

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

Conoco Inc.

3. ADDRESS OF OPERATOR

P.O. Box 460, Hobbs, N.M.

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

66015, 6601W

At proposed prod. zone

Same

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 drg. unit line, if any)

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED
TO THIS WELL18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

20. ROTARY OR CABLE TOOLS

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

3542' GR

22. APPROX. DATE WORK WILL START*

10-15-79

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	24	1250	596 SX CIRCULATE
7 7/8	5 1/2	17	6650	1799 SX

It is proposed to drill a straight hole to a T.D. of 7000' & complete
as a Monument Paddock oil well.

See attachment for 10 point well plan & 13 point Surface Use Plan.

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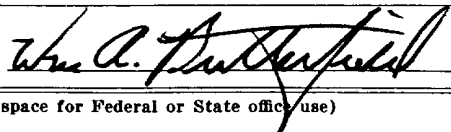
SEP 6 1979

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



TITLE

Admin. Supervisor

DATE

Sept 6, 1979

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED
AS AMENDED
SEP 24 1979

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

ACTING DISTRICT ENGINEER

*See Instructions On Reverse Side

USGS-6
NMFU-4
FILE
JFB

RECEIVED
SEP 25 1977
O.C.D. HOBBS, OFFICE

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

Conoco Inc.
Britt B No. 26

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:

0-1250'	8 5/8", 24#, K-55, ST&C
0-6650'	5 1/2", 17#, 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:

0-1250'	8.5 - 9.0 PPG	spud mud
1250-6650'	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.
9. No abnormal pressures or temperatures are expected to be encountered in this well.
10. The anticipated starting date is October 15, 1979, with a duration of approximately 17 days.

KJH:cab

PROPOS WELL PLAN OUTLINE

WELL NAME: Britt B No. 26

COUNTY: Lea

LOCATION: 660' FSL, 660' FWL
Sec. 15, T20S, R37E

STATE: New Mexico

[illegible]

WELL NAME Britt B No. 26 FIELD NMFU DATE 7-9-79
 AFE NO. ELEV. GRD KB PROPOSED TD 6650'
 LOCATION (SURF.) 660' FSL & 660' FWL OF SEC 15 T 20S R 37E
 COUNTY Lea STATE New Mexico SPACING 40 Acres

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>CO</u>
Rustler Anhy.	1172'			Blaine	5759'		
Salado Salt	1297'			Tubb	6300'		
Tansill	2401'			Drinkard	6622'		
Yates	2544'			TD	6650'		
Seven Rivers	2787'						
Queen	3288'						
Penrose	3390'						
Grayburg	3568'						
San Andres	3822'						
Glorietta	5125'						
Paddock	5218'						

<u>CORING NO.</u>	<u>TYPE</u>	<u>HORIZON</u>	<u>INTERVAL FROM-TO</u>	<u>FOOTAGE</u>	<u>REMARK</u>
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>HORI</u>
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		
2600'-TD	GR-CNL-FDC GR-DLL	7 7/8"	2" & 5" (Pull caliper to surface casing shoe)
5000'-TD	PDC	Inside 5 1/2" casing	Depth Control

FUEL AND WATER (SOURCE)

PROPOSED WELL PLAN

WELL NAME	Britt B No. 26		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'-1250' Drill 12 1/4" hole. Set and cement 8 5/8" surface casing. WOC-18 hours. Pressure test to 1000 psi for 30 minutes. Drill out.
- (2) 1250'-6650' Drill 7 7/8" hole. Pressure test surface casing shoe to 300 psi. Drill to TD (6650'). Run OH logs. Set and cement 5 1/2" OD 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 acidize and test Tubb formation and acidize Paddock.

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)		OD	ID	WT PER FT	GRADE	THREAD	AMT	WT. IN AIR, WT. IN MUD		REMARKS
FROM-TO								1000 LBS	1000 LBS	
(S) 0'-1250'		8 5/8"	7.972"	24#	K-55	STC	1250'	30#		
(P) 0'-6650'		5 1/2"	4.767"	17#	K-55	STC	6650'		113.05#	

DV Stage Tool @ + 4,000'

TYPE OF STRING	CENTRALIZERS		SCRATCHER	OTHER ACCESSORY EQUIPMENT		REMARKS
	NO. FROM-TO	INTERVAL		NO. INTERVAL	(SUCH AS DEGASSERS, MUD. CENTRIFUGE FLOAT COLLARS, ETC. - SPECIFY)	
(S) Surface	(4) 2 ea. on bottom two joints				Guide shoe & float collar	
	(8) 1 every 4 joints to surface					
(P) Production	(4) 2 ea. on bottom two joints				Float shoe & float collar	DV stage tool @ + 4,000'

*Final number and placement of centralizers and scratchers to be determined from OH logs.

FIELD PROGRAM

DEPTH INTERVAL FROM-TO	WEIGHT LBS/CAL	TYPE	OIL %	pH	WATER LOSS (cc)	VIS. (sec.)	YIELD POINT	THINNING AGENTS	WATER LOSS AGENTS
0'-1250'	8.5-9.0	Spud	--	9.0+	---	---	--	---	---
1250'-6650'	9.0-10.0	Salt Water Gel	--	9.0-10.0	10-12+	35-40	--	---	As Required

REMARKS

- (1) Below 1250', 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 1250'.
- (4) Condition mud to reduce water loss 50' above Paddock marker.
- (5) Condition mud to reduce viscosity to 30-32 prior to cementing.

