Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-045-23634

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
Getty Oil Company

3. ADDRESS OF OPERATOR
Drawer 510, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface
1170'FNL & 1805'FWL (NW 1/4)
C
At proposed prod. zone
same

5. LEASE DESIGNATION AND SERIAL NO.
NM-080280

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
N/A

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME
Mexico-Federal R

9. WELL NO.
~~#~~ 1M

10. FIELD AND POOL, OR WILDCAT
Blanco Mesa Verde-Basin Dakota

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 12 T31N R13W

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
3.7 miles East-Southeast from La Plata, New Mexico

12. COUNTY OR PARISH
San Juan

13. STATE
New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
1170'

16. NO. OF ACRES IN LEASE
640

17. NO. OF ACRES ASSIGNED TO THIS WELL
M320/320 ~~160~~

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
2460'

19. PROPOSED DEPTH
6910'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5794'GR

22. APPROX. DATE WORK WILL START*
July 1, 1979

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
14-3/4"	10-3/4" new	32.75# H-40	250'	280 cu.ft. Class "A"
9-3/4"	7-5/8" new	26.4# K-55	3875'	1,260 cu.ft. Class "A" perlite & 105 cu.ft. Class "A"
6-3/4"	5-1/2" new	15.5# K-55	6910'	5-1/2"=465 cu.ft. 50-50 pozmix

1. Drill 14-3/4" hole and set 10-3/4" casing to 250' with good returns.
2. Log B.O.P. checks daily and drill 9-3/4" hole to 3875'. Drill 6-3/4" hole to 6910'.
3. Run tests, if warranted, and run 7-5/8" and 5-1/2" casing if productive.
4. Run logs as needed, and perforate and stimulate as needed.

EXHIBITS ATTACHED:

"A" Location & Elevation Plat
"B" The Ten-Point Compliance Program
"C" The Blowout Preventer Diagram
"D" The Multi-Point Requirements for A.P.D.
"E" Access Road into Location
"F" Radius Map of Field
"G" Drill Pad Layout, Cut-Fill Cross Section, Production Facilities
"H" Drill Rig Layout
"K" Acidizing & ~~Frac~~ing Layout

gas is dedicated

RECEIVED
JUN
U. S. GEOLOGICAL SURVEY

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 [signature] TITLE Area Superintendent DATE June 25, 1979

RECEIVED
JUN 27 1979
OIL CON. COM.
DIST. 3

(This space for Federal or State office use)

PERMIT NO. ____ APPROVAL DATE ____

APPROVED BY ____ TITLE ____ DATE ____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

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

EXHIBIT "A"
Location & Elevation Plat

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

Operator	Lease	Well No.
GETTY OIL COMPANY	MEXICO-FEDERAL "R"	1M ~~1EM~~

Unit Letter	Section	Township	Range	County
C	12	31N	13W	San Juan

Actual Footage Location of Well:
1170 feet from the North line and 1805 feet from the West line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
5794	Dakota	Basin Dakota	~~160~~ 320 Acres

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

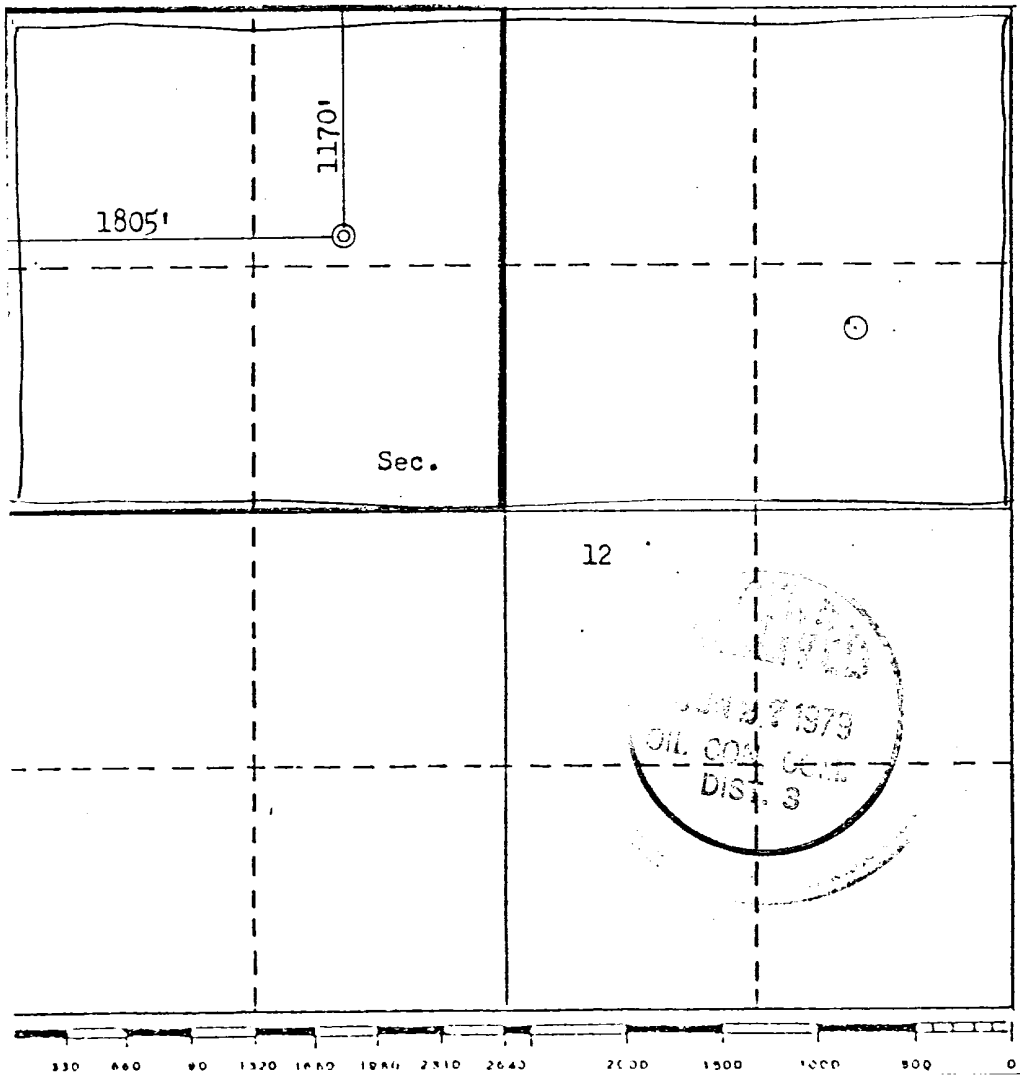
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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 Division.



