

# Getty Oil Company

P. O. Box 3360  
Casper, Wyoming 82602

July 15, 1977

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

JOHN CHARLES NO. 6A  
1850 FSL 840 FEL  
Sec. 13-T27N-R9W  
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 14 miles southsoutheast of Blanco, New Mexico. The roads to be used are shown on a vicinity map taken from the Bloomfield and Gould Pass Quadrangle topographic maps, Figure No. 1.
2. Planned access road: Approximately 70 feet of road 24 feet wide will be constructed. This 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, unnecessary materials will be cleared from the location. At such time as the fenced reserve pit has dried out it will be backfilled and along with other disturbed surfaces not needed for production purposes, reshaped and seeded. Seeding will be done according to BLM requirements for the Farmington Resource Area. See Figure No. 6. It is expected that seeding will be done between July 1st and September 15, 1978.
11. Other information: The location lies on a slight slope to Blanco Wash approximately 500 feet to the west. The soil is sand to sandy loam and vegetation consists of greasewood, Russian thistle and range grasses. Archaeological clearance has been recommended by Report 77-SJC-100 of the Cultural Resources Management Program, San Juan Campus, New Mexico State University dated 24 June 1977. The wellsite is on Indian allocated Land. There are no water wells, occupied dwellings or prominent surface features on or adjacent to the wellsite. The archaeological report is attached.
12. Lessee's or operator's representative:
- |                            |                              |
|----------------------------|------------------------------|
| Mr. Roy J. McWhirter       | Mr. Richard P. Hergenroter   |
| P. O. Box 3360             | P. O. Box 510                |
| Casper, Wyoming 82602      | Farmington, New Mexico 87401 |
| Office Phone: 307-265-8386 | Office Phone: 505-325-9682   |
| Home Phone: 307-234-5241   | 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.

Date \_\_\_\_\_ Name and Title \_\_\_\_\_

Report 77-SJC-100  
Permit 75-NM-013 &  
75-NM-018

Archaeological Clearance Survey of  
Five Proposed Well Locations Conducted  
for Getty Oil Company

Suzanne DeHoff  
Cultural Resource  
Management Program  
San Juan Campus  
N. M. State University  
24 June 1977

Archaeological Clearance Survey of  
Five Proposed Well Locations Conducted  
for Getty Oil Company

On June 23, 1977 Suzanne DeHoff of New Mexico State University's Cultural Resource Management Program, San Juan Campus, conducted an archaeological clearance survey of five proposed well locations at the request of Paul Berhost of Getty Oil Company.

Present in the field during the investigations were Messrs. Getty; Getty Oil Company, Lee Freeman; U. S. Geological Survey - Farmington, Danny Wood; W & C Contracting, and Bob Moore; of the Bureau of Land Management (only present on the two locations on BLM lands).

The proposed locations are located on Bureau of Land Management and Indian Allotted lands. Work was performed under Federal Antiquities Permits 75-NM-013 and 75-NM-018. A 300 X 300 foot area was inspected at all five proposed locations. This was done by walking around the perimeter of the location and then walking in zig-zag parallel lines over the interior of the locations. No cultural resources were found within the boundaries of the proposed pads.

MARSHALL - GENTLE "IA"

BLM lands

This proposed location lies 1640 feet from the south line and 840 feet from the east line of Section 14, Township 27 North, Range 9 West, San Juan County, New Mexico, N.M.P.M. (Figure 1)

The location is situated on a slight slope to the southeast. The terrain is gently rolling with several moderately deep arroyos

running through the area to a large wash about 400 feet to the south. The soil is a sandy loam and supports a vegetation of wheat grass, snakeweed, sagebrush, and juniper.

The well head will be approximately 150 feet south of an existing road and no new access road will be required.

No cultural resources were found and clearance is recommended.

MARSHALL A "6A"

BLM lands

This proposed location is 1660 feet from the north line and 1160 feet from the west line of Section 14, Township 27 North, Range 9 West, San Juan County, New Mexico, N.M.P.M. (Figure 1)

The vegetation in this area is piñon, juniper, prickly pear cactus, snakeweed, narrow leaf yucca, and antelope bitterbrush. The soil is a sandy loam with sandstone bedrock exposed at several places. There is a slight slope to the northeast.

Access will be from an existing location about 200 feet to the east.

No cultural resources were found and clearance is recommended.

