

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 ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☐MULTIPLE  
ZONE ☒

## 2. NAME OF OPERATOR

## 3. ADDRESS OF OPERATOR

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
At surface1980' FNL AND 1980' FNL  
At proposed prod. zone

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

## 10. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drig. 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.)

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	9 5/8"	32.3 #	1600'	600 SX CIRC
8 3/4"	7"	23 # & 26 #	6900'	14/25 CIRC

IT IS PROPOSED TO DRILL A STRAIGHT HOLE TO A TD OF 6900' AND  
COMPLETE AS A DUAL BLINERBY AND TURB OIL WELL.  
SEE ATTACHMENT FOR 10 POINT WELL PLAN.  
SEE ATTACHED FOR 13 POINT SURFACE USE PLAN.

RECEIVED

FEB 20 1979

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 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

TITLE ADMINISTRATIVE SUPERVISOR DATE 2-14-79

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

USGS 6  
NMFU 4  
JFB REL  
FILE  
VMS

\*See Instructions On Reverse Side

APPROVED  
AS AMENDEDMAR 1 1979  
JAMES F. SIMS  
DISTRICT ENGINEER

ATTACHMENT TO FORM 9-331 C  
APPLICATION FOR PERMIT TO DRILL

Continental Oil Company  
Warren Unit Nos. 70-74  
T-20S, R-38E  
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 shown on attached Proposed Well Plan.
4. The proposed casing program is as follows:

0' - 1600'	9 5/8", 32.3#, H-40, ST&C
0' - 5800'	7", 23#, K-55, ST&C
5800' - 6900'	7", 26#, K-55, ST&C
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' - 1600'	8.5 - 9.0 ppg	spud mud
1600' - 6900'	9.0 - 10.0 pg	saltwater gel
7. The auxiliary equipment to be used is:
  - (1) Kelly cocks
  - (2) floats at the bit
8. It is proposed to run GR CAL CNL FCD PDC logs at selected intervals, as shown on the attached Proposed Well Plan.
9. No abnormal pressures or temperatures are expected to be encountered in this well.
10. The anticipated starting date for the first well is February 11, 1978, with a duration of approximately 21 days for each well.

PEB:vjk

### PROPOSED WILL PLAY OUTLINE

WELL NAME: Warren Unit No. 73

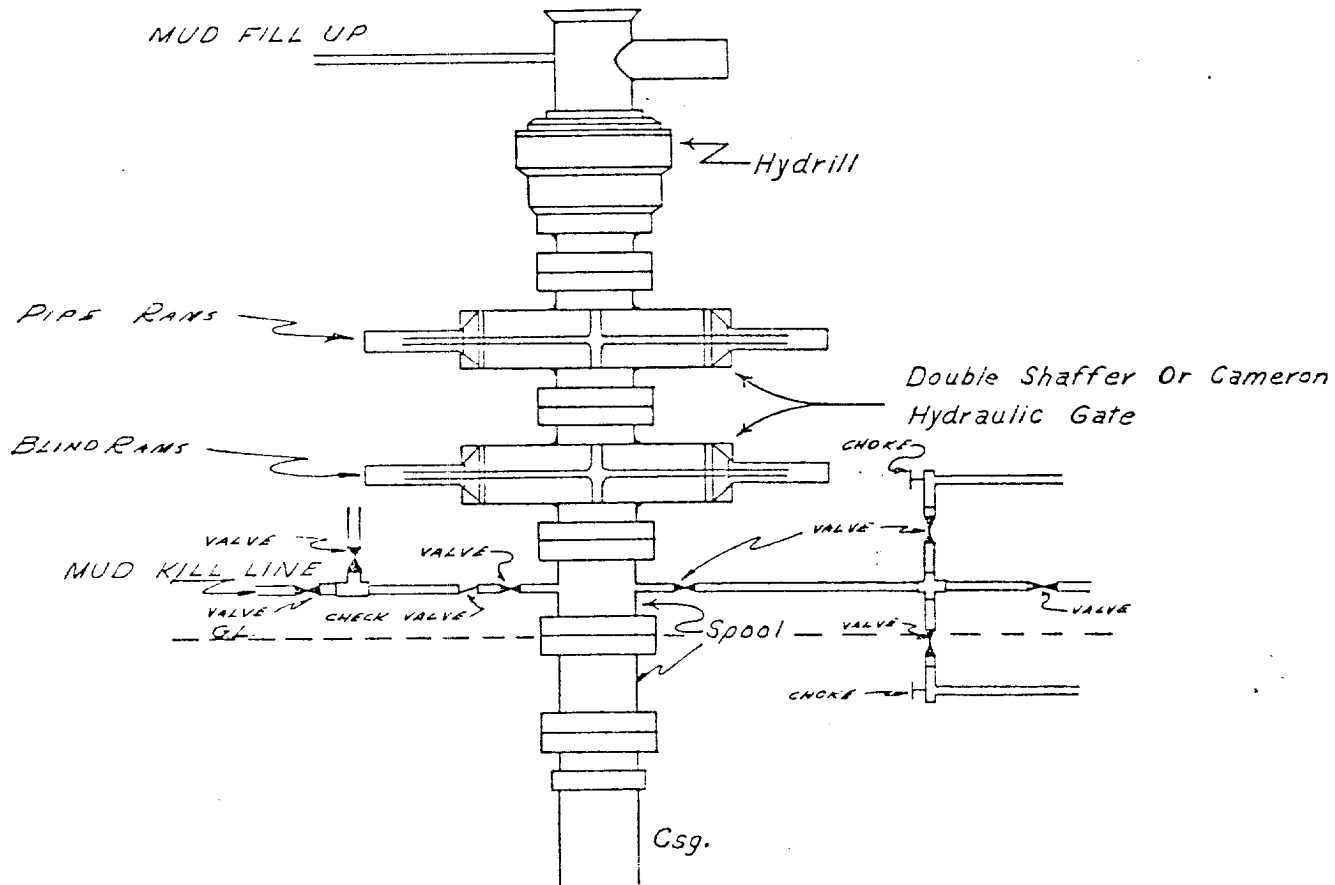
COUNTY: Lea

LOCATION: 1280' FNL & 1380' FNL  
Sec. 25 T-20S, R-33E

STATE: New Mexico

[illegible]

CONTINENTAL OIL COMPANY  
Blow-out Preventer Specifications



NOTE:

API SERIES 900

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.

