

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 ☐		5. LEASE DESIGNATION AND SERIAL NO. AC-057210
b. TYPE OF WELL OIL WELL ☒ GAS WELL ☐ OTHER ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR Continental Oil Company		7. UNIT AGREEMENT NAME MCA
3. ADDRESS OF OPERATOR Box 460, Hobbs, N.M. 88240.		8. FARM OR LEASE NAME MCA UNIT
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 450' FSL + 450' FWL At proposed prod. zone Same.		9. WELL NO. 357
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*		10. FIELD AND POOL, OR WILDCAT Grayburg San Andres
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 28, T. 17S, R. 32E
16. NO. OF ACRES IN LEASE		12. COUNTY OR PARISH Lea Co.
17. NO. OF ACRES ASSIGNED TO THIS WELL 40		13. STATE N.M.
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 4150'		20. ROTARY OR CABLE TOOLS Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3940.4' GR		22. APPROX. DATE WORK WILL START* 3-20-78

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/2"	New 8 3/8"	28#	900'	500 SX Circ.
7 7/8"	New 5 1/2"	14#	4150'	400 SX

IT IS Proposed to drill MCA Unit NO. 357 as a Replacement well for the MCA Unit NO. 210 because of the Poor wellbore condition in this center Pattern Producer. IT IS Proposed to drill a straight hole to a T.D. of 4150' and complete as a Grayburg San Andres O.I. well.

See attached for B.O.P. Program, Mud Program, Formation TOPS, Logging ETC.

After completing well No. 357 it is Proposed to Reagent Appraisal to PIA The Well No. 210

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.

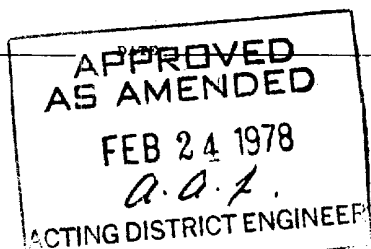
SIGNED Wm. A. Butterfield TITLE ADMIN. SUPERV. DATE 2-1-78

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY: 5-24-78

TITLE _____



*See Instructions On Reverse Side

USGS (6), MCA (4), File (2).

RECEIVED

FEB 28 1978

OIL CONSERVATION COMM.
HOBBS, N. M.

Attachment to Form 9-331 C
Application for Permit to Drill

Continental Oil Company, MCA Unit No. 357
450' FSL and 450' FWL of Section 28, T-17S, R-32E
LC-057210 Lea County, New Mexico

1. The geologic name of the surface formation is Quaternary Sand.
2. The estimated tops of important geologic markers are shown on the attached Proposed Well Plan.
3. The estimated depths at which anticipated water, oil, gas or other mineral-bearing formations to be encountered are as follows:

Santa Rosa SS 500' water
Salado 990' salt
Grayburg San Andres 4010' oil
4. The proposed casing program is as follows:

Surface - new 8 5/8" 28# H-40 set at 900'
Production - new 5 1/2" 14# K-55 set at 4150'
5. A drawing of an API Series 900 Blowout Preventer Specification is attached. Pipe rams and blinds will be checked at 1,000 PSI for 30 minutes when BOP is installed. BOP will be checked when casing string is set and operated daily for checks.
6. The proposed mud program is as follows:

0-900' fresh water 8.5-9.0 pounds per gallon
900' - 4150' salt gel 9.0-10.0 pounds per gallon
7. The auxiliary equipment to be used is as follows:

(1) kelly cocks
(2) floats at the bit
8. It is proposed to run logs as follows:

CBL 1000' - TD
DLL 2000' - TD
GR-SNP 2000' - TD
9. No abnormal pressures or temperatures are expected to be encountered in this well.
10. The anticipated starting date for this well is March 20, 1978 with a duration date of approximately 10 days.

District Engineer
U. S. Geological Survey

Gentlemen:

D&E MCA Unit No. 357

This refers to the Form 9-331, Sundry Notices and Reports on Wells, accompanying this letter. The undersigned hereby states that he has personally contacted Norman Caswell, the owner of the surface land where the proposed abandonment work is to be conducted and advised him of the proposed work.

It has been agreed, upon abandonment of the well, that the roads shall be (ripped or ~~left intact~~), the pad shall be (ripped or ~~left intact~~) and the surface restored.

Dave Sowers

STATE OF NEW MEXICO
COUNTY OF LEA

Subscribed and sworn to before me this 1st day of February, 1978.

