Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

30-045-24194

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 [X] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: Tenneco Oil Company

3. ADDRESS OF OPERATOR: 720 South Colorado Blvd. Denver, Colorado 80222

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1720 FNL 950 FWL
At proposed prod. zone:

5. LEASE DESIGNATION AND SERIAL NO.: NM 03998

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Bassett "B"

9. WELL NO.: 1

10. FIELD AND POOL, OR WILDCAT: Blanco Mesa Verde

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec 33, T30N, R10W

12. COUNTY OR PARISH: San Juan

13. STATE: New Mexico

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 6.5 Miles S.E. of Blanco, New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 161.12

16. NO. OF ACRES IN LEASE: 161.12

17. NO. OF ACRES ASSIGNED TO THIS WELL: 321.48

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

19. PROPOSED DEPTH: 5150'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 6094

22. APPROX. DATE WORK WILL START*: A.S.A.P

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 ¼"	9 5/8" new	36# K-55	± 250'	Circulate to surface
8 3/4"	7" new	23# K-55	± 3150'	Circulate to surface
6¼"	4½" new	10.5# K-55	± 5150'	Circulate to Linertop

See Attached

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FARMINGTON, N. M.

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OIL CON. COM.
DIST. 3

The Gas is Dedicated

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 M C DeLaman TITLE Staff Prod. Analyst DATE 1/25/80

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED
AS AMENDED
FEB 12 1980
JAMES F. SIMS
DISTRICT ENGINEER

*See Instructions On Reverse Side

ok Smith

NMOCC

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-102
Revised 10-1-78

All distances must be from the outer boundaries of the Section.

Operator	Lease	Well No.
TENNECO OIL COMPANY	BASSETT "B"	1

Unit Letter	Section	Township	Range	County
E	33	30N	10W	San Juan

Actual Footage Location of Well:
1720 feet from the North line and 950 feet from the West line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
6094	Mesa Verde	Blanco Mesa Verde	W 321.48 Acres

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

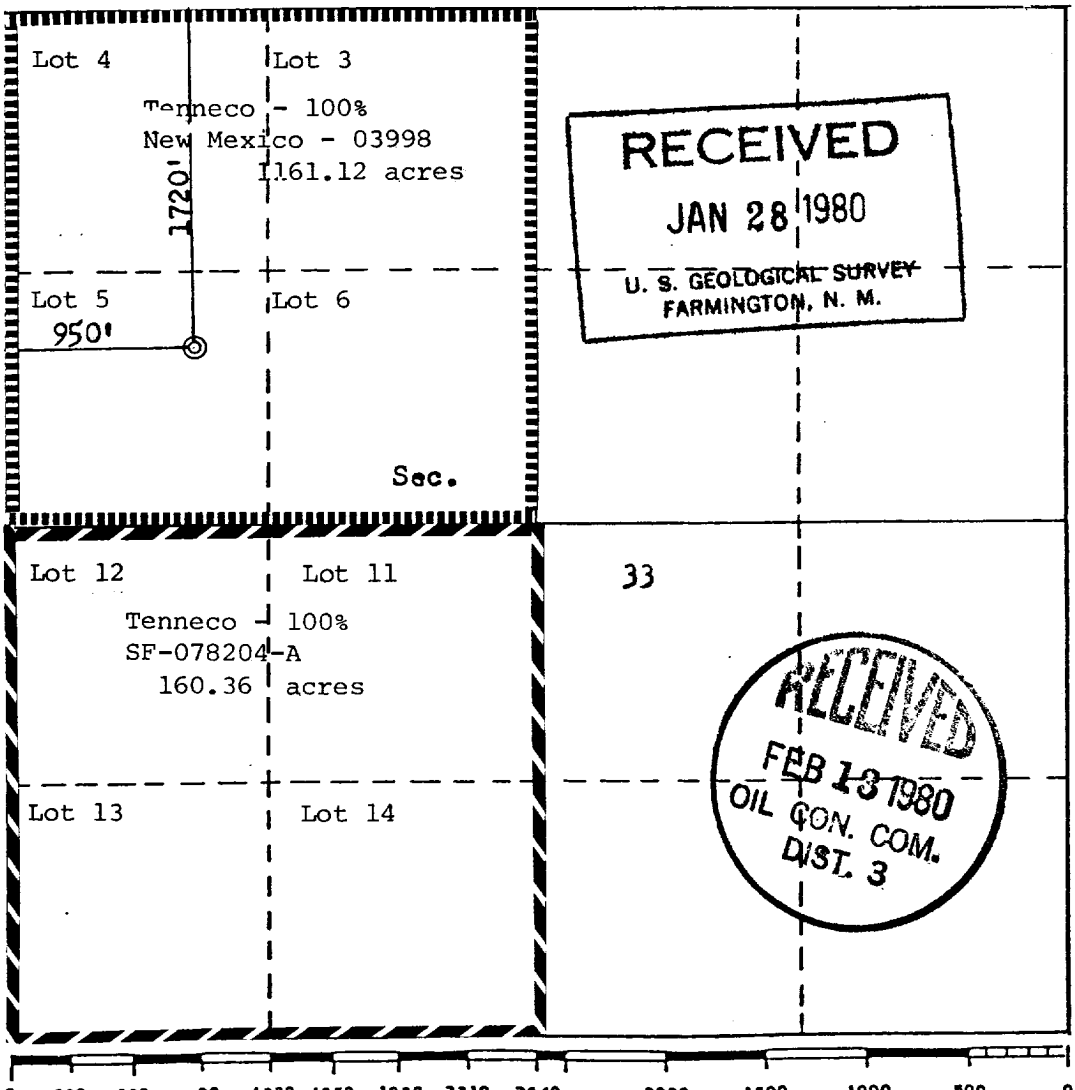
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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?

