

38 015-23982

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

C/SF
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. 88240

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

At surface

1980' FSL & 1980' FEL

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.)

3621' GR (est.)

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	54.5 #	500'	430sx - Circulate
12 1/4"	9 5/8"	36 #	1200'	593sx - Circulate
8 3/4"	7"	26 #	9667'	735sx - 5700'

It is proposed to drill a straight hole to a TD of 9667' and complete it as a Cisco /Morrow dual gas well.

See attachments for 10 pt well plan and 13 pt Surface Use Plan.

Acres is not dedicated to a purchaser.

5. LEASE DESIGNATION AND SERIAL NO.

NM-043625

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal 14 Com.

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT

South Digger Draw Upper Penn / Cemetery Morrow

11. SECTION, T. R., M., OR BLK.

12. COUNTY OR PARISH

Sec. 14, T-20S, R-24E

13. STATE

Eddy

NM

17. NO. OF ACRES ASSIGNED TO THIS WELL

320 acres

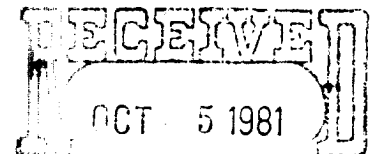
20. ROTARY OR CABLE TOOLS

Rotary

22. APPROX. DATE WORK WILL START*

December 28, 1981

Posted ID-1
API + NL Book
11-13-81



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 G. Butterfield*

TITLE Administrative Supervisor

DATE October 2, 1981

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

NOV 6 1981

JAMES A. GILHAM
DISTRICT SUPERVISOR

*See Instructions On Reverse Side

MEXICO OIL CONSERVATION COMMISS.
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.

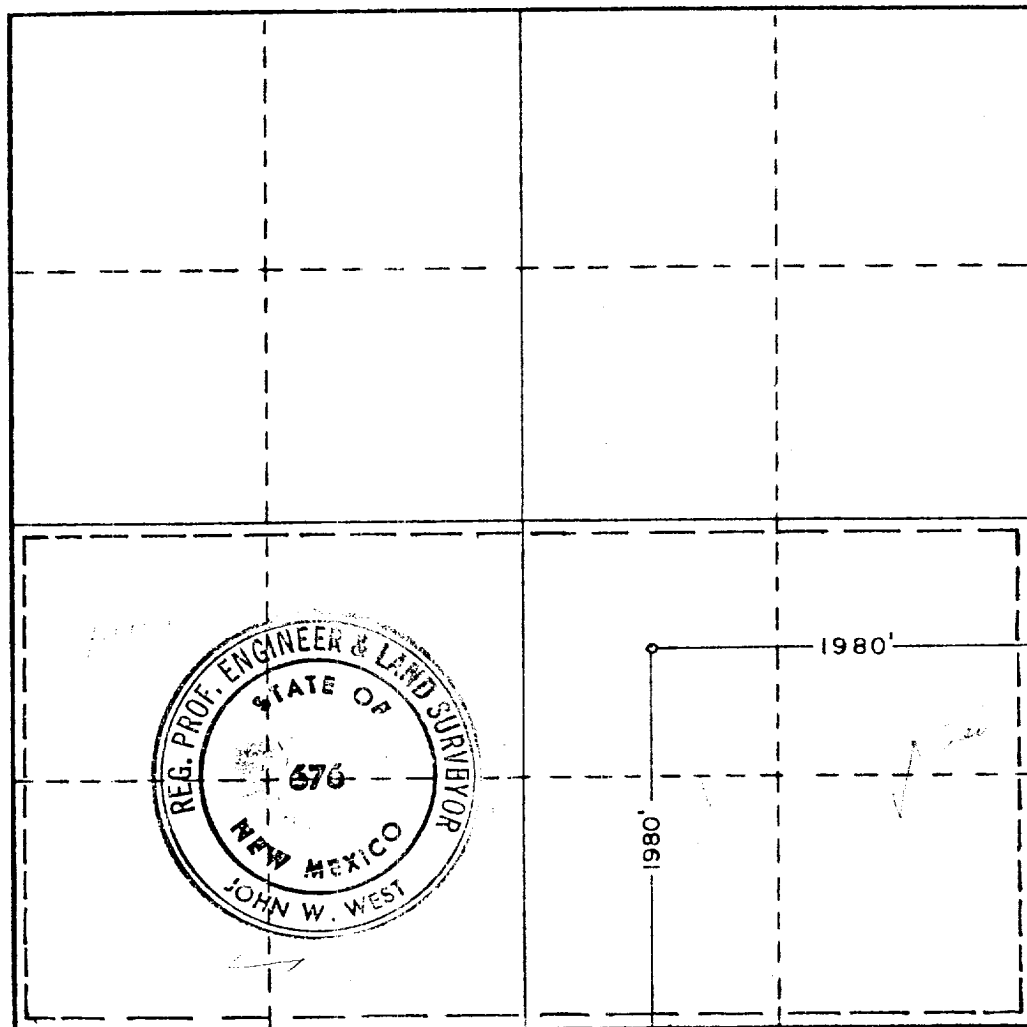
Operator CONOCO, INC.			Lease FED. 14 COM.		Well No. 1
Unit Letter J	Section 14	Township 20 SOUTH	Range 24 EAST	County EDDY	
Actual Footage Location of Well: 1980 feet from the SOUTH line and 1980 feet from the EAST line					
Ground Level Elev. 3620.6	Producing Formation Cisco / Morrow	Pool South Dagger Draw Upper Penn / Morrow		Dedicated Acreage: 320 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.

