Form 9-331 C
(May 1963)

COPY TO O. C. C.

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

60

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: LC-058697(b)
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT AGREEMENT NAME:
8. FARM OR LEASE NAME: PEARL "B"
9. WELL NO.: 6
10. FIELD AND POOL, OR WILDCAT: MALJ GSA Repress
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 25 T-17S R-32E
12. COUNTY OR PARISH:
13. STATE:

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: Continental Oil Company

3. ADDRESS OF OPERATOR: Box 460, Hobbs N. Mexico 88240

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 660' FSL & 1980' FEL of Sec 25
At proposed prod. zone: Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 38 Miles NW of Hobbs, N.M.

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any):
16. NO. OF ACRES IN LEASE:
17. NO. OF ACRES ASSIGNED TO THIS WELL: 40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.:
19. PROPOSED DEPTH: 4450'
20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 3985.2 GL
22. APPROX. DATE WORK WILL START*: July 10, 1977

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"	28#	1200'	600 Sx - Circ
7 5/8"	5 1/2"	14#	4450'	525 Sx

Unless Drilling Operations Commenced, this drilling approval Expires 10-12-77

It is proposed to drill a straight hole to a TD of 4450' and complete as a Grayburg San Andres oil well.

See the attached for BOP program, mud program etc.

SEE ATTACHED FOR CONDITIONS OF APPROVAL

RECEIVED
JUN 1977
U. S. GEOLOGICAL SURVEY
HOBBS, 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 one. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout reventer program, if any.

24.
SIGNED [signature] TITLE ADMIN. SUPV. DATE 6-23-77

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:

"APPROVAL TO FLARE GRANTED WHILE DRILLING AND TESTING."

*See Instructions On Reverse Side

APPROVED
JUL 12 1977
BERNARD MOROZ
ACTING DISTRICT ENGINEER

USGS (6) File

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

Continental Oil Company, Pearl "B" No. 6
660' FSL and 1980' FEL of Section 25, T-17S, R-32E
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 1280' salt
   Grayburg San Andres 4010' oil

4. The proposed casing program is as follows:

   Surface - new 8 5/8" 28# H-40 set at 1200'
   Production - new 5 1/2" 14# K-55 set at 4450'

5. A drawing of an API Series 900 Blowout Preventer Specification is attached. Pipe rams and blinds will be checked to 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:

0-1200' fresh water	8.5-9.0 pounds per gallon
1200'-4450' salt gel	9.0-10.0 pounds per gallon

7. The auxiliary equipment to be used is:

   (1) kelly cocks
   (2) floats at the bit

8. It is proposed to run GR-SNP-DLL logs from TD to 2500'.

9. No abnormal pressures or temperatures are expected to be encountered in this well.

10. The anticipated starting date for this well is July 10, 1977, with a duration date of approximately 10 days.

NEW MEXICO OIL CONSERVATION COMMISSION

WELL LO ION AND ACREAGE DEDICATION PL

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

All distances must be from the outer boundaries of the Section

Operator	Lease	Well No.
Continental Oil Co.	Pearl B	6

Unit Letter	Section	Township	Range	County
O	25	17 South	32 East	Lea

Actual Footage Location of Well: 1980 feet from the East line and 660 feet from the South line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
3985.2	Grayburg San Andres	MALT. G-SA Repress	40 Acres

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

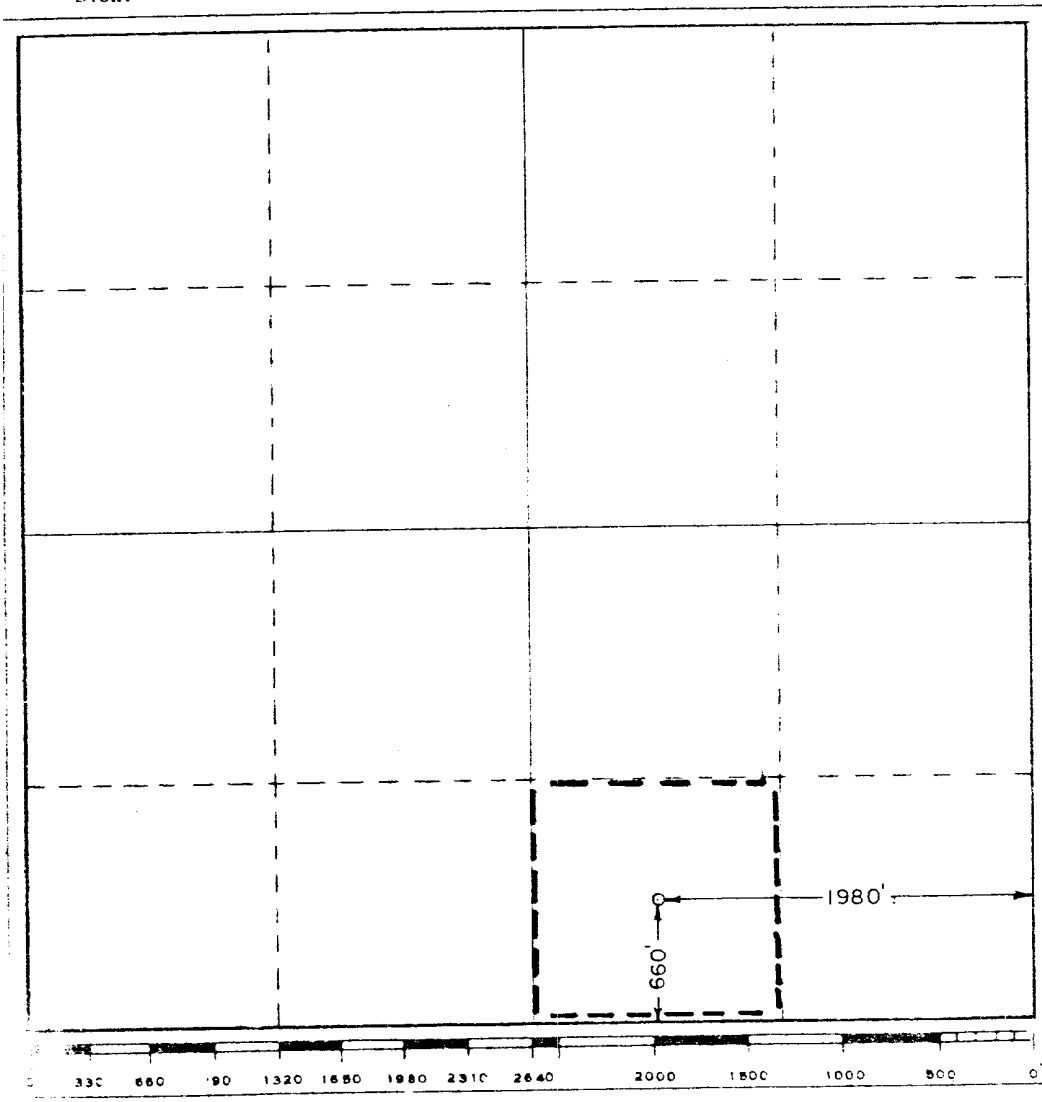
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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: W. A. Buttingsley

Position: Admin. Supv.

Company: Continental Oil Co.

