

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-015-21359

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. TYPE OF WORK
DRILL ☒ DEEPEN ☐ PLUG BACK ☐

2. TYPE OF WELL
OIL ☐ GAS ☒ OTHER ☐ SINGLE ZONE ☐ MULTIPLE ZONE ☐

3. NAME OF OPERATOR
The Petroleum Corporation of Delaware ✓

4. ADDRESS OF OPERATOR
3303 Lee Parkway, Dallas, Texas 75219

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
At surface
660 ft. from South Line & 1980 ft. from East Line
At proposed prod. zone
Strawn, Atoka, Morrow

6. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE
15 miles northeast of Carlsbad, New Mexico

7. LEASE DESIGNATION AND SERIAL NO.
0144698

8. INDIAN, ALLOTTEE OR TRIBE NAME
Russell Morrow

9. UNIT AGREEMENT NAME
Sec. 5, T-20-S, R-29-E

10. FARM OR LEASE NAME
Eddy

11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA
New Mexico

12. COUNTY OR PARISH
Eddy

13. STATE
New Mexico

14. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest dng. unit line, if any)
660

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR ABANDONED, ON THIS LEASE, FT.
2,400 ft.

16. NO. OF ACRES IN PROPOSED WELL
1,744

17. NO. OF ACRES ASSIGNED TO THIS WELL
320 (S/2 Sec. 5)

18. PROPOSED DEPTH
11,800 ft.

19. ROTARY OR CABLE TOOLS
Rotary

20. APPROX. DATE WORK WILL START

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PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
15"	12 3/4"	42#	600-350	circulate
12 1/2"	8 5/8"	24#	3,100	circulate with D. V. tool
7 7/8"	5 1/2"	17 and 20#	11,500	500 sx

Double ram blowout preventors will be used from 600 feet to total depth along with appropriate choke manifold. BOP's will be pressure tested prior to drilling into the Wolfcamp formation. Mud system monitoring equipment will be installed from 3,100 feet to total depth.

11 3/4" - 12 3/4" OD Foster 31# (Liner Pipe) 219 wall - 10-12.31

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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.

SIGNED John P. Rullo TITLE Petroleum Engineer DATE August 27, 1974

(This space for local or State office use)

APPROVED
SEP 11 1974
COMMISSIONER
ACTING DISTRICT ENGINEER

SUBJECT TO ATTACHED DEEP WELL CONTROL REQUIREMENTS DATED JUN 22 1973

THIS APPROVAL IS RESCINDED IF OPERATIONS ARE NOT COMMENCED WITHIN 3 MONTHS.
EXPIRES DEC 11 1974

DECLARED WATER BASIN

See Instructions On Reverse Side
Casing Must Be Circulated

NOTIFY USGS IN SUFFICIENT TIME TO WITNESS CEMENTING THE CASING.

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 located by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to re-drill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate variations. 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.