Wm. M. [Signature]
Notary Public

My commission expires 2-20-81

NEW 100 OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PL

Form 1-1-77
Superseded 1-1-78
Effective 1-1-75

All distances must be from the outer boundaries of the Section

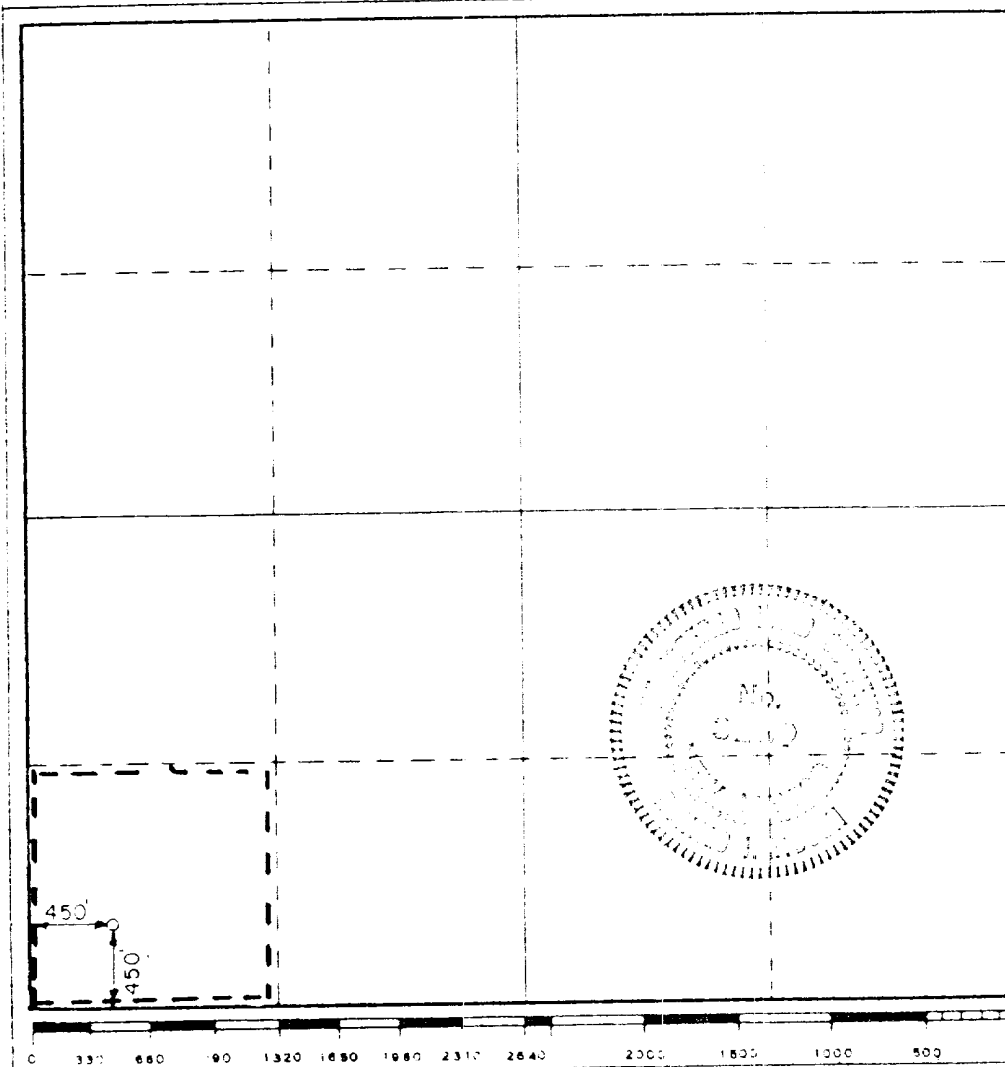
Operator Continental Oil Co.		Lease MCA Unit		Acres 357
County M	Section 28	Range 17 South	Township 32 East	City Lea
Actual Plotage Location of Well:				
450	feet from the	South	450	feet from the
3940.4	Sound Level Elev.	Grayburg San Andros	M/LT. Grayburg San Andros	40

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 (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.

By *Wm. R. Butterfield*
Position **ADMIN. SURV.**
For **CONTINENTAL OIL CO.**
2-1-78

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 **1/17/78**

Registered Professional Engineer and Land Surveyor

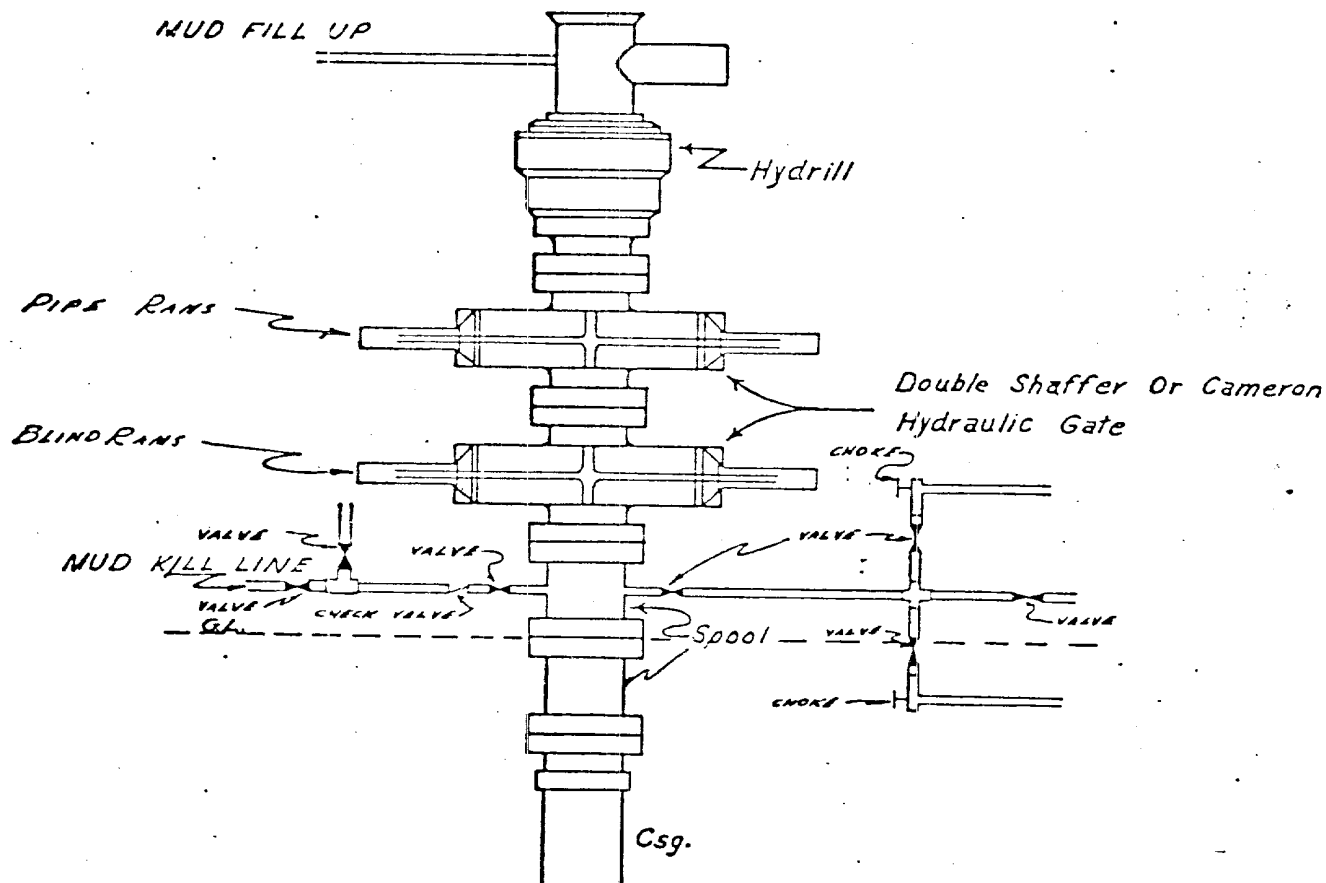
Ronald J. Eidson
Certificate No. **John W. West 676**
Ronald J. Eidson 3239

RECEIVED

FEB 28 1978

OIL CONSERVATION COMM,
HOBBS, N. M.

