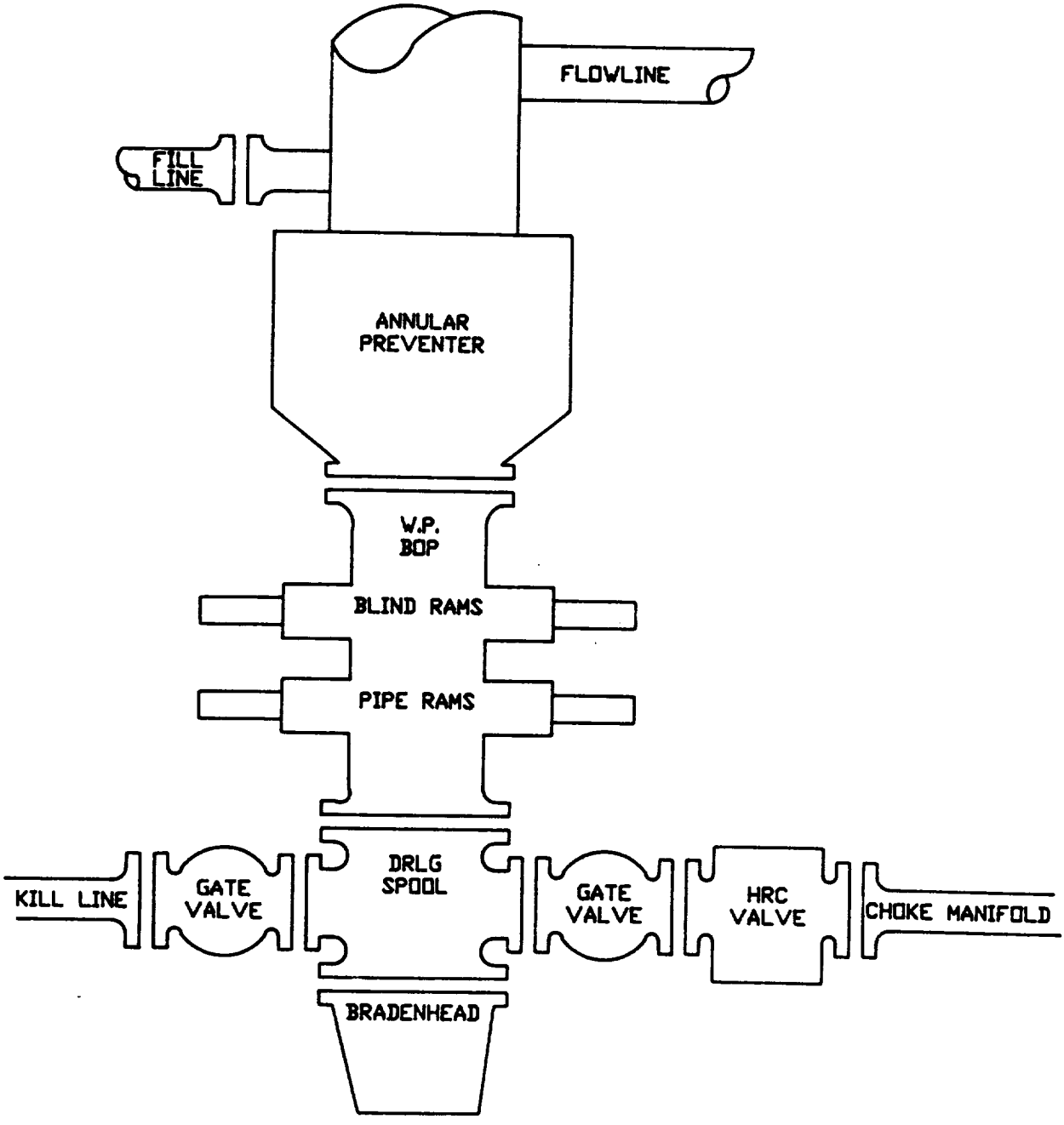
Drillstem Tests may be run from 7500' to total depth as dictated by shows. Such tests, if performed, will be conducted using prudent industry practices.

Openhole Logging Program: Dual Laterolog/MSFL from TD to 4000', Density/Neutron Porosity from TD to 8000', Wireline Formation tests, Sidewall Cores, and Sonic Logs may be run.