ROSWELL OFFICE COPY
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

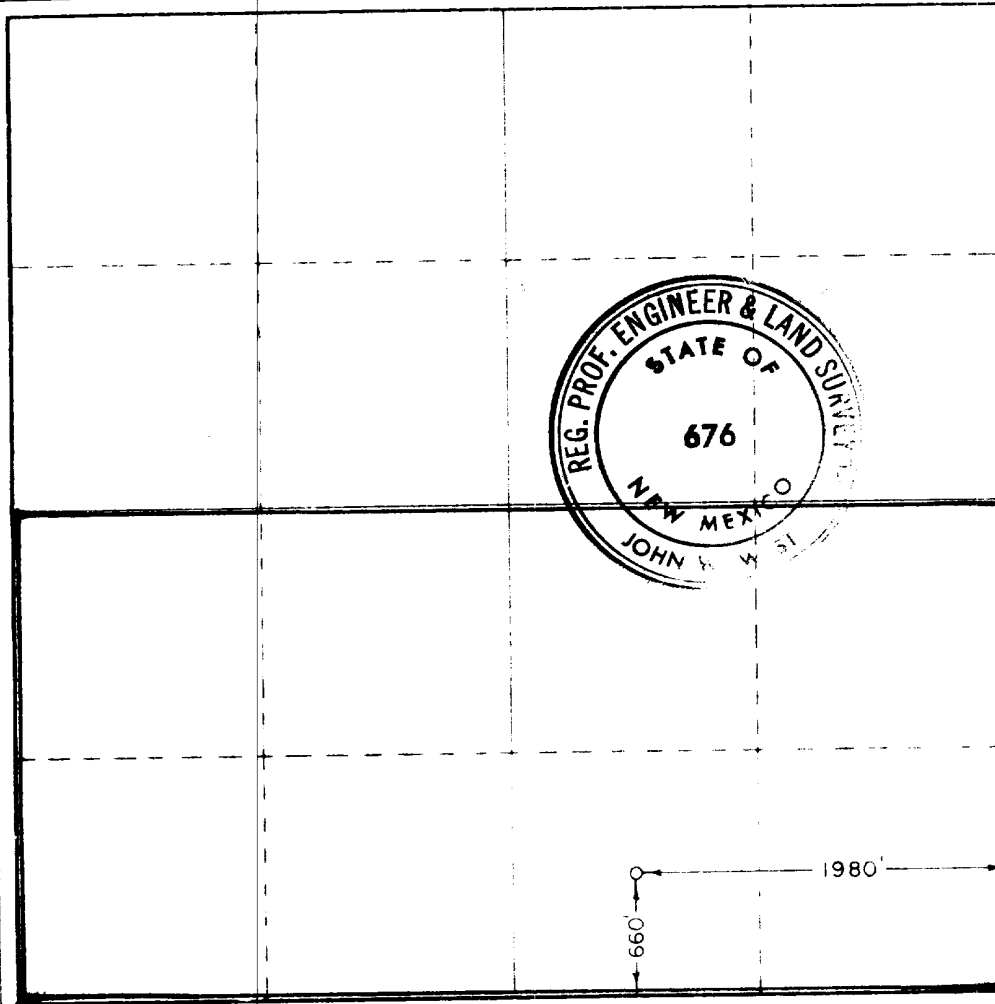
Operator PETROLEUM CORP. OF DELEWARE			Lease SUPERIOR FEDERAL		Well No. 4
Initial letter O	Section 5	Township 20 SOUTH	Range 29 EAST	County EDDY	
Actual Surface Location of Well: 1980 feet from the EAST line and 660 feet from the SOUTH line					
Ground Level Elev. 3283.9'	Producing Formation MORROW		Block RUSSELL	Dedicated Acreage 320	

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.

John Pulte

John Pulte

Petroleum Engineer

Petroleum Corp. of Delaware

August 27, 1974

I hereby certify that the well location shown on this plat was obtained 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.

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ARTESIA, NEW MEXICO

AUGUST 25, 1974

Registered Professional Engineer
 State of New Mexico

John W. West

676

THE PETROLEUM CORPORATION

3303 Lee Parkway
DALLAS, TEXAS 75219

August 27, 1974

Geological Survey
U. S. Department of Interior
P. O. Drawer U
Artesia, New Mexico 88210

Attn.: Mr. Robert L. Beckman
Acting District Engineer

Re.: Request for Permit to Drill
Superior Federal Well No. 4
Section 5, T-20-S, R-29-E
Eddy County, New Mexico

Gentlemen:

We are enclosing six (6) copies of Form 9-331C and Form C-102 requesting a drilling permit for the Superior Federal Well No. 4. A topographic map of the area shows where we proposed to build a road into the location.

We are also enclosing six (6) copies of a sketch of the Blow-Out Preventors and Choke Manifold to be used while drilling this well, along with a Drilling Mud Program. A sketch of the location shows the position of the various pieces of equipment, size of the caliche pad, and location of the reserve pit.

In accordance with your directive of May 9, 1972, the following answers to the twelve (12) parts of the development plan:

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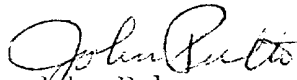
1. Existing Roads: Please refer to the topographic map.
2. Planned Access Roads: Please refer to the topographic map.
3. Location of Wells: Please refer to the topographic map.
4. Lateral Roads to Well Locations: Please refer to the topographic map.
5. Location of Tank Batteries and Flowlines: Currently there are none on this lease. If a well is completed, all production facilities will be installed on the location site and the oil trucked to market.

6. Locations and Types of Water Supply: There is no fresh water that we are aware of on this lease. All water required for drilling and production will be trucked to the location.
7. Methods for Handling Waste Disposal: The drill cuttings will be placed in a reserve pit to dry, then leveled with a bulldozer after completing drilling operations.
8. Location of Camps: There will be none.
9. Location of Airstrips: There will be none.
10. Location of Layout: A rotary rig will require a location pad of approximately 300 feet by 300 feet square with the well in the middle.
11. Plans for Restoration of the Surface: All debris will be removed and the location leveled after completion of the drilling operations.
12. Additional Information: None.

We would appreciate your early approval of this permit as we have certain time limits we would like to fulfill. Please call collect if we can be of assistance, as we would like to spud by September 15, 1974.

