

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  
Getty Oil Company

3. ADDRESS OF OPERATOR  
P. O. Box 3360, Casper, WY 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
At surface  
A 690' FNL & 790' FEL  
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
Approximately 2.3 miles east of Bloomfield, NM

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)  
530'

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
450'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
5593' GR

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	9 5/8"	36#	300	260
8 3/4"	7 "	23#	3130	360
6 1/4"	4 1/2"	11.6#	4600	165

We plan to test all sands through the Chacra which exhibit evidence of hydrocarbons and effective porosity. Tentative plans are to test the Mesaverde in another well in the general area. It is possible that this well will also be drilled to the Mesaverde based on the results of the other test. If the Chacra is deemed productive, a 7" production string will be cemented and completed through perforations. If the Mesaverde is drilled and deemed productive a 4 1/2" liner will be cemented and completed through perforations. See attached ten point plan for additional information.

5. LEASE DESIGNATION AND SERIAL NO.  
30-045-23130  
SF-078716  
6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
7. UNIT AGREEMENT NAME  
8. FARM OR LEASE NAME  
Bunce "A"  
9. WELL NO.  
#1  
10. FIELD AND POOL, OR WILDCAT  
(Chacra) (Mesaverde)  
Bloomfield-Wildcat  
11. SEC., T., R., M., OR BLK.  
AND SURVEY OR AREA  
Sec. 19-T29N-R10W  
12. COUNTY OR PARISH  
San Juan  
13. STATE  
NM

17. NO. OF ACRES ASSIGNED TO THIS WELL  
160

20. ROTARY OR CABLE TOOLS  
Rotary

22. APPROX. DATE WORK WILL START\*  
August 3, 1978

*Gas not 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 W. E. Crab TITLE Area Superintendent DATE \_\_\_\_\_

(This space for Federal or State office use)

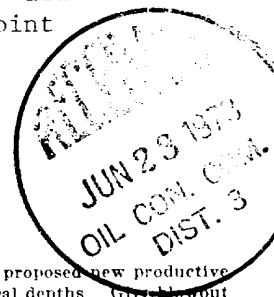
PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

*at Frank*

\*See Instructions On Reverse Side



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.

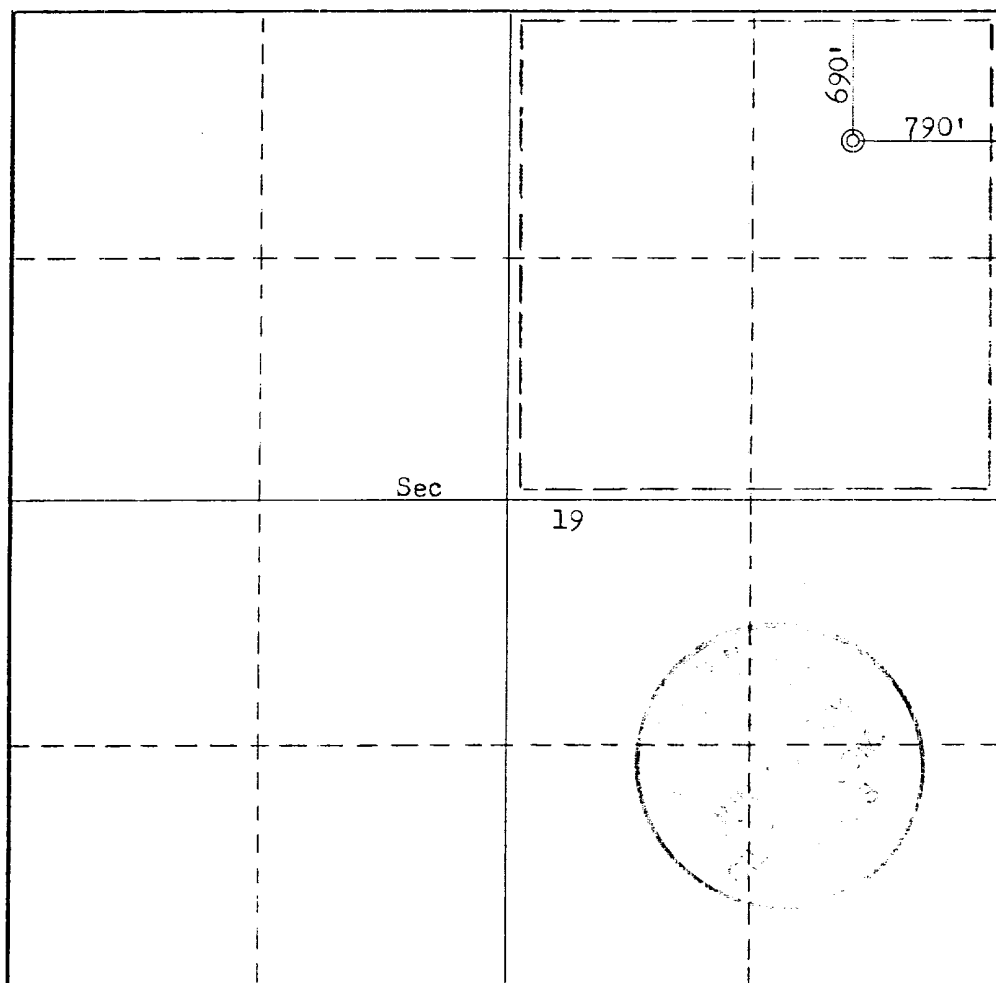
Operator <b>GETTY OIL COMPANY</b>			Lease <b>BUNCE "A"</b>		Well No. <b>1</b>
Unit Letter <b>A</b>	Section <b>19</b>	Township <b>29N</b>	Range <b>10W</b>	County <b>San Juan</b>	
Actual Footage Location of Well:					
690 feet from the North line and		790 feet from the East line			
Ground Level Elev. <b>5593</b>	Producing Formation <b>Mesa Verde-Chacra</b>	Pool <b>Wildcat Bloomfield</b>	Dedicated Acreage: <b>160</b> 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.

