

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 Co. Conoco Inc.

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

1980 / N 1980 / W

At proposed prod. zone

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)

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.)

3551

16. NO. OF ACRES IN LEASE

19. PROPOSED DEPTH

67.35'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

Rotary

22. APPROX. DATE WORK WILL START*

AUG. 15, 1979

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"	36#	1450'	516 SK
8 7/8"	7"	26#	6735'	1500 SK

IT IS PROPOSED TO DRILL A STRAIGHT HOLE TO A TD OF
AND complete as a Tubbs and Blinberry dual oil well
SEE Attachment 10 point well plan.
SEE attached for 13 point Surface Use Plan.

RECEIVED

JUL 2 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 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

W. A. Butterfield

TITLE

Administrative Supervisor

DATE

6-29-79

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

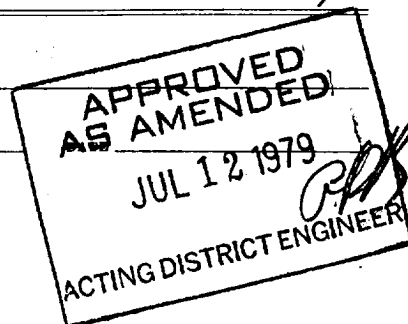
LISGS 4

NIMFU 4

FILE

JFB

*See Instructions On Reverse Side



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JUL 17 1979
O.C.D. HOBBS, OFFICE

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JUL 17 1979
O.C.D. HOBBS, OFFICE

ATTACHMENT TO FORM 0-331 C
APPLICATION FOR PERMIT TO DRILL

Continental Oil Company
Burger B-20 No. 1

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:
0-1450' 9 5/8", 36#, K-55, ST&C
0-6735' 7", 26#, K-55, LT&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'-1450' 8.5-9.0 ppg spud mud
1450'-6150' 9.0-10.0 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 CNL FDC PDC logs at selected intervals.
9. No abnormal pressures or temperatures are expected to be encountered in this well.
10. The anticipated starting date is Aug. 15, 1979 with a duration of approximately 18 days.

PEB:jl1b

WELL NAME: Burger B-20 No. 1
1980 FNL, 1980 FWL,
LOCATION: Sec. 20, T-20S, R-38E

COUNTY: Lea

STATE: New Mexico

[illegible]

WELL NAME Burger B-20 #1 FIELD NMFD DATE 6-20-79
 AFE NO. ELEV. GRD KB PROPOSED TD 6735'
 LOCATION (SURF.) 1980' FNL & 1980' FWL OF SEC 20, T 20S R 38E
 COUNTY Lea STATE New Mexico SPACING 40 acre

LOCATION (BOTTOM HOLE)

GEOLOGICAL ESTIMATES

<u>ZONE</u>	<u>TOP</u>	<u>THICKNESS</u>	<u>CONTENT</u>	<u>ZONE</u>	<u>TOP</u>	<u>THICKNESS</u>	<u>CON</u>
Water SS	70'		San Andres		4070'		
Rustler Anhy.	1400'		Glorieta SS		5355'		
Salado Salt	1490'		Blindbry Mkr.		5856' (-2295)		
Base Salt	2550'		Tubb SS.		6351' (-2790)		
Yates SS	2690'		Drinkard dol.		6655'		
Seven Rivers	2930'		TD		6735'		
Queen SS	3530'						

<u>CORING NO.</u>	<u>TYPE</u>	<u>HORIZON</u>	<u>INTERVAL FROM-TO</u>	<u>FOOTAGE</u>	<u>REMARKS</u>
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NONE

DRILL STEM TESTSWATER SHUT OFF TESTS

<u>NUMBER</u>	<u>HORIZON</u>	<u>NUMBER</u>	<u>HORIZON</u>	<u>NUMBER</u>	<u>HORIZON</u>	<u>NUMBER</u>	<u>HORIZON</u>
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NONE

WELL SURVEYS (List types by code numbers as follows: Directional and/or Deviation (1) Deflection (2) Caliper (3) Temperature (4) Electrical (5) Radio-active (6) Geolograph (7) Photoclinometer (8) Mudlogging (9) Other (10) and name of that type.)

<u>DEPTH POINTS</u>	<u>TYPE</u>	<u>HOLE SIZE</u>	<u>REMARKS</u>
0 - TD	Geolograph Deflection		
2500' - TD	GR-CNL-FDC GR-DLL	8 3/4"	2" & 5" (Pull caliper to surface casing shoe)
4000' - TD	MSFL	8 3/4"	
5000' - TD	PDC	Inside Casing	Depth control

FUEL AND WATER (SOURCE)

PROPOSED WELL PLAN

WELL NAME	Burger B-20 #1	FIELD	NMFU
<u>ATTACHMENT</u>	<u>NO.</u>	<u>REQUIRED</u>	<u>NOT REQUIRED</u>
CASING CENTRALIZERS, SCRATCHERS	_____	X	_____
CEMENTING	_____	X	_____
MUD PROGRAM	_____	X	_____
WELL PLAN OUTLINE	_____	X	_____
PORE PRESSURE - FRAC GRADIENT	_____	_____	_____
PROJECTED PROGRESS	_____	_____	_____
CROSS SECTION OR WELL COURSE	_____	_____	_____
HYDRAULICS PROGRAM	_____	_____	_____
BIT PROGRAM	_____	_____	_____
VENDER USAGE LIST	_____	_____	_____

DRILLING AND COMPLETION PROCEDURE

- (1) 0-1450' Drill 12 1/4" hole. Set and cement 9 5/8" surface casing. WOC 18 hours. Pressure test to 1000 psi for 30 minutes. Drill out.
- (2) 1450'-6735' Drill 8 3/4" hole. Pressure test shoe to 300#. Drill to TD (6735'). Run OH logs. Set and cement 7" production casing. WOC 18 hours. Pressure test to 1000 psi for 30 minutes.
- (3) Detailed completion procedure to be determined from OH log analysis. Anticipate acidizing & sandfracing Elinebry & Tubb Zone.

LIST TYPE OF STRING BY CODE LETTERS, i.e. CONDUCTOR (C); SURFACE (S); INTERMEDIATE (I); PRODUCTION (P); LINER (L); PERFORATIONS (PP)

TYPE OF STRINGS & INTERVAL (FT)

FROM-TO	OD	ID	WT PER FT	GRADE	THREAD	AMT	WT. IN AIR, WT. IN MUD 1000 LBS 1000 LBS	REMARKS
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(S) 0-1450'	9 5/8"	8.765	36#	K-55	ST & C	1450'	52.2	
(P) 0-6735'	7"	6.151	26#	K-55	LT & C	6735'	175.1	Sand Blast 800' of casing across Blinbry & Tubb zone

DV Tool @ +4000'

TYPE OF STRING	CENTRALIZERS		SCRATCHER NO. INTERVAL	OTHER ACCESSORY EQUIPMENT (SUCH AS DEGRASSERS, MUD, CENTRIFUGE FLOAT COLLARS, ETC. - SPECIFY)		REMARKS
	NO. FROM-TO	INTERVAL		NO. FROM-TO	INTERVAL	

(S) Surface	(4)	2 ea. on bottom two joints			Guide shoe and float collar	
	(9)	1 every 4 jts. to surface.				
(P) Production	(4)	2 ea. on bottom two joints			Float shoe, float collar	
	(8)	1 every 3 joints to 5700'				

MUD PROGRAM

<u>DEPTH INTERVAL FROM-TO</u>	<u>WEIGHT LBS/CAL</u>	<u>TYPE</u>	<u>OIL %</u>	<u>PH</u>	<u>WATER LOSS (cc)</u>	<u>VIS. (sec.)</u>	<u>YIELD POINT</u>	<u>THINNING AGENTS</u>	<u>WATER LOSS AGENTS</u>
0'-1450'	8.5- 9.0	spud	- -	9.0+	- -	- -	- -	- -	- -
1450'-6150'	9.0-10.0	Salt Water- Gel	- -	9.0-10.0	10-12+	35-40	- -	- -	As required

REMARKS

1. Below 1450', drill w/saturated brine to keep enlargement to a minimum.
2. Add gelling agent as required to carry cuttings.
3. Pressure surges should be kept to a minimum below 1450'.
4. Condition mud to reduce water loss 50' above Blinebry marker.
5. Condition mud to reduce viscosity to 30-32 prior to cementing.