CERTIFICATION

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

George Lapaseotes

Name George Lapaseotes

Position Vice President

Company Powers Elevation

Date June 22, 1979

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 June 7, 1979

Registered Professional Engineer and/or Land Surveyor

Fred B. Kerr Jr.

Certificate No. 3950

REGISTERED LAND SURVEYOR STATE OF NO. 3950 FRED B. KERR, JR.

EXHIBIT "B"

TEN-POINT COMPLIANCE PROGRAM

OF NTL-6 APPROVAL OF OPERATIONS

Attached to Form 9-331C
Getty Oil Company
1EM Mexico-Federal R
1170' FNL & 1805' FWL
Sec. 12 T31N R13W
San Juan County, New Mexico

1. The Geologic Surface Formation

The surface formation is an unnamed shale.

2. Estimated Tops of Important Geologic Markers

Pictured Cliffs	2067'
Chacra	2860'
Mesa Verde	3615'
Mancos	4637'
Gallup	5737'
Greenhorn	6446'
Dakota	6552'
T.D.	6910'

3. Estimated Depths of Anticipated Water, Oil, Gas or Minerals

3615'-4637'	gas
6552'-6837'	gas

4. The Proposed Casing Program

Hole Size	Interval	Section Length	Size (OD)	Weight, Grade & Joint	New or Used	Mud * Weight
14 3/4"	0-250'	250'	10 3/4"	32.75# H-40 8rnd. ST&C	New	8.6#
9 3/4"	0-3875'	3875'	7 5/8"	26.4# K-55 " "	New	9.2#
6 3/4"	3725-6910'	3185'	5½"	15.5# K-55 " "	New	air mist

* at casing setting

SF T	SF c	SF b
25.0	7.0	14.6
3.2	1.4	1.4
4.6	1.2	1.6

Cement Program

Surface - 10 3/4 - 280 cu. ft. class "A", with 2% $CaCl_2$, ¼#/sack cellophane.

Production - 7 5/8" - lead: 1260 cubic feet 1:1 class "A perlite, 4%gel.

tail: 105 cubic feet class "A", ¼#/sack cellophane
5½ (liner) - 465 cubic feet, 50-50 Pozmix, 2% gel, 6¼#/sack gilsonite, .8% fluid loss agent, ¼#/sack cellophane.

5. The Operator's Minimum Specifications for Pressure Control

BOP will be a shaeffer rotating head or the equivalent. EXHIBIT "C" is a schematic diagram of the blowout preventer equipment. The BOP's will be hydraulically tested to the full working pressure after nippling up and after any use under pressure. Pipe rams will be operationally checked each 24-hour period, as will blind rams each time pipe is pulled out of the hole. Such checks of BOP will be noted on daily drilling reports.

Accessories to BOP will include an upper andlower kelly cock, floor safety valve, and choke manifold with pressure rating equivalent to the BOP stack.

6. The Type and Characteristics of the Proposed Circulating Muds

Mud system will be gel-chemical with adequate stocks of sorptive agents on site to handle possible spills of fuel and oil on the surface. Heavier muds will be on location to be added if pressure requires.

Interval	Type	Weight/Gal.	Viscosity (Sec.)	Water Loss	Additives
0-250'	gel-water	8.4-8.6	33-38	NC	Lime
250'-3875'	polymer LSND	8.6-9.2	30-35	15cc	starch, polymer, gel, soda, ash

7. The Auxiliary Equipment to be Used

(a) A kelly cock will be kept in the string

(b) A float will be used at the bit

(c) The mud system will be monitored visually.

