Form 3160-3
(July 1992)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

FORM APPROVED
OMB NO. 1004-0136
Expires: February 28, 1995

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

5. LEASE DESIGNATION AND SERIAL NO.
SF NM 0-81171-K

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

1a. TYPE OF WORK
DRILL [X] DEEPEN [ ]

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

8. FARM OR LEASE NAME, WELL NO.
ERIN #9 3326

2. NAME OF OPERATOR
5337
Coulthurst Management & Investments, Inc.

9. API WELL NO.
30-043-20939

3. ADDRESS AND TELEPHONE NO.
1990 Marin Ave. Berkeley CA. 94707 5105272659

10. FIELD AND POOL, OR WILDCAT
53630
South San Luis MV

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface
990'FNL, 2310' FEL Sec 33, T18N R3W
At proposed prod. zone
Cretaceous Menefee & Point Lookout

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
B 33, T18N, R3W

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
3.5 Miles South of Torreon Navajo Mission

12. COUNTY OR PARISH: Sandoval
13. STATE: NM

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 990'

16. NO. OF ACRES IN LEASE: 520

17. NO. OF ACRES ASSIGNED TO THIS WELL: ~~320~~ 40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: 660'

19. PROPOSED DEPTH: 850'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 6472.9' Gr

22. APPROX. DATE WORK WILL START*: 8-17-96

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
9 5/8"	J-55 7"	23#	85'	25 sacks
6 3/4 "	J-55 4 1/2"	10.5#	850'	145 Sacks

RECEIVED
MAR 25 1997
OIL CON. DIV.
DIST. 3

FILE

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, 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 AGENT DATE 6-15-96

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY Herbert A. Willebrand TITLE Area Manager DATE 7/23/96

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

NEW MEXICO OIL CONSERVATION COMMISSION

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.
COULTHURST MGMT. & INVEST. 5337	ERIN 3326	9

Unit Letter	Section	Township	Range	County
B	33	18 N	3 W	SANDOVAL

Actual Footage Location of Well:
990' feet from the NORTH line and 2310' feet from the EAST line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
6472.9'	MENEFEE	SOUTH SAN LUIS MV 53630	160 Acres

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

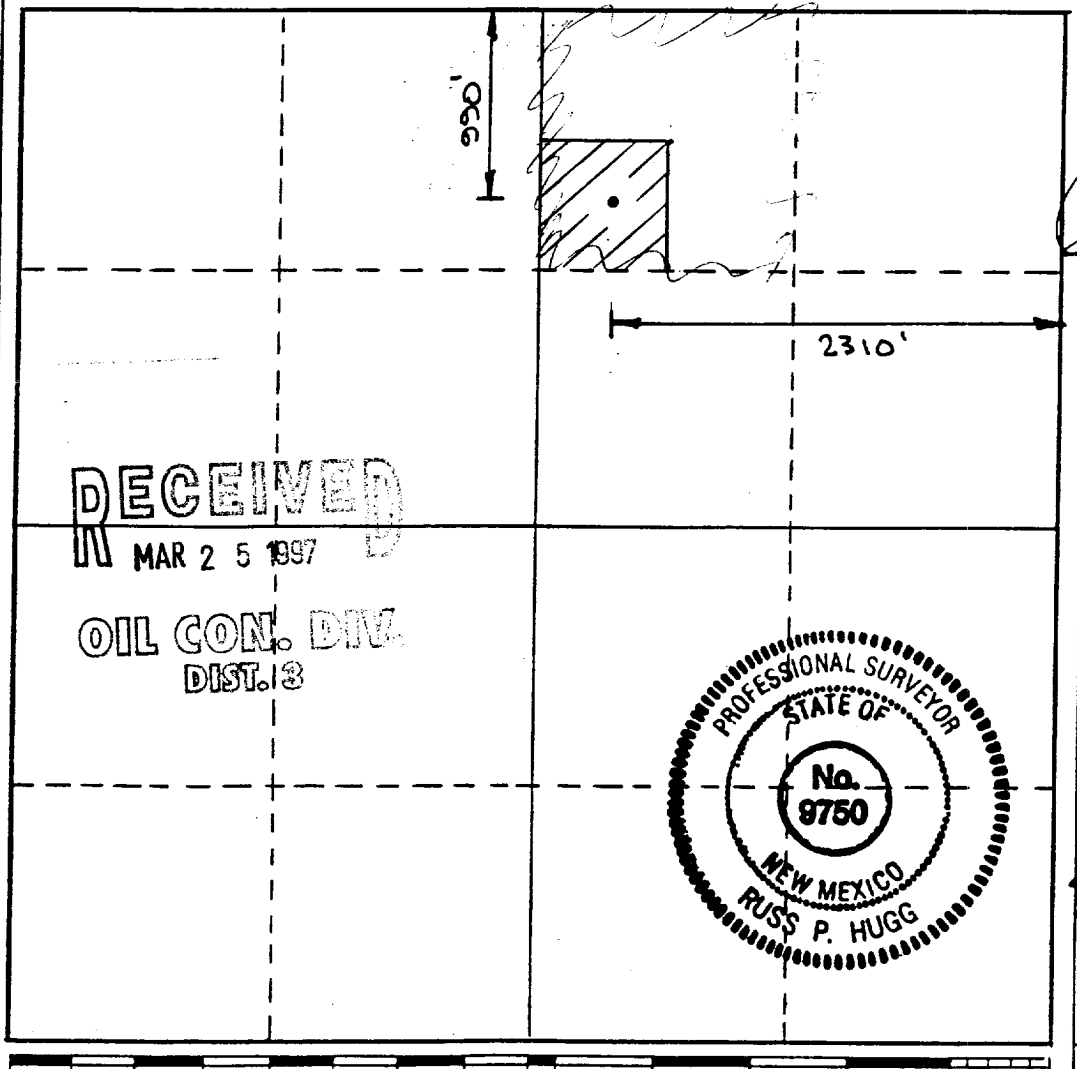
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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.