CEMENT

TYPE OF STRING INTERVAL (FT) FROM-TO TYPE MIX	GEL%	SALT%	CaCl ₂	SLURRY WEIGHT LB./GAL	SLURRY YIELD OF/SKX	TOTAL AMT. REQUIRED SKX/CF	FILL UP	BHT	SIZE	REMARKS
(S) 0-1450' Class 'C' 4% (lead)	--	--	2%	13.1	1.88	420/790	Circ.	85°F	12 1/4"	100% excess. Add 1/4#/sx. flocele if lost circulation occurs.
(P) 0-6735' Class 'C' -- (tail-in)	--	--	2%	14.8	1.32	96/121	--	--	--	
(1st Stage)										
Class 'C' 4% (lead)	3#/sx.	--	--	13.1	1.88	256/481	To DV Tool @ ±4000'	95°F	8 3/4"	100% excess. Add 1/4#/sx. flocele if lost circulation occurs.
Class 'C' -- (tail-in)	3#/sx.	--	--	14.8	1.32	258/341	--	--	--	
(2nd Stage)										
Lite-Wate -- (lead)	18%	--	--	13.2	1.93	930/1786	Circ.	95°F	8 3/4"	200% excess. Add 1/4#/sx. flocele if lost circulation occurs.
Class 'C' -- (tail-in)	3#/sx.	--	--	14.8	1.32	69/91	--	--	--	

REMARKS

- 1) Lab test slurry for production casing.
- 2) Condition mud to have low plastic viscosity and yield strength.
- 3) Precéde cement w/500 gals. mud flush.
- 4) Utilize top and bottom plugs. Pump top plug down w/TFW.
- 5) Reciprocate casing while cementing.
- 6) Recalculate cement volumes from OH caliper logs.
- 7) Reduce mud viscosity prior to cementing.

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

Owner CONTINENTAL OIL COMPANY			Lease BURGER B-20		Well No. 1
Range F	Section 20	Township 20 SOUTH	Range 38 EAST	County LEA	

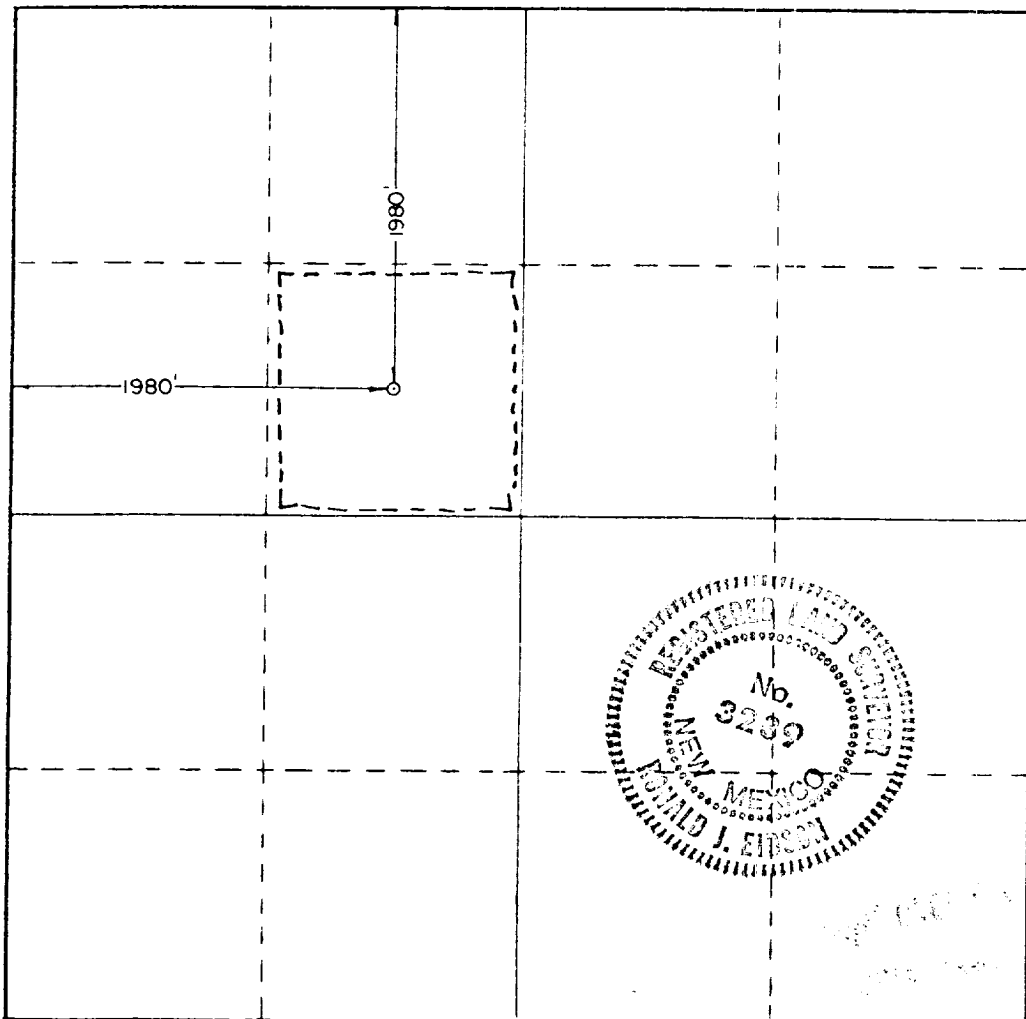
Well Location of Well:						
1980	feet from the	NORTH	line and	1980	feet from the	WEST
Ground Level Elev. 3551.3	Producing Formation Blinberry / Tubb		Pool DESIGNATED		Dedicated Acreage: 40 Acres	
				UNDESIGNATED		
				Blinberry Oil & Gas / Warren Tubb Oil		

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. Dutterfield
Position
Administrative Supervisor
Company
Continental Oil Co.

Date
6-29-79

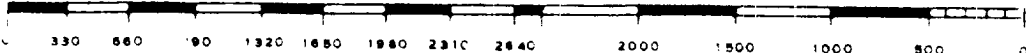
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
JUNE 20TH, 1979

Registered Professional Engineer
and/or Land Surveyor

Ronald J. Eidson

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



SURFACE USE PLAN
Continental Oil Company
Burger B-20 No. 1
Sec. 20 T20S R38E
Lea County, New Mexico

The plan is to accompany "Applicaition 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 all contractors and sub-contractors will be aware of all items of this plan.

1. EXISTING ROADS

- A. The proposed well site is 1980' FNL and 1980' FWL of Section 20 T20S, R38E, Lea County, New Mexico.
- B. Exhibit A is a portion of a New Mexico road map showing existing roads. Direcitons to the location are as follows: Travel south on NM 18 approximately 10 miles out of Hobbs and turn west through Conoco's red, white, and blue cattleguards. Refer to Exhibit "C".
- 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 road required will be 16' wide and 1320' long. This new road is labeled and coded on Exhibits B and C.
- 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: No major cuts, fills or culverts are required.
- E. Surfacing Material: Six inches of caliche, bladed, watered and compacted.
- F. Gates, Cattleguards and Fences: None required
- G. The porposed road is staked.