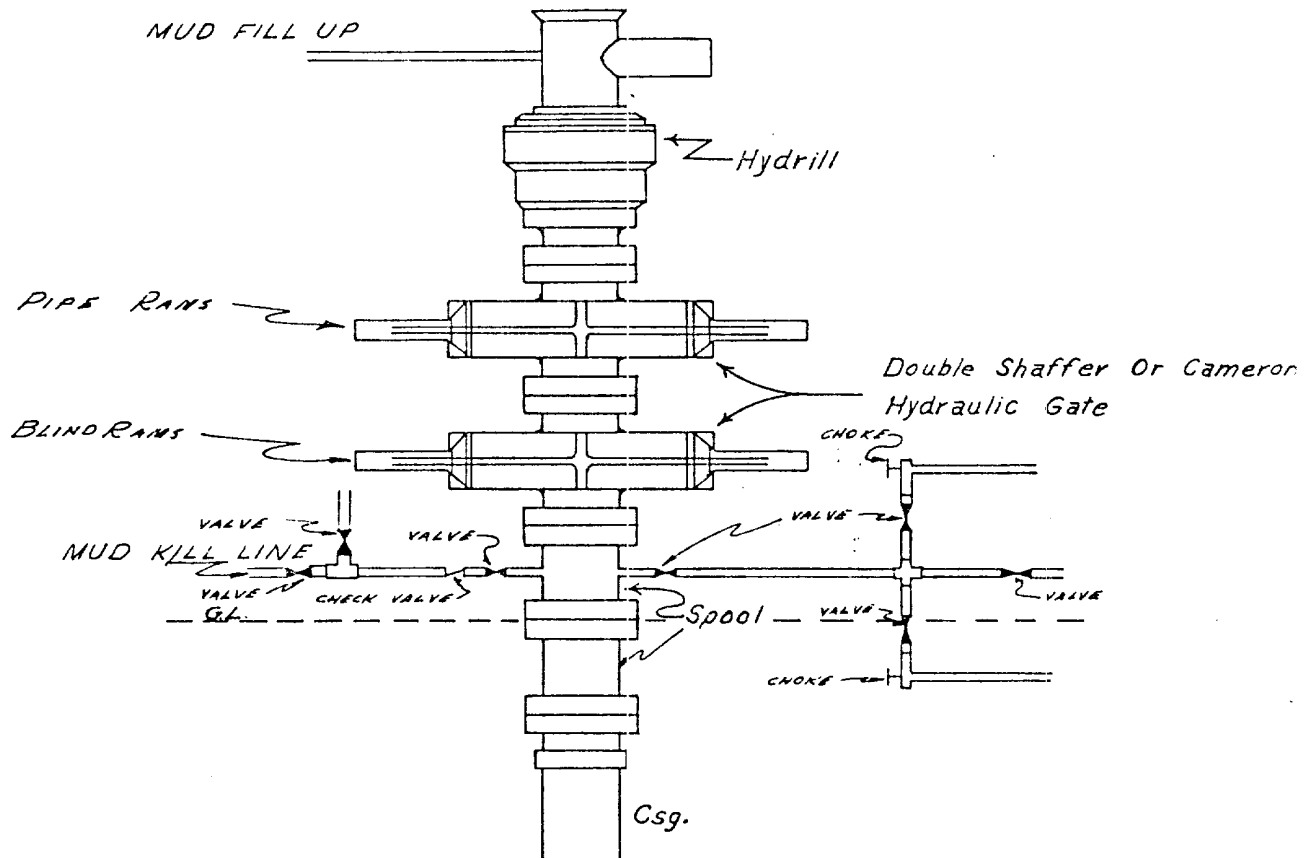
CEMENT

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) 0-1250' Class "C" (Lead)	4%	--	2%	13.3	1.88	440/825	Circ.	85°F	12 1/4"	100% Excess Add 1/4#/sx flocc if lost circ. occu
Class "C" (Tail In)	--	--	2%	14.8	1.32	156/206	--	--		
(P) 0-6650'										
(1st Stage)										
Class "C" (Lead)	4%	3#/sx.	--	13.3	1.88	184/346	To DV Tool @ 4000'	95°F	7 7/8"	100% Excess Add 1/4#/sx. flocc if lost circ. loc
Class "C" (Tail In)	--	3#/sx.	--	14.8	1.32	434/572	--			
(2nd Stage)										
Lite-Wate (Lead In)	--	DV Stage Tool @ 4000' 18%	--	13.3	1.93	981/1843	Circ.	95°F	7 7/8"	200% Excess Add 1/4#/sx. flocc if lost circ. occu
Class "C" (Tail In)	--	3#/sx.	--	14.8	1.32	200/264				

REMARKS

- (1) Lab test slurry for production casing.
- (2) Condition mud to have low plastic viscosity and yield strength.
- (3) Precede 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 log.
- (7) Reduce mud viscosity prior to cementing.

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.

