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NEW MEXICO OIL CONSERVATION COMMISSION

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DEC 21 1973

O. C. C.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL ☒ DEEPEN ☐ PLUG BACK ☐		7. Unit Agreement Name James Ranch Unit	
b. Type of Well OIL WELL ☐ GAS WELL ☒ OTHER ☐		8. Farm or Lease Name James Ranch Unit	
c. Name of Operator Belco Petroleum Corporation		9. Well No. 5	
d. Address of Operator 2000 Wilco Building, Midland, Texas 79701		Undesignated or Wildcat Morrow Gas	
4. Location of Well UNIT LETTER <u>4</u> LOCATED <u>1980'</u> FEET FROM THE <u>South</u> LINE AS <u>660</u> FEET FROM THE <u>West</u> LINE OF SEC. <u>35</u> TWP. <u>22-S</u> RGE. <u>30-E</u> NMPM		12. County Eddy	
19. Proposed Depth 14,500'		19A. Formation Morrow	
20. Rotary or C.T. Rotary		21. Elevations (Show whether DF, RT, etc.) 3296' GR	
21A. Kind & Status Plug. Bond Blanket		21B. Drilling Contractor Unknown	
22. Approx. Date Work will start 1/1/74			

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
20"	16"	94#	600'	650 sx.	Circ.
12-1/4"	10-3/4"	40.5 & 45.5#	3,825'	2100 sx.	Circ.
9-1/2"	7-5/8"	29.7#	12,100'	1900 sx.	Circ.
6-1/2"	5-1/2"	23#	14,500'	1350 sx.	12,100'

Mud Program: Conditioned fresh water from 3825' to 12,100'. Brine or weighted fresh water base mud as required from 12,100' to 14,500'.

BOP Program: As in sketch "A" above 12,100' and as in sketch "B" below 12,100'.

Pit Volume Totalizer will be used below 12,100' with gas separator and degasser, if required.

APPROVAL VALID
FOR 90 DAYS UNLESS
DRILLING COMMENCED,

EXPIRES 3-27-74

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. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Signed Glenn Lope Title District Engineer Date 12/18/73
(This space for State Use)

APPROVED BY W.A. Grasset TITLE OIL AND GAS INSPECTOR DATE DEC 27 1973
CONDITIONS OF APPROVAL, IF ANY:

NEW MEXICO CIVIL INTERVENTION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

NO. 107
JAMES RANCH UNIT

BELCO PETROLEUM CORP.

JAMES RANCH UNIT

5

L 36 22 SOUTH 30 EAST EDDY

1980 SOUTH 660 WEST

3294.3

320

There is a recorded plat of the subject well location and acreage dedication in the public records of the State of New Mexico.

It is the policy of the Commission to require that the well location and acreage dedication be recorded in the public records of the State of New Mexico.

The Commission has received a request from the owner of the subject well location and acreage dedication to record the same in the public records of the State of New Mexico.

James Ranch Unit

XX

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State

Bass Enterprises Prod. 3/4
Perry R. Bass (E-5229) 1/4

Glenn Cope

Glenn Cope

District Engineer

Belco Petroleum Corporation

November 13, 1973



OCTOBER 15, 1973

John A. West

676

Belco Petroleum Corporation

Belco

November 13, 1973

~~United States Geological Survey
Post Office Drawer "U"
Artesia, New Mexico 88210~~

Re: Belco Petroleum Corporation
James Ranch Unit No. 5
1980' FSL & 660' FWL
Section 36, T-22-S, R-30-E
Eddy County, New Mexico

Gentlemen:

1. Existing Roads - Highway 128 is the nearest existing road.
2. Planned Access Roads - It is planned to build a road into the location straight west to the location from the existing caliche road shown on the attached plat.
3. Location of Wells - This is the second Belco Petroleum Corporation well in the area, being a northwest offset to the Belco Petroleum Corporation James Ranch Unit No. 3.
4. Lateral Roads to Well Locations - The roads to the wells are shown on the attached plat.
5. Location of Tank Batteries and Flowlines - In case of production, any tank battery or necessary producing facility would be placed upon the drilling pad.
6. Location and Types of Water Supply - There is no ground water available in the area and water will have to be purchased from a commercial source and trucked to the location.
7. Methods for Handling Waste Disposal - It is planned to build an 8' X 4' X 4' waste pit next to the reserve pit in which to dispose of all waste.
8. Proposed Disposition of Produced Brine Water - Subject well is a gas prospect and no water production is anticipated; however, any produced brine water would be disposed of by hauling to a commercial water disposal well.
9. Disposition of Casinghead Gas - There is a ready market in the area for casinghead gas and the low pressure casinghead gas will be sold.

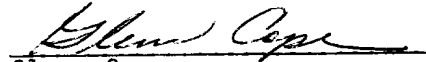
United States Geological Survey
Belco Petroleum Corporation #5 James Ranch Unit
November 13, 1973

Page -2-

10. Location Layout - Attached is a diagram of the location showing the position of the various components of the system.
11. Plans for Restoration of the Surface - In case of a dry hole or upon abandonment of the well, all pits and cellars will be filled and leveled. The location will be leveled as nearly as possible to original top ground contour with all dead men removed, all junk and trash disposed.