3. LOCATION OF EXISTING WELLS

- A. See Exhibit C.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

- A. Tank Batteries: A tank battery will be constructed at the drill site.
- B. Producing Facilities: If required, two tanks and separating equipment will be used.
- C. Oil Gathering Lines: Flowlines will lay on the surface to the battery.
- D. Other Lines: Electrical power lines will be constructed on 330' spans as shown on Exhibit E.
- E. Rehabilitation: Pits will be backfilled and leveled as soon as practical to original condition. Commencement of rehabilitation operators 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

- A. Water will be hauled from Eunice, New Mexico.

6. SOURCE OF CONSTRUCTION MATERIALS

- A. Caliche will be hauled from an existing pit in the SE/SE, Sec. 15, T20S, R38E.

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 required.

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: sand
- C. Vegetation: mesquite, shinners
- D. Surface Use: grazing
- E. Ponds and Streams: none
- F. Water Wells: none
- G. Residences and Buildings: none
- H. Arroyos, Canyons, Etc.: none
- 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:

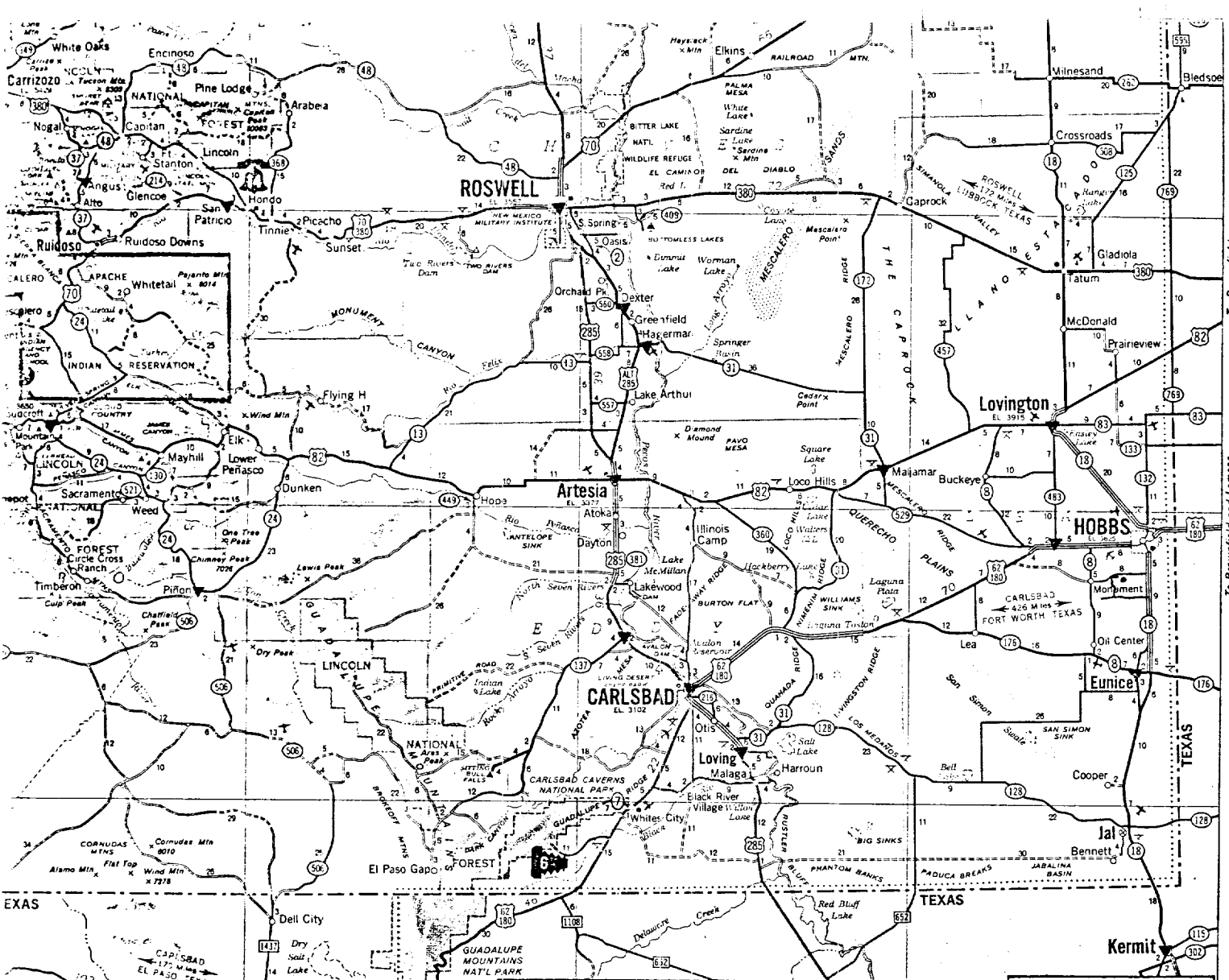
Production and Drilling
W. D. Cates or H. C. Pokrandt
1001 North Turner
Hobbs, New Mexico 88240
Phone: 393-4141

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.

6/27/79
Date

H. C. Pokrandt
Production Superintendent



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:



TOURAIDE 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 86 STATE 4 TEXAS FARM OR RANCH 308

ROAD CLASSIFICATIONS

CONTROLLED ACCESS DIVIDED HIGHWAYS Interstate interchange numbers are mileposts.

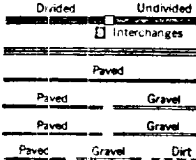
OTHER DIVIDED HIGHWAYS

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 3/4

ONE MILE EQUALS 1.6 KILOMETERS

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

LONG DISTANCE MILEAGES SHOWN IN RED

MILEAGE BETWEEN DOTS 25

ONE KILOMETER EQUALS 6 MILES

SCHEDULED AIRLINE STOPS

- MILITARY AIRPORTS
- OTHER AIRPORTS
- TOURIST INFORMATION
- SKI AREAS
- SELECTED REST AREAS
- BOAT RAMPS
- TIME ZONE BOUNDARY