CONTINENTAL OIL COMPANY
Blow-out Preventer Specifications



API Series 900

NOTE:

Manual and Hydraulic controls with closing unit no less than 75' from well head.
Remote controls on rig floor.

DUE TO SUBSTRUCTURE CLEARANCE,
HYDRILL MAY OR MAY NOT BE USED.

Continental Oil Co.
MCA Unit No. 357

COUNTY: Lea

STATE: New Mexico

[illegible]

SURFACE USE PLAN
Continental Oil Company, MCA Unit No. 357
450' FSL and 450' FWL of Section 28, T-17S, R-32E
Lease LC-057210 Lea County, New Mexico

This plan is to accompany "Application for Permit to Drill" the subject well which is located approximately 38 miles northwest of Hobbs, New Mexico. The following is a discussion of pertinent information concerning possible effect which the proposed drilling of the well may have on the environment of the well and road sites and surrounding areage. A copy will be posted on the derrick floor so that all contractors and sub-contractors will be aware of all items of this plan.

1. Existing Roads

- A. The proposed well site is 450' FSL and 450' FWL of Section 28, T-17S, R-32E, Lea County, New Mexico.
- B. Exhibit "A" is a portion of a New Mexico road map showing existing roads. Directions to the location (outlined in red on map) from Hobbs, New Mexico are as follows: From Hobbs travel west on Highway 62-180 for 15 miles to the intersection of Highway 529 bear right on 529 and go west 25 miles; turn north on blacktop road and travel .3 mile; turn west and travel .3 mile west, northwest to the well location.

C,D,E. The access roads are shown on Exhibits "B" and "C".

- F. The proposed location is adjacent to an existing road.

2. Planned Access Roads

- A. The proposed location is on the east side of an existing road as shown on Exhibits "B" and "C".

3. Location of Existing Wells

See Exhibit "C".

4. Location of Existing and/or Proposed Facilities

- A. Tank Batteries: The existing production header is located in the SW/4 of Section 28, and located on Exhibit "C".
- B. Producing Facilities: None required.
- C. Oil Gathering Lines: Approximately 2640' of 2" flowline will lay (not buried) to the MCA Unit Production Header 3A in Section 28 and located on Exhibit "E".
- D. Other Lines: No additional gas gathering, injection or disposal lines will be required.
- E. Rehabilitation: Pits will be backfilled and leveled as soon as practical to original condition. Commencement of rehabilitation operations will immediately follow removal of drilling and completion equipment from location and rehabilitation of the surface is planned to be complete within 45 days from commencement.
- F. Power Lines: Will use existing power supply now serving Well No. 210 of which this well replaces.

5. Water Supply

The water will be hauled from the MCA Unit TB-2 in NW/4 of Section 28 and located on Exhibit "C".

6. Source of Construction Materials

- A. Caliche for re-surfacing the drilling pad will be obtained from an existing pit in the NE/SW Section 27, T-17S, R-32E as shown on Exhibit "C".
- B. Caliche to be purchased from Bureau of Land Management.
- C. The caliche to be hauled, from the location of caliche pit over existing roads to the drilling pad.

7. Methods for Handling Waste Disposal

Waste Disposal: Well cuttings will be disposed in reserve pit. Barrel trash containers to be in accessible locations within drill site area during drilling and completion procedures. All detrimental waste will be hauled away, burned, or buried with a minimum cover of 24" of dirt. See Exhibit "E" for location of pits. If well is productive, maintenance waste will be placed

in special trash cans and hauled away periodically. Any produced water will be collected in tanks until hauled to an approved disposal system, or separate disposal applications will be submitted to the survey for appropriate approval.

8. Ancillary Facilities

None

9. Well Site Layout

Exhibit "G" shows the relative location and dimensions of the well pad, mud pit, reserve pit, trash barrel, etc. The reserve pit will be lined with plastic. The pad and pits are staked.

10. Plans for Restoration of Surface

Pits will be backfilled and leveled as soon as practical to original condition. Commencement of rehabilitation operations will immediately follow removal of drilling and completion equipment from location and rehabilitation of the surface is planned to be completed within 45 days from commencement.

11. Other Information

A. Terrain: Low rolling hills. See Exhibit "B", topographic map of area.

B. Soil: Sandy Cover on Caliche

C. Vegetation: Mesquite, Sagebrush, sparse range grass

D. Surface Use: Grazing

E. Ponds and Streams: None within one mile

F. Water Wells: None within one mile

G. Residences and Building: None within one mile

H. Arroyos, Canyons, Etc.: There are no significant surface features, see attached Exhibit "B".

I. Well Sign: Sign identifying and locating well will be maintained at drill site with the spudding of the well.

J. Open Pits: All pits containing mud or other liquids will be fenced.

K. Archaeological Resources: None observed.

12. Operator's Representative

Field personnel who can be contacted concerning compliance of this Surface Use Plan are as follows:

Production and Drilling
D. L. McWilliams, D. A. Sowers, E. L. Oshlo, or L. P. Thompson
1101 North Turner
Hobbs, New Mexico 88240
Phone: 393-4141

