

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

SEP 10 1973

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

The Petroleum Corporation

O. C. C.

3. ADDRESS OF OPERATOR

3303 Lee Parkway, Dallas, Texas 75219

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

At surface Unit Letter G, 1980 from North Line & 1980 from

Fast Line

Strawn, Atoka and Morrow

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

17 miles northeast of Carlsbad, New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

1980 feet

16. NO. OF ACRES IN LEASE

1560

17. NO. OF ACRES ASSIGNED

TO THIS WELL

40 320

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

--

19. PROPOSED DEPTH

11,600 feet

20. ROTARY OR CABLE TOOLS

Rotary

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

GL 3298

22. APPROX. DATE WORK WILL START*

September 1, 1973

23.

PROPOSED CASING AND CEMENTING PROGRAM

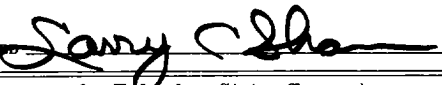
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
15"	11 3/4"	42	600	circulate
11"	8 5/8"	24 and 32	4200	circulate with D. V. tool
7 7/8"	5 1/2"	17 and 20	11,500	500 sx

Double ram blowout preventors will be
used from 600 feet to total depth along
with appropriate choke manifold.

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

Petroleum Engineer

DATE

August 24, 1973

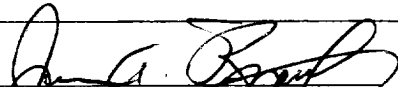
(This space for Federal or State office use)

AUG 31 1973

PERMIT NO.

APPROVAL DATE

APPROVED BY



TITLE

DISTRICT ENGINEER

DATE

AUG 31 1973

CONDITIONS OF APPROVAL, IF ANY:

Deep Well Control Requirements

THIS APPROVAL IS RESCINDED IF OPERATIONS
ARE NOT COMMENCED WITHIN 3 MONTHS

*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.

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NOV 19 1963

U.S. DEPT. OF THE INTERIOR

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.

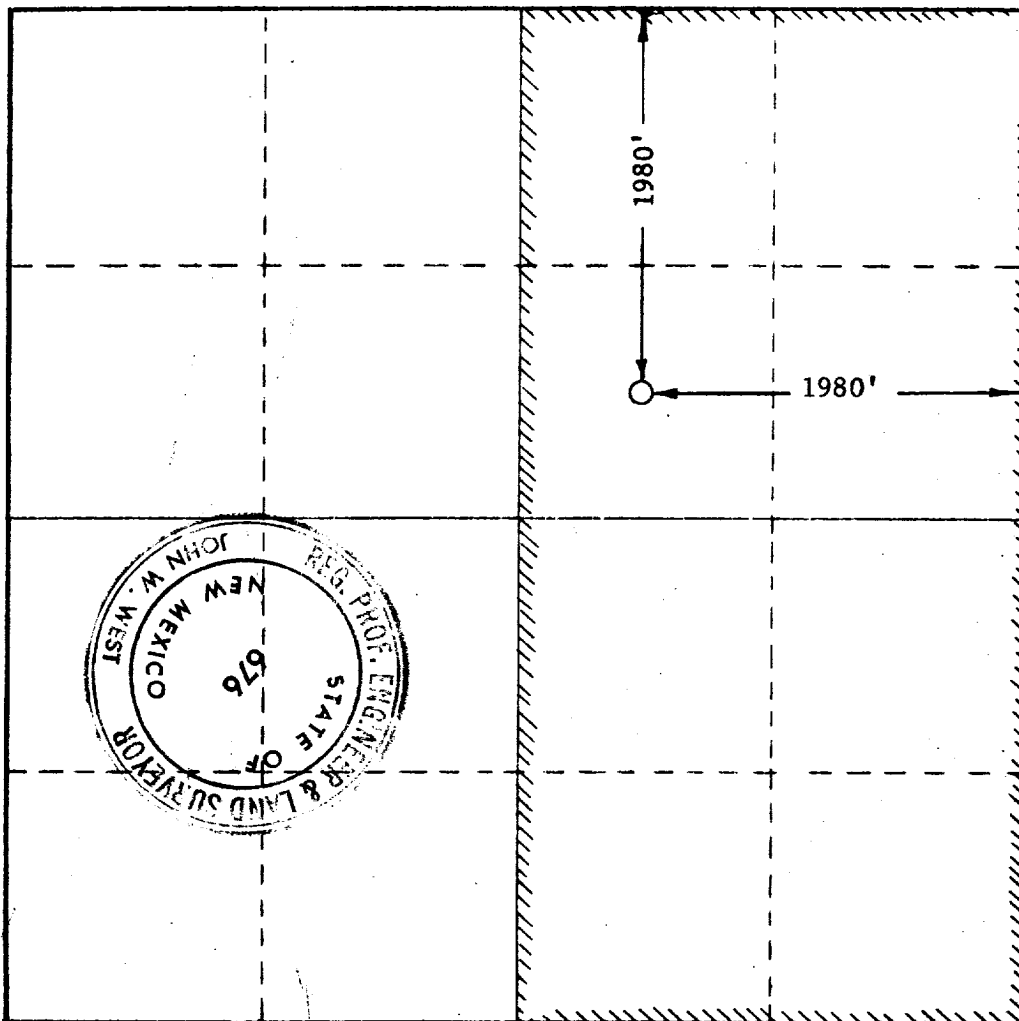
Operator THE PETROLEUM CORPORATION			Lease SUN FEDERAL		Well No. 1
Unit Letter G	Section 33	Township 19 SOUTH	Range 29 EAST	County EDDY	
Actual Footage Location of Well: 1980 feet from the NORTH line and 1980 feet from the EAST line					
Ground Level Elev. 3298.4'	Producing Formation MORROW	Pool <i>Wildcat</i> UNDESIGNATED		Dedicated Acreage: E 320 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.