RECEIVED
MAR 25 1997
OIL CON. DIV.
DIST. 3

CERTIFICATION

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

Name: DAVID T WILSON

Position: AGENT

Company: COULTHURST MGT & INV INC

Date: 6/15/96

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.

JUNE 7, 1996

Date Surveyed

Registered Professional Engineer and/or Land Surveyor

9750

Certificate No.

DRILLING PROGRAM

Coulthurst Management & Investment Inc. ERIN #9

(1) Estimated tops of important geological markers. Surface to 345' upper Menefee sands, 346' to 850' middle and lower Menefee sands, 850' Point Lookout sands.

(2) Estimated depths to anticipated water, oil, or gas. The Menefee formation is interspersed with sands that contain oil and water in varying saturations. There are 19 sands in the proposed drilling section with water saturations varying from 40% to 100%. No gas is expected since none was encountered in nearby wells. Casing will be cemented to the surface to protect any water bearing sands.

(3) Pressure control equipment.
Pressure control equipment will meet the 2M system requirements by using a double ram 3M Townsend, Duke type unit which is the minimum available in this region. The unit will have pipe and blind rams.
The choke manifold equipment will conform to a 2M system using 3M or 5M components as available.
The BOPE will be tested to 1050 psi which will provide a 1.4 safety factor in a 850 foot well. This assumes a maximum pressure gradient of 1.0 psi per foot in a 850 foot well. A higher test pressure cannot be acheived without exceeding the rod load of the mud pump. The anticipated BHP is less than or equal to 150 psi.

(4) Supplementary information.
Menefee, Point Lookout well program.
Move in drilling rig.
1. Drill 9 5/8" hole to 85'
2. Run 85' of 7" J-55 23# surface casing and cement to surface using 25 sacks of cement.
3. Wait on cement 24 hours.
4. Drill 6 3/4" hole to 850' using low water loss bentonite mud with viscosifier.
5. Set 850' of 4 1/2" J-55 10.5# with 3-4 centralizers.
6. Cement to surface using 145 sacks.
7. Wait on cement 24 hours.

(5) Type and characteristics of drilling fluid.
Bentonite mud with fluid loss additives and thinners will be used. Mud will be checked for weight and vicosity by drilling contractor, fluid loss will be monitored by mud engineer. No weighted material will be used. Mud will be contained in 2 8' x 12' plastic lined mud pits along with an 8' x 12' plastic lined reserve pit.

(6) Anticipated testing, logging, coring.
No pre-production testing will occur. No coring is anticipated. Logs will be run from surface to T.D. and will include Gamma, SP, porosity and resistivity.