All data must be from the outer boundaries of the Section

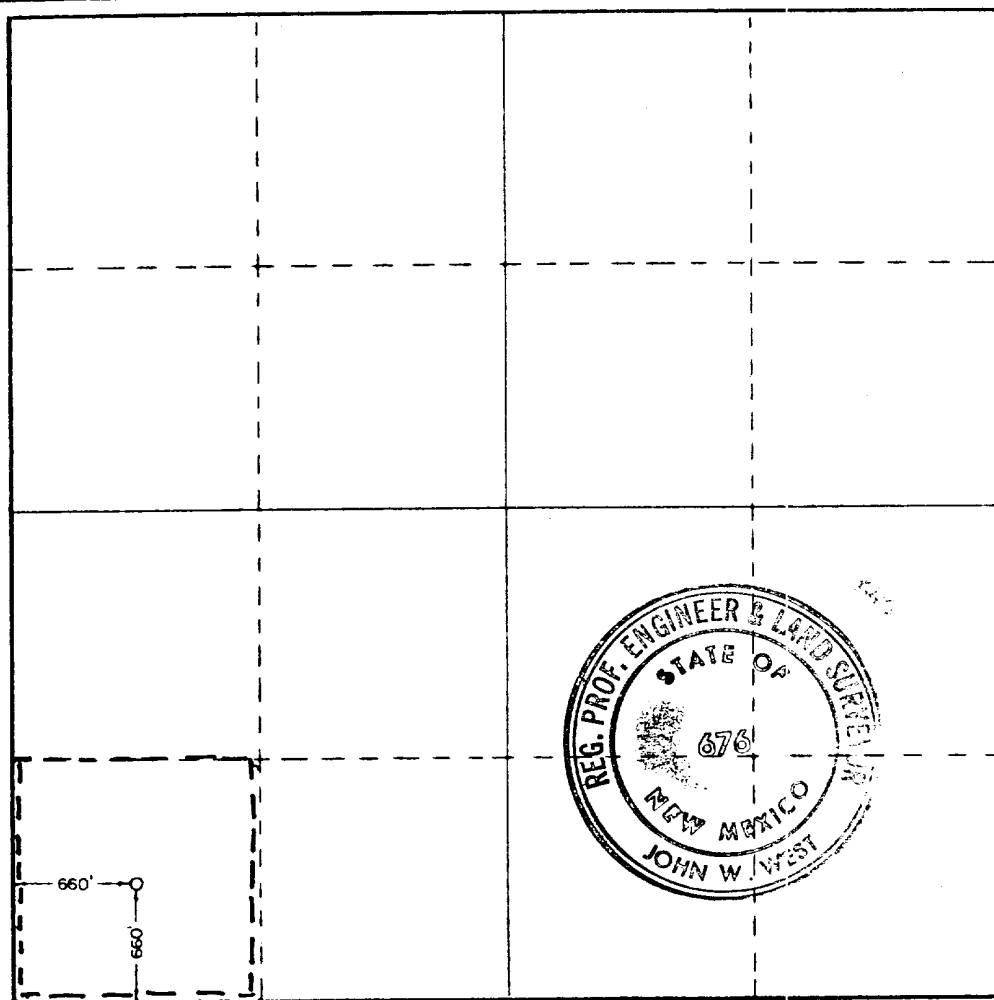
Operator CONOCO INC.		Lease Britt B		Well No. 26
Unit Letter M	Section 15	Township 20 South	Range 37 East	County Lea
Actual Footage Location of Well: 660 feet from the South line and 660 feet from the West line				
Ground Level Elev. 3542	Producing Formation Paddock	Pool Monument Paddock	Dedicated Acreage: 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. Butler
Position
Administrative Supervisor
Company
Conoco Inc.
Date
Sept. 6 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

July 7, 1979

Registered Professional Engineer and/or Land Surveyor

Certificate No.

John W. West

676

Ronald J. Eidson

3239

SURFACE USE PLAN
Conoco Inc.
Britt B No. 26

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 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 660' FWL, Section 15, T20S, R37E, Lea County, New Mexico.
- B. Exhibit A is a portion of a New Mexico road map showing existing roads. Directions to the location are as follows: From the Stanolind Road south of Hobbs, travel south on New Mexico 18 approximately 10 miles to Conoco's red, white, and blue cattle-guard at the entrance to our Warren Unit. 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 100' long. This new road is labeled and coded on Exhibits B and C.
- B. Turnouts: None required.
- C. Drainage Design: New road 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 and 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: No new tank batteries are required.
- B. Producing Facilities: No new producing facilities are required.
- C. Oil Gathering Lines: Flow lines will lay, not buried, on the surface alongside the road right-of-way.
- D. Other Lines: Electrical distribution lines will be built 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 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

Caliche will be hauled over existing roads from a pit in the SE/SE Section 15, T20S, R38E, Lea County, New Mexico.

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: Sandy
- 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 Conoco Inc. and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

9/5/79
Date

H. C. Pokrandt
H. C. Pokrandt
Production Superintendent

District Engineer
U. S. Geological Survey

Gentlemen:

RE: Britt B No. 26

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 S+W Cattle Co, 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~~).