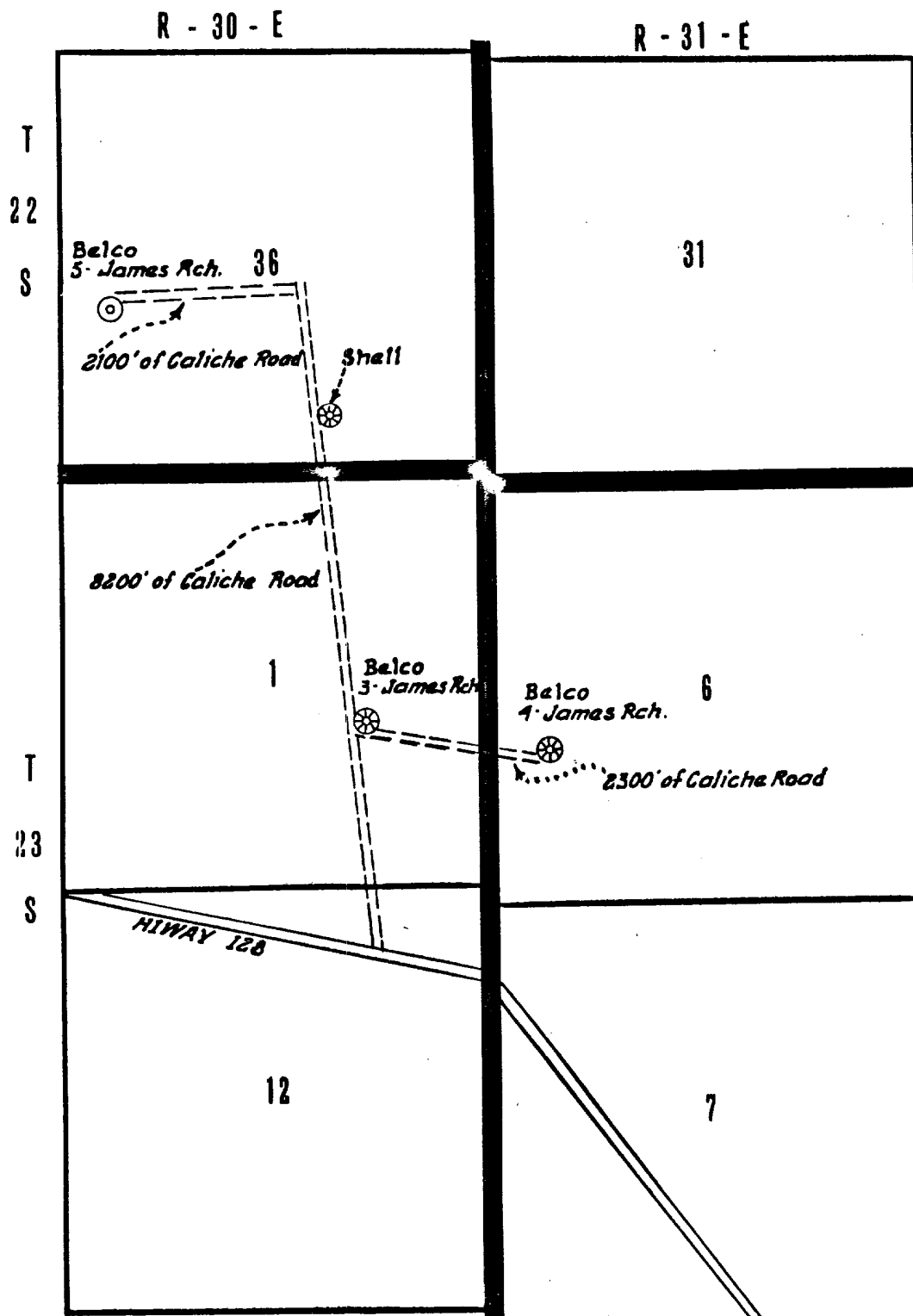
Very truly yours,

BELCO PETROLEUM CORPORATION


Glenn Cope