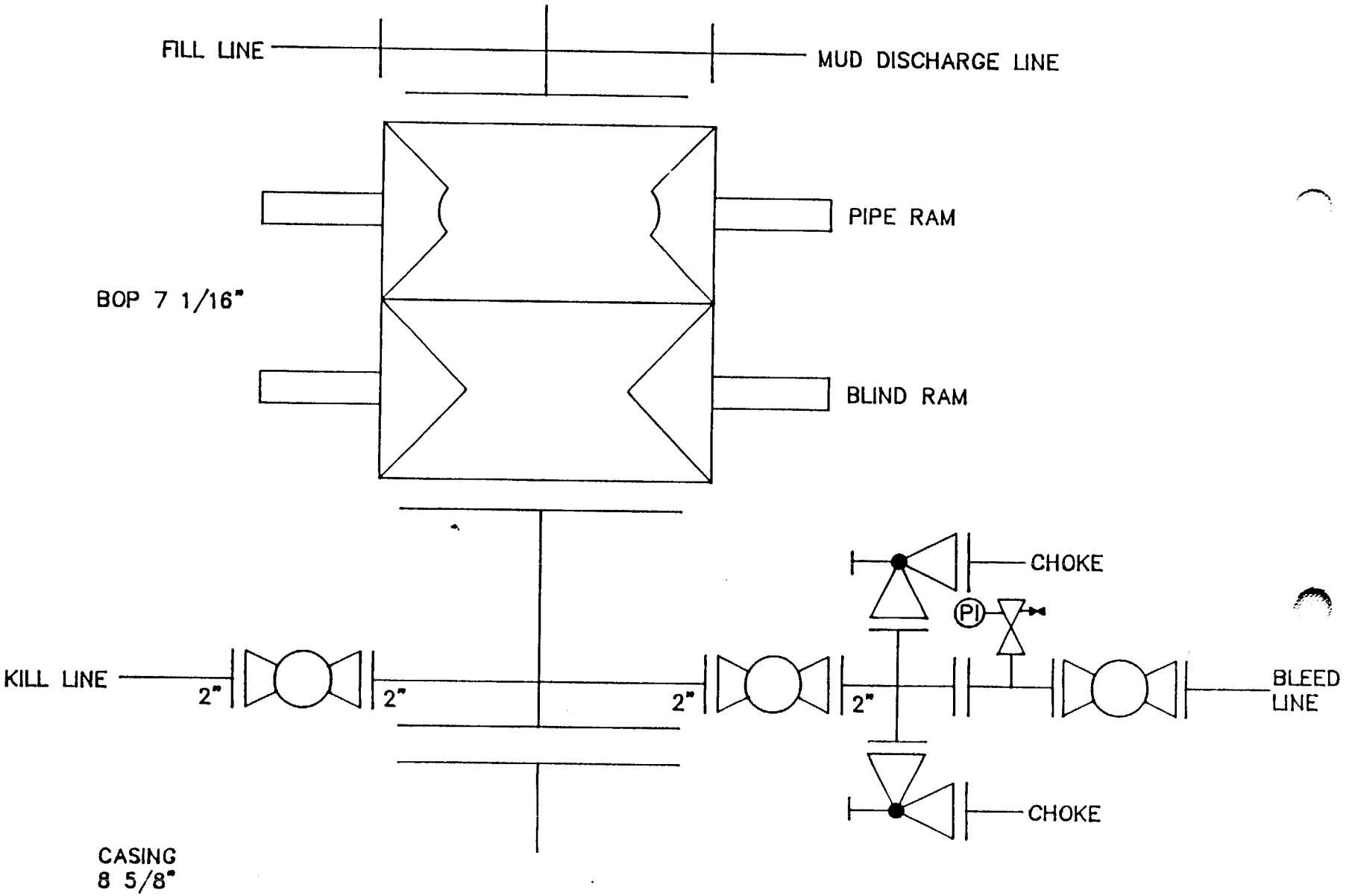
(7) Expected bottom hole pressure and temperature.
The expected bottom hole pressure will be 155 psi. The

(7) cont.

expected bottom hole temperature will be 65 F. No gas or hazardous gas is expected.

(8) Other facets of proposed operation.
None.

2 M BOPE


FILL LINE
MUD DISCHARGE LINE
PIPE RAM
BOP 7 1/16"
BLIND RAM
CHOKE
PI
KILL LINE
2"
2"
2"
2"
BLEED LINE
CHOKE
CASING
8 5/8"

SURFACE USE PROGRAM
Coulthurst Management & Investment Inc.

(1) Existing roads.
Map b. (1) is a portion of the Quadrangle Maps of State of N.M. #28 at a scale of 1=190,080. The location can be reached by turning south off N.M. SR 197 (19 miles west of Cuba N.M.) onto 197 A then 3 miles to the Torreon Navajo Mission. Map b. (1a) is a portion of the Wolf Stand U.S.G.S. 1=24,000 map. Turn east onto the Big Cornfield Tank road, go South 3 miles to location access road, turn West onto location and proceed to Erin #2 and then East to Erin#9.

(2) Access road to be contructed or reconstructed.
Map b. (2) is a portion of the Wolf Stand U.S.G.S. topo map at a scale of 1=24,000. This map shows the existing roads built for the previous wells on the lease in blue. The new access road to be built to the Erin #9 is shown in red. The new access road will start at the nearest part of the existing road and continue to the Erin #9 location.

(3) Location of existing wells.
Map b. (3) shows the location of all existing wells within a radius of one mile of the Erin #9 location.

(4) Location of existing and / or proposed facilities if well is productive.
There are no existing facilities on the location. Map b. 4 shows the proposed location of production facilities on the well pad.

(4b) Off well pad .
Map b. (5) shows the location of the production line from the Erin #9 running to the heater treater at the Erin #2 location.

(5) Location of water supply and type.
Water will be pumped from the waste water pits at the Erin #2 or the tanks at Erin #4.

(6) Construction material.
The access road will be constructed of compacted earth. The surface is composed of alluvium,sandstone, and shale.

(7) Methods for handling waste disposal.
A. Drill cuttings will be left in pit until dry and then buried.
B. Drilling fluids will be allowed to dry in reserve pit and then buried.
C. Salts and chemicals. We do not anticipate the use of any harmful salts or chemicals. If , however, they are used we will dispose of them per your instructions.
D. Sewage. Portable toilets will be supplied. Waste from trailers will be drained into pits allowed to dry and buried.

(7) D. cont. Waste will be disposed of properly.
E. Garbage. Garbage and trash will be contained in a bin and hauled to an appropriate land fill.

F.Cleanup. When rig moves out location will be cleaned and all trash dealt with as above (E).
G. Produced oil and water during testing. Fresh water will be left in reserve pit to evaporate. Oil will be retained in the test tanks or tank battery. Small amounts of oil that are not collectible will be left in the reserve pit to dry and then buried.

(8) Ancillary facilities. No ancillary facilities such as a camp, airstrip, or yard are planned at this time.