JOHN CHARLES "6A"

Indian Allotted land

This proposed location is 1850 feet from the south line and 840 feet from the east line of Section 13, Township 27 North, Range 9 West, San Juan County, New Mexico, N.M.P.M. (Figure 1)

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The location lies on a slight slope to Blanco Wash approximately 500 feet to the west. The soil is a sand to sandy loam and vegetation consists of greasewood, russian thistle, and range grasses.

The well head will be 160 feet west of an existing road and no new access will be required.

No cultural resources were found and clearance is recommended.

JOHN CHARLES "7A"

Indian Allotted land

This proposed location is 890 feet from the north line and 1550 feet from the west line of Section 13, Township 27 North, Range 9 West, San Juan County, New Mexico, N.M.P.M. (Figure 1)

Vegetation includes sagebrush, gramma, and greasewood. The soil is a sandy loam and the site is situated on a slight slope to the east. Blanco Wash is located approximately 1000 feet to the east.

The access road will be about 125 feet long and come in from the northeast from an existing road.

There is an old Navajo hogan about 700 feet to the south of the location. It is on the south side of a small hill and not visible from the location.

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No cultural remains were found within the area of the proposed location or access road and clearance is recommended.

NELLIE PLATERO "5A"

Indian Allotted land

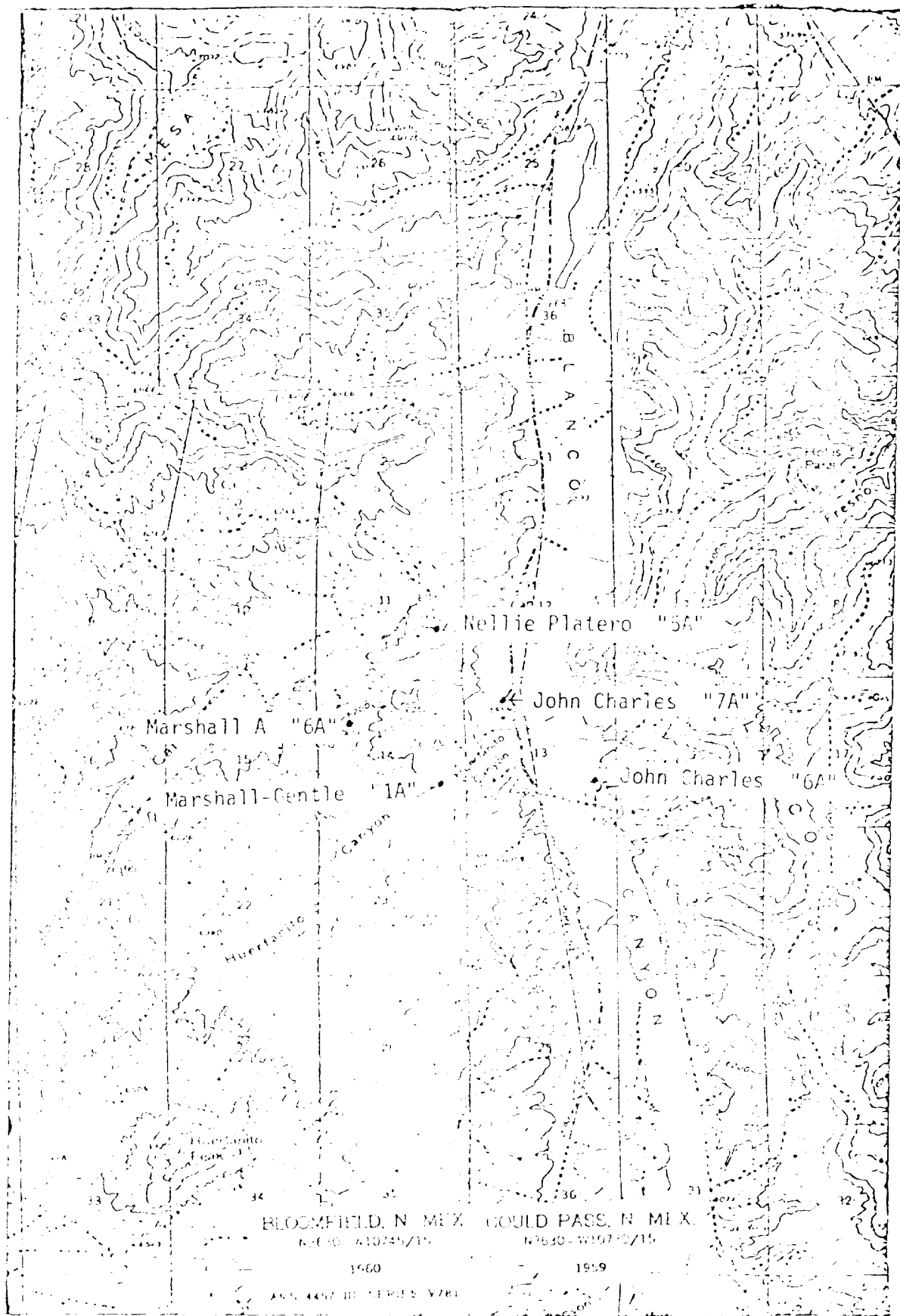
This location is found 1270 feet from the south line and 1135 feet from the east line of Section 11, Township 27 North, Range 9 West, San Juan County, New Mexico, N.M.P.M. (Figure 1)

