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.

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
CONTINENTAL OIL COMPANY

3. ADDRESS OF OPERATOR
P.O. BOX 460 HOBBS, N.M. 88240

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
At surface
660' FNL and 660' FWL
At proposed prod. zone
same

RECEIVED
DEC 27 1978
U. S. GEOLOGICAL SURVEY
HOBBS, NEW MEXICO

5. LEASE DESIGNATION AND SERIAL NO.
LC 063458

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
NMFU

8. FARM OR LEASE NAME
WARREN UNIT

9. WELL NO.
61

10. FIELD AND POOL, OR WILDCAT
~~WARREN~~ - BLINEBRY + TUBB

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SEC. 26 T 20S R 38E

12. COUNTY OR PARISH
LEA

13. STATE
NM.

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

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
1920

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
6800'

20. ROTARY OR CABLE TOOLS
ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
3559.5' GR

22. APPROX. DATE WORK WILL START*
JAN. 15, 1979

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12¼"	9⅝"	32#	1600'	600 sx
8¾	7"	23# / 26#	5800# / 1020'	1480 sx

IT IS PROPOSED to drill a straight hole to a TD of 6800' AND complete AS A Blinebry and Tubb dual oil well.

SEE ATTACHMENT FOR 10 point well plan including formation tops, casing program, mud program, B.O.P. program.

SEE ATTACHED FOR Surface Use PLAN.

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"

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 Administrative Supervisor DATE 12-27-78

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED AS AMENDED
DATE JAN 23, 1979
JAMES F. SIMS
DISTRICT ENGINEER

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:

3 USGS 6
NMFU 4
FILE

*See Instructions On Reverse Side

JFB RELEASE.

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

Continental Oil Company
Warren Unit No. 61
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#, H-40, STC
0-5800'	7", 23#, K-55, STC
5800-6820'	7", 26#, K-55, STC

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'-6820'	9.0 - 10.0 ppg salt water 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 FDC 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 is January 15, 1979 with a duration date of approximately 21 days.

PEB:vjk

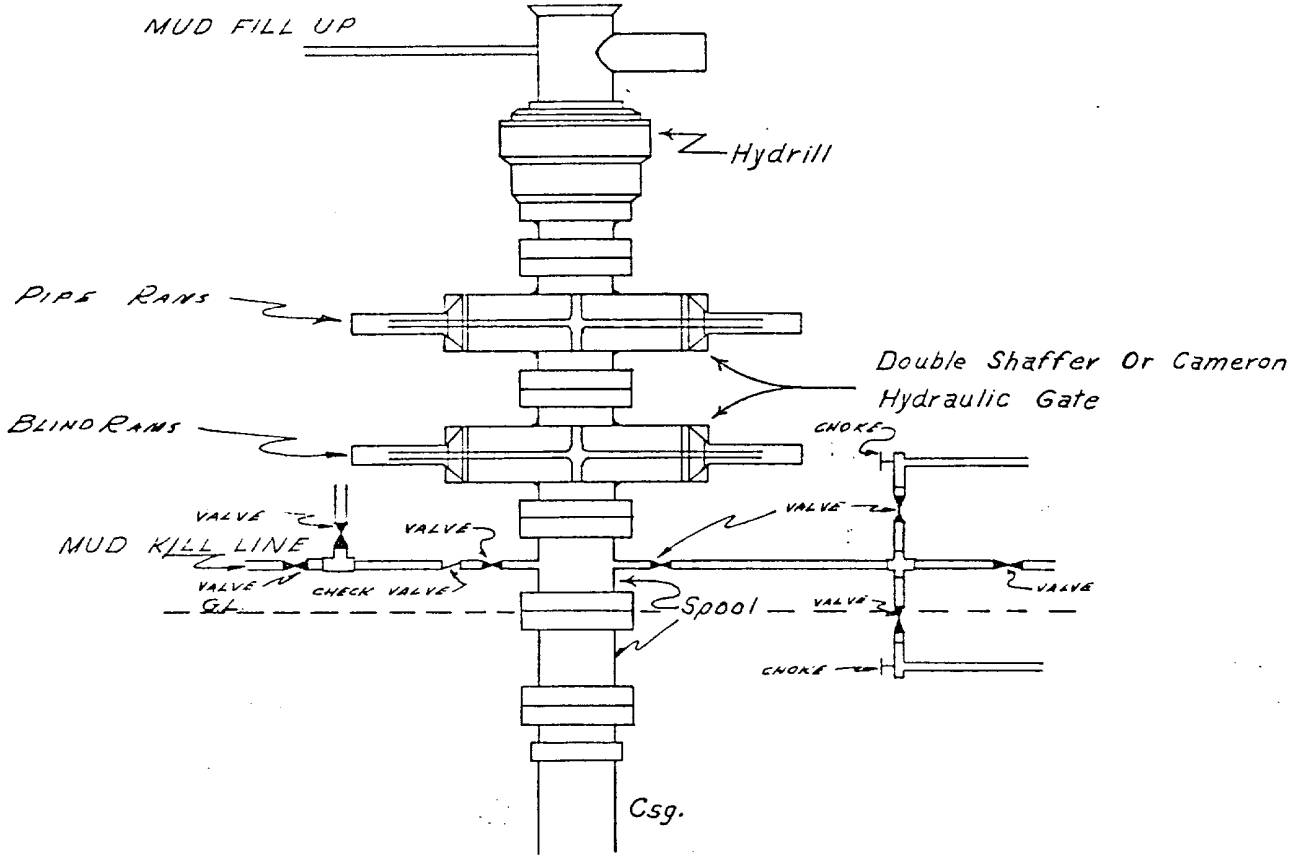
PROPOSED WELL PLAN OUTLINE

WELL NAME: Warren Unit No. 61 COUNTY: Lea

LOCATION: 660' FNL & FWL STATE: New Mexico
Sec. 26, T20S, R38E

DEPTH	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
	Pleistocene									
	Water SS. 50-	150								
			Geolograph Deflection 0-TD							
1000										
	Rustler Anhy.	1560		12 1/4	9 5/8	1600'			8.5-9.0	Fresh Water
	Salado Salt	1650								
2000										
	Base Salt 2710									
	Yates SS. 2850									
3000										
	Queen SS. 3670									
4000										
	San Andres dolo.	4250								
5000										
	Glorieta SS.	5550								
6000	Blinebry Mkr.	6010	GR-CNL-FDC DLL TD-2600'				14.9	Less Than 8.5		
	Tubb 6490									
	Tubb dolo.	6640								
	Drinkard 6770			8 3/4	7"	6820'	15.1	Less Than 8.5	9.0-10.0	Salt Gel
7000	TD 6820									

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.