10. Potential Hazards:

No H2S or abnormal pressures are anticipated at this location. Maximum anticipated pore pressures are 9.0 ppg equivalent mud weight.

MINIMUM STACK TO BE EMPLOYED FROM 400' TO T.D
ALL COMPONENTS 3000 PSI WORKING PRESSURE



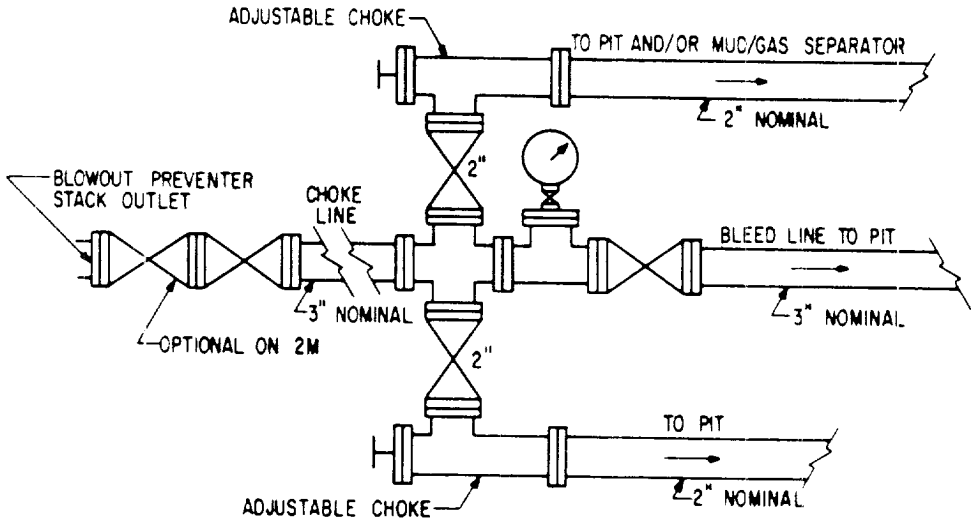


FIG. 3.A.1

TYPICAL CHOKE MANIFOLD ASSEMBLY
FOR 2M AND 3M RATED WORKING
PRESSURE SERVICE — SURFACE INSTALLATION

MULTI-POINT USE AND SURFACE OPERATIONS
ORYX ENERGY COMPANY

DELTA WING FEDERAL #1
810' FNL & 1980' FEL
SECTION 15 - T17S - R29E
EDDY COUNTY, NEW MEXICO

1. Existing Roads:

The proposed wellsite, existing roads to the proposed location and a topographical map indicating the proposed location are shown in Exhibits #1 and #2.

Directions are as follows: From Loco Hills, New Mexico, go west approximately 4 miles on Highway 82; then North approximately 1-1/2 miles on an Improved Road; then West approximately 1/2 mile; then turn South into the location.

2. Planned Access Roads:

Access to location will be via an existing access road to the M. Dodd #16.

3. Location of Existing Wells:

Existing wells within a one mile radius are shown in Exhibit #3.

4. Location of Existing and or Proposed Facilities:

A. This wellsite is in an existing waterflood. Numerous facilities are located within a one mile radius. Their exact location cannot be determined from available maps. A Battery is located in the NW/4 of the SW/4 of Section 14 T-17-S R-29-E.

B. If the proposed well is productive, plans are to construct a tank battery at the well pad. No additional surface disturbance will occur.

5. Location and Type of Water Supply:

Fresh water will be purchased from the City of Carlsbad, New Mexico. A tap will be made into their line at Kewanee Road, and a plastic line will be laid along the roadbed on the northern portion of Sections 14 and 15, and along the access road into the location.

6. Source of Construction Materials:

Caliche will be obtained from a pit located in Section 14 T-17-S R-29-E.

