Form 9-331 C
(May 1963)

N. M. O. C. C. COPY

SUBMIT IN PLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

30-015-20959

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [X] OTHER — SINGLE ZONE [ ] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: MONSANTO COMPANY

3. ADDRESS OF OPERATOR: 101 North Marienfeld, Midland, Texas 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1980' FEL & 660' FSL Section 27
At proposed prod. zone

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5. LEASE DESIGNATION AND SERIAL NO.: NM 0428854

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Burton Flat Deep Unit

8. FARM OR LEASE NAME: Burton Flat Unit

9. WELL NO.: 8

10. FIELD AND POOL, OR WILDCAT: Burton Flat-Morrow

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 27, T-20S, R-28E

12. COUNTY OR PARISH: Eddy

13. STATE: New Mexico

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 5 miles N.E. of Carlsbad, 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	17. NO. OF ACRES ASSIGNED TO THIS WELL
660'	120	320

O. C. C.
ARTESIA, OFFICE

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	19. PROPOSED DEPTH	20. ROTARY OR CABLE TOOLS
2640	11,600'	Rotary

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

22. APPROX. DATE WORK WILL START*

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17½"	13 3/8"	48#	600'	750 Sx.
12¼"	9 5/8"	36#	3000'	1250 Sx.

Drill 17½" hole to 600'; Set 13 3/8" 48# Csg. & cement to surface.
Drill 12¼" hole to 3000'; Set 9 5/8" 36# Csg. & cement to surface.
Drill 8 3/4" hole to 11,600' & log.
If production is indicated set 5½" Csg. & cement.
Perforate & treat if necessary.
BOP - Series 1500 double hydraulic w/ Series 900 annular preventer.

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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.

24.

SIGNED W. W. Wood TITLE Dist. Prod. Mgr. DATE 9/7/73

(This space for Federal or State office use)

APPROVED
SEP 18 1973
H. L. BEERMAN
ACTING DISTRICT ENGINEER

PERMIT NO. _____ APPROVAL DATE Subject to compliance with attached requirements dated 6-22-73 attached

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

THIS APPROVAL IS RESCINDED IF OPERATIONS ARE NOT COMMENCED WITHIN 3 MONTHS.
EXPIRES DEC 17 1973

DECLARED WATER BASIN
13 3/8 9 5/8
CEMENT BEHIND ~~9 5/8~~ CASING MUST BE CIRCULATED

*See Instructions On Reverse Side

NOTIFY USGS IN SUFFICIENT TIME TO WITNESS CEMENTING THE 9 5/8 CASING.

United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Drawer U
Artesia, New Mexico 88210

June 22, 1973

NOTICE

DRILLING WELL CONTROL REQUIREMENTS FOR DEEP WELLS
DRILLED ON FEDERAL OIL AND GAS LEASES
IN THE ARTESIA DISTRICT

The following requirements are established in accordance with 30 CFR 221.24, 221.36, and 221.37. Blowout preventer equipment, choke equipment, drilling fluid characteristics, drilling fluid monitors, and the conduct of drilling procedures shall be such as are necessary to prevent the blowout of any well. In addition to all other applicable rules, regulations, and accepted good operating practices, drilling shall be in accordance with the following safety requirements:

1. After setting the 9⅝" casing string and before drilling into the MORROW formation, the blowout preventers and related control equipment shall be pressure tested to rated working pressures by an independent service company. Any equipment failing to test satisfactorily shall be repaired or replaced. This office should be notified in sufficient time for a representative to witness the tests and shall be furnished a copy of the pressure test report. In addition, the pipe rams and bag-type preventer shall be actuated at least once each 24 hours and the blind rams each time the drill pipe is out of the hole.

2. Accumulators shall maintain a pressure capacity reserve at all times to provide for repeated operation of hydraulic preventers.

3. A drill string safety valve in the open position shall be maintained on the rig floor at all times while drilling operations are being conducted.

4. Blowout prevention drills shall be conducted as necessary to insure that each drilling crew is properly trained to carry out emergency duties.

5. Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be installed and operating before

drilling into the Wolfcamp Formation
and used until production casing is run and cemented. Monitoring equipment shall consist of the following:

(1) A recording pit level indicator to determine pit volume gains and losses.

(2) A mud volume measuring device for accurately determining mud volume necessary to fill the hole on trips.

(3) A flow sensor on the flow-line to warn of any abnormal mud returns from the well.

6. When coming out of the hole with drill pipe, the annulus shall be filled with mud before the mud level drops below 150 feet. The volume of mud required to fill the hole shall be watched, and any time there is an indication of swabbing, or influx of formation fluids, proper blowout prevention precautions must be taken. The mud shall not be circulated and conditioned except on or near bottom, unless well conditions prevent running the pipe to bottom.

7. A copy of these requirements shall be posted on the rig floor or in the dog house during the drilling of the well.

James A. Knauf
District Engineer

Lease No. NM 0428554
Well Monsanto Co. - No. 3 [illegible] Flat Unit
Drillsite 660' 1980' 27-23S-28E
Depth 11,400' Morrow
Approved Sept. 18, 1975

'W MEXICO OIL CONSERVATION COMMI' 'N

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	Lease	Well No.
MONSANTO COMPANY	BURTON FLAT UNIT	8

Unit Letter	Section	Township	Range	County
0	27	20-S	28-E	EDDY

Actual Footage Location of Well:
660 feet from the South line and 1980 feet from the East line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
	MORROW	UNDESIGNATED	320 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

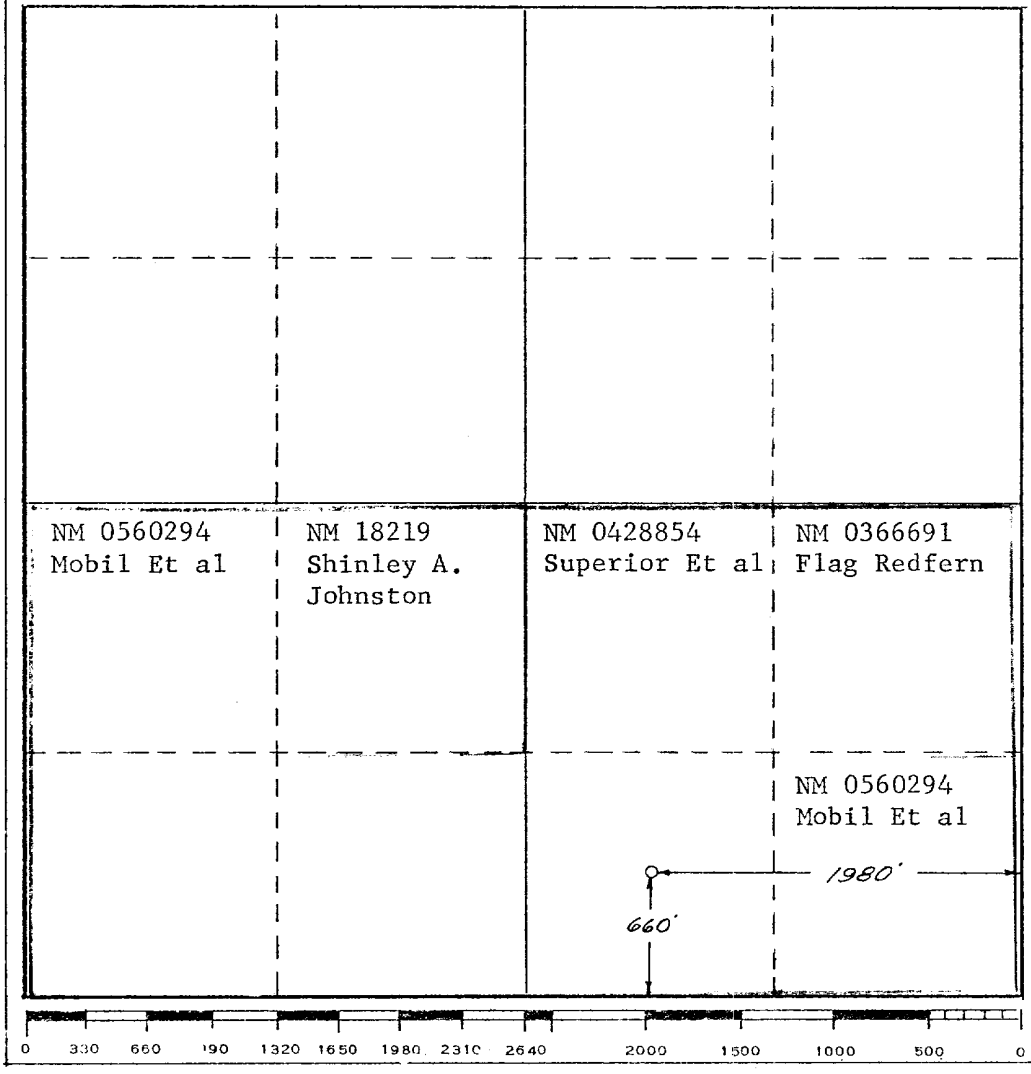
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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, ~~forced-pooling~~ etc?
Monsanto Company (Operator)
Burton Flat Deep Unit
14-08-001-12391