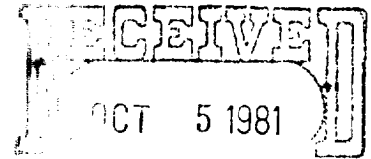
Name *Wm. A. Dyer*
 Position *Administrative Supervisor*
 Company *Conoco Inc.*
 Date *October 2, 1981*

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 **9-2-81**

Registered Professional Engineer and/or Land Surveyor

John W. West
 Certificate No. **JOHN W. WEST 676**
PATRICK A. ROMERO 6868
Ronald J. Eidson 3239



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

OIL & GAS
NEW MEXICO GEOLOGICAL SURVEY
SOSWELL, NEW MEXICO

Conoco Inc.
Federal 14 Com. No. 1
Sec. 14, T-20S, R-24E
Eddy County, New Mexico

1. The geologic name of the surface formation is Grayburg Water.
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' - 500' 13 3/8", 54.5#, K-55, STC
0' - 1200' 9 5/8", 36#, K-55, STC
0' - 9667' 7", 26#, K-55 & L-80, BTRC
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' - 500' 8.5-9.0 ppg spud mud
500' - 1200' 8.5-9.0 ppg fresh water
1200' - 9667' 8.9-9.0 ppg fresh water
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 December 28, 1981, with a duration of approximately 42 days.

WELL NAME Federal 14 Com No. 1 FIELD Boyd Morrow DATE 2/9/81
 ELEVATION Est. GRD 3605' KB 3620' PROPOSED T.D. 9667'
 LOCATION (SURFACE) 1980' FSL & 1980' FEL OF SECTION 14 T- 20S R- 24E
 COUNTY Eddy STATE NM SPACING 320 acres

GEOLOGICAL ESTIMATES

ZONE	TOP	CONTENT (O=Oil, G=Gas, W=Water)
San Andres Dolo.	600'	O, W,
Glorieta SS.	2150'	O, W,
Bone Springs SS.	3140'	O, W,
Wolfcamp LS.	5800'	-
Cisco-Canyon Reef LS.	7600'	O, W,
Strawn LS.	8140'	-
Atoka	8680'	G
Morrow SS.	8900'	G
Barnett SH.	9330'	-
Chester LS.	9617'	G

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

DEPTH POINTS	TYPE	HOLE SIZE	REMARKS
0'-TD	(1) Deviation	17-1/2", 12-1/4", 8-3/4"	One every 250' to 1200' One every 500' thereafter
0'-TD	(7) Geolograph	17-1/2", 12-1/4", 8-3/4"	
7500'-9667'	(6) Dipmeter	8-3/4"	
1200'-9667'	(5) DLL-GR	8-3/4"	2" & 5" Scales
1200'-9667'	(6) FDC-CNL-GR-CAL	8-3/4"	2" & 5" Scales
7500'-9667'	(6) PDC (GR-COLLAR)	7" csg.	Depth control
0'-TD	(4) Temperature	7" csg.	Determine top of cement

CONOCO TO FURNISH WATER, CONTRACTOR TO FURNISH FUEL.