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

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

All distances must be from the outer boundaries of the Section

Operator <b>Continental Oil Co.</b>			Lease <b>Warren Unit</b>			Well No. <b>73</b>
Initial Letter <b>F</b>	Section <b>25</b>	Township <b>20 South</b>	Range <b>38 East</b>	County <b>Lea</b>		

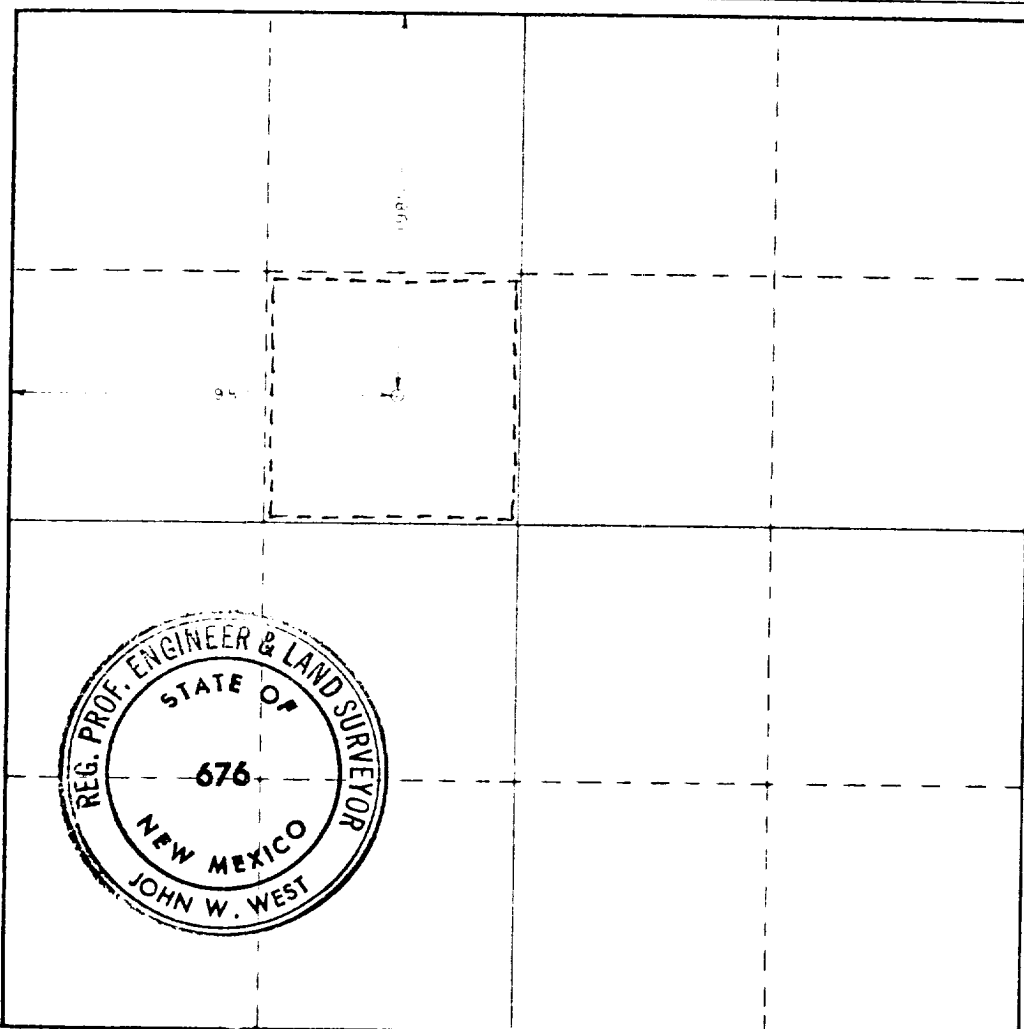
Annual Production Location of Well: <b>1980</b>		feet from the <b>North</b> line and <b>1980</b>		feet from the <b>West</b> line	
Ground Level Elev <b>3566.8</b>	Producing Formation <b>Blinberry and Tuba</b>	Pool <b>Blinberry Oil &amp; Gas / Warren Unit Oil</b>	Dedicated Acreage: <b>40</b>		Acres

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  
*John W. West*  
Position  
*Administrative Supervisor*  
Company  
*Continental Oil Co.*  
Date  
*Feb. 14, 1979*

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  
*January 10, 1979*  
Registered Professional Engineer and/or Land Surveyor

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

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600

District Engineer  
U. S. Geological Survey

Gentlemen:

Re: WARREN UNIT Nos 71, 72, 73, 74

This refers to the Form 9-331C, Application to Drill, Deepen or Plugback accompanying this letter. The undersigned hereby states that he has personally contacted EARL KORNELAY, the owner of the surface land where the proposed work is to be conducted and advised him of the proposed work, the construction site and pertinent roads included in the project. It is further stated that, upon being fully advised of the extent of the work and the effect upon the surface, said owner has consented to the said work and that agreement as to the compensation for damages to the surface estate has been reached.

It has been agreed, subject to change at that time, that upon abandonment of operations the roads shall be (ripped or ~~left intact~~) and the pad shall be (ripped or ~~left intact~~).

X *[Signature]*

STATE OF NEW MEXICO  
COUNTY OF LEA

Subscribed and sworn to before me this 15<sup>th</sup> day of February, 1974

*[Signature]*  
Notary Public

My commission expires 2-20-81

Continental Oil Company  
Surface Use Plan for 10 Wells in T-20S, R-38E  
Lea County, New Mexico

The plan is to accompany "Application for Permit to Drill" the subject wells. The following is a discussion of pertinent information concerning possible effect which the proposed drilling of the wells may have on the environment of the wells and road sites and surrounding acreage. A copy will be posted on the derrick floors so that all contractors and sub-contractors will be aware of all items of this plan.

1. Existing Roads

- A. The proposed well sites are as follows:  
Warren Unit No. 71 - 1980' FSL and 660' FWL, Section 25  
Warren Unit No. 72 - 1980' FSL and 1980' FWL, Section 25  
→ Warren Unit No. 73 - 1980' FNL and 1980' FWL, Section 25  
Warren Unit No. 74 - 660' FNL and 1980' FWL, Section 25  
SEMU Warren No. 103 - 1980' FNL and 330' FWL, Section 29  
SEMU Burger B No. 104 - 1980' FSL and 1650' FWL, Section 20  
SEMU Permian No. 105 - 1320' FSL and 1320' FWL, Section 19  
SEMU Permian No. 106 - 2640' FSL and 1320' FWL, Section 19  
SEMU Permian No. 107 - 2640' FSL and 2640' FWL, Section 19  
SEMU Burger B No. 108 - 1980' FSL and 330' FWL, Section 20
- B. Exhibit "A" is a portion of a New Mexico road map showing existing black top roads. Directions to the area are as follows: From Stanolind Road south of Hobbs, travel south on Highway 18 for approximately 9.5 miles to Conoco's Warren Unit. The Warren Unit wells are located on the east side of the highway. Access is obtained by driving on the lease road opposite Conoco's red, white, and blue pumping units. The remaining wells are accessed via the lease road opened by Conoco's red, white and blue cattleguard. Refer to attached Exhibit "B" for lease road directions.

