

NO. OF COPIES RECEIVED	6
DISTRIBUTION	
DATE	1
FILE	1
U.S.G.S.	6.1
LAND OFFICE	1
OPERATOR	1

NEW MEXICO OIL CONSERVATION COMMISSION

RECEIVED

MAR 28 1974

O. C. C.
ARTS & CRAFTS

Form C-101
Revised 1-1-55

5A. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
5. State Oil & Gas Lease No. L-1648
7. Unit Agreement Name
8. Farm or Lease Name State CP
9. Well No. 1
10. Field and Pool, or Wildcat Unders. Morrow
11. County Eddy
12. Proposed Depth 11,650
13A. Formation Morrow
14. Rotary or C.R. Rotary
21. Elevations (Show whether D.F., R.I., etc.) 3227' GR.
21A. King & Status (Reg. Bond Required/Approved
21B. Drilling Contractor Nct Released
22. Approx. Date Work will start April 15, 1974

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work
b. Type of Well
OIL ☒ GAS ☒ OTHER ☐
WELL ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. Name of Operator
Cities Service Oil Company

3. Address of Operator
Box 4906 - Midland, Texas 79701

4. Location of Well
UNIT LETTER J LOCATED 1830 FEET FROM THE South
AND 1980 FEET FROM THE East
LINE OF BEEL 9 TWP. 21S R35. 27E NE 1/4

13. Proposed Depth
11,650

13A. Formation
Morrow

14. Rotary or C.R.
Rotary

21. Elevations (Show whether D.F., R.I., etc.)
3227' GR.

21A. King & Status (Reg. Bond
Required/Approved

21B. Drilling Contractor
Nct Released

22. Approx. Date Work will start
April 15, 1974

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17-1/2"	13-3/8"	48#	610'	450	G.L.
12-1/4"	9-5/8"	36#	2970'	1900	G.L.
8-3/4"	5-1/2"	17 & 20#	11650'	1000	8300'

It is proposed to drill this well to a T.D. of 11,650' and test the Morrow Formation.

The blow out prevention program is as follows:

1. One set Blind Rams.
2. One set of Drill Pipe Rams.
3. One Hydril.
4. One Rotating Head.

APPROVAL VALID
FOR 90 DAYS UNLESS
DRILLING COMMENCED,

EXPIRES 6-15-74

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 E. P. P. P. Title Region Oper. Mgr. Date March 26, 1974

(This space for State Use)

APPROVED BY W. C. Gressett
CONDITIONS OF APPROVAL, IF ANY:

TITLE OIL AND GAS INSPECTOR

Cement must be circulated to

MAR 29 1974

DATE March 29, 1974 in sufficient
time to witness cementing

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form O-101
Supersedes O-101
Effective 1-1-67

All distances must be from the outer boundaries of the Section

CITIES SERVICE OIL COMPANY			LEASE		Well No. 1
J	9	21 SOUTH	27 EAST	EDDY	
1980	EAST	1830	SOUTH		
3226.8	Morrow	Undes. Morrow	Dedicated Acreage		320

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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?

☒ Yes ☐ No If answer is "yes," type of consolidation Unitization

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use 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.

RECEIVED

MAR 28 1974

O. C. C.
ARTESIA, OFFICE

CERTIFICATION

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

Espey

Region Oper. Mgr.

Cities Service Oil Co.

March 26, 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 and belief.

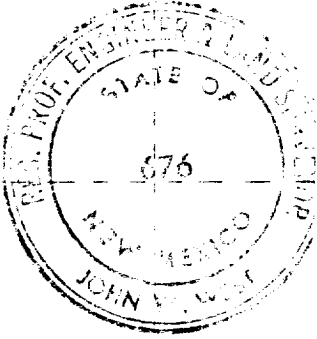
Date of Survey

JANUARY 8, 1974

Registered Professional Engineer
No. 10,000, State of New Mexico

John W. West

676

	
<p>CITIES SERVICE OIL COMPANY</p> <p>L- 5037</p>	<p>CITIES SERVICE 1/2</p> <p>J. M. HUBER CORP. 1/2</p> <p>1980'</p> <p>1830'</p> <p>L- 1648</p>



CITIES SERVICE OIL COMPANY

Box 4906
Midland, Texas 79701
Telephone: 915 684-7131

March 27, 1974 **RECEIVED**

New Mexico Oil Conservation Commission
P. O. Drawer DD
Artesia, New Mexico 88210

MAR 28 1974

O. C. C.
ARTESIA, OFFICE

Re: Application for Permit to
Drill State "CP" No. 1,
Eddy County, New Mexico

Gentlemen:

Cities Service Oil Company respectfully requests permission to drill the No. 1 State "CP" located 1980' FEL, 1830' FSL, Sec. 9-21S-27E, Eddy County, New Mexico.