PROPOSED WELL PLAN

WELL NAME	Federal 14 Com No. 1	FIELD	Boyd Morrow
<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'-500' - Drill a 17-1/2" hole. Run and cement 13-3/8" surface casing (see cement & casing programs.) WOC 18 hours. Pressure test casing to 600 psi for 30 minutes.
2. 500'-1200' - Drill a 12-1/4" hole. Run and cement 9-5/8" intermediate casing (see cement & casing programs.) WOC 18 hours. Pressure test casing to 600 psi for 30 minutes.
3. 1200'-9450' - Drill a 8-3/4" hole. Drill out shoe and pressure test formation to 250 psi. Run open hole logs. Run and cement 7" production casing. (see casing & cement programs.)
4. Detailed completion procedure to be prepared after open hole logs are analyzed. Anticipate a Morrow/Cisco dual completion.

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	DRIFT ID	WT PER FT	GRADE	THREAD	AMT	WT. IN AIR, WT. IN MUD		REMARKS
							1000 LBS	1000 LBS	
(S) 0'-500'	13-3/8"	12.459"	54.5#	K-55	STC	500'	27.3		
(I) 0'-1200'	9-5/8"	8.765"	36#	K-55	STC	1200'	43.2		
(P) 0'-9667'	7"	6.151"	26#	K-55	BTRC.	7500'	252		Ruff-cote bottom 500'
	7"	6.151"	26#	L-80	BTRC.	2167'			

OTHER ACCESSORY EQUIPMENT
(SUCH AS DEGRASSERS, MUD. CENTRIFUGE
FLOAT COLLARS, ETC. - SPECIFY)

TYPE OF STRING	CENTRALIZERS		SCRATCHER	NO. INTERVAL		NO. FROM-TO	REMARKS
	INTERVAL	NO. FROM-TO		NO. INTERVAL	NO. FROM-TO		
Surface	(5) 0'-500'		None				Centralizers - 100' spacing
Intermediate	(12) 0'-1200'		None				Centralizers - 100' spacing
Production	(20) 1100'-1200'			(15) 7600'-7825'			Centralizers - 40' spacing
	(14) 7500'-8140'			(15) 8900'-9125'			Scratchers - 15' spacing
	(20) 8867'-9667'						

PROPOSED WELL PLAN OUTLINE

WELL NAME: Federal 14 Com No. 1

COUNTY: Eddy

STATE: NM

LOCATION: 1980' FSL & 1980' FEL

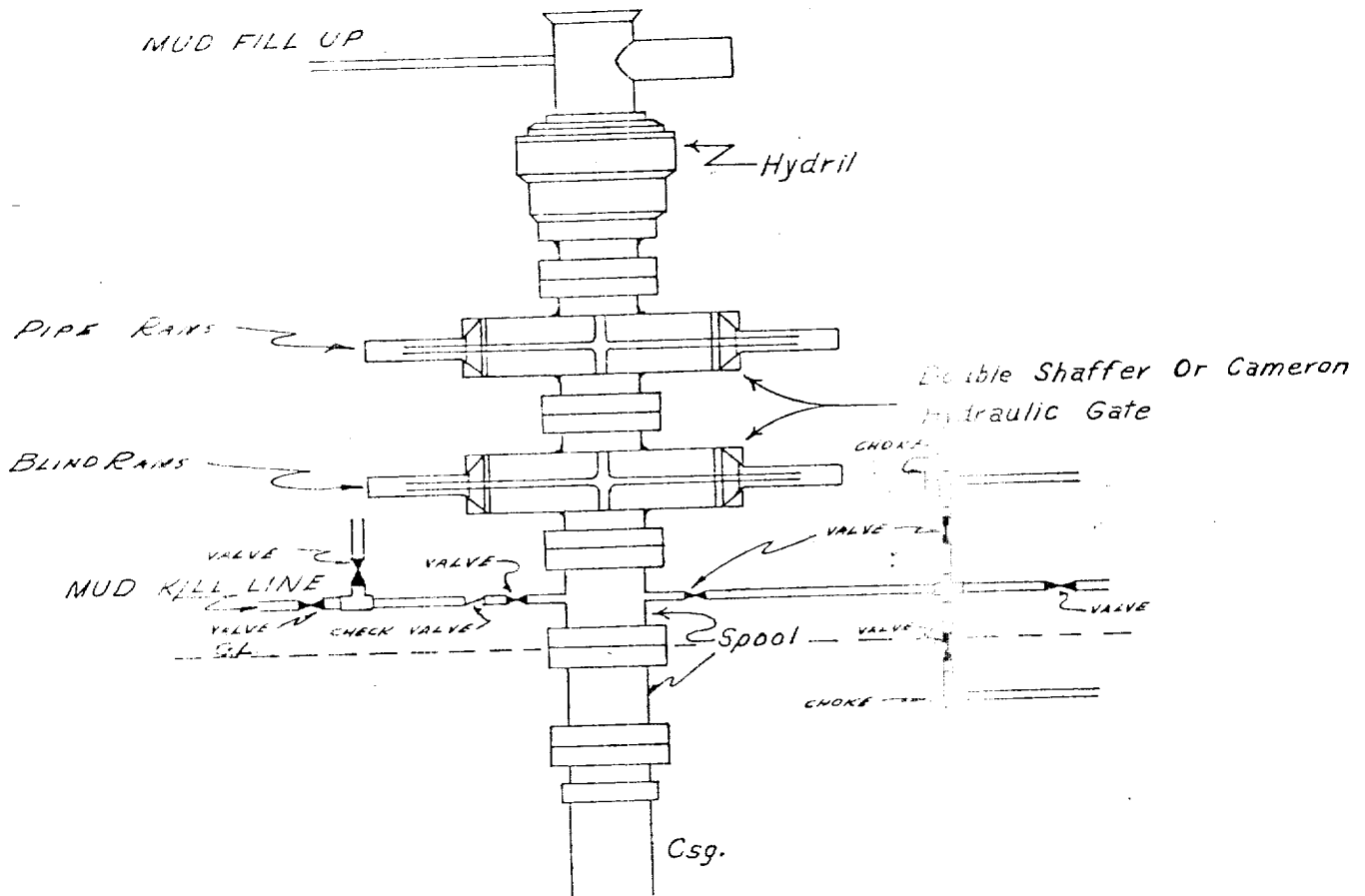
EST: 3620'