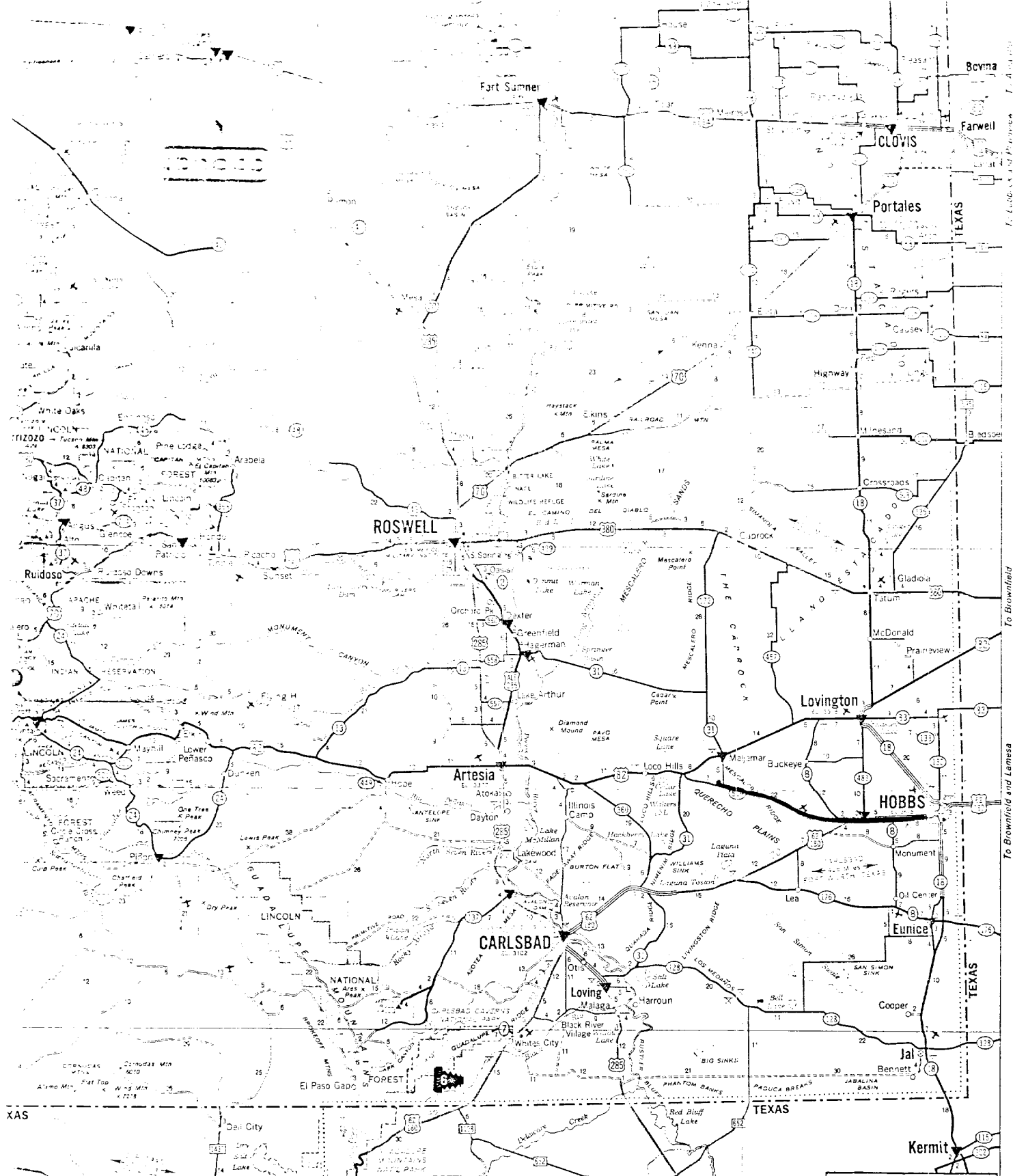
13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; 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 Continental Oil Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

2-1-78
Date

D. A. Sowers
D. A. Sowers
Production Superintendent

bnp



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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LOCATIONS WHERE CONOCO PRODUCTS ARE SOLD

Locations on Interstate Highways, toll roads or major limited access highways where CONOCO PRODUCTS are sold.

Locations of CONOCO Travel Shoppes.

Other CONOCO station locations.

CONOCO

Locations where CONOCO DEALERS provide Fueler Travelers with Sanitary U.S. coin facilities. Look for the sign.

TRAILER DISPOSAL

MCA UNIT # 357

TOURIST ATTRACTIONS

HISTORICAL

SCENIC

GENERAL

How to read your map

NEW MEXICO

SCALE OF MILES

0 5 10 20 30 40

ONE INCH EQUALS APPROXIMATELY 21.6 MILES

HIGHWAY MARKERS

INTERSTATE (10) UNITED STATES (66) STATE (41) TEXAS FARM OR RANCH (308)

ROAD CLASSIFICATIONS

CONTROLLED ACCESS DIVIDED HIGHWAYS

OTHER DIVIDED HIGHWAYS

PRINCIPAL THROUGH HIGHWAYS

OTHER THROUGH HIGHWAYS

CONNECTING HIGHWAYS

LOCAL ROADS. In unfamiliar areas inquire locally before using these roads.