*H.E. Aab*

Name

H.E. Aab

Position

Area Superintendent

Company

Getty Oil

Date

6-16-78

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

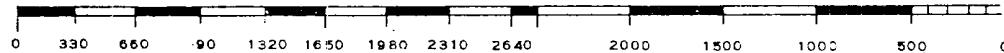
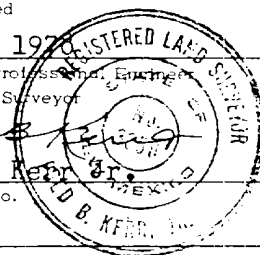
May 24, 1978

Registered Professional Engineer and/or Land Surveyor

*Fred B. Kerner*  
Fred B. Kerner

Certificate No.

3950



10-Point Well Control Program for Bunce "A" #1

- 1.) Tertiary sediments are exposed at the surface.
- 2.) The estimated tops of important geologic markers are as follows;

<u>FORMATION NAME</u>	<u>SEA LEVEL DATUM</u>	<u>DEPTH (KB)*</u>
Fruitland	3925'	1648'
Pictured Cliffs	3715'	1858'
Chacra Sand	2635'	2938'
Mesa Verde	2170'	3403'

\*KB= ground level elevation + 15' = 5573'

- 3.) The estimated depth intervals of potential fresh water and hydrocarbon zones are as follows;

<u>FORMATION NAME</u>	<u>DEPTH INTERVAL</u>	<u>SATURATING FLUID</u>
Ojo Alamo	758'-808'	fresh water
Fruitland	1648'-1683'	natural gas
Pictured Cliffs	1858'-1918'	natural gas
Chacra Sand	2938'-2948'	natural gas
Mesa Verde	3403'-4398'	natural gas

- 4.) The proposed casing program is as follows;

<u>DEPTH INTERVAL</u> <u>(ft.)</u>	<u>CASING SIZE</u> <u>(O.D.-in.)</u>	<u>NOMINAL WEIGHT</u> <u>(#/ft.)</u>	<u>GRADE</u>	<u>CONDITION</u>
0-300	9 5/8	36.0	K-55	new
0-3130	7	23.0	K-55	new
3020-TD*	4 1/2	11.6	K-55	new

\* proposed TD=4600

- 5.) A schematic of the BOP stack, showing sizes, pressure ratings, and the API series is included as Attachment 10-1. In addition to the BOP stack a rotating head will be used. The BOP stack and rotating head will be nipped up and pressure tested to 1000 psi, after cementing of the surface casing has been completed. Drilling will commence when it has been determined that the BOP stack will contain the test pressure. The BOP stack will be pressure tested to 1000psi, when cementing of the intermediate casing string has been completed. Additional testing of the BOP stack will consist of daily mechanical checks of the pipe rams, and mechanical checks of the blind rams whenever the drill pipe is out of the hole.