(9) Well site layout. Map b. (9) is a plat showing the proposed drill pad and its approximate location with respect to topographic features. Map b (9a) is a cross section diagram of the drill pad with the cut and fill and the relation to the topography. Map b (9b) is a diagram of the rig layout on the pad.

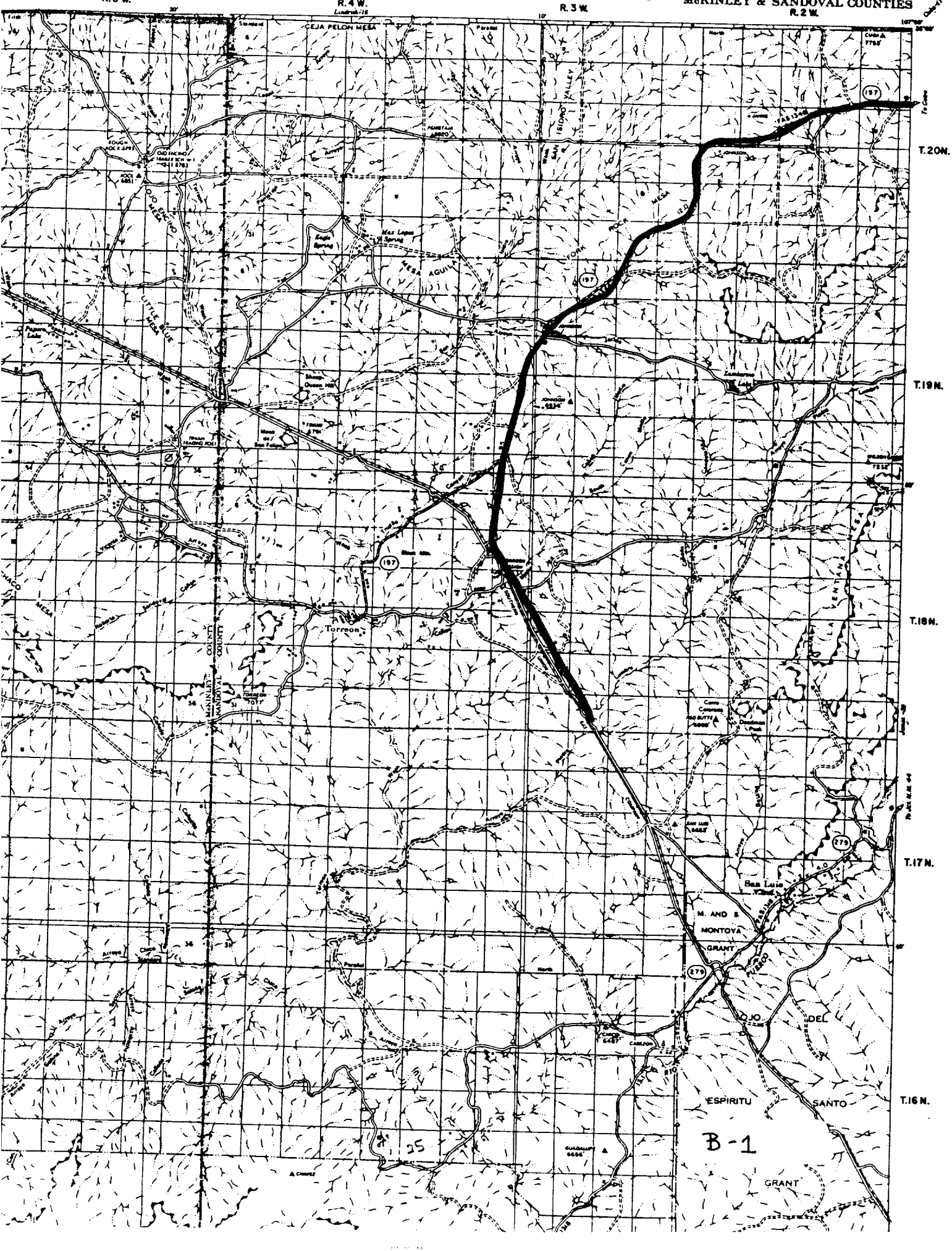
(10) Plans for the reclamation of the site. Surface reclamation of the site will be done according to BLM guidelines and will be commenced as soon as the pits dry sufficiently to allow burial. Revegetation will be done according to BLM guidelines as to the type of seed and amount.