District Engineer

GC/s1

Attachments

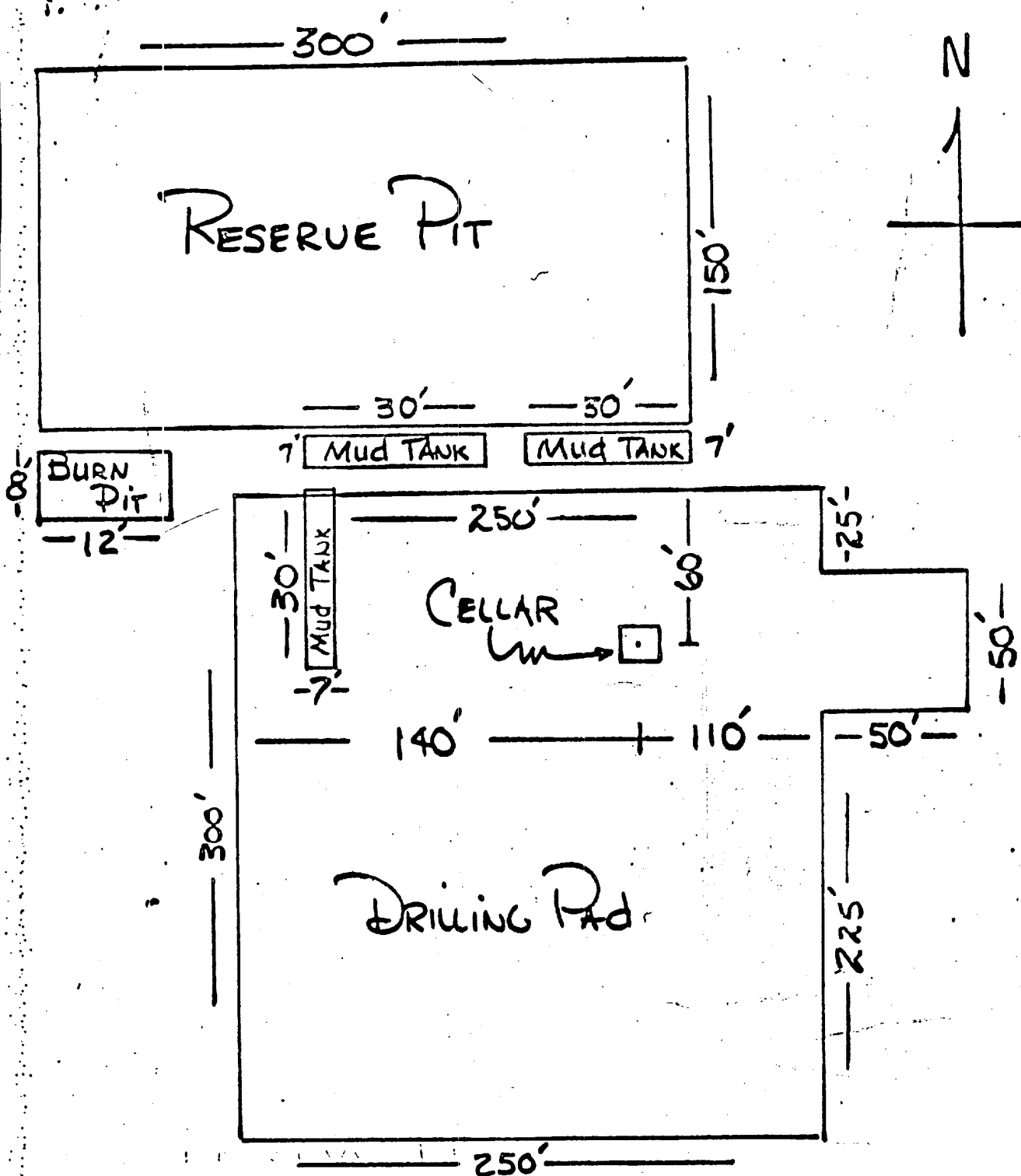


BELCO PETROLEUM CORP.

