

Getty Oil Company

P. O. Box 3160
Casper, Wyoming 82602

July 22, 1977

U. S. Geological Survey
P. O. Box 959
Farmington, New Mexico 87401

Re: John Charles No. 7A
890 FNL 1550 FWL
Sec. 13 T27N-RCW
San Juan County, New Mexico

Gentlemen:

The thirteen point Surface Use and Operations Plan and the ten point Well Control Plan are submitted below in conjunction with an Application for Permit to Drill:

1. Existing roads: This proposed development well is located in the Blanco Mesaverde Field approximately 13 miles southsoutheast of Blanco, New Mexico. The roads to be used are shown on a vicinity map taken from the Bloomfield and Gould Pass Quarangle topographic maps, Figure No. 1.
2. Planned access road: Approximately 125 feet of road 24 feet wide will be constructed. It will be centerline flagged prior to inspection. Figure No. 2.
3. Location of existing wells: Shown on Figure No. 3
4. Location of tank batteries, production facilities and production gathering and service lines: Figure No. 4
5. Location and type of water supply: Water is to be obtained from the San Juan River near Blanco, New Mexico and hauled to the wellsite on existing roads.
6. Source of construction materials: On-site native soil will be used for pad construction.
7. Methods for handling waste disposal: Drill cuttings, used mud and water will be contained in the earthen reserve pit. Dry cuttings will be contained in the flare pit during gas drilling. Garbage, sewage and discarded trash will be properly contained for later burial or, if necessary, hauled to a sanitary land fill. The burn pit will be screened. Drilling mud contained in the reserve pit after the well completion will be allowed to dry out before covering by backfilling. Liquids recovered during well tests will be retained in test tanks for proper disposal.

8. Ancillary facilities: None
9. Well site layout: Figure No. 5. It is not planned to line pits.
10. Plans for restoration of the surface: As soon as practical following drilling and completion operations surplus materials will be cleared from the location. When the fenced reserve pit has dried out it will be backfilled, reshaped and seeded along with other disturbed areas not needed for production purposes. Seeding will be done according to BLM requirements for the Farmington Resources Area. See Figures No. 6 and No. 7. It is expected that seeding will be done between July 1 and September 15, 1978.
11. Other information: A general description of the terrain and vegetation can be found in the attached Archaeological Clearance Survey Report--77-SJC--100 dated 24 June 1977. Clearance has been recommended for this well site. Proper drainage ditches will be cut above any high banks around the pad to prevent serious erosion. A cut of four (4) feet will be necessary along the west edge of the well pad. There are no water wells, occupied dwellings or prominent surface features on or adjacent to the well site.
12. Lessee's or operator's representative:

Mr. Roy J. McWhirter
P. O. Box 3360
Casper, Wyoming 82602
Office phone: 307-265-8386
Home Phone: 307-234-5241

Mr. Richard P. Hergenreter
P. O. Box 510
Farmington, New Mexico 87401
Office phone: 505-325-9682
Home Phone: 505-325-2469

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 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.