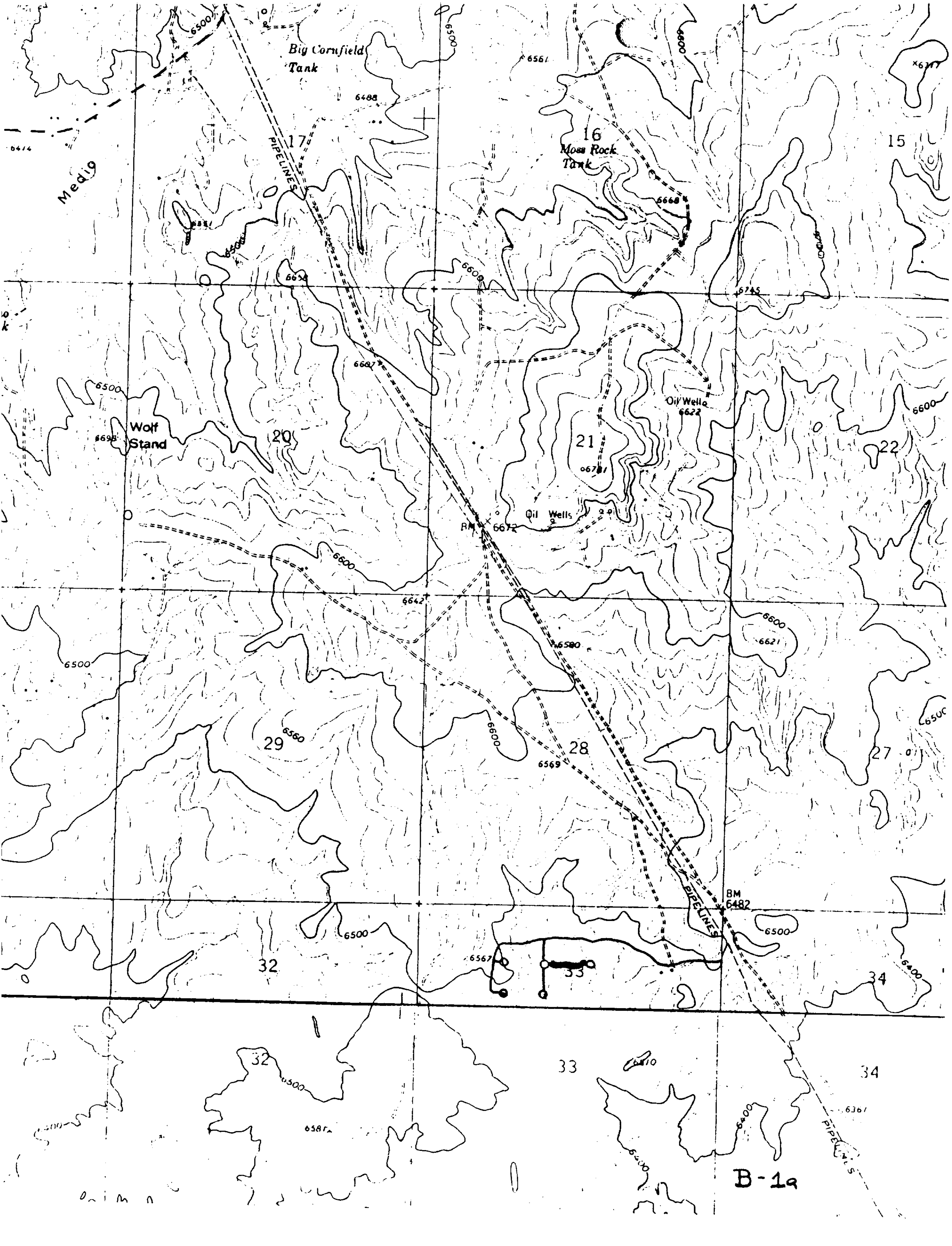
(11) Surface ownership. BLM holds the surface rights in stewardship for the American public.

(12) Other information. None Necessary.