In support of this application, the following data is submitted:

1. Form C-101, Application for Permit to Drill.
2. Form C-102, Well Location and Acreage Dedication Plat.
3. Development plan which includes the following information:
 - a. County road map showing existing roads, proposed access road and location of proposed drilling site in relation to surrounding area.
 - b. Plat showing approximate dimensions of location layout including position of the rig, mud pits, reserve pit, etc.
 - c. Blowout preventer diagram showing arrangement and components of BOP stack.
 - d. Schematic diagram showing hook-up of BOP's, choke manifold and mud/gas separator.
 - e. Schematic diagram of casing program and estimated formation tops.
 - f. Summary of mud program.

The regular location was staked 1980' FEL and 1980' FSL of Sec. 9-21S-27E. This location was 131' south of an E-W fence enclosing

March 27, 1974

the southern edge of Southern Union's Avalon Gas Plant; and 13' north of Southwest Public Service E-W primary distribution line. This was obviously an undrillable location, so an alternate site was staked 150' south of the regular location. The new footage is 1980' FEL and 1830' FSL of Section 9-21S-27E, Eddy County, New Mexico. A drilling rig may be fitted into this additional space and your approval of the alternate location is requested.

As noted above, the No. 1 State "CP" is immediately south of Southern Union's Avalon Gas Plant. Projected TD is 11,650'. The primary objective is the Morrow Sand. Secondary objectives are Wolfcamp, Canyon and Strawn.

The location is on State land leased to Mr. J. D. Spears, Box 1017, Carlsbad, New Mexico 88220, telephone no. 505/885-6641. Mr. Spears has been notified of our intent to drill.

The reserve pit will be lined when it is built. Upon completion of the well, the pits will be backfilled and levelled and debris removed.

If the well is completed as a producer, production equipment will be set no closer than 150' from the well with tanks set to collect both oil and water which will be trucked to sale or disposal. The gas purchaser will install necessary gas measuring equipment and pipeline.

If it is a dry hole, the well will be plugged in accordance with New Mexico Oil Conservation Commission requirements.

The proposed casing program consists of:

13-3/8" casing set at 610' with cement circulated to surface.

9-5/8" casing set at 2970' with cement circulated to surface.

5-1/2" casing set at TD 11,650' and cemented with sufficient volume to fill the annular space from TD to 9000'.

In addition to the blowout preventer equipment shown on the attached plat, the following equipment will be in use before drilling out from under the 9-5/8" intermediate casing:

1. Swaco adjustable choke.
2. Pit volume totalizer.
3. Flow line sensor.
4. Degasser.

Application for Permit to Drill State "CP" No. 1
Page No. 3

March 27, 1974

Also, prior to drilling out under the 9-5/8", the BOP's and related control equipment will be pressure tested to rated working pressure by Yellow Jacket Tools and Services, Inc.

This well will be drilled in accordance with USGS requirements stated in their Order No. 30 CFR 221.24, 221.36 and 221.37.

Please contact me at the above address if further information is needed to properly evaluate this request.