7-25-77
Date

Charles Moody, AREA ENGINEER
Name and Title

JOHN ...
NE 1/4 NW 1/4 SEC. 13-27N-9W
SAN JUAN CO. NEW MEXICO

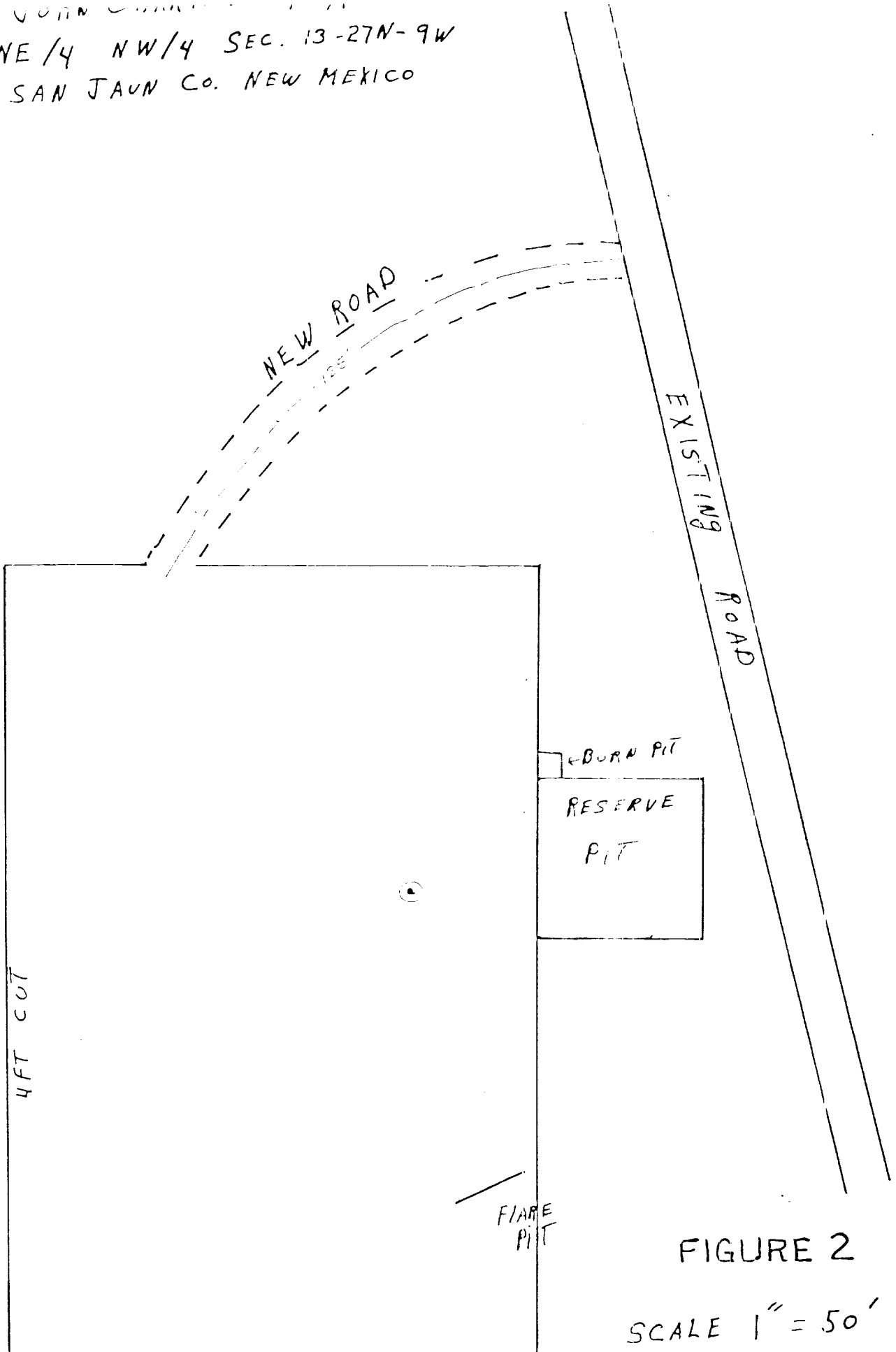
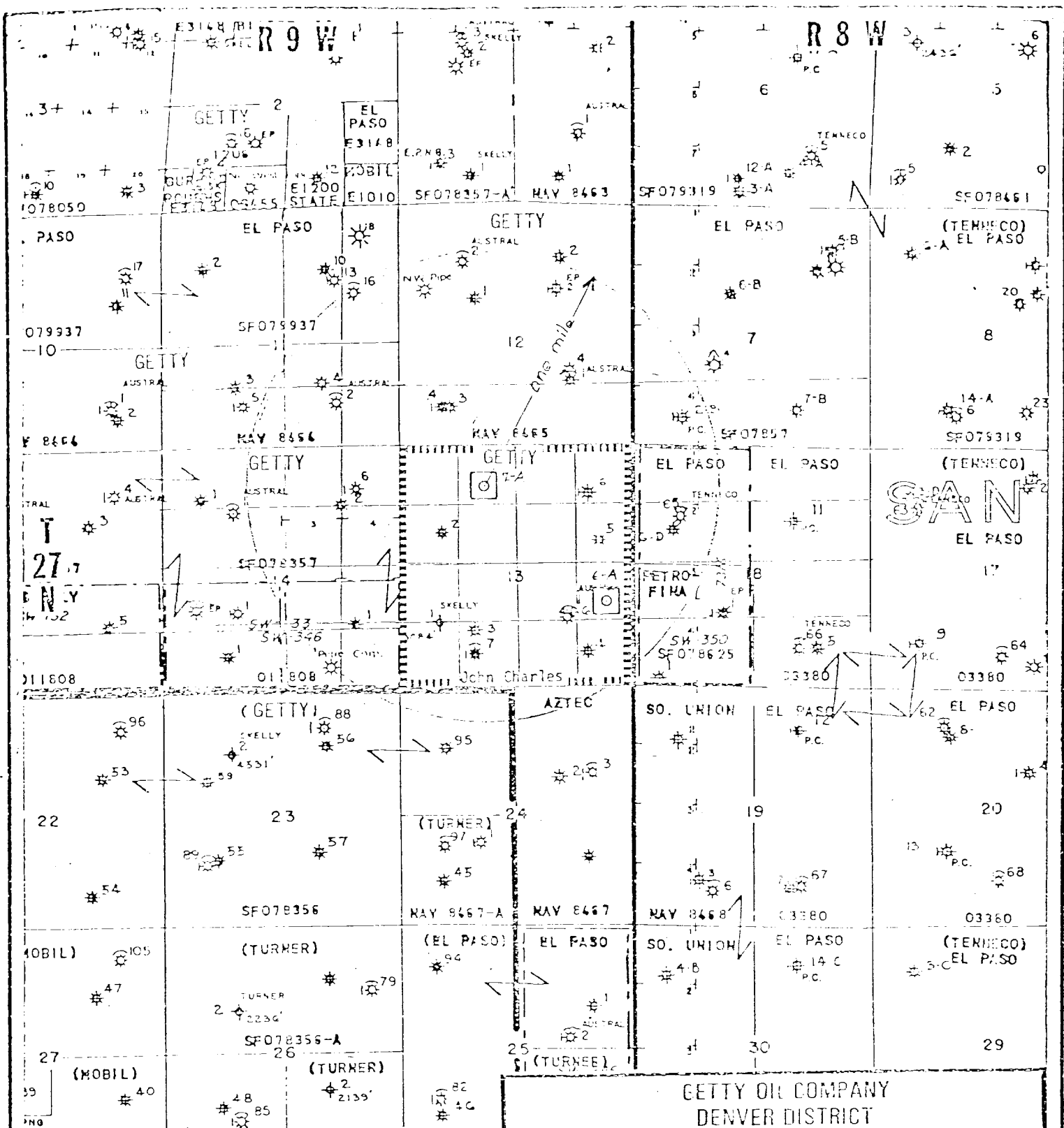