- 6.) The proposed mud program is as follows;

<u>DEPTH INTERVAL</u> <u>(ft.)</u>	<u>MUD WEIGHT</u> <u>(P.P.G.)</u>	<u>VISCOSITY</u> <u>(Sec./qt.)</u>	<u>FLUID LOSS</u> <u>(ml.)</u>	<u>MUD</u> <u>TYPE</u>
0-300	8.5-8.9	60-70	N.C.	gel/lime
300-3130	8.7-8.9	28-30	N.C.	gel/lime w/ gel extender
3130-TD	N.A.	N.A.	N.A.	air

7.) Auxiliary equipment and procedures to be used in addition to the BOP stack are as follows;

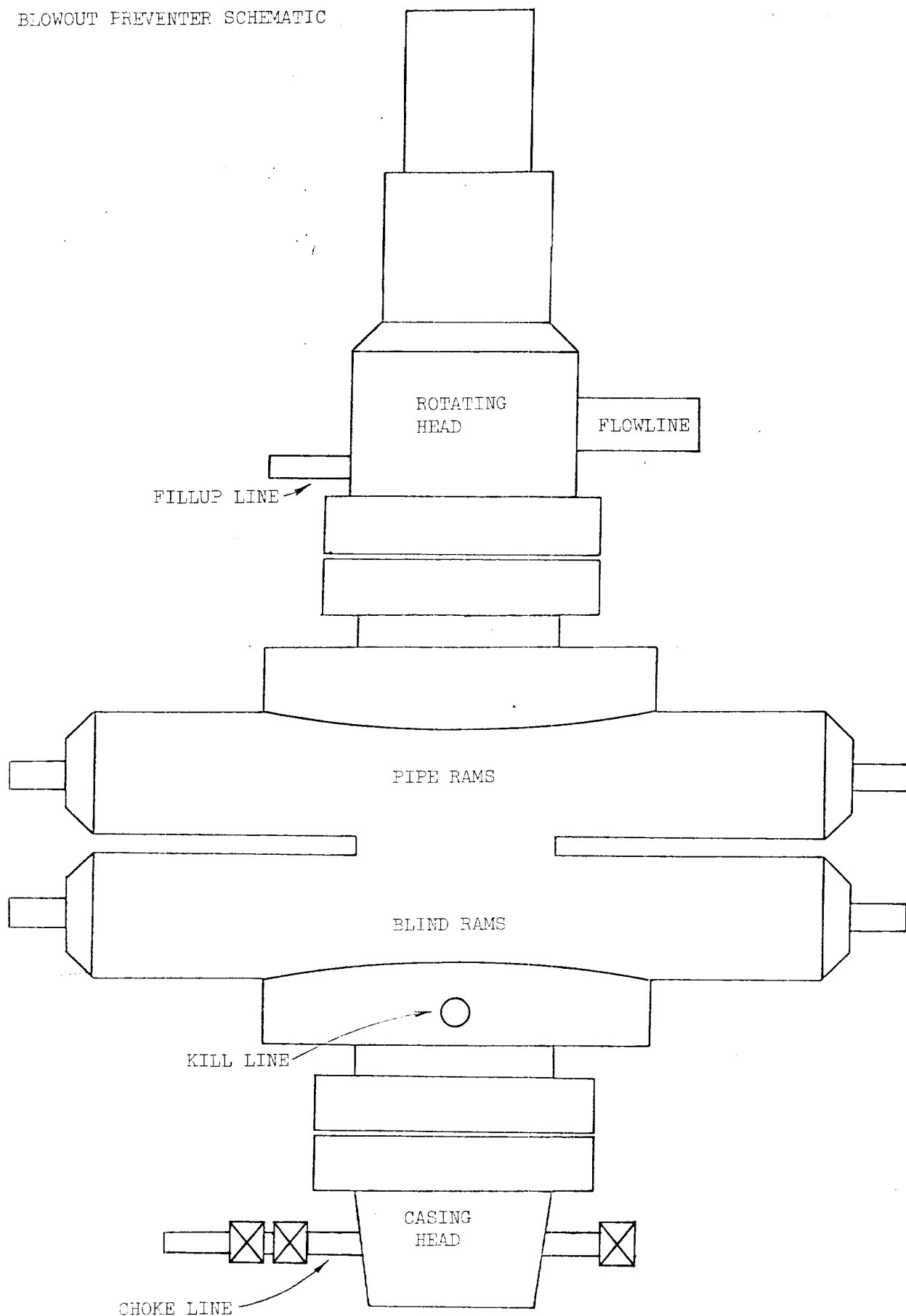
- a.) upper and lower kelly cocks,
- b.) a float at the bit,
- c.) visual monitoring of mud and reserve pit levels, and
- d.) a sub with a full opening valve will be available to be stabbed into the drill pipe when the kelly is not in the string.