[X] Yes [ ] No If answer is "yes," type of consolidation Communitization

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.



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DIST. 3

CERTIFICATION

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

M. Lee Freeman

Name: M. Lee Freeman

Position: Staff Production Analyst

Company: Tenneco Oil Company

Date: 1/25/80

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.

Date Surveyed: November 5, 1979

Registered Professional Engineer and/or Land Surveyor

Fred B. Kerr Jr.

Certificate No. 3950

REGISTERED LAND SURVEYOR
STATE OF NEW MEXICO
FRED B. KERR JR.

TENNECO OIL COMPANY
ROCKY MOUNTAIN DIVISION
PENTHOUSE, 720 SOUTH COLORADO BOULEVARD
DENVER, COLORADO 80222

DRILLING PROGRAM

DATE: November 26, 1979

LEASE: Bassett

WELL NO.: B-1

LOCATION: 1720' FNL, 950' FWL
Sec. 33, T 30N, R 10W
San Juan County, New Mexico

FIELD: Blanco Mesaverde

ELEVATION: 6090' Est. D.F.

TOTAL DEPTH: 5150'

PROJECTED HORIZON: Mesa Verde

SUBMITTED BY: _____

APPROVED BY: _____

DK/ms

ESTIMATED FORMATION TOPS

OJO Alamo	1270	(Water)
Pictured Cliffs	2510	(Gas)
Lewis Shale	2625	(Drilling Est.)
Cliff House	4210	(Gas)
Memefee	4290	(Gas)
Point Lookout	4790	(Gas)
T.D.	5150	

Surface Formation: San Jose

No abnormal temperatures or pressures are expected.