FIGURE 2

SCALE 1" = 50'

BEFORE DRILLING



WELL SYMBOLS SHOWING PRODUCING ZONES

- ☐ Dry hole
- Farmington
- Dakota
- ⊕ Fruitland
- ⊕ Morrison
- ⊕ Pictured Cliffs
- ⊕ Entrada
- ⊕ Mesaverde
- ⊕ Paradox
- ⊕ Gallup
- ⊕ Ouray
- ⊕ Tooto
- ⊕ Graneros

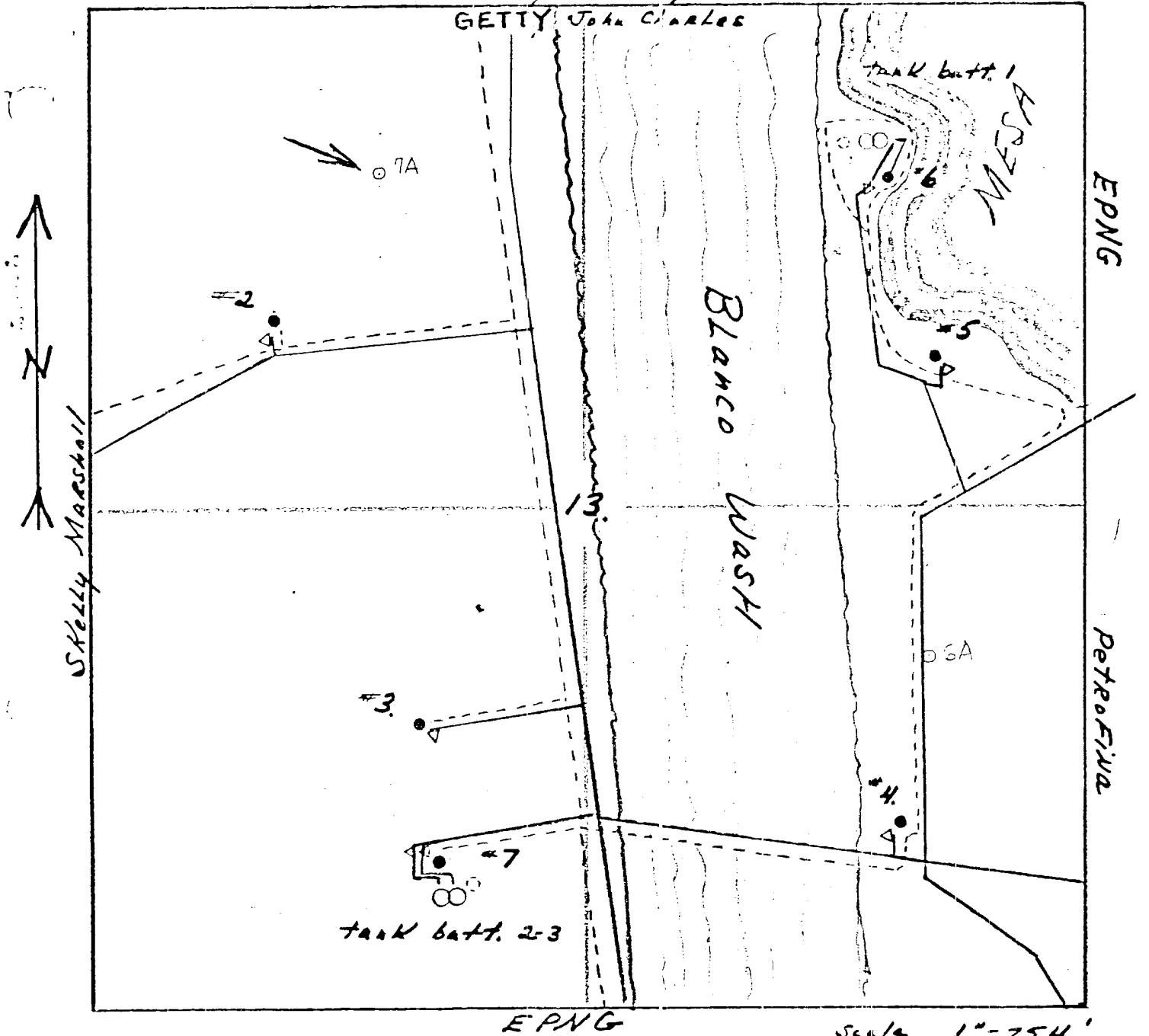
GETTY OIL COMPANY
DENVER DISTRICT

 JOHN CHARLES LEASE NO. 47618
 BLANCO MESAVERDE FIELD
 SAN JUAN COUNTY, NEW MEXICO

FIGURE 3
 Scale: 1"=3000'
 Date: June 1977

John Charles Lease Sec. 13-27N-9W San Juan County, New Mex.

GETTY Charley Pak
GETTY John Charles



Scale 1" = 754'

● Well

--- Lease Road

— EPNG Sales L.

