

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-005-62365

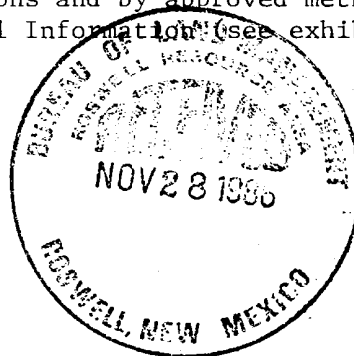
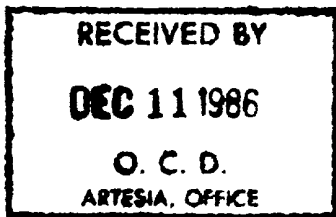
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK		
1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		
2. NAME OF OPERATOR Marathon Oil Company		
3. ADDRESS OF OPERATOR P.O. Box 552 Midland, Texas 79702		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1980' FSL and 1980 FEL Sec 20, T-11-S, R-27-E At proposed prod. zone 1980' FSL and 1980 FEL Sec 20, T-11-s, R-27-E		
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 19 miles east-south-east from Roswell, New Mexico		
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 609.54	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. N/A	19. PROPOSED DEPTH 6800'	20. ROTARY OR CABLE TOOLS Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3702.2' Ground Level		22. APPROX. DATE WORK WILL START* December 2, 1986

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"	48.0#	400'	500 sxs. Circulate
12-1/4"	9-5/8"	32.0#	1250'	400 sxs. Circulate
7-7/8"	5-1/2"	15.5#	6800'	1000 sxs.

Propose to drill no deeper than 6800'.

All casings will be cemented in accordance with regulations and by approved methods.

Blowout preventers will be used as outlined in Additional Information* (see exhibits).



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 <u>Henry L. Lucis</u>	TITLE <u>Dist. Drlg. Supt.</u>	DATE <u>24 November 1986</u>
(This space for Federal or State office use)		
PERMIT NO. _____	APPROVAL DATE _____	
APPROVED BY <u>S/Phil Kirk</u>	TITLE <u>Area Manager</u>	DATE <u>DEC 4 1986</u>
CONDITIONS OF APPROVAL, IF ANY:		

APPROVAL OF THIS APPLICATION DOES NOT WARRANT OR
CERTIFY THAT THE APPLICANT HOLDS LEGAL OR ENTITLED
TITLE TO THOSE RIGHTS IN THE SUBJECT LEASE WHICH WOULD
ENTITLE THE APPLICANT TO CONDUCT OPERATIONS THEREIN
*See Instructions On Reverse Side

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

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 Marathon Oil Company			Lease Park Fed.		Well No. #1
Unit Letter J	Section 20	Township 11 South	Range 27 East	County Chaves	
Actual Footage Location of Well: 1980 feet from the South line and 1980 feet from the East line					
Ground Level Elev. 3702.2	Producing Formation Fusselman	Pool Wildcat Fusselman		Dedicated Acreage: 40 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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.

Terry L. Rivers
Name

Terry L. Rivers

Position

Dist. Drlg. Supt.

Company

Marathon Oil Company

Date

24 November 1986

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.

