

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

New Well

SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Southern Union Production Company -

3. ADDRESS OF OPERATOR

1700 Campbell Centre

8350 North Central Expressway Dallas, Texas 75206

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

At surface

660' FNL, 1650' FWL

At proposed prod. zone

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

Approximately 12 miles West of Carlsbad, New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

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

660'

16. NO. OF ACRES IN LEASE

1200

17. NO. OF ACRES ASSIGNED TO THIS WELL

160

18. DISTANCE FROM PROPOSED LOCATION*

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

19. PROPOSED DEPTH

10,700'

20. ROTARY OR CABLE TOOLS

Rotary

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

3874.0 GR

22. APPROX. DATE WORK WILL START*

On or before 8/31/74

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-3/4"	10-3/4"	30#	1,620'	1620
9-1/2"	7-5/8"	26.4# & 29.7#	8,000'	750
6-1/2"	4-1/2"	11.6#	10,700'	750

Drill 12-1/4" hole to 1,620'. Set 10-3/4" casing. Circulate cement to surface.

Drill 9-1/2" hole to 8,000'. Set 7-5/8" casing. Cement with 750 sacks.

Drill 6-1/2" hole to 10,700'. Set 4-1/2" casing. Cement with 750 sacks.

Run required amount of tubing.

Perforate, stimulate, and test Morrow Zone as required by rules and regulations.

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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 Manager, Drilling & Prod.

DATE June 20, 1974

(Leave space for Federal or State office use)

SUBJECT TO ATTACHED DEEP WELL CONTROL

REQUIREMENTS DATED JUN 22 1973

TITLE

DATE

THIS APPROVAL IS REVOKED IF OPERATIONS
ARE NOT COMMENCED WITHIN 3 MONTHS.
EXPIRES NOV 1 - 1974

*See Instructions

DECLARED WATER BASIN

CIRCULATED

WITNESS CEMENTING THE 10 3/4" CASING

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Superseded C-128
Effective 10-1-5

All distances must be from the outer boundaries of the Section

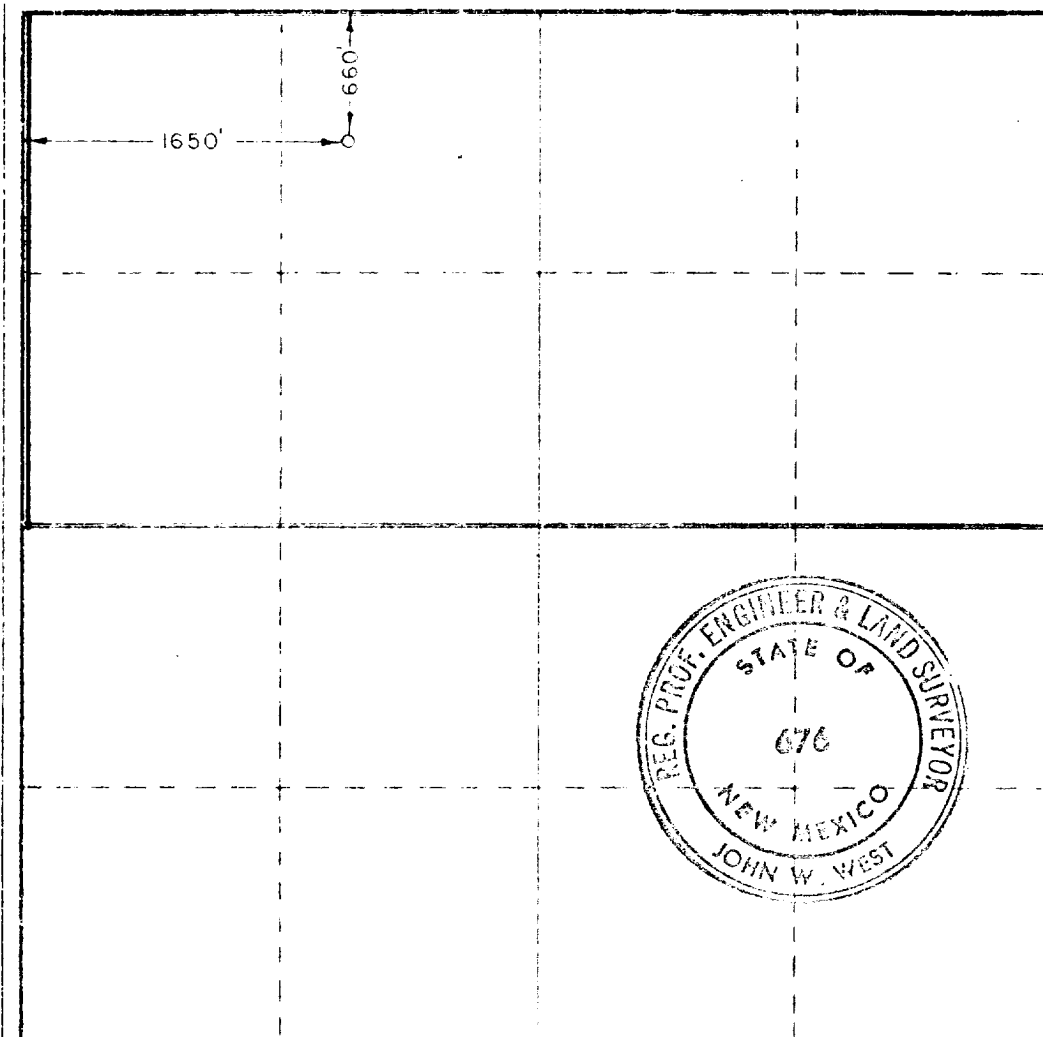
SOUTHERN UNION PRODUCTION CO.			Lessee SHELBY FEDERAL SIXE LXXXVXVXVXVXV		Well No. 3
Section C	Section 13	Township 22 SOUTH	Range 24 EAST	County EDDY	
Actual Location of Well:					
660 feet from the		NORTH	1650 feet from the		WEST
Ground level Elev. 3874.0	Producing Formations Cisco Canyon and Morrow		Pool Wildcat	Dedicated Acreage: 320	