Vegetation on the location consists of sagebrush, greasewood, and sparse range grasses. The soil is sand. The terrain is flat and the location is on the edge of a wash.

Access will be a road about 800 feet long and coming from a well to the west.

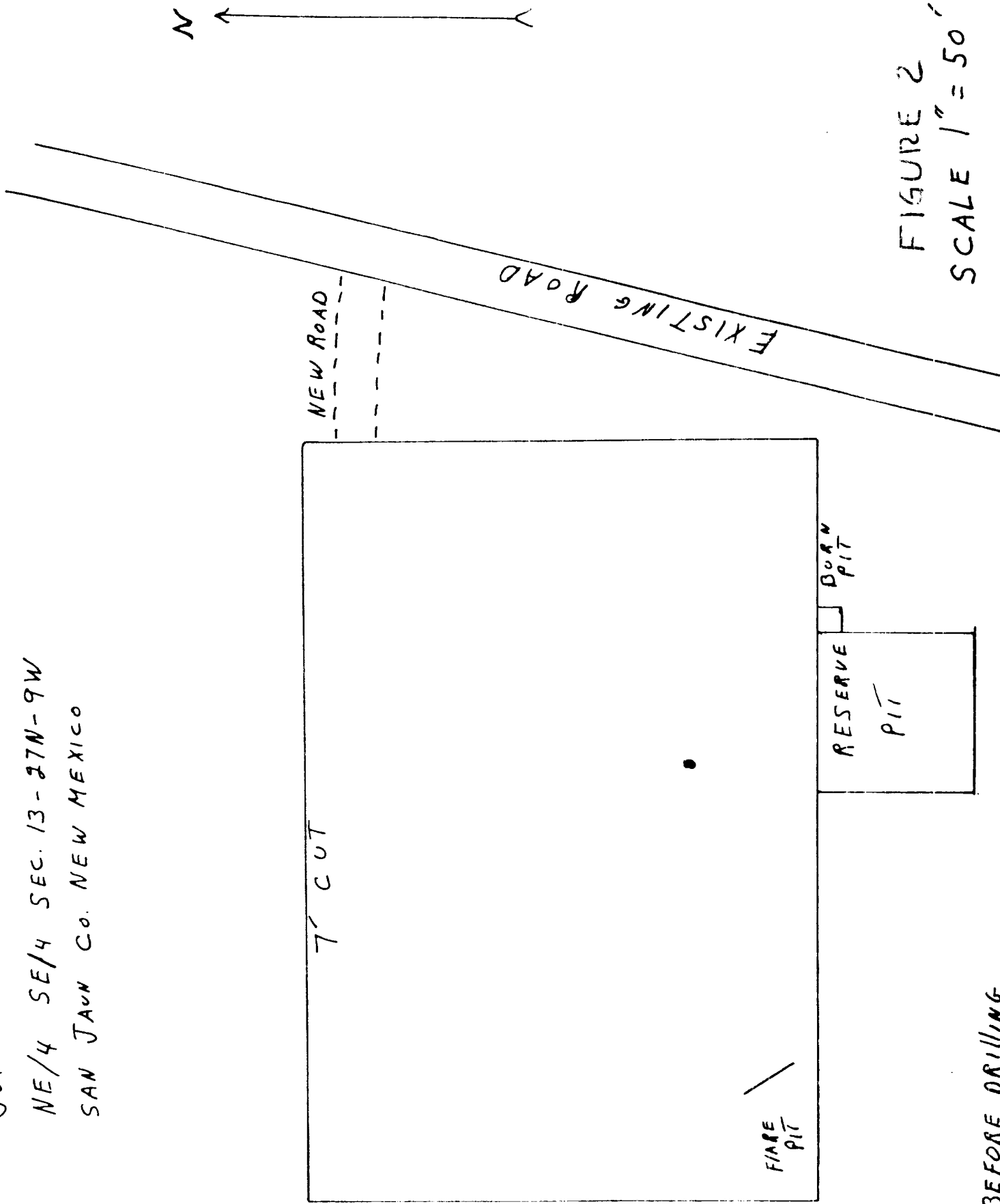
A Navajo summer camp used from around 1958 to 1962 (personal communication from Danny Wood) was found 200 feet northwest of the northwest edge of the location. Cultural materials consisted of tin cans and broken glass and dishes. This camp is outside of the well location area and is not in danger of destruction during the construction.