Date: 6-23-77

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: June 20, 1977

Registered Professional Engineer and/or Land Surveyor: John W. West

Certificate No. 676

PROPOSED WELL PLAN

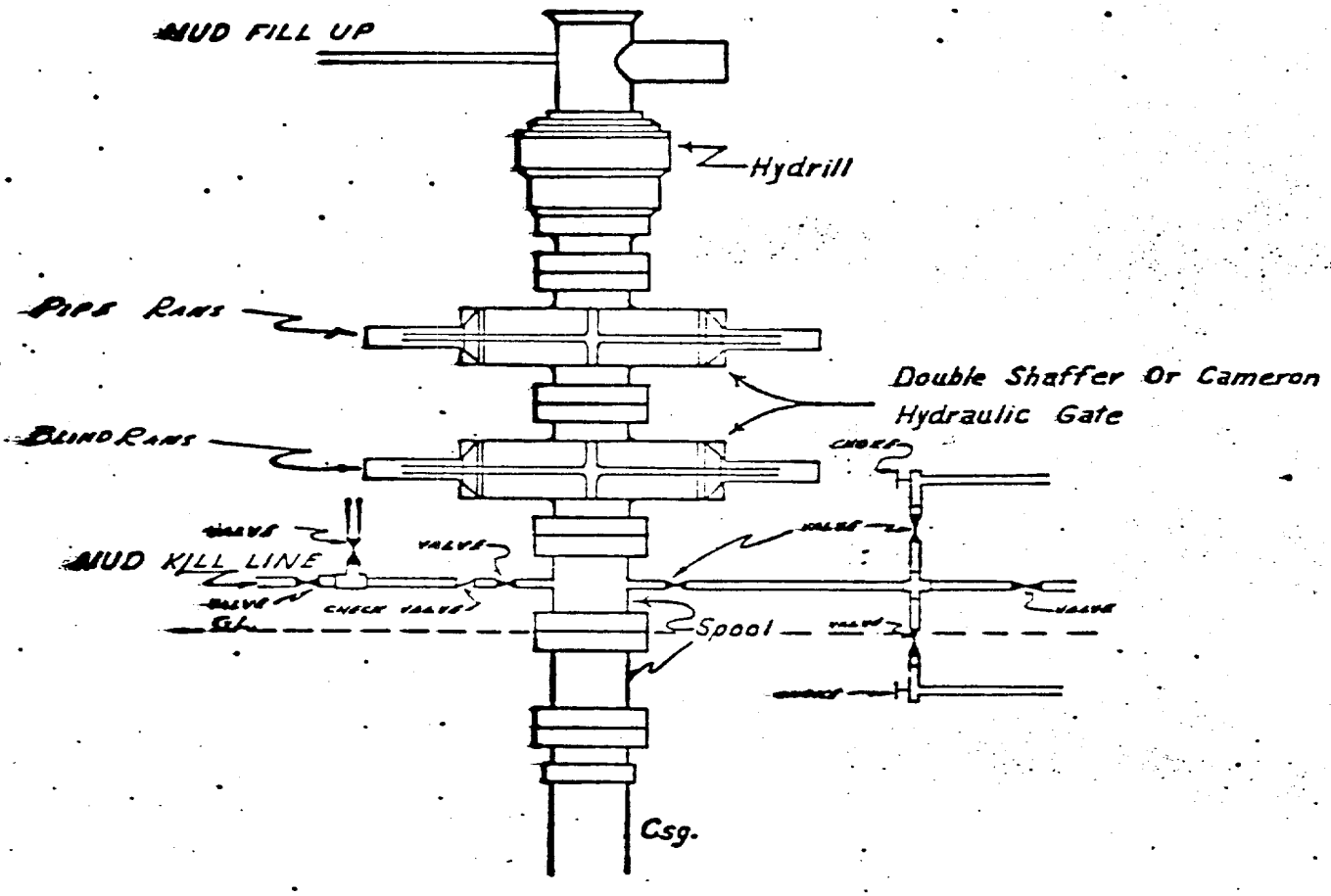
PEARL B NO. 16 — LEA, NEW MEXICO

Well Name 660' FSL & 1980' FEL — County & State

Location: SECT. 25, T17S, R32E — Elev: 3985.2 GL

FORMATION TOPS & TYPE	DRILLING PROBLEMS	TYPE OF FORMATION EVALUATION	HOLE SIZE (IN.)	CASING SIZE (IN.)	CASING DEPTH (FT.)	FRACTURE GRADIENT (PPG)	FORMATION PRESSURE GRADIENT (PPG)	MUD WEIGHT (PPG)	MUD TYPE
QUATERNARY SURFACE SANTA ROSA S.S.									
RUSTLER ANHY 1160 SALADO SALT 1280			12 1/4	8 5/8	1200	—	—	8.5 TO 9.0	FRESH WATER
TANSILL ANHY 2470 YATES S.S. 2590 SEVEN RIVERS DOLOMITE 2970 QUEEN S.S. 3550 PENROSE S.S. 3720 3rd ZONE 4010 4th ZONE 4050 5th ZONE 4110 6th ZONE 4200 7th ZONE 4300 T.D. 4450		GR-SNP 2500 - T.D. DLL 2500 - T.D. TEMP SURVEY 0-3000 DEFLECTION & GEOLOGRAPH 0 - T.D. CEMENT BOND 0 - T.D.	7 5/8	5 1/2	4450	16.0 TO 17.0	LESS THAN 8.5	9.0 TO 10.0	SALT GEL

CONTINENTAL OIL COMPANY
Blow-out reventer 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.

Pearl "B" No. 6

SURFACE USE PLAN
Continental Oil Company, Pearl "B" No. 6
660' FSL and 1980' FEL of Section 25, T-17S, R-32E
Lease LC-058697, Lea County, NM

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 acreage. 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 660' FSL and 1980' FEL of Section 25, 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 20 miles; turn north on a caliche road, go over cattleguard and travel north ± 1/2 mile; turn right, go past 2 pumping units (first is painted yellow and black; second is red). Go ± 200 feet past the red unit and turn north. Go to the Pearl B No. 4 location then turn right to Pearl B No. 6 well-site.

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

F. No improvement or maintenance are anticipated for the existing roads.

2. Planned Access Roads

A. Width and Length: New road required will be 12' wide and 1300' long. This new road is labeled and color coded on Exhibits "B" and "C". (staked)

B. Turnouts: None

C. Drainage Design: New road will have a drop of 6" from center line on each side.

D. Culverts, Cuts and Fills: None

E. Surfacing Material: Six inches of caliche, bladed, watered and compacted.

F. Gates, Cattleguards, Fences: None required

G. The proposed road is staked.

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 NW/4 of Section 25 and located on Exhibit "D".

B. Producing Facilities: The new Pearl B tank battery will be located in the southwest corner of the Pearl B No. 4 well pad 380' FSL and 2310' FWL of Section 25.

C. Oil Gathering Lines: If productive a flowline will be installed parallel and adjacent to the east-west road between the tank battery and No. 6.

D. Other Lines: A disposal line is planned to run from Pearl B No. 6 to Pearl B No. 4.

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 completed within 45 days from commencement.

5. Water Supply

1900' of 2" water line will be installed from the MCA Unit No. 200 injection well.

6. Source of Construction Materials

A. Caliche for surfacing the new road and the well pad will be obtained from an existing pit in the NW/SE Section 25, 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. Travel 1000' east; 1200' south, 900' west to new location.

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 "E" 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 sand hills. See Exhibit "B", topographic map of area.

B. Soil: Sandy Cover on Caliche

C. Vegetation: Shinnery, Mesquite, clumps of 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. S. Anderson or D. A. Sowers
1001 North Turner
Hobbs, New Mexico 88240