Name *John W. West*
Position
AGENT

Company
THE PETROLEUM CORPORATION

Date
AUGUST 24, 1973

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AUG 27 1973
I hereby certify that the information shown on this plat is plotted from field notes and 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.

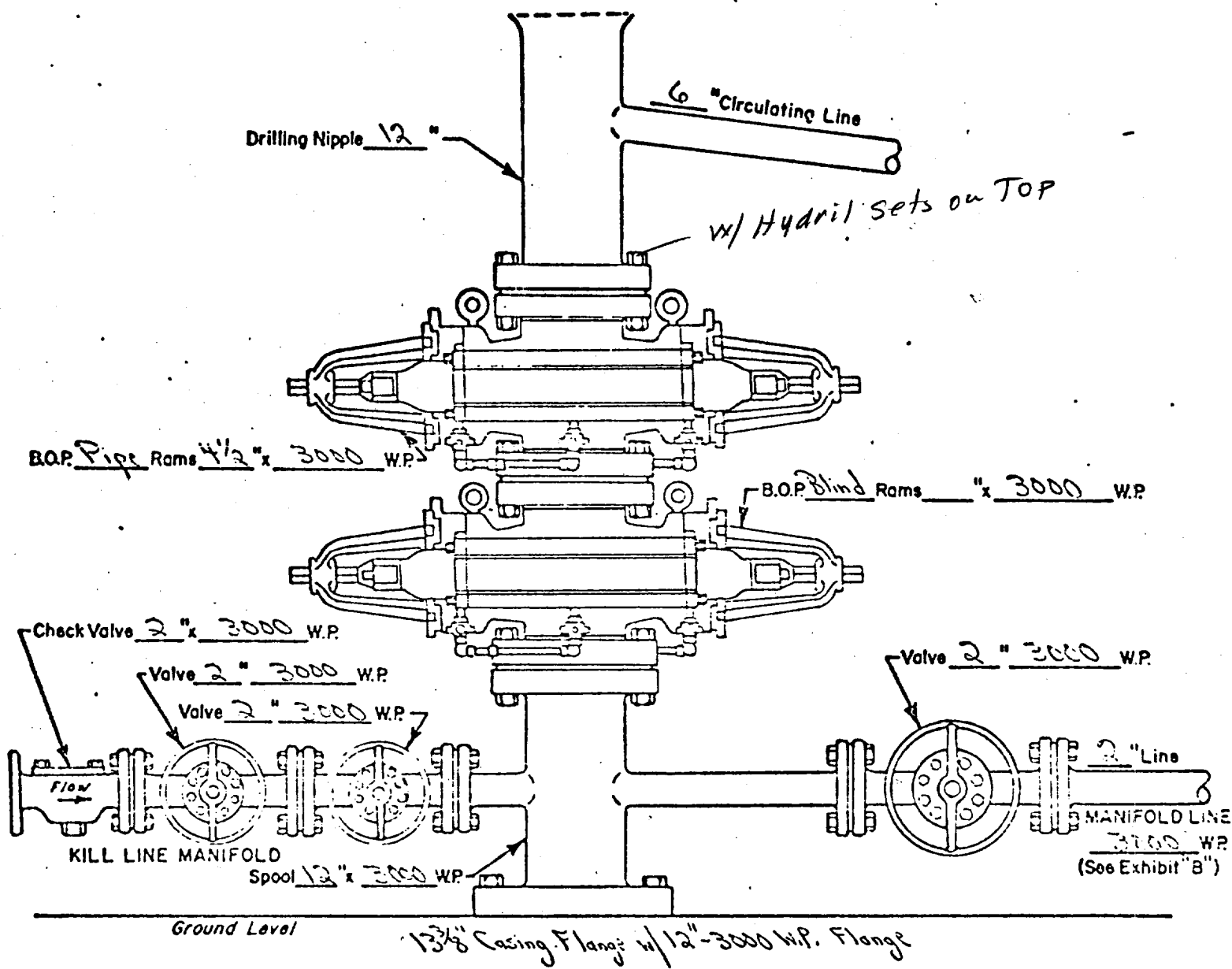
Date Surveyed
AUGUST 21, 1973

Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No. **676**

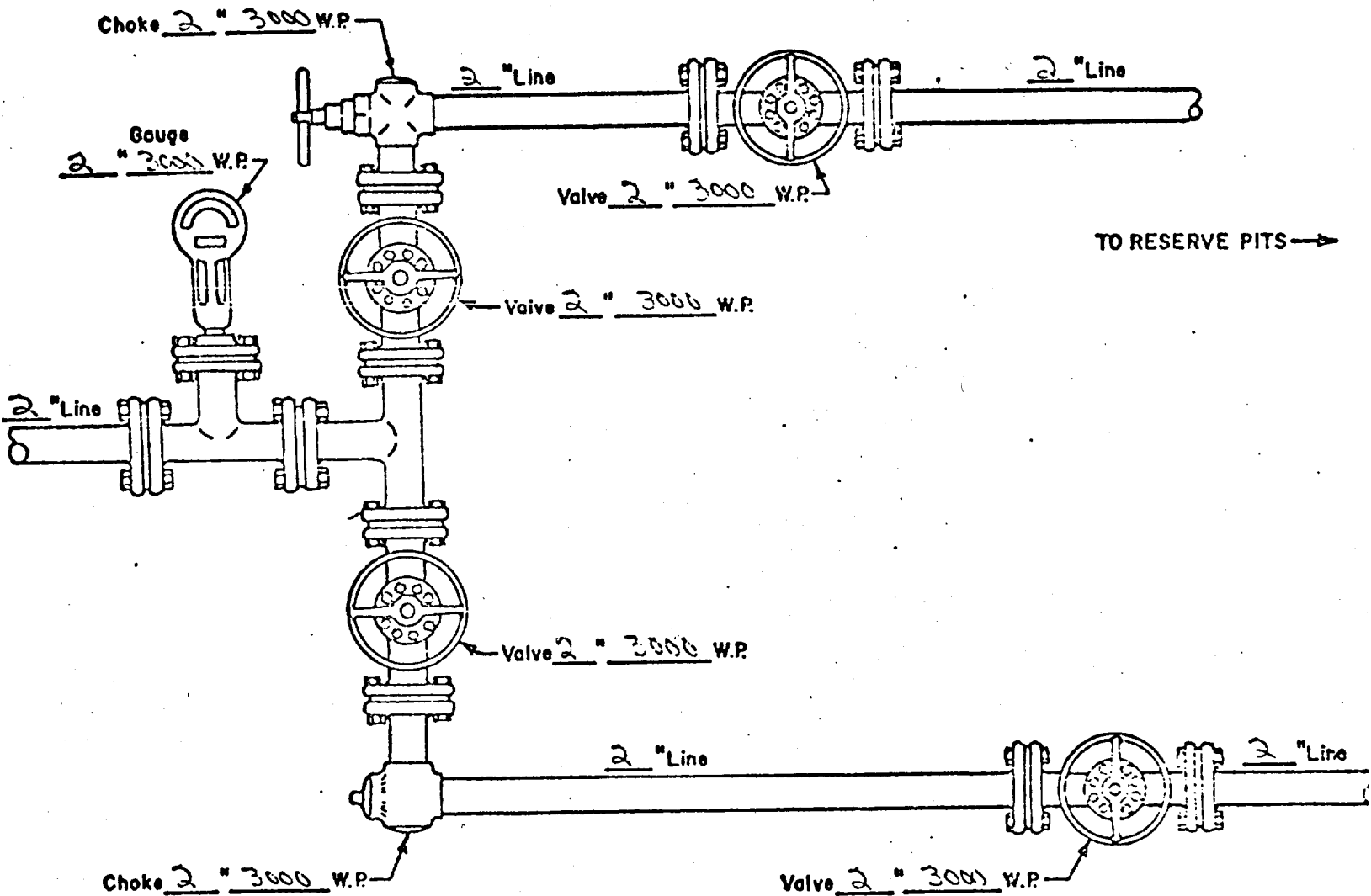
320 660 1000 1320 1660 1980 2300 2640 2960 3280 3600 3920 4240 4560 4880 5200 5520 5840 6160 6480 6800 7120 7440 7760 8080 8400 8720 9040 9360 9680 10000