No cultural remains were found within the location or access road boundaries and archaeological clearance is recommended.

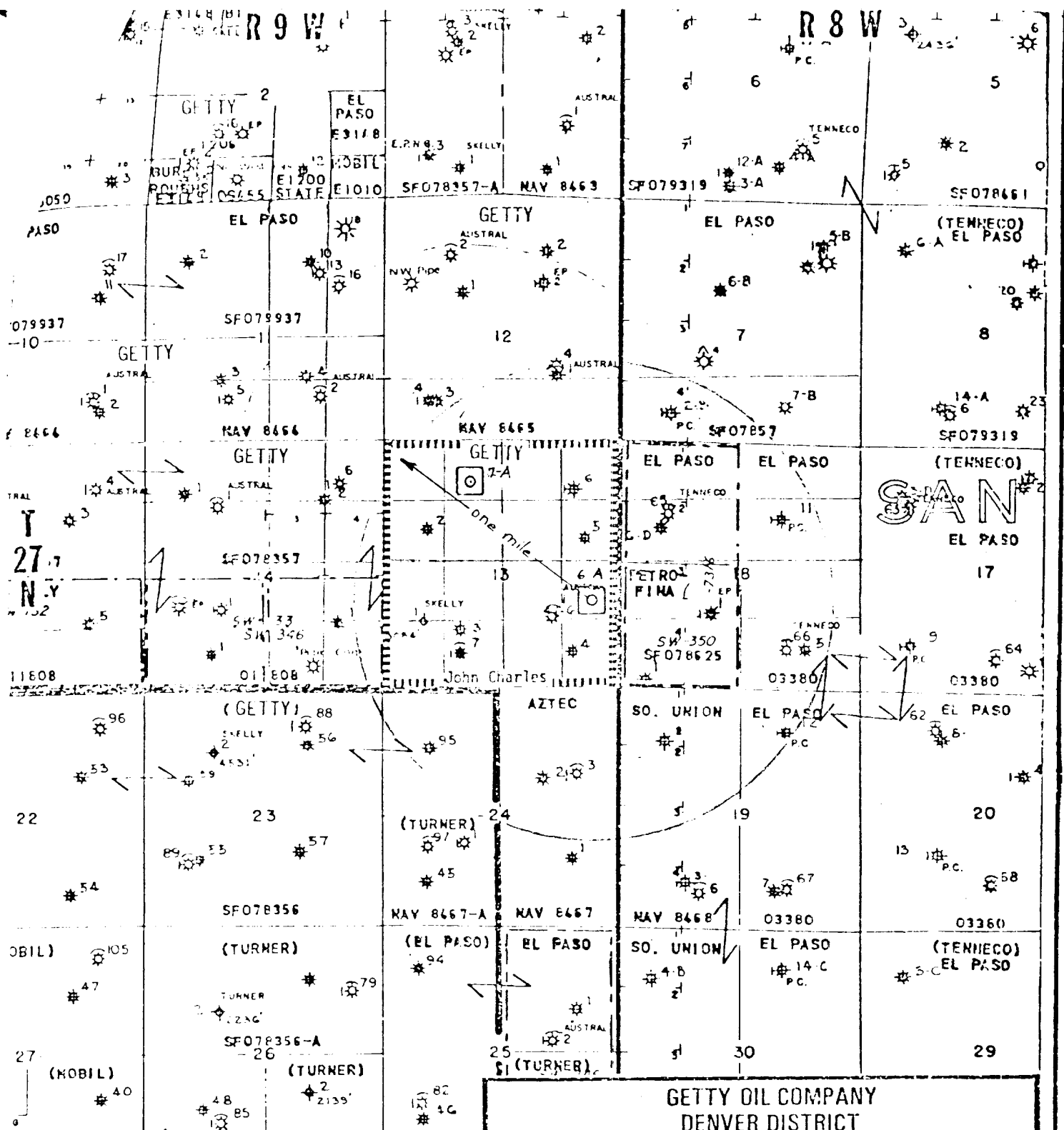


[illegible]