7. Methods of Handling Waste Disposal:

   A. Drill cuttings will be disposed of in the reserve pit.
   B. Drilling fluids in the pit will be allowed to evaporate in the reserve pit until the pits are dry.
   C. Water produced during tests will be disposed of in the reserve pit. Oil produced during tests will be stored in a test tank and sold. Gas produced during tests will be flared.
   D. Salts and chemicals will be deposited in the reserve pit.
   E. A septic borehole will be constructed for the disposal of human waste.
   F. Trash, waste paper, garbage and junk will be buried in a separate trash pit (see Burn Pit on Exhibit #4) and covered with a minimum of 24 inches of soil.
   G. All trash and debris will be buried or removed from the wellsite after drilling and completion activities are finished.

8. Ancillary Facilities:

   None anticipated.

9. Wellsite Layout:

   A. Exhibit #4 shows the general location and dimensions of the Well Location, Mud Pits, Reserve Pit, Burn Pit, and the location of major rig components.

   B. No significant cuts or fills will be required. Some levelling may be necessary.

   C. The Reserve Pit will be plastic lined.

10. Surface Reclamation Plans:

   A. Upon completion of drilling and testing operations, all equipment and other materials not needed for operations will be removed. Pits will be filled and location cleared of trash and junk.

   B. Any unguarded pits containing fluids will be fenced until they are dry and filled.

   C. Any agreement between the B.L.M. and drilling contractor regarding stacking the rig on location will be the responsibility of the drilling contractor.

   D. After abandonment of the well, surface restoration will be in accordance with the requirements of the surface management agency. Pits will be filled and the location will be cleaned. The pit area and surface locations will be ripped to promote revegetation.

11. Surface Ownership:

Surface Lessee:	Mineral Ownership:
Bogle Farms	Bureau of Land Management
1206 Pecan	P. O. Box 1778
Artesia, NM 88210	Carlsbad, NM 88220
Attn: Lewis Derrick	

12. Other Information:

A. Topography: Stabilized and Coppice sand dunes or mesquite anchored hummocks covered with shin oak, mesquite, yucca, broom snakeweed and various grasses. Ground level elevation at the wellsite is 3591'.

B. Soil: Loamy sands with inclusions of chert and quartzite gravel.

C. Ponds and Streams: There are no rivers, streams, lakes or major ponds in the area. Bear Grass Draw is located approximately 3/4 mile west.

D. Archeological Survey: An archaeological clearance survey was conducted on January 22, 1990 by Pecos Archeological Consultants. The clearance report is Exhibit #5. A minor site was found in the northeast corner of the 400' x 400' site. The pad will be slightly skewed to the northwest, and constructed to avoid intrusion into the site.

E. Land Use: Grazing

13. Compliance:

The company representatives responsible for assuring compliance with the approved Surface Use and Operations Plan are as follows:

Steve Limke	Rick Sievert
(915) 688-0494 (Office)	(915) 688-0448 (Office)
(915) 684-9791 (Home)	(915) 682-6068 (Home)
Midland, Texas	Midland, Texas

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 currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by Oryx Energy Company and it's contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