(d) A stabbing valve will be on the floor to be stabbed into the drill pipe when kelly is not in the string.

8. The Testing, Logging and Coring Programs to be Followed

(a) A test is anticipated. No DST's will be run.

(b) The logging program will consist of a DILL from 250'-3875'; detail scale (5"to100') from 2700'-3875'; Gamma Induction Log from 3875'-6910'; Sidewall Neutron Porosity and Formation Density from 3875'-6910'.

(c) No coring is anticipated.

(d) Completion Program: 1000 gal. 15% Hydrochloric acid, frac with 35,000 gal. treated water; 30,000# 20-40 sand, 40,000# 10-20 sand.

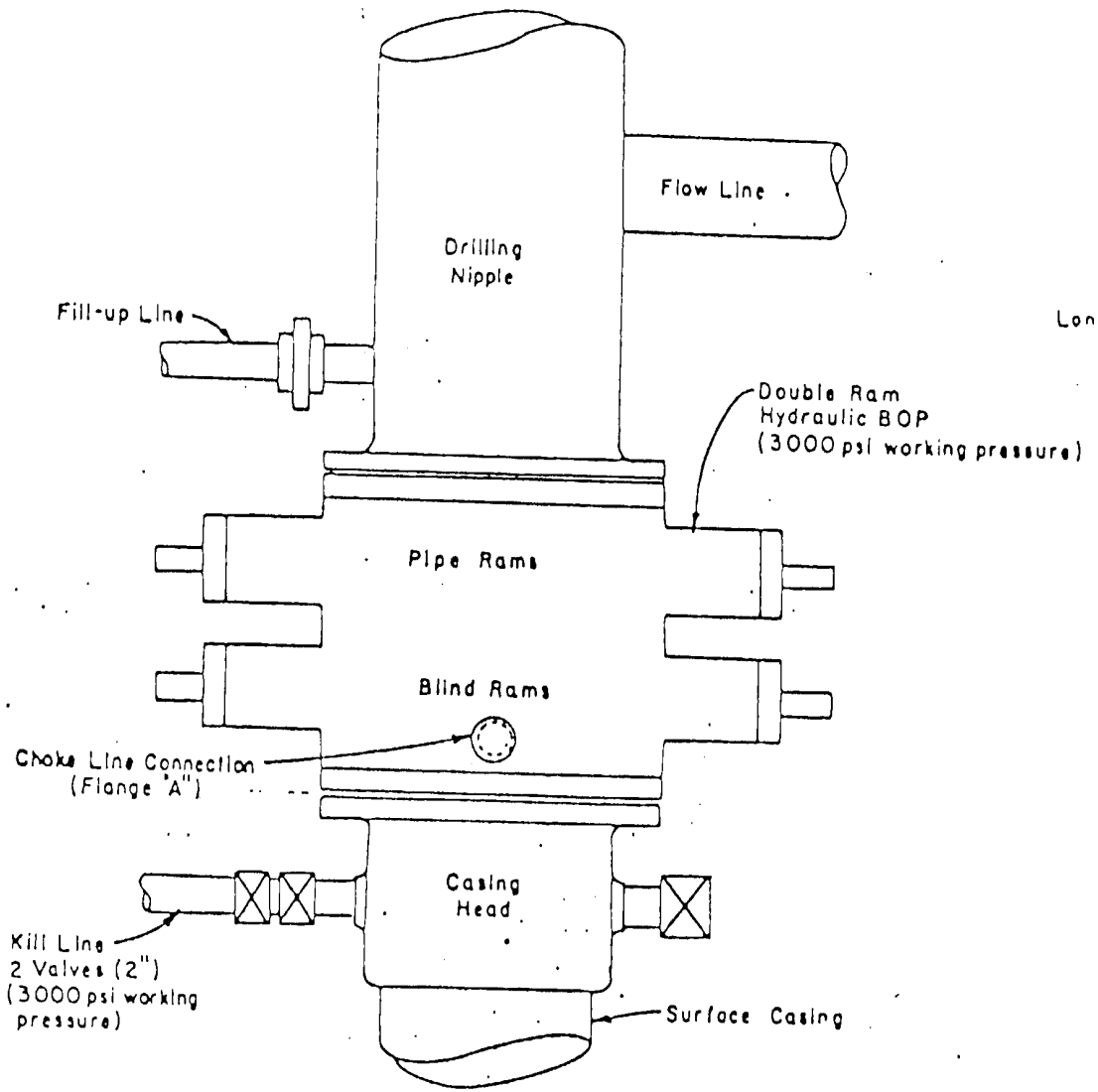
9. Any Anticipated Abnormal Pressures or Temperatures