NEW MEXICO OIL CONSERVATION COMMISSION

WELL LOCATION AND ACREAGE DEDICATION PLAT

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 Company	Warren Unit	61

Unit Letter	Section	Township	Range	County
D	26	20 South	38 East	Lea

Actual Footage Location of Well:
660 feet from the North line and 660 feet from the West line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
3559.5	Blinebry + Tubb	Warren	40 Acres

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

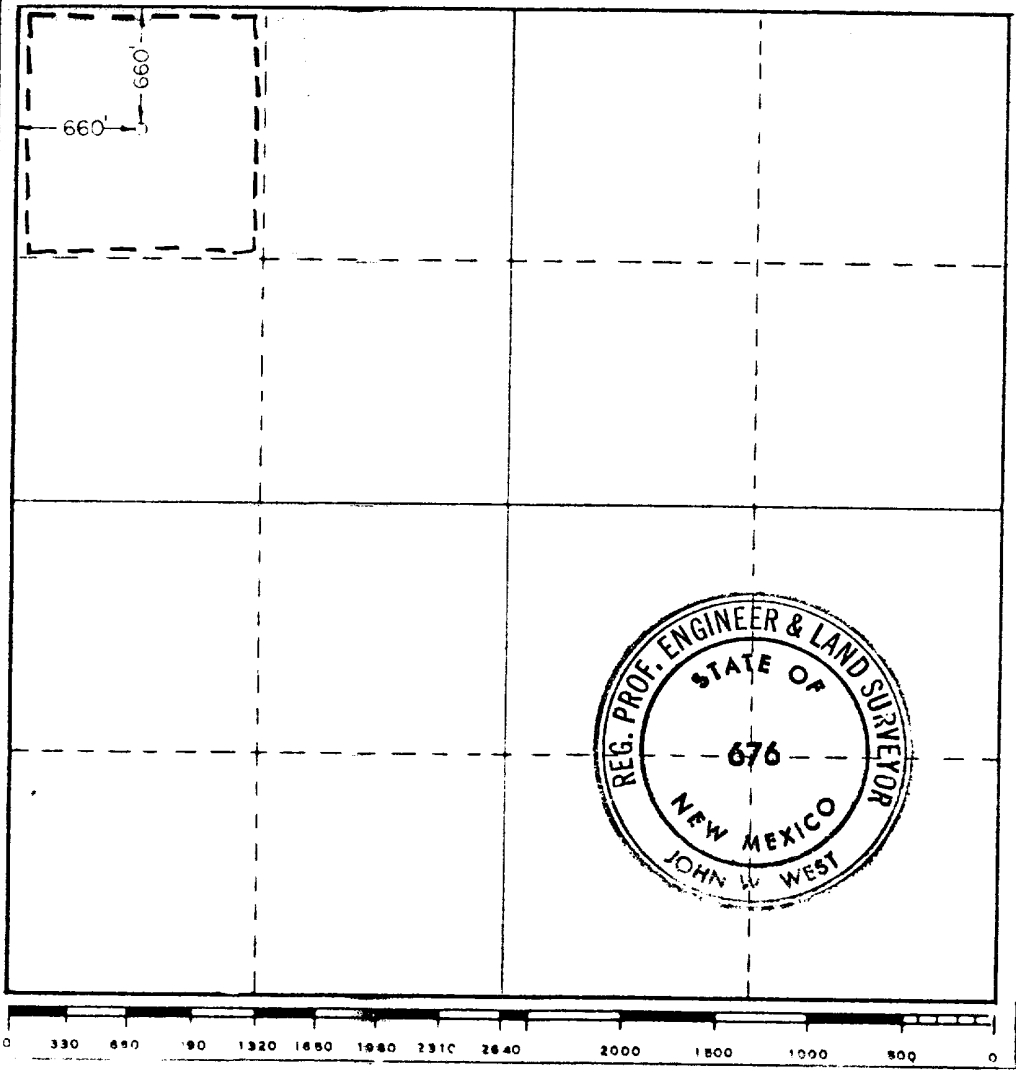
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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: Wm. A. Butterfield
Position: Administrative Supervisor
Company: Continental Oil Co.
Date: 12-27-78

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 Surveyed: Nov. 4, 1978

Registered Professional Engineer and/or Land Surveyor

John W. West

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

SURFACE USE PLAN
Continental Oil Company
Warren Unit No. 61
T-20S, R-38E
Lea County, New Mexico

The plan is to accompany "Application for Permit to Drill" the subject well. 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' FNL and 660' FWL of Section 26, T-20S, R-38E, Lea County, New Mexico.

B. Exhibit "A" is a portion of a New Mexico road map showing existing black top roads. Directions to the location (outlined in red on map) are as follows: Travel south on Highway 18 out of Hobbs approximately ten miles. Turn east on the lease road opposite from Conoco's red, white, and blue pumping units.

C,D,E. 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 1200' long. This new road is labeled and coded on Exhibits "B" and "C".

B. Turnouts: One

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

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: No new tank batteries required. See attached Exhibit "B".

B. Producing Facilities: No new

C. Oil Gathering Lines: Follow road right-of-way

D. Other Lines: None 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. Rehabilitation of the surface is planned to be completed within 45 days from commencement.

5. Water Supply

Water will be hauled from Eunice, New Mexico.

6. Source of Construction Materials

A. Caliche to be purchased from Earl Kornegay.

B. Caliche will be hauled from an existing pit in SE/SE of Section 15. See attached Exhibit "B".

C. The caliche will be hauled on existing roads.

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: Flat

B. Soil: Sandy

C. Vegetation: Sparse

D. Surface Use: Grazing

E. Ponds and Streams: None within one mile

F. Water Wells: None within one mile

G. Residences and Buildings: None within one mile

H. Arroyos, Canyons, Etc.: None within one mile

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
W. D. Cates or H. C. Pokrandt
1001 N. 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.

12-27-78
Date

DIVISION MANAGER

PEB:vjk

District Engineer
U. S. Geological Survey

Gentlemen:

re: Warren Unit No. 61

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 Kornegay, 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.

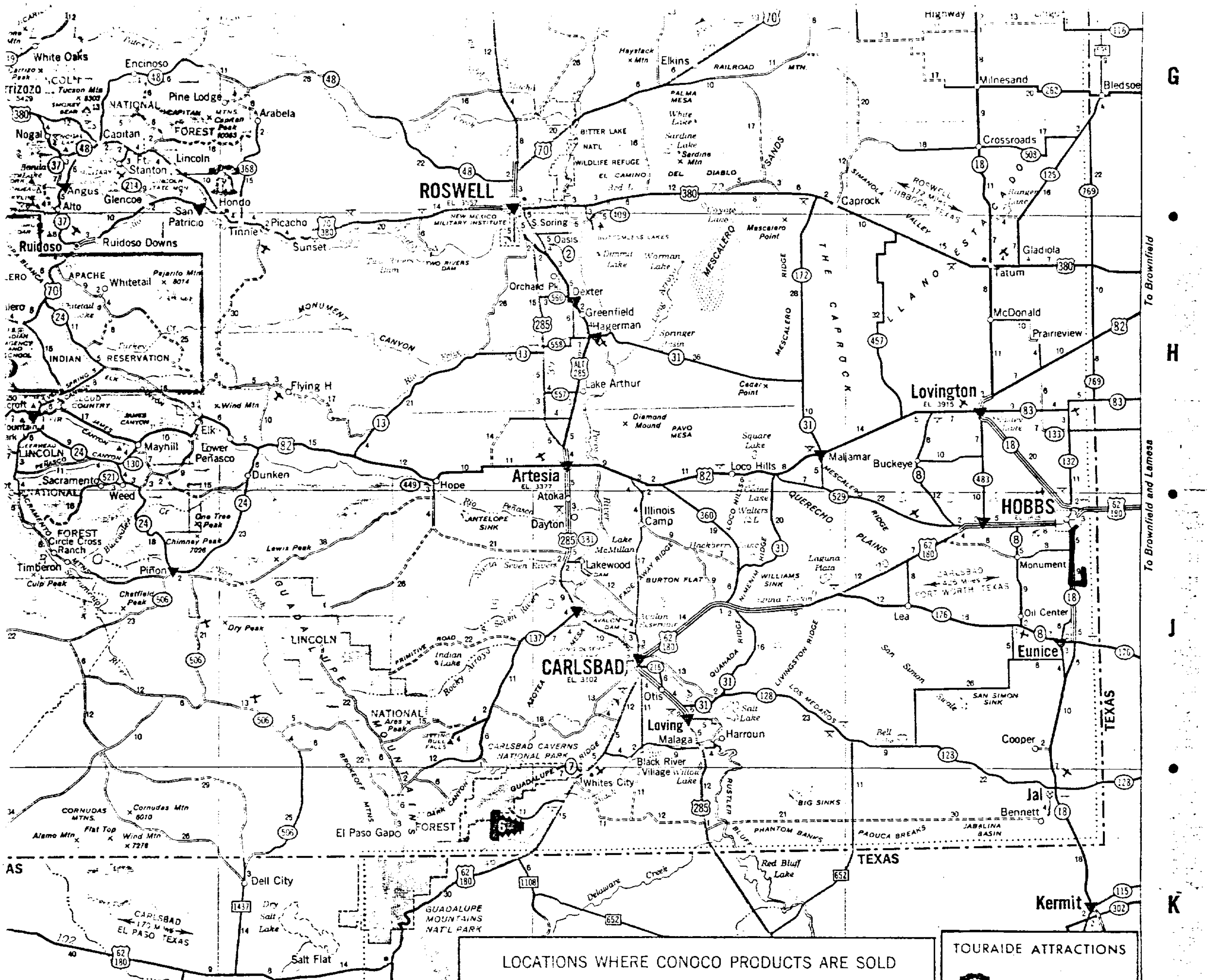
It has been agreed, subject to change at that time, that upon abandonment of operations the roads shall be (~~ripped~~ or left intact) and the pad shall be (~~ripped~~ or left intact).