△ EPNG Meterho

FIGURE 4

NE 1/4 NW 1/4 SEC. 13-27N-9W
SAN JUAN CO. NEW MEXICO
John Charles No. 7A

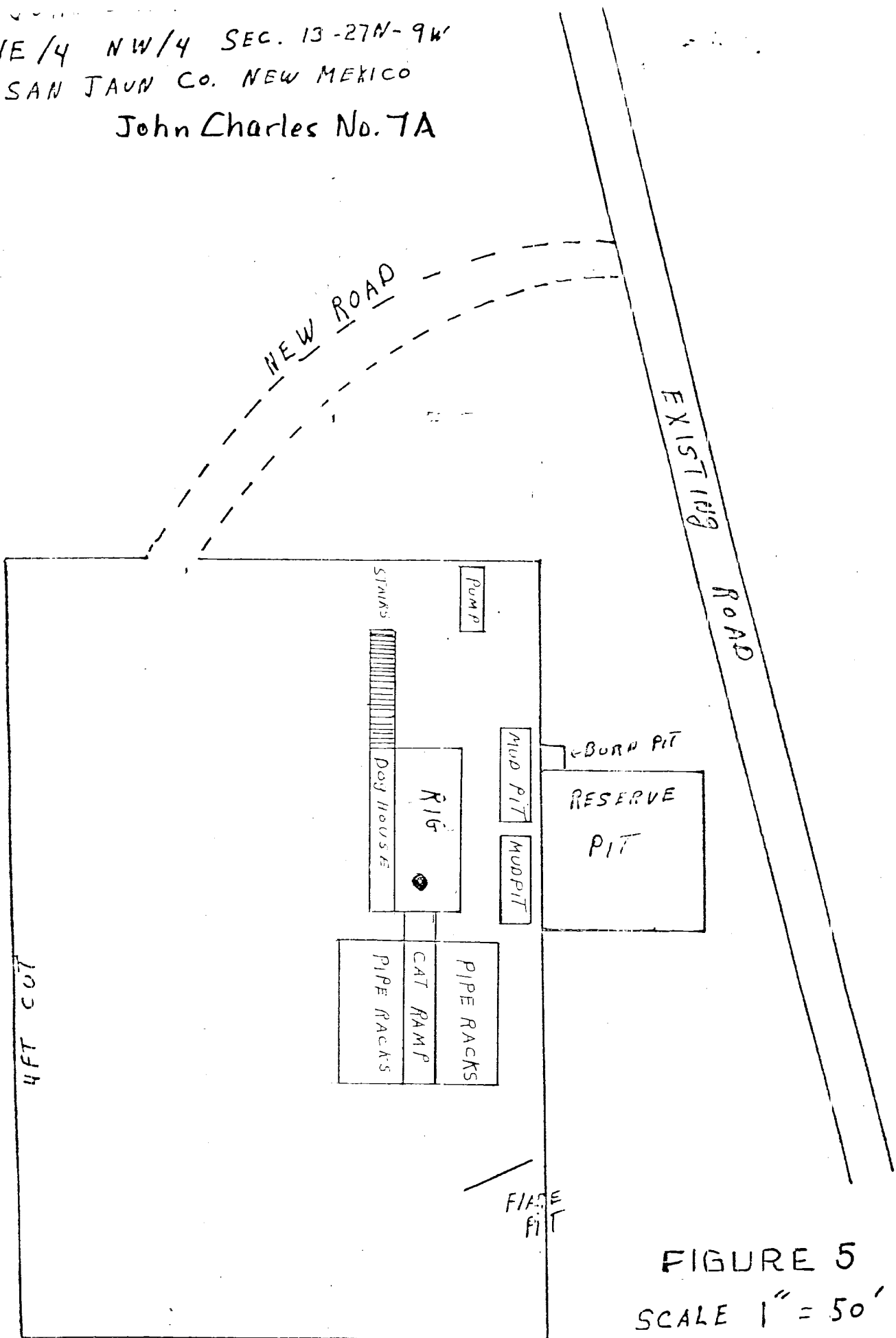
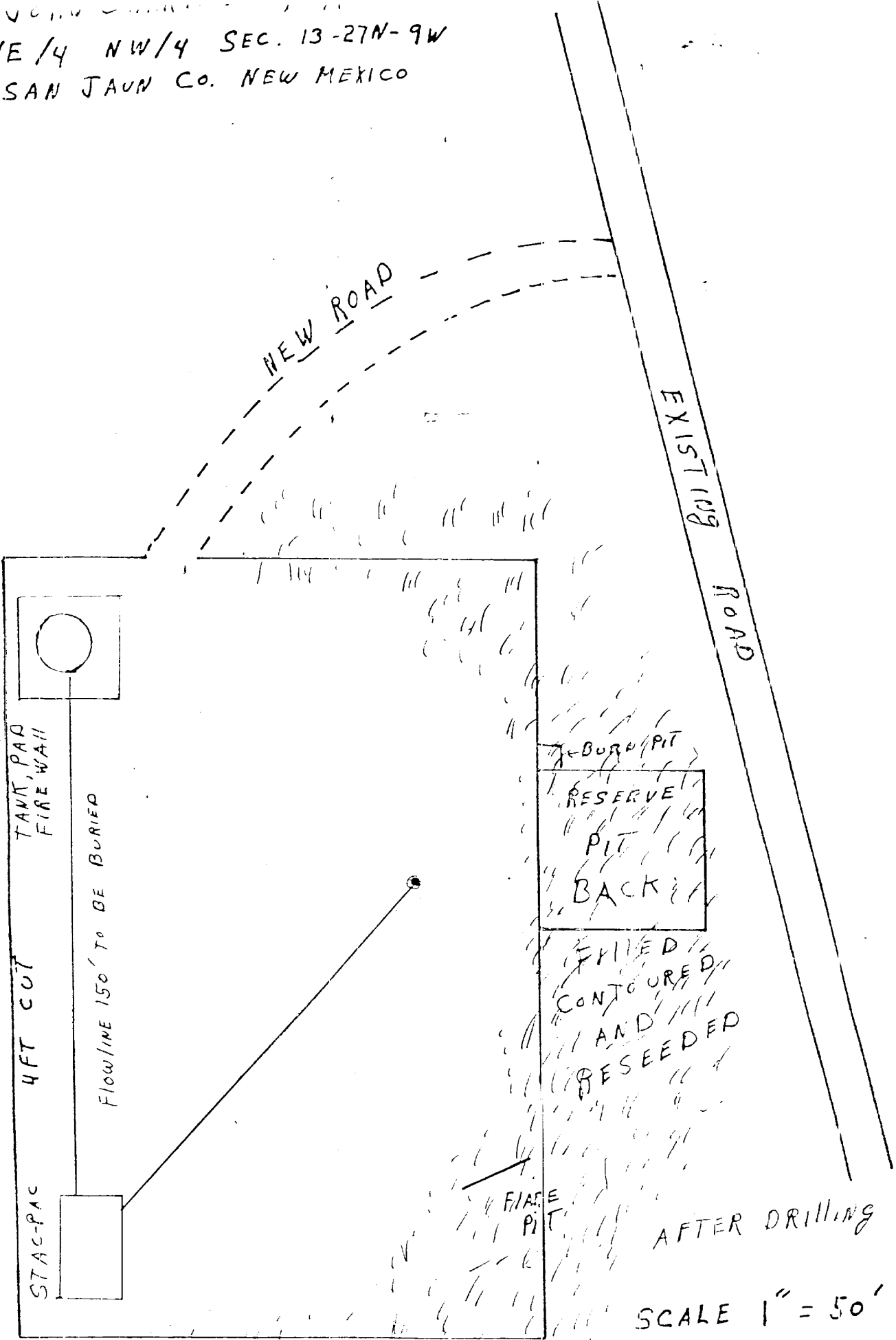