DRILLING, CASING, AND CEMENT PROGRAM

1. Move in, rig up rotary tools.
2. Drill a 12 1/4" hole to ± 250'.
3. Run 9 5/8", 36#, K-55, ST&C casing to T.D.
4. Cement with Class B with 2% $CaCl_2$. Use sufficient volume to bring cement to surface.
5. Wait on cement a minimum of 12 hours. Nipple up blowout preventer and manifold with relief lines. Pressure test up to 600 psi for 30 minutes. Test pipe and blind rams.
6. Drill an 8 3/4" hole to 3150'. Catch 10' samples from the Pictured Cliffs (2510') to T.D. to insure penetrating the Lewis Shale 500'.
7. Run 7", 23#, K-55, ST&C casing to T.D.
8. Cement with 50/50 pozmix and tail in with 150 sx Class B cement with $CaCl_2$. Use sufficient volume to circulate to surface.
9. Wait on cement a minimum of 18 hours. Nipple up to gas drill. Pressure test to 1000 psi for 30 minutes.
10. Pick up 4 3/4" drill collars and 3 1/2" drill pipe. Drill cement guide shoe and to within 5' of shoe joint with water. Displace water with nitrogen. Displace nitrogen with gas and drill 5' of formation. Blow hole dry.
11. Drill a 6 1/4" hole with gas to T.D.
12. Run open hole logs.
13. Run 4 1/2" casing with liner to T.D. Run a minimum of 150' of overlap.
14. Cement with neat cement using sufficient volume to circualte cement to liner top.
15. Reverse out excess cement. Lay down 3 1/2" tubing. Install well head.
16. If well is non productive, plug and abandon as per USGS requirements.
17. RD. MORT.

CASING PROGRAM

0-250'	9 5/8", 36#, K-55, ST&C
250-3150'	7", 23#, K-55, ST&C
3000-5150'	4 1/2", 10.5#, K-55, ST&C

MUD PROGRAM

0-250'	Native solids, sufficient viscosity to clean hole. Use sweeps as necessary.
250-3150'	Low solids. Gel chemical.
3150-T.D.	Gas.

EVALUATION

Cores and DST's:

None.

Deviation Surveys:

1. Survey surface hole at 100' intervals. Maximum allowable at surface 1^{o}.
2. From surface to total depth, run surveys every 500' or every trip, whichever is first. This may entail running the TOTCO on wireline. Record each survey on the IADC Drilling Report Sheet. Maximum allowable change is 1^{o} per 100'.

Samples:

10' samples from 2510 to T.D. of intermediate. Insure penetrating the Lewis Shale by 500'.

Logs:

Induction/GR

Comp. Density/Neutron: T.D. to top of Cliff House.

BLOWOUT EQUIPMENT

10" 900-series, double ram hydraulic operated with closing unit and 40 gallon accumulator.

10" 900-series, rotating head, 7" blooie line, high pressure manifold with separate valves and discharge lines.

REPORTS

Drilling reports for the past 24 hours will include depth, footage, time distribution, activity breakdown, mud properties, bit record, bottom hole assembly, daily and cumulative mud costs, plus any other pertinent information, will be called into Tenneco Oil Company, Denver, Colorado, between 7:30 a.m. and 8:00 a.m.

1. 303-758-7130 (office) Don Barnes.
   303-758-7287 (office) Don Barnes' private line, Monday-Friday (before 7:45 a.m.)
2. 303-936-0704 (home) Don Barnes, weekends and holidays.
3. 303-795-0221 (home) John Owen, if Don Barnes is not available.