Sec. 14, T-20S, R-24E

EST: 3605'

DEPTH	FORMATION TOPS & TYPE	DRILLING PROBLEMS	TYPE OF FORMATION EVALUATION	HOLE SIZE	CASING		FRAC GRADIENT	FORMATION PRESSURE GRADIENT	MUD	
					SIZE	DEPTH			(PPG) WEIGHT	(PPG) TYPE
	Grayburg Water	SS. & Dolo.	Geolograph Deviation 0'-TD	17-1/2"	26# STC 8-55	500'		8.3- 8.5	8.5- 9.0	Spud.
1000	San Andres Dolo.	Possible lost circulation 550'-1100'		12-1/2"	36# STC 8-55	1200'	12-13	8.3- 8.5	8.5- 9.0	fresh water
2000	Glorieta SS.	2150'	Samples every 30' from 0' - 1500'							
3000	Bone Springs SS.	3140'	Samples every 10' from 1500' to TD							
4000										
5000										
6000	Wolfcamp LS.	5800'								
7000										
8000	Cisco Reef LS.	7600'								
	Strawn LS.	8140'	CNL-FDC-GR-CAL 1200'-TD 2" & 5" Scales DLL-GR		26# 8-55 STC 125#	7500'				
9000	Atoka SH.	8680'	1200'-TD		26# 8-55 STC 125#	2167'				
	Morrow LS.	8900'	2" & 5" Scales Dipmeter 7500'-TD		26# 8-55 STC 125#					fresh water low solid poly
	Barnett SH.	9330'			26# 8-55 STC 125#			8.5- 8.8	8.9- 9.0	
	Chester LS.	9617'			26# 8-55 STC 125#	9667'	15-16			
10,000	TD - 9667'		PDC (GR-COLLAR) 7500'-TD							

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,
HYDRIL MAY OR MAY NOT BE USED.*



SURFACE USE PLAN

Conoco Inc.
Federal 14 Com. No. 1
Sec. 14, T-20S, R-24E
Eddy 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 all contractors and sub-contractors will be aware of all items of this plan.