FIGURE 5
SCALE 1" = 50'
DURING DRILLING

NE 1/4 NW 1/4 SEC. 13-27N-9W
SAN JUAN CO. NEW MEXICO



AFTER DRILLING

SCALE 1" = 50'

FIGURE 6

BLM SEEDING REQUIREMENTS
IN THE FARMINGTON RESOURCE AREA

1. SEED MIXTURE 2

2. TIME:

All seeding will take place between July 1 and September 15.

3. EQUIPMENT:

Seeding will be done with a disc-type drill with two boxes for various seed sizes. The drill rows will be eight to ten inches apart. The seed will be planted not less than one-half inch deep or more than one inch deep. The seeder will be followed with a drag, packer, or roller to insure uniform coverage of the seed, and adequate compaction. Drilling will be done on the contour where possible, not up and down the slope. Where slopes are too steep for contour drilling, a "cyclone" hand seeder or similar broadcast seeder will be used. Seed will then be covered to the depth described above by whatever means is practical.

4. SPECIES TO BE PLANTED IN POUNDS PURE-LIVE SEED PER ACRE:

CRESTED WHEATGRASS (Agropyron desertorum) - $3\frac{1}{4}$ lbs.

FOURWING SALTBUSH (dewinged) (Atriplex confertifolia) - 1 lb.

SAND DROPSEED (Sporobolus cryptandrus) - $3/4$ lb.

~~WINDMILLGRASS (Elymus cinereus) - 1 lb.~~

ALKALI SACATON (Sporobolus airoides) - $3/4$ lb.