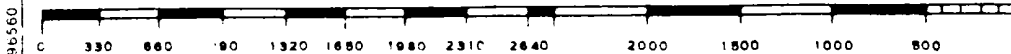
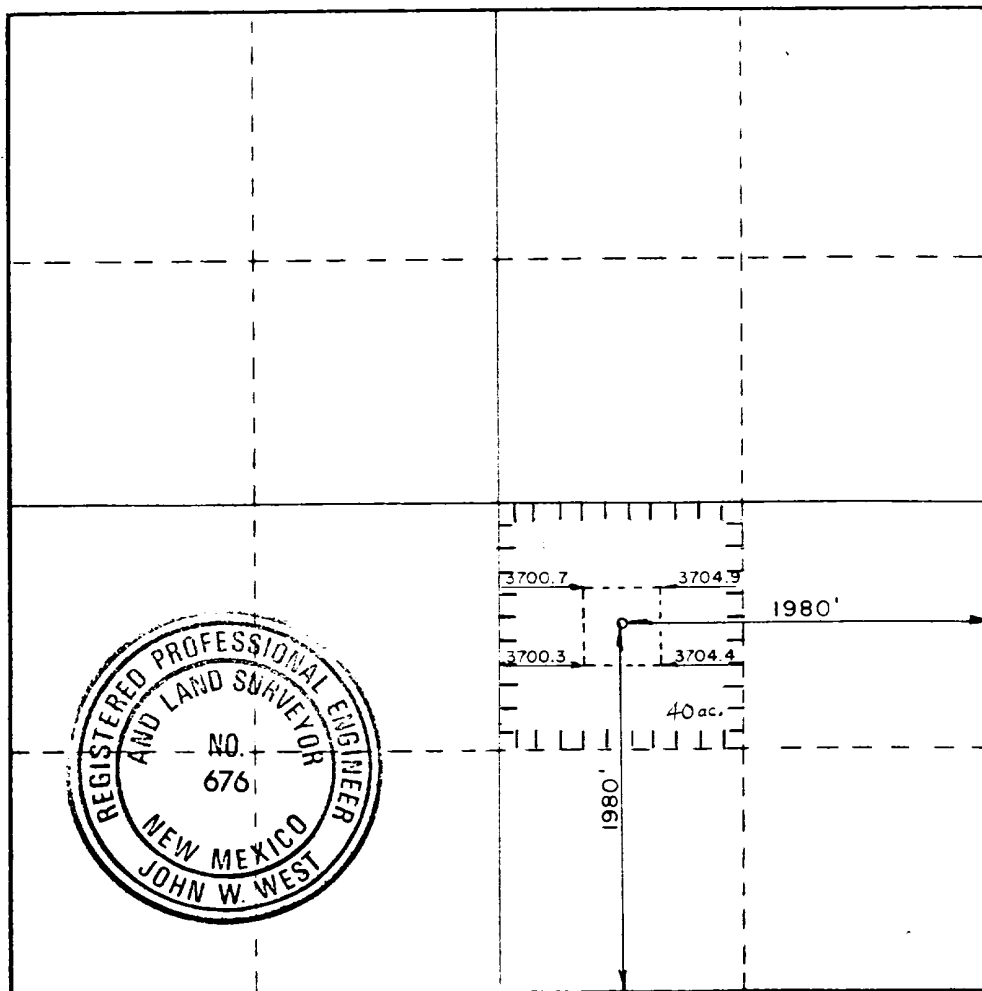
Date Surveyed