Phone: 393-4141

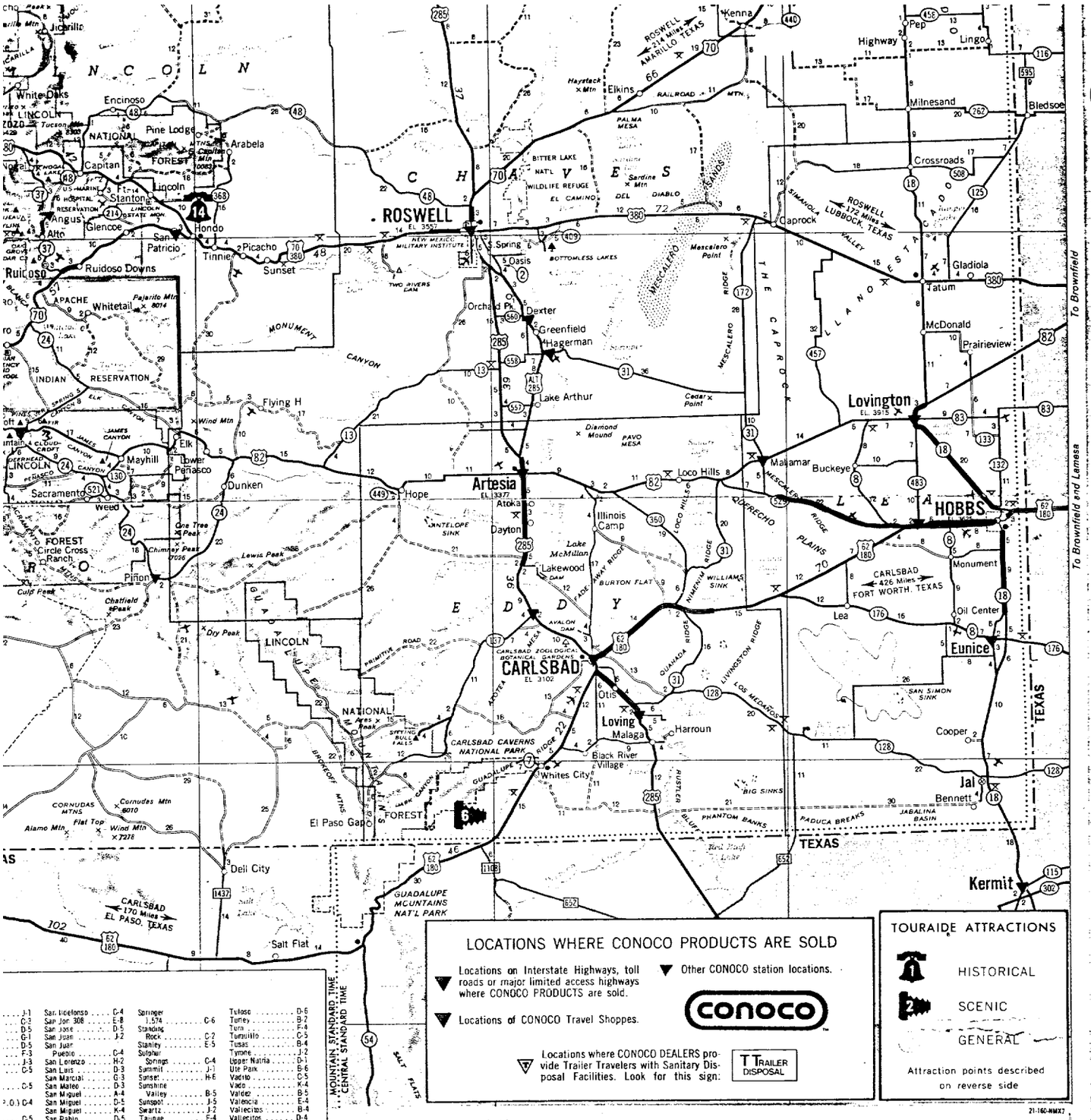
13. Certification

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.

6-23-77
Date

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

rej
6/23/77



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 Trailer Travelers with Sanitary Disposal Facilities. Look for this sign: TRAILER DISPOSAL

TOURAIDE ATTRACTIONS

1 HISTORICAL

2 SCENIC

GENERAL

Attraction points described on reverse side

21-160-NMX7

MILEAGES

MILEAGE BETWEEN TOWNS AND JUNCTIONS 3 4

MILEAGE BETWEEN DOTS • 35 •

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 ⊡

SCHEDULED AIRLINE STOPS
MILITARY AIRPORTS
OTHER AIRPORTS
TOURIST INFORMATION
SKI AREAS
SELECTED REST AREAS
BOAT RAMPS
TIME ZONE BOUNDARY

SCALE OF MILES
0 5 10 20 30 40
ONE INCH EQUALS APPROXIMATELY 21.6 MILES

HIGHWAY MARKERS

INTERSTATE 40 UNITED STATES 66 STATE 41 TEXAS FARM OR RANCH 308

ROAD CLASSIFICATIONS

CONTROLLED ACCESS DIVIDED HIGHWAYS (Interstate interchange numbers are mileposts) — Divided / Undivided, Interchanges
OTHER DIVIDED HIGHWAYS — Paved
PRINCIPAL THROUGH HIGHWAYS — Paved / Gravel
OTHER THROUGH HIGHWAYS — Paved / Gravel
CONNECTING HIGHWAYS — Paved / Gravel
LOCAL ROADS In unfamiliar areas inquire locally before using these roads — Paved / Gravel / Dirt

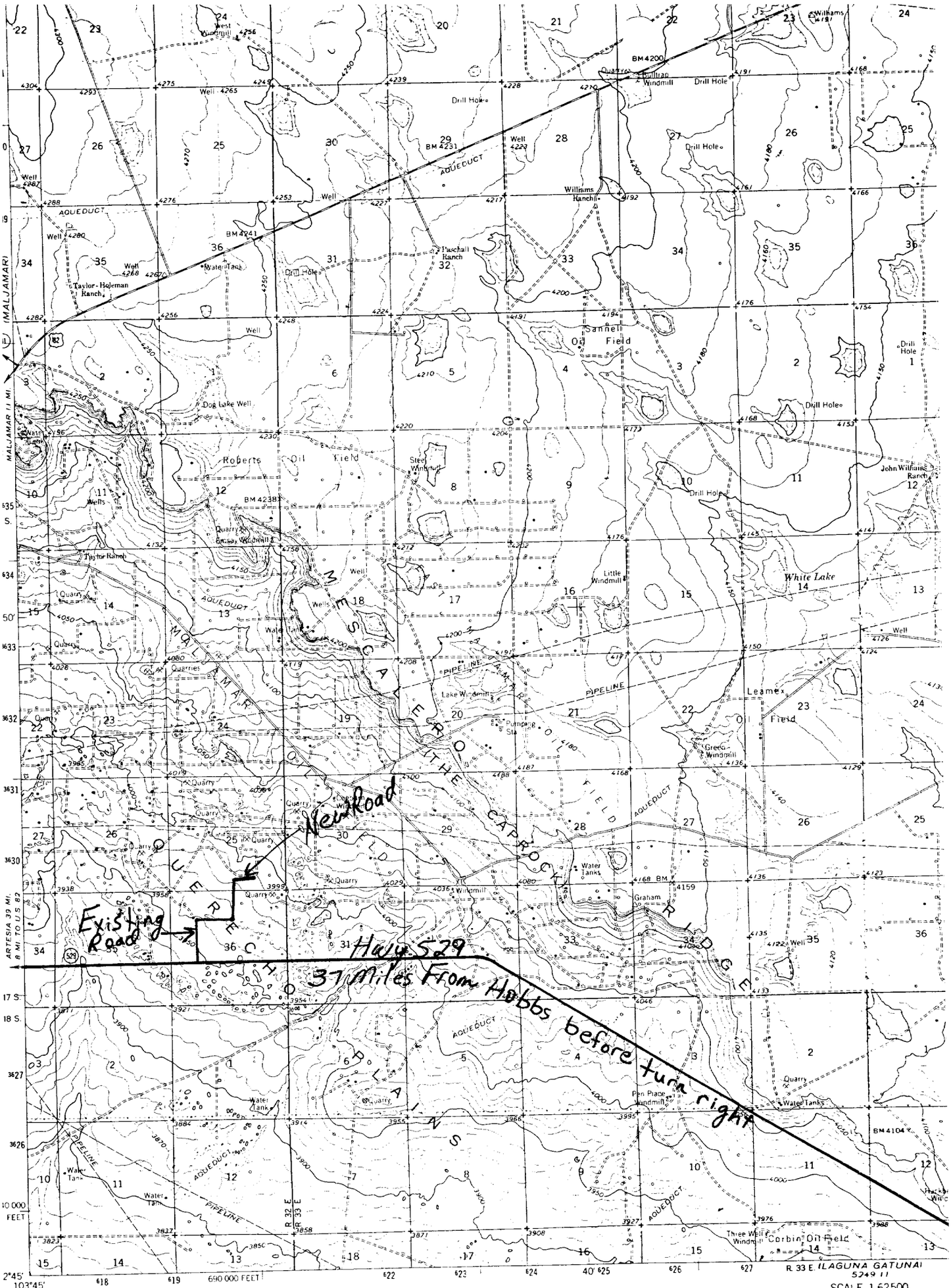
POPULATION SYMBOLS

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

1975 Edition
Lithographed in U.S.A.

Conoco
Pearl B No. 6
Exhibit 'A'