1. EXISTING ROADS

- A. The proposed well site is 1980' FSL and 1980' FEL of Section 14, T-20S, R-24E, Eddy 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 Artesia, travel south 8 miles, turn west 7 miles and south 4 miles. See Exhibit C for lease roads to location.
- 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 12' wide and 1900' 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: None.
- E. Surfacing Material: Six inches of caliche, bladed, watered and compacted.
- F. Gates, Cattleguards and 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: None within one mile.
- B. Producing Facilities: Amine plant 3/4 mile northeast.
- C. Oil Gathering Lines: None within one mile.
- D. Other Lines: Lines to and from amine plant. See Exhibit C.
- 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 over lease roads from the Foster Water Station.

6. SOURCE OF CONSTRUCTION MATERIALS

Caliche will be hauled from a pit located in the SW/4 of the SE/4 of Section 31, T-19S, R-25E, Eddy 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: Grasses, mesquite.
- D. Surface Use: Grazing.
- E. Ponds and Streams: None within one mile.
- F. Water Wells: None within one mile.
- G. Residences and Buildings: Amine plant 3/4 mile northeast.
- 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: See archaeological report.

12. OPERATOR'S REPRESENTATIVE

Field personnel who can be contacted concerning compliance of this Surface Use Plan are as follows:

Production and Drilling
M. L. Wise
726 E. Michigan
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.