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.

Neil W. Weldon
Name **Neil W. Weldon**
Mgr., drlg & production Co.

Position **SOUTHERN UNION PRODUCTION**

Surveyed **June 25, 1974**

Date

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I hereby certify that the well 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.
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Date surveyed **JUNE 11, 1974**

Registered Professional Engineer and or Land Surveyor

John W. West
676

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600

DEVELOPMENT PLAN FOR SURFACE USE

- I Existing Roads
 See Enclosed plat.
- II Planned access roads
 Will build 1/4 mile
- III Location of existing wells
 See enclosed plat
- IV Lateral roads to well locations
 A lateral road of 1640' off existing road.
- V Location of tank battery and flow lines
 See enclosed completion plat
- VI Location of drilling water source
 All water will be trucked in
- VII Methods of Waste disposal
 Water disposal will be by evaporation and the
 cuttings will be by burial.
- VIII Location of camps
 None
- IX Location of airstrips
 None
- X Location Layout
 See enclosed drill site
- XI Plans for restoration of surface
 Any surface alteration will be returned to its present
 condition
- XII Enviromental. Impact
 Any permanent installations shall be made to blend
 into and be as inconspicuous and as compatible with the
 enviroment as possible and is usual.

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SECTION PLAT

SUG-5773

SECTION

13

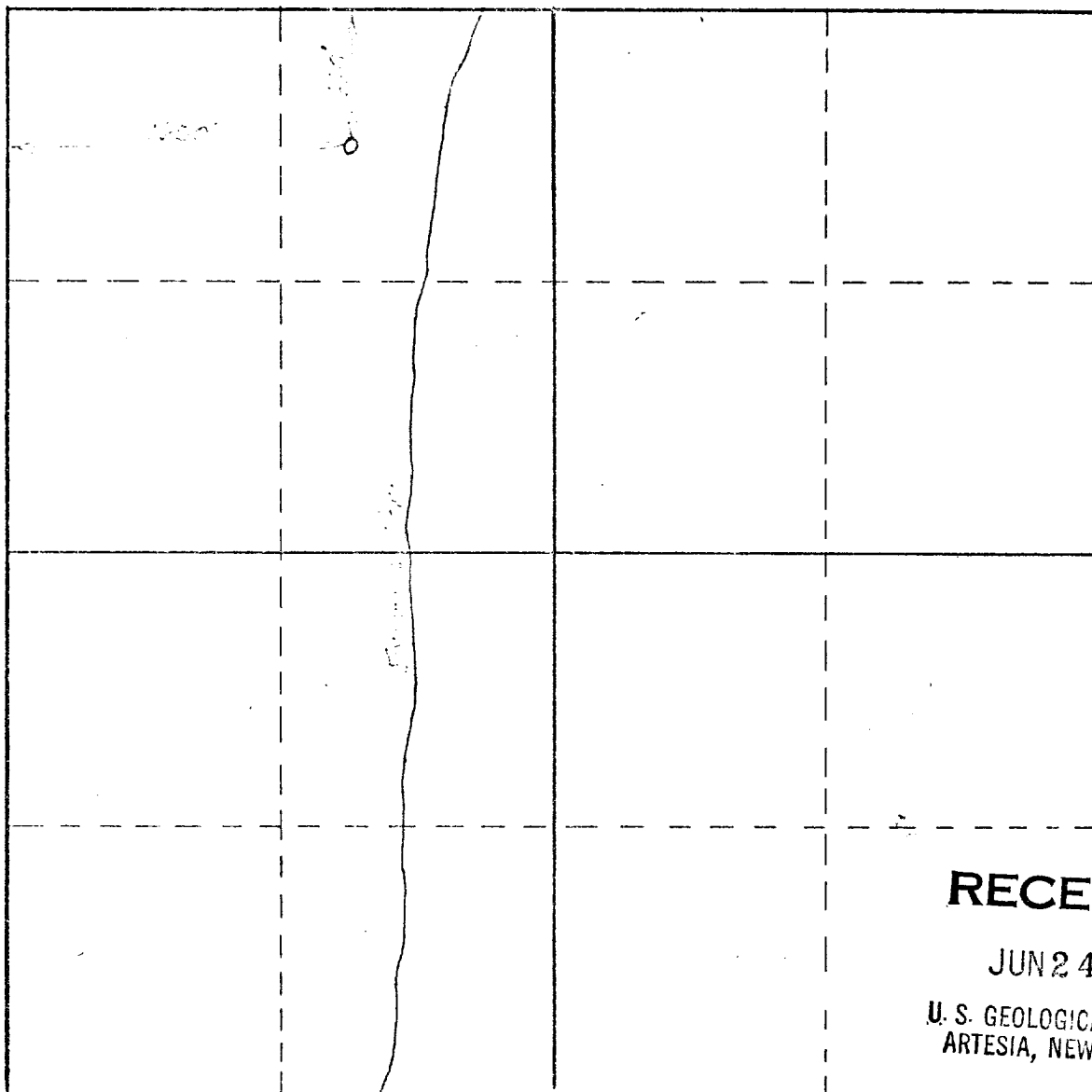
TOWNSHIP

24 South

RANGE

24 East

Existing Road at Section Corner
Shelby-Flamingo Co. Line



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TOWNSHIP NO. 22 South OF RANGE NO. 24 East