Very truly yours,

THE PETROLEUM CORPORATION
OF DELEWARE


John Pulte

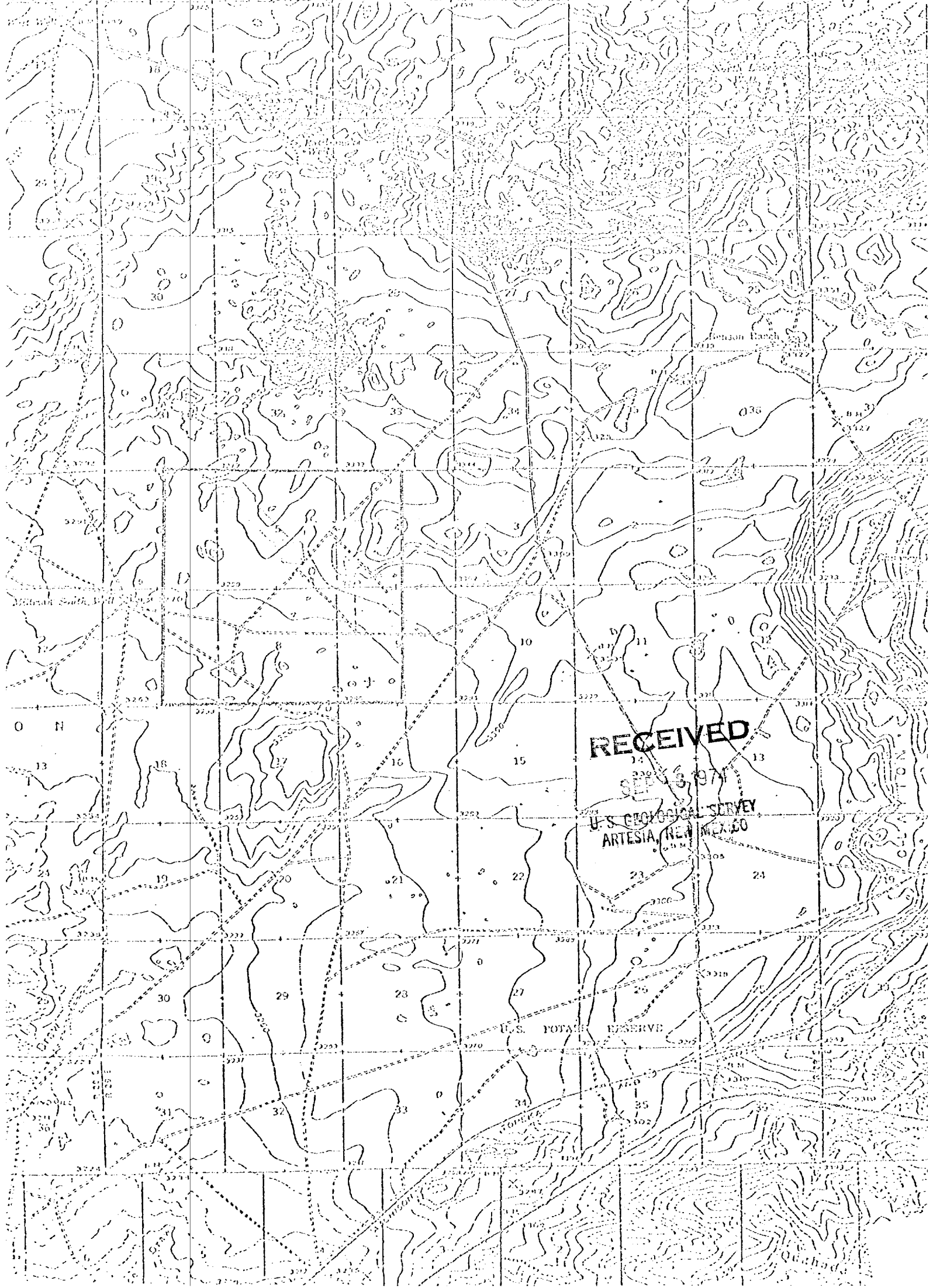
JP/jp
Encls.