8.) No coring, DST's or mud logging will be done in the subject well. The proposed logging program is as follows;

<u>DEPTH INTERVAL</u> <u>(ft.)</u>	<u>LOG</u> <u>TYPE</u>	<u>SCALE</u> <u>(11"/100')</u>
300-1500	Dual Induction Laterlog	2
1500-3130	Dual Induction Laterlog	5
1500-3130	Compensated Neutron Formation Density	5
3130-TD	Gamma-Induction	5
3130-TD	Sidewall Neutron Porosity	5
3130-TD	Compensated Formation Density	5

- 9.) No potential drilling hazards (i.e. abnormal pressures or temperatures, hydrogen sulfide) are expected to be encountered in this well.
- 10.) The anticipated spud date for the subject well is August 3, 1978. Drilling is expected to take 8 days.

# BLOWOUT PREVENTER SCHEMATIC



SURFACE USE AND OPERATION PLAN FOR  
BUNCE "A" #1

1.) Existing Roads;

- a.) The proposed well site as staked is 690' FNL + 790' FEL in section 19, T29N, R10W, San Juan County, New Mexico (See Attach. 13-1)
- b.) The route to the Bunce "A" #1 is; North out of Bloomfield on N.M. Hwy 44 for .3 miles, then east on N.M. Hwy. 17 for 3.3 miles then North onto access road for well. This route is marked on Attach. 13-1.
- c.) The access road to the well location is shown on Attach. 13-1.
- d.) N.A.
- e.) For this development well all existing roads within a 1-mile radius are shown on Attach. 13-1.
- f.) No improvement or maintenance is necessary on existing roads.

2.) Planned Access Roads;

No access roads will need to be constructed or reconstructed. Route to well from existing access road is along an existing trail on firm ground that won't require any grading.

3.) Location of Existing Wells;

The location of wells within a 1-mile radius of this development well are indicated below;

- a.) no water wells,
- b.) no abandoned wells,
- c.) no temporarily abandoned wells,
- d.) no disposal wells,
- e.) no drilling wells,
- f.) 18 producing gas wells (See Attach 13-3),
- g.) no shut in wells,
- h.) no injection wells,
- i.) no monitoring or observation wells for other resources.

4.) Location of Existing and/or Proposed Facilities;

- a.) Facilities owned by Getty within a 1-mile radius of the proposed well site are as follows;

- 1.) no tank batteries,
- 2.) production facilities on the Getty wells (as indicated on Attachment 13-3) are;
  - a.) 2'x 8' horizontal 3-phase separator,
  - b.) a 210 barrel oil storage tank (10'x 15'),
  - c.) and a water dump pit (8'x 12'x 6' deep).

These facilities are on the Getty gas wells which are indicated on Attachment 13-3.

- 3.) no oil gathering lines,
- 4.) no gas gathering lines,
- 5.) no injection lines,
- 6.) no disposal lines.

b.)

- 1.) New facilities in the event of production will be located shown on attachment 13-4-B.