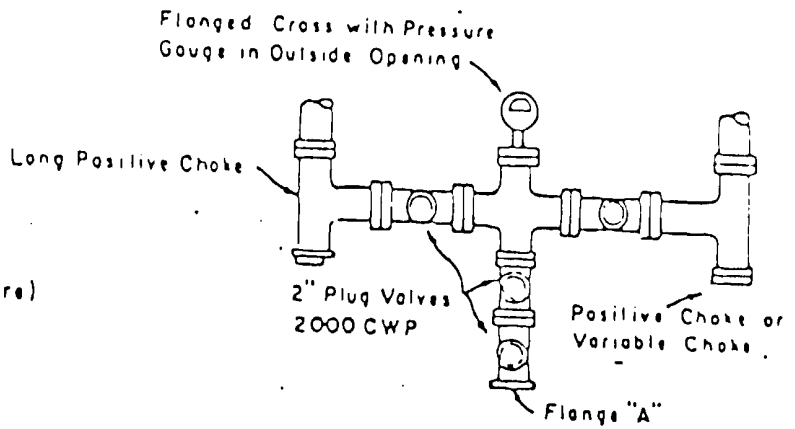
No abnormal pressures or temperatures have been noted or reported in wells drilled in the area nor at the depths anticipated in this well. Bottom hole pressure expected is 2000 psi.

No hydrogen sulfide or other hazardous fluids or gases have been found, reported or known to exist at these depths in the area.

10. Anticipated Starting Date and Duration of the Operations

The anticipated starting date is set for July 1, 1979, or as soon as possible after examination and approval of drilling requirements. Operations should be completed wihtin 12 days.





PLAN VIEW - CHOKE MANIFOLD

EXHIBIT "C"

Blowout Preventer Diagram

EXHIBIT "D"

MULTI-POINT REQUIREMENTS TO ACCOMPANY A.P.D.

Attached to Form 9-331C
Getty Oil Company
1EM Mexico-Federal R
1170'FNL & 1805'FWL
Sec. 12 T31N R13W
San Juan County, New Mexico

1. Existing Roads

A. The proposed well site and elevation plat is shown as EXHIBIT "A".

B. The distance from La Plata, New Mexico is 3.7 miles. Proceed East on paved Highway #173 for 0.7 mile, thence Southeasterly on existing oil field road for 2.5 miles, thence North on new access road 0.5 mile to the location, as shown on EXHIBIT "E".

C. All roads to location are color-coded on EXHIBIT "E". A new access road 0.5 mile from the existing county road will be required, as shown on EXHIBIT "E".

D. N/A

E. This is a development well. All existing roads within a three-mile radius are shown on EXHIBIT "E".

F. The existing roads need no improvement. Maintenance will be performed as required.

2. Planned Access Roads

Map showing all necessary access roads to be constructed or reconstructed is shown as EXHIBIT "E" for the following:

(1) The maximum width of the running surface of the 0.5 mile of access road as you leave the existing county road will be 18'.

(2) The grade will be 8% (eight percent) or less.

(3) No turn outs are planned.

(4) Appropriate water bars will be constructed to assure drainage off location to conform with the natural drainage pattern.

(5) No culverts are needed. No major cuts or fills are anticipated along access road during drilling operation.

(6) Surfacing materials will be native soil.

(7) No gates, cattle guards or fence cuts are needed.

(8) The new access road to be built has been staked during the time of staking the location, and is centerline flagged as shown on EXHIBIT "E".

3. Location of Existing Wells

For all existing wells within one mile radius of development well, see EXHIBIT "F".

(1) There are no water wells within a one mile radius of this location.

(2) There are no abandoned wells in this one mile radius.

(3) There are no temporarily abandoned wells.

(4) There are no disposal wells.

(5) There are no wells presently being drilled.

(6) There are 8 producing wells within this one mile radius.

(7) There are no shut-in wells.

(8) There are no injection wells.

(9) There are no monitoring or observation wells for other uses.

4. Location of Existing and/or Proposed Facilities

A. Within one-mile radius of location, the following existing facilities are owned or controlled by lessee/operator:

(1) Tank Batteries: None

(2) Production Facilities: None

(3) Oil Gathering Lines: None

(4) Gas Gathering Lines: None

(5) Injection Lines: None

(6) Disposal Lines: None

B. If production is obtained, new facilities will be as follows:

(1) Production facilities will be located on solid ground of cut area of drill pad, as shown on EXHIBIT "G".

(2) All well flow lines will be buried and will be on the well site and battery site.

(3) Facilities will be 300 feet long and 150 feet wide.

(4) All construction materials for battery site and pad will be obtained from site. No additional material from outside sources is anticipated.

(5) Any necessary pits will be fenced and flagged to protect livestock and wildlife.

C. Rehabilitation, whether well is productive or dry, will be made on all unused areas in accordance with BLM stipulations.

5. Location and Type of Water Source

A. The source of water will be an irrigation ditch 1 mile West of the location, as shown on EXHIBIT "E".

B. Water will be transported by truck over existing roadways.

C. No water well is to be drilled on this lease.

6. Construction Materials

A. No construction materials are needed for drilling and access roads into the drilling location unless production is obtained. The surface soil materials will be sufficient or will be provided by the Dirt Contractor as needed.