DEPARTMENT
DIVISION

CABEZON QUADRANGLE-28
McKINLEY & SANDOVAL COUNTIES




Big Cornfield Tank
6500
6488
6561
16
Moss Rock Tank
17
15
PIPELINES
Medig
6668
6745
6600
6607
Oil Wells
6622
6500
Wolf Stand
20
21
22
BM 6672
Oil Wells
6642
6600
6580
6621
6500
6560
29
28
27
6569
6600
PIPELINES
BM 6482
6500
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6567
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34
6400
32
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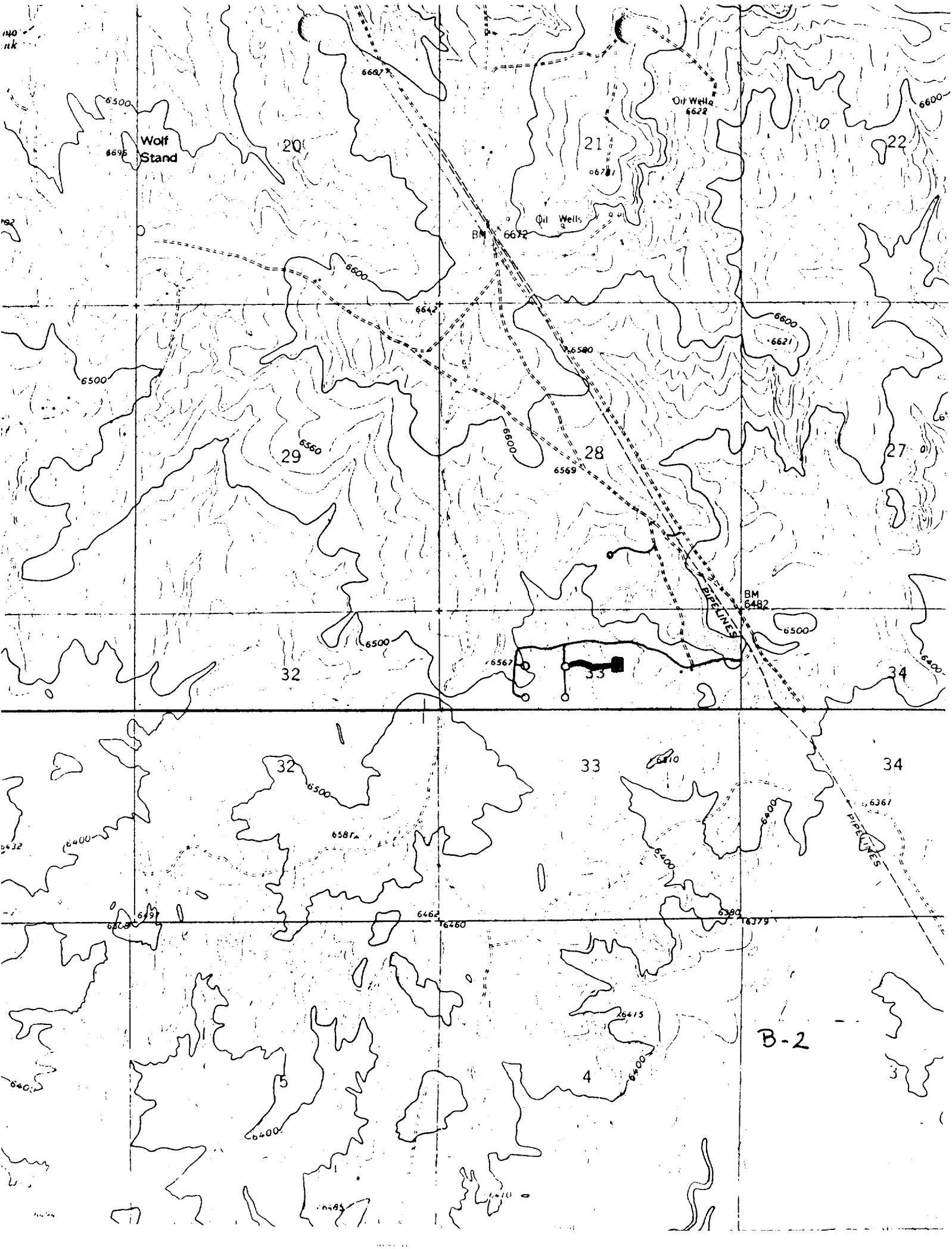
34
6500
6367
PIPELINES
6400
B-1a


