equipment.

Drill string safety valve(s) to fit all pipe in the drill string will be maintained on the rig floor while drilling operations are in progress.

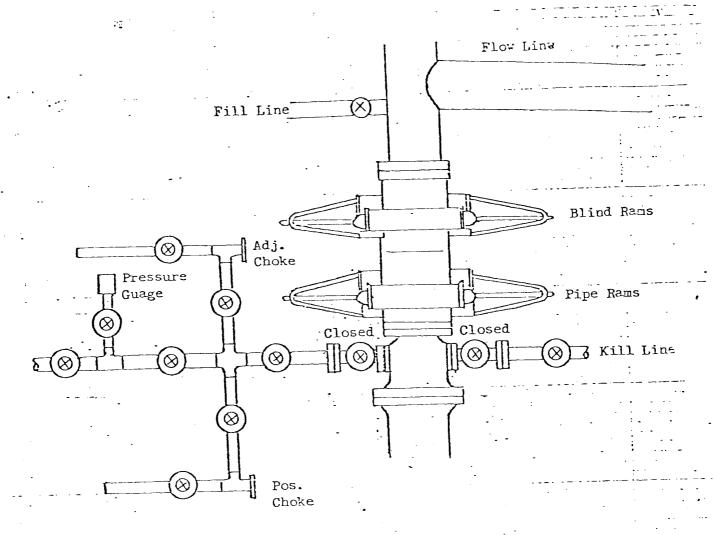
Coring program will consist of coring the upper and lower zones (approximately 1545' to 1665' Induction electric-gamma ray and density neutron surveys will be done. No abnormal pressures or temperatures are anticipated.

The drilling of this well will take approximately 10 days.



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. Div. Production Manager SIGNED _ (This space for Federal or State office use)

NMOCC



_All valves 2"

Tall BOPs, flanges, spools,
Tvalves, & lines must be series 900
Tor 3000 psi working press.

Choke manifold must be at ground level and extended out from under substructure.

TENNECO OIL COMPANY

REQUIRED MINIMUM BLOWOUT PREVENTOR

HOOKUP :

Denver, Colorado

Existing Roads

- A. Proposed Well Site Location:
 The proposed well site location was surveyed and staked by a registered land surveyor and is located 1120' FNL and 2510' FEL, McKinley County, New Mexico. (See Exhibit I Well Location Plat)
- B. Planned Access Route: The planned access route goes south from Hospah into Tenneco's Lower Hospah field with existing roads. (See Exhibit II)
- C. Access Road Labelled:'

Color Code: Red - Improved Surface Blue - New Access Road

- D. Not applicable the proposed well is a development well.
- E. The proposed well is a development well. See Exhibit III for existing roads within a one mile radius.
- F. Existing Road Maintenance or Improvement Plan: The existing roads will require minimal maintenance.

2. Planned Access Roads

(All roads are existing roads.)

- A. Width:
 The average width of the road is twelve feet.
- B. Maximum Grades:
 The maximum grades is about one percent, because the area is nearly level, with some rolling hills.
- C. Turnouts: There are no turnouts planned as sight distance is sufficient.
- D. Drainage Design:
 The road is center crowned to allow drainage. The road is flat primarily.
- E. Culverts Use Major Cuts and Fills:
 The terrain is relatively flat and drainages are not too numerous. Culverts will probably not be needed because we can slope dry drainage crossings to maintain normal drainage.
- F. Surfacing Material:
 Native soil has been wetted, bladed and compacted to make the road surface, which is existing.

Planned Access Roads (Cont'd) 2.

- Gates, Cattleguards, Fence Cuts: G. No gates, cattleguards or fences will be needed.
- New Roads Centerlined Flagged: Н. Existing Roads.

Location of Existing Wells 3.

The proposed well is a development well. ExhibitIII shows existing wells within a one mile radius.

- Water Wells: One. Α.
- None. Abandoned Wells: В.
- Temporarily Abandoned Wells: One. С.
- Disposal Wells: One. D. Drilling Wells: None. Ε.
- Producing Wells: See Exhibit III F.
- Shut-In Wells: None. G. Injection Wells: 26. Н.
- Monitoring or Observation Wells: None. I.

Location of Existing and/or Proposed Facilities 4.

- Existing facilities within one mile owned or controlled Α. by Lessee/Operator:
 - Tank batteries See Exhibit III (1)
 - Production facilities See Exhibit III
 - (2) (3) Oil Gathering Lines - See Exhibit (see below) Gas Gathering Lines - See Exhibit (see below) (4)
 - Injection Lines to injection wells. (5)
 - Disposal Lines to Whigham Well #2 SE/NE Section 11. (6)

The area has numerous lines throughout the area which were installed over the mast several years. It would be extremely difficult to show each line as they exist in this area.

- New facilities in the event of production: В.
 - N/A (1)
 - (2) N/A

Existing facilities will be used in the event of production.

- Construction Materials/Methods: Construction materials will be native to the site. Facilities will consist of a well pad and later a pumping unit.
- Protection of Wildlife/Livestock: (4)Pumping units will be guarded to prevent contact with any moving parts which would present a potential hazard to wildlife.

Location of Existing and/or Proposed Facilities (Cont'd)

- B. New facilities in the event of production: (cont'd)
 - (5) Proposed power line will follow existing, cleared routes already in existence.
- C. Rehabilitation of Disturbed Areas:
 Following the completion of construction, those areas required for continued production will be graded to provide drainage and minimize erosion. Those areas unnecessary for use will be graded to blend with surrounding topography per BLM recommendations.