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

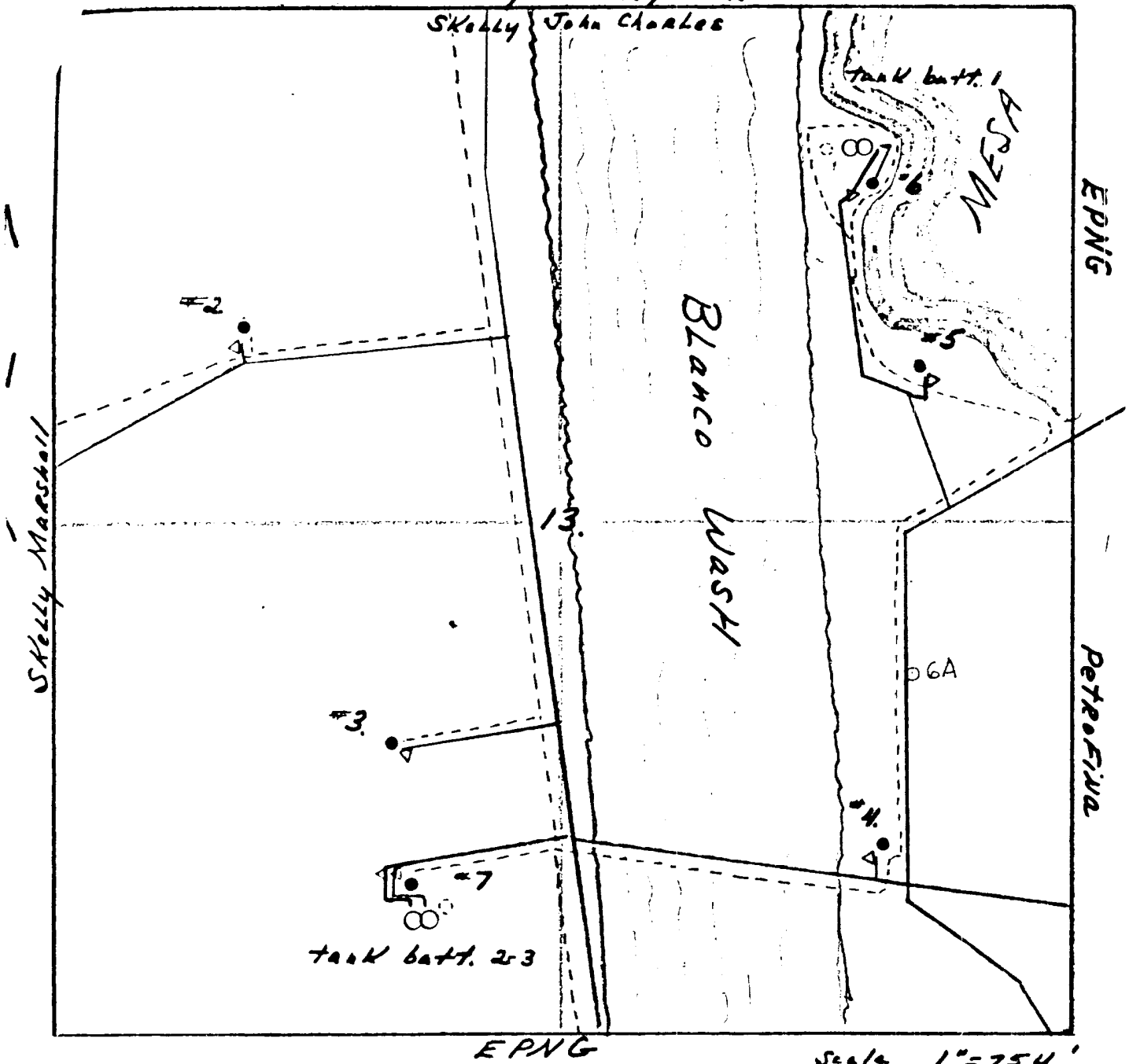


BEFORE DRILLING



Charles Lease Sec. 15-27N-7W San Juan County, New M.