MILEAGES

MILEAGE BETWEEN TOWNS AND JUNCTIONS 3 1 4

MILEAGE BETWEEN DOTS 25

LONG DISTANCE MILEAGES SHOWN IN RED

SPECIAL FEATURES

STATE PARKS

With Campsites Without Campsites

RECREATION AREAS

With Campsites Without Campsites

PORTS OF ENTRY

Open 24 Hours Inquire Locally

POINTS OF INTEREST

POPULATION SYMBOLS

State Capital

Under 1,000

1,000 to 2,500

2,500 to 5,000

5,000 to 10,000

10,000 to 25,000

25,000 to 50,000

50,000 to 100,000

100,000 and over

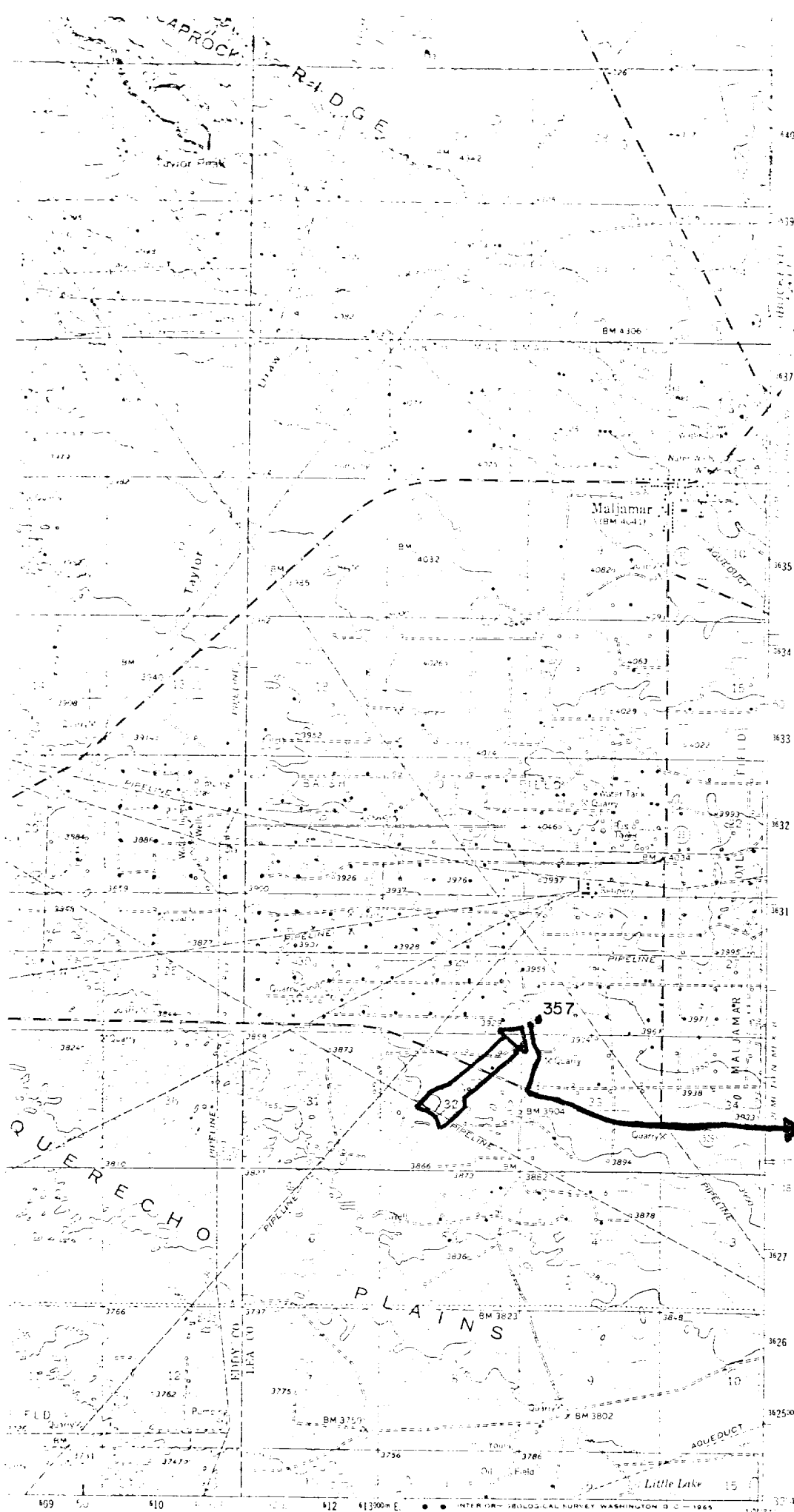
THE H. M. GOUS COMPANY

BOX 6227 SAN ANTONIO, TEXAS 78207

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1975 Edition

EXHIBIT A



T
17
S

To Hobbs.

4 MILES
1:25,000 FEET
METERS

R 32 E

NEW MEXICO

OF ADRIAN LOCATION

ROAD CLASSIFICATION

Medium-duty Light-duty

Unimproved dirt

U.S. Route State Route

MALJAMAR, N. MEX.