[X] 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.

A. W. Wood

Name: A. W. Wood

Position: Dist. Prod. Mgr.

Company: MONSANTO COMPANY

Date: Sept. 7, 1973

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ARTESIA, NEW MEXICO

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.

September 4, 1973

Date Surveyed

Richard B. Duniven

Registered Professional Engineer and/or Land Surveyor

Certificate No. 4882

Monsanto

Monsanto Company
317 First Savings & Loan Building
101 North Marienfeld
Midland, Texas 79701
Phone: (915) 683-3306

September 7, 1973

United States Geological Survey
Drawer U
Artesia, New Mexico 88210

Attn: Mr. James Knauf

RE: Burton Flat Unit Well No. 8
Section 27, T-20S, R-28E
Eddy County, New Mexico

Gentlemen:

Monsanto Company respectfully submits the following Development Plan for drilling the above captioned well.

Development plans include the following:

1. Existing roads: See attachment

2. Planned access roads: See attachment

3. Location of well: 660' FSL & 1980' FEL
Section 27, T-20S, R-28E

4. Lateral Road: See attachment

5. Location of tank battery:
If the well is gas productive, a heater and three phase separator will be installed on the Southwest corner of the pad with two 200 Bbls. collection tanks for water and condensate respectively. Location of pipelines is shown on the attached plat.

6. Location and type of water supply:
Water will be purchased as near as possible and trucked to location.

7. Method of waste water disposal:
Mud pits as shown on attachment. Waste water will be trucked to appropriate disposal facilities.

8. Location of camps: None

9. Location of airstrips: None

10. Location of rig: See attachment

11. Plans for restoration:
Pits will be leveled and land returned as near as possible to original condition.

12. Other - Attached mud program and BOP description. After setting the 9 5/8" casing string and before drilling into the Wolfcamp formation, the blowout preventers and related control equipment will be pressure tested to rated working pressures by an independent service company. Any equipment failing to test satisfactorily shall be repaired or replaced.

Monsanto Company respectfully requests that this plan of development be approved. Please advise if you require any additional information.

Yours very truly,

MONSANTO COMPANY

A. W. Wood

A. W. Wood
District Production Manager

AWW:HW:mm
Encls.