Skelly Chanley Pak  
Skelly John Charles

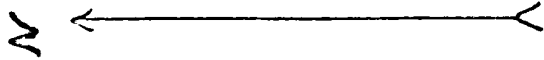


Scale 1"=754'

- Well
- Lease Roads
- EPNG Sales L.
- △ EPNG Metering

FIGURE 4

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



NEW ROAD

EXISTING ROAD

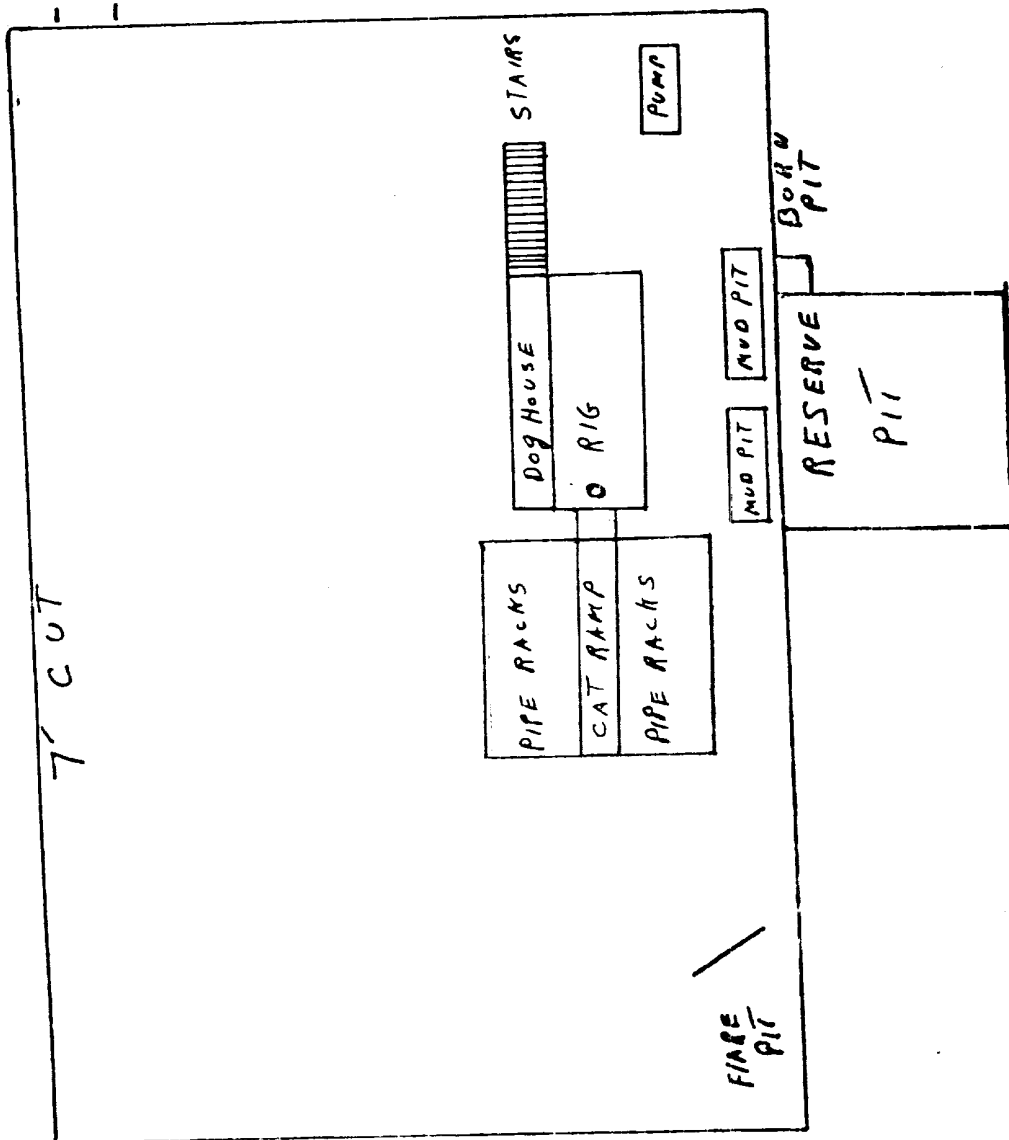


FIGURE 1

DURING DRILLING

SCALE 1" = 50'