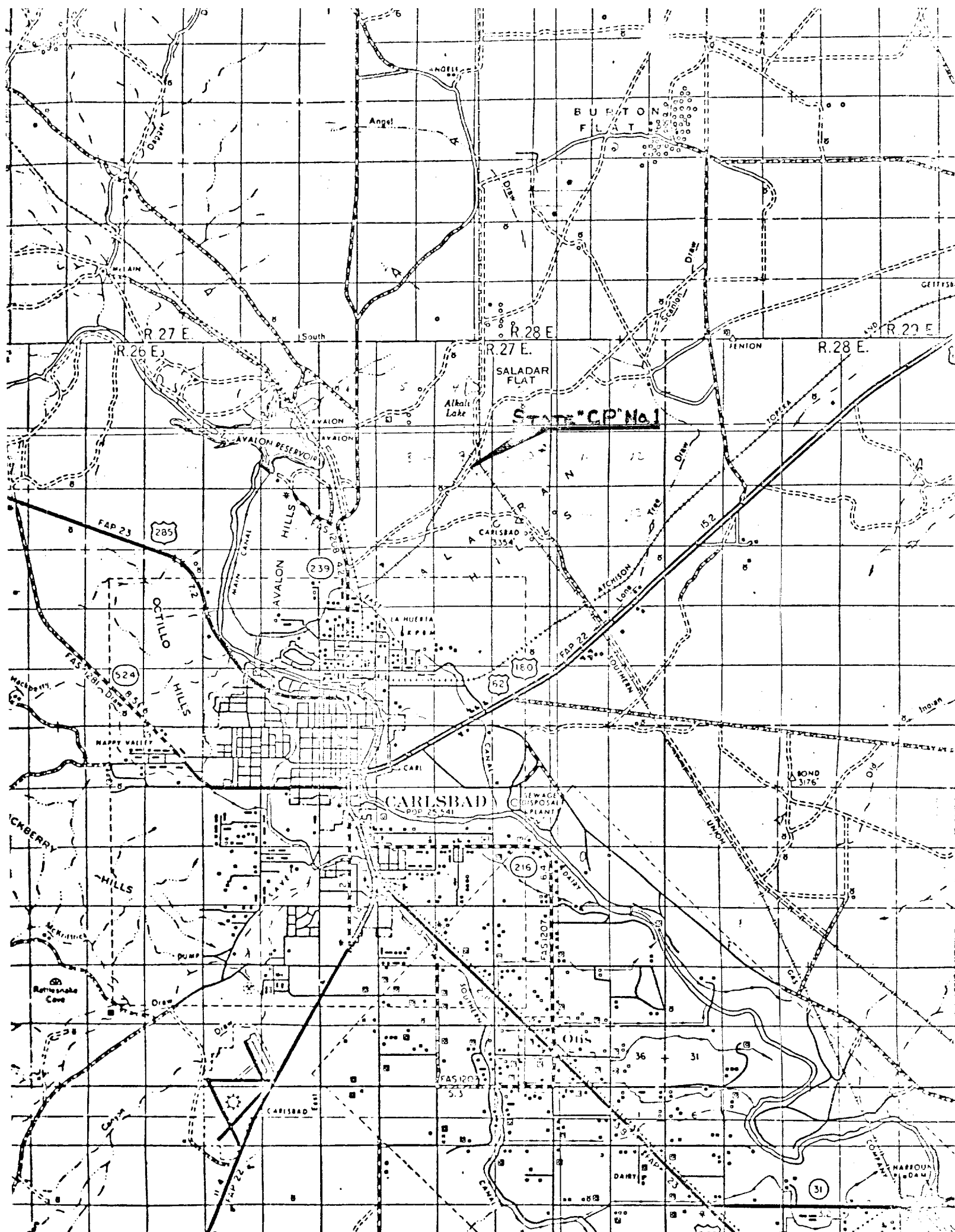
Yours very truly,



E. Y. Wilder
Operations Manager
Southwest Region