STATE OF NEW MEXICO
COUNTY OF LEA

Subscribed and sworn to before me this 22nd day of December, 1978

Notary Public

My commission expires 2-20-81



LOCATIONS WHERE CONOCO PRODUCTS ARE SOLD

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

▼ Other CONOCO station locations.

▽ Locations of CONOCO Travel Shoppes.

▽ Locations where CONOCO DEALERS provide Trailer Travelers with Sanitary Disposal Facilities. Look for this sign: T TRAILER DISPOSAL

CONOCO

TOURAIDE ATTRACTIONS

HISTORICAL

SCENIC

GENERAL

Attraction points described on reverse side

-598-J-X

21-160-NMX7

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 FARM OR RANCH 308

ROAD CLASSIFICATIONS

CONTROLLED ACCESS DIVIDED HIGHWAYS (Divided / Undivided) — Interstate interchange numbers are mileposts — Interchanges

OTHER DIVIDED HIGHWAYS

PRINCIPAL THROUGH HIGHWAYS — Paved

OTHER THROUGH HIGHWAYS — Paved / Gravel

CONNECTING HIGHWAYS — Paved / Gravel

LOCAL ROADS In unfamiliar areas inquire locally before using these roads — Paved / Gravel / Dirt

MILEAGES

LONG DISTANCE MILEAGES SHOWN IN RED

MILEAGE BETWEEN TOWNS AND JUNCTIONS

MILEAGE BETWEEN DOTS

ONE MILE EQUALS 1.6 KILOMETERS — ONE KILOMETER EQUALS .6 MILES

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

POPULATION SYMBOLS

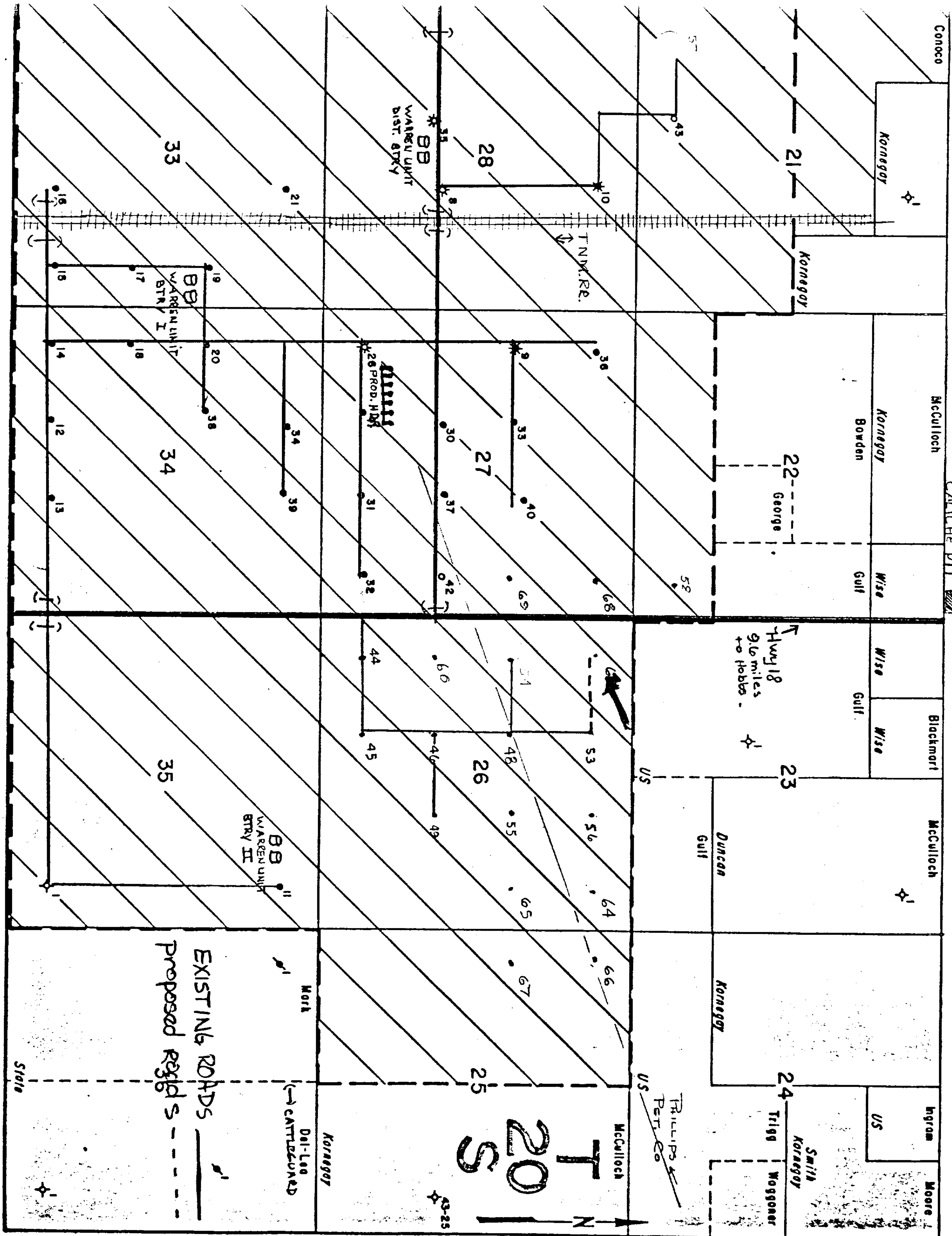
State Capital — 2,500 to 5,000 — 25,000 to 50,000

