

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

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' FSL & 2030' FWL Section 13

At proposed prod. zone

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

5 miles N.E. of Carlsbad, New Mexico

O. C. C.

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

660'

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

2500'

16. NO. OF ACRES INTEREST IN

1080

19. PROPOSED DEPTH

11,600'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320

20. ROTARY OR CABLE TOOLS

Rotary

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

3267 G.R.

22. APPROX. DATE WORK WILL START*

May, 1974

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/4"	13 3/8"	48#	600'	750 Sx.
12 1/4"	9 5/8"	36#	3000'	1250 Sx.

Drill 17 1/4" hole to 600'; Set 13 3/8" 48# Csg & cement to surface.

Drill 12 1/4" hole to 3000'; Set 9 5/8" Csg 36# & cement to surface.

Drill 8 3/4" hole to 11,600' & log.

If production is indicated, set 5 1/2" Csg & cement.

Perforate & treat if necessary.

BOP Series 1500 Double Hydraulic w/ Series 900 annular preventer.

RECEIVED

APR 22 1974

U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

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

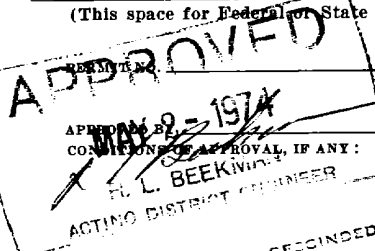
TITLE

District Engineer

DATE

4/18/74

(This space for Federal or State office use)

SUBJECT TO ATTACHED DEER WELL CONTROL
APPROVAL DATE

REQUIREMENTS

DATED

JUN 22 1973

NOTIFY DATE

WITNESS CEMENTING THE 9 5/8" CASING,

THIS APPROVAL IS RESCINDED IF OPERATIONS
ARE NOT COMMENCED WITHIN 3 MONTHS.
AUG 2 - 1974

*See Instructions On Reverse Side

DECLARED WATER BASIN
13 3/8" 48#
C MENT BEHIND THE 9 5/8"
CASING MUST BE CIRCULATED

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 as 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.

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 MONSANTO COMPANY			Lease ARCO		Well No. 3
Unit Letter K	Section 13	Township 21-S	Range 26-E	County EDDY	
Actual Footage Location of Well: 1980 feet from the South line and 2030 feet from the West line					
Ground Level Elev. 3267'	Producing Formation MORROW		Pool Undesignated		Dedicated Acreage: 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, 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 *Lyndell*

Position
District Engineer

Company
Monsanto Company

Date
April 18, 1974

RECEIVED
APR 22 1974

I hereby certify that the location shown on this plat was plotted from field notes of actual survey made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