FIGURE NO. 7

Getty Oil Company

P. O. Box 3360
Casper, Wyoming 82602

July 22, 1977

United States Geological Survey
Box 939
Farmington, New Mexico 87401

Re: Ten Point Well Control
John Charles No. 7A
890' FML 1550' FML
Sec. 13-T27N-R9W
San Juan County, New Mexico

Gentlemen:

1. Surface formation is sand and sandy loam believed to be Tertiary.

2. Estimated tops of important geological markers.
Estimated KB elevation 5975, GL is 5963.

	<u>Depth</u>	<u>Datum</u>
Mesaverde	3570'	2405'
Point Lookout	4230'	1745'

3. There are no fresh water zones below 300' in the immediate area. No other water, oil, gas or other mineral bearing formations are expected to be encountered from 300' to the Mesaverde formation.

4. Proposed casing program:
(300') 9-5/8" O.D. 32.3#, H-40, 8rd, ST&C
(2400') 7" O.D., 17#, H-40, 8rd, ST&C
(2300') 4" O.D. 11.34#, J-55, 8rd, ST&C

5. The blowout preventer specifications and schematic diagram is included as a separate exhibit. The blowout preventers will be operationally and pressure tested to manufacturers specifications (3000 psi) prior to drilling out the guide shoe on the 9-5/8" O.D. surface casing. The pipe rams and hydrill will be operationally tested daily. The blind rams will be operationally tested when drill pipe is out of the hole.

6. Mud Program:

<u>Interval Feet</u>	<u>Mud Wt. (ppg)</u>	<u>Viscosity (Sec./qt.)</u>	<u>Fluid Loss (ml/30mm.)</u>	<u>Mud Type</u>
0'-300'	8.4-8.8	50-60	NC	Gel/Lime
300'-2200'	8.4-8.8	28-30	NC	Gel
2200'-2400'	8.7-8.9	45-50	10-12	Gel/polymer
2400'-4500'	N/A	N/A	N/A	Natural Gas

7. Auxiliary Equipment:
 1. Upper and lower Kelly Cocks will be used.
 2. Floats at bit will be used where permissible.
 3. Visual monitoring of mud pits and system.
 4. A sub with a full opening valve will be available to be stabbed into the drill pipe or collars when the Kelly is not in the string.
8. A DST or core will not be taken in this well. A Gamma Ray-Neutron log will be run from 4500'-2400'.
9. Abnormal pressures, temperatures or potential hazards are not expected during the drilling of this well.
10. The anticipated starting date for this well is 9/10/77. We estimate that it will take a total of twenty days to drill and complete this well.

FOUR CORNERS DRILLING CO

P.O. BOX 1067
657 WILD HORSE DRIVE
FARMINGTON, NEW MEXICO 87401

TELEPHONE: (505) 317-1122

DRILLING RIG INVENTORY
RIG NO. 2

DERRICK: CARDWELL 108' 270,000 HOOK LOAD CAPACITY

SUBSTRUCTURE: CARDWELL 9'6" X 12'6" TELESCOPING 440,000 GROSS LOAD

DRAWWORKS: CARDWELL KB-500 SELF PROPELLED BACK IN 600 HP INPUT RATED 8,000' 4 1/2" DP.

AUXILIARY BRAKE: PARKERSBURG 22" SINGLE

ENGINES: 2 GENERAL MOTORS 8V71N DIESEL 318 HP EACH

MUD PUMPS: EMSCO DA-500 POWERED BY 2 GM 8V71N ENGINES 318 HP EACH

AUXILIARY MUD PUMP: EMSCO H-25 POWERED BY 2 GM 6V71N ENGINES 160 HP EACH

DESILTER: PIONEER 10 CONE W/B.J. 5" X 6" PUMP WITH ELECTRIC MOTOR

MUD TANK: 1 5' X 10' X 50' 450 BBL. W/4 COMPARTMENTS

WATER STORAGE: 1 10' X 10' X 30' 520 BBL. TANK

GENERATORS: 1 EACH 100 KW AC

ROTARY TABLE: OILWELL SUPERSPEED 21"