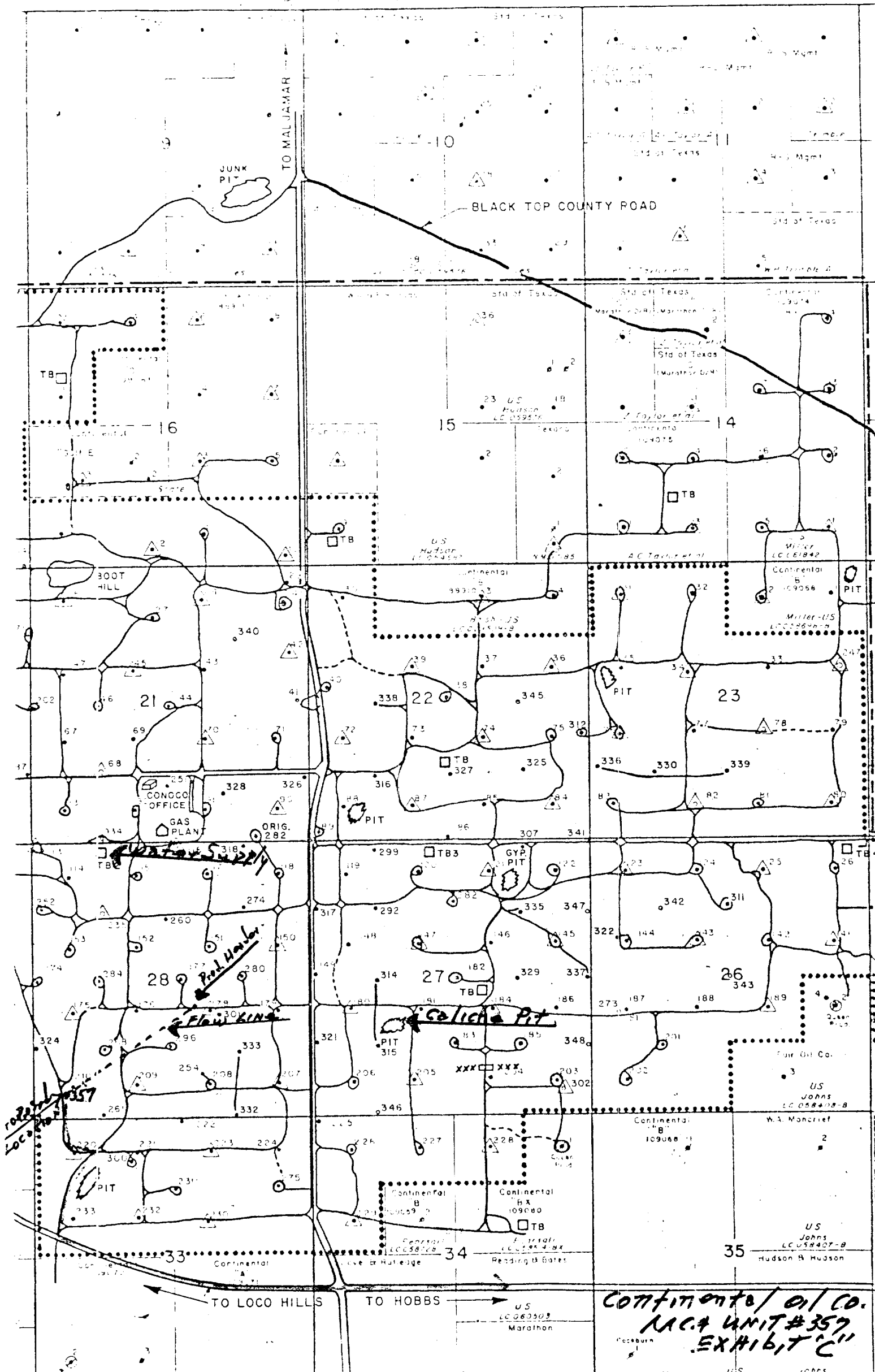
N324E - W10345/15

1963

AMS 5243 IV - SERIES V76

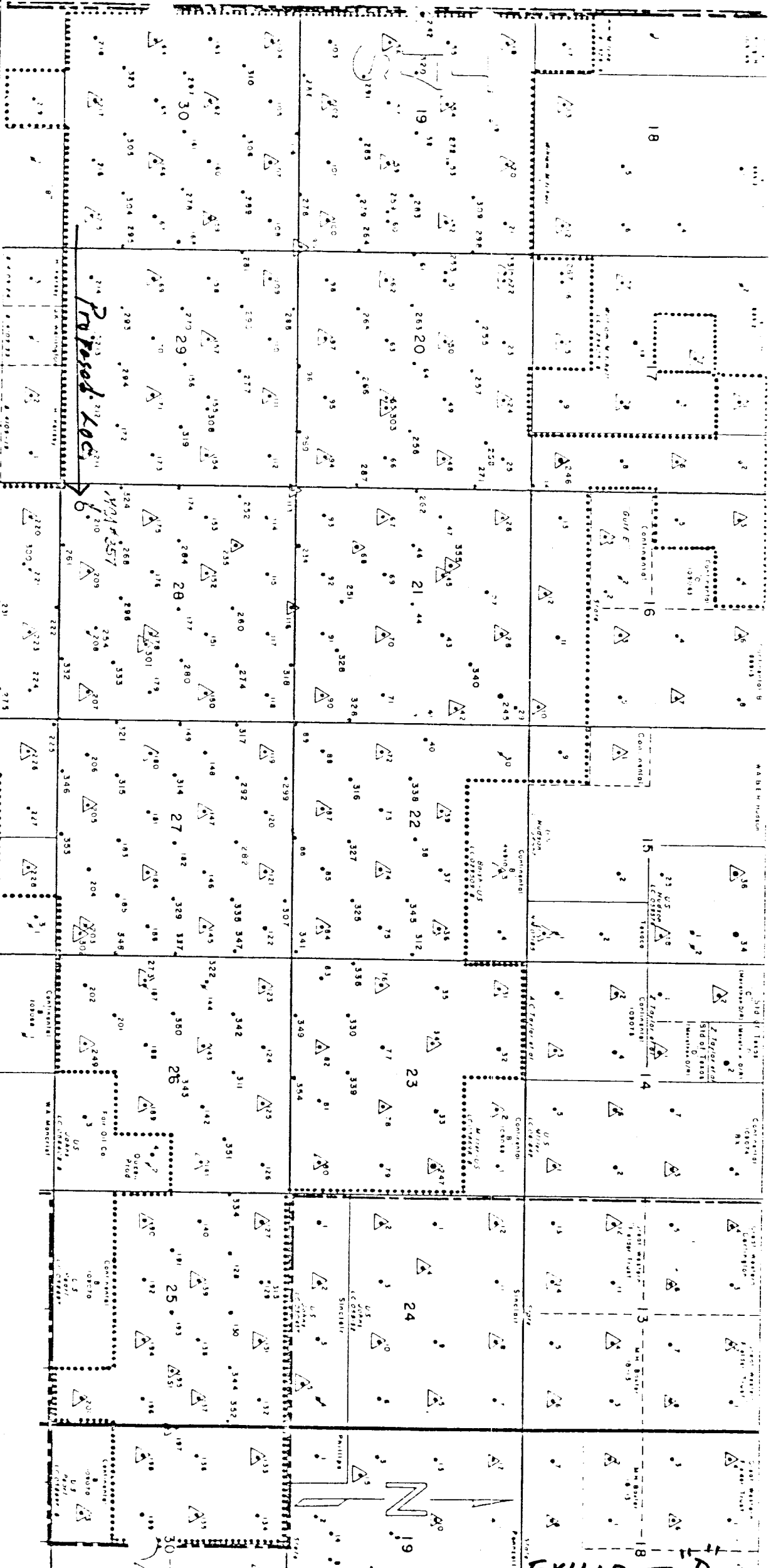
Continental Oil Co.
MCA UNIT NO. 357

EXHIBIT "B"



Continental Oil Co.
NAC UNIT #357
EXHIBIT 'C'