WELL HEAD B.O.P.
3000 # W.P.

- ☒ Manuel
- ☐ Hydraulic

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 AUG 29 1973
 U. S. GEOLOGICAL SURVEY
 ARTESIA, NEW MEXICO



MANIFOLD
3000 W.P.

☒ Manual

☐ Hydraulic

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AUG 29 1973

U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO



Oilfield Products Division

DRESSER INDUSTRIES, INC.

P.O. BOX 1312 ODESSA, TEXAS 79760

August 29, 1973

Mr. Larry C. Shannon
The Petroleum Corporation
3303 Lee Parkway
Dallas, Texas 75219

Mr. Shannon:

The following is a suggested drilling fluid and casing program with estimated mud cost for your Sun Federal #1 to be drilled in the Northeast quarter of Section 33-19S-29E, Eddy County, New Mexico.

SURFACE: 600' of 11 3/4"

Suggest spudding with a fresh water, Magcogel and Lime type drilling fluid with a 40 to 60 sec/1000 cc viscosity and pretreating the system with loss circulation material.

COMMENT:

1. There is a possibility you may encounter loss circulation while drilling surface hole. If loss circulation occurs and one pit of mud loaded with loss circulation material does not restore circulation, suggest dry drilling to casing point and run casing.

INTERMEDIATE: 4,200' of 8 5/8"

Suggest drilling out from under surface with brine water (10.0 lbs/gal.), using Lime for pH control (10 to 11 pH).

This type drilling fluid should be sufficient to drill to 4,200'.

Prior to running 8 5/8" casing, suggest running a 50 to 100 barrel Visquik, Salt Gel sweep through hole.

COMMENTS:

1. Some operators in this area drill out below surface with fresh water, letting the system saturate from drilled native salt section.

2. There is a slight possibility you may encounter loss circulation from 900' to 2,500'. In the event you encounter loss circulation and one pit of mud loaded with loss circulation material does not restore circulation, suggest dry drilling on to casing point, pump a Visquik sweep through hole and run 8 5/8" casing.
3. Suggest circulating a portion of the reserve pit while drilling with brine water, returning to steel pits in the event mudding up becomes necessary.
4. For corrosion protection, suggest maintaining a constant 10 to 11 pH with Lime.

PRODUCTION: 11,500' of 5 1/2"

Suggest drilling out with fresh water, using Lime for pH control (10.0 to 11.0 pH).

This type drilling fluid should be sufficient to drill to 9,000'.

COMMENT:

1. There is a good possibility you may encounter a seepage to mild loss circulation while drilling with fresh water down to 9,000'. In the event seepage or loss occurs, suggest slug batching loss circulation material through pump suction as seepage or loss occurs (10 to 25 sacks per batch).

At 9,000' suggest displacing the fresh water system with a 9.8 to 10.0 lbs/gal. brine water system.