— Paved Road To Location



Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Planimetry by photogrammetric methods from aerial photographs taken 1957. Topography by planetable surveys 1962

Polyconic projection. 1927 North American datum
10 000-foot grid based on New Mexico coordinate system, east zone
1000-meter Universal Transverse Mercator grid ticks, zone 13, shown in blue

Fine red dashed lines indicate selected fence lines

UTM GRID AND 1962 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

0°45' EAST 13 MILS — 12° 213 MILS

— Blacktop
— Existing Dirt Road
— New Road

Conoco
Pearl B No. 6
Exhibit B

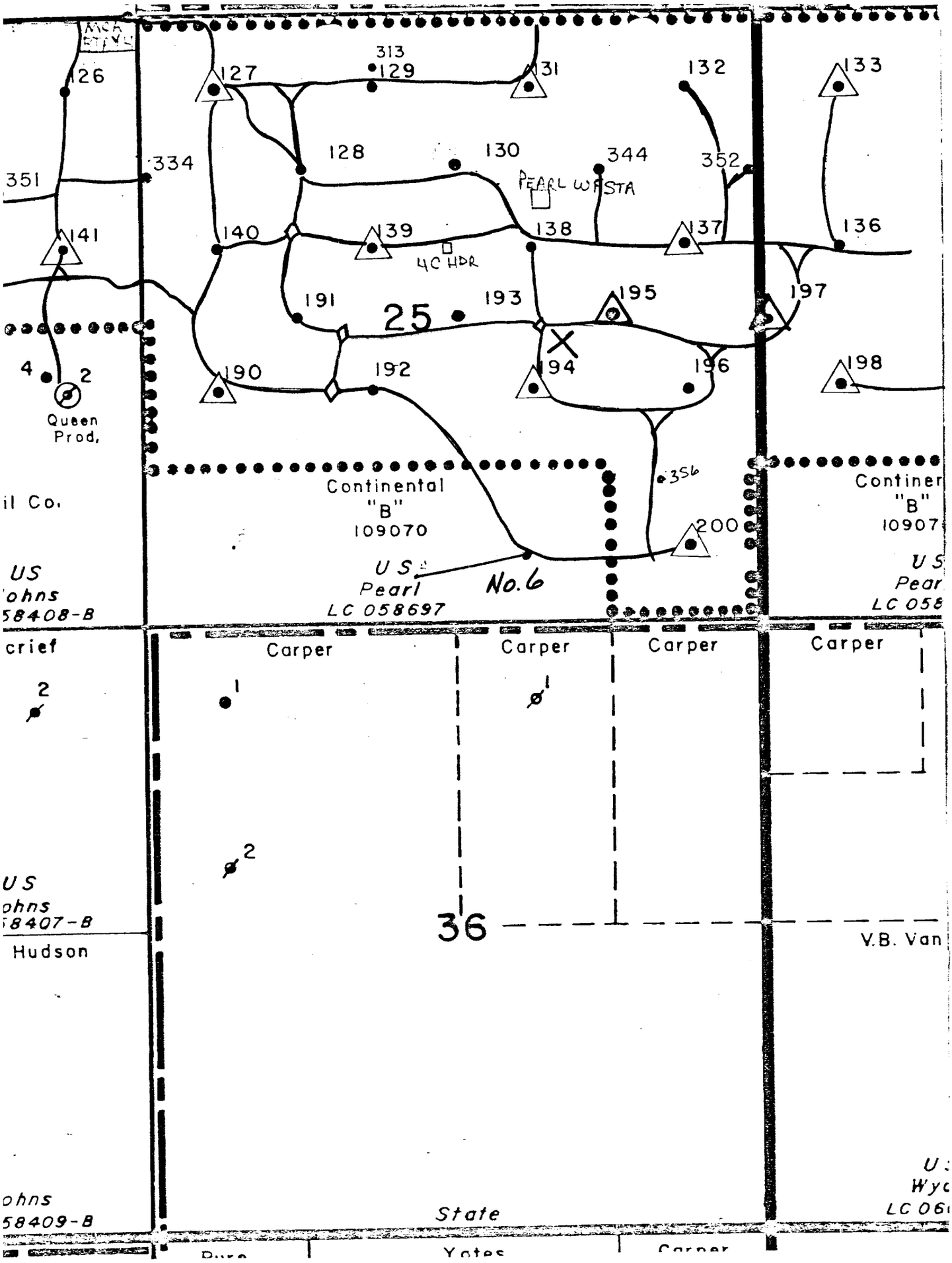


Exhibit C
Pearl B No. 6

— Surrounding Co
— P
X Co

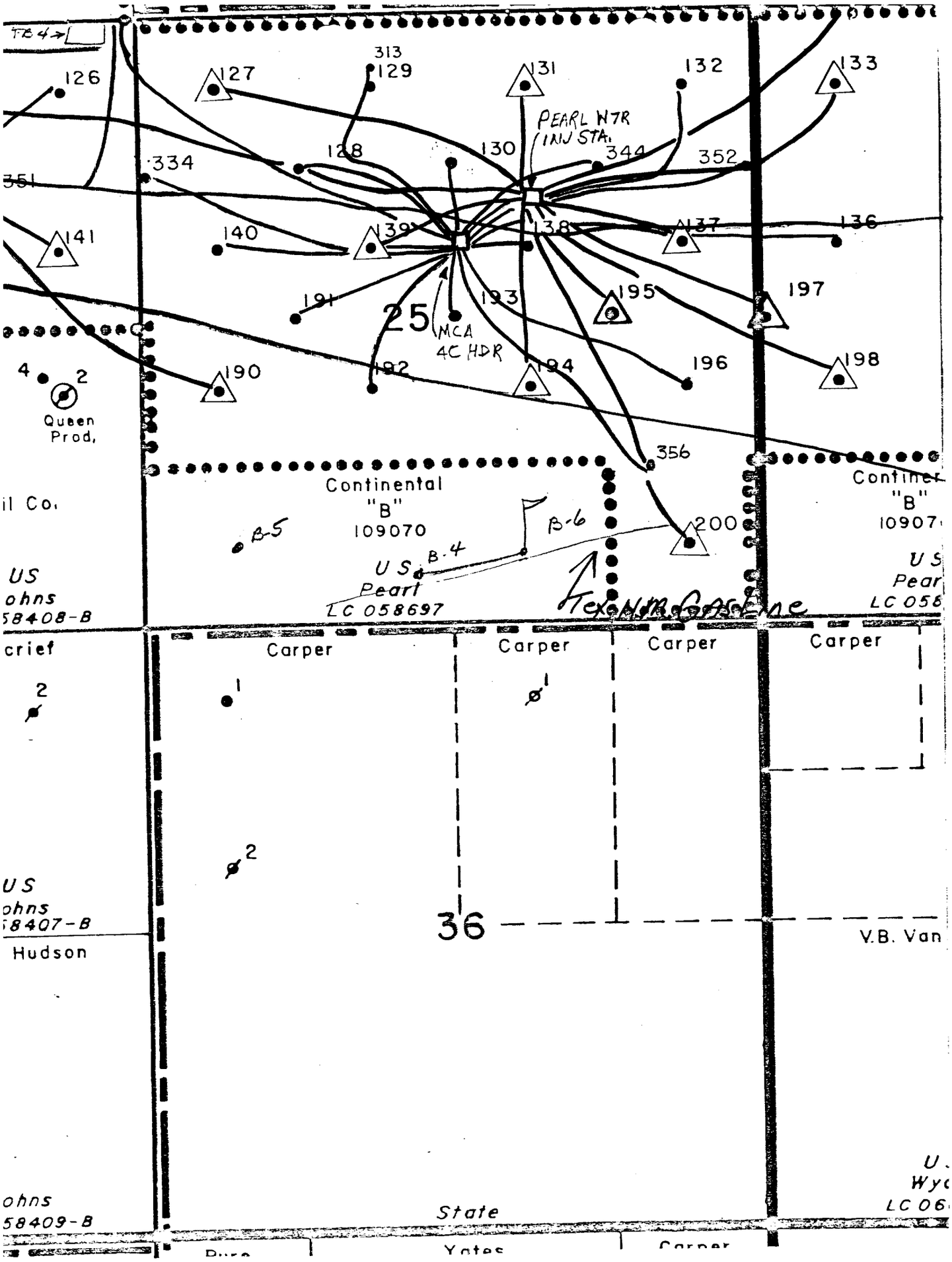
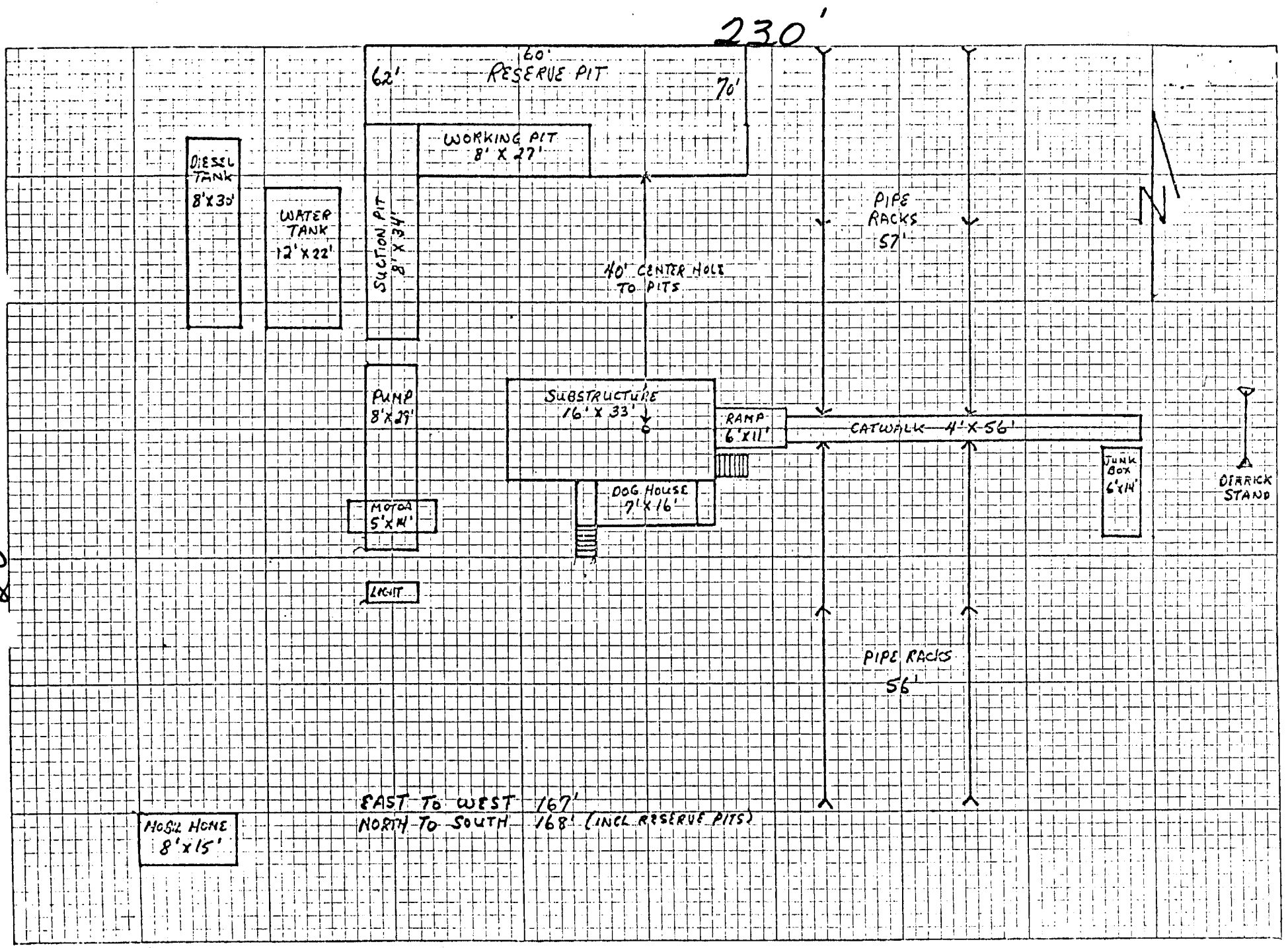


EXHIBIT "D"

PEARL "B" No. 6 - FLOWLINE MAP

— NEW PRODUCTION FLOWLINE
— PRODUCTION FLOWLINE
— INJECTION LINE
— GAS OR LPG LINE
— SALT WTR. TRANSFER (DISPOSAL) LINE

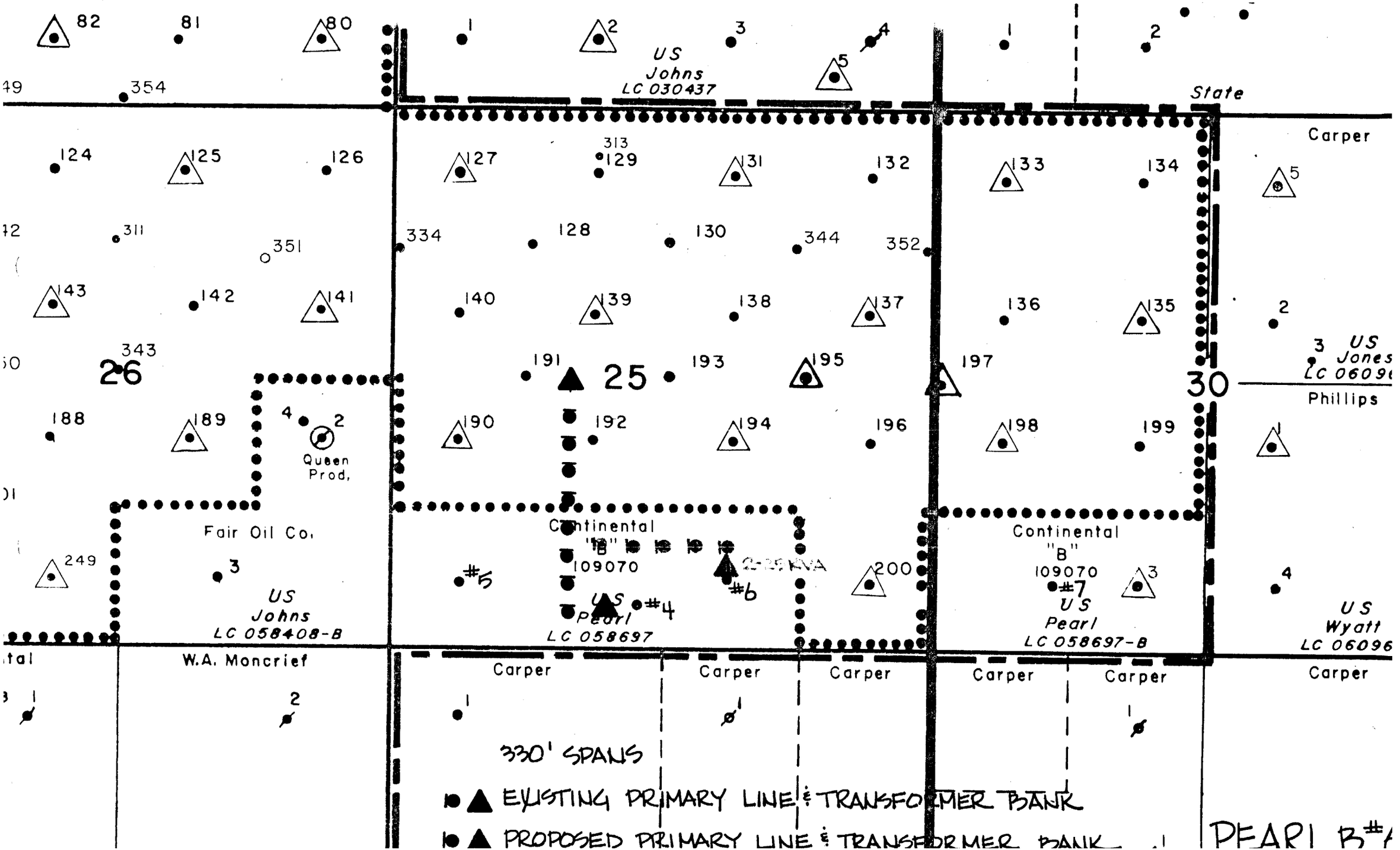
KEUFFEL & ESSER CO.