EXHIBIT D



CONOCO

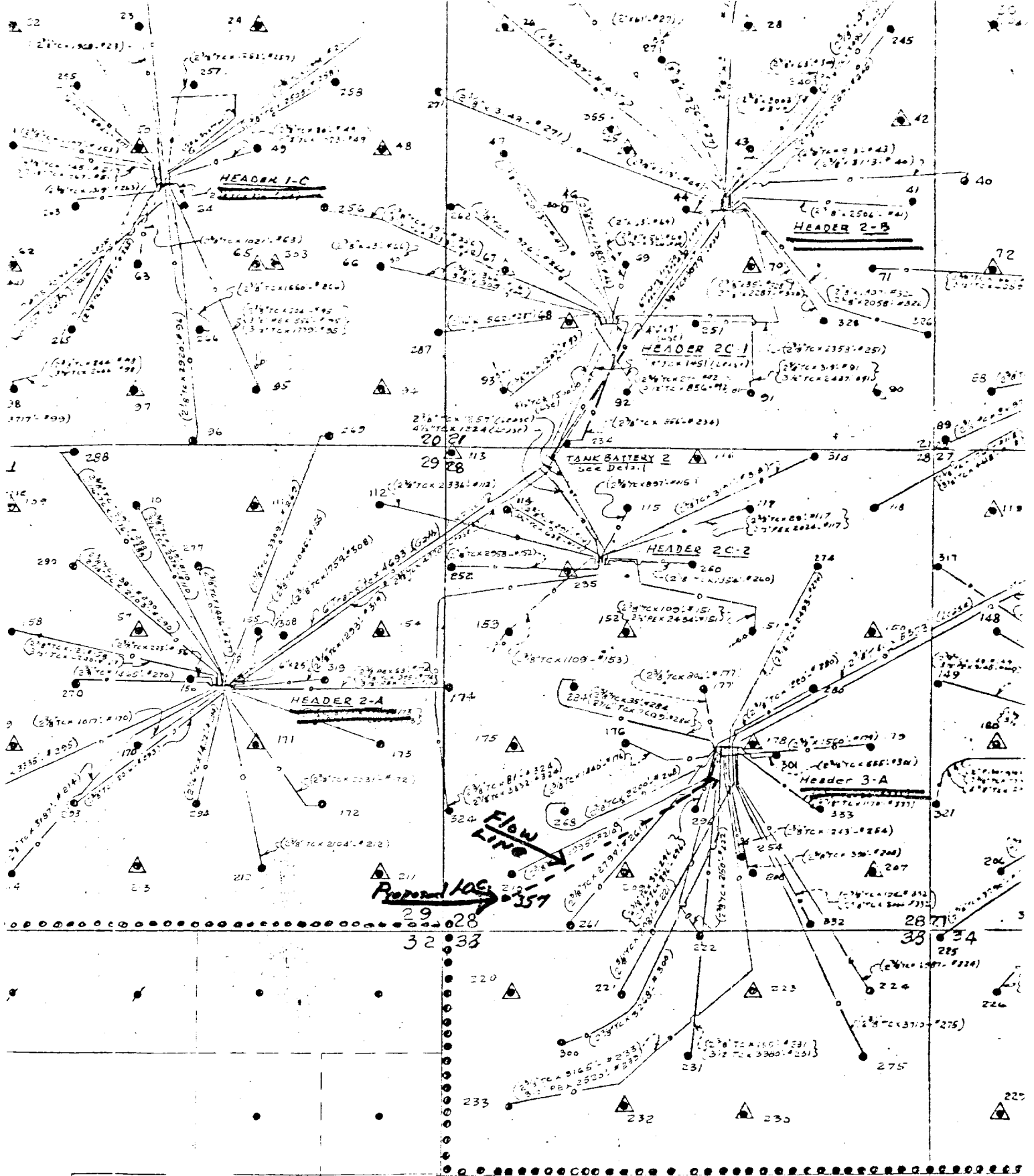
PRODUCTION DEPARTMENT HOBBS DIVISION

LEA COUNTY, NEW MEXICO

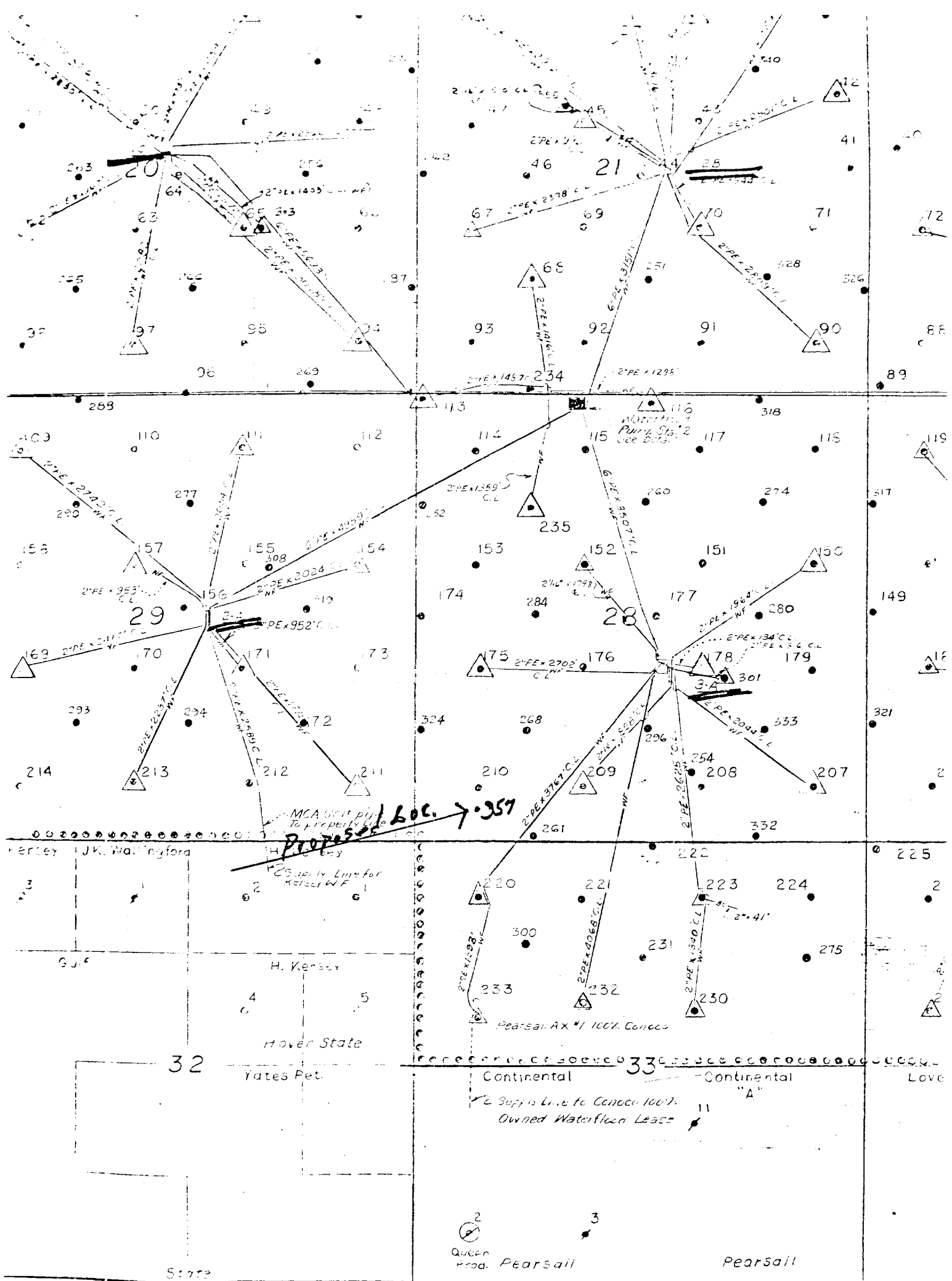
MCA UNIT BOUNDARY
Participating Area

CONTINENTAL OIL CO.
MCA UNIT NO. 357