- 2.) The dimensions of new facilities in the event of production will be;
  - a.) a 2'x 8' horizontal 3-phase separator,
  - b.) a 210 barrel oil storage tank (10'x 15'),
  - c.) and a water dump pit (8'x 12'x 6' deep).
- 3.) The water dump pit will be constructed with a back-hoe by removal of native soil.
- 4.) An earthen dike utilizing soil in the immediate area will be constructed to contain oil should a spill occur. The burn pit will be fenced and flagged to protect wildlife and livestock.
- c.) After completion of construction, in the event the well is a producer, the reserve pit will be filled and leveled to as near the same topography as before being disturbed. All of the site which is not utilized in normal production operations will be leveled and topsoil redistributed over that area. Seeding of that area will be in accordance with the land owner's requirements and at a time of the year when establishment is most likely to be successful.

5.) Location and Type of Water Supply

- a.) Water for drilling will come from either the San Juan River or else Citizens Ditch.
- b.) Water for drilling will be transported by truck, no new roads will be needed.
- c.) No water well will be drilled on lease.

6.) Source of Construction Materials

The only construction materials which will be utilized are native soils from the immediate well area. The soils used will be located on private land.

7.) Methods for Handling Waste Disposal

- 1.) Drill cuttings are to be contained in earthen reserve pit.
- 2.) Drilling fluids are to be contained in earthen reserve pit.
- 3.) The produced fluids will be contained in a test tank until such time as construction of treating facilities is complete.
- 4.) A waste hole for sewage discharge from trailer will be drilled.
- 5.) Garbage and other waste materials are to be contained in a trash pit fenced with small mesh wire. This trash is to be burned periodically.
- 6.) All trash is to be gathered, burned and buried at completion of drilling operations.

8.) Ancillary Facilities

There are no airstrips or camps planned.

9.) Wellsite Layout

- 1.) See Attach. 13-4-B for cross section of drill pad with cuts & fills.
- 2.) See Attach. 13-4-B for location of mud tanks, reserve, burn & trash pits, pipe racks, living facilities and soil material stockpiles.

- 3.) See Attach. 13-4-B for rig orientation, parking areas and access roads.
- 4.) Pits are not to be lined.
- 10.) Plans for Restoration of Surface
  - 1.) Pit area will be fenced and allowed to dry. Pits will be backfilled, leveled, contoured and re-seeded, as required by surface owner or BLM.
  - 2.) Revegetation and rehabilitation, including access roads will be done as required by BLM.
  - 3.) Prior to rig release, the pits will be fenced and so maintained until cleanup.
  - 4.) If oil is on pit, it will be removed or overhead flagging will be installed.
  - 5.) Estimated date for starting rehabilitation operations is August 18, 1978, and completion date is estimated to be October 20, 1978.
- 11.) Other Information
  - a.) The surface around the well location is composed of small boulders. No distinguishing geologic features are in the location vicinity.
  - b.) Surrounding lands are either farmed or left idle.
  - c.) An occupied trailer is located about 700' from the well location. The San Juan River is located approximately 2100 feet to the south of the location. No known archeological, historical or cultural sites are in the proposed well area.

12.) Lessee's or operator's representative

Dick P. Hergenreter  
Getty Oil Company  
P.O. Box 510  
Farmington, NM 87401

Office phone (505) 325-9682  
Mobile phone (505) 325-1873  
go through contact radio  
svc. for car #604

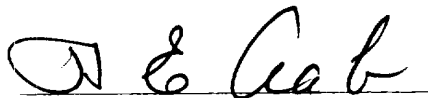
Harold E. Aab  
Getty Oil Company  
P.O. Box 3360  
Casper, WY 82602