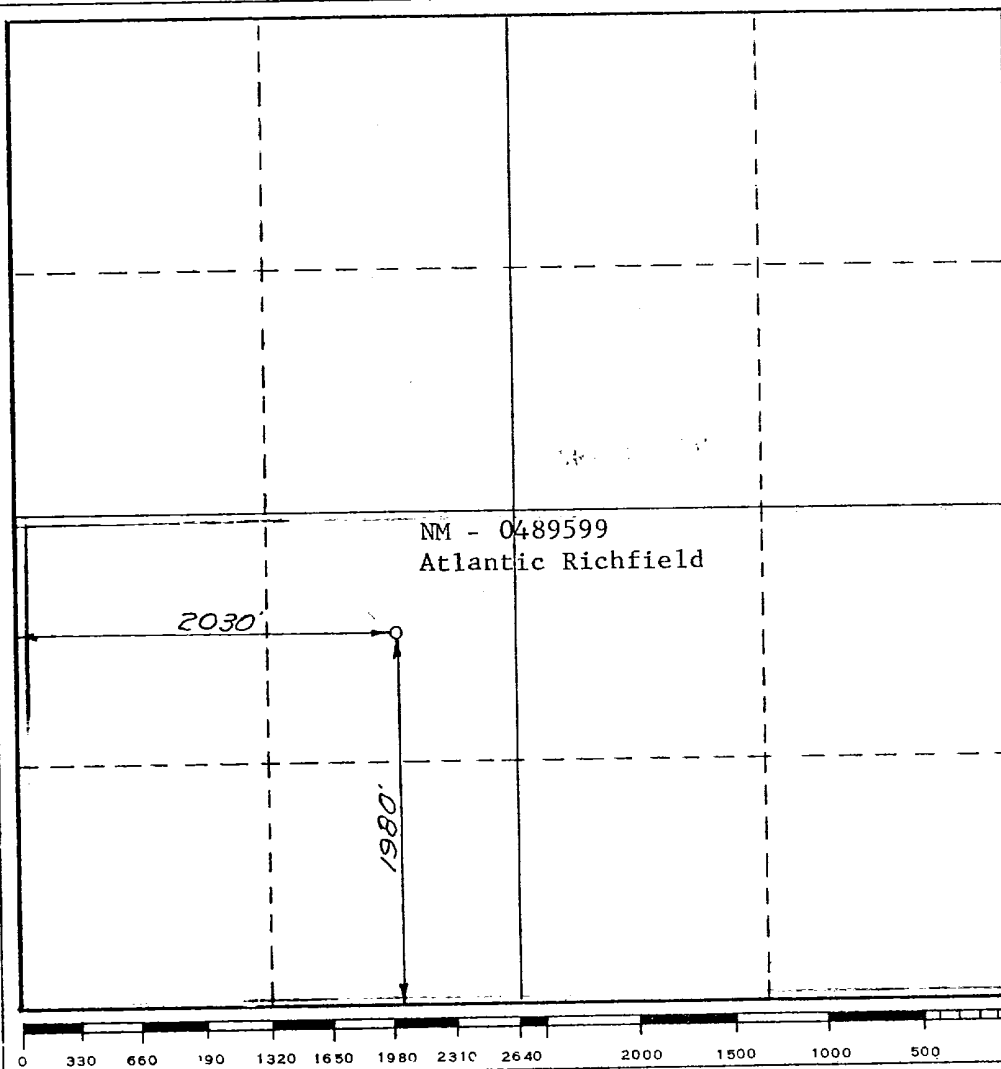
April 17, 1974

Date Surveyed
Richard B. Duniven

Registered Professional Engineer
and/or Land Surveyor

Richard B. Duniven

Certificate No.
4382



Monsanto

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

April 18, 1974

United States Geological Survey
Drawer U
Artesia, New Mexico 88210

Attn: Mr. James Knauf

RE: Arco No. 3
Sec. 13, T-21S, R-26E
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 (20 ft. wide)
3. Location of Well: 1980' FSL & 2030' FWL
Sec. 13, T-21S, R-26E
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 Bbl. collection tanks for water and condensate respectively. Location of pipelines is unknown at this time.
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.

April 18, 1974

8. Location of camps: None
9. Location of air strips: 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 sat-
isfactorily 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


E. M. Scholl
District Engineer

EMS:HSW:tw
Encls.

POWELL JUNG, U.S. 70-3001 79 MI.
ANTICIA 35 MI.