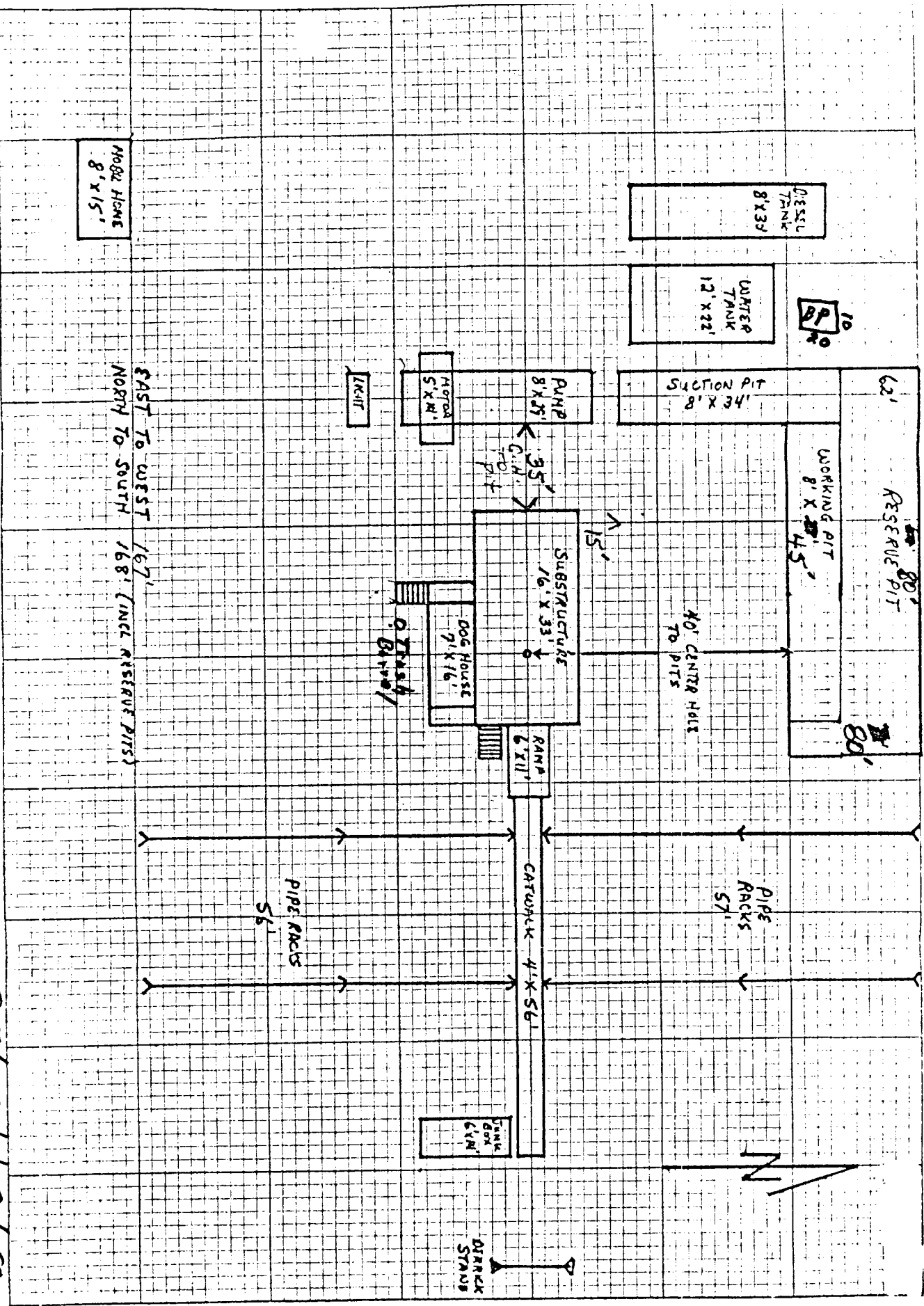
EXHIBIT D



Continental Oil Co.
 NACA Unit # 357
 Production Headers & Flowlines
 EXHIBIT E



Continental Oil Co.
 MCA Unit # 357
 Injection Headers & Lines
 EXHIBIT F



Components of CO,
MCA Unit # 357
EXHIBIT G

EXHIBIT G