10/1/81
Date

M. L. Wise
M. L. Wise
Drilling Superintendent

R-24-E

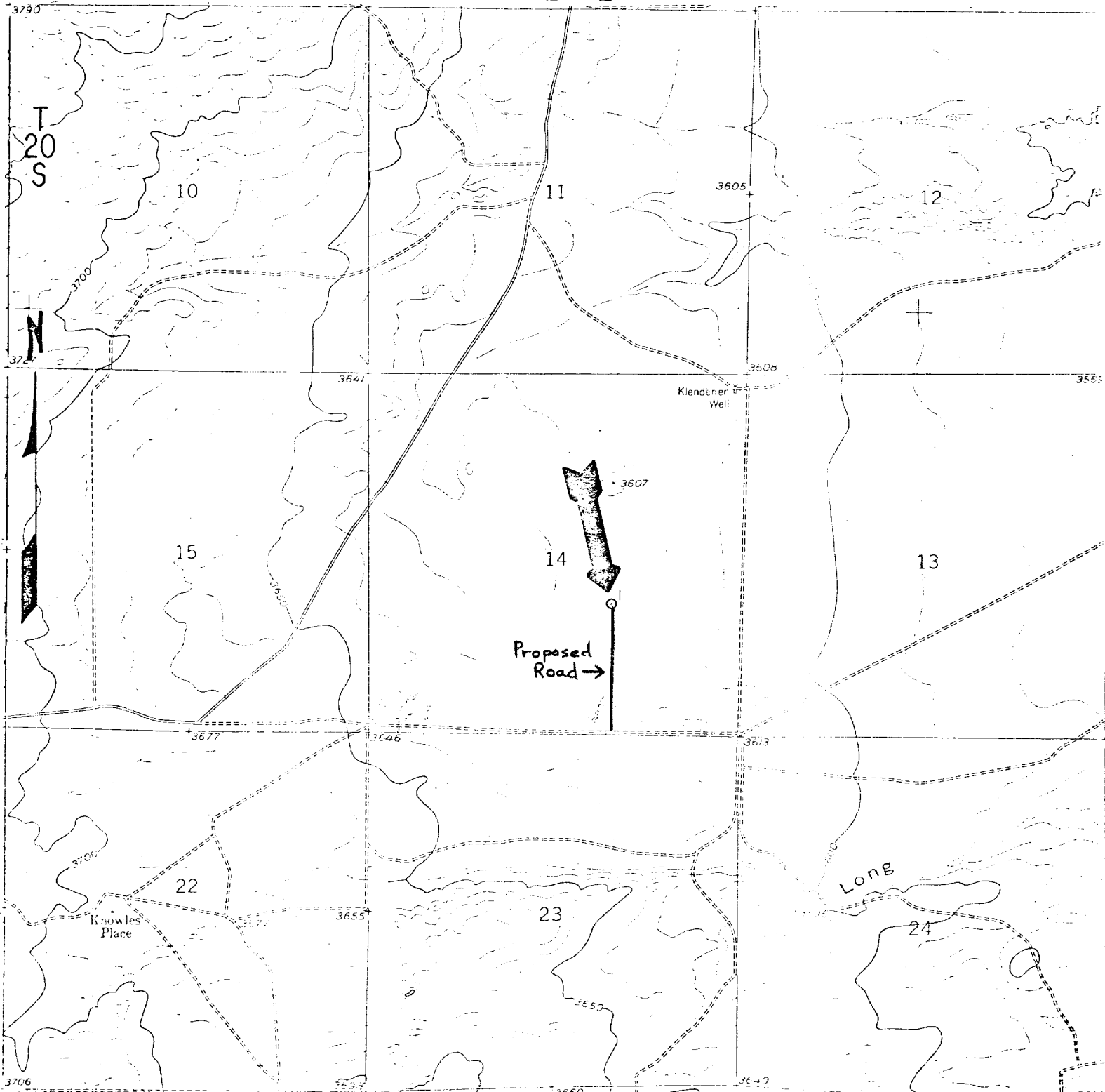
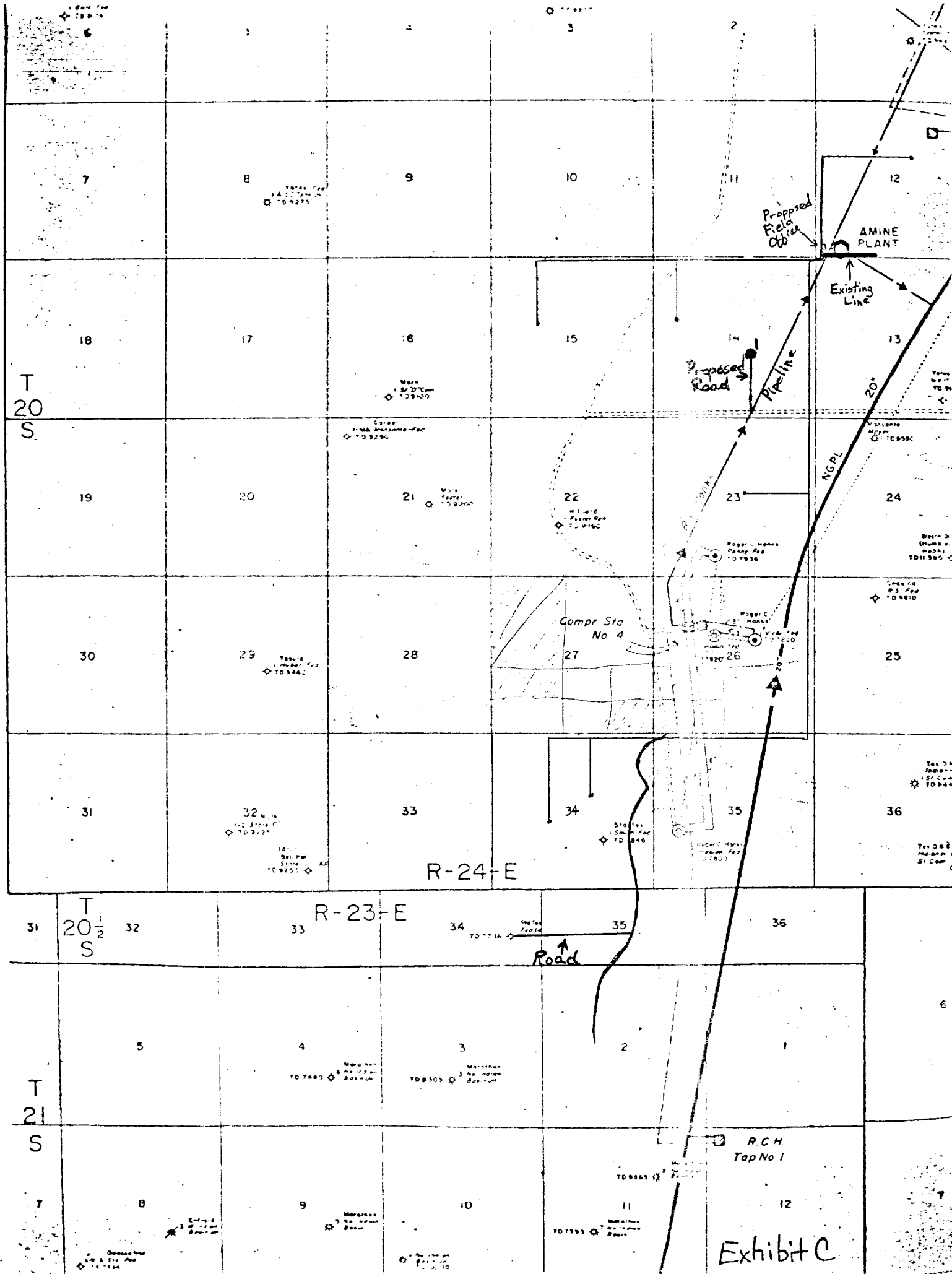