- C. Access roads are shown on Exhibits "B" and "C".
- D. No improvement or maintenance is anticipated for the existing roads.

2. Planned Access Roads

- A. Width and Length: New roads required will be 18' wide and varying in length as shown on Exhibit "C". The new roads are labeled and coded on Exhibits "B" and "C".
- B. Turnouts: None
- C. Drainage Design: New roads will have a drop of 6" from center line on each side.
- D. Culverts, Cuts and Fills: No culverts, major cuts or fills are required.

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

F. Gates, Cattleguards, Fences: None required.

G. The proposed roads are staked.

3. Location of Existing Wells

See Exhibit "C"

4. Location of Existing and/or Proposed Facilities

A. Tank Batteries: Existing batteries are spotted on Exhibit "C".

B. Producing Facilities: No new producing facilities are required.

C. Oil Gathering Lines: Flowlines will lay on the surface alongside the roads.

D. Other Lines: Electrical power lines will be constructed on 330' spans as shown on Exhibit "E". The construction and equipment specifications are included.

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. Rehabilitation of the surface is planned to be completed within 45 days from commencement.

5. Water Supply

Water for the Warren Unit Wells will be hauled from Eunice, N. M. The remaining wells will be supplied from the Eumont Hardy Water System.

6. Source of Construction Materials

Caliche will be hauled over existing roads from an existing pit in Section 15, T-20S, R-38E. See Exhibit "C".

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 "D" 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 "D" shows the relative location and dimensions of the well pad, mud pit, reserve pit, 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: Rolling sand hills

B. Soil: Sandy

C. Vegetation: Shinnery, sparse

D. Surface Use: Grazing

E. Ponds and Streams: None within one mile.

F. Water Wells: See Exhibit "C"

G. Residences and Building: None

H. Arroyos, Canyons, Etc.: None

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

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  
W. D. Cates or H. C. Pokrandt  
1001 North Turner  
Hobbs, New Mexico 88240  
Phone: 393-4141

13. Certification

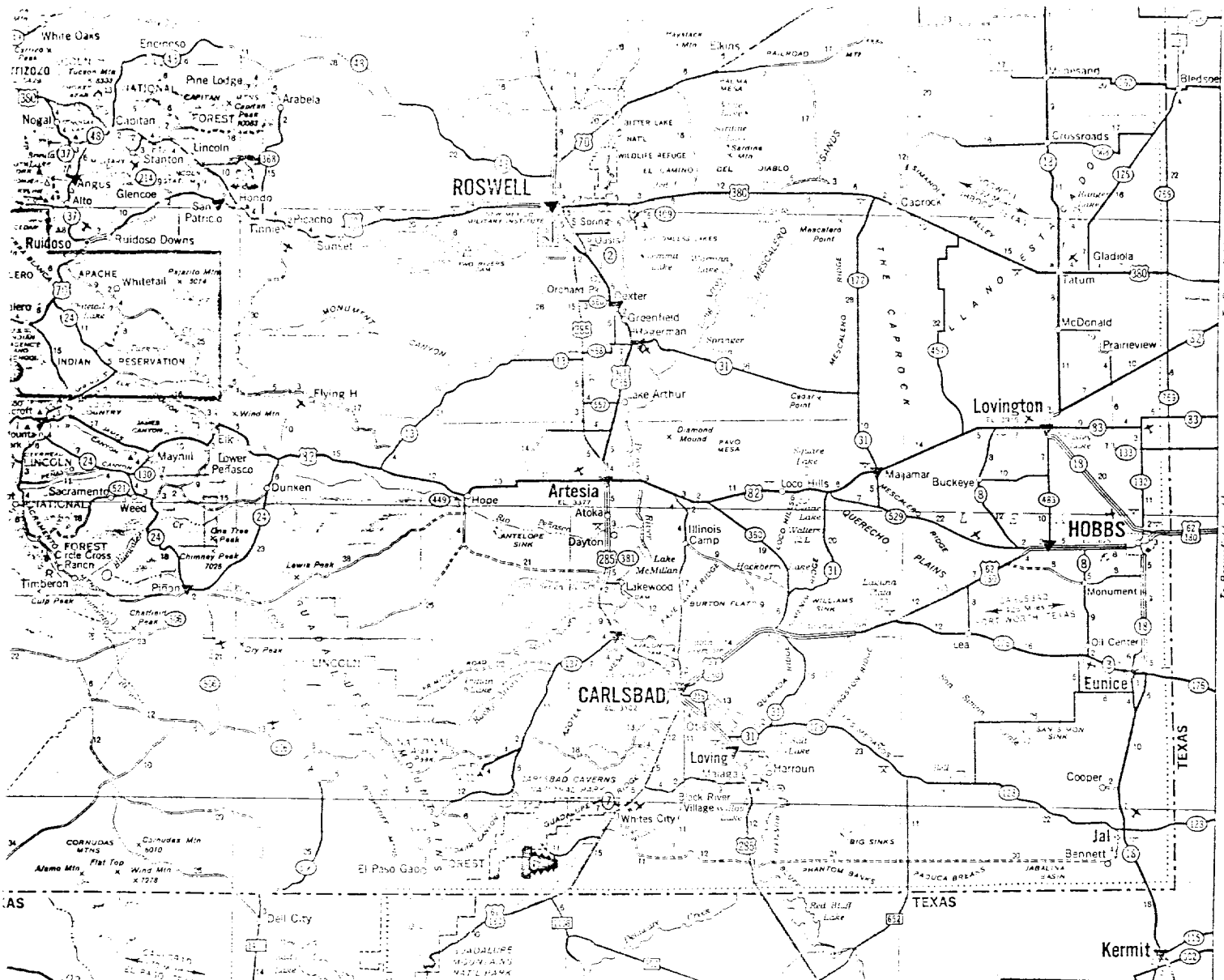
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill sites and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated 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.

2/13/79

DATE



H. C. Pokrandt  
Production Superintendent



1-1	San Antonio	C-4	Turkey	C-6	White	C-2
1-2	San Antonio	C-4	Turkey	C-6	White	C-2
1-3	San Antonio	C-4	Turkey	C-6	White	C-2
1-4	San Antonio	C-4	Turkey	C-6	White	C-2
1-5	San Antonio	C-4	Turkey	C-6	White	C-2
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1-99	San Antonio	C-4	Turkey	C-6	White	C-2
1-100	San Antonio	C-4	Turkey	C-6	White	C-2

**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 Shoppers.

Other CONOCO station locations.