E & P Division

EYW/ljs

Attachments

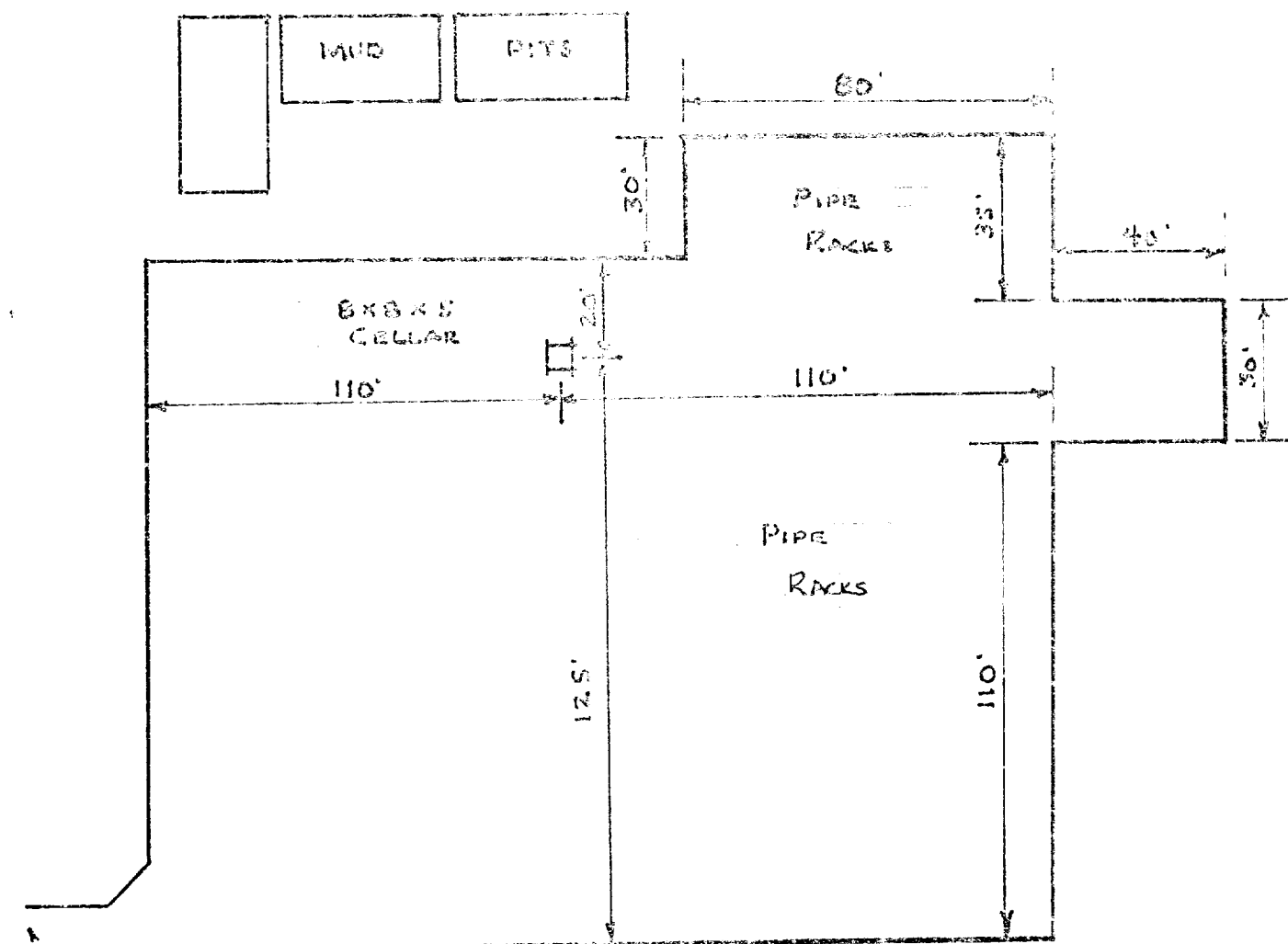
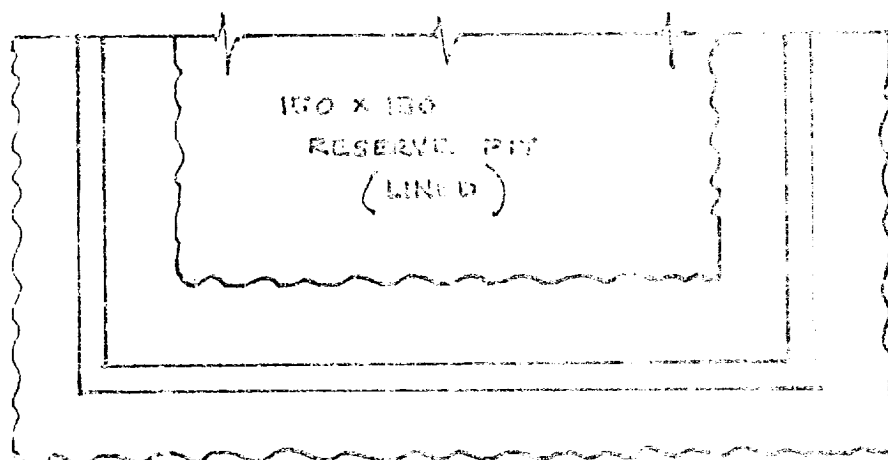