9-7-90
Date

Steve Limke
Drilling Supervisor

/jr

Oryx Energy Co[illegible]ny
PO Box 1861
Midland TX 79702-1861

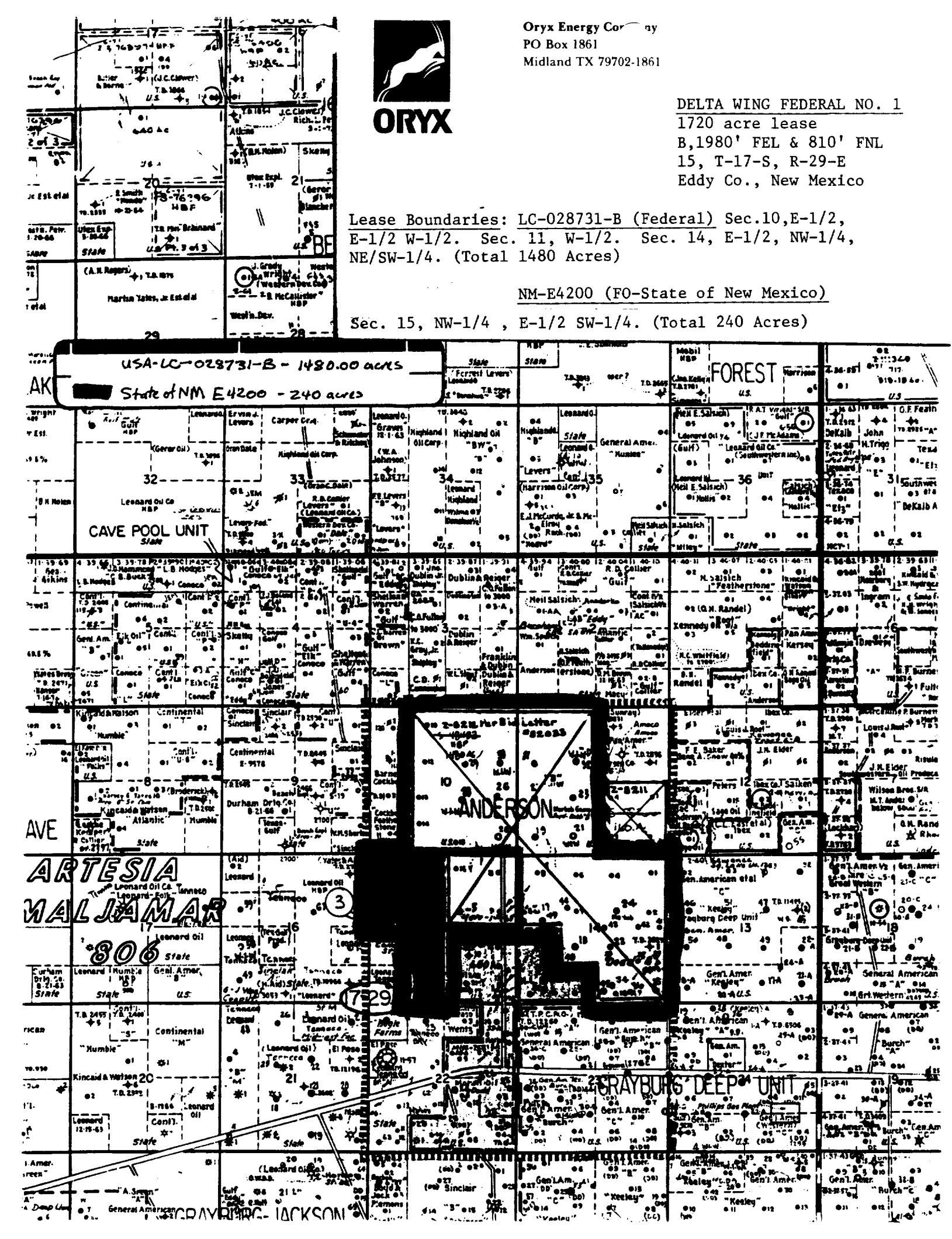
ORYX

DELTA WING FEDERAL NO. 1
1720 acre lease
B,1980' FEL & 810' FNL
15, T-17-S, R-29-E
Eddy Co., New Mexico

Lease Boundaries: LC-028731-B (Federal) Sec.10,E-1/2, E-1/2 W-1/2. Sec. 11, W-1/2. Sec. 14, E-1/2, NW-1/4, NE/SW-1/4. (Total 1480 Acres)

NM-E4200 (FO-State of New Mexico)

Sec. 15, NW-1/4 , E-1/2 SW-1/4. (Total 240 Acres)