Locations where CONOCO DEALERS provide Travel Shoppers with Sanitary Disposal Facilities. Look for this sign:

**CONOCO**

**T TRAILER DISPOSAL**

**TOURIST ATTRACTIONS**

**HISTORICAL**

**SCENIC**

**GENERAL**

Attraction points described on reverse side

**How to read your map of NEW MEXICO**

SCALE IN MILES AND KILOMETERS

ONE INCH 22 MILES 0 5 10 20 30

ONE INCH 35 KILOMETERS 0 5 10 20 30 48

**HIGHWAY MARKERS**

INTERSTATE 40 UNITED STATES 66 STATE 41 TEXAS 138

**ROAD CLASSIFICATIONS**

CONTROLLED ACCESS DIVIDED HIGHWAYS

OTHER DIVIDED HIGHWAYS

PRINCIPAL THROUGH HIGHWAYS

OTHER THROUGH HIGHWAYS

CONNECTING HIGHWAYS

LOCAL ROADS

**MILEAGES**

LONG DISTANCE MILEAGES SHOWN IN RED

MILEAGE BETWEEN TOWNS AND JUNCTIONS

MILEAGE BETWEEN DOTS

ONE MILE EQUALS 1.6 KILOMETERS

ONE KILOMETER EQUALS 0.6 MILES

**SPECIAL FEATURES**

STATE PARKS

RECREATION AREAS

PORTS OF ENTRY

POINTS OF INTEREST

**SCHEDULED AIRLINE STOPS**

MILITARY AIRPORTS

OTHER AIRPORTS

TOURIST INFORMATION

SKI AREAS

SELECTED REST AREAS

BOAT RAMPS

TIME ZONE BOUNDARY

**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

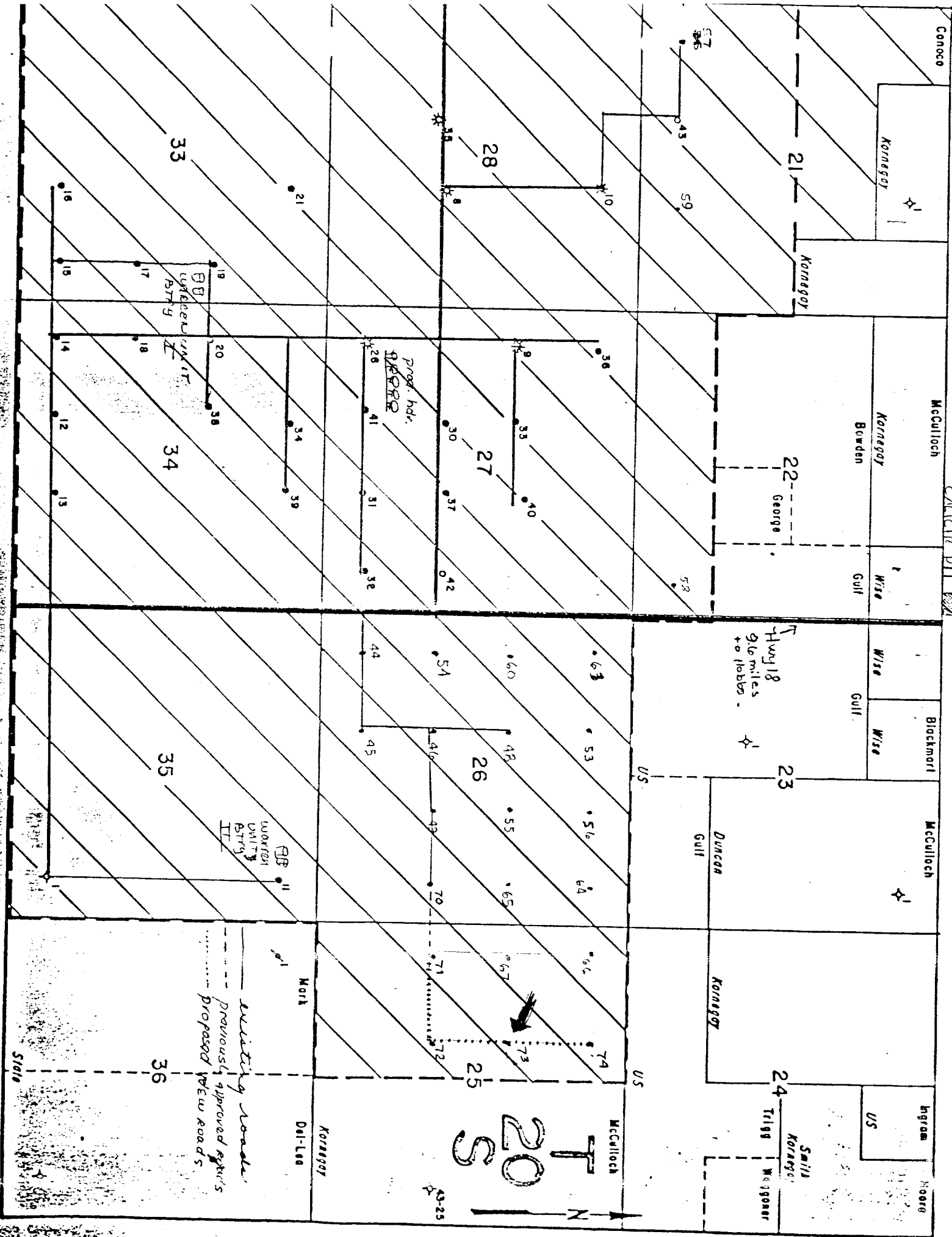
50,000 to 100,000

100,000 and over

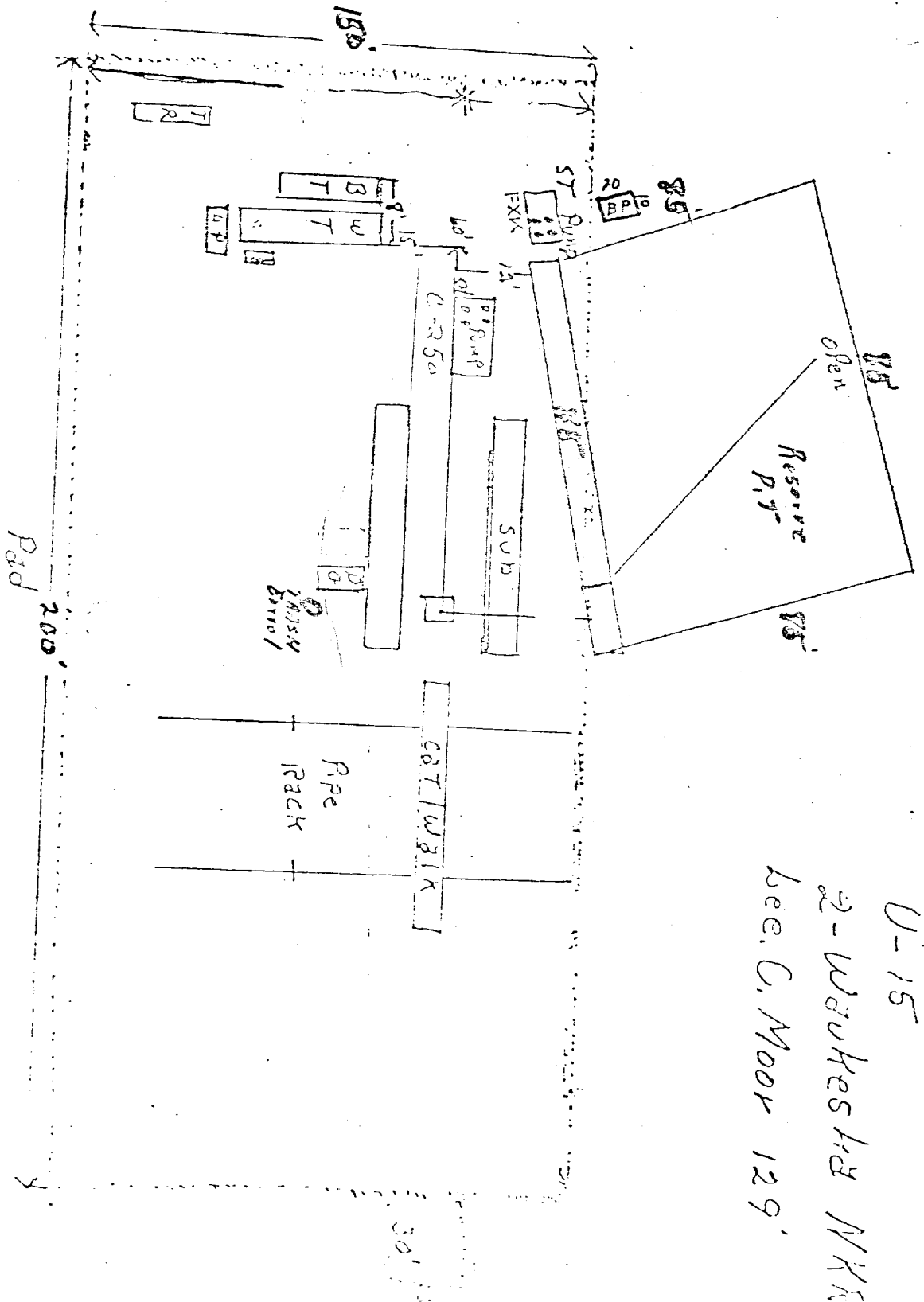
**THE H. M. GOSHA COMPANY**

1977 Edition



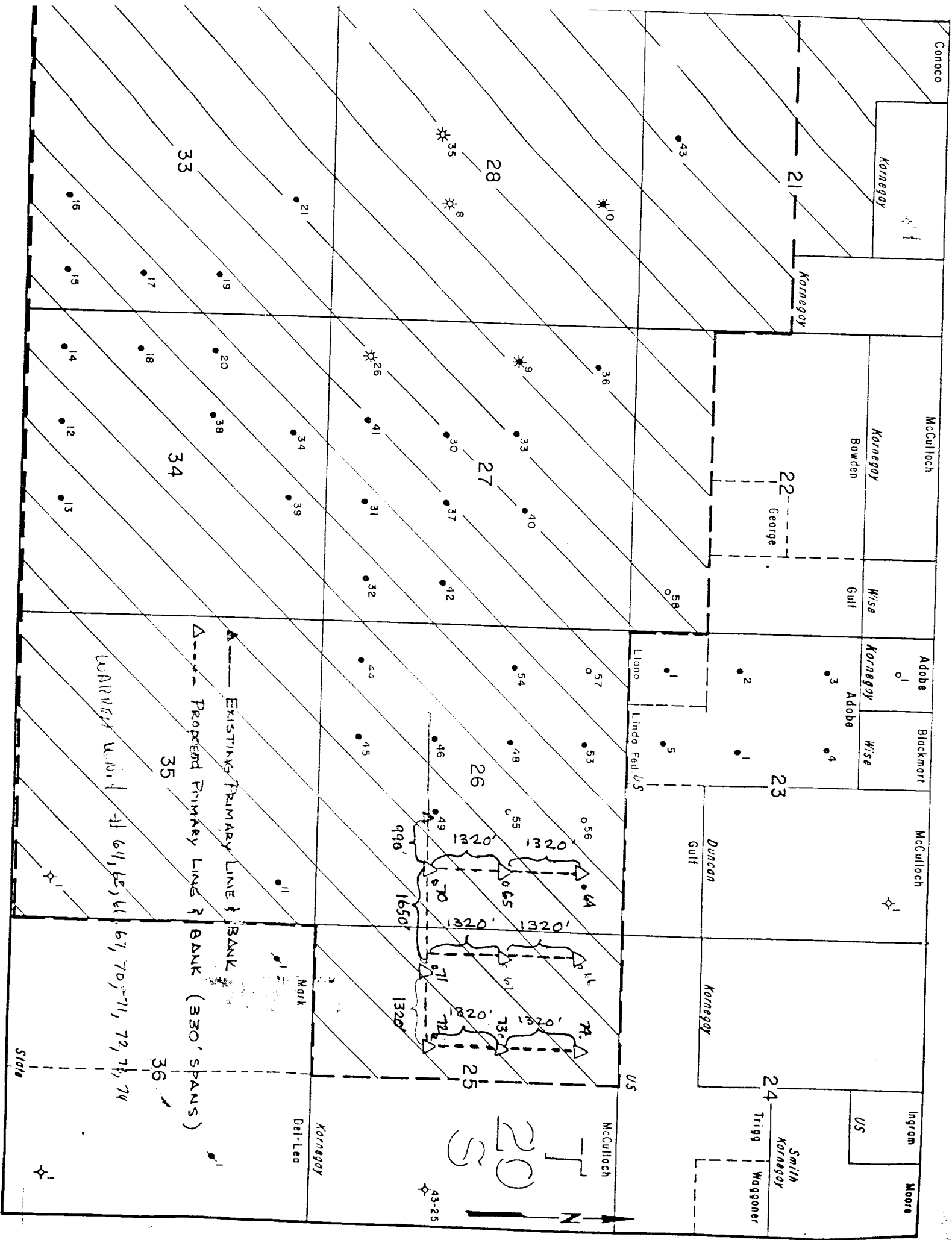


Hondo Rig #1  
 U-15  
 2-Waukesha N/KR  
 Lee C. Moor 129'



Continents / Oil Co.