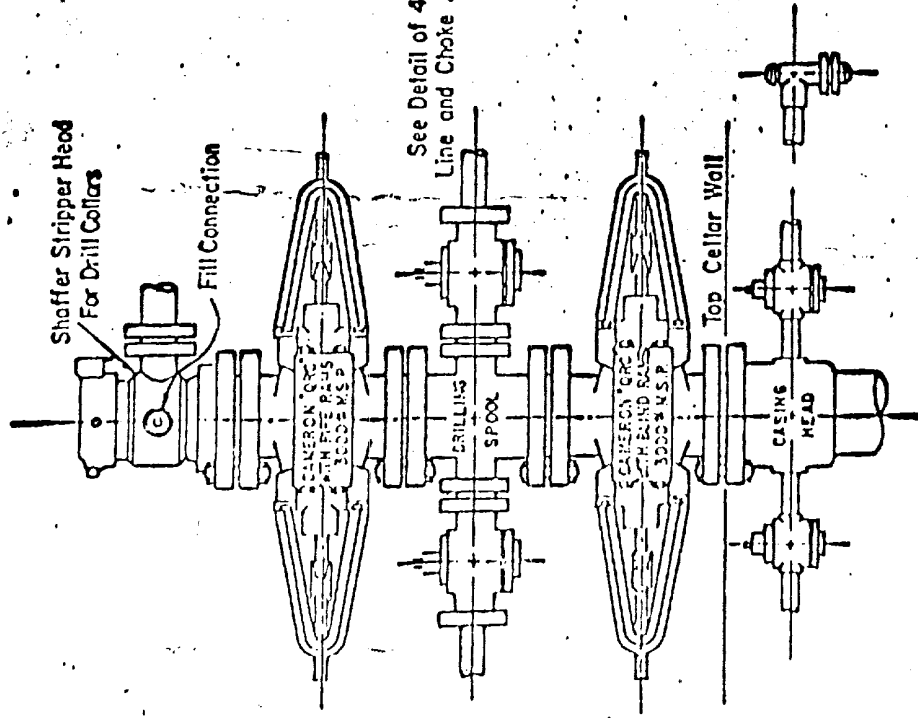
MIDLAND DISTRICT

JAMES RANCH UNIT WELL NO. 5

1980' FSL & 660' FWL of Section 36
T-22-S, R-30-E
Eddy County, New Mexico

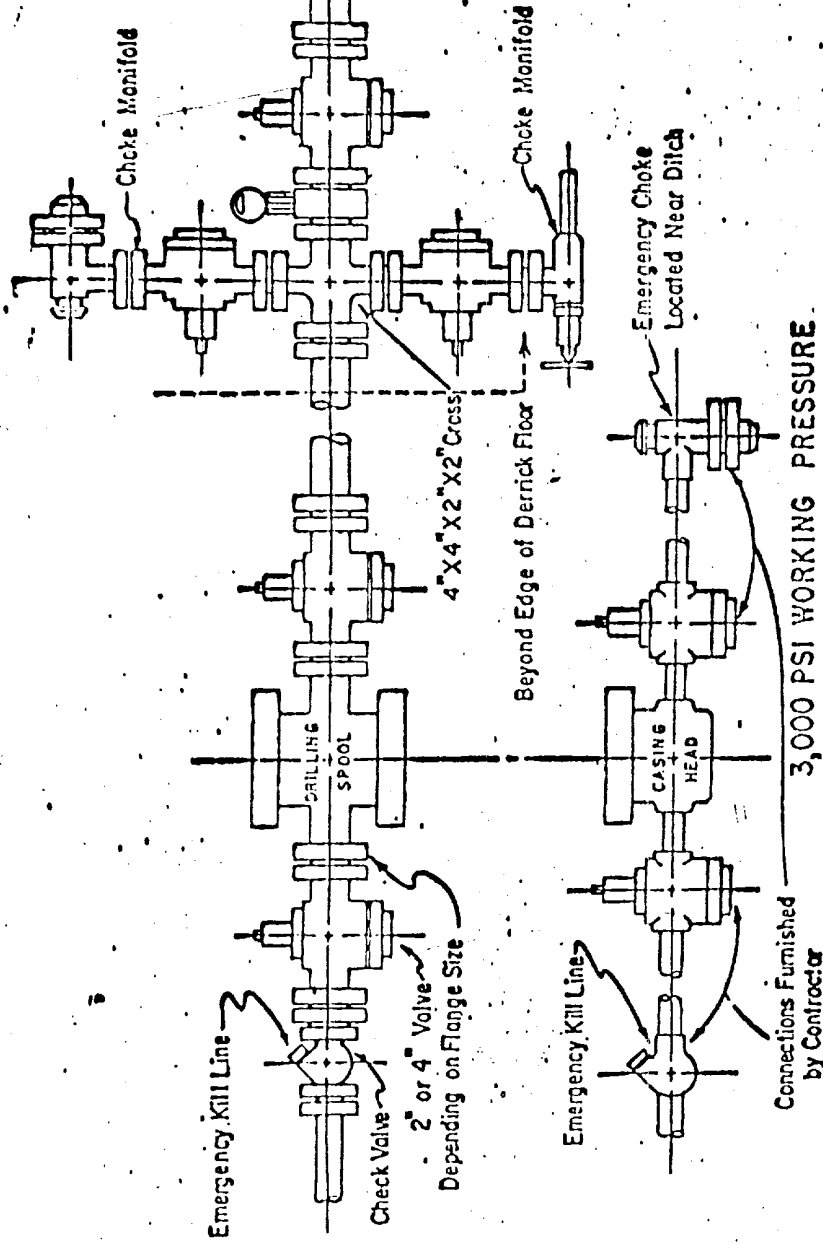


BELCO PET. CO. - NEW DRILLING PAD



3,000 PSI WORKING PRESSURE BLOWOUT PREVENTER HOOK - UP

Series 900 Flanges, or Better



3,000 PSI WORKING PRESSURE KILL, CHOKES, AND FILL CONNECTIONS

API Series 900 Flanges or Better

DETAIL OF 4" FLOW LINE CHOKE ASSEMBLY

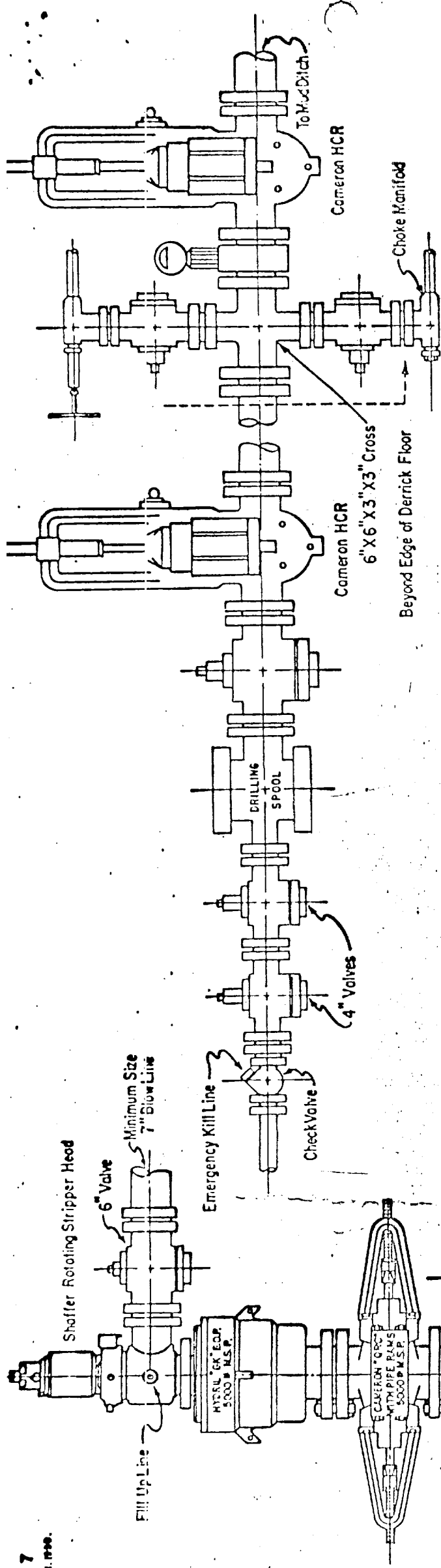
SKETCH A

Minimum assembly for 3000 PSI working pressure will consist of two preventers which may be Cameron QRC, Cameron Type F, single or double, Cameron Space-Saver or Shaffer Hydraulic, single or double. If double preventers are provided, the drilling spool shall be placed below the preventers and the blind rams placed in the upper preventer. With this arrangement it will not be necessary to provide a kill and choke line to Gulf's casinghead housing. In lieu of the drilling spool, the flanged outlets of the double Shaffer, the Space-Saver or double F, if they are the correct size, and provided the preventers may be installed to meet Gulf's requirements, may be used for the four-inch flow line and the two-inch kill line.