B. No construction materials will be taken off Federal land.

C. All surface soil materials for construction of access roads are sufficient.

D. All major access roads presently exist as shown on EXHIBIT "E".

7. Handling of Waste Materials and Disposal

(1) Drill cuttings will be buried in the reserve pit and covered.

(2) Drilling fluids will be handled in the reserve pit.

(3) Any fluids produced during drilling test or while making pro-

duction test will be collected in a test tank. If a test tank is not available during drilling, fluids will be handled in reserve pit. Any spills of oil, gas, salt waters or other noxious fluids will be cleaned up and removed.

(4) Chemical facilities will be provided for human waste.

(5) Garbage and non-flammable waste and salts and other chemicals produced during drilling or testing will be handled in trash pit. Flammable waste will be disposed of in burn pit. Drill fluids, water drilling mud and tailings will be kept in reserve pit, as shown on EXHIBIT "H". The trash and/or burn pit will be totally enclosed with small mesh wire to prevent wind scattering trash before being burned or buried. Reserve pit will be fenced on three sides and the fourth side fenced upon removal of the rig.

(6) After the rig moves out, all materials will be cleaned up and no adverse materials will be left on location. Any dangerous open pit will be fenced during drilling and kept closed until such time as the pit is leveled.

8. Ancillary Facilities

No air strip, camp or other facilities will be built during drilling of this well.

9. Well Site Layout

(1) EXHIBIT "G" is the Drill Pad Layout as staked, with elevations by Kerr Land Surveying of Farmington, New Mexico. Cuts and fills have been drafted to visualize the planned cut across the locations spot and to the deepest part of the pad. Topsoil will be stockpiled per BLM specifications determined at time of pre-drill inspection.

(2) EXHIBIT "H" is a plan diagram of the proposed rig and equipment, reserve pit, burn and trash pit, pipe racks and mud tanks. No permanent living facilities are planned. There will be a trailer on site.

(3) EXHIBIT "G" is a diagram showing the proposed production facilities layout.

(4) The reserve pits will not be lined. Steel mud tanks may be used during drilling operations.

10. Plans for Restoration

(1) Backfilling, leveling and contouring are planned as soon as all pits have dried. Waste disposal and spoils materials will be buried or hauled away immediately after drilling is completed. If production is obtained, the unused area will be restored as soon as possible.

(2) The soil banked material will be spread over the area. Revegetation will be accomplished by planting mixed grasses as per formula provided by the BLM. Revegetation is recommended for road area, as well as around drill pad.

(3) Three sides of the reserve pit will be fenced during drilling operations. Prior to rig release, the reserve pit will be fenced on the fourth side to prevent livestock or wildlife from becoming entrapped; and the fencing will be maintained until leveling and cleanup is accomplished.

(4) If any oil is on the pits and is not immediately removed after operations cease, the pit containing the oil or other adverse substances will be flagged overhead or covered with wire mesh.

(5) The rehabilitation operations will begin immediately after the drilling rig is removed. Removal of oil or other adverse substances will begin immediately or area will be flagged and fenced. Other cleanup will be done as needed. Planting and revegetation is considered best in Spring, 1980 unless requested otherwise.

11. Other Information

(1) The soil is a sandy-clay loam. No distinguishing geological features are present. The area is covered with weeds and native grass. There are livestock and rabbits in the area. The topography is gently sloping Northeasterly.

(2) The primary surface use is for grazing. The surface is owned by the U.S. Government.

(3) The closest live water is an irrigation ditch 1 mile West of the location, as shown on EXHIBIT "E".

The closest occupied dwellings are farms located 1 mile West of the location, as shown on EXHIBIT "E".

There are no known archaeological, historical, or cultural heritages that will be distrubed by this drilling.

(4) There are no reported restrictions or reservations noted on the oil and gas lease.

(5) Drilling is planned for on or about July 1, 1979. Operations should be completed within 12 days.

12. Lessee's or Operator's Representative

George Lapaseotes
Agent Consultant for
Getty Oil Company
600 South Cherry Street
Suite 1201
Denver, Colorado 80222
(303) 321-2217

Dick Hergenreter
Getty Oil Company
Drawer 510
Farmington, New Mexico 87401
(505) 325-9682

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 made 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 Getty Oil Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