EXHIBIT



Conoco

Kornegay

21

Kornegay

McCulloch

Kornegay

Bowden

22

George

Wise

Gulf

Adobe

01

Kornegay

Adobe

Wise

Blackmort

03

04

23

McCulloch

01

Duncan

Gulf

Ingram

US

Moore

24

Trigg

Smith

Kornegay

Wagoner

McCulloch

20 T S

43-25

Kornegay

Del-Lee

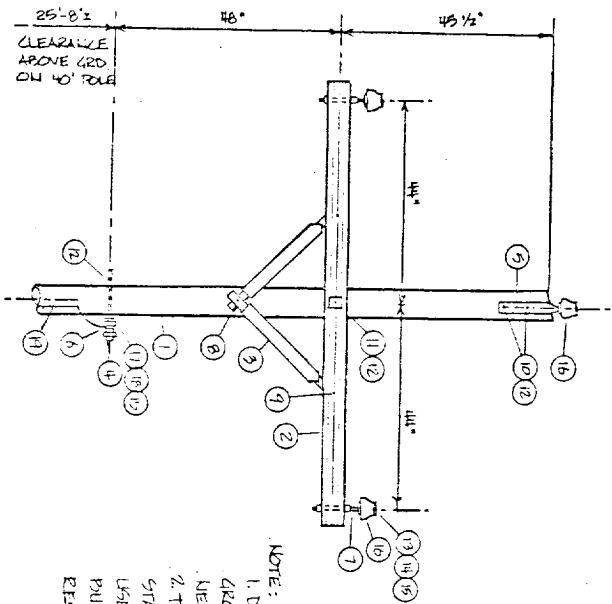
35

36

EXISTING PRIMARY LINE & BANK  
Proposed Primary Line & BANK (330' SPANS)

CARRIAGE ROAD 64, 65, 66, 67, 70, 71, 72, 73, 74

State

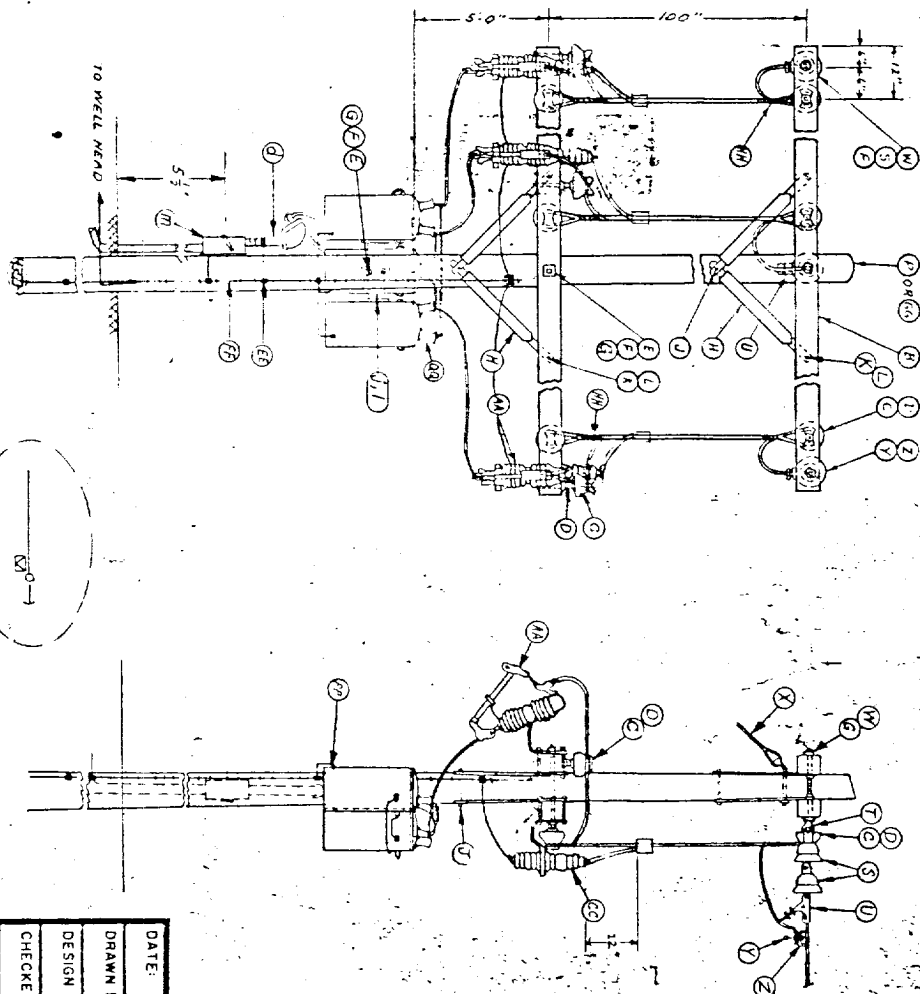


NOTE:  
 1. DO NOT INSTALL  
 GROUND WIRE FIRST  
 NEUTRAL CONDUCTOR  
 2. THIS CONSTRUCTION  
 STANDARD TO BE  
 USED ON ALL LINES  
 BUILT ON NATIONAL  
 EFFICIENCY LANDS

MATERIALS					
ITEM	DESCRIPTION	REQ'D	ITEM	DESCRIPTION	REQ'D
1	POLE 40'	1	17	NEUTRAL CONDUCTOR	—
2	CROSS ARM, 3/4"x4 1/2"x8	1	18	ARMOR ROD	1
3	PLATE, WOOD	2	19	POLE GROUND WIRE, #6 AL.	5
4	STUD RAIL	1			
5	RIDGE PIN, 1/2"	1			
6	STEEL INSULATOR	2			
7	STEEL PIN, 3/8"x5"	1			
8	LAG SCREW, 1/2"x4"	2			
9	CARBIDE BOLT, 3/8"x4 1/2"	2			
10	WASHER, 2 1/2"x5/8"	1			
11	MACHINE BOLT, 3/8"x4"	5			
12	WASHER, 2 1/2"x5/8"	—			
13	PHASE CONDUCTOR	3			
14	ARMOR ROD	3			
15	TE WIRE, #6 AL.	1			
16	PIN INSULATOR, 9 KV	3			

DATE: 7-15-71	TITLE: PRIMARY III LINE POLE
DRAWN BY: J. F. McNeill	12,000 VOLT AXLR
DESIGN BY:	
CHECKED BY: SP	CONOCO
APPROVED BY: SP	HOBB'S DIVISION
SCALE: 1/2" = 1'	12,000 VOLT AXLR
	ES-26





ITEM	QTY	REF
B	4	
C	9	
D	9	
E	3	
F	24	
G	12	
H	8	
J	4	
K	8	
L	8	
Part 1	ES-1A, NOTE 5	
5	6	
7	3	
U	3	
W	5	
X	1	
Y	3	
Z	3	
AA	3	
CC	3	
EE	8	
FF	1	
HH	6	
II	1	
KL	1	ES-1A, NOTE 2
PD	3	
QA	6	

NOTE:  
 1. CENTER PHASE ON TANK WILL HAVE  
 EPOXY INSULATOR, KEENEY # 92019-24  
 INS. (REF - REFER TO DETAIL E4-20)  
 2. ALL WIRE FROM POINT "U" WILL BE  
 INSULATED TYPE WIRE ON TRANSFORMER  
 PAIR.