Continental Oil Company
Pearl "B" No. 6
Power Distribution

A plat is attached showing the proposed well location, existing power lines, proposed power lines and drawings of the pole design.

Construction will consist of building five spans of straight line primary and placing a transformer bank at the location. The line take off will tie in with existing company owned line.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W.A. Moncrief
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LC 030437
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344
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196
#5
#6
#4
109070
US
Pearl
LC 058697
200
Carper
Carper
Carper
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1
330' SPANS
EXISTING PRIMARY LINE & TRANSFORMER BANK
PROPOSED PRIMARY LINE & TRANSFORMER BANK
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Carper
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134
5
136
135
2
3 US
Jones
LC 0609
30
Phillips
198
199
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Continental
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#7
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Pearl
LC 058697-B
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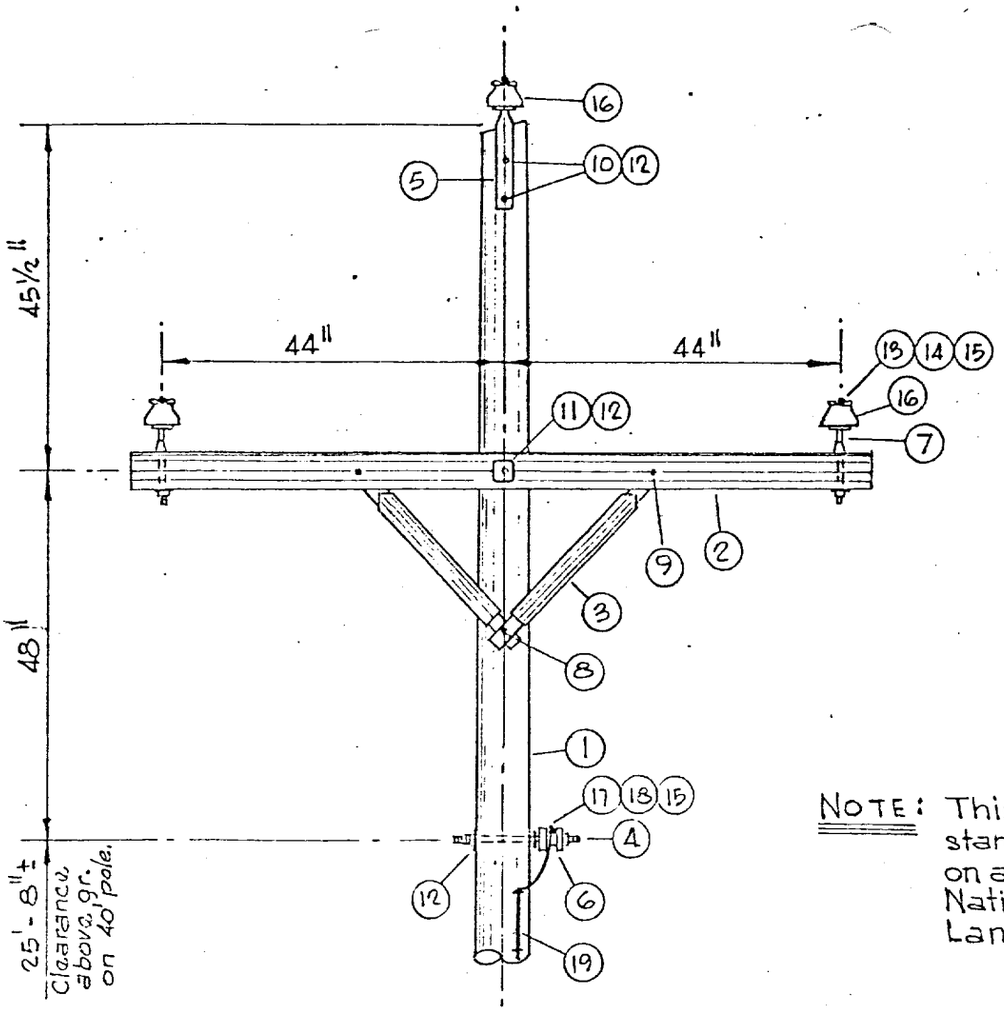
US
Wyatt
LC 06096
Carper
Carper
Carper
1
PEARL B#



NOTE: This construction standard to be used on all lines built on National Resource Lands.

MATERIAL

ITEM	REQ'D.	DESCRIPTION	ITEM	REQ'D.	
1	1	Pole, 40'	17	—	Neutral Conductor
2	1	Crossarm, 3½" x 4½" x 8'	18	1	Armor Rod
3	2	Brace, Wood	19	5#	Pole Ground Wire, #6 Cu.
4	1	Stud Rack			
5	1	Ridge Pin, 15"			
6	1	Spool Insulator			
7	2	Steel Pin, 5/8" x 5"			
8	1	Lag Screw, ½" x 4"			
9	2	Carrage Bolt, 3/8" x 4½"			
10	2	Machine Bolt, 5/8" x 10"			
11	1	Machine Bolt, 5/8" x 14"			
12	5	Washer, 2¼" Sq.			
13	—	Phase Conductor			
14	3	Armor Rod			
15	1#	Tie Wire, #6 Al.			
16	3	Pin Insulator, 9 KV			

NOTE: All bolts will have locknuts.

REVISIONS DESCRIPTION	DATE	BY

DATE: 4-22-77

DRAWN BY:

DESIGN BY:

CHECKED BY: SK

APPROVED BY:

SCALE: NONE

TITLE: PRIMARY IN LINE POLE 12,500 VOLT ACSR

CONOCO

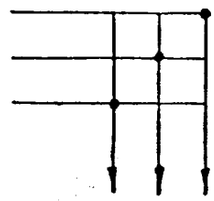
PRODUCTION DEPT. HOBBS DIVISION

JOB: ELEC SPECS

DRAWING NO.: ES-24

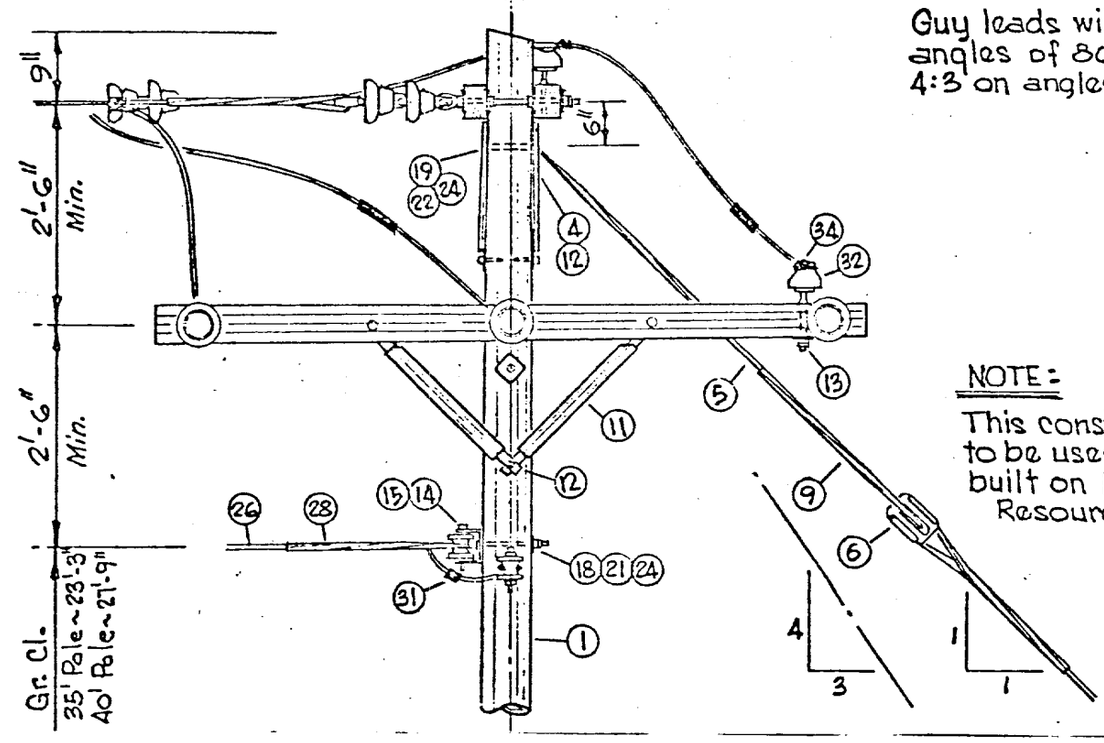
STANPAT PRODUCTS INC. PORT WASHINGTON, N.Y.