NOTE: Suggest a 50 barrel slug of loss circulation material (10 to 20 lbs/bbl. L.C.M.) ahead of the brine water system.

This type drilling fluid should be sufficient to drill to 10,7000' or prior to top of Morrow Section.

At 10,700' (or prior to top of Morrow Section), suggest mudding up with a brine water, KCL, XC - Polymer, Mylojel, Caustic Soda, Soda Ash type drilling fluid with the following characteristics.

Weight:	9.8 to 10.0 lbs/gal.
Viscosity:	30 to 34 sec/1000 cc
Water Loss:	10 cc or Less
pH:	8.0 to 9.0

This type drilling fluid should be sufficient to drill to 11,500' with exception of weight and viscosity which may need altering as hole conditions dictate.

COMMENTS:

- L. Suggest circulating a portion of the reserve pit, returning to steel pits at mud up depth.

2. There is a possibility the Lower Wolfcamp Section will carry a high pressure, low volume gas. Suggest installing a drilling head, Swaco choke manifold, and gas separator prior to drilling below 9,000'.
3. There is a possibility you may encounter seepage off and on while drilling with the brine water system down to 11,500'. In the event seepage occurs, suggest slug batching loss circulation material through pump suction as seepage occurs (10 to 25 sacks per batch).

GENERAL COMMENTS:

1. The proper use of drilling head equipment, Swaco's gas separator, d-gasser, adjustable chokes, etc. is very important from 9,000' to total depth. All of this equipment is necessary in the drilling of this well.
2. The following Swaco blowout control equipment will aid you in drilling under balance, successfully control gas kicks after trips, detecting gas kick and loss of drilling fluids: mud-gas separator, d-gasser, adjustable or super choke, pit volume totalizer, and flow sensor.

ESTIMATED MUD COST: \$6,000.00 to \$8,000.00

The above costs are under normal operating conditions and do not include any extensive loss circulation, gas problems, fishing jobs, etc. This cost is also based on a normal drilling rate per day; therefore, any excessive time spent on drilling due to crooked hole, testing, breakdown, etc. would increase mud cost.

I hope the above information will be of benefit to you and if we may be of further service, please do not hesitate to call.

Yours very truly,

MAGCOBAR

R. F. Parker
Tech Service Engineer

RFP:jb

ENGINEERS:

Olin Stewart
Hobbs, New Mexico
Phone: 393-5337 (505)

Travis Young
Hobbs, New Mexico
Phone: 393-6141 (505)

WAREHOUSE:

Lovington, New Mexico
Phone: 396-4747 (505)

↑

THE PETROLEUM CORPORATION

3303 Lee Parkway
DALLAS, TEXAS 75219

August 24, 1973

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

Attention: Mr. Robert L. Beekman
Acting District Engineer

Re: Request for Permit to Drill
Sun-Federal No. 1
Section 33-19S-29E
Eddy County, New Mexico

RECEIVED
AUG 27 1973
U. S. GEOLOGICAL SURVEY
ARTEZIA, NEW MEXICO

Gentlemen:

We are enclosing eight (8) copies of Form 9-331C and three (3) copies of Form 9-1123 for the subject well. The surveyor, under separate cover, will mail the Form C-102 and a map of the existing roads that apply to this request. In accordance with your directive of May 9, 1972, the following are our answers to the 12 parts of the development plan:

1. Existing Roads - please refer to the survey plat mailed under separate cover.
2. Planned Access Roads - please refer to the survey plat mailed under separate cover.
3. Location of Wells - please refer to the survey plat mailed under separate cover.
4. Lateral Roads to Well Locations - please refer to the survey plat mailed under separate cover.

Geological Survey
August 24, 1973
Page Two

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 Layout - a rotary rig will require a location pad of approximately 300 feet by 300 feet square with the well in the middle.

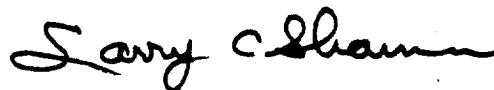
11. Plans for Restoration of the Surface - all debris will be removed and the location leveled after completion of the drilling operations.

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 the first of September.