DATE:	12-13-71	TITLE:	SINGLE POLE SUBSTA.
DRAWN BY:	AKD	1PH TRANS. CLUSTER MOUNT	
DESIGN BY:	AKD	PRIM DEAD-END: 15300/480V AC SR	
CHECKED BY:		PRODUCTION DEPT.	CONOCO
APPROVED BY:		HOBBBS DIVISION	
SCALE:	NONE	JOB:	ELIC SPECS
		DRAWING NO.:	ES-9

ITEM	DESCRIPTION	A. B. CHANCE NO.	JOSLYN NO.	OTHER PKGS. 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		463		
D	5/8" x 5" forged steel pin w/eq. washer, nut, & locknut	881			
E	5/8" x 12" machine bolt w/ nut (or length req'd)	881/2			
F	2 1/4" x 2 1/4" x 3/16" x 11/16" hole sq. washer	681/2			
G	5/8" HF locknut	351/2			
H	1/4" x 1 1/4" x 28" flat crossarm brace	7128			
I	1/2" x 4" E2 Patter Drive Log Screw	508754			
J	3/8" x 4 1/2" Carriage Bolt w/ Nut	8634 1/2			
K	3/8" HF locknut	3510			
L	Preformed Aluminum Alloy Armor Rods, size req'd				
M	tie wire #6 strong alum. alloy				
N	Epoxy Insulator (Extension Link)				
O	35' class 5 creosoted pine pole				
P	Aluminum double tab Squeeze on Connector for ACSB, Aluminum, or Copper-size req'd				
R	6" Suspension Insulator	66200			
S	5/8" Standard Oval Eye Nut	6502			
T	Finally Dead End Clamp	44230			
U	5/8" x 18" (or length req'd) Double Arming Bolt w/ sq. nuts	8868			
W	Buying detail - see deg. No. ES-10 for specs.				
X	Hot Line Clamp	515204GP			
Y	Squeeze on basket, size required				
Z					

DATE: 12-27-71		TITLE: DESCRIPTION MATERIALS	
DRAWN BY: E. WINTER		<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <b>CONOCO</b> </div> PRODUCTION DEPT. HOBBS DIVISION DRAWING NO. ES-1 SHEET 1 OF 5	
DESIGN BY:			
CHECKED BY:			
APPROVED BY:			
SCALE: NONE		JOB: ELEC SPECS	

ITEM	DESCRIPTION	A. B. CHANGE NO.	JOSLYN NO.	OTHER MFRS. NO.	NO SUB.
AA	Primary Cutout - 100 amp, 15 KV, 16000 amp int. cap.	F2XX1015G			X
BB	General Purpose "up" bolt clamp	UC5104GP			
CC	Lightening arrester, 10 KV			HYDRA-TECH KWH-22	
DD	Single phase oil switch, 14.4 KV			BLACK BURN R-S1415	
EE	split bolt connector, size req'd				
FF	Grounding specs. see det. No. ES-11 & ES-1A, Note 3				
GG	35' class 4 creosoted pine pole				
HH	Aluminum deadend reformed for ACSB, size req'd				
II	30' class 6 creosoted pine pole				
JJ	OVERHEAD GRND, #4 ACSB - If Req'd - Ref. det. ES-11,				
KK	FS-1A - Note 3				
LL	Ground connector, motor				
MM	600 V. secondary lightning arrester single phase				
NN	Greenfield Type EF liquid-tight flexible steel conduit, size req'd, w/ necessary liquid-tight connectors.				
OO	req'd size 1/8 fitting & cover & gasket				
PP	transformer tank grounding terminal	GW5-15			
QQ	bird guards (insulating boots on transformer bushings)			DR5104-1015G UC5104GP	

DATE: 12-27-71		TITLE: DESCRIPTION MATERIAL	
DRAWN BY: E. WINTER		<div style="border: 1px solid black; border-radius: 10px; padding: 5px; display: inline-block;">CONOCO</div> PRODUCTION DEPT.      HOBBS DIVISION CHECKED BY:      JOB:      DRAWING NO: ES-1 APPROVED BY:      REC. SPECS      SHEET 2 OF 3	
DESIGN BY:			
CHECKED BY:			
APPROVED BY:			
SCALE: NONE			

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ITEM	DESCRIPTION	A. B. CHANCE NO.	JOSLYN NO.	OTHER MFRS. NO.	NO. SUB.
a	double upset bolt w/eq. nut, round washer, and cotter key on short end, eq. nut and HP locknut on long end, 15 1/8" long (or length required.)	742B			
b	wet process porcelain secondary spool insulator, 3" brown glaze		4101		
d	required size conduit w/ servicehead(s) & req'd size & rated insulated conductors. Ref. Deg. ES-18 Note: provide clamp and ground conduit parallel groove clamp, size req'd			EUREBY SERIES "UC"	
e	secondary insulator clevis for 4" insulator				
f	5/8" thimble nut	6510			
h	5/8" x 1/2" (or length req'd) straight thimble bolt w/eq. nut	5512		ALUMALIGHT EM3-6	
j	transformer cluster mount bracket (small)			ALUMALIGHT EM3-6	X
l	transformer cluster mount bracket (large)				X
m	req'd size rainlight disconnect & fuses, 3-phase, 600 V. Ref. Deg. No. ES-18				
n	16" cross plate anchor (or size req'd)	X-16			
q	8-way expanding anchor (size req'd)	88/35			
t	4" brown glaze wet process porcelain secondary spool insulator		4101		
u	5/8" x 7' thimble anchor rod w/nut (use twineye if req'd - Chance No. 5367)	5317 (NUT 55006P)			
va	3/8" high strength guy strand (10,800 lb.)				
vb	preformed guy grip for 3/8" guy strand	5010			
vd	3" x 3" x 1/4" x 11/16" hole curved washer	6823 1/2			X
ve	6" - guy clamp w/3-1/2" bolts				
ff	medium size strain insulator				
gg	servicing sleeve for 3/8" guy strand	6454			
hh	3/16" x 2-1/2" x 7" lift plate	7887			X
nn	pole bottom ground plate (may use but-wrap if desired)				
qq	Ground Connection (See Deg. ES-12)				
rr	wet process porcelain secondary spool insulator, 3" - white glaze				
tc	wet process porcelain secondary spool insulator, 4" - white glaze				