Under 1,000 — 5,000 to 10,000 — 50,000 to 100,000

1,000 to 2,500 — 10,000 to 25,000 — 100,000 and over

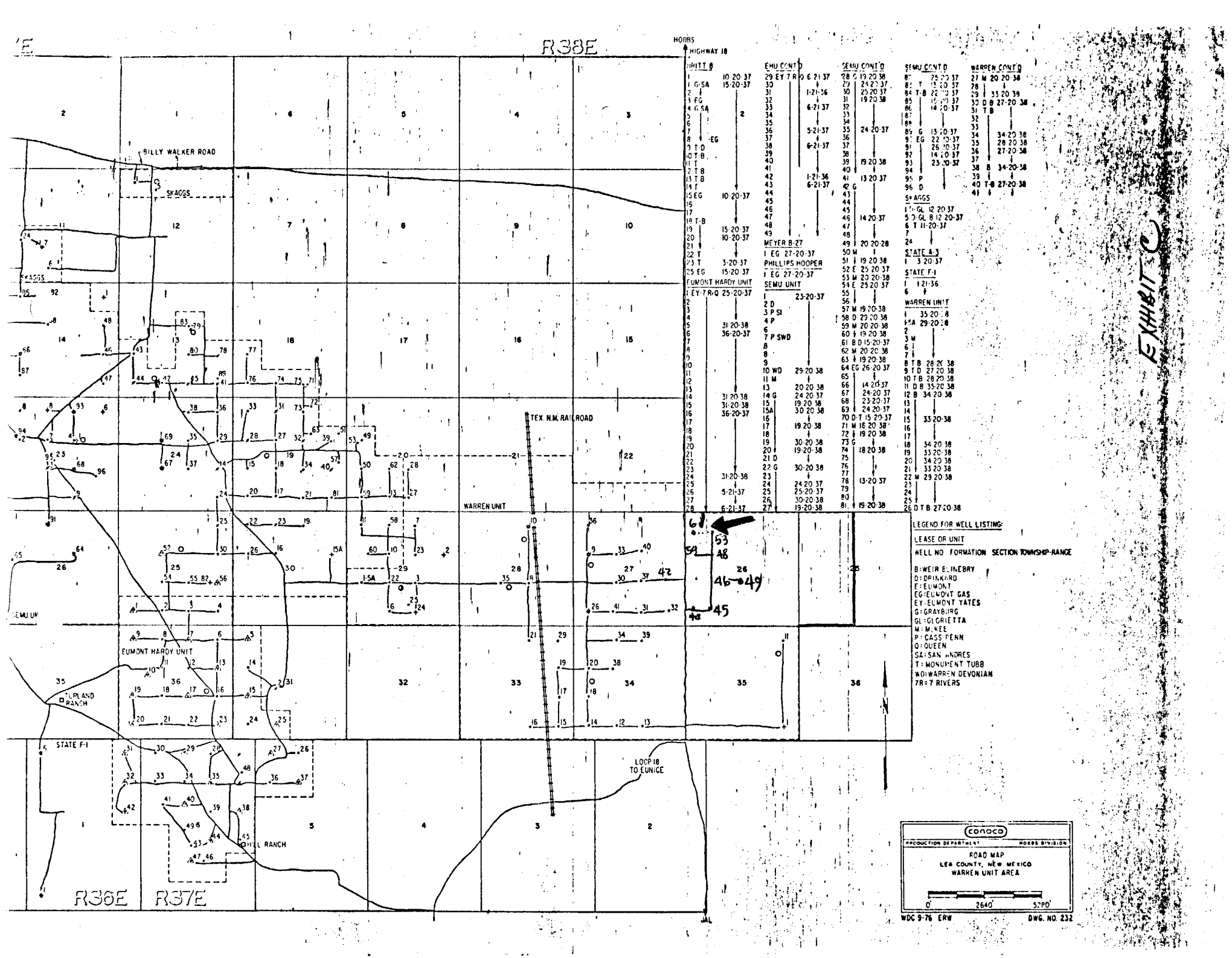
1977 Edition

Lithographed in U.S.A.