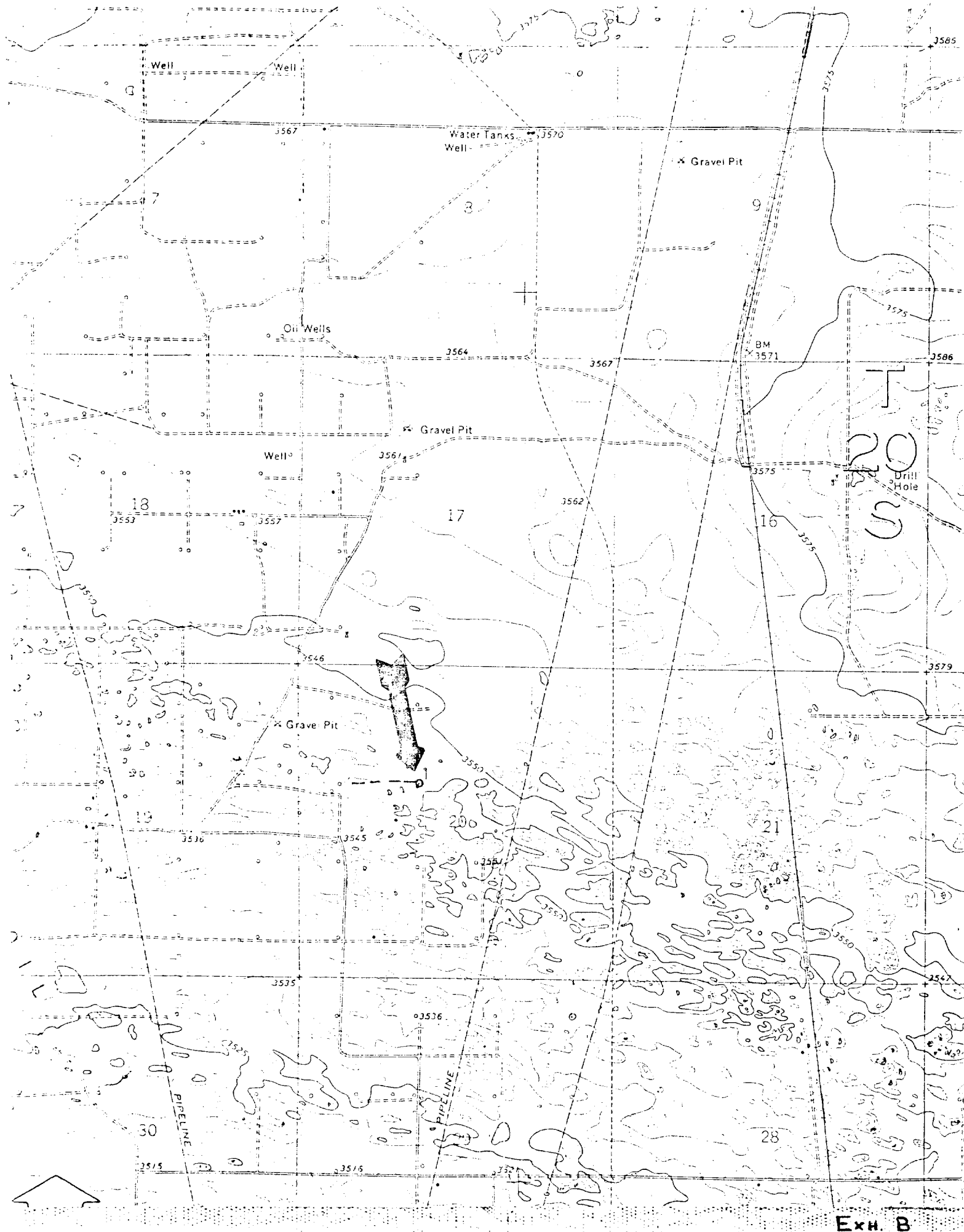
POPULATION SYMBOLS

- State Capital
- 2,500 to 5,000
- Under 1,000
- 5,000 to 10,000
- 1,000 to 2,500
- 10,000 to 25,000
- 25,000 to 50,000
- 50,000 to 100,000
- 100,000 and over

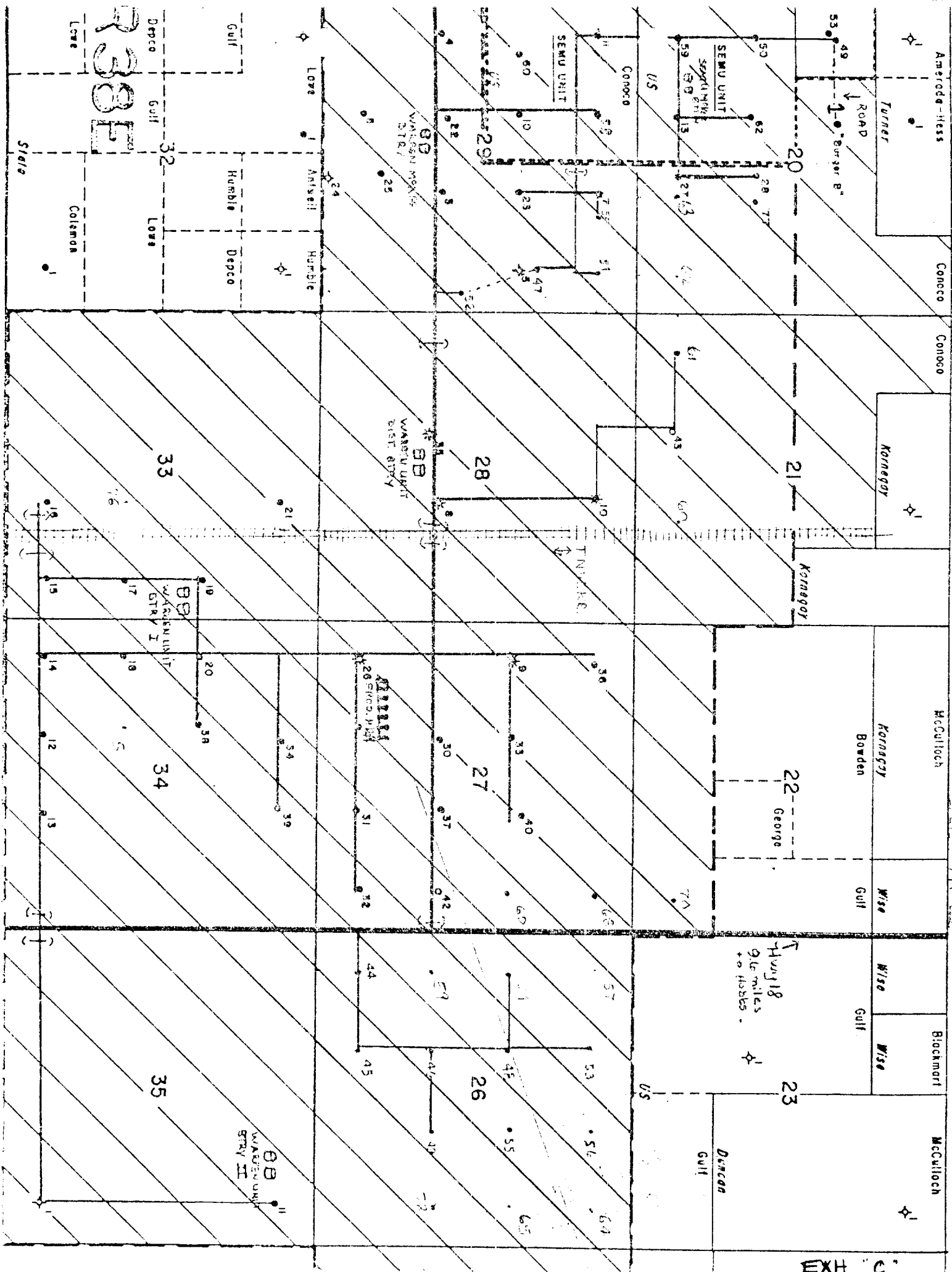
G & THE H. M. GOSHA COMPANY BOX 8227 SAN JOSE, CALIF. 95105 A SUBSIDIARY OF THE TIMES WARRIOR COMPANY