STATION 7017 No. 1

1980 FEB, 1830 A.M., 1980, 9-21.5-27E.

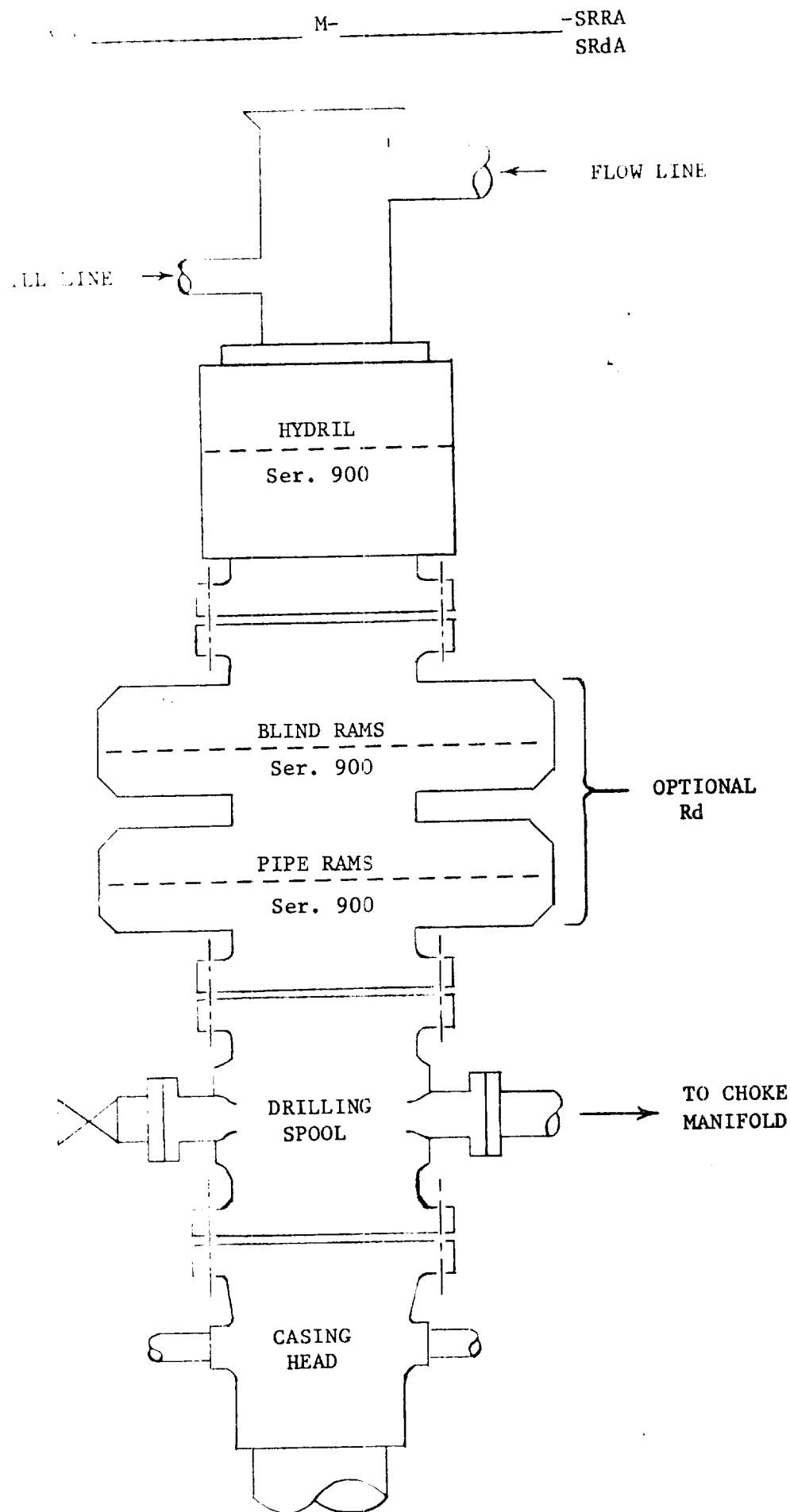
East Center, San Antonio

Fig up with V-Blow in East end
reserved pit to North



12' wide access road

WOUT PREVENTER REQUIREMENTS



STATE "CP" No. 1

1980' FEL, 1830' FSL

Sec. 9-21S-27E

Eddy Co., New Mexico

CLOSING METHOD

Sufficient accumulator volume shall be available to operate both the bag type preventer and pipe ram preventer with a snap-action through the following steps: close-open-close.