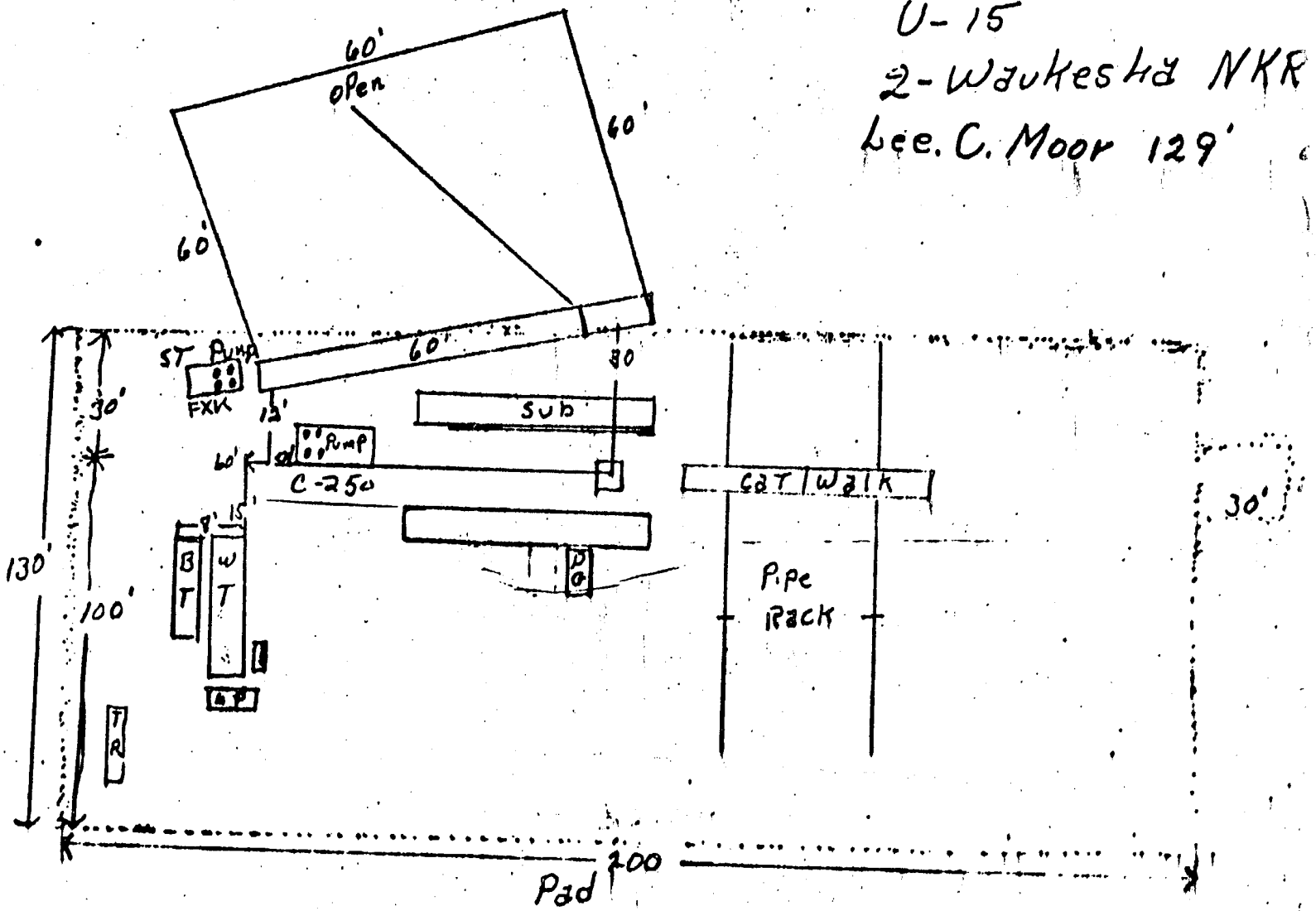


Conoco
Kornegay
21
28
33
BB
WARREN UNIT
DIST. BTRY
TNM.RR.
BB
WARREN UNIT
BTRY I
McCulloch
Bowden
Kornegay
22
George
CALICHE PIT
Gulf
Wise
26 PROD. HDR
27
34
Hwy 18
9.6 miles
to Hobbs
Blackmore
Wise
Gulf
23
US
26
35
BB
WARREN UNIT
BTRY II
McCulloch
Duncan
Gulf
Kornegay
25
US
PHILLIPS PET. Co
McCulloch
24
Ingram
US
Smith
Kornegay
Moore
Trigg
Waggoner
T
20
S
N
Mork
Kornegay
Del-Lea
(—) CATTLEGUARD
EXISTING ROADS
Proposed Roads
36
State
43-25

EXHIBIT B


R38E
HOBBS
HIGHWAY 18
BILLY WALKER ROAD
SKAGGS
TEX. N.M. RAILROAD
WARREN UNIT
EUMONT HARDY UNIT
TUPLAND RANCH
STATE F-1
HILL RANCH
LOOP 18 TO EUNICE
R36E
R37E
SHITT B
EUMONT HARDY UNIT
MEYER B-27
PHILLIPS HOOPER
SEMU UNIT
STATE A-3
WARREN UNIT
LEGEND FOR WELL LISTING:
LEASE OR UNIT
WELL NO. FORMATION SECTION TOWNSHIP-RANGE
B: WEIR BLINEBRY
D: DRINKARD
E: EUMONT
EG: EUMONT GAS
EY: EUMONT YATES
G: GRAYBURG
GL: GLORIETTA
M: McKEE
P: CASS PENN
Q: QUEEN
SA: SAN ANDRES
T: MONUMENT TUBB
WD: WARREN DEVONIAN
7R: 7 RIVERS
conoco
PRODUCTION DEPARTMENT
HOBBS DIVISION
ROAD MAP
LEA COUNTY, NEW MEXICO
WARREN UNIT AREA
0
2640'
5280'
WDC 9-76 ERW
DWG. NO. 232
EXHIBIT C

Hondo Rig #1
U-15
2-Waukesha NKR
Lee. C. Moor 129'