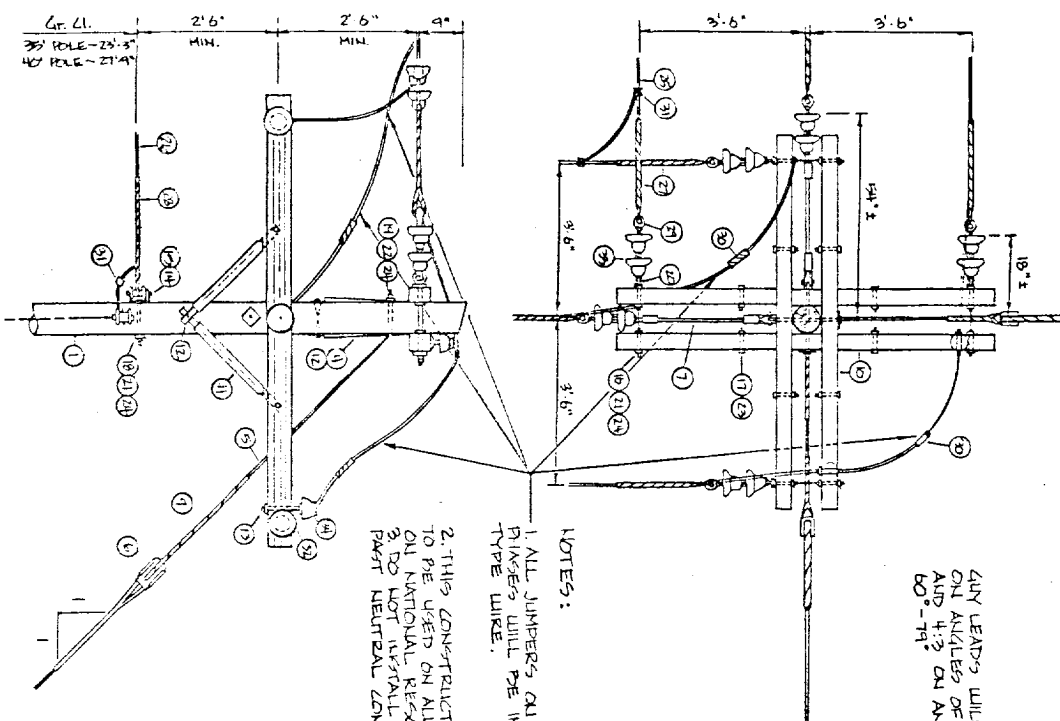
DATE: 12-27-71
DRAWN BY: E. WINTER
DESIGN BY:
CHECKED BY:
APPROVED BY:
SCALE: NONE

TITLE: DESCRIPTION MATERIALS
CONOCO
PRODUCTION DEPT.
HOBBBS DIVISION
DRAWING NO. ES-1
SHEET 5 OF 5

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FEDERAL BUREAU OF INVESTIGATION  
WASHINGTON, D.C. 20535



GUY LEADS WILL BE 1:1 ON ANGLES OF 80°-90° AND 4:3 ON ANGLES OF 60°-79°

NOTES:

1. ALL JUMPERS ON CONDUCTOR RIVETS WILL BE INSULATED TYPE WIRE.
2. THIS CONSTRUCTION STANDARD TO BE USED ON ALL LINES BUILT ON NATIONAL RESERVE LANDS.
3. DO NOT INSTALL GROUND WIRE PAIR NEUTRAL CONDUCTOR.

MATERIALS	
ITEM	DESCRIPTION
1	POLE, LENGTH CLASS 1
2	ANCHOR, 8"
3	ANCHOR, 80D 9/8" x 7"
4	GUY ATTACHMENT, 1/2" DIA
5	GUY CABLE, 3/8" DIA
6	GUY INSULATOR, 80D
7	END OF INSULATOR, LEADNEY # 32305-24
8	CLAMP, 3/8" DIA
9	GUY GRIP, 3/8"
10	BOSS, 80D, 8"
11	POLE, 30" DIA
12	1/4" SCREW, 1/2"
13	STEEL, PIN 3/8" x 5"
14	BACK, 1-POINT
15	STEEL, INSULATOR, 3"
16	POLE, DIA 9/8" x 10"
17	POLE, DIA 3/8" x 4 1/2"
18	POLE, DIA 3/8" x 10"
19	POLE, DIA 3/8" x 12"
20	EYE WIT, 5/8"
21	WASHER, 2 1/4" FLAT
22	WASHER, 3" CURVED
23	LOCK WIT, 3/8"
24	LOCK WIT, 3/8"
25	PRIME CONDUCTOR, NO.
26	NEUTRAL CONDUCTOR, NO.
27	POLE, 30" DIA
28	POLE, 30" DIA
29	CLAMP, THIMBLE
30	JUMPER, SLEEVE, NO.
31	CONDUCTOR, 5.0. CUL. AL.
32	INSULATOR, 80D, 8"
33	INSULATOR, 80D, 8"
34	THE WIRE, NO. 6 AL.

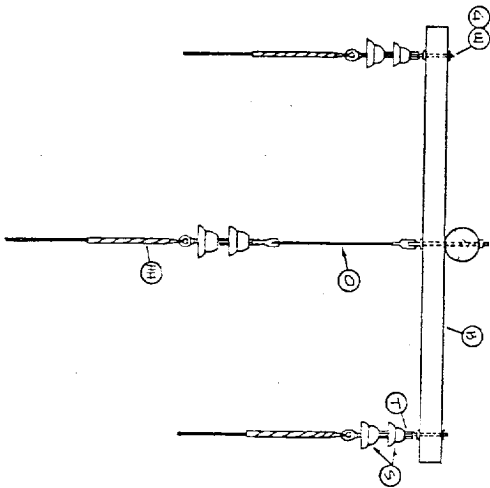
DATE: 7-15-77		TITLE: PRIMARY ANGLE STRUCTURE	
DRAWN BY: [signature]		60°-90° 12,500 VOLT ASR	
DESIGN BY:		CONOCO	
CHECKED BY: [signature]		HOBB'S DIVISION	
APPROVED BY: [signature]		DRAWING NO: ES-27	
SCALE: 1/2"=1'-0"		ELECT. SPECS.	

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ITEM	QTY
B	1
C	3
HH	3
O	1
S	6
T	2
W	3

NOTE:  
FOR MATERIALS, SEE  
DRUIDS. ES-1

DATE: 7-15-77		TITLE: EPOXY INSULATOR (EXTENSION LINK)	
DRAWN BY: J. MORTILL		PRODUCTION DEPT. <b>CONOCO</b>	
DESIGN BY:		HOBBS DIVISION	
CHECKED BY: SK		JOB:	
APPROVED BY: SP		ELEC. SPECS.	
SCALE: 1/2" = 1"		DRAWING NO.: E3-28	

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