November 11, 1986

Registered Professional Engineer
and/or Land Surveyor

John W. West

Certificate No. JOHN W. WEST, 676
RONALD J. EIDSON, 3239



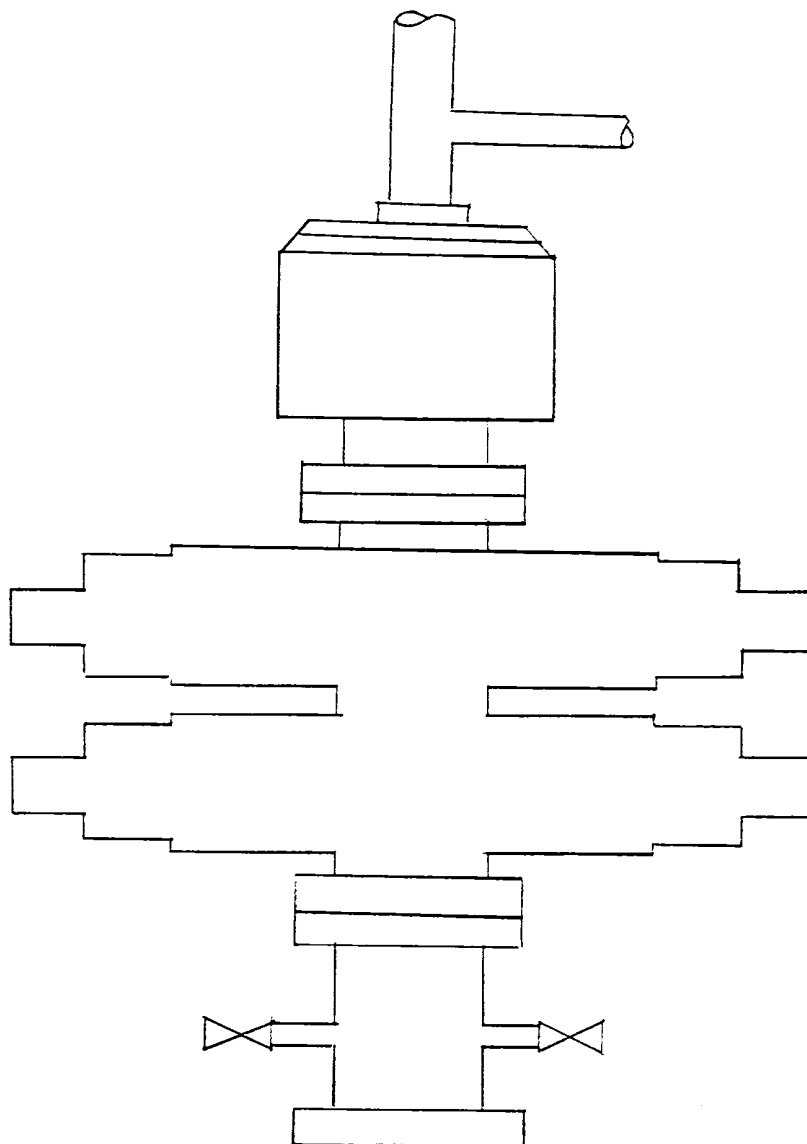


EXHIBIT "A"
BOP STACK ARRANGEMENT
13-3/8" SURFACE CASING

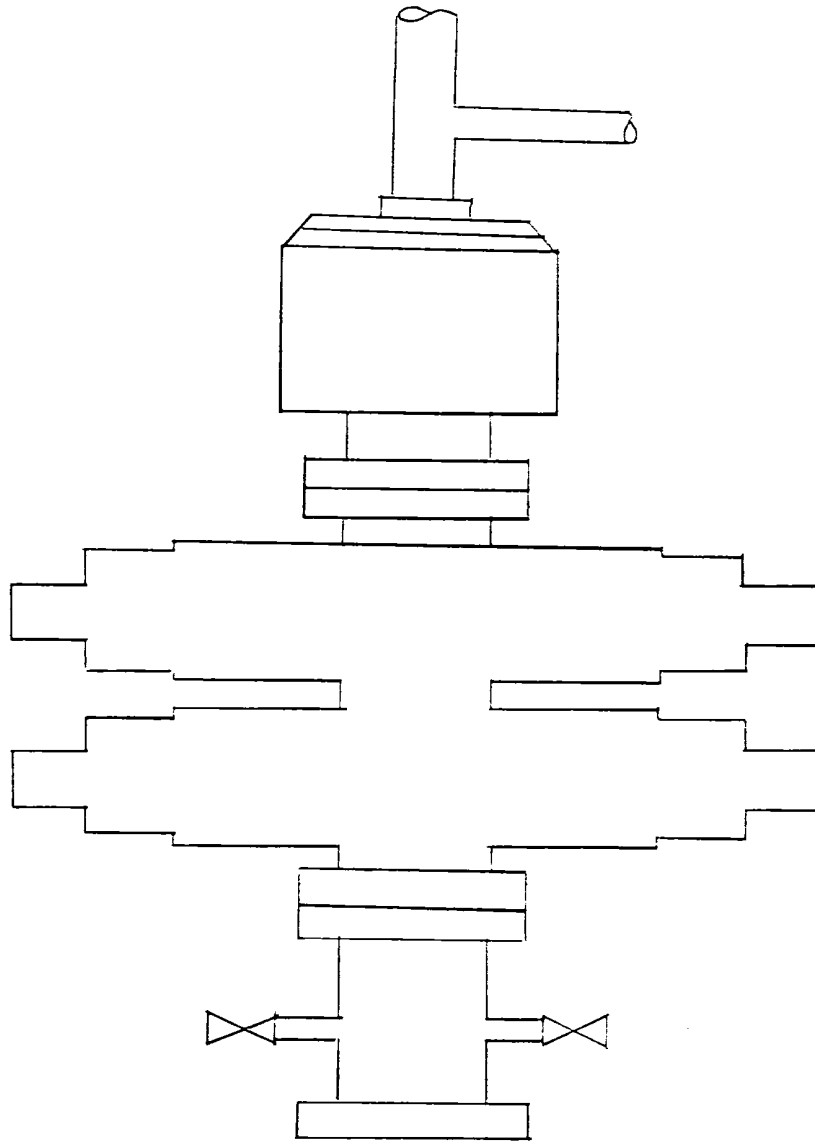


EXHIBIT "B"
BOP STACK ARRANGEMENT
9-5/8" INTERMEDIATE CASING

DRILLING PROGRAM

MARATHON OIL COMPANY

PARK FEDERAL WELL NO. 1

ADDITIONAL INFORMATION

Comply with Order 1

In conjunction with Form 3160-3, Application to drill subject well, Marathon Oil Company submits the following items of information in accordance with BLM requirements:

1. Geologic Name of Surface Formation

Croute Calcaire

2. Estimated Tops of Important Geologic Markers

Yates	100'	Tubb	3850'	Mississippian	6100'
Seven Rivers	200'	Abo	4650'	Silurian	6290'
Queen	640'	Wolfcamp	5350'	Montoya	6400'
San Andres	1150'	3 Brothers	5750'	Ellenburger	6600'
Glorieta	2400'	Cisco	5900'	Granite	6800'

3. Estimated Depths of Anticipated Water, Oil or Gas Bearing Formations

Yates (Water)	100'	Cisco (oil)	5900'
Seven Rivers (Water)	200'	Silurian (oil)	6290'
Queen (oil)	640'	Montoya (oil)	6400'
San Andres (Water)	1150'		
Abo (oil)	4650'		

4. Casing and Cementing Program

13 3/8" Surface to 400': Cement to surface with 500 sx Class "C" with 2% CaCl₂

9 5/8" Intermediate to 1250': Cement to surface with 200 sx Modified Lite followed by 200 sx Class "C"

5 1/2" Prod. casing to 6800': Cement to surface with 500 sx Modified Lite followed by 500 sx Class "H" 50/50 Pozmix

5. Pressure Control Equipment (Exhibits A & B)

13 3/8" Surface: 13 - 5/8" 3000 psi working pressure annular preventor tested to 2000 psi

13 - 5/8" 3000 psi working pressure pipe and blind rams tested to 3000 psi

9 5/8" Intermediate: 11" 3000 psi working pressure annular preventor tested to 2000 psi