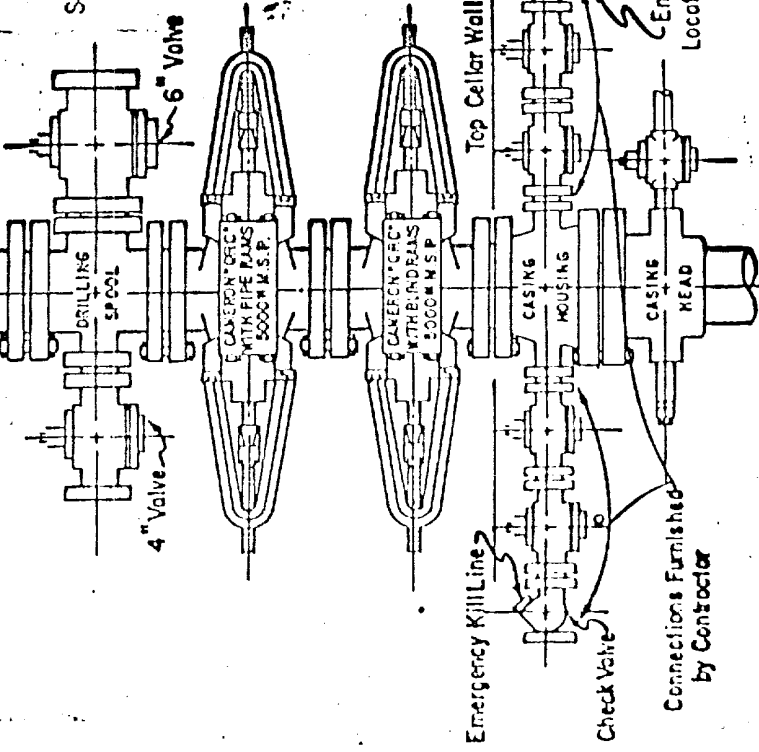
Size 12-inch preventers may be used for work down through 8-5/8-inch casing. Size 10-inch preventers may be used for work down through 7-5/8-inch casing. Size six-inch preventers are to be used for work through 7-inch and 5-1/2-inch casings.

Minimum operating equipment for the preventers will be: (1) An air operated pump and (2) An accumulator (s) with some means of obtaining a fluid charge. A closed fluid system is recommended. The closing manifold and remote closing manifold will have a separate four-way valve for each pressure operated device. Sufficient fluid capacity in the accumulator (s) shall be available to close off the pressure operated devices at the same time with 25 per cent reserve. Gulf No. 551 hydraulic oil shall be used as the operating fluid.

The four-inch flow line from the preventers shall be supported by a metal stand or reinforced concrete. All valves throughout the assembly shall be selected for operation in both gas and fluids. Sufficient substructure height is to be provided in the event Gulf should request installation of a rotating type blow-out preventer. The preventers will be provided with stem extensions, universal joints, if needed, and operating wheels.



See Detail of 6" Flow Line and Choke Assembly



AIR-GAS-MIST DRILLING 5,000 PSI WORKING PRESSURE KILL, CHOKE, AND FILL CONNECTIONS

See Fig. 18

API Series 1500 Flanges or Better

DETAIL OF 6" FLOW LINE CHOKE ASSEMBLY

Minimum assembly for 5000 PSI working pressure will consist of four preventers and a Shaffer Combination Rotating Stripper Head. The two lower preventers may be Cameron QRC, Cameron Type F, single or double, or Shaffer hydraulic, single or double. The preventer above the drilling spool may be Cameron QRC or Cameron Type F and the upper preventer below the Shaffer Rotating Stripper Head will be Hydril GK.

Size 12-inch preventers may be used for work down through 8-5/8-inch casing. Size 10-inch preventers may be used for work down through 7-5/8-inch casing. Size 6-inch preventers, with a 4-inch or larger flow line choke assembly as shown above, are to be used for work through 7-inch and 5-1/2-inch casings.

Minimum operating equipment for the preventers will be: (1) an air operated pump and (2) an accumulator (s) with some means of obtaining a fluid charge. A closed fluid system is recommended. The closing manifold and remote closing manifold will have a separate four-way valve for each pressure operated device and a Hydril regulator will be provided. Sufficient fluid capacity in the accumulator (s) shall be available to close all the pressure operated devices at the same time with 25 per cent reserve. Gulf No. 561 hydraulic oil shall be used as the operating fluid.

The six-inch flow line shall be supported by a metal stand or reinforced concrete. All valves throughout the assembly shall be selected for operation in both gas and fluids.

The ram type preventers and the Cameron HCR valves will be provided with stem extensions, universal joints, if needed, and operating wheels.

AIR-GAS-MIST DRILLING 5,000 PSI WORKING PRESSURE BLOWOUT PREVENTER HOOK-UP

Series 1500 Flanges, or Better

14-inch 5000 PSI W.P. Flanges