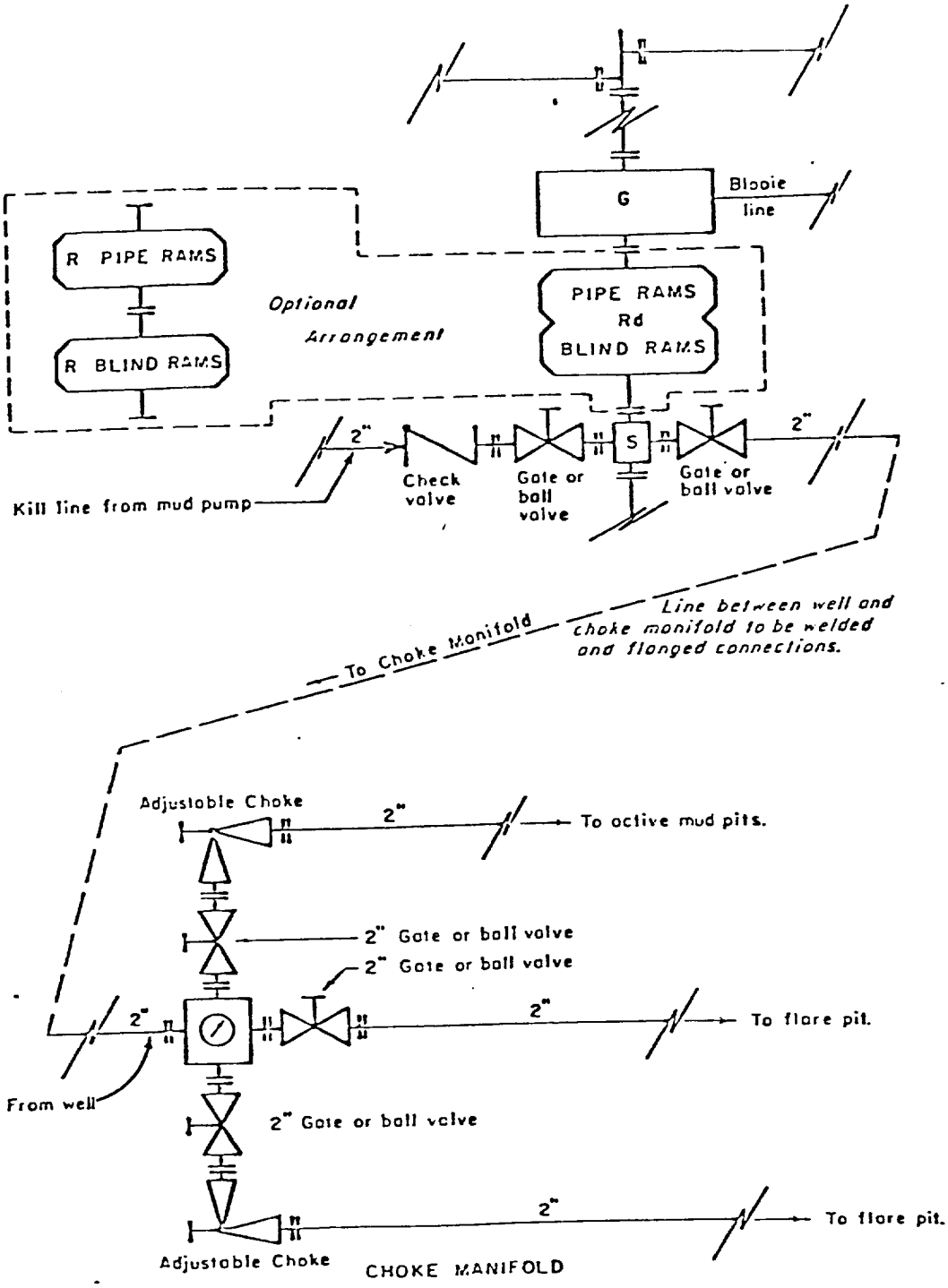
The yellow sheet of the IADC Report to be filled out completely, the original copy of the drilling time recorder, and copies of any invoices from this well, signed and received for Tenneco Oil Company will be mailed daily to:

TENNECO OIL COMPANY
ROCKY MOUNTAIN DIVISION
PENTHOUSE, 720 SOUTH COLORADO BOULEVARD
DENVER, COLORADO 80222

ATTENTION: Drilling Department

In case of emergency, notify the following:

1. Mr. Don Barnes, Division Drilling Engineer - 303-936-0704
2. Mr. John Owen, Project Drilling Engineer - 303-795-0221
3. Mr. Mike Lacey, Division Production Manager - 303-979-0509



All equipment to be 3,000 psi working pressure except as noted.

Rd Double ram type preventer with two sets of rams.

R Single ram type preventer with one set of rams.

S Drilling spool with side outlet connections for choke and kill lines.