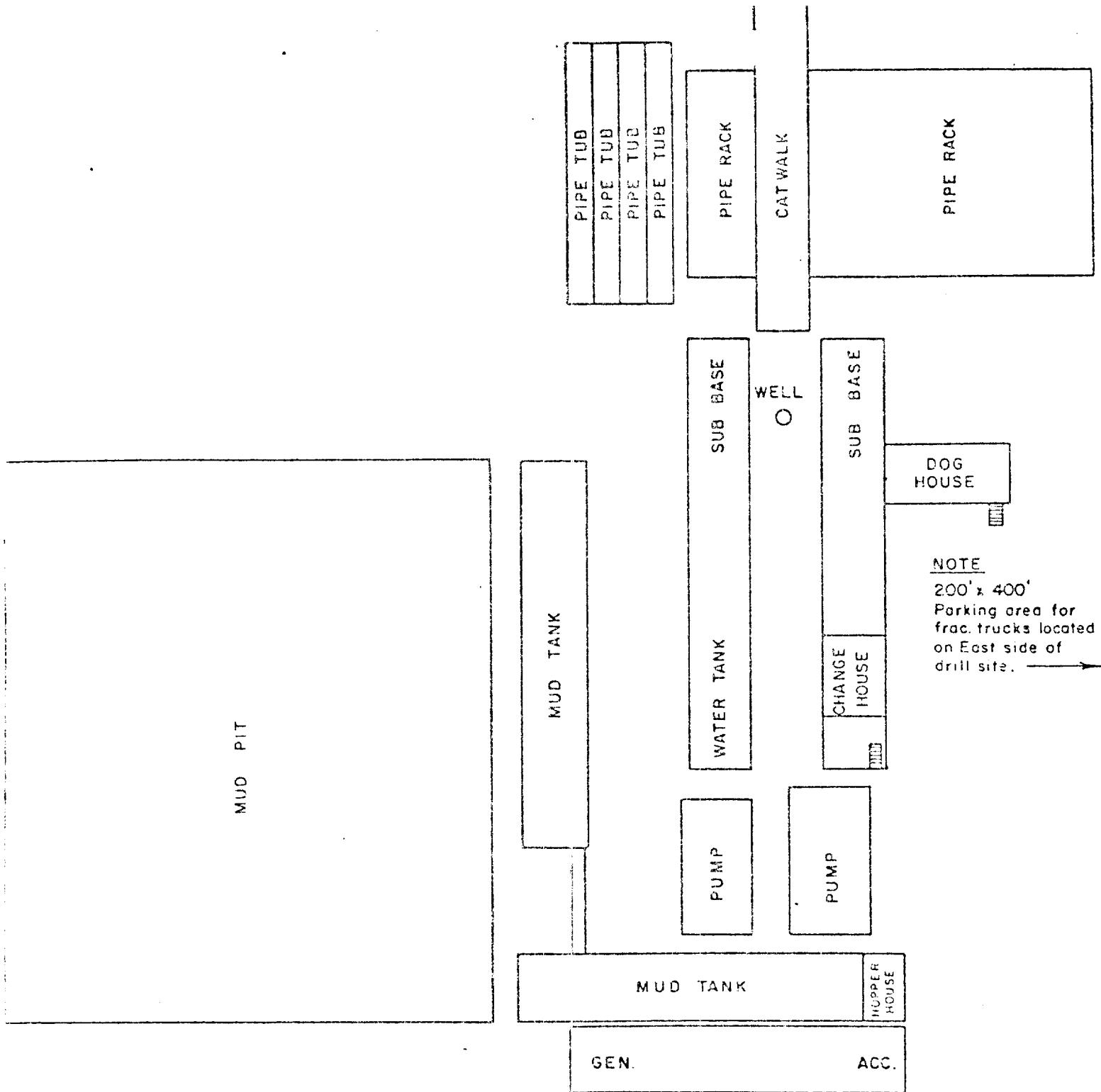
1977 Edition

Lithographed in U.S.A.



Exh. B





APPROX. RIG SITE DIMENSIONS
160' x 200'

CONTINENTAL OIL COMPANY
PRODUCTION DEPARTMENT
Casper, Wyoming



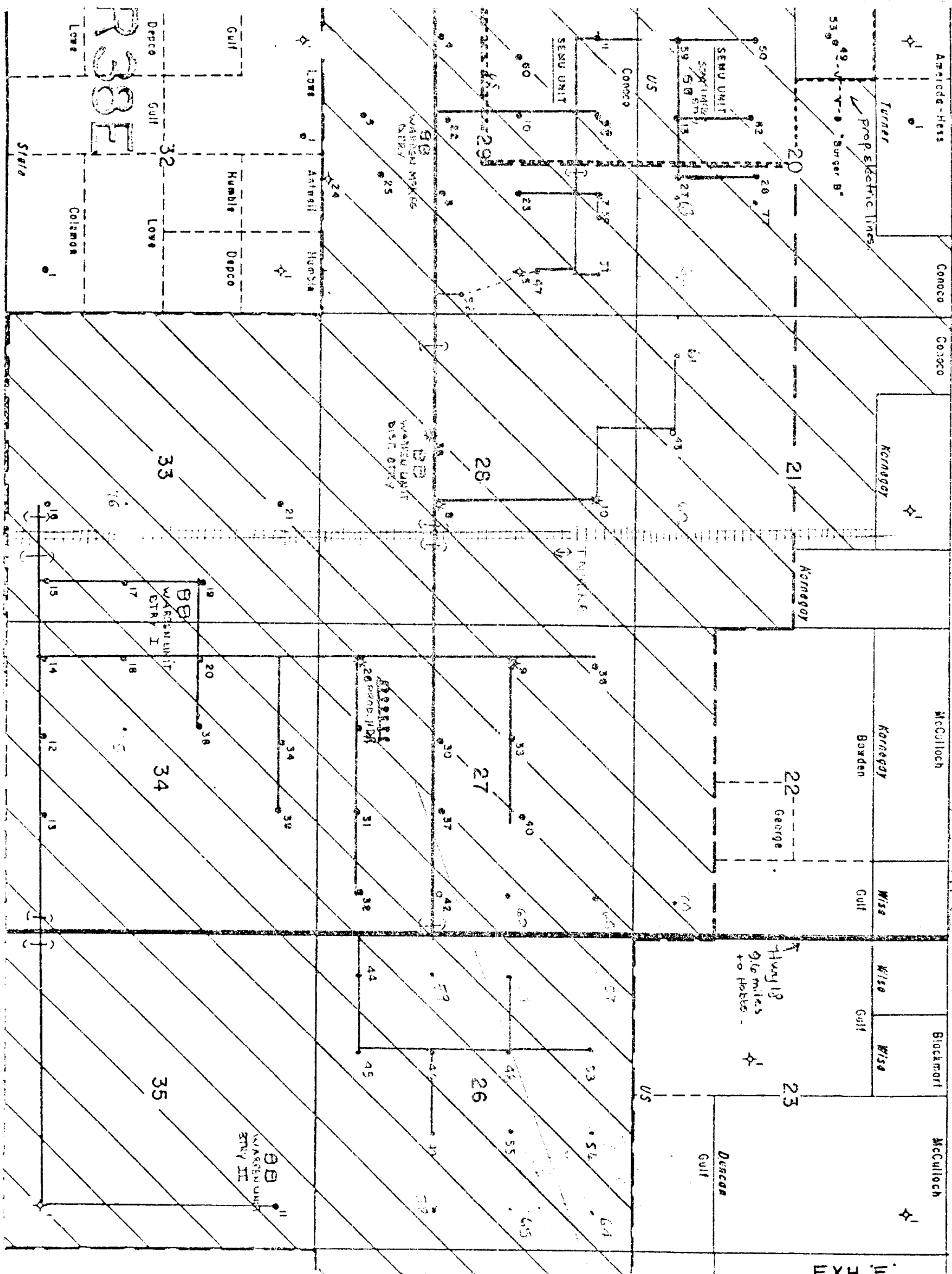
• RIG LAYOUT

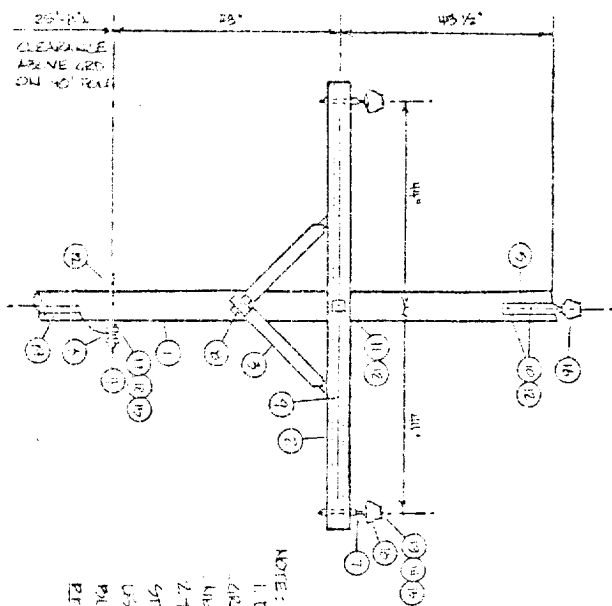
Engineer: ~~John R. Brown~~

Draftsman: B.S.