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ARTESIA, NEW MEXICO

The Petroleum Corporation of Delaware
Superior Federal Well No. 4
660 ft. FWL, 1980 ft. FWL
Sec. 5, T-20-S, R-29-E
Eddy County, New Mexico



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SEP 13 1971
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U.S. POTASH RESERVE

Quahada

THE PETROLEUM CORPORATION

3303 Lee Parkway
DALLAS, TEXAS 75219

Superior Federal Well No. 4
SE/4 of Section 5, T-20-S, R-29-E
Eddy County, New Mexico

PROPOSED DRILLING FLUIDS PROGRAM

August 27, 1974

DEPTH	DRILLING FLUIDS
Surface to 600 feet	Spud mud with fresh water gel and lime; 9.2#/gal.; 32 viscosity
Run 12 3/4-inch casing 600 feet to 3,100 feet	Brine water with salt gel and loss circulation material as required; 9.5#/gal.; 30 to 34 viscosity
Run 8 5/8-inch casing 3,100 feet to 9,000 feet	Fresh water; 8.5#/gal.; 28 viscosity
9,000 feet to 10,000 feet	Brine water; 10#/gal.; 28 viscosity
10,000 feet to 11,800 feet	Brine water with XC polymer; 10 to 10.5#/gal.; 30 to 35 viscosity

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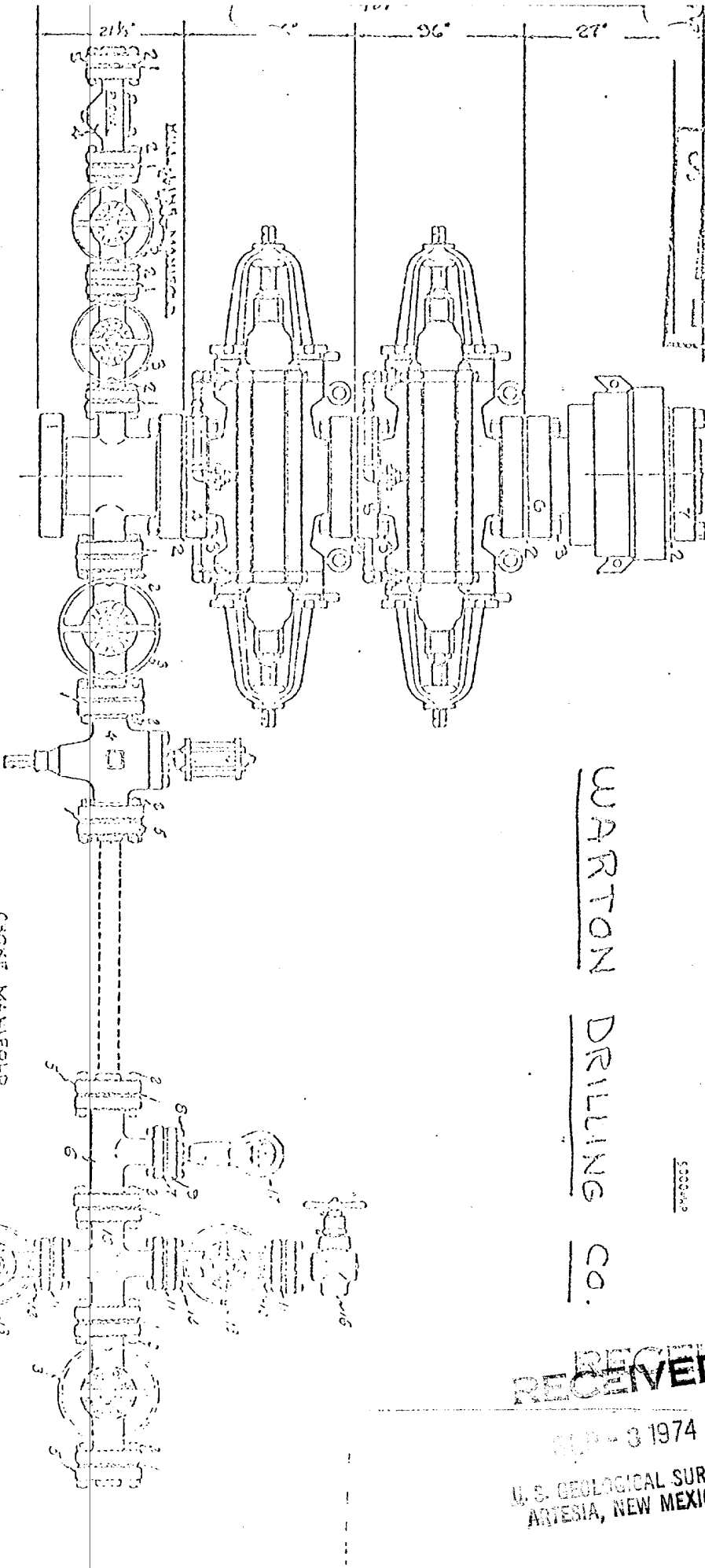
Sales - Quotation Dept.
FILE COPY
 DO NOT REMOVE

- 1 - GK Hydrail; 10"; 1500 series; 5,000 lbs. W.P.
- 1 - Type F; Cameron; 10"; 1500 series; 5,000 lbs. W.P.; double B.O.P.
- Choke Manifold; 4 1/2"; 1500 series; 5,000 lbs. W.P.; w/Cameron hydraulic valve.
- 1 - Positive; 1 - Adjustable choke
- 1 - Koomey Accumulator; 7 Station w/remote control stand; 3,000 lbs. P.S.I.
- 1 - 12"; 900 series; 3,000 lbs. P.S.I.; double Snaffer B.O.P.; to be used for drilling intermediate hole

WARTON DRILLING CO.