6-25-79
Date

George Lapaseotes
George Lapaseotes
Agent Consultant for
Getty Oil Company

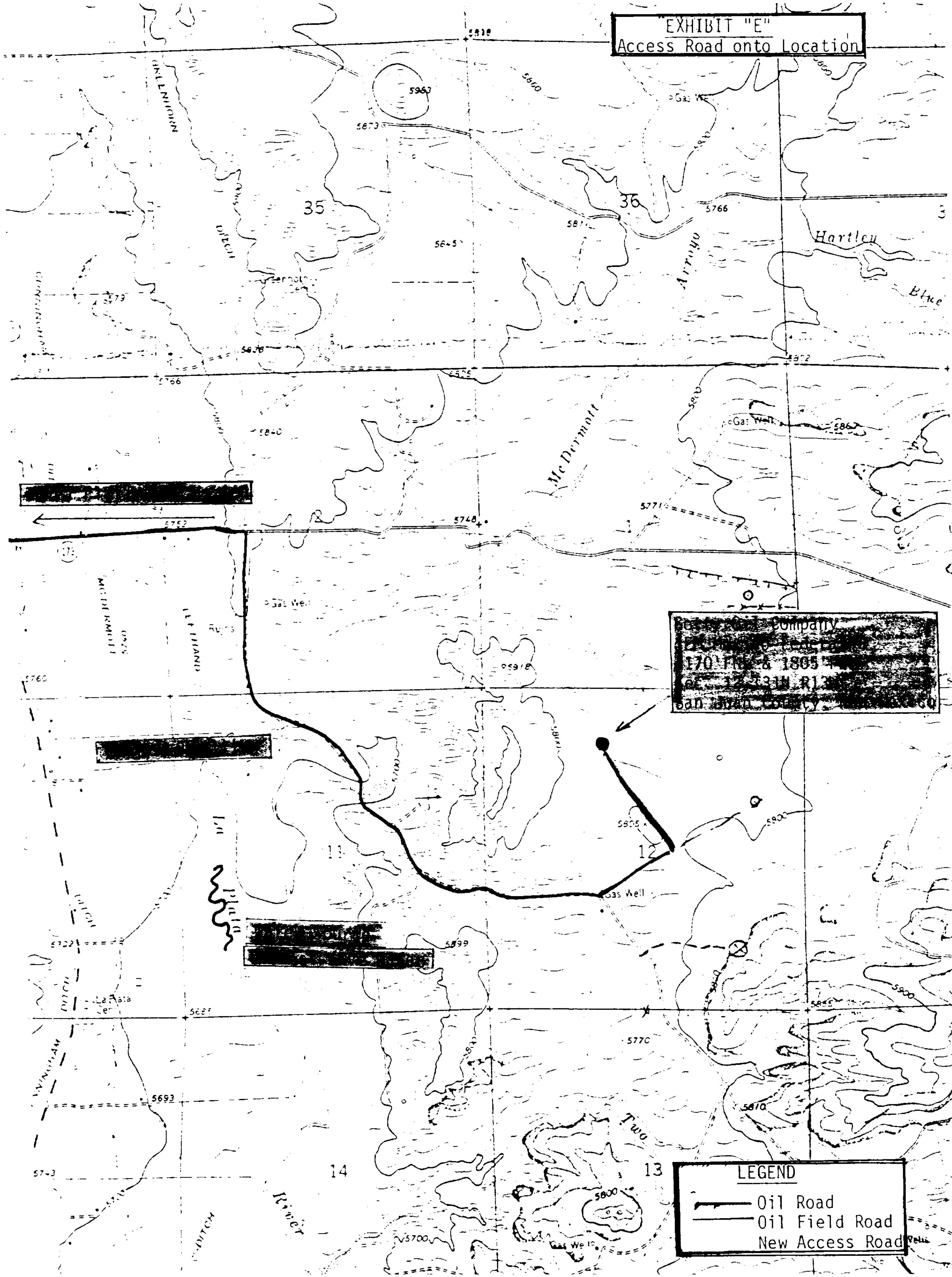


EXHIBIT "E"
Access Road onto Location
[redacted] Company
[redacted]
170 FN[redacted] & 1805 [redacted]
Sec. 12, T31N R13[redacted]
San Juan County, [redacted]
[redacted]
[redacted]
[redacted]
LEGEND
Oil Road
Oil Field Road
New Access Road
35
36
11
12
13
14
McDermott
Arroyo
Hartley
Blue
Two
River
Gas Well
Ruins
La Plata