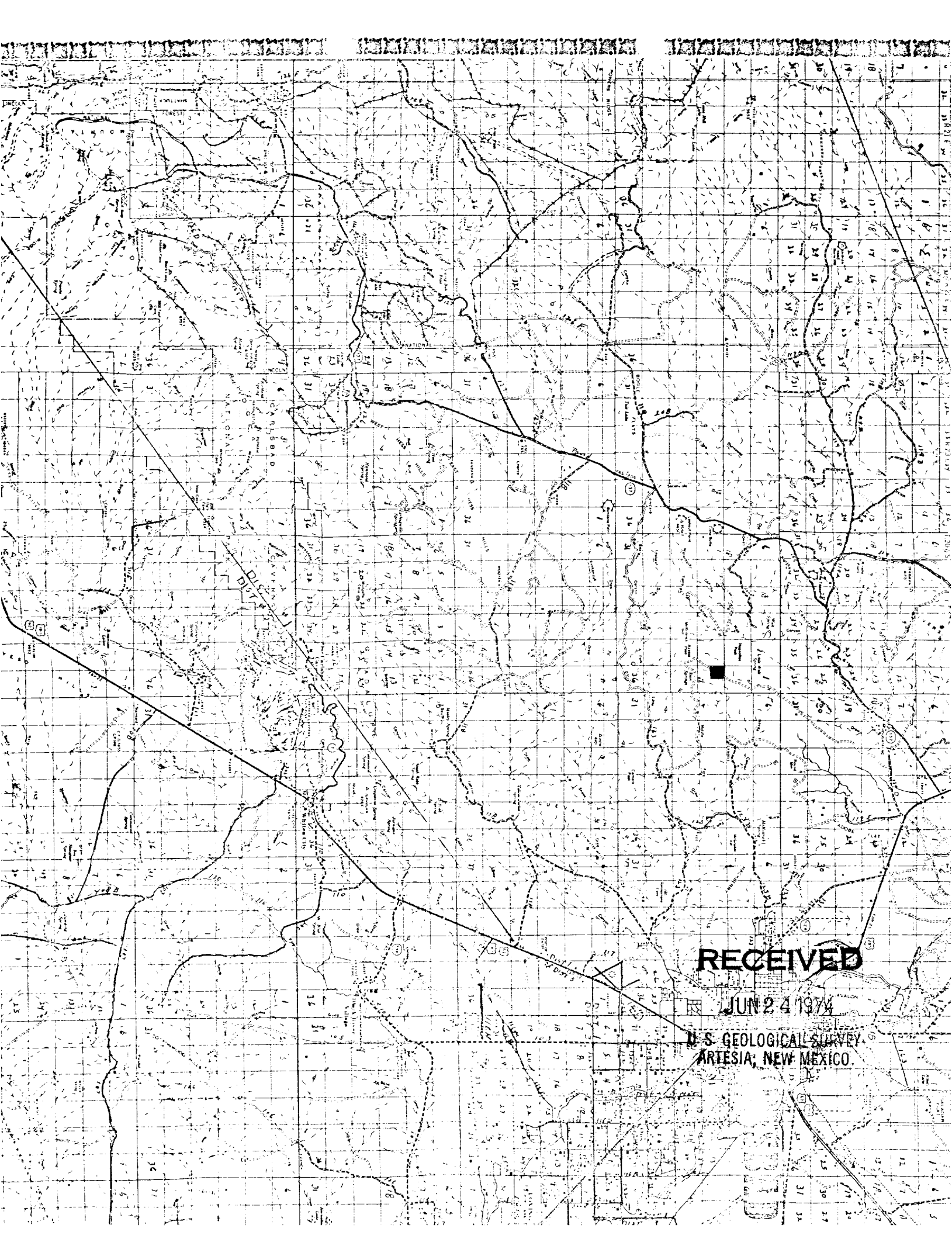
212 Street, London, W.C.2

607081 *See* 607079

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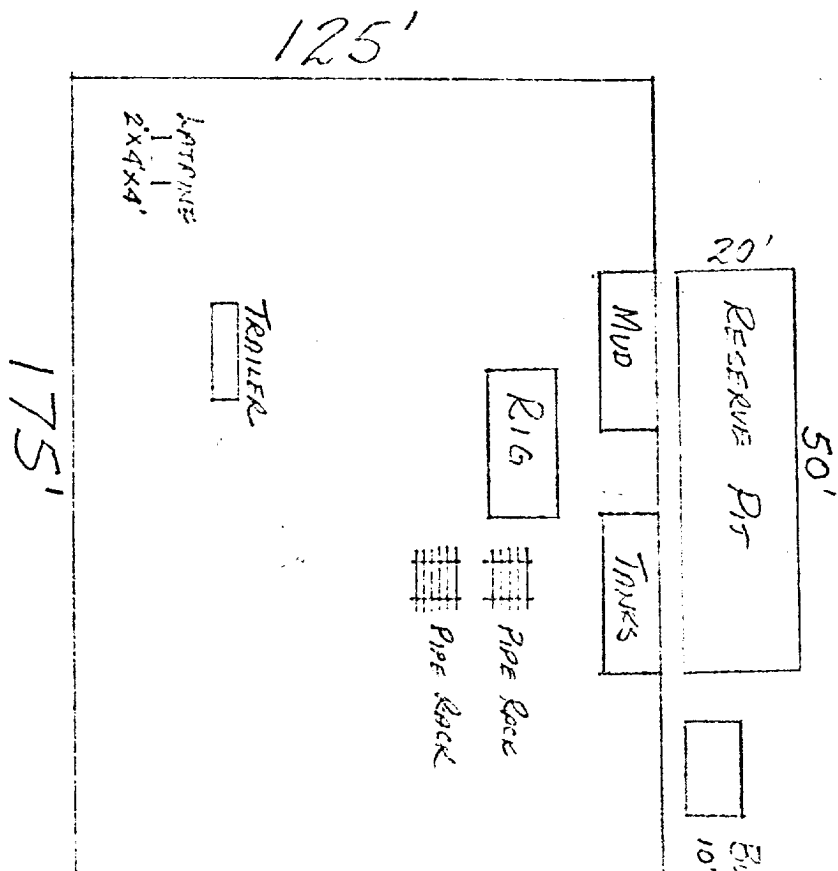


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DEER SITE layout
SHELBY FEDERAL No. 3



Across Road - Approx 1/4 mile

EXISTING ROAD

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SHELBY FEDERAL NO. 3

Mud Program - Typical

Set 10-3/4" casing at 1620'

Drill 0 to 8000' w/a chemically treated mud having the following properties:

Weight	8.8 - 9.3#/gal
viscosity	34 - 40 sec/liter
Water Loss	20.0 cc or less
PH	9.0 - 10.0

Set 7-5/8" casing at 8000'

By 8000' and to TD of 10,700' - the mud should have the following characteristics:

Weight	9.0 - 9.3#/gal
Viscosity	38 - 40 Sec/liter
Water Loss	5.0 cc down to 10,000' than 3.0 cc to TD
PH	9.0 - 9.5

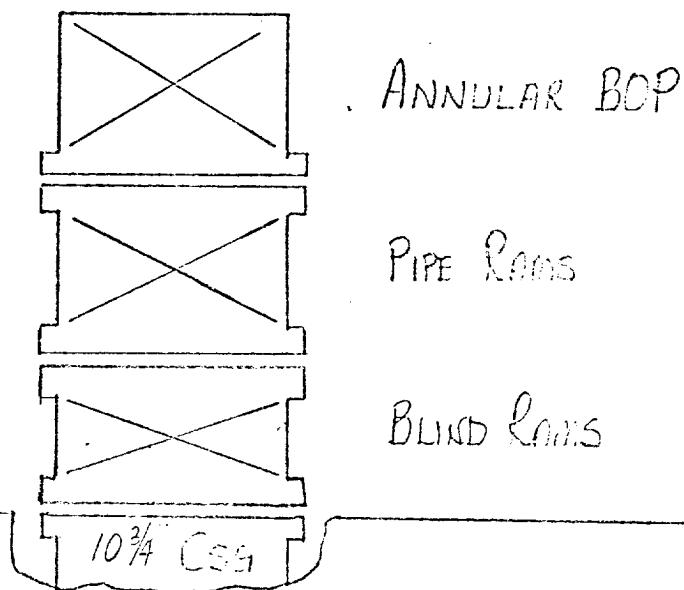
No severe lost circulation or geo-pressured zones are expected.

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SUP
SHELBY FEDERAL No. 3



BOP
SCHEMATIC - TYPICAL
WP - 5000 psi

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ROTATING
DRILLING
HEAD:

or

SPOOL

FILL CONNECTIONS

2" Outlet

DRILLING NIPPLE

11 1/2"

FLOW LINE

4" Outlet

HYDRIL

BOP

Hydril BX
900 Series

SPOOL 12" X 900 Series

WP

5000 psi

FLOW LINE

4" Outlet

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TO
CHOKES

TO
CHOKES

BOP

12" X 900 Series
Double Check
Type E Hydraulic

BLIND

RAMS

BOP

PIPE

RAMS

FLANGE

12" X 900 Series

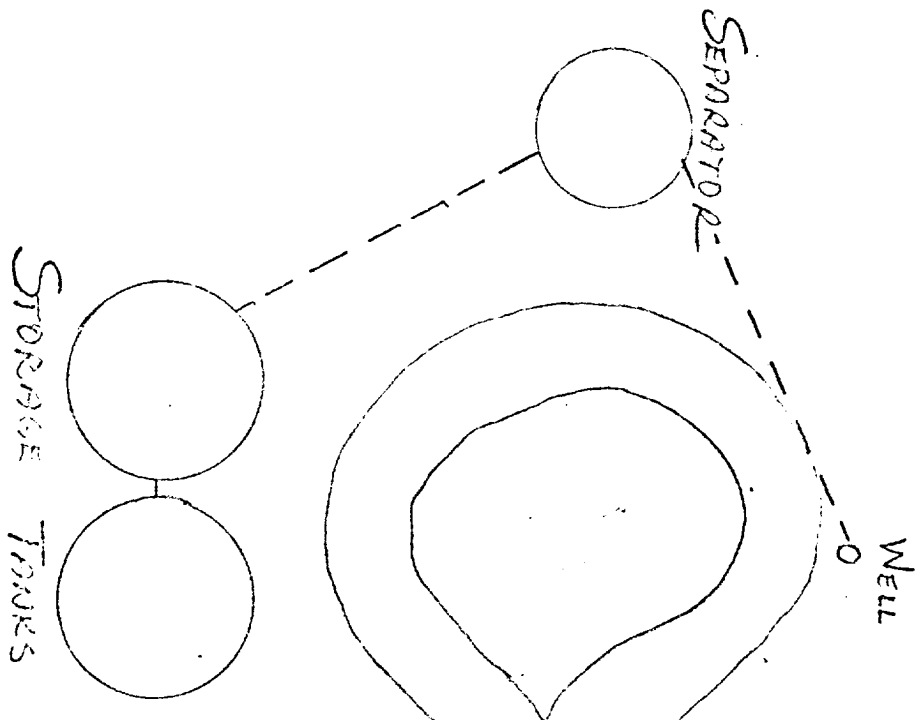
TO
CHOKES

KILL
LINES

WP 5000 psi

WP 5000 psi

LOCATION OF TANK BATTERY
AND FLOW LINE
SUP
SHELF FEDERAL NO. 3



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