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

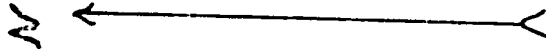
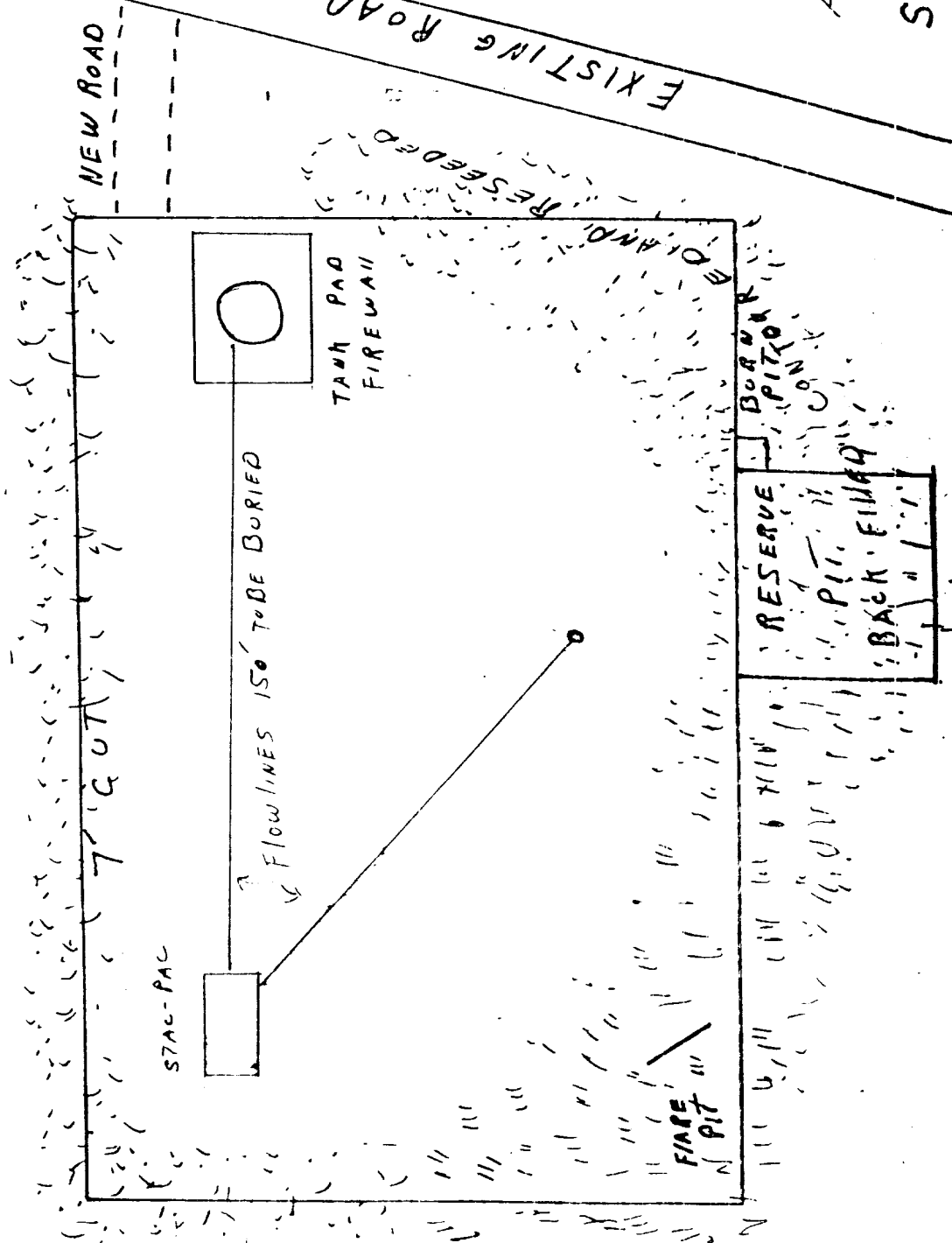


FIGURE 6

AFTER DRILLING

SCALE 1" = 50'



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) - 5 1/2 lbs.

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

SAND DROPSEED (Sporobolus airoides) - 3/4 lb.

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

FIGURE 6A

# Getty Oil Company

P. O. Box 3360

Casper, Wyoming 82602

Re: Ten Point Well Control Plan  
John Charles No. 6A  
1850' FSL 840' FEL  
Sec. 13-T27N-R9W  
San Juan County, New Mexico

United States Geological Survey  
Box 959  
Farmington, NM 87401

Gentlemen:

1. Surface formation is sand.
2. Estimated tops of important geological markers.  
Estimated KB elevation 5988.

	<u>Depth</u>	<u>Datum</u>
Mesaverde	3580'	2408'
Point Lookout	4240'	1748'

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" OD, 32.3#, H-40, 8rd, ST&C  
(2400') 7" OD, 17#, H-40, 8rd, ST&C  
(2300') 4" OD, 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" OD 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</u> <u>Feet</u>	<u>Mud Wt.</u> <u>(ppg)</u>	<u>Viscosity</u> <u>(Sec./qt.)</u>	<u>Fluid Loss</u> <u>(ml/30mm.)</u>	<u>Mud</u> <u>Type</u>
0'-300'	8.4-8.8	40-42	NC	Gel/Lime
300'-2400'	8.4-8.8	27-45	NC	Selex
2400'-2500'	n/a	n/a	n/a	Natural Gas