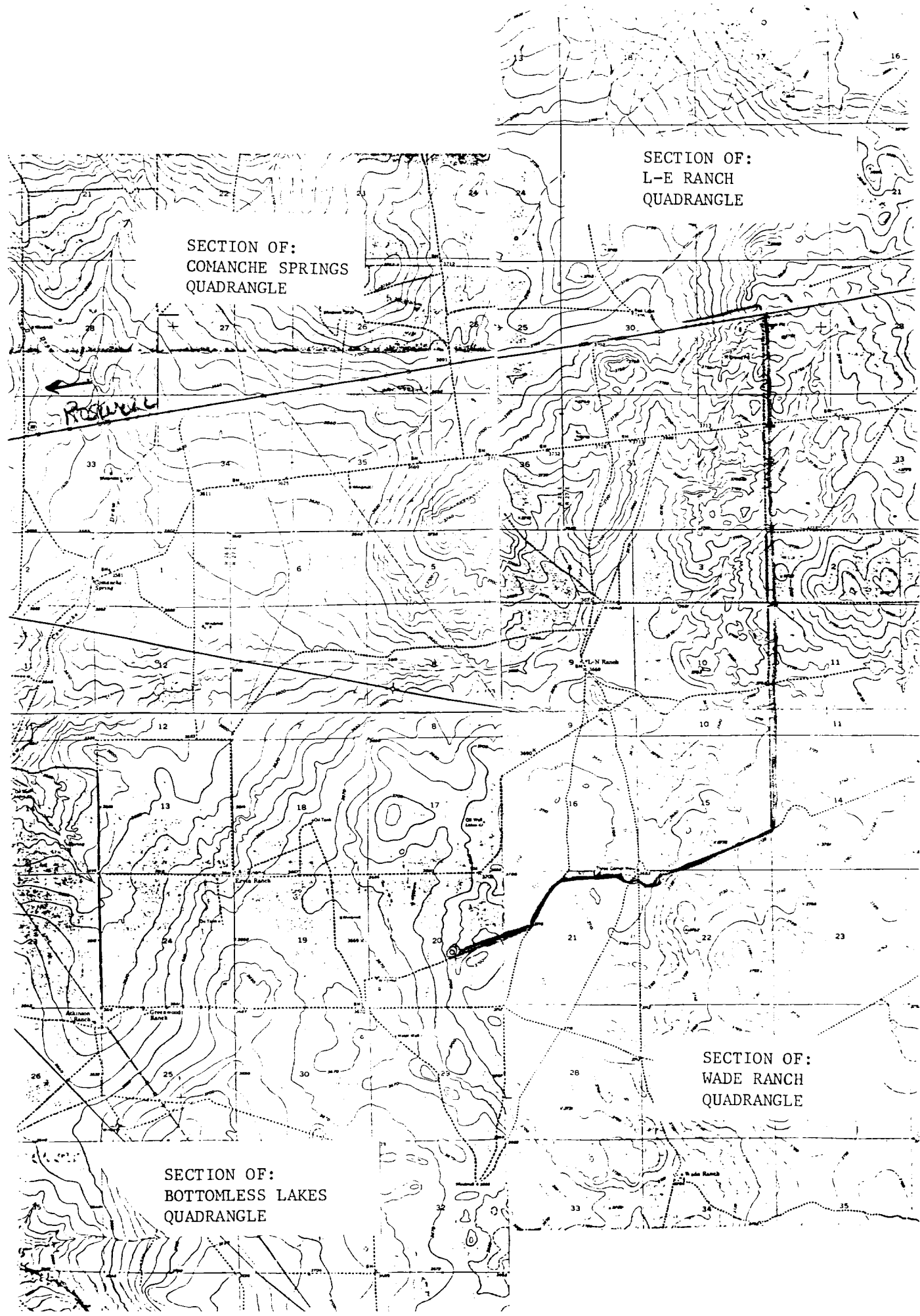
11" 3000 psi working pressure pipe rams and blind rams tested to 3000 psi