G Rotating head 150 psi working pressure minimum

ARRANGEMENT C

TENNECO OIL COMPANY
ROCKY MOUNTAIN DIVISION

REQUIRED MINIMUM
BLOWOUT PREVENTER AN
CHOKE MANIFOLD

J. MAGILL 10-26-78 EVI

1. Existing Road - Please refer to Map No. 1 which shows the existing roads. New roads which will be required have been marked on this map. All existing and new roads will be properly maintained during the duration of this project.

2. Planned Access Roads - Please refer to Map No. 1. The grade of the access roads will be consistent with that of the local terrain. The road surface will not exceed twenty feet (20') in width. Upon completion of the project, the access road will be adequately drained to control soil erosion. Drainage facilities may include ditches, water bars, culverts or any other measure deemed necessary by trained Company personnel to insure proper drainage. Gates and/or cattleguards will be installed if necessary.

3. Location of Existing Wells - Please refer to Map No. 2.

4. Location of Tank Batteries, Production Facilities, and Production Gathering and Service Lines - Please refer to Maps No. 1 and No. 2. Map No. 2 shows the existing roads and new proposed access roads. All known production facilities are shown on these two maps.

5. Location and Type of Water Supply - Water for the proposed project will be obtained from a private source.

6. Source of Construction Materials - No additional materials will be required to build either the access road or the proposed location.

7. Methods of Handling Waste Materials - All garbage and trash materials will be put into a burn pit shown on the attached Location Plat No. 1. When clean-up operations are begun on the proposed project, the burn pit with its refuse will be buried to a depth of at lease three feet (3'). A latrine, the location of which is also shown on Plat No. 1. will be provided for human waste. If large amounts of liquids are left in the reserve pit after completion of the project, the pit will be fenced until the liquids have had adequate time to dry. The location clean-up will not take place until such time as the reserve pit can be properly covered over to prevent run-off from carrying any of these materials into the watershed. No earthen pit will be located on natural drainage; all earthen pits will be so constructed as to prevent leakage from occurring.

8. Ancillary Facilities - No camps or airstrips will be associated with this project.

9. Wellsite Layout - Please refer to the attached Plat No. 1.

10. Plans for Restoration of the Surface - After completion of the proposed project the location will be cleaned and leveled. The location will be left in such a condition that will enable reseeding operations to be carried out. Seed mixture as designated by the responsible government agency will be used. The reseeding operation will be performed during the time period set forth by the regulatory body. The location production equipment will be painted as designated by the responsible government agency.

11. Other Information - The proposed site is located in an area of eroding clay hills with southerly drainage pattern through many small arroyos. The soil is sandy clay supporting principal vegatation types of Juniper, Bitterbrush, Narrowleaf Yucca, Rabbit brush and Native grasses. The surface and minerals are hels in public domain.

12. Operator's Representative -

SEE DRILLING PROGNOSIS

13. Certification - I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements mad in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Tenneco Oil Company Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