Office phone (307) 265-8286  
Mobile phone (307) 265-4100

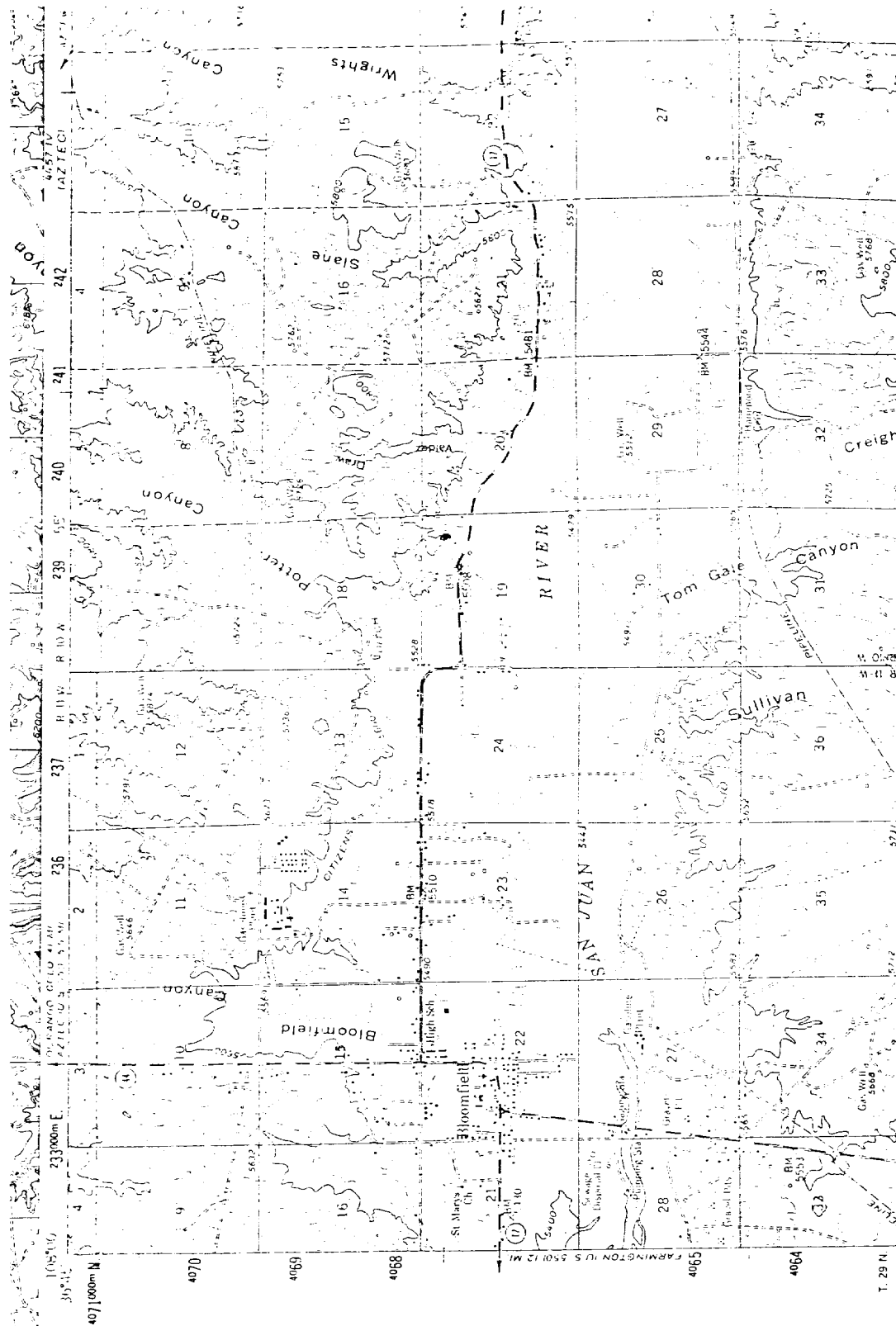
13.) Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge true and correct; and, that the work associated with the operation proposed herein will be performed by Getty Oil Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