BURTON FLAT UNIT WELL NO. 8

MUD PROGRAM

Surface:

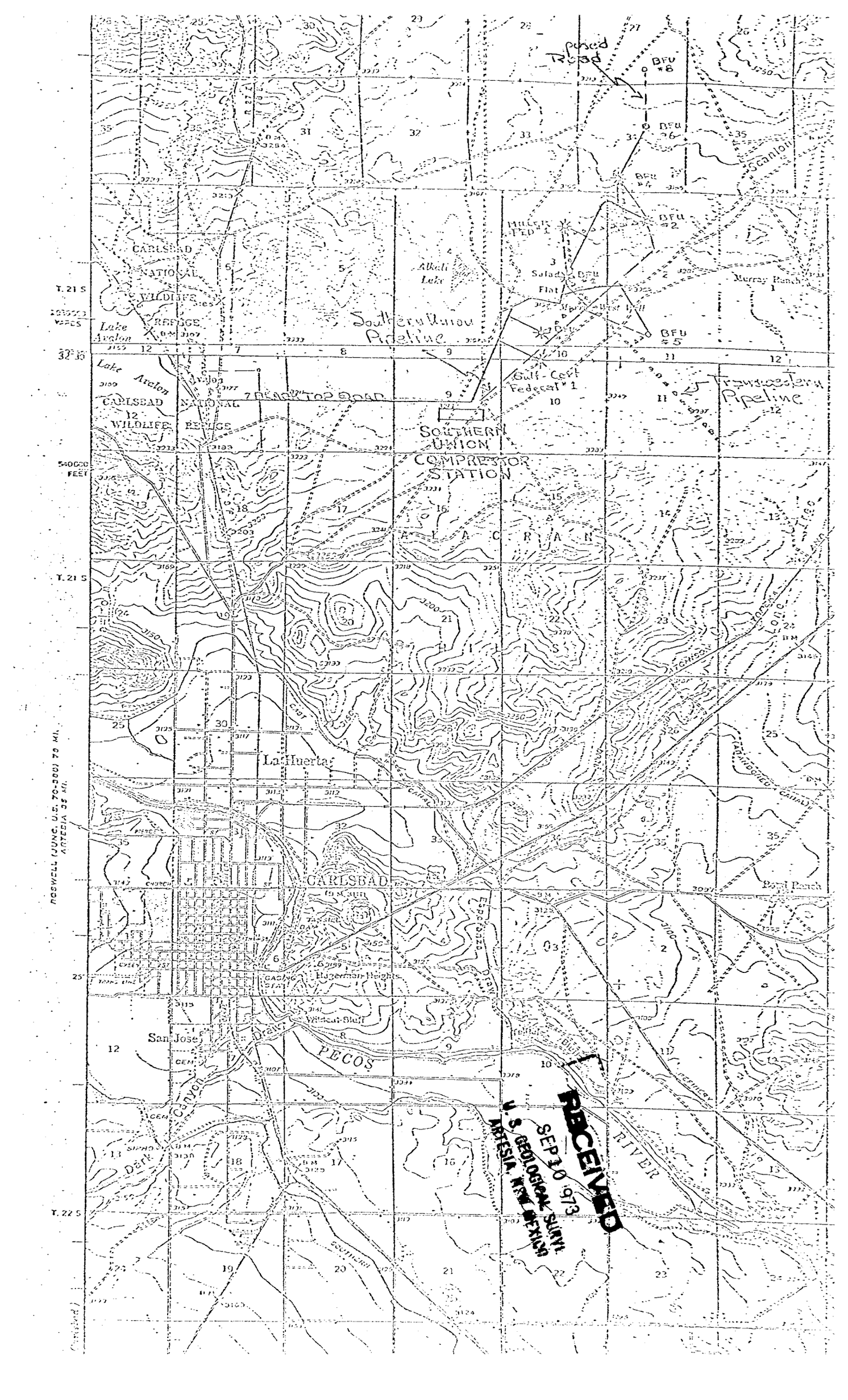
0 - 600'
Fresh water gel/lime slurry

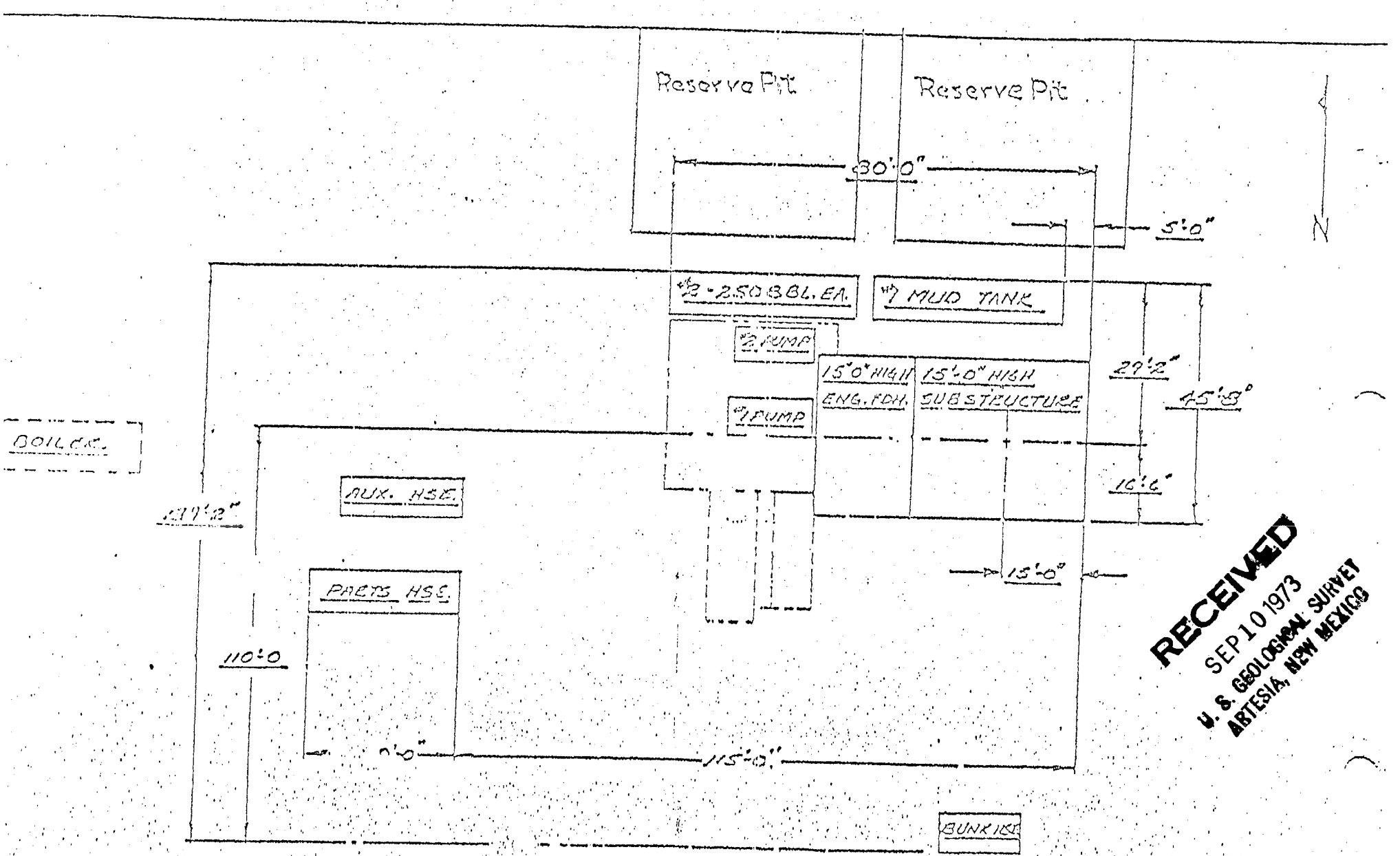
Intermediate:

600 - 3000'
Fresh water with L.C.M. for seepage

Production:

3000 - T.D.
Fresh water and lime to 8,500'.
At 8,500' mud up with a fresh water low solids benex system (Wt. 8.9 to 9.2#/Gal.).
At 10,000' increase weight to 9.7#/Gal.
Adjust weight and viscosity as required to T.D.
Reduce water loss to 5 cc before drilling Morrow.