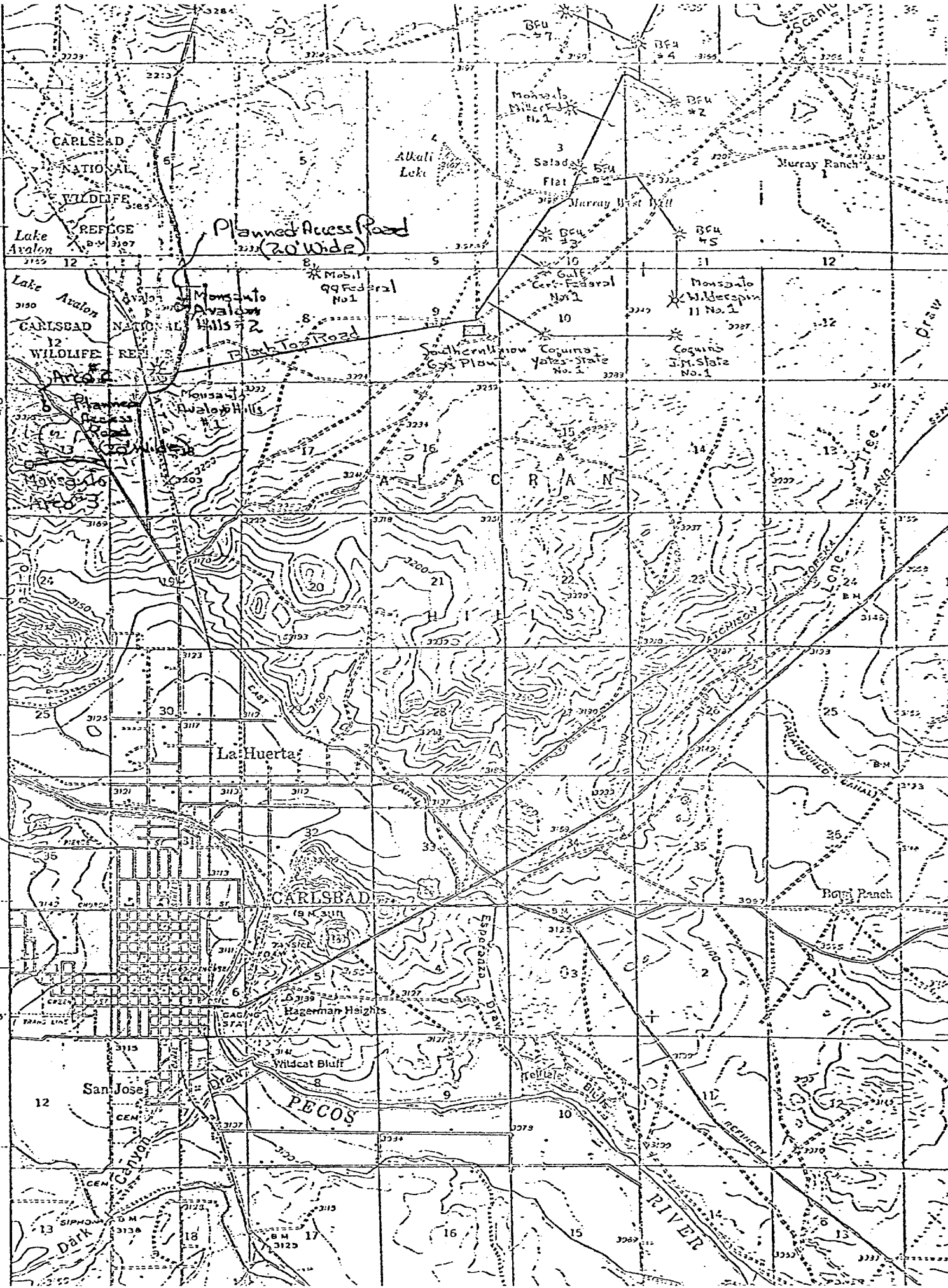
T. 21 S
R. 12 E

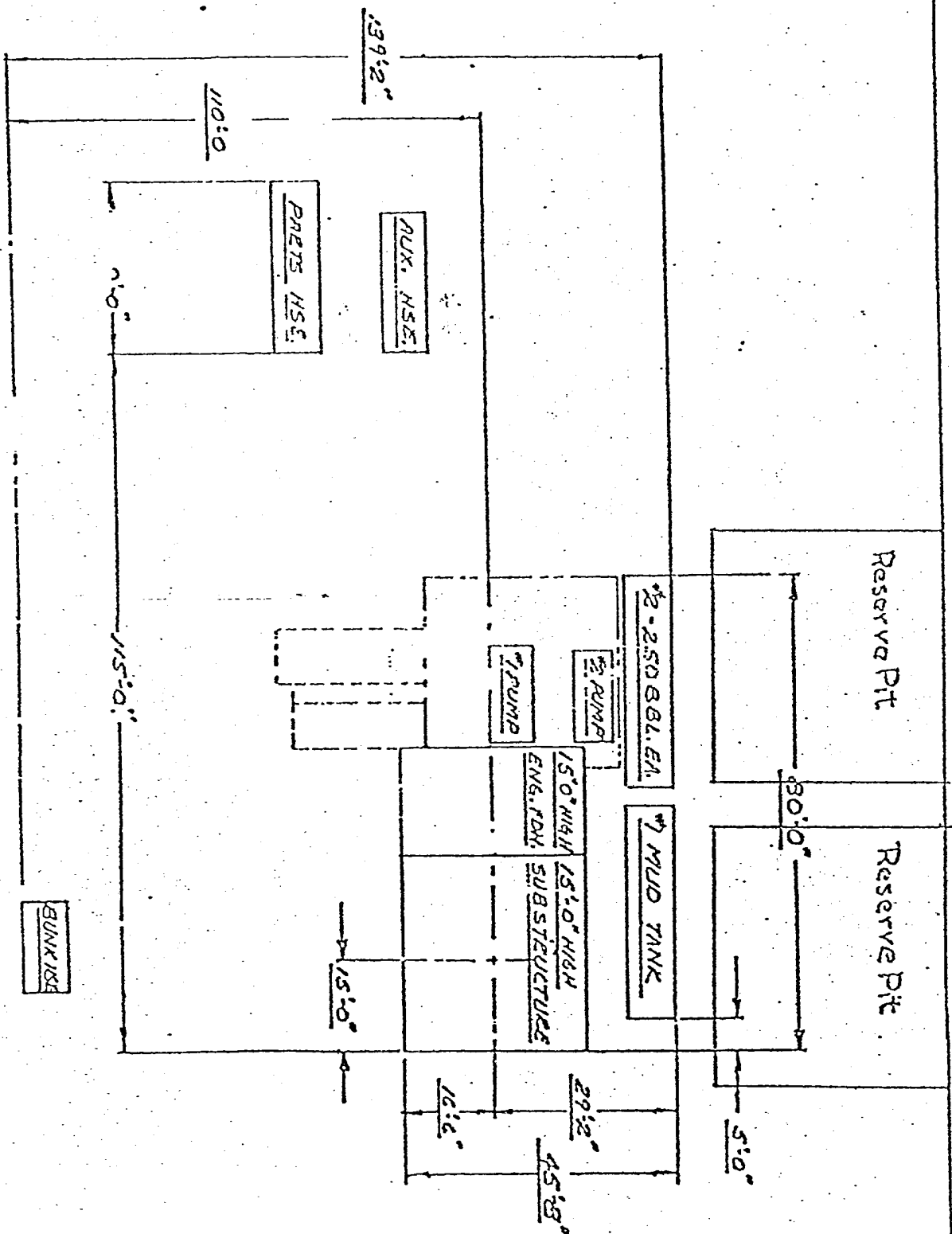
32° 30'