_____

L. Freeman
Staff Production Analyst

LF/gh

TENNECO OIL COMPANY

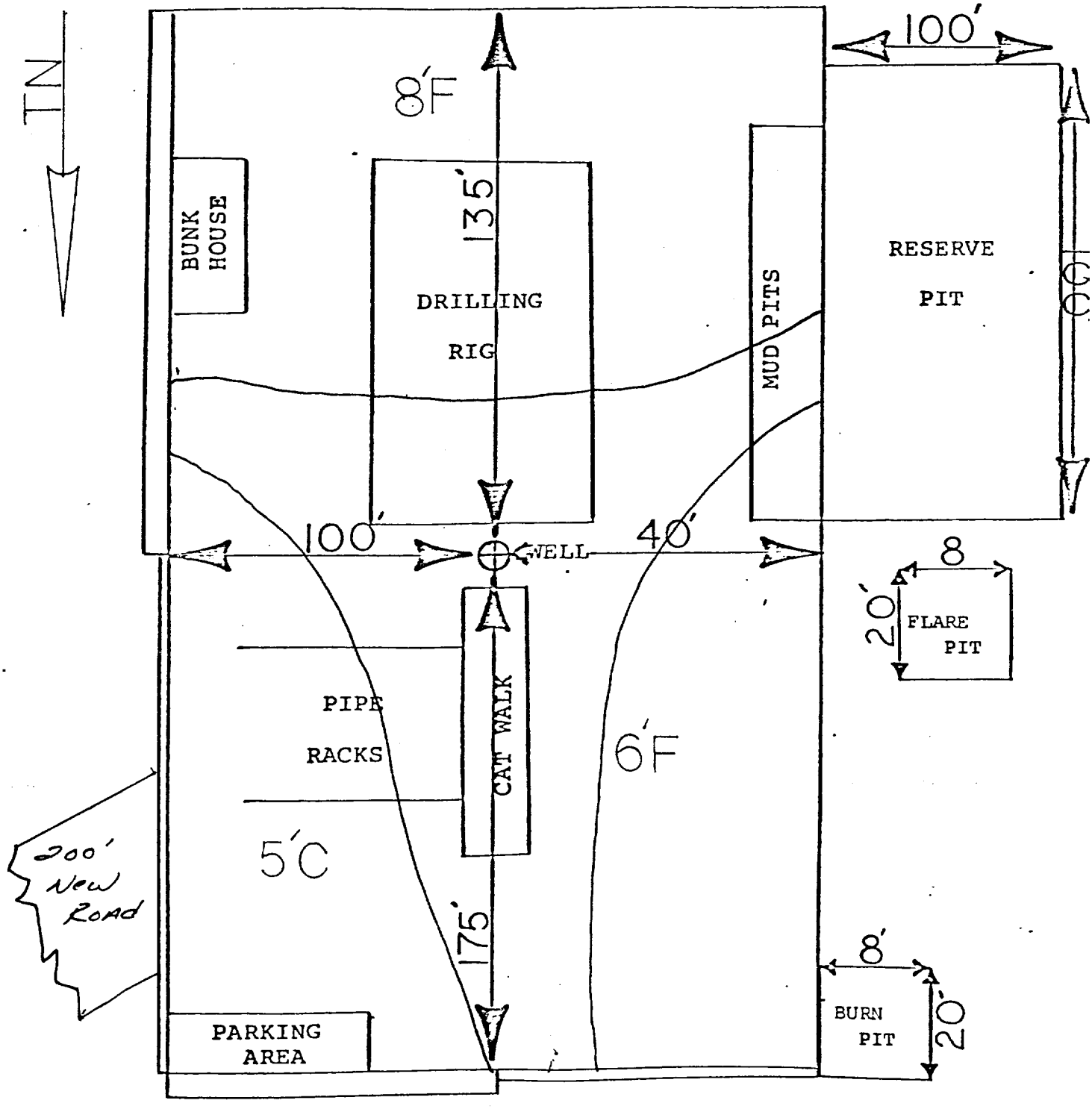
CALCULATION SHEET

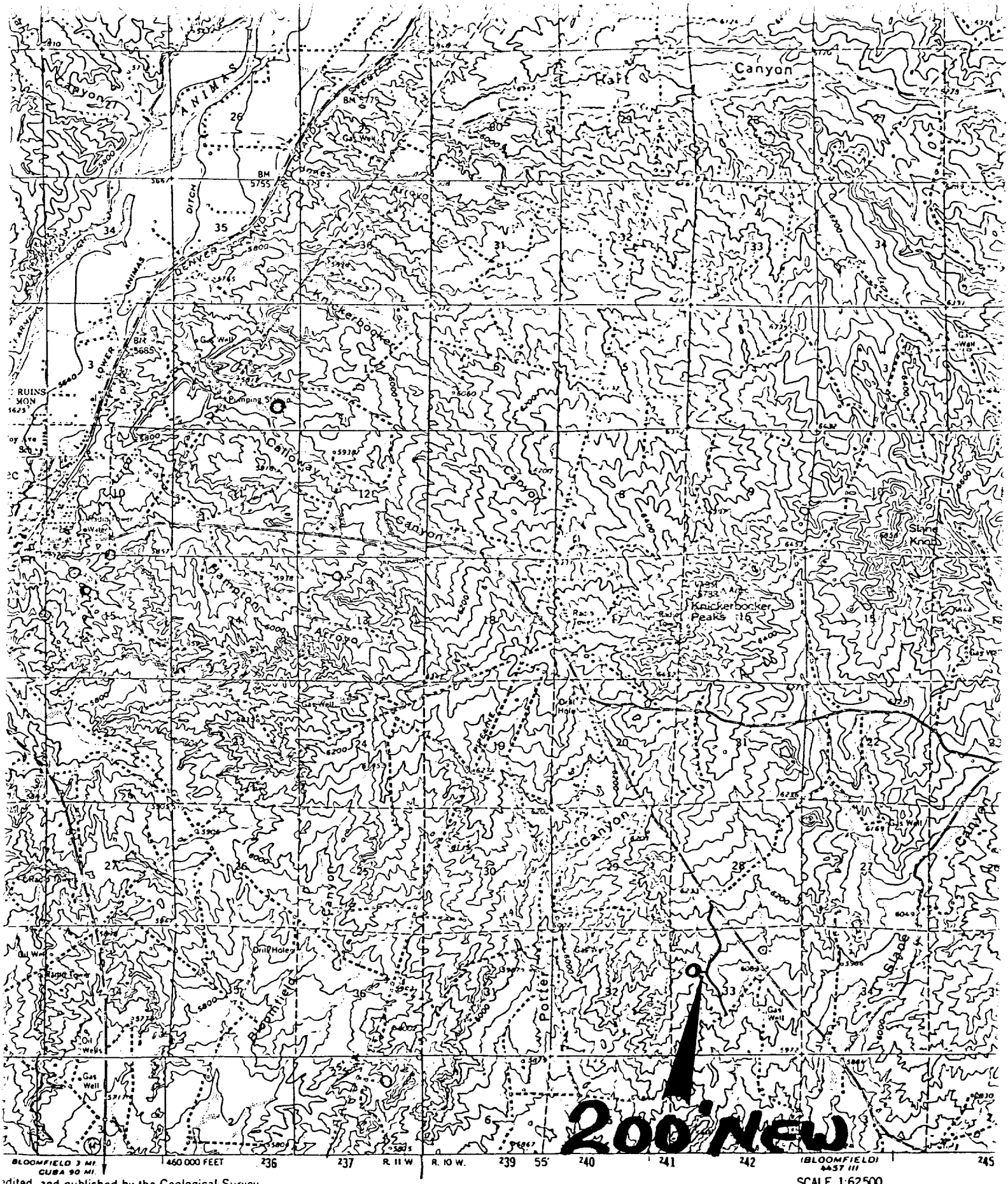
EXHIBIT

RILLING WELL SITE LAYOUT BASSETT B 1

1720 FNL 950 FWL SEC 33 T30N R10W DATE 1-14-80

PLACE A DIVERSION DITCH AROUND THE NORTH SIDE OF THE LOCATION DRAINING TO THE WEST





dited, and published by the Geological Survey

USGS and USC&GS

y by photogrammetric methods from aerial
s taken 1955. Field checked 1959

rojection 1927 North American datum
t grid based on New Mexico coordinate system,

r Universal Transverse Mercator grid ticks,
hown in blue

ld areas area in which only landmark buildings are shown

s omitted in parts of T. 32 N., R.