Wolf Stand
Oil Wells
Oil Wells
BM 6672
BM 6482
PIPELINES
PIPELINES
20
21
22
29
28
27
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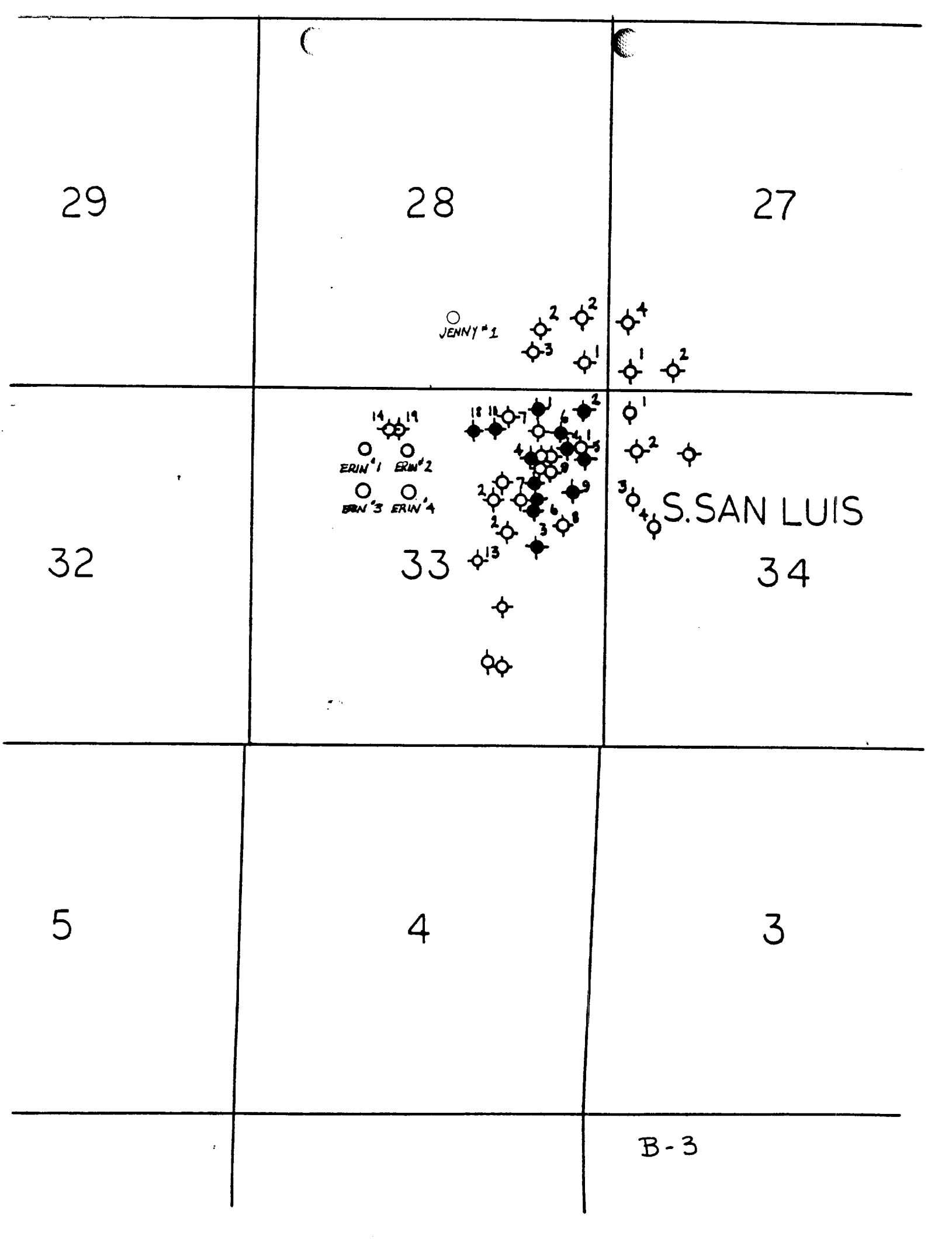
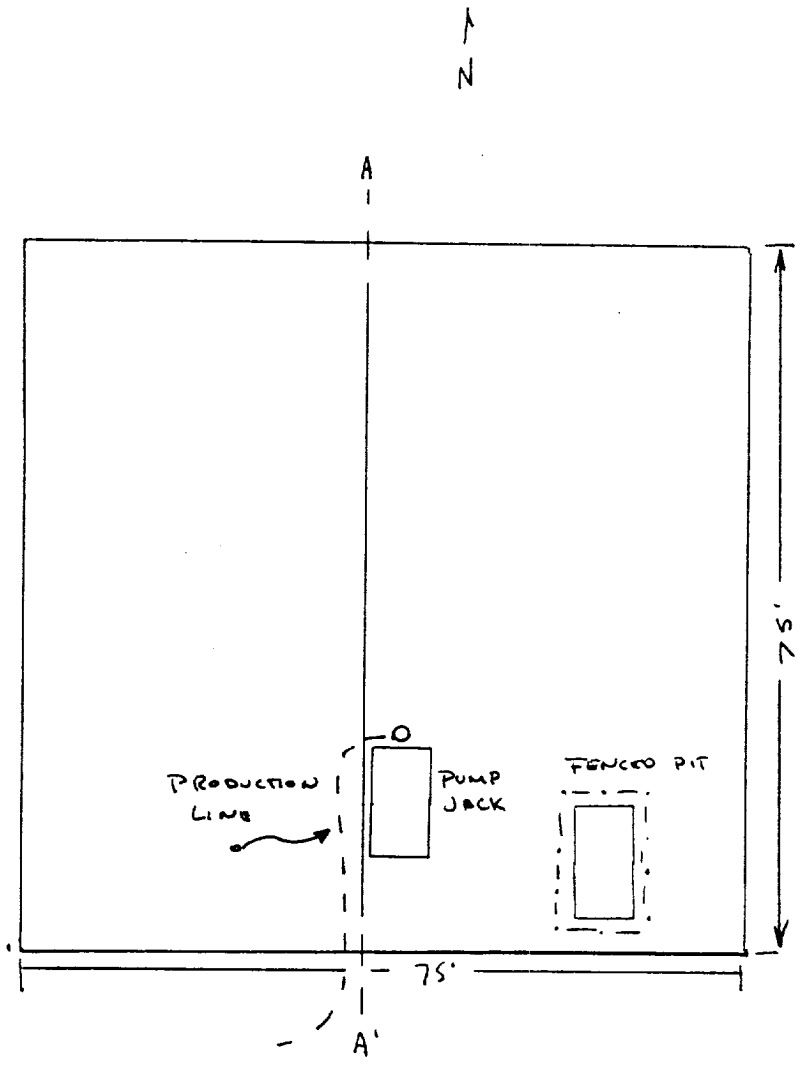
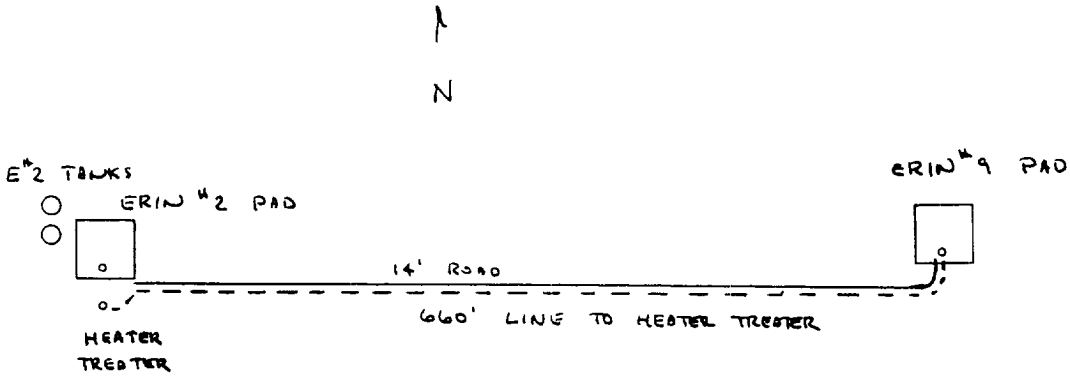
33
34
32
33
34
4
5
3
B-2