Normal Phasing



Load

For Material see Dwg. 403013-A



Guy leads will be 1:1 on angles of 80°-90° and 4:3 on angles of 60°-79°.

NOTE:

This construction std. to be used on all lines built on National Resource Lands.

REVISIONS DESCRIPTION	DATE	BY

DATE: 4-22-77

DRAWN BY:

DESIGN BY:

CHECKED BY: SK

APPROVED BY:

SCALE: NONE

TITLE: PRIMARY ANGLE STRUCTURE. 60°-90° 12,500 VOLT ACSR.

conoco

PRODUCTION DEPT. HOBBS DIVISION

JOB: ELEC. SPECS

DRAWING NO.: ES-23

STANPAT PRODUCTS INC. PORT WASHINGTON, N.Y.

MATERIAL

ITEM	REQ'D.	DESCRIPTION
1	1	Pole ____ Length, Class ____
2	2	Anchor, 8"
3	2	Anchor Rod, 5/8" x 7'
4	2	Guy Attachment, P133A
5	24#	Guy Cable, 3/8" U.G.
6	2	Guy Insulator, 506
7	2	Epoxy Insulator, Kearney # 323015-24
8	2	Clamp, 3-Bolt
9	6	Guy Grip, 3/8"
10	4	Cross Arm, 8'
11	8	Brace, 38" Spa.
12	6	Lag Screw, 1/2"
13	2	Steel, Pin 5/8" x 5"
14	2	Rack, 1-Point
15	2	Spool Insulator, 3"
16	6	Bolt, D.A., 5/8" x 18"
17	8	Bolt, Mach., 3/8" x 4 1/2"
18	2	Bolt, Mach., 5/8" x 10"
19	2	Bolt, Mach., 5/8" x 12"
20	6	Eye Nut, 5/8"
21	22	Washer, 2 1/4" Flat
22	2	Washer, 3" Curved
23	8	Lock Nut, 3/8"
24	10	Lock Nut, 5/8"
25	—	Phase Conductor Nº _____
26	—	Neutral Conductor Nº _____
27	6	Pref. DE, Nº _____
28	2	Pref. DE, Nº _____
29	6	Clevis, Thimble
30	2	Jumper Sleeve, Nº _____
31	2	Connector, S.O., Sml. Al.
32	2	Insulator, 9KV Pin
33	12	Insulator, 6" Disc
34	1/2 #	Tie Wire, Nº 6 Al.

REVISIONS DESCRIPTION	DATE	BY

DATE: 4-22-77

DRAWN BY:

DESIGN BY:

CHECKED BY: SK

APPROVED BY:

SCALE:

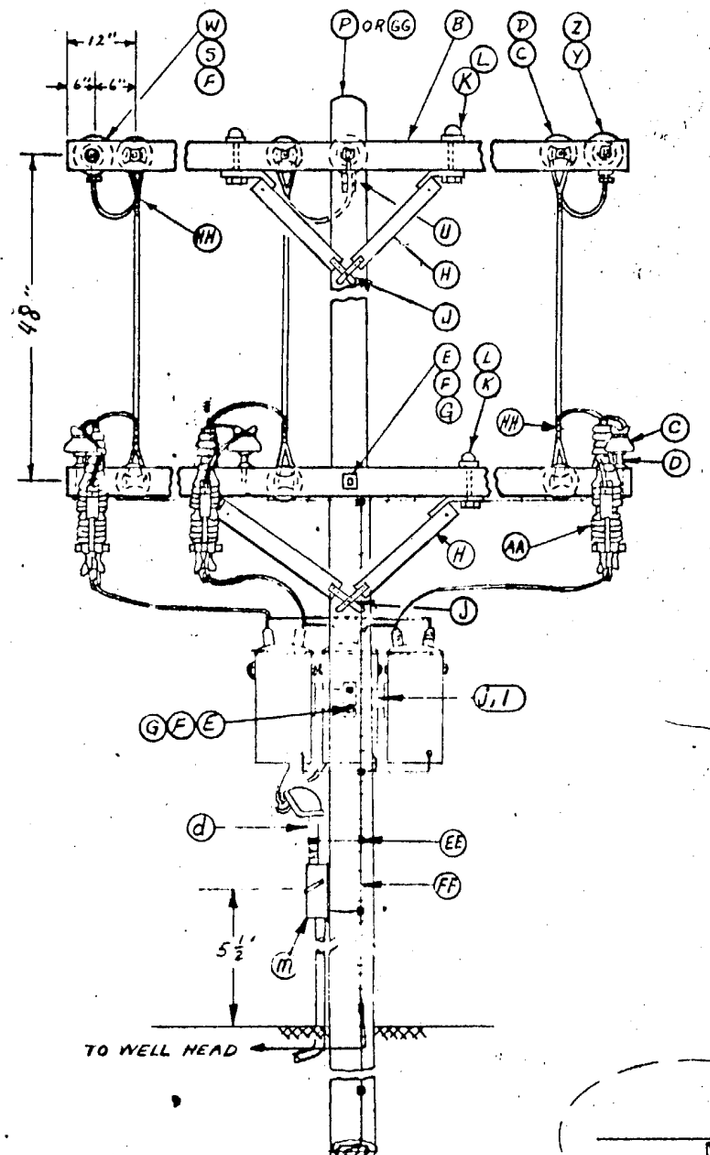
TITLE: MATERIAL FOR PRIMARY ANGLE STRUCTURE 60° - 90°

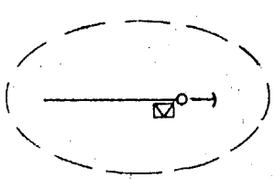
CONOCO

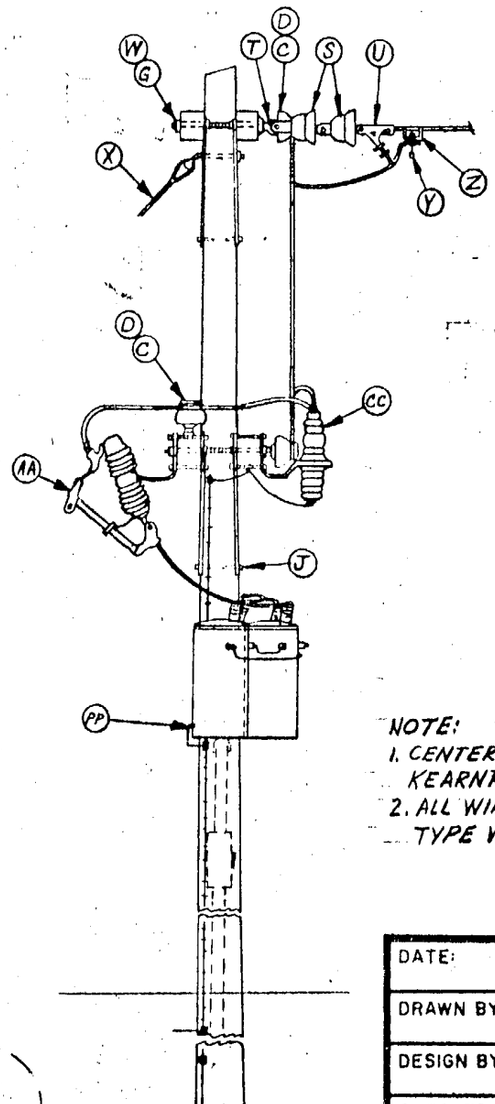
PRODUCTION DEPT. HOBBS DIVISION

JOB: Elec SPECS

DRAWING NO.: ES 23-A







ITEM	QTY REQ'D	REF
B	4	
C	9	
D	9	
E	3	
F	24	
G	12	
H	8	
J	4	
K	8	
L	8	
P OR GG	1	ES-1A, NOTE 5
S	6	
T	3	
U	3	
W	5	
X	1	
Y	3	
Z	3	
AA	3	
CC	3	
EE	8	
FF	1	
HH	6	
d	1	
J, I	1	ES-1A, NOTE 2
m	1	
PP	3	