H. Brandt

STATE OF NEW MEXICO
COUNTY OF LEA

Subscribed and sworn to before me this 6TH day of September, 1979

W. M. Moore
Notary Public

My commission expires 2-20-81

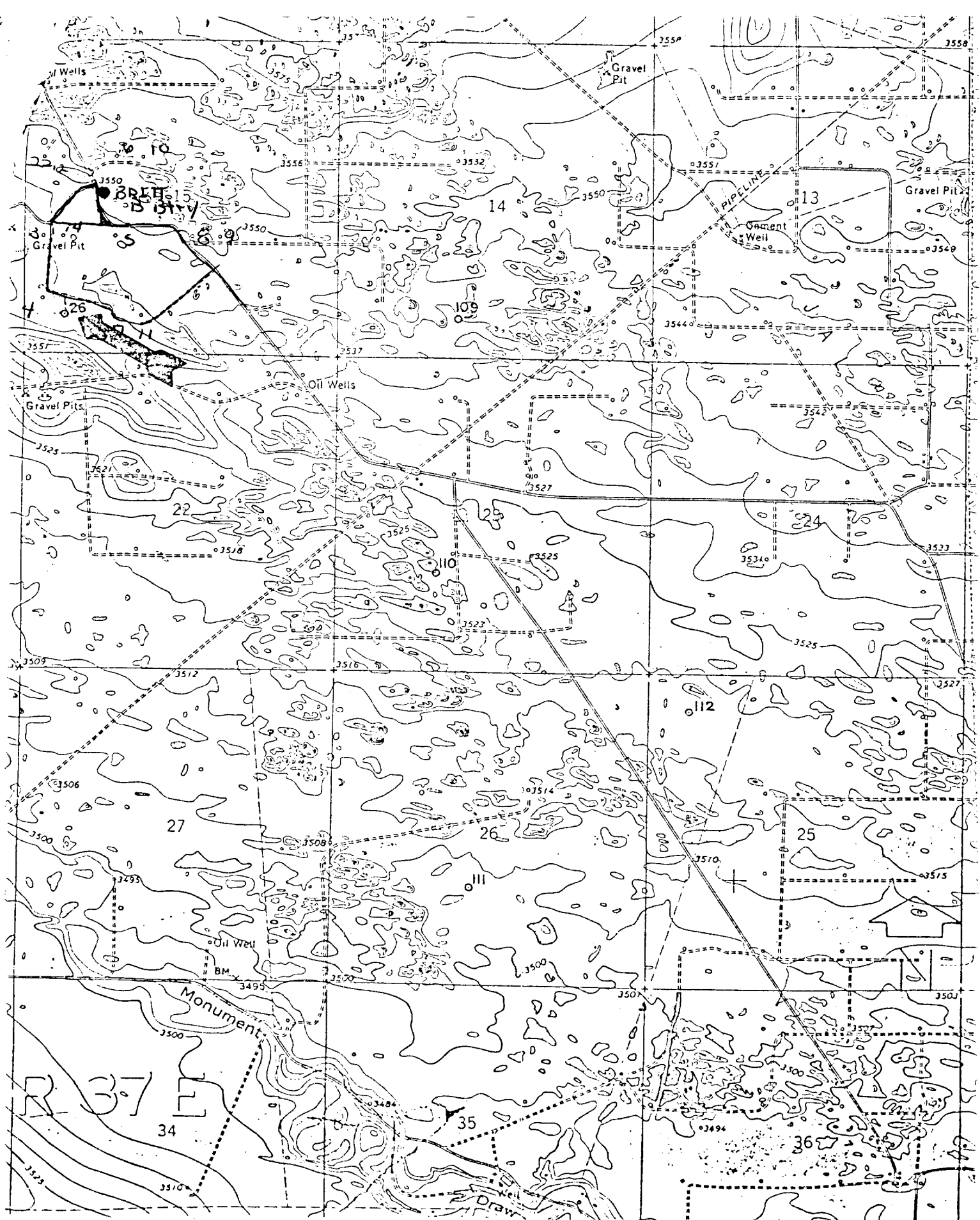


EXHIBIT B

R37E

R38E

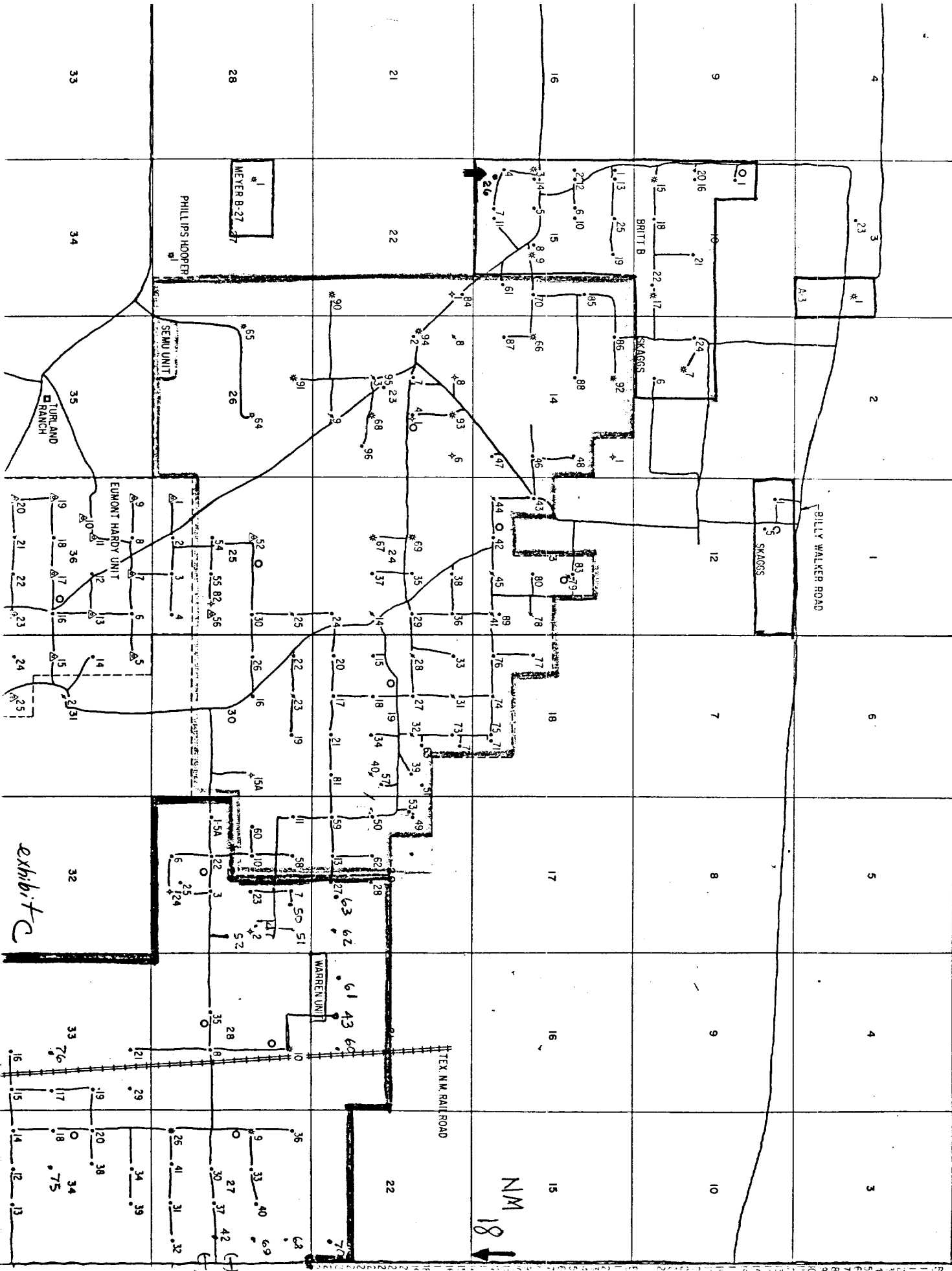
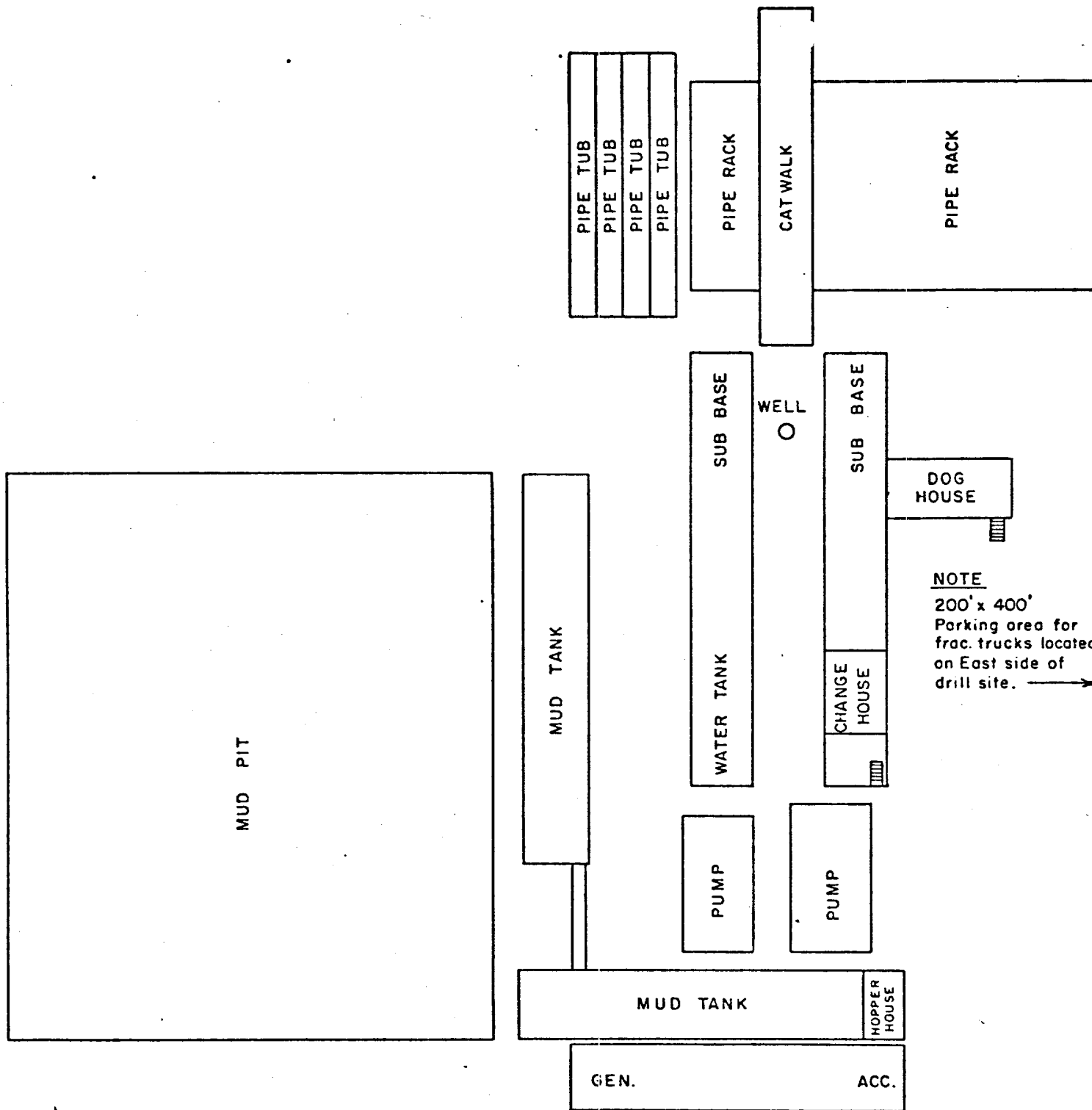


exhibit C



APPROX. RIG SITE DIMENSIONS
160' x 200'