Date: 1-4-73

EYU "N"



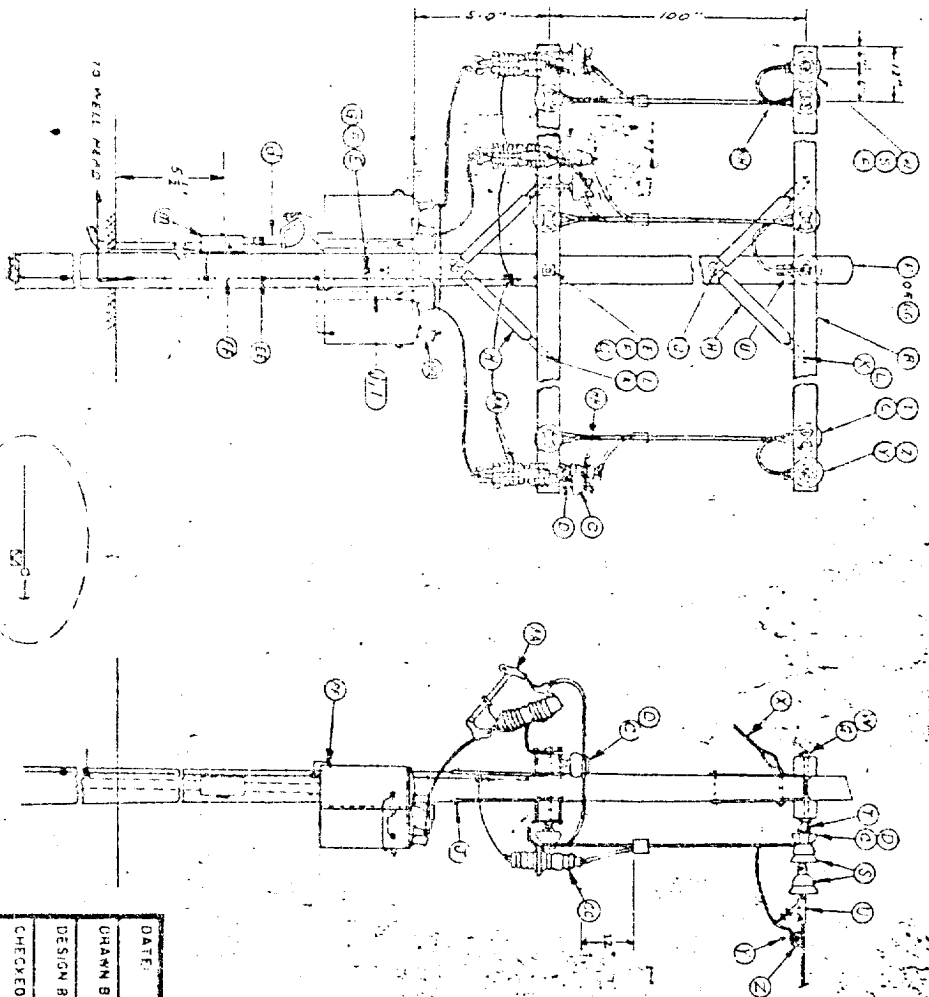


NOTE:
1. TO NOT INSTALL
GROUND WIRE FIRST
NATIONAL CONSTRUCTION
STANDARD TO BE
USED ON ALL LINES
BUILT ON NATIONAL
STANDARD LINES

MATERIALS			
ITEM	DESCRIPTION	QTY	REMARKS
1	POLE, 101	1	
2	DISCORD, 3/4" x 1/2" x 8	1	
3	BRACE, WOOD	1	
4	GRIP, WOOD	2	
5	BRIDGE PIN, 1/2"	1	
6	STEEL INSULATOR	1	
7	STEEL PIN, 1/2" x 5"	2	
8	WAX, STEEL, 1/2" x 1/2"	1	
9	CAPACITOR, 1/2" x 1/2"	2	
10	WAX, STEEL, 1/2" x 1/2"	2	
11	WAX, STEEL, 1/2" x 1/2"	2	
12	WAX, STEEL, 1/2" x 1/2"	2	
13	WAX, STEEL, 1/2" x 1/2"	2	
14	WAX, STEEL, 1/2" x 1/2"	2	
15	WAX, STEEL, 1/2" x 1/2"	2	
16	WAX, STEEL, 1/2" x 1/2"	2	

DATE: 7-10-71	TITLE: 12,500 VOLT AC LINE POLE
DRAWN BY: J. T. TAYLOR III	12,500 VOLT AC LINE
DESIGN BY:	
CHECKED BY: SH	PRODUCTION DEPT
APPROVED BY: SH	HOBBS DIVISION
SCALE: 1/4" = 1'-0"	DRAWING NO: E-2-26

CONOCO



ITEM	QTY	REF
A	1	
B	1	
C	1	
D	1	
E	1	
F	1	
G	1	
H	1	
I	1	
J	1	
K	1	
L	1	
M	1	
N	1	
O	1	
P	1	
Q	1	
R	1	
S	1	
T	1	
U	1	
V	1	
W	1	
X	1	
Y	1	
Z	1	
AA	1	
AB	1	
AC	1	
AD	1	
AE	1	
AF	1	
AG	1	
AH	1	
AI	1	
AJ	1	
AK	1	
AL	1	
AM	1	
AN	1	
AO	1	
AP	1	
AQ	1	
AR	1	
AS	1	
AT	1	
AU	1	
AV	1	
AW	1	
AX	1	
AY	1	
AZ	1	
BA	1	
BB	1	
BC	1	
BD	1	
BE	1	
BF	1	
BG	1	
BH	1	
BI	1	
BJ	1	
BK	1	
BL	1	
BM	1	
BN	1	
BO	1	
BP	1	
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ITEM	DESCRIPTION	A. B. CLANCE NO.	JOSLYN NO.	OTHER REF. NO.	NO. SUN.
A	35' class 6 creosoted pine pole				
B	3 1/2" x 4 1/2" x 8' treated creosote				
C	high density wet process porcelain pin insulator		453		
D	5/8" x 5" forged steel pin w/eq. washer, nut, & locknut	814			
E	5/8" x 1 1/2" machine bolt w/ nut (or length req'd)	812			
F	2 1/4" x 2 1/4" x 3/16" x 11/16" hole st. washer	451			
G	3/8" x 1 1/2" x 28" flat creosote stake	774			
H	1 1/2" x 4 1/2" x 28" flat creosote stake	504224			
I	1 1/2" x 4 1/2" x 28" flat creosote stake	664224			
J	3/8" x 4 1/2" x 28" flat creosote stake	3570			
K	3/8" x 4 1/2" x 28" flat creosote stake				
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 fence on connector				
Q	for ACER, Aluminum, or copper-alloy req'd				
R	6' Suspension Insulator	45302			
S	5/8" Standard oval eye nut	6502			
T	Primary Dead End Clamp		4520		
U	5/8" x 1 1/2" (or length req'd) Double Acting Bolt				
V	w/eq. nut				
W	Buying detail - see spec. No. 85-10 for specs.				
X	Hot Line Clamp				
Y	Connect on bracket, size required	5152222			
Z					