DATE 6-8-78

  
H.E. Aab  
Area Superintendent





SCALE 1:62,500



CONTOUR INTERVAL 40 FEET  
DATUM IS MEAN SEA LEVEL

well location -  
route from Bloomfield  
access road

ROAD CLASSIFICATION  
Unimproved dirt — Medium-duty — Light-duty

State Route



QUADRANGLE LOCATION

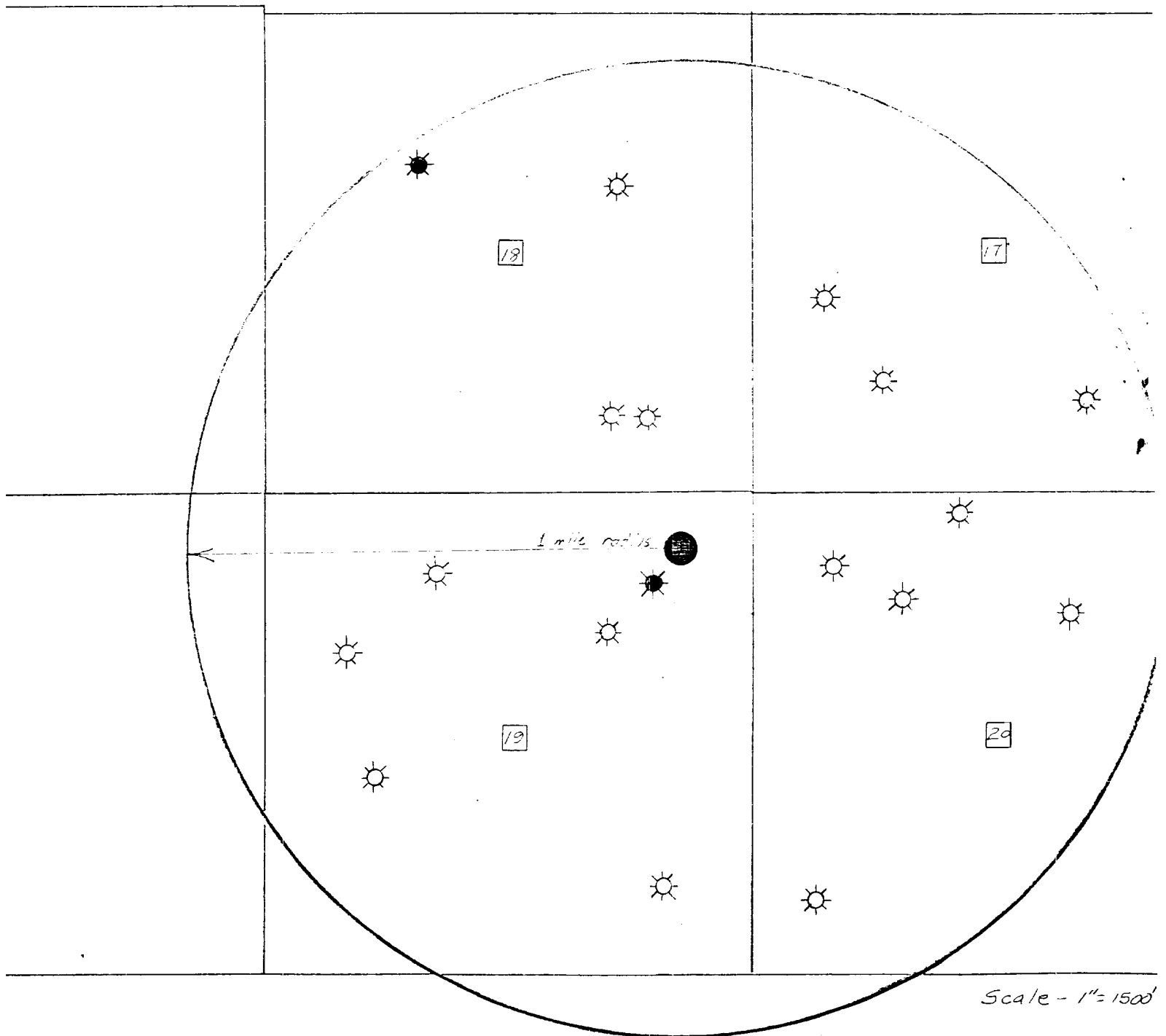
BLOOMFIELD, N. M.  
N3630-W10745/15

1960

AMS 4457 III-SERIES V7

Attachment 13-1

Bunce "A" #1



T29N R10W  
San Juan County, New Mexico

Legend:  
Proposed well - ●  
Existing gas well - ☼  
Getty gas well - ★

Attachment 13-3

# Rig Layout

1. Reserve Pit
2. Trash Pit
3. Mud Pits
4. Mud Pumps
5. Water Tank
6. Utility House
7. Rig Substructure
8. Dog House
9. Catwalk
10. Pipe Racks
11. Derrick Stand