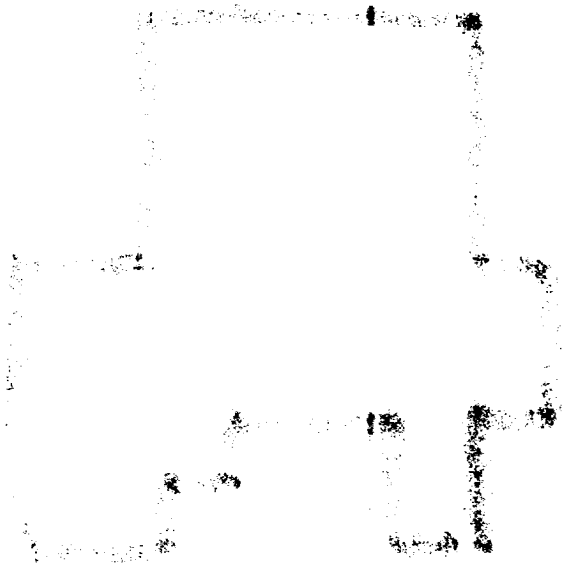
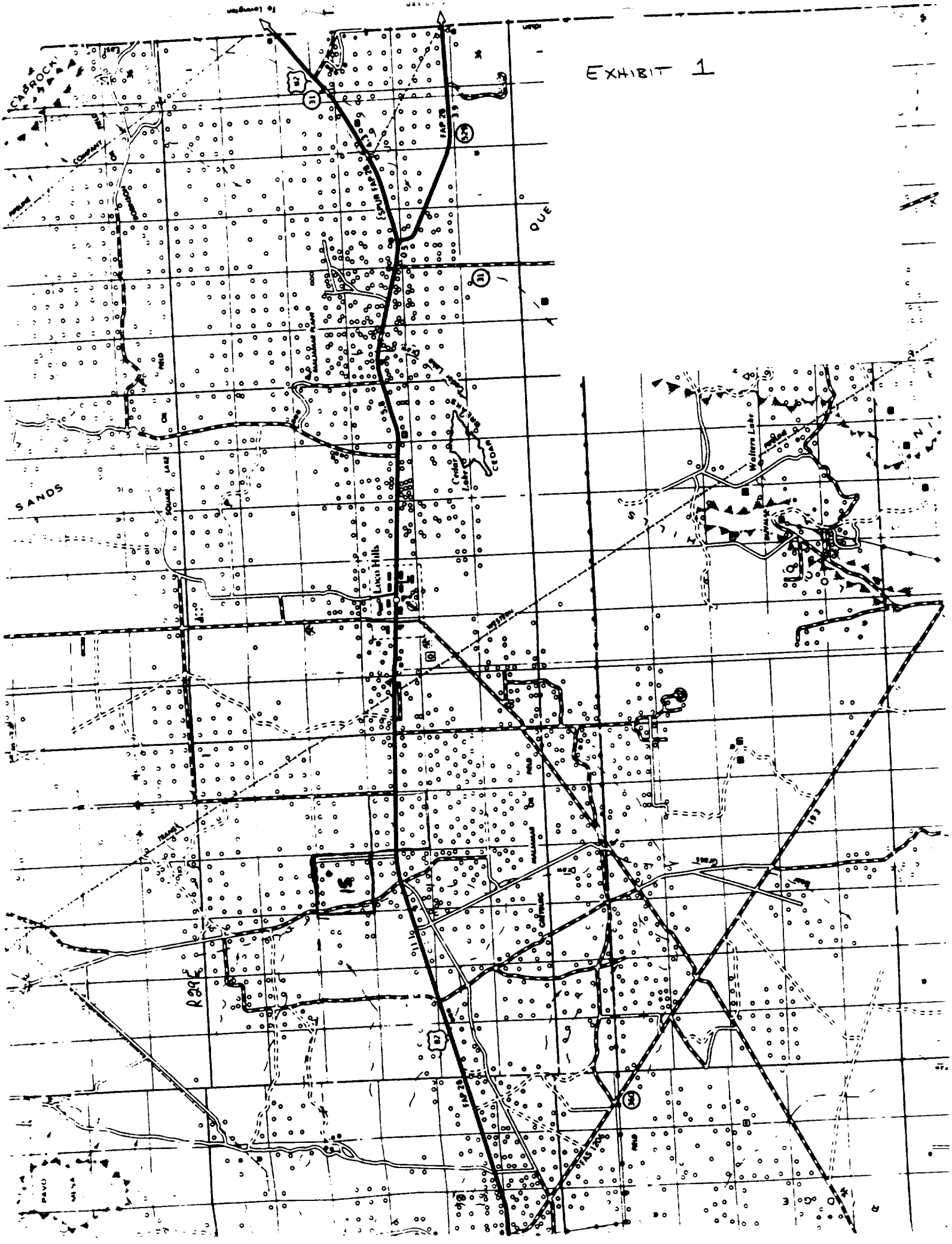