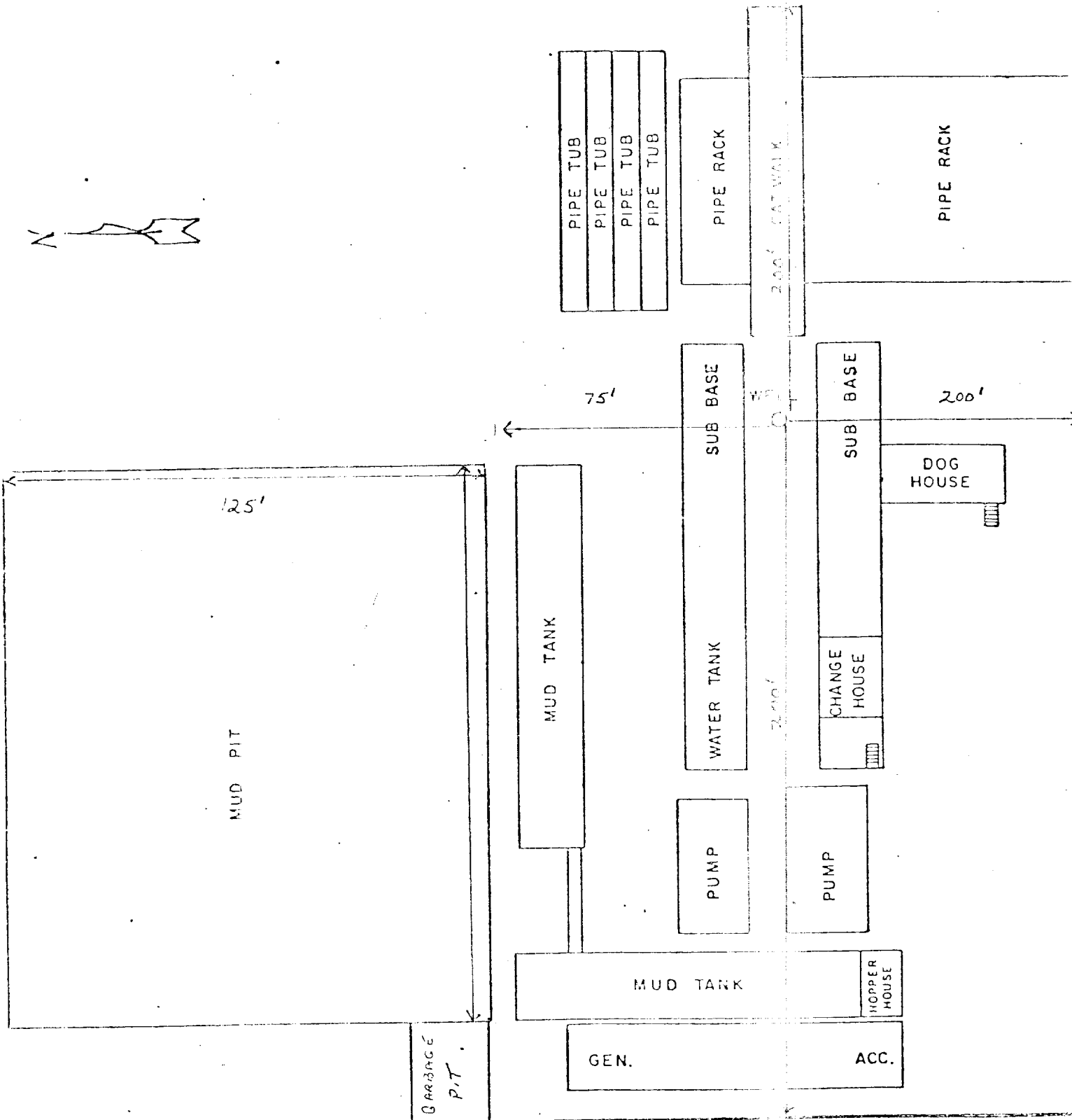


Exhibit B





CONTINENTAL OIL COMPANY
PRODUCTION DEPARTMENT



RIG LAYOUT

Exhibit D

Engineer:

Draftsman:

Date: 1-4-73