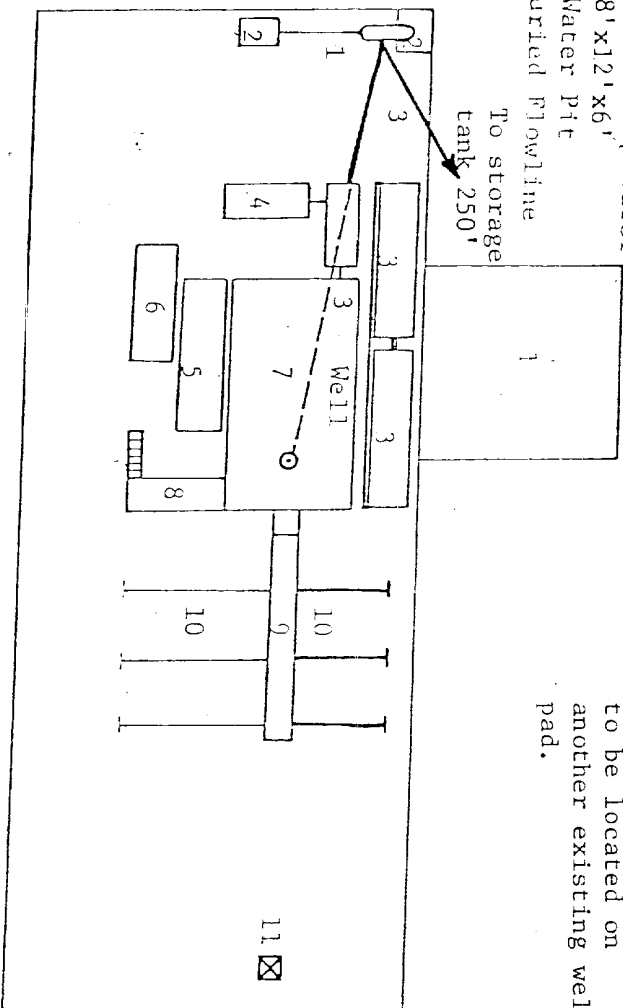
## Surface Facilities

1. 2'x8' Separator
2. 8'x12'x6' Water Pit
3. Buried Flowline

To storage tank 250'

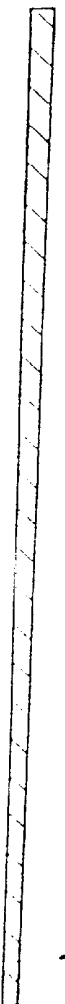
NOTE: Oil Storage tank to be located on another existing well pad.

RIG & SURFACE FACILITIES  
ATTACHMENT 13-4--B  
Runce "A" No. 1  
Scale: 1" = 50'



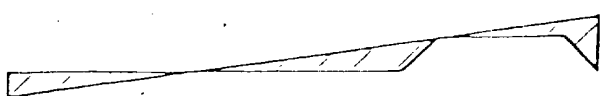
Access Road

cut 3'



cut 2'

cut 3'



fill 5'

REHABILITATION AGREEMENT

Lease No.: Bunce "A" #1 ; Well Name & No.: "A" #1  
Location: NE NE Sec. 19, T. 29 N., R. 10 W.

Getty Oil Co. intends to drill a well on surface owned by El Paso  
Natural Gas Company. The lessee/operator agrees to complete the following rehabilitation work if the well is a producer:

☒ Yes ☐ No Maintain access roads and provide adequate drainage to road  
☒ Yes ☐ No Reshape and reseed any area in excess of the pump and support facilities.

Other requirements: \_\_\_\_\_

The following work will be completed when the well is abandoned:

☐ Yes ☒ No Site will require reshaping to conform to existing topography.  
☒ Yes ☐ No Pit will be fenced until dry, then filled to conform to topography.  
☒ Yes ☐ No Entire disturbrd area will be reseeded. If yes, the following seed mixture will be used:

RECOMMENDED PROCEDURE AT TIME OF ABANDONMENT

☒ Yes ☐ No Access road will be rehabilitated and reseeded using the same seed mixture as above.  
☐ Yes ☐ No Access road will remain for landowner's use.

Other requirements: \_\_\_\_\_

Operator  
Name: Getty Oil Company  
Address: P. O. Drawer 510  
City: Farmington  
State: New Mexico  
Telephone: 325-9682  
Date: \_\_\_\_\_

Landowner  
Name: El Paso Natural Gas Company  
Address: P. O. Box 990  
City: Farmington  
State: New Mexico  
Telephone: (505) 325-2841  
Date: \_\_\_\_\_

☒ Yes ☐ No I certify rehabilitation has been discussed with the surface owner.

D. E. Cab  
Area Superintendent

This agreement covers rehabilitation requirements only and does not affect any other agreements between the lessee/operator and surface owner.