EXHIBIT 1


CABROCK
SANDS
Lake Hills
Cedar Lake
Walters Lake
R29E
FAP 28
FAS 1208

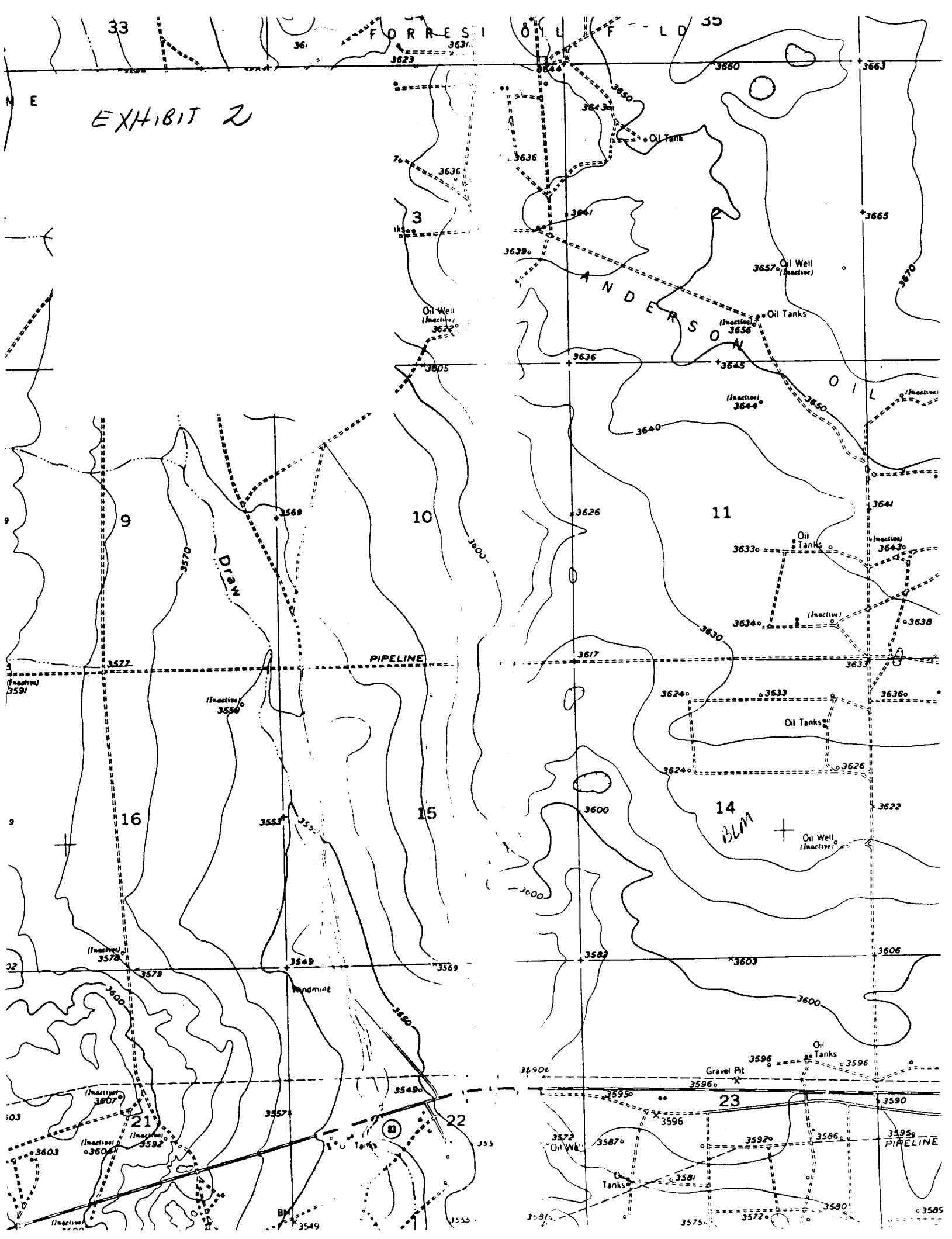


EXHIBIT 2
FORREST OIL FIELD
ANDERSON OIL
PIPELINE
Draw
Windmill
Oil Tank
Oil Well (Inactive)
Oil Tanks
Gravel Pit
BLM
33
35
3
2
9
10
11
16
15
14
21
22
23