540000
FEET

T. 21 S

25°





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

ARCO NO. 3

MUD PROGRAM

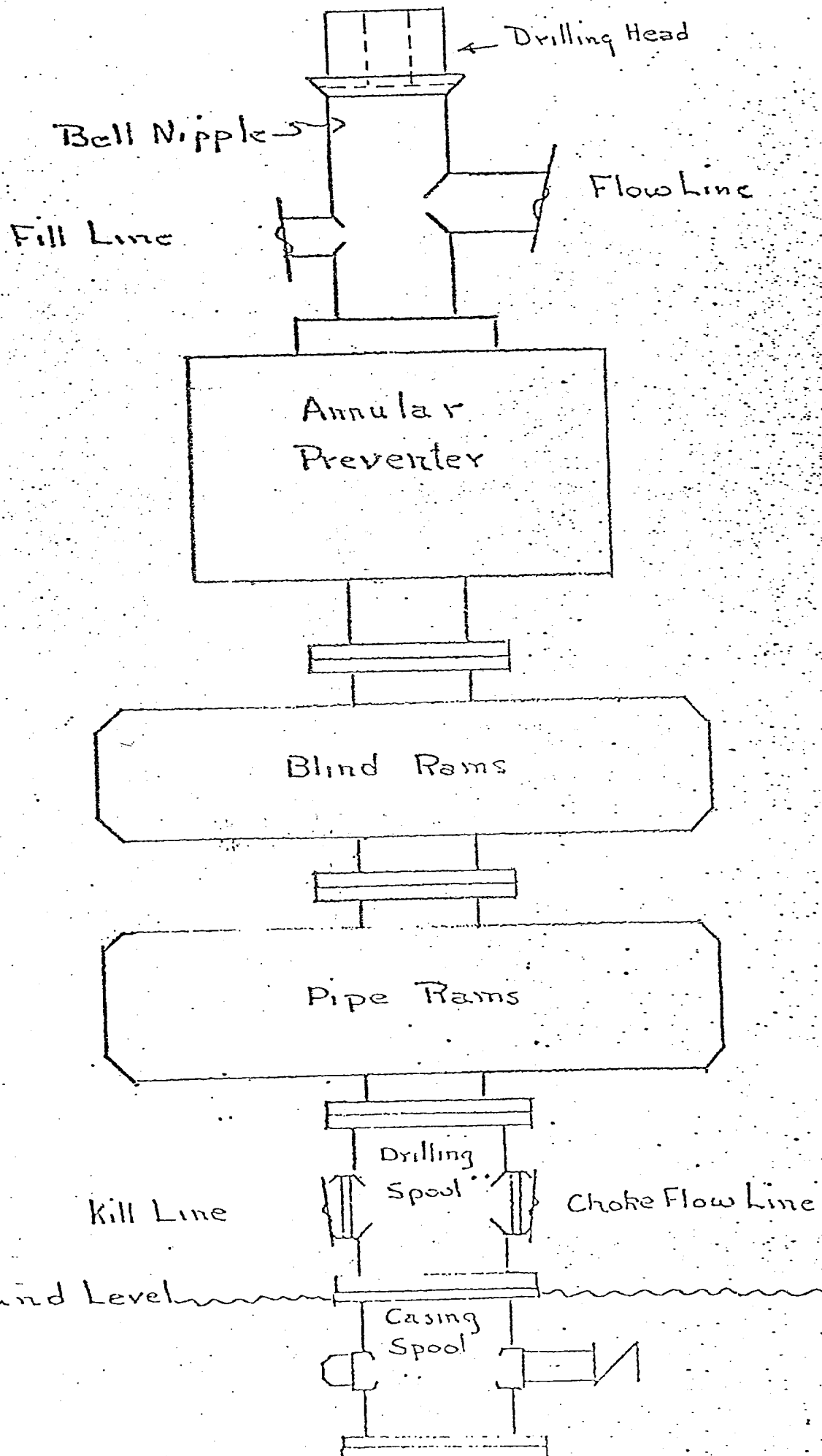
Surface: 0 - 600'
Fresh water gel/lime slurry

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

Production: 3000' - T.D.
Fresh water and lime to 8500'.
At 8500' 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.

THE BLOWOUT PREVENTER STACK

5,000 psi Working Pressure



Manifold Diagram