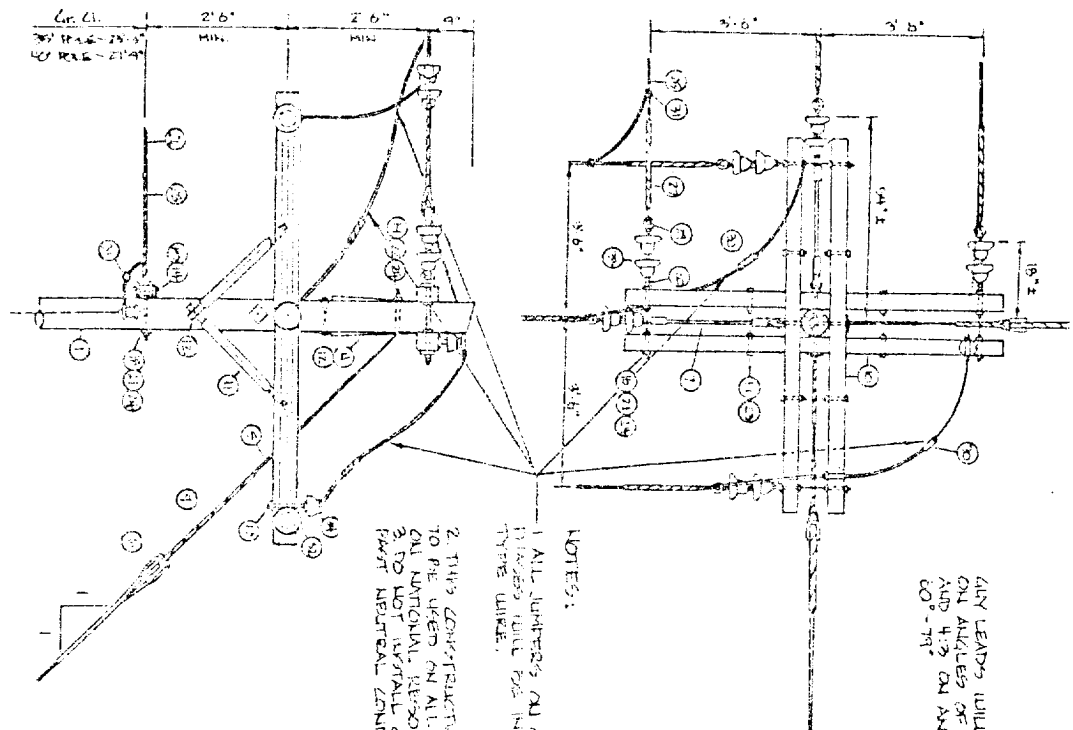
DATE: 12-27-71		TITLE: DESCRIPTION MATERIALS	
DRAWN BY: E. WINTER		CONOCO PRODUCTION DEPT HOBS DIVISION	
DESIGN BY:			
CHECKED BY:			
APPROVED BY:		JOB: ELEC SPECS	
SCALE: NONE		SHEET 1 OF 3	

ITEM	DESCRIPTION	A. B. CHANGE NO.	JOSLYN NO.	OTHER M.A.S. NO.	NO EQUIP.
AA	Primary circuit - 100 amp, 14 KV, 16000 amp int. cap.	EXX10/56			X
BB	General purpose high bolt clasp	UG 51086P			
CC	Lighting arrester, 10 KV				
DD	Single phase oil switch, 14.4 KV				
EE	Single bolt connector, size req'd				
FF	grounding spec. see dog No. ES-11 & ES-14, Note 1				
GG	351 class & connected size req'd				
HH	Aluminum bonded Preferron for ACSR, size req'd				
II	30' class 6 connected size req'd				
JJ	OVERHEAD GROUND, 24 ACSR - 14 Req'd - Ref. Dog ES-11.				
KK	ES-14 - Note 3				
LL	Ground connector, motor				X
MM	600 V, secondary lightning arrester single phase				
NN	Greenfield type PF liquid-tight flexible steel				
OO	conduct, size req'd, w/ necessary liquid-tight				
PP	conductor.				
QQ	req'd size 13 fitting & cover & gasket				
RR	conductor, size req'd, w/ necessary liquid-tight				
SS	conductor, size req'd, w/ necessary liquid-tight				
TT	conductor, size req'd, w/ necessary liquid-tight				
UU	conductor, size req'd, w/ necessary liquid-tight				
VV	conductor, size req'd, w/ necessary liquid-tight				
WW	conductor, size req'd, w/ necessary liquid-tight				
XX	conductor, size req'd, w/ necessary liquid-tight				
YY	conductor, size req'd, w/ necessary liquid-tight				
ZZ	conductor, size req'd, w/ necessary liquid-tight				

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

ITEM	DESCRIPTION	A. B. CHANCE NO.	JOSELYN NO.	OTHER PERS. NO.	NO. SUB.
a	double upper bolt w/eq. nut, round washer, and collar key on short end, eq. nut and HP locknut on long end, 15 1/8" long (for length required.)	74228			
b	wet process porcelain secondary spool insulator, 3 1/2" brown glass		W/C1		
d	required size conduit w/ servicehead(s) & req'd size & rated insulated conductors. Ref. DWG ES-18 Note: provide clamp and ground conduit parallel across clamp, size req'd			BURBURY STREET, VC	
e	parallel across clamp, size req'd				
f	secondary insulator clevis, for 4" insulator	4510			
g	3/8" steel eye nut	5512			
h	3/8" x 12" (for length req'd) straight thimble eye bolt w/eq. nut			ALL VALVE 6413-6	X
j	transformer cluster mount bracket (small)			NUMA FROM 5413-6	X
l	transformer cluster mount bracket (large)				X
m	req'd size calculator disconnect & fuses, 3-phase, 600 V. Ref. DWG NO. ES-19				
n	1/2" cross steel anchor (for size req'd)	X-14			
o	8-way expansion anchor (size req'd)	80155			
c	4w brown glass wet process porcelain secondary spool insulator		J0101		
u	5/8" x 7" thimble eye anchor rod w/nut (use 2x4ways if req'd - Ref. DWG NO. 5397)	5317 (WUT 250049)			
aa	3/8" high strength guy strand (19,800 lb.)				
bb	preferred guy strap for 3/8" guy strand	5210			
dd	3/4" x 10" double thimble eye bolt w/nut	6513 1/2"			X
ee	3/4" x 10" x 11/16" double eye nut, washer				
ff	6" - guy clamp w/3-1/2" bolts				
gg	medium size strain insulator	6459			
hh	medium size sleeve for 3/8" guy strand	7857			X
ii	3/16" x 2-1/2" x 7" lift plate				
nn	hole bottom ground plate (day use butt-wrapp if desired)				
oo	Ground Foundation (Ref. DWG. ES-12)				
tt	wet process porcelain secondary spool insulator.				
cc	3" - white plate				
cc	wet process porcelain secondary spool insulator.				
cc	4" - white plate				

DATE: 12-27-71		TITLE: DISCRESSION MATERIALS	
DRAWN BY: E. WINTER		CONOCO HOBBES DIVISION DRAWING NO. ES-17 SHEET 5 OF 5	
DESIGN BY:			
CHECKED BY:			
APPROVED BY:			
SCALE: NONE		JOB: ELIC. SWELL	



ANY LEADS WILL BE 1:1 ON ANGLES OF 70°-40° AND 4:3 ON ANGLES OF 60°-70°

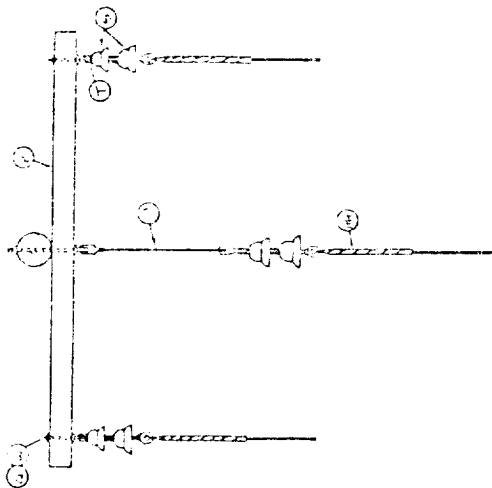
NOTES:
1. ALL NUMBERS ON CONDUCTOR SIZES WILL BE INDICATED TYPE WIRE.