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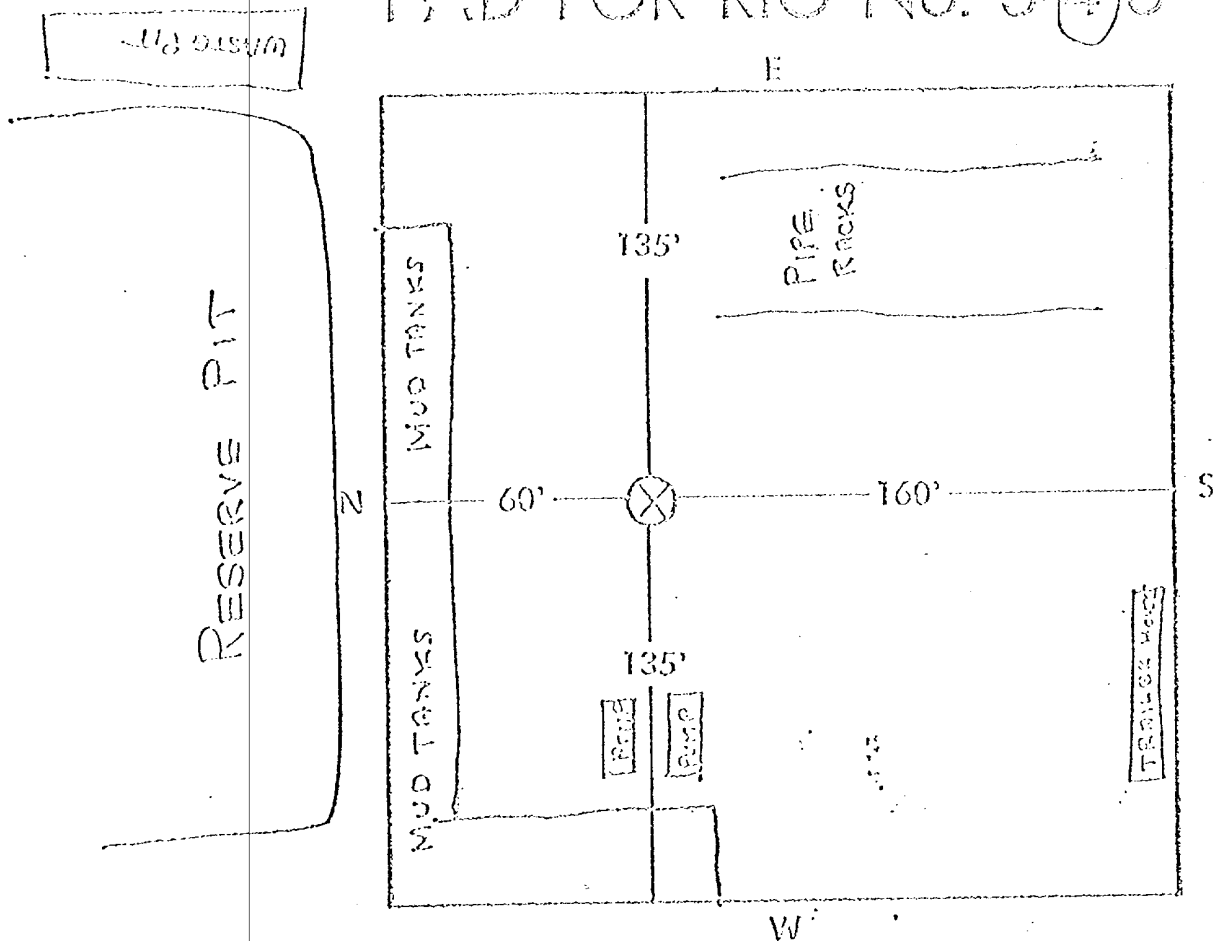
SEP - 3 1974
 U.S. GEOLOGICAL SURVEY
 ARTESIA, NEW MEXICO



CHOKE MANIFOLD
 4 1/2" 5,000 lbs.

900 Series
 10" 5,000 lbs.

WARTON DRILLING Co.
 P.L.D FOR RIG No. 3-4-6



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U.S. GEOLOGICAL SURVEY
 WASHINGTON, D.C.