7. Auxillary 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 8/20/77. 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) 327-1122

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" I

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 671N 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

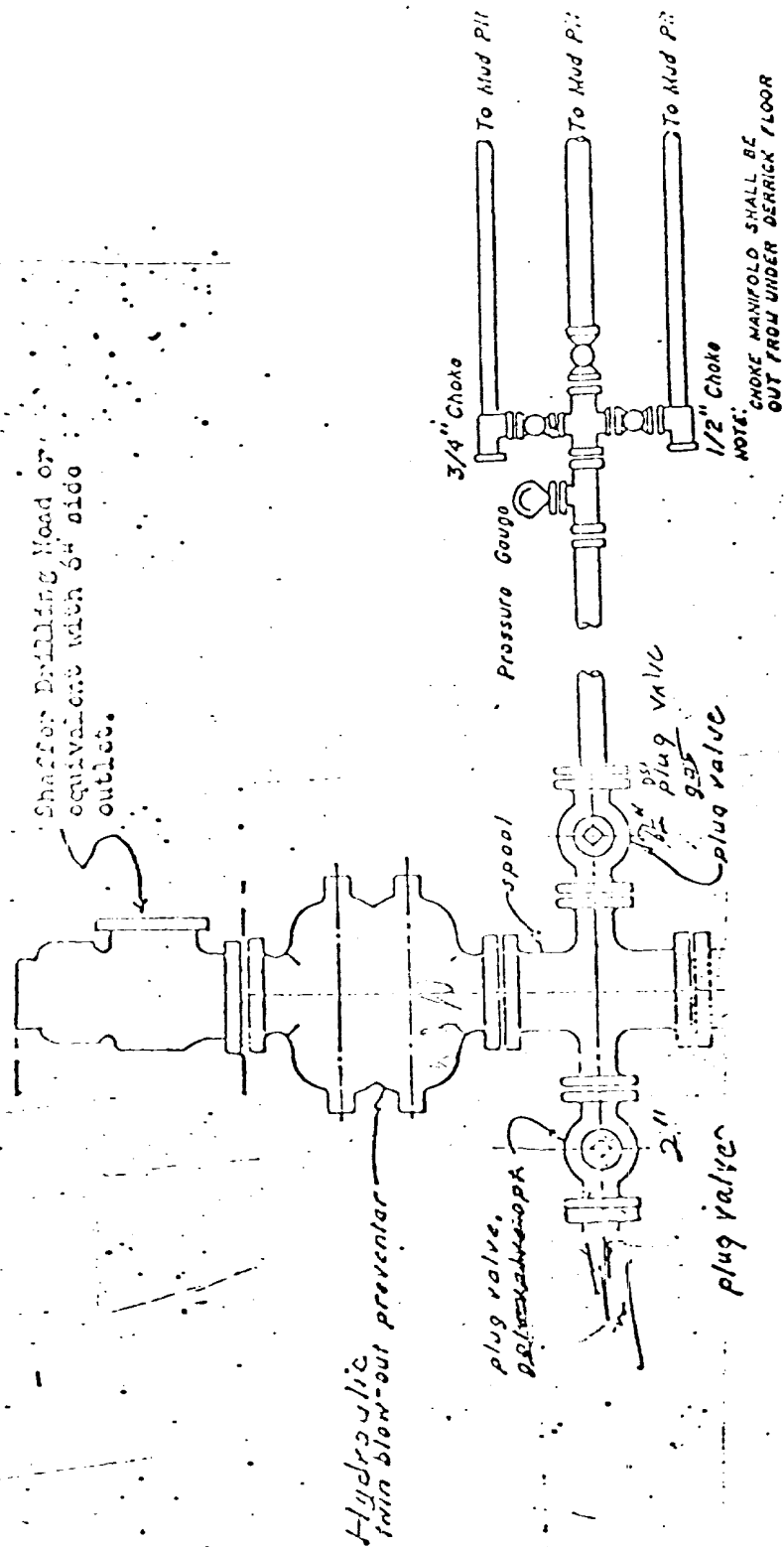
ROTARY TABLE: OILWELL SUPERSPEED 21"

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.



FOUR CORNERS DRILLING CO.

P. O. BOX 1067  
702 E. BROADWAY  
FARMINGTON, NEW MEXICO 87401

TELEPHONE: (505) 327-1122

Reserve Pit