CONTINENTAL OIL COMPANY
PRODUCTION DEPARTMENT
Casper, Wyoming



RIG LAYOUT

Engineer: ~~James D. Smith~~

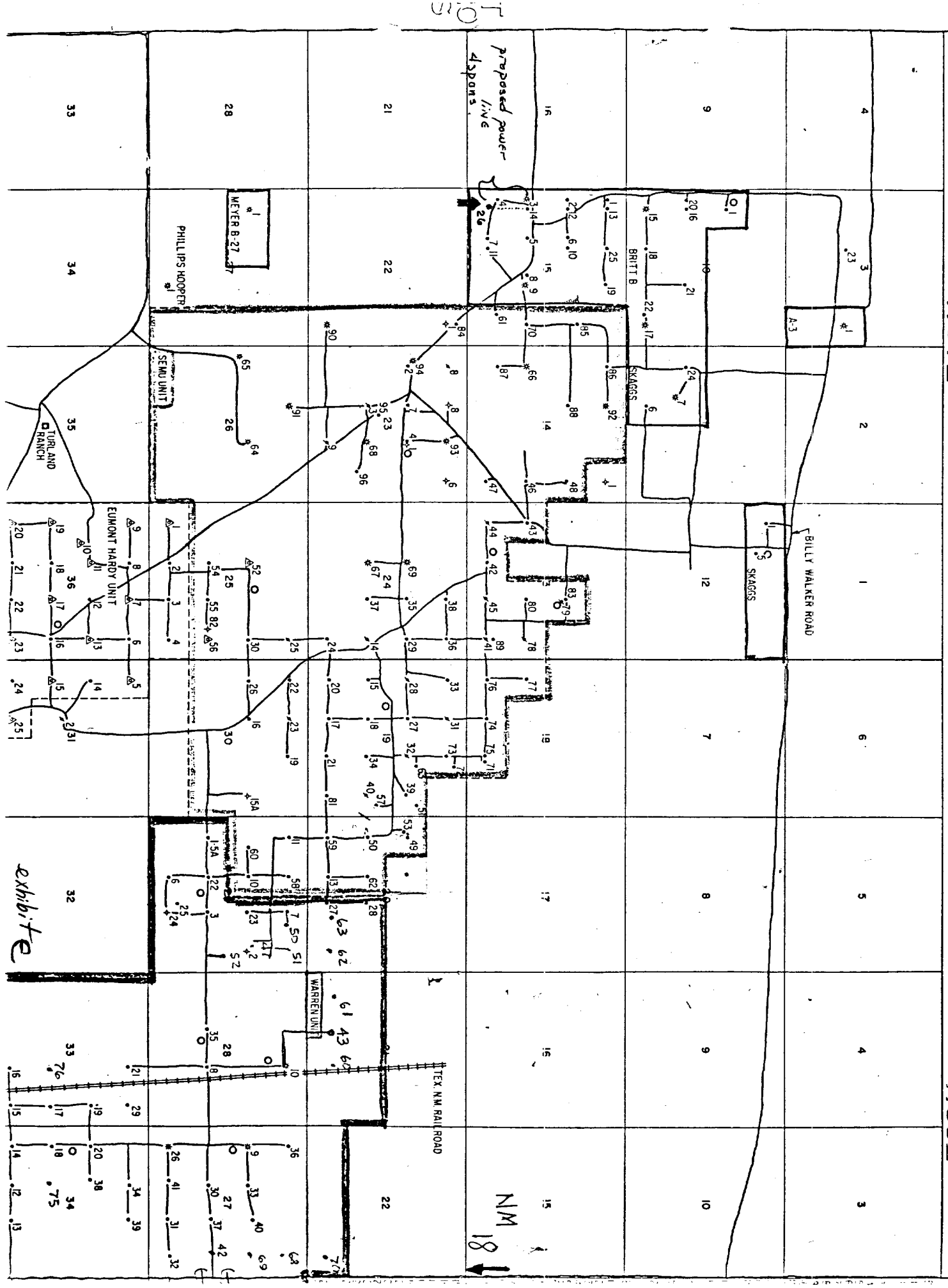
Draftsman: B.S.

Date: 1-4-73

EXHIBIT "D"