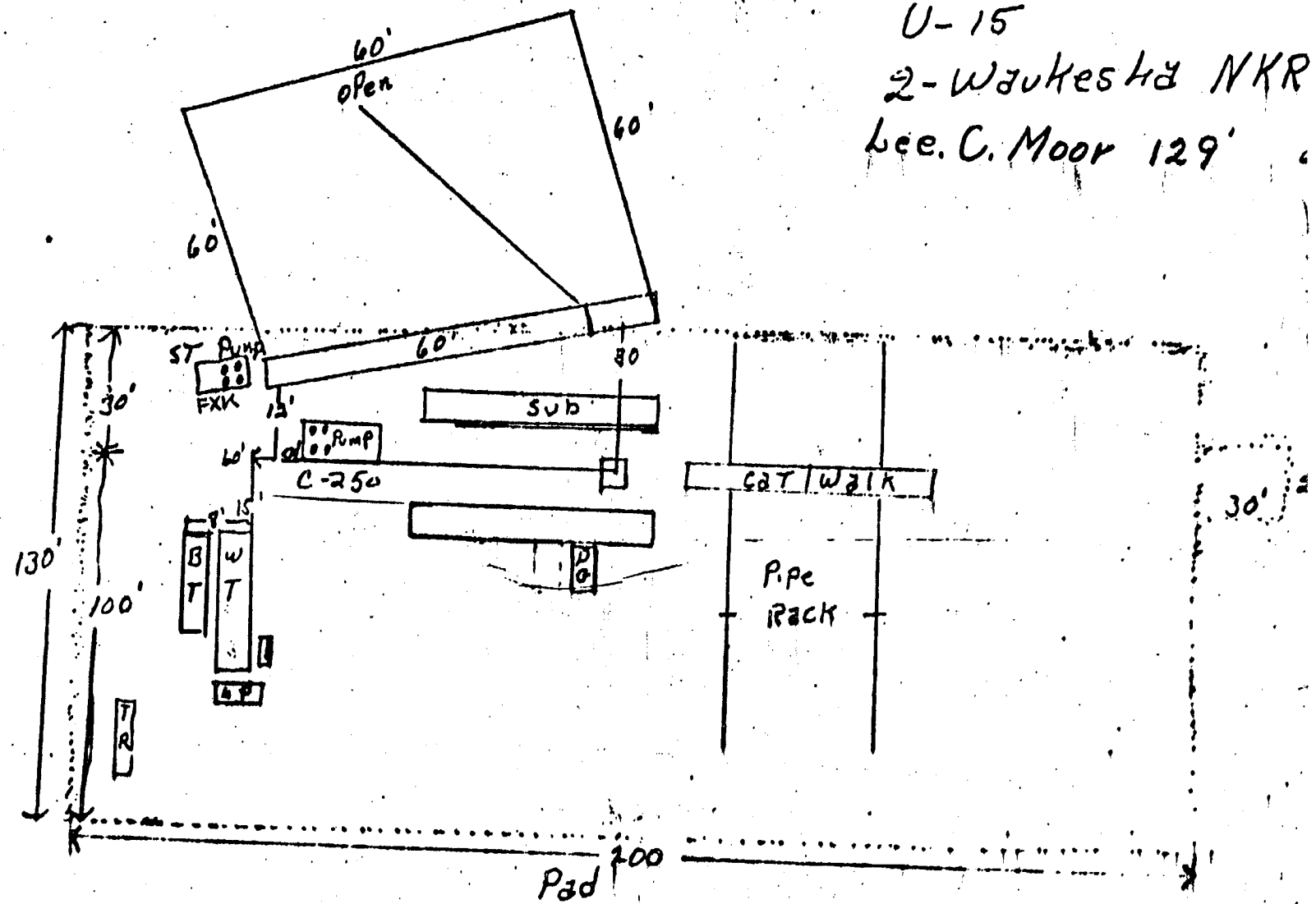


Hondo Rig #1

U-15

2-Waukesha NKR

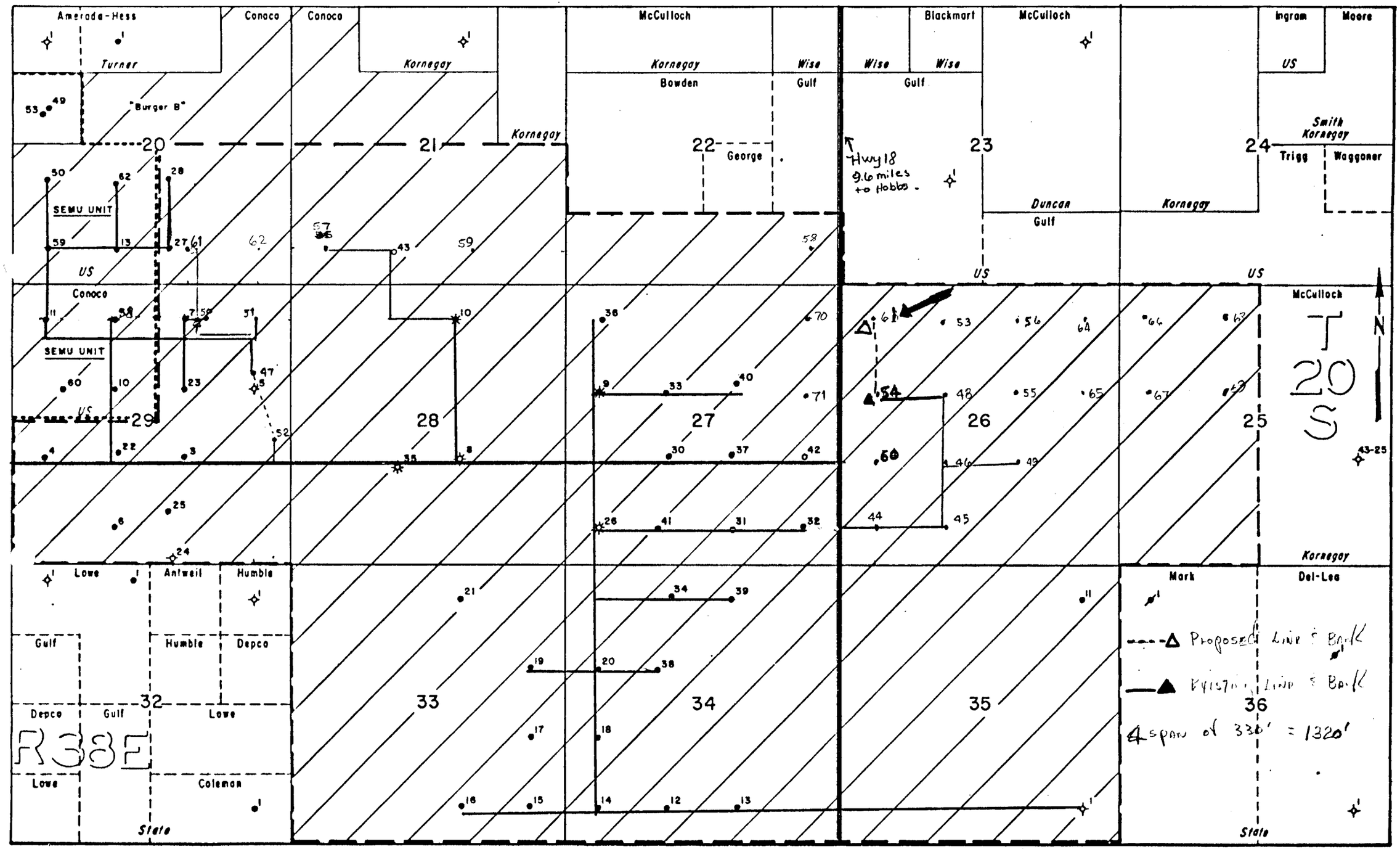
Lee. C. Moor 129'



Power Distribution Plan - Warren Unit No. 61

A plot is attached showing the proposed well location, existing roads and existing power lines. It is proposed to tie in an existing primary line at Warren Unit No. 54 and construct a primary line at 330' per span with a transformer bank at the well site. The proposed route is 1320' long, and is staked. Schematics are attached showing equipment design and material.

PEB:vjk


Amerada-Hess
Conoco
Conoco
McCulloch
Blackmart
McCulloch
Ingram
Moore
Turner
Kornegay
Kornegay
Wise
Wise
Wise
US
Bowden
Gulf
Gulf
"Burger B"
Smith
Kornegay
20
21
Kornegay
22
George
23
24
Trigg
Waggoner
Hwy 18
9.6 miles
to Hobbs
Duncan
Gulf
Kornegay
SEMU UNIT
US
US
US
Conoco
McCulloch
SEMU UNIT
T
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S
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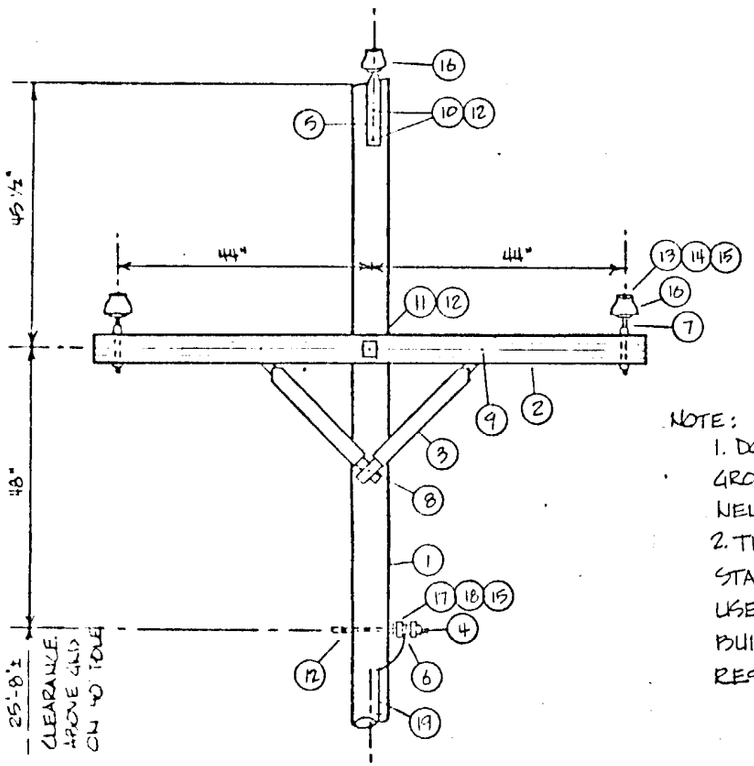
29
28
27
26
25
Kornegay
Lowe
Antwell
Humble
Mark
Del-Lee
Gulf
Humble
Depco
32
33
34
35
36
Depco
Gulf
Lowe
R38E
Lowe
Coleman
Proposed Line & Bank
Existing Line & Bank
4 span of 330' = 1320'
State
State