Yours very truly,

THE PETROLEUM CORPORATION



Larry C. Shannon

LCS:dd
Enclosures

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ARTESIA, NEW MEXICO

light plant

LPE tank

Diesel tank

210
661

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Gardner Denver
FXO
5750 pump

45' x 7 1/2' x 6

Emisco D-700
700 HP
Main pump

Sub 12' high

55'

Dog house

30' x 7 1/2' x 6

30' x 7 1/2' x 6

Lid covered
Reserve pit

waste pit

pipe racks

est walk

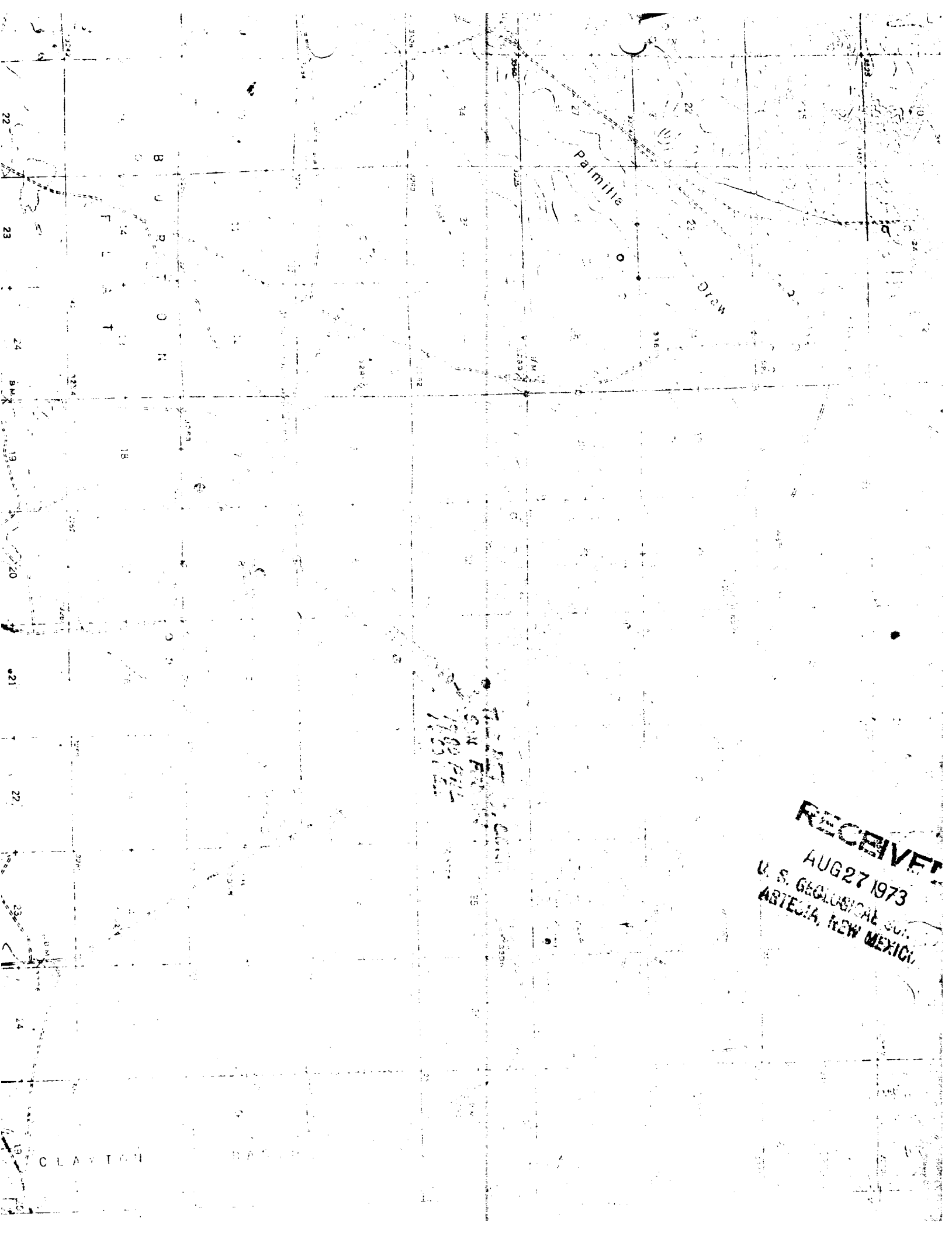
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ARTESIA, NEW MEXICO

Caliche pad 200' x 200'

Art Rig # 6



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ARTECIA, NEW MEXICO

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