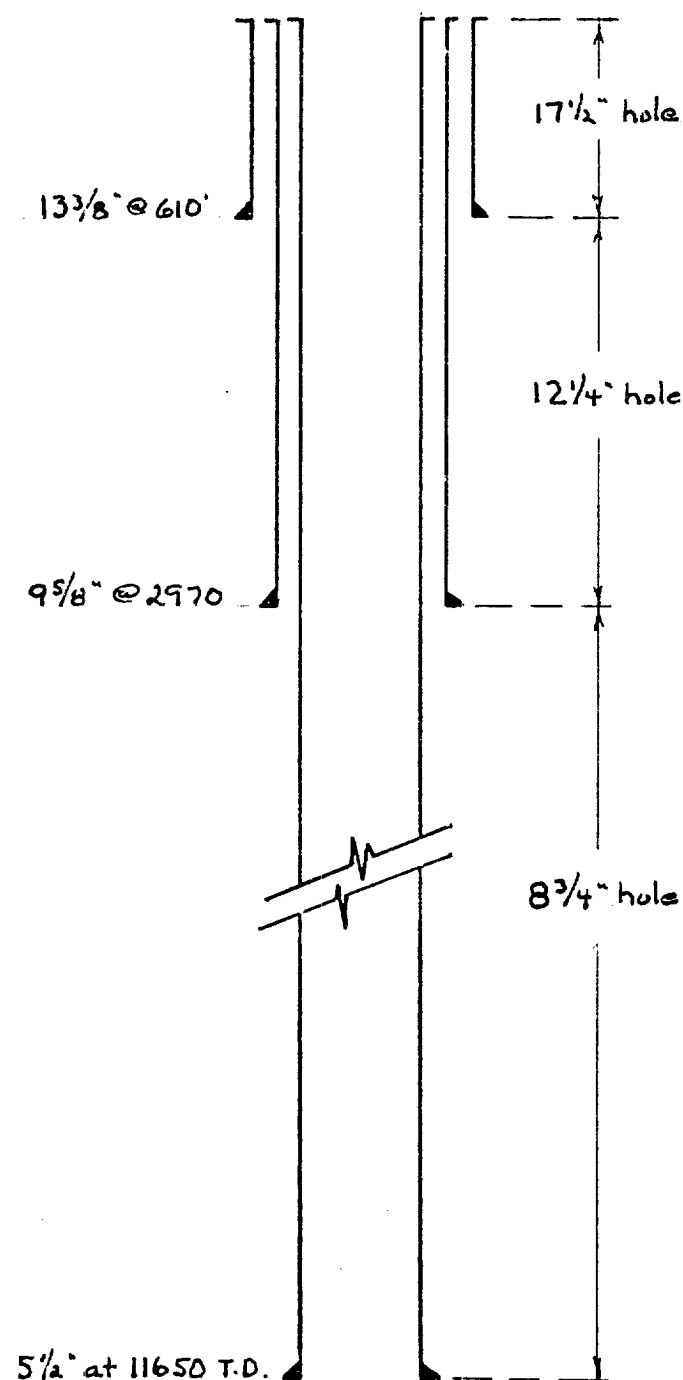
STATE "CP" No. 1

1980FEL, 1830FSL, SEC. 9-21S, - 27E.

EDDY COUNTY, NEW MEXICO

HOLE SIZE &
CASING PROGRAM —

ESTIMATED
FORMATION TOPS —



— Bone Spring 5200

— Dean 8450

— Wolfcamp 8800

— Canyon 9400

— Strawn 10150

— Morrow 11100

— Chester 11600
— T.D. 11650

STATE "CP" No. 1

1980' FEL, 1830' FSL

Sec. 9-21S-27E

Eddy Co., New Mexico

MUD PROGRAM

0' - 610'	Drill with fresh water mud. Mud wt. approximately 8.5 ppg. Viscosity 30-34.
610' - 2970'	Drill with fresh water. If returns are lost and cannot be regained, dry drill to casing depth of 3290'. Mud wt. 8.5-9.0 ppg. Viscosity 28-31.
2970' - 7000'	Drill with fresh water. Add caustic for Ph control. Mud wt. 8.5-9.0 ppg. Viscosity 28-31.
7000' - 8800'	Start raising mud weight to approximately 9.6 ppg with potash brine. Viscosity 28-31.
8800' - 9800'	Drill with potash brine. Mud wt. 9.6 ppg. Viscosity 28-31.
9800' - 11650'	Mud up with Morrow protection fluid. Maintain mud wt. and fluid loss as hole conditions dictate.