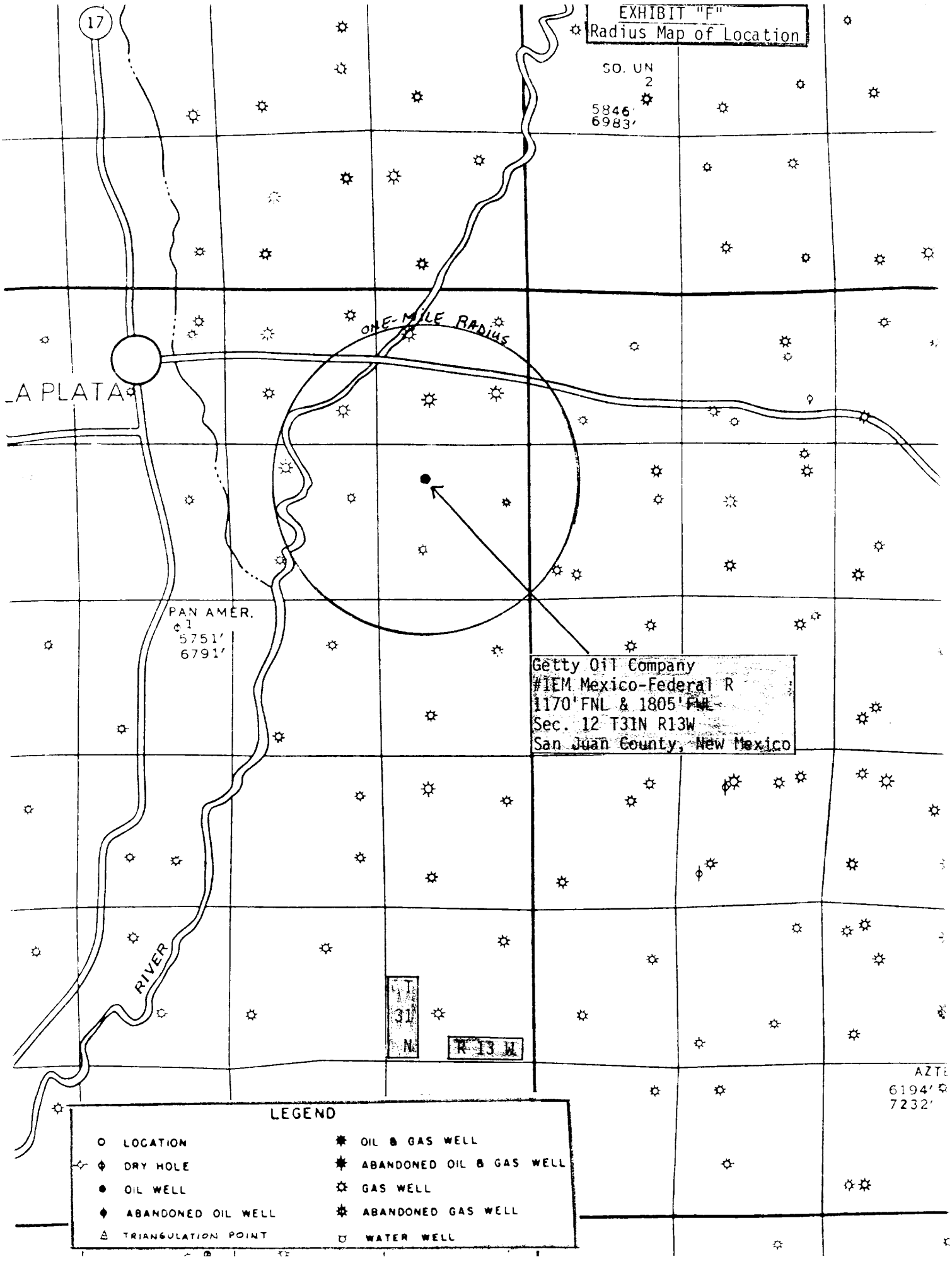
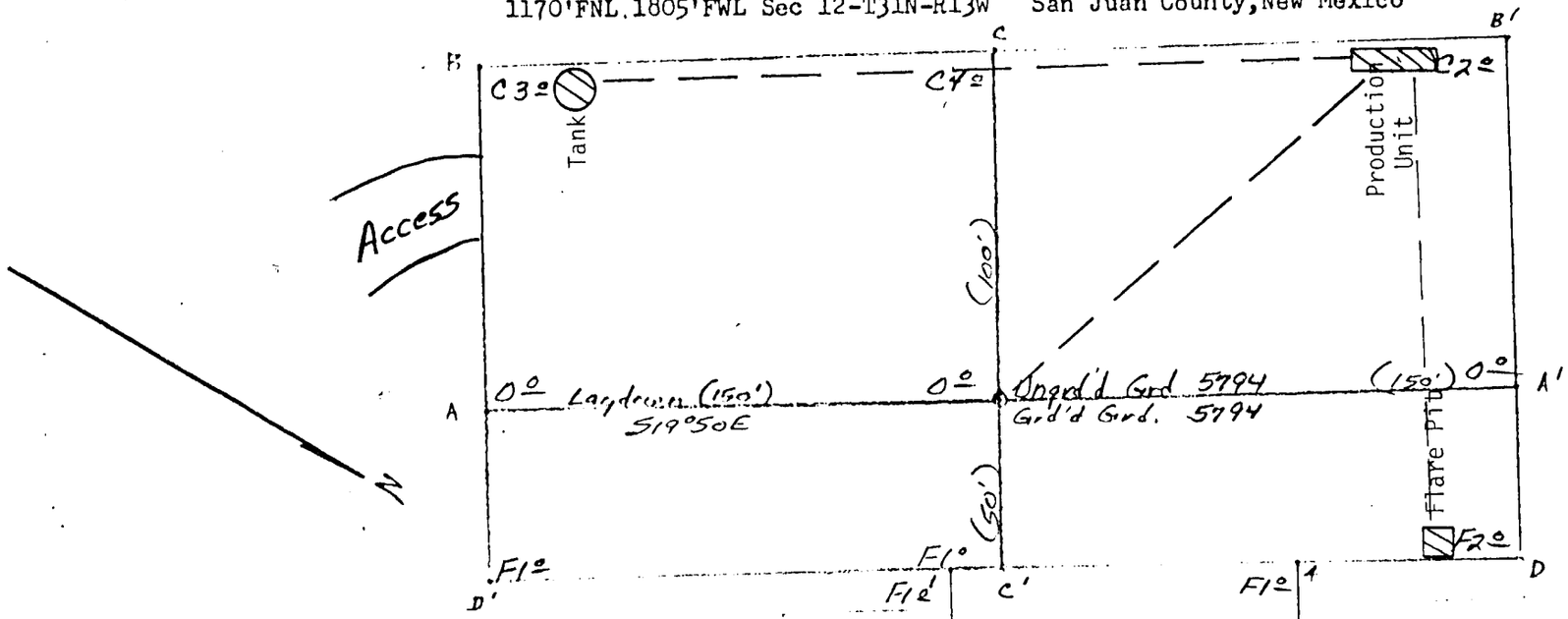