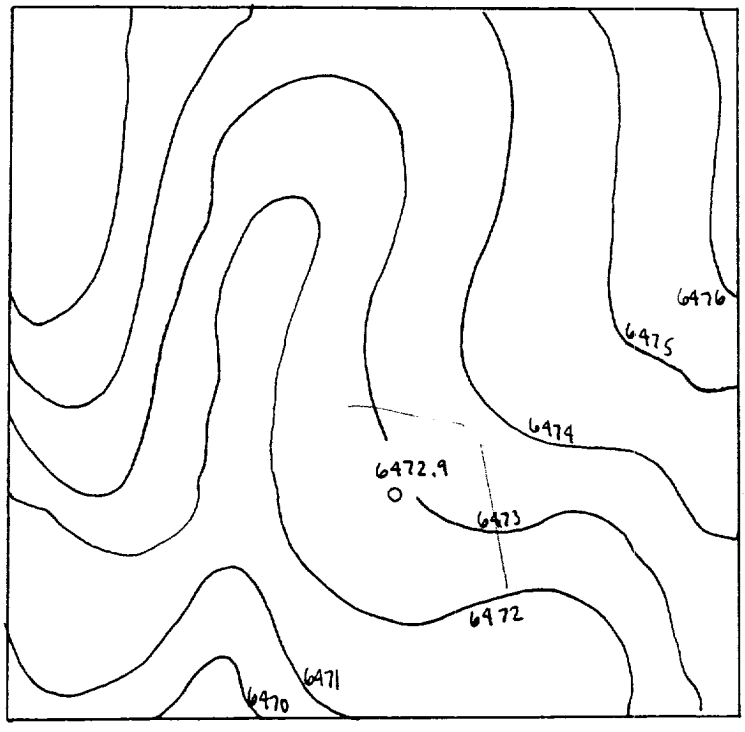


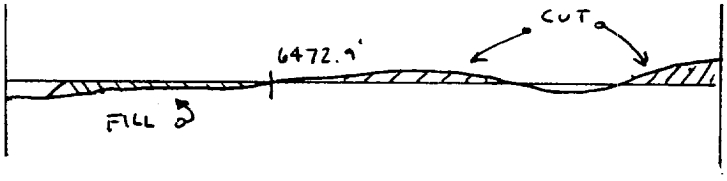
B-3

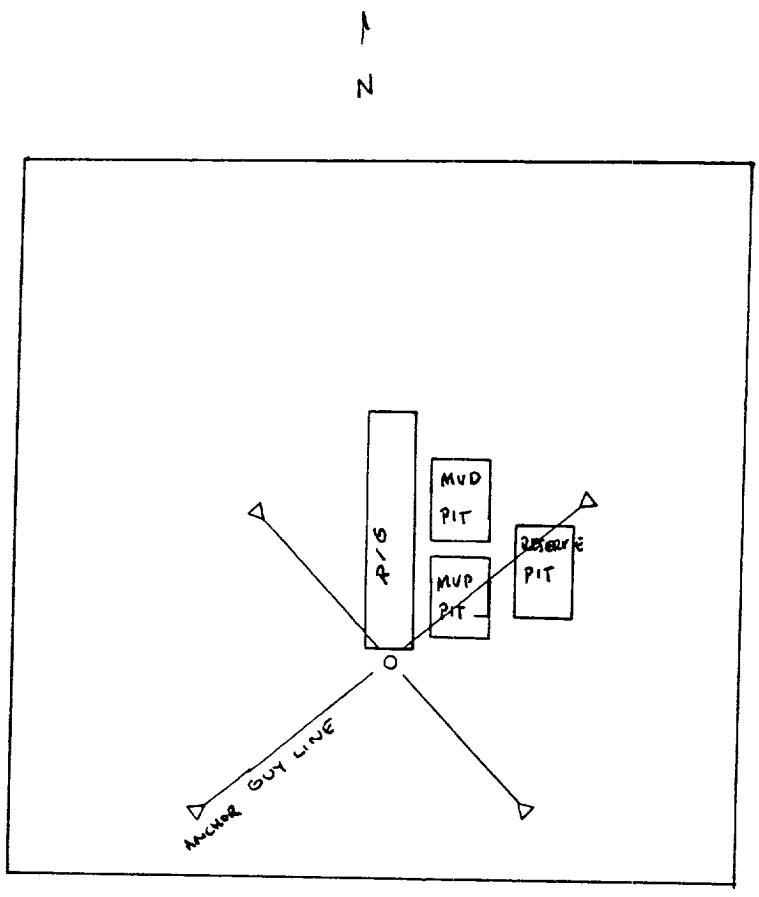

N
A
75'
PRODUCTION LINE
PUMP JACK
FENCED PIT
75'
A'


N
E#2 TANKS
ERIN #2 PAD
ERIN #9 PAD
14' ROAD
660' LINE TO HEATER TREATER
HEATER
TREATER

N




CUT
6472.9'
FILL



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