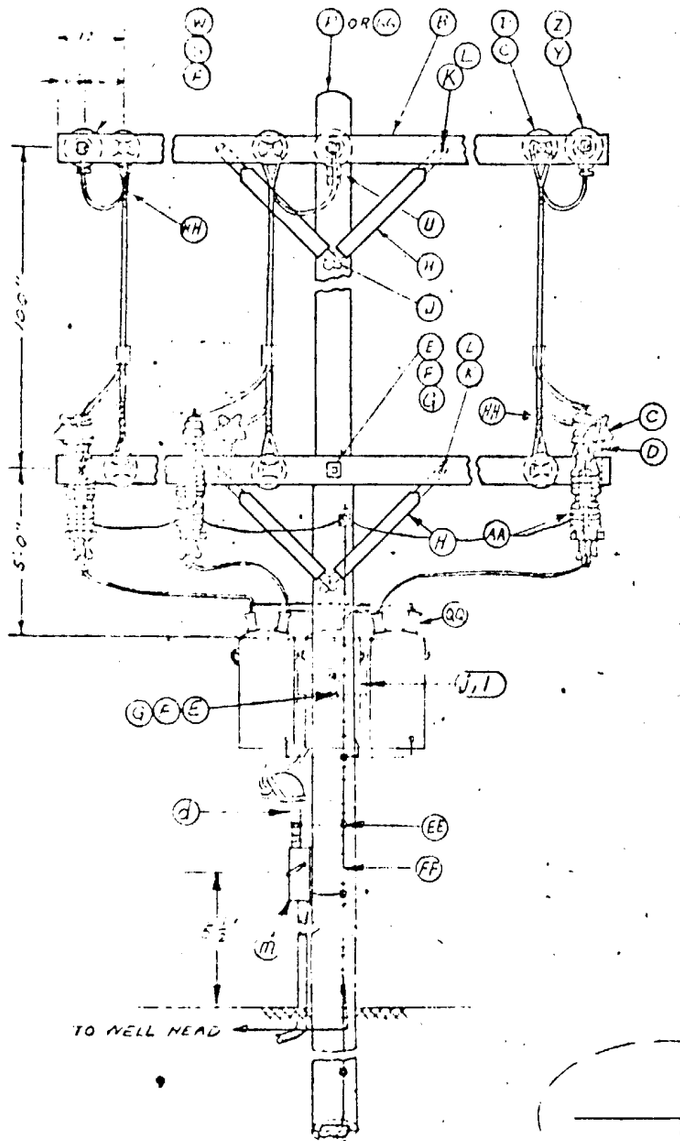


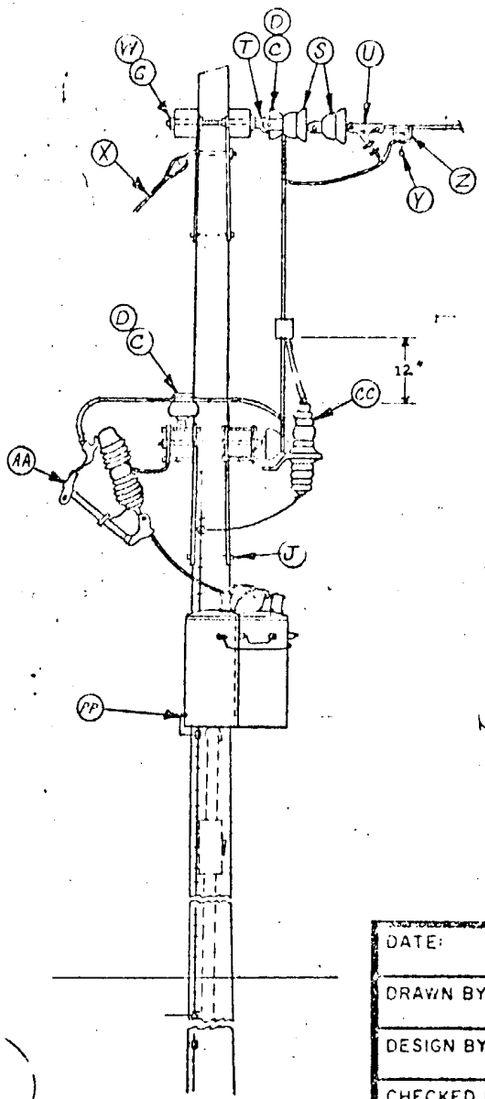
NOTE:
1. DO NOT INSTALL GROUND WIRE PAST NEUTRAL CONDUCTOR
2. THIS CONSTRUCTION STANDARD TO BE USED ON ALL LINES BUILT ON NATIONAL RESOURCE LANDS

MATERIALS

ITEM	DESCRIPTION	REQ'D.	ITEM	DESCRIPTION	REQ'D
1	POLE, 40'	1	17	NEUTRAL CONDUCTOR	—
2	CROSSARM, 3½" x 4½" x 8'	1	18	ARMOR ROD	1
3	BRACE, HOOD	2	19	POLE GROUND WIRE, #6 CU.	5#
4	STUD RACK	1			
5	RIDGE PIN, 15"	1			
6	SPOOL INSULATOR	1			
7	STEEL PIN, ⅝" x 5"	2			
8	LAG SCREW, ½" x 4"	1			
9	CARRAGE BOLT, ⅜" x 4½"	2			
10	MACHINE BOLT, ⅝" x 10"	2			
11	MACHINE BOLT, ⅝" x 14"	1			
12	WASHER, 2½" SQ.	5			
13	PHASE CONDUCTOR	—			
14	ARMOR ROD	3			
15	TIE WIRE, #6 AL.	1#			
16	PIN INSULATOR, 9 KV	3			

DATE: 7-15-77	TITLE: PRIMARY IN LINE POLE 12,500 VOLT ACSR
DRAWN BY: L. morrill	
DESIGN BY:	
CHECKED BY: SK	PRODUCTION DEPT. HOBBS DIVISION
APPROVED BY: SK	JOB: ELEC. SPECS.
SCALE: NONE	DRAWING NO.: ES-26





ITEM	QTY REQ'D	REF
A	4	
C	5	
D	2	
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,1	1	ES-1A, NOTE 2
m	1	
NP	3	
QQ	6	

NOTE:

1. CENTER PHASE ON BANK WILL HAVE EPOXY INSULATOR, KEARNEY # 323015-24 INS. (REF.- REFER TO DRWG. ES-28)

2. ALL WIRE FROM POINT "U" WILL BE INSULATED TYPE WIRE ON TRANSFORMER BANK.

DATE: 12-13-71	TITLE: SINGLE POLE SUB T.A. 1 PH. TRANS. CLUSTER MOUNT PRIM. DEAD-END - 12,500/4,80 V. ACSR
DRAWN BY: JRD	CONOCO
DESIGN BY: JRD	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	56 5 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" NF Locknut	3512			
I	1/4" x 1 1/4" x 28" flat Crossarm Brace	7128			
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" NF Locknut	3510			
M	Preformed Aluminum Alloy Armor Rods, size req'd				
N	tie wire #6 strong alum. alloy				
O	Epoxy Insulator (Extension Link)			KEARNEY #32102560	X
P	35' 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.	F2XX1015G			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			M^c GRAW-EDISON KNMC2	
FF	grounding specs. see dwg No. ES-11 & ES-1A, Note 3			BLACKBURN "H" SERIES	
GG	35' class 4 creosoted pine pole				
HH	Aluminum deadend Preforms for ACSR, size req'd				
JJ	30' class 6 creosoted pine pole				
FF	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			BURNDY 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			
QQ	Bird Guards (Insulating boots on transformer bushings)			WESTINGHOUSE - #5464490865	