2. THIS CONSTRUCTION STANDARD TO BE USED ON ALL LINES BUILT ON NATIONAL, REVERSIBLE, LAND, 3RD LOT INSTALL GROUND WIRE FIRST NEUTRAL CONDUCTOR.

ITEM		MATERIALS	
ITEM	DESCRIPTION	QUANTITY	REMARKS
1	ANCHOR ROD 5/8" x 7'	1	
2	ANCHOR ROD 5/8" x 7'	2	
3	ANCHOR ROD 5/8" x 7'	2	
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20	ANCHOR ROD 5/8" x 7'	2	
21	ANCHOR ROD 5/8" x 7'	2	
22	ANCHOR ROD 5/8" x 7'	2	
23	ANCHOR ROD 5/8" x 7'	2	
24	ANCHOR ROD 5/8" x 7'	2	

DATE: 7-10-77	TITLE: PRIMARY ANGLE STRUCTURE
DRAWN BY: J. F. F. F.	60°-90° 1200 VOLT ACB
DESIGN BY:	
CHECKED BY: SP	PRODUCTION DEPT.
APPROVED BY: SP	CONOCO
SCALE: 1/2" = 1'	MOBBS DIVISION
	DRAWING NO. ES-21

ITEM	QTY
1	1
2	2
3	2
4	1
5	2
6	3



NOTE:
FOR MATERIALS, SEE
DRAWING E2-1

DATE: 7-15-77		TITLE: EPOXY INSULATOR (EXTENSION 1)	
DRAWN BY: J. HERTZ		PRODUCTION DEPT: MOBBE DIA	
DESIGN BY:		JOB: DRAWING NO:	
CHECKED BY: SK		ELEC. SPECS: E 203	
APPROVED BY: SK			
SCALE: 1/4" = 1"			

(CONOCO)

Archaeological Clearance Report
for

Continental Oil Company

Burger B 20 Well No.1
Proposed Lease Road--Warren Unit

Prepared

By

Dr. J. Loring Haskell
and
Charles A. Aylward

Submitted

By

Dr. J. Loring Haskell
Principal Investigator
New Mexico Archaeological Services, Inc.
Carlsbad, New Mexico

22 June 1979

Permit No.78-NM-120

Introduction

On 21 June 1979, New Mexico Archaeological Services, Inc., (NMAS), Carlsbad, undertook for Continental Oil Company, Hobbs, an archaeological reconnaissance of lands administered by the Bureau of Land Management in Lea County, New Mexico. Reconnoitered areas will be impacted by the construction of a drill location and access road as well as by the addition of a new segment of lease road. This project was advanced by Mr. H.C. Pokrendt, Production Superintendent, Continental Oil Company, and expedited by Dr. J. Loring Haskell, Principal Investigator, NMAS. Dr. Haskell was assisted in the field by Mr. Charles A. Aylward, Staff Archaeologist.

Survey Technique

Continental Oil Company's proposed location was reconnoitered for signs of man's past activities by walking it in a series of 20 ft wide, close interval (15° or less), zigzag transects. In addition, an added zone embracing 20 ft on each side of the staked 400 X 400 ft location, and hence lying outside the proposed work area, was reconnoitered by a similar means as was the access road. The proposed lease road was examined by walking it in two, 20 ft wide, close interval, zigzag transects. Combined these procedures served to maximize the visual examination of areas to be impacted by construction-related activities.

Burger B 20 Well No.1

Location

This location will measure, 400 X 400 ft on federal lands and will be situated 1980 ft from the north line and 1980 ft from the west line of:

Section 20, T20S, R38E, N1PM, Lea County, NM

Thus it will be situated in the:

SE1/4NW1/4, Section 20, T20S, R38E, N1PM, Lea County, NM

Its associated access road will measure 12 X 1587 ft on federal land and will be situated in the:

SW1/4NW1/4, Section 20, T20S, R38E, N1PM, Lea County, NM

SE1/4NW1/4, Section 20, T20S, R38E, N1PM, Lea County, NM

Map Reference: USGS Hobbs SW, Quadrangle, 7.5 Minute Series, 1969.

Terrain

Topographically, this location rests on an undulating plain which trends toward the southwest into Monument Draw. The landform is overlain by a thick deposit of aeolian material of probable Pleistocene age. Local soils are sandy loams and loamy sands of a generally stable non-calcareous nature without lithic inclusions. Coppice type dunes in the immediate vicinity average 1 to 2 m. Associated deflation basins tend to be elongated and open-ended.

Floristics

The local floral overstory is dominated by Quercus havardii and Yucca glauca. Areal soils support modest stands of forbs which include: Dithyrea sp., Monarda purpureata, Hymenoxys sp., Hoffmansessia sp., Schrankia occidentalis, Oenothera sp., Penstemon sp., Colymbus sp., Euphorbia spp., Senecio spartioides, Uedvotis humifusa, and Zinnia acerosa. Observed grasses were limited to Sporobolus sp., Aristida sp., Muhlenbergia arenacea and Paspalum distichum.

Cultural Resources

No archaeological resources were recorded during this reconnaissance. This can be attributed to a lack of lithic raw materials such as chert or quartzite in the local soils and an overall absence of potable water. Although not encountered during this project, any sporadic occurrences of debitage would indicate sporadic and ephemeral use of this area by past populations.

Recommendations

NMAS recommends clearance for Conoco's Burger B 20 Well No.1 and access road and suggests that work-related activities proceed in accordance with company plans.

Lease Road

Location

As proposed, the lease road 12 X 2000 ft and will be situated in the:

SW1/4SE4, Section 20, T20S, R38E, NMPM, Lea County, NM
NW1/4NE4, Section 29, T20S, R38E, NMPM, Lea County, NM

Map Reference: USGS Hobbs SW Quadrangle, 7.5 Minute Series, 1969.

Terrain

Areal terrain is characterized by a undulating plain overlain with aeolian deposits of probable Pleistocene age. Coppice-type dunes and associated deflation basins demarcate the contemporary surface. Attendant soils belong to the Typic Torripsamment subgroup and consist of coarse-grained, non-calcareous, sandy loams and loamy sands lacking lithic inclusions.

Floristics

The contemporary floral assemblage is dominated by Quercus

bevardii which occurs in essentially unbroken stands. Attendant forbs include: Synonoxys sp., Senecio sp., Hilanthus sp., Rithyrea sp., Triceron sp., Euphorbia sp., Kallstroemia sp., Calyclophus sp., Monarda punctata, Hoffmannseggia sp., and Mentzelia sp. Grasses are sporadic in the area though Spizobolus spp. and Aristida sp. are represented.

Cultural Resources

No evidence of man's past activities was recorded during this reconnaissance. This local area is characterized by a lack of potable water, the absence of lithic resources in the soils, and a poorly sheltered terrain. These conditions preclude all but the most transitory of movements by past populations through the area.

Recommendations

NRAS recommends clearance for Conoco's lease road through the area in accordance with company plans.

RECEIVED
JUL 17 1979
O.C.D. HOBBS, OFFICE

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