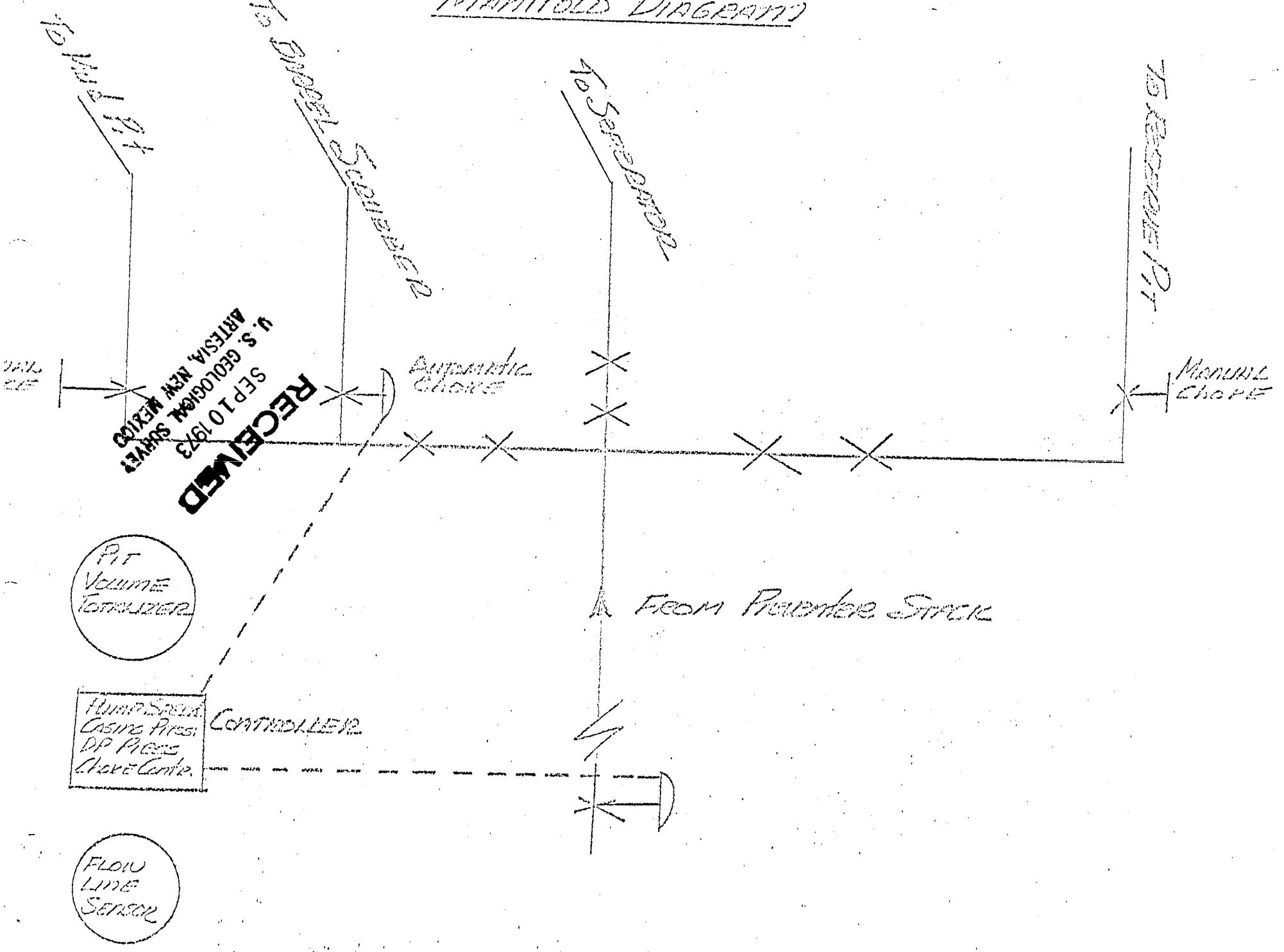




NOTE
DASH LINES INDICATE NORMAL LOCATION OF AUXILIARY HOUSE AND PARTS HOUSE FOR COLD WEATHER OPERATION.

EXHIBIT NO. 18

MANIFOLD DIAGRAM



THE BLOWOUT PREVENTER STACK

5,000 psi Working Pressure