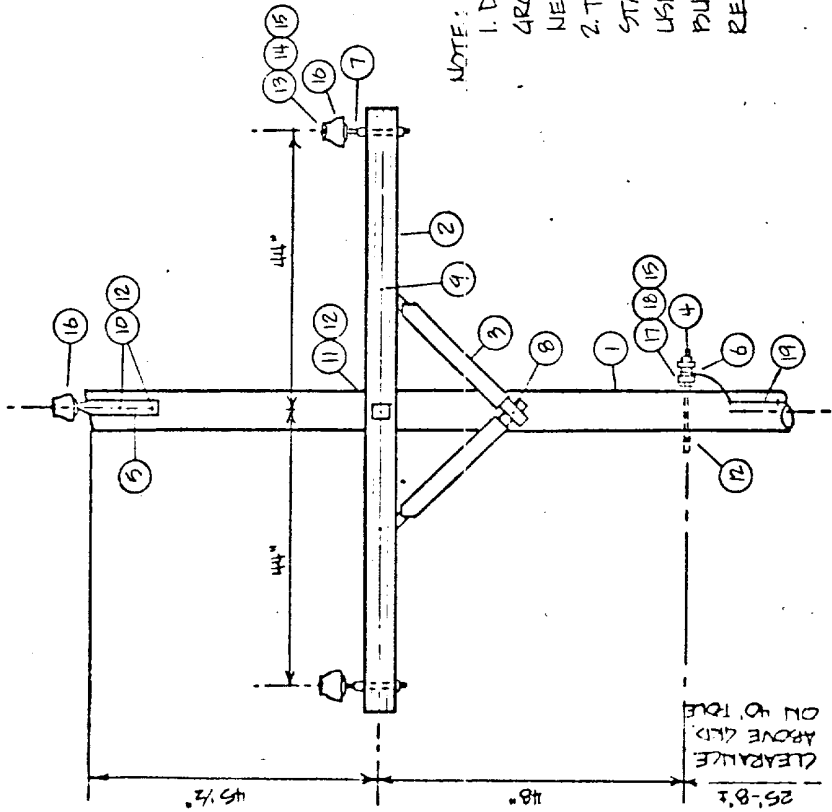
R37E

R33E



exhibite

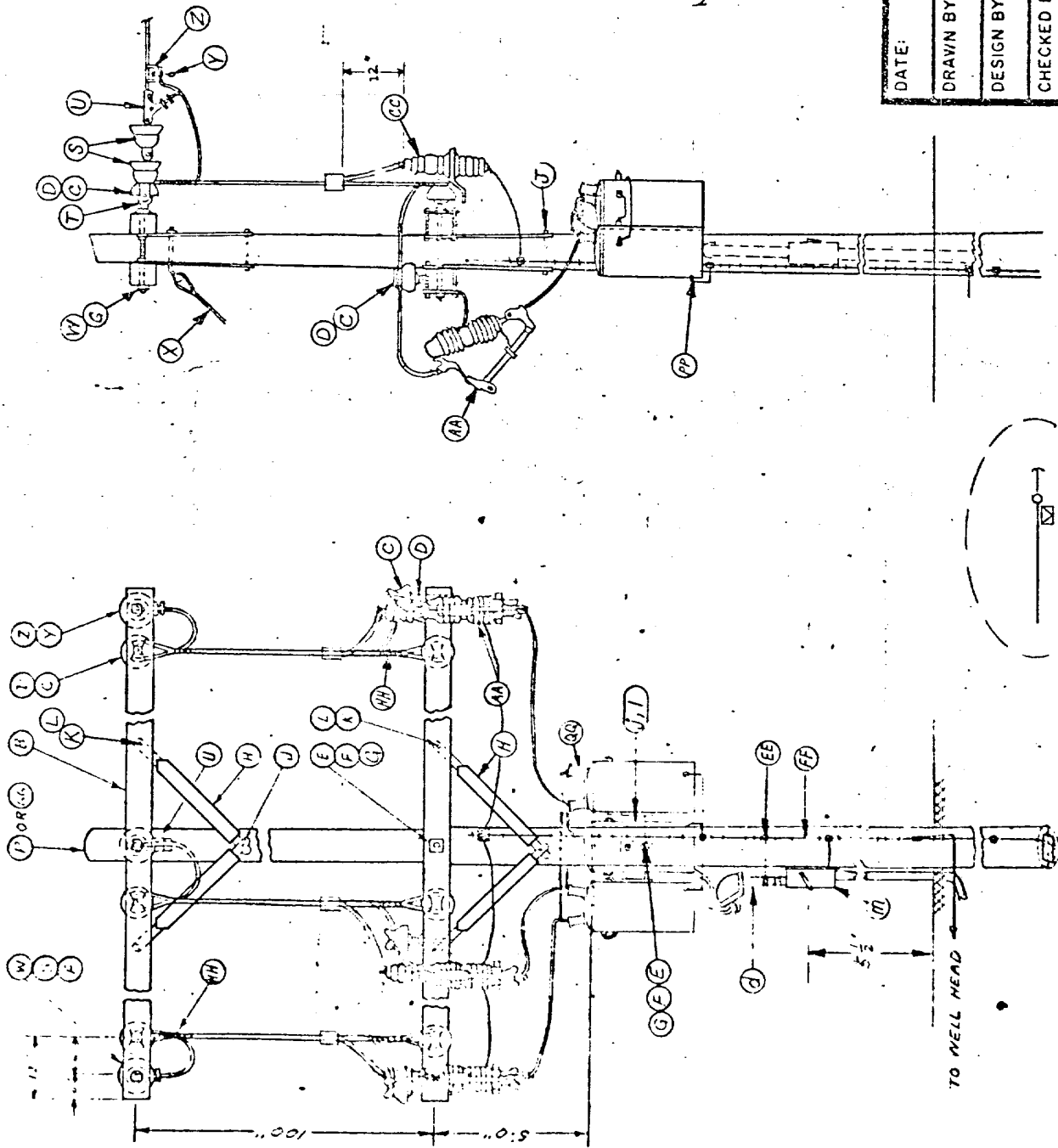
MATERIALS					
ITEM	DESCRIPTION	REQ'D	ITEM	DESCRIPTION	REQ'D
1	POLE, 40'	1	17	NEUTRAL CONDUCTOR	—
2	CROSSARM, 3/2"x 4 1/2" x 8'	1	18	ARMOR ROD	1
3	BRACE, WOOD	2	19	POLE GROUND WIRE, #6 CU.	5*
4	STUD RACK	1			
5	RIDGE PIN, 15"	1			
6	SPOOL INSULATOR	1			
7	STEEL PIN, 3/8" x 5"	2			
8	LAG SCREW, 1/2" x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



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

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

ITEM	QTY	REF
A	4	
C	5	
D	2	
E	3	
F	24	
G	12	
H	8	
J	4	
K	8	
L	8	
Per 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	
B	1	
J-1	1	ES-1A, NOTE 2
M	1	
PP	3	
QQ	6	



NOTE:
 1. CENTER PHASE ON BANK WILL HAVE EPOXY INSULATOR, KEARNEY # 223015-24 INGS. (REF. - REFER TO DRAWG. ES-2B)
 2. ALL WIRE FROM POINT "U" WILL BE INSULATED TYPE WIRE ON TRANSFORMER BANK.

DATE: 12-13-71	TITLE: SINGLE POLE SUB-TA.
DRAWN BY: LRD	1PH. TRANS. CLUSTER MOUNT
DESIGN BY: LRD	PRIM. DEAD-END-12500/480V AC SR
CHECKED BY:	
APPROVED BY:	
SCALE: NONE	

CONOCO	PRODUCTION DEPT.	HOBBS DIVISION
	JOB:	DRAWING NO:
	ELEC SPECS	ES-9

RECEIVED

SEP 25 1977

O.C.D. HOBBS, OFFICE

ITEM	DESCRIPTION	A. B. CHANCE NO.	JOSLYN NO.	OTHER NFRS. 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/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" x 1" locknut	3512			
H	1/4" x 1 1/4" x 28" flat crossarm brace	7128			
I	1/2" x 4" E7 Fetter Drive Log Screw	508754			
J	3/8" x 4 1/2" carriage bolt w/ Nut	8634 1/2			
K	3/8" x 1" locknut	3510			
L	Preformed Aluminum Alloy Armor Rods, size req'd				
M	tie wire #6 strong alum. alloy			KEARNEY #32102560	X
N	Epoxy Insulator (Extension Link)				
P	35' class 5 creosoted pine pole			KEARNEY SERIES "81"	X
R	Aluminum double tab Squeeze on Connector for ACSR, Aluminum, or Copper-size req'd				
S	6" Suspension Insulator	66200			
T	5/8" Standard Oval Eye Nut	6502			
U	Primary head and clamp		14050		
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	51520AGP			
Z	Squeeze on basket, size required			KEARNEY	X

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

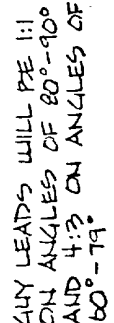
TITLE:	DESCRIPTION MATERIALS
CONSCO	
PRODUCTION DEPT.	HOBBS DIVISION
JOB:	ELEC SPECS
DRAWING NO:	ES-1
	SHEET 1 OF 3