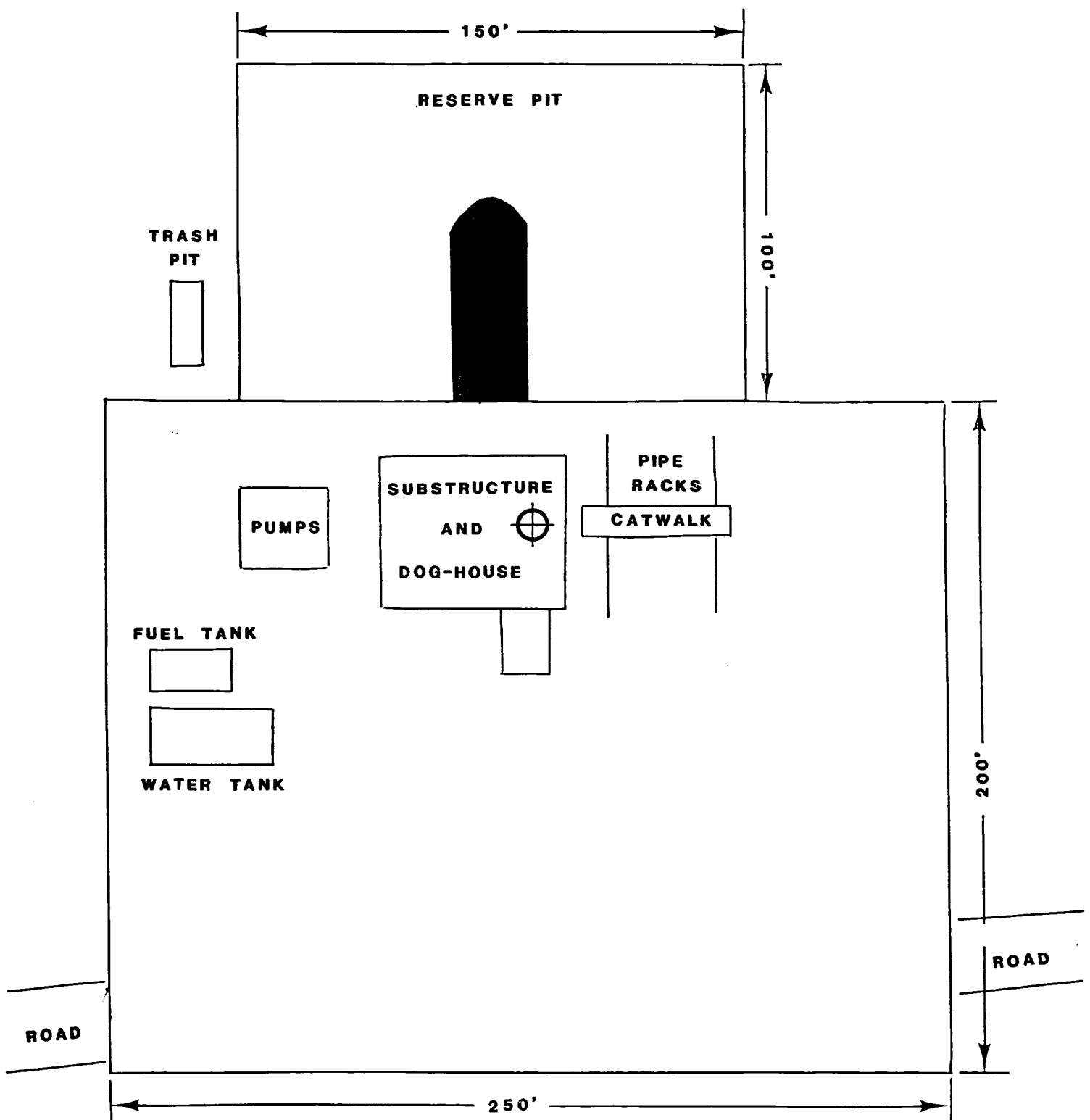
6. Proposed Mud Program

0 - 400	Native; Mud Wt - 8.4, Viscosity 29-32 Sec
400 - 1,250	Brine Water; Mud Wt - 9.0-10.0, Viscosity 30-32 Sec
1,250 - 4,600	Brine Water; Mud Wt - 9.0-9.5, Viscosity 30-32 Sec
4,600 - 6,200	Brine Water Gel; Mud Wt - 9.0-9.5, Viscosity 35-40 Sec.
6,200 - 6,800	Brine Water Gel; Mud Wt - 9.0-9.5, Viscosity 35-45 Sec.

(Water loss 8-10)

EXHIBIT "C"
PROPOSED ROUTE
PARK FEDERAL WELL NO. 1





WELLSITE LAYOUT

PARK FEDERAL WELL NO. 1

EXHIBIT " F "