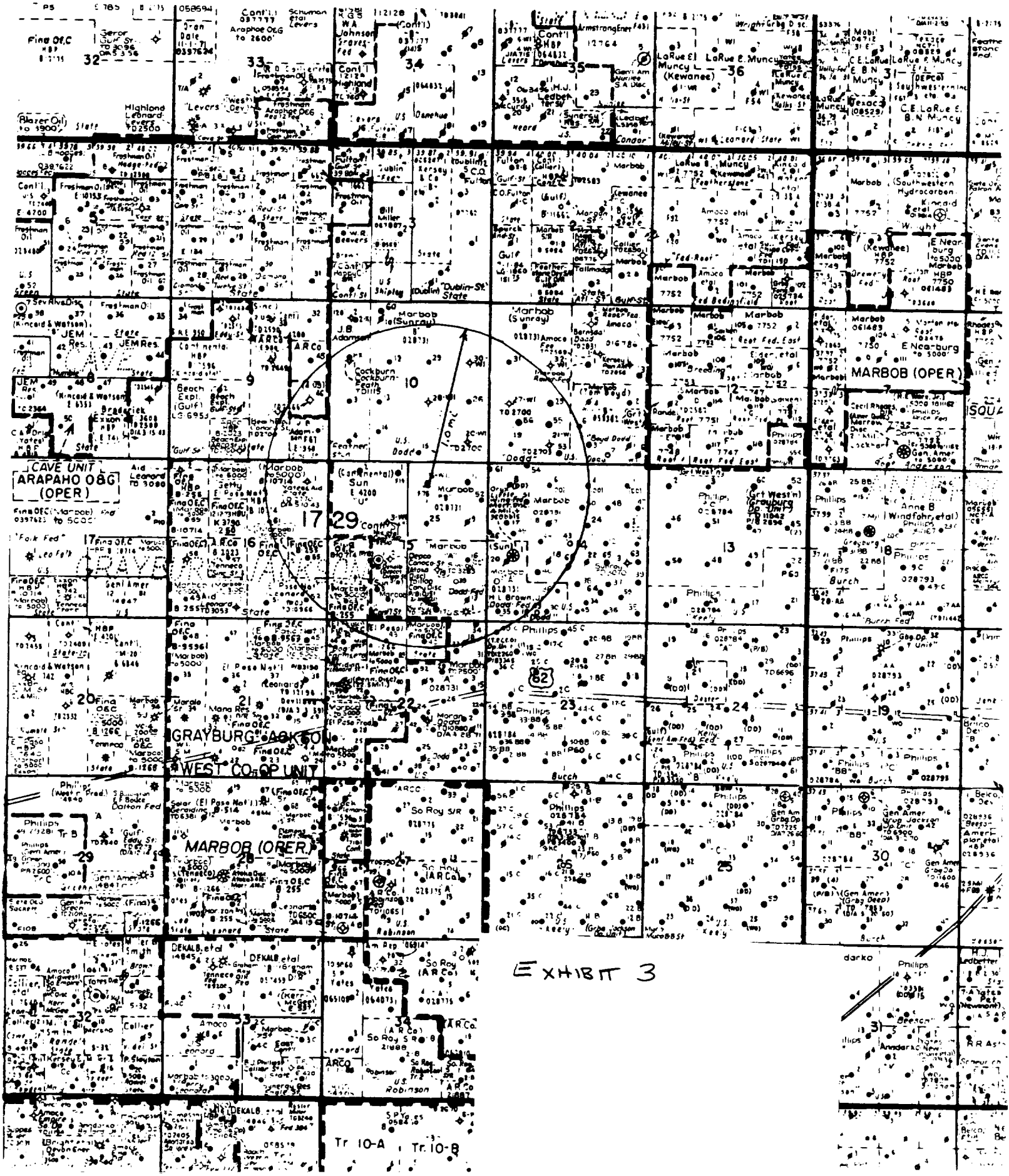
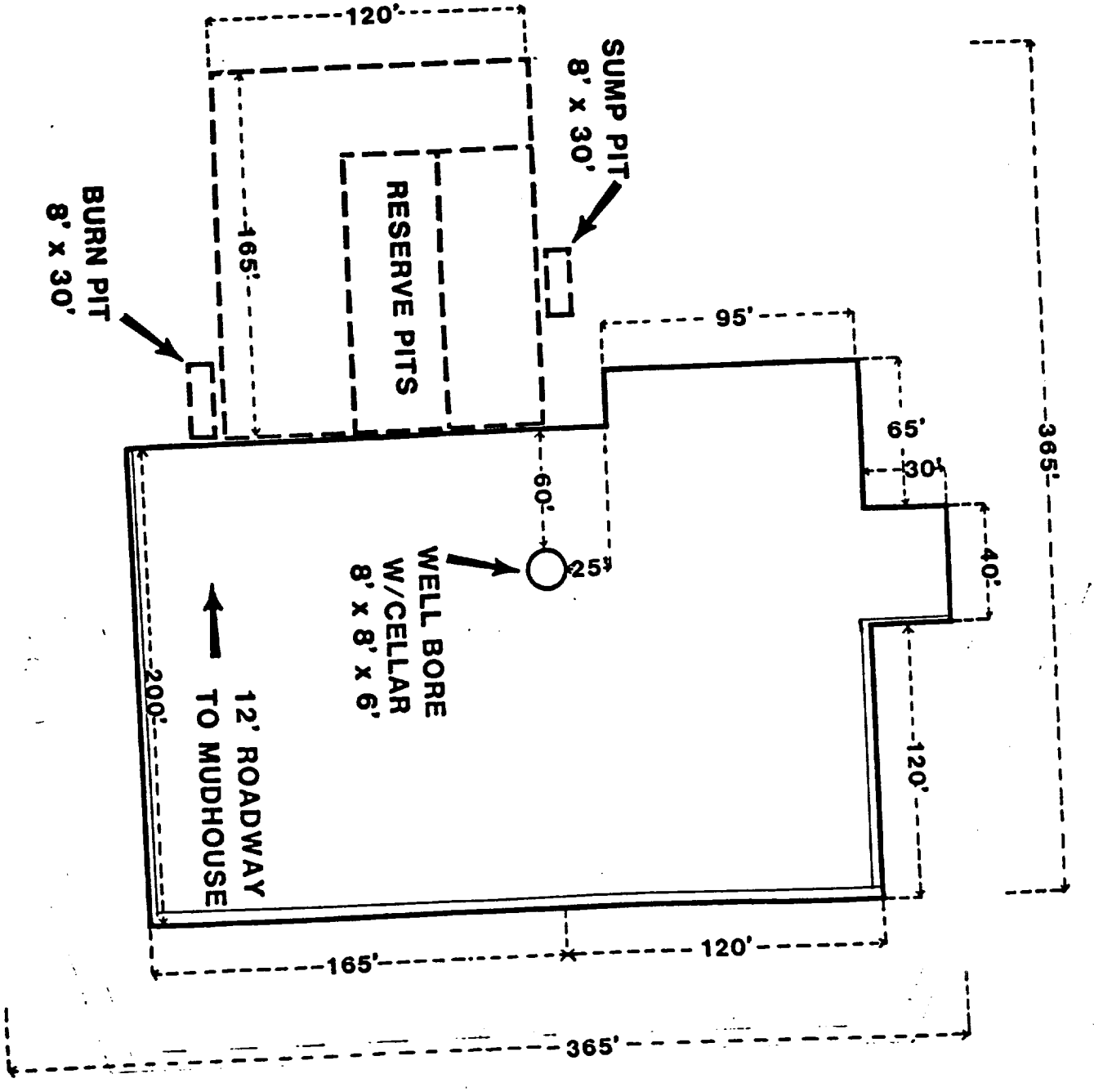

CAVE UNIT
ARAPAHO 08G
(OPER)
GRAYBURG-JACKSON
WEST CO-OP UNIT
MARBOB (OPER.)
MARBOB (OPER)
EXHIBIT 3
Tr 10-A
Tr 10-B

EXHIBIT #4


120'
SUMP PIT
8' x 30'
RESERVE PITS
165'
BURN PIT
8' x 30'
95'
65'
30'
365'
60'
25'
WELL BORE
W/CELLAR
8' x 8' x 6'
40'
12' ROADWAY
TO MUDHOUSE
200'
120'
165'
120'
365'