ITEM	DESCRIPTION	A. B. CHANGE NO.	JOSLYN NO.	OTHER MFRS. NO.	NO SUB.
A4	Primary Cutout - 100 amp, 15 KV, 16000 amp int. cap.	F2XX1015G			X
B2	General Purpose "U" bolt Clamp	UC510AGP			
C1	Lightening arrester, 10 KV				
D1	Single phase oil switch, 14.4 KV			MYKAW-EDISON KVMC2	
E1	Split bolt connector, size req'd			BLACKBURN "H" SERIES	
FF	grounding specs. see dwg No. ES-11 & ES-1A, Note 3				
GC	35' class 4 creosoted pine pole				
HE	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 arrester single phase			BURNDY KC-22	X
NN	Greenfield Type FF 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				
QQ	Bird Guards (insulating boots on transformer bushings)	GWS-15		UNESCO H-1000	

TITLE: DESCRIPTION MATERIAL	
DATE: 12-27-71	
DRAWN BY: E. WINTER	
DESIGN BY:	
CHECKED BY:	
APPROVED BY:	
SCALE: NONE	
CONOCO	
PRODUCTION DEPT.	HOBBS DIVISION
JOB:	DRAWING NO:
FLEC SPECS	ES-1
	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		1101		
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		10101		
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	pretorred guy grip for 3/8" guy strand				
dd	5/8" x 10" angle thimbleye bolt w/nut	5010			X
ee	3"x3"x1/4"x11/16" hole curved washer	6823 1/2			
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:	
CHECKED BY:	PRODUCTION DEPT.
APPROVED BY:	HOBBS DIVISION
SCALE: NONE	DRAWING NO:
	ELEC SPECS
	ES-1
	SHEET 3 OF 3



1. ALL JUMPERS ON CONDUCTOR PHASES WILL BE INSULATED TYPE WIRE.

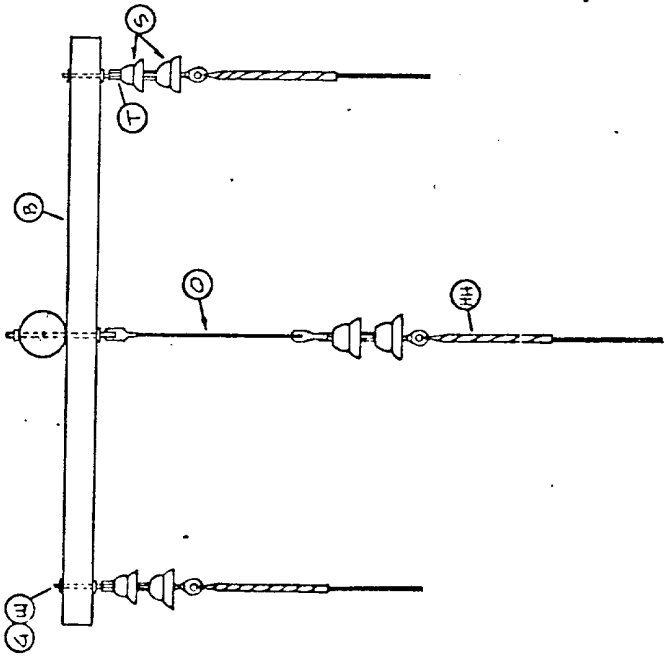
2. THIS CONSTRUCTION STANDARD TO BE USED ON ALL LINES BUILT ON NATIONAL RESOURCE LANDS.

3. DO NOT INSTALL GROUND WIRE PAST NEUTRAL CONDUCTOR

ITEM	DESCRIPTION	REQD
1	POLE _____ LENGTH, CLASS _____	1
2	ANCHOR, 2"	2
3	ANCHOR ROD, 5/8" x 7'	2
4	GUY ATTACHMENT, F133A	2
5	GUY CAPLE, 3/8" U.L.G.	24*
6	GUY INSULATOR, 506	2
7	EFGNY INSULATOR, KEARNEY # 3232N5-24	2
8	CLAMP, 2-POLT	2
9	GUY GRIP, 3/8"	6
10	CROSS ARM, 8'	4
11	BRACE, 3/8" 5PA.	8
12	LAG SCREW, 1/2"	6
13	STEEL, PIN 5/8" x 5"	2
14	RACK, 1-POINT	2
15	SPOOL INSULATOR, 34	2
16	POLT, D.A., 5/8" x 10"	6
17	POLT, MACH, 3/8" x 4 1/2"	8
18	POLT, MACH, 5/8" x 10"	2
19	POLT, 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"	6
25	PHASE CONDUCTOR NO. _____	—
26	NEUTRAL CONDUCTOR NO. _____	—
27	PREF DE, NO. _____	6
28	PREF. DE, NO. _____	2
29	CLEVIS, THIMPLE	6
30	JUMPER SLEEVE, NO. _____	2
31	CONNECTOR, 5.0. 5ML. 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 ALGR	
DRAWN BY: L. Morrill	CONOCO	
DESIGN BY:		
CHECKED BY: SK	PRODUCTION DEPT.	HOBBS DIVISION
APPROVED BY: SK	JOB:	DRAWING NO:
SCALE: NONE	ELEC. SPECS. ES-27	

ITEM	QTY. REQ'D
P	1
L	3
HH	3
O	1
S	6
T	2
U	3



NOTE:
FOR MATERIALS, SEE
DRUGS, ES-1

DATE: 7-15-77	TITLE: EPOXY INSULATOR (EXTENSION LINK)
DRAWN BY: I. Morrill	CONOCO
DESIGN BY:	
CHECKED BY: SK	PRODUCTION DEPT. HOBBS DIVISION
APPROVED BY: SK	JOB: DRAWING NO:
SCALE: 1/4" = 1"	ELEC. SPECS. ES-28

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112

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SEP 24 1964
O.C.D. HOBBS, OFFICE