EXHIBIT "F"
Radius Map of Location
17
SO. UN
2
5846'
6983'
ONE-MILE RADIUS
A PLATA
PAN AMER.
1
5751'
6791'
Getty Oil Company
#1EM Mexico-Federal R
1170'FNL & 1805'FWL
Sec. 12 T31N R13W
San Juan County, New Mexico
RIVER
T
31
N
R 13 W
AZTE
6194'
7232'
LEGEND
LOCATION
DRY HOLE
OIL WELL
ABANDONED OIL WELL
TRIANGULATION POINT
OIL & GAS WELL
ABANDONED OIL & GAS WELL
GAS WELL
ABANDONED GAS WELL
WATER WELL

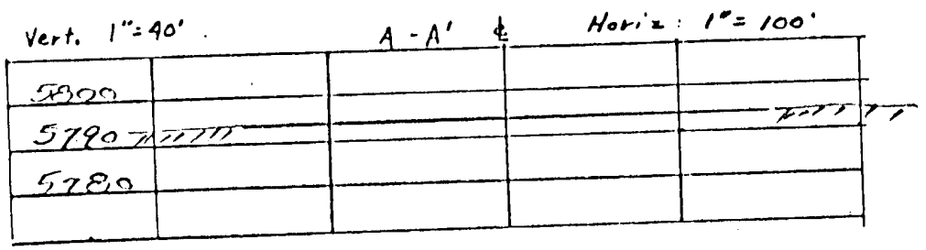
1170'FNL,1805'FWL Sec 12-T31N-R13W San Juan County,New Mexico

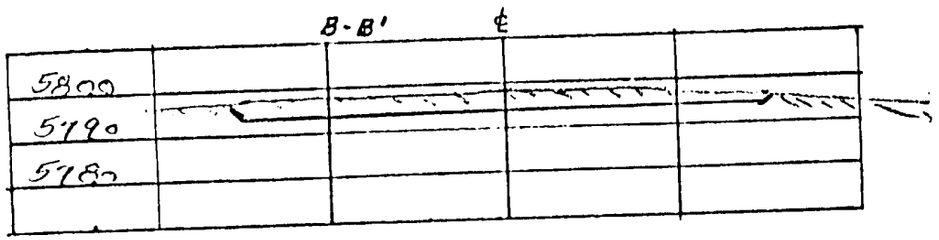
EXHIBIT "G"

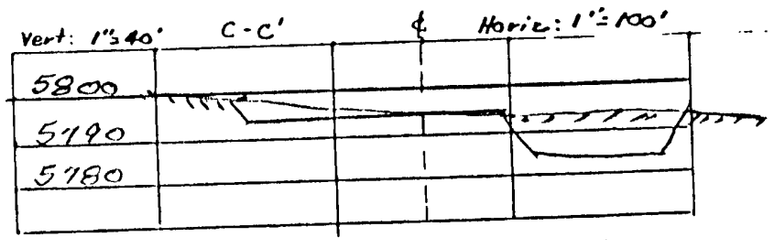
Drill Pad Layout & Cut-Fill Cross Section & Production Facilities

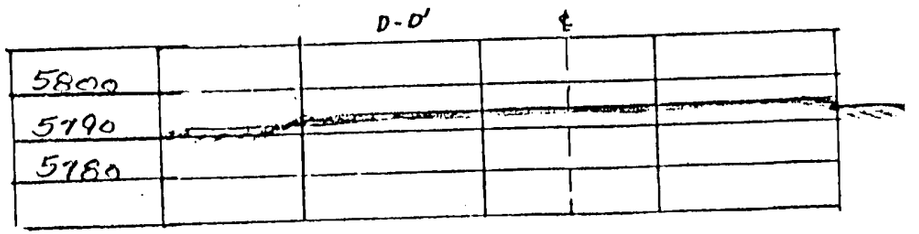


Production Facilities: 210bbl storage tank, Olman-Heath type HLP-13-80 combination production-separator, flowline.









KERR LAND SURVEYING
Date: 6/1/79

Getty Oil Company
1EM Mexico-Federal R
1170'FNL & 1805'FWL
Sec. 12 T31N R13W
San Juan County, New Mexico

EXHIBIT "H"
Drill Rig Layout