SCALE 1:62500

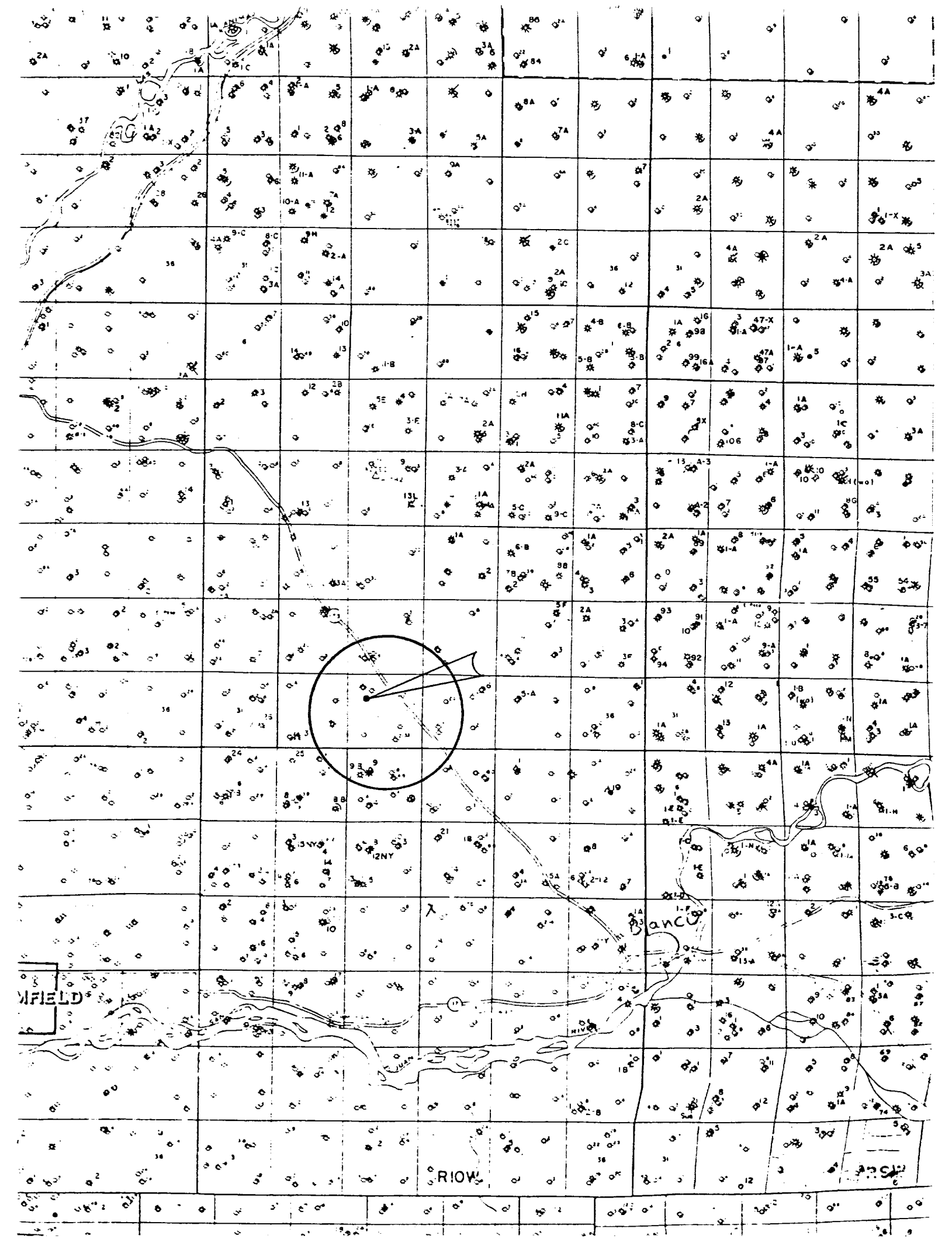
9000 12000 15000

INTERVAL 40 FEET
S MEAN SEA LEVEL

Vicinity Map for
TENNECO OIL COMPANY #1 BASSETT "B"
1720'FNL 950'FWL Sec 33-T30N-R10W
SAN JUAN COUNTY, NEW MEXICO

GRID AND 1967 MAGNETIC NORTH

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS


Blanco
RIO