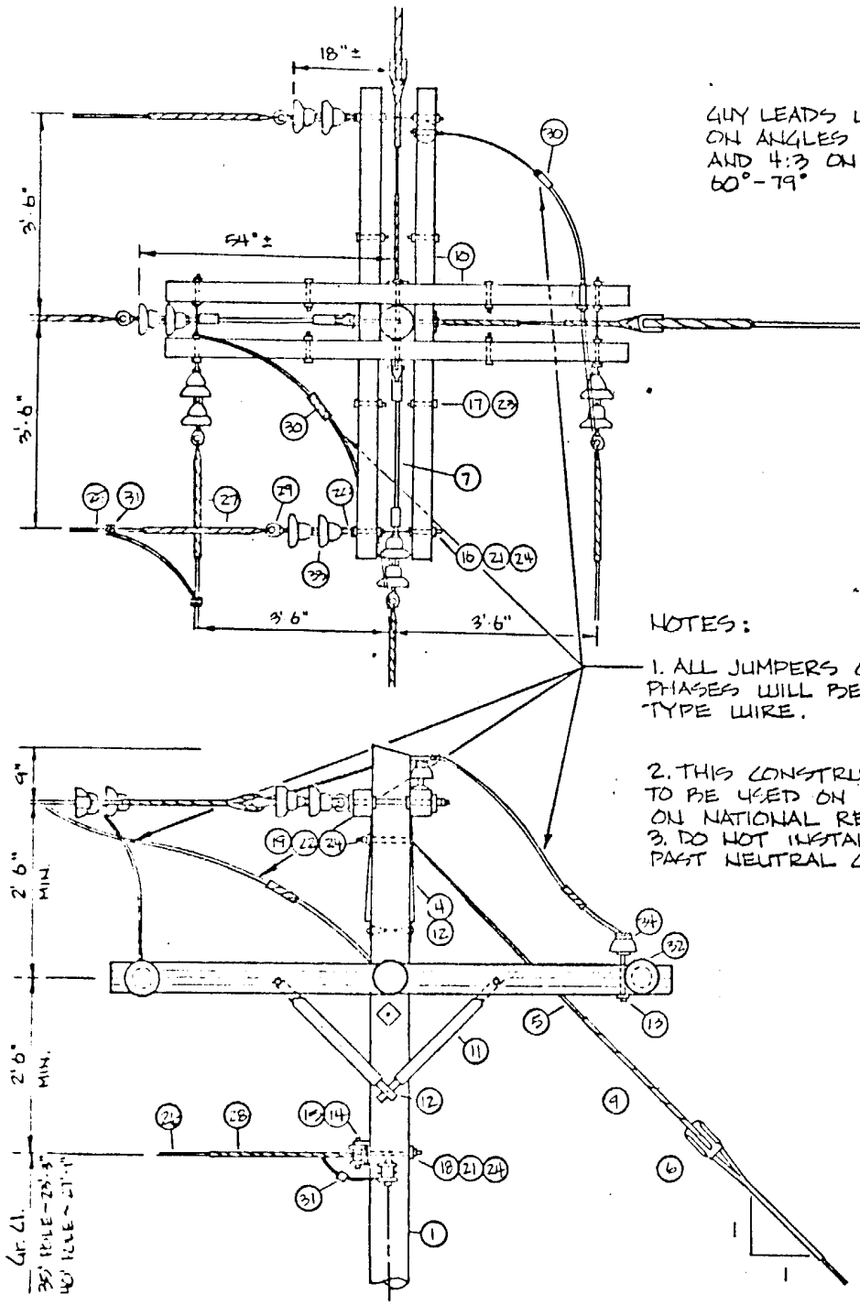
DATE: 12-27-71	TITLE: DESCRIPTION MATERIAL
DRAWN BY: E. WINTER	CONOCO
DESIGN BY:	PRODUCTION DEPT. HOBBS DIVISION
CHECKED BY:	JOB: ELEC SPECS
APPROVED BY:	DRAWING NO.: ES-1
SCALE: NONE	SHEET 2 OF 3

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 MF locknut on long end, 15 1/8" long (or length required.)	7828			
b	wet process porcelain secondary spool insulator, 3", brown glaze		J1101		
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	redium 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

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 MF locknut on long end, 15 1/8" long (or length required.)	7828			
b	wet process porcelain secondary spool insulator, 3", brown glaze		J1101		
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



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 PHASES WILL BE INSULATED TYPE WIRE.

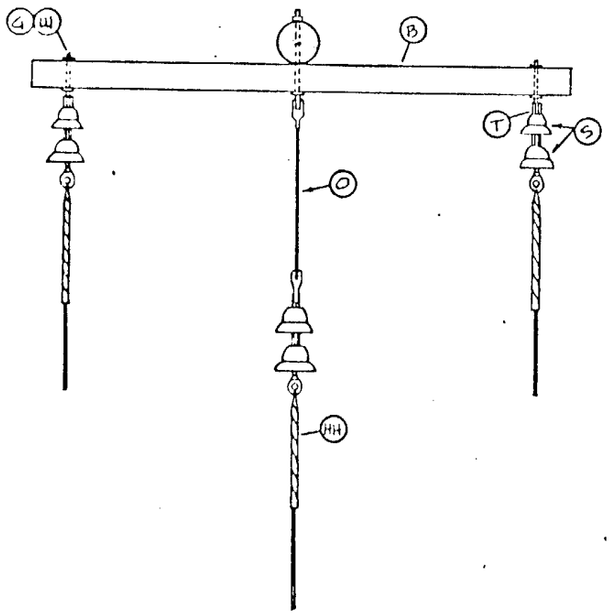
2. THIS CONSTRUCTION STANDARD TO BE USED ON ALL LINES BUILT ON NATIONAL RESOURCE LANDS.

3. DO NOT INSTALL GROUND WIRE PAST NEUTRAL CONDUCTOR.

MATERIALS

ITEM	DESCRIPTION	REQ'D
1	POLE _____ LENGTH, CLASS _____	1
2	ANCHOR, 8"	2
3	ANCHOR ROD, 5/8" x 7'	2
4	GUY ATTACHMENT, P133A	2
5	GUY CABLE, 3/8" U.G.	24*
6	GUY INSULATOR, EOG	2
7	EPOXY INSULATOR, KEARNEY # 323015-24	2
8	CLAMP, 3-BOLT	2
9	GUY GRIP, 3/8"	6
10	CROSS ARM, 8'	4
11	BRACE, 30" SPA.	8
12	LAG SCREW, 1/2"	6
13	STEEL, PIN 5/8" x 5"	2
14	RACK, 1-POINT	2
15	SPOOL INSULATOR, 3"	2
16	BOLT, D.A., 5/8" x 18"	6
17	BOLT, MACH., 3/8" x 4 1/2"	8
18	BOLT, MACH., 5/8" x 10"	2
19	BOLT, MACH., 5/8" x 12"	2
20	EYE NUT, 5/8"	6
21	WASHER, 2 1/4" FLAT	22
22	WASHER, 3" CURVED	2
23	LOCK NUT, 3/8"	8
24	LOCK NUT, 5/8"	10
25	PHASE CONDUCTOR NO. _____	—
26	NEUTRAL CONDUCTOR NO. _____	—
27	PREF DE, NO. _____	6
28	PREF. DE, NO. _____	2
29	CLEVIS, THIMBLE	6
30	JUMPER SLEEVE, NO. _____	2
31	CONNECTOR, S.O. SML. AL.	2
32	INSULATOR, 9KV PIN	2
33	INSULATOR, 6" DISC	12
34	TIE WIRE, NO. 6 AL.	1/2#

DATE: 7-15-77	TITLE: PRIMARY ANGLE STRUCTURE 60°-90° 12,500 VOLT ASGR
DRAWN BY: I. morrill	conoco
DESIGN BY:	PRODUCTION DEPT. HOBBS DIVISION
CHECKED BY: SK.	JOB: ELEC. SPECS.
APPROVED BY: SK	DRAWING NO.: ES-27
SCALE: NONE	



ITEM	QTY. REQ'D
B	1
G	3
HH	3
O	1
S	6
T	2
W	3

NOTE:
FOR MATERIALS, SEE DRWGS. ES-1

DATE: 7-15-77	TITLE: EPOXY INSULATOR (EXTENSION LINK)
DRAWN BY: I. norrill	conoco
DESIGN BY:	PRODUCTION DEPT. HOBBS DIVISION
CHECKED BY: SK	JOB: ELEC. SPECS.
APPROVED BY: SK	DRAWING NO.: ES-28
SCALE: NONE	