NOTE:
1. CENTER PHASE ON BANK WILL HAVE EPOXY INS, KEARNRY NO. 323015-24 INSULATOR.
2. ALL WIRE FROM POINT "U" WILL BE INSULATED TYPE WIRE ON TRANSFORMER BANK.

DATE: 12-13-71	TITLE: SINGLE POLE SUBSTA. 1 PH. TRANS. CLUSTER MOUNT PRIM. DEAD-END - 12500/480 V. ACSR
DRAWN BY: ZRD	conoco
DESIGN BY: ZRD	PRODUCTION DEPT. HOBBS DIVISION
CHECKED BY:	JOB: ELEC SPECS
APPROVED BY:	DRAWING NO.: ES-9
SCALE: NONE	

ITEM	DESCRIPTION	A. B. CHANCE NO.	JOSLYN NO.	OTHER MFRS. NO.	NO. SUB.
A	35' class 6 creosoted pine pole				
B	3 1/2" x 4 1/2" x 8' treated crossarm				
C	High density wet process porcelain pin insulator		L63		
D	5/8" x 5" Forged steel pin w/sq. washer, nut, & locknut	881			
E	5/8" x 12" machine bolt w/ nut (or length req'd)	8812			
F	2 1/4" x 2 1/4" x 3/16" x 11/16" hole sq. washer	6813			
G	5/8" MF Locknut	3512			
H	Wood CROSSARM BRACE 1 5/8" x 2 5/8" x 59"			GRAY BAR #217	X
J	1/2" x 4" EZ Fetter Drive Log Screw	508754			
K	3/8" x 4 1/2" Carriage Bolt w/ Nut	8634 1/2			
L	3/8" MF Locknut	3510			
M	Preformed Aluminum Alloy Armor Rods, size req'd				
N	tie wire #6 strong alum. alloy				
O					
P	40' class 5 creosoted pine pole				
R	Aluminum double tab Squeeze on Connector for ACSR, Aluminum, or Copper-size req'd			KEARNEY SERIES "81"	X
S	6" Suspension Insulator	66200			
T	5/8" Standard Oval Eye Nut	6502			
U	Primary Dead End Clamp		L4050		
W	5/8" x 18" (or length req'd) Double Arming Bolt w/4 sq. nuts	8868			
X	guying detail - see dwg No. ES-10 for specs.				
Y	Hot Line Clamp	S1520AGP			
Z	Squeeze on basket, size required			KEARNEY	X

DATE: 12-27-71	TITLE: DESCRIPTION MATERIALS
DRAWN BY: E. WINTER	conoco
DESIGN BY:	PRODUCTION DEPT. HOBBS DIVISION
CHECKED BY:	JOB: ELEC SPECS
APPROVED BY:	DRAWING NO.: ES-1
SCALE: NONE	SHEET 1 OF 3

ITEM	DESCRIPTION	A. B. CHANCE NO.	JOSLYN NO.	OTHER MFRS. NO.	NO SUB.
AA	Primary Cutout - 100 amp, 15 KV, 16000 amp int. cap.	F2XR1015G			X
BB	General Purpose "U" bolt Clamp	UC510AGP			
CC	Lightening arrestor, 10 KV				
DD	Single phase oil switch, 14.4 KV				
EE	split bolt connector, size req'd			McGRAW-EDISON KNMC2	
FF	grounding specs. see dwg No. ES-11 & ES-1A, Note 3			BLACKBURN "K" SERIES	
GG	35' class 4 creosoted pine pole				
HH	Aluminum deadend Preforms for ACSR, size req'd				
JJ	30' class 6 creosoted pine pole				
KK	OVERHEAD GRND, #4 ACSR - If Req'd - Ref. Dwg ES-11, ES-1A - Note 3				
LL	ground connector, motor				
MM	600 V. secondary lightening arrestor single phase			HUBBELL KC-22	X
NN	Greenfield Type EF liquid-tight flexible steel conduit, size req'd, w/ necessary liquid-tight connectors.				
OO	req'd size LB fitting & cover & gasket				
PP	transformer tank grounding terminal	GWS-15			

DATE: 12-27-71	TITLE: DESCRIPTION MATERIAL
DRAWN BY: E. WINTER	conoco
DESIGN BY:	PRODUCTION DEPT. HOBBS DIVISION
CHECKED BY:	JOB: ELEC SPECS
APPROVED BY:	DRAWING NO.: ES-1
SCALE: NONE	SHEET 2 OF 3

ITEM	DESCRIPTION	A. B. CHANCE NO.	JOSLYN NO.	OTHER MFRS. NO.	NO SUB.
a	double upset bolt s/sq. nut, round washer, and cotter key on short end, sq. nut and NF locknut on long end, 15 1/8" long (or length required.)	7828			
b	wet process porcelain secondary spool insulator, 3", brown glaze		J101		
d	required size conduit w/ servicehead(s) & req'd size & rated insulated conductors. Ref. Dwg ES-1B Note: provide clamp and ground conduit				
e	parallel groove clamp, size req'd			BURNDY SERIES "UC"	
f	secondary insulator clevis for 4" insulator				
g	5/8" thimbleye nut	6510			
h	5/8" x 12" (or length req'd) straight thimbleye bolt w/sq. nut	5512			
j	transformer cluster mount bracket (small)			ALUMA-FORM 6M3-6	X
l	transformer cluster mount bracket (large)			ALUMA-FORM 15M3-6	X
m	req'd size raintight disconnect & fuses, 3-phase, 600 V. Ref. Dwg No. ES-1B				
n	16" cross plate anchor (or size req'd)	X-16			
q	8-way expanding anchor (size req'd)	88135			
t	4" brown glaze wet process porcelain secondary spool insulator		J0101		
u	5/8" x 7' thimbleye anchor rod w/nut (use twineye if req'd - Chance No. 5347)	5317 (NUT 55006P)			
aa	3/8" high strength guy strand (10,800 lb.)				
bb	preformed guy grip for 3/8" guy strand				
dd	5/8" x 10" angle thimbleye bolt w/nut	5010			
ee	3"x3"x1/4"x11/16" hole curved washer	6823 1/2			X
ff	6" - guy clamp w/3-1/2" bolts				
gg	medium size strain insulator				
hh	serving sleeve for 3/8" guy strand	6454			
jj	3/16" x 2-1/2" x 7" lift plate	7887			X
nn	pole bottom ground plate (may use butt-wrapp if desired)				
qq	Ground Connection (See Dwg. ES-12)				
rr	wet process porcelain secondary spool insulator, 3" - white glaze				
tt	wet process porcelain secondary spool insulator, 4" - white glaze				

DATE: 12-27-71	TITLE: DESCRIPTION MATERIALS
DRAWN BY: E. WINTER	
DESIGN BY:	conoco
CHECKED BY:	PRODUCTION DEPT. HOBBS DIVISION
APPROVED BY:	JOB: ELEC SPECS
SCALE: NONE	DRAWING NO.: ES-1 SHEET 3 OF 3