TRAVELING BLOCK: McKISSICK W/WEBB WILSON HYDRA. HOOK 150 TON COMBINATION

SWIVEL: NATIONAL TYPE D 200 TON

BLOWOUT PREVENTOR: SHAFFER DOUBLE GATE HYDRAULIC 10" X 3000

SPECIAL TOOLS: TONG TORQUE INDICATOR

RATE OF PENETRATION RECORDER

SHALE SHAKER

TRAILER HOUSE

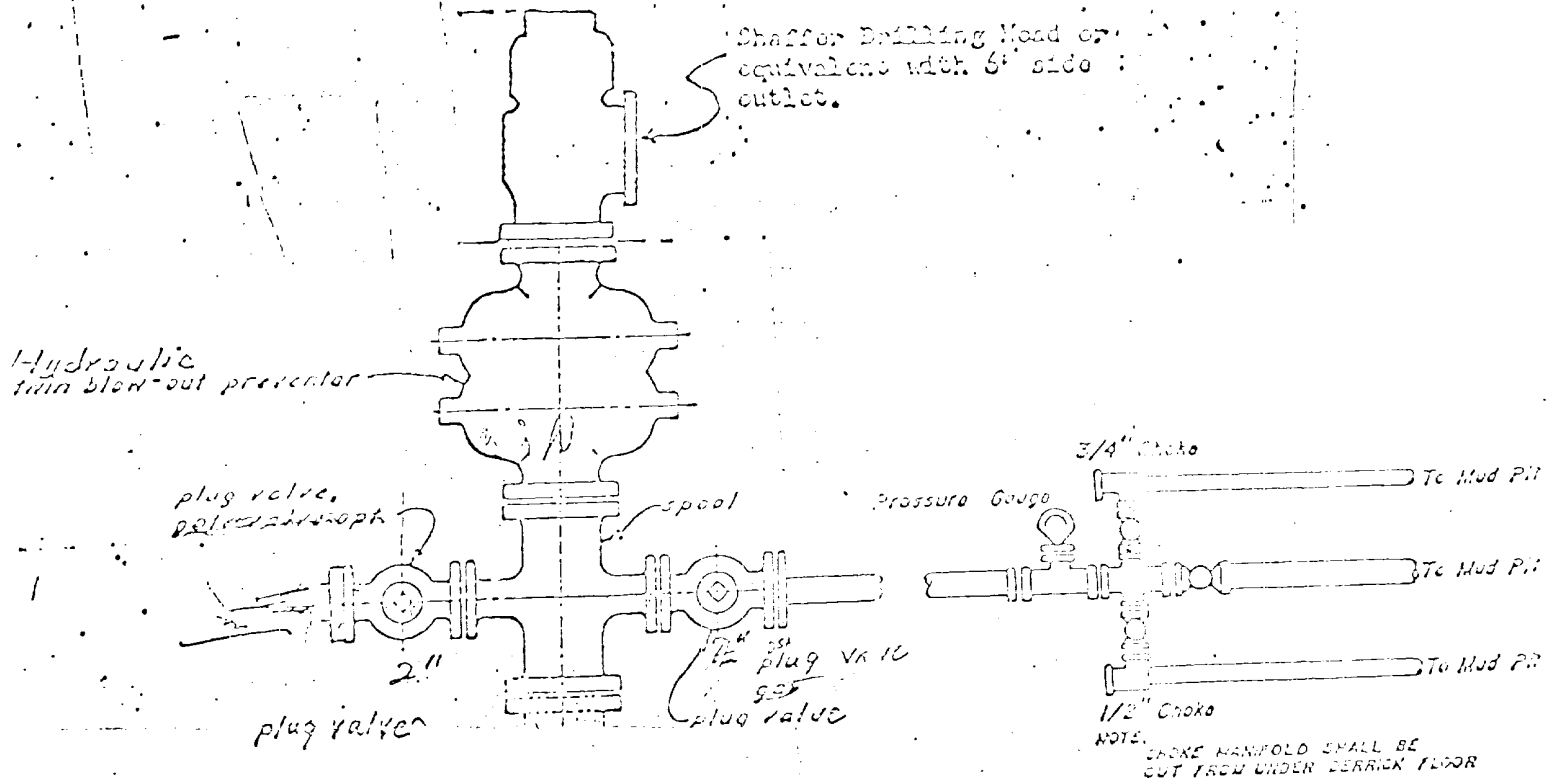
TWO WAY RADIO

NECESSARY DRILLPIPE & DRILL COLLARS TO MEET BID SPECIFICATIONS.

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