Location and Type of Water Supply

- A. Location and type of water supply:
 Water will be hauled from and bought from a private source
 (rancher) located near White Horse Trading Post.
- B. Water Transportation System: Water trucks will be used.
- C. Water wells: N/A:

6. Source of Construction Materials

- A. Materials:
 Construction materials will consist of soil native to the site. Any topsoil, if present, will be stripped and stockpiled as needed.
- B. Land Ownership; The planned site and access road is on federal land administered by the Bureau of Land Management.
- C. Materials Foreign to the Site: N/A.
- D. Access Roads: No additional roads will be required.

7. Methods for Handling Waste Disposal

- A. Cuttings: Cuttings will be contained in the reserve pit.
- B. Drilling Fluids: Drilling fluids will be retained in the reserve pit.
- C. Produced Fluids:
 Produced fluids, including produced water will be collected in the reserve pit. Any small amount of hydrocarbon that may be produced during testing will be retained in the reserve pit. Prior to clean up operations, the hydrocarbon material will be skimmed.

7. Methods for Handling Waste Disposal (Cont'd)

- D. Sewage:
 Sanitary facilities for sewage disposal will consist of at least one pit toilet, during the driller operations.
 The pit will be backfilled immediately following completion of the drilling operation.
- E. Garbage:
 There probably will not be much putriscible garbage to dispose of. However, it will be disposed of along with the refuse in a constructed burn pit, which will be fenced. The small amount of refuse will be burned and the pit will be covered with a minimum 36 inch cover upon completion.
- F. Clean-Up of Well Site:
 Upon the release of the drilling rig, the surface of the drilling pad will be prepared to accommodate a completion rig, if testing indicates potential productive zones. In either case, the "mouse hole" and "rat hole" will be covered to eliminate a potential hazard to livestock. The reserve pit will be fenced to prevent entry of livestock until the pit is backfilled. Reasonable clean up will be performed prior to final restoration of the site.

8. Ancillary Facilities

None required.

9. Well Site Layout

- A. No major cuts and fills will be necessary.
- B. Location of pits, etc. See Exhibit IV
- C. Rig orientation etc. See Exhibit IV
- D. Lining of pits: Pits will not be lined. They will be covered with a fine mesh netting, if necessary, for the protection of wildlife if fluids are found to be toxic.

10. Plans for Restoration of Surface

A. Reserve pit clean up:
The pit will be fenced prior to rig release and shall be maintained until clean up. Prior to backfilling any hydrocarbon material on the pit surface will be removed. The fluids and solids contained in the pit shall be backfilled with soil excavated from the site and with soil adjacent to the reserve pit. The restored surface of the reserve pit will be contoured as needed to minimize erosion. The reserve pit area will be seeded per BLM recommendations during the appropriate season following final restoration of the site.

10. Plans for Restoration of Surface (Cont'd)

- B. Restoration Plans Production Developed:
 The reserve pit will be backfilled and restored as described under Item A. In addition, those disturbed areas not required for production will be graded to blend with the surrounding topography, and seeded, per BLM recommendations. The portion of the drill pad required for production and turning areas will be graded to minimize erosion and provide access to production facilities under inclement conditions. Following depletion and abandonment of the site, restoration procedures will be those under Item C. below.
- C. Restoration Plan No Production Developed:
 The reserve pit will be restored as described above. With no production developed, the entire surface disturbed by construction of the drilling pad will be restored. The site will be contoured to blend with the surrounding topography. The site will be seeded according to BLM recommendations. If the new access road is not required for other development plans, it will be obliterated and restored and seeded per BLM recommendations.
- D. Rehabilitation Time Table:
 Upon completion of operations the intial clean up of the well site will be performed. Final restoration of the site will be performed as soon as possible according to procedural guidelines published by the USGS and BLM. Seeding of the disturbed areas which are no longer required will be performed during the appropriate season, following final restoration.

11. Other Information

- A. Surface Description:
 The well site is located in low rolling hills, sandy soil and sparse vegetation, consisting of grasses and semi-arid plant life such as Yucca and Prickly Pear Cactus.
- B. Surface Use Activities: The surface is federally owned and managed by the BLM. The predominant surface use is mineral exploration and production.
- C. Proximity of Water, Dwellings and Historical Sites:
 - Water: There are no reservoirs or streams in the immediate area.
 - Occupied Dwellings: There are no occupied dwellings or buildings in the area.
 - Sites: An archeological reconnissance has been performed for this location and clearance has been granted.

12. Operator's Field Representative

Donald S. Barnes
Division Drilling Engineer
Tenneco Oil Company
720 South Colorado Blvd.
Penthouse
Denver, CO 80222
(303) 758-7130 Ext. 212

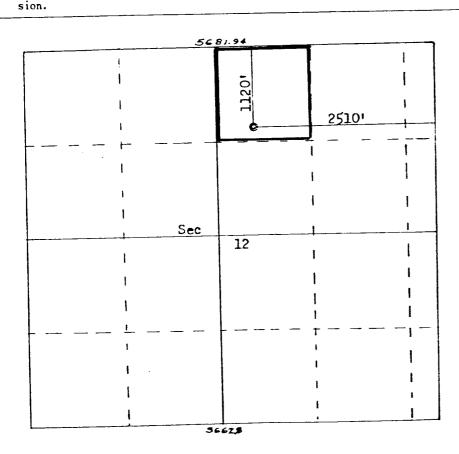
13. Certification

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 as they actually exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the proposed work performed by Tenneco Oil Company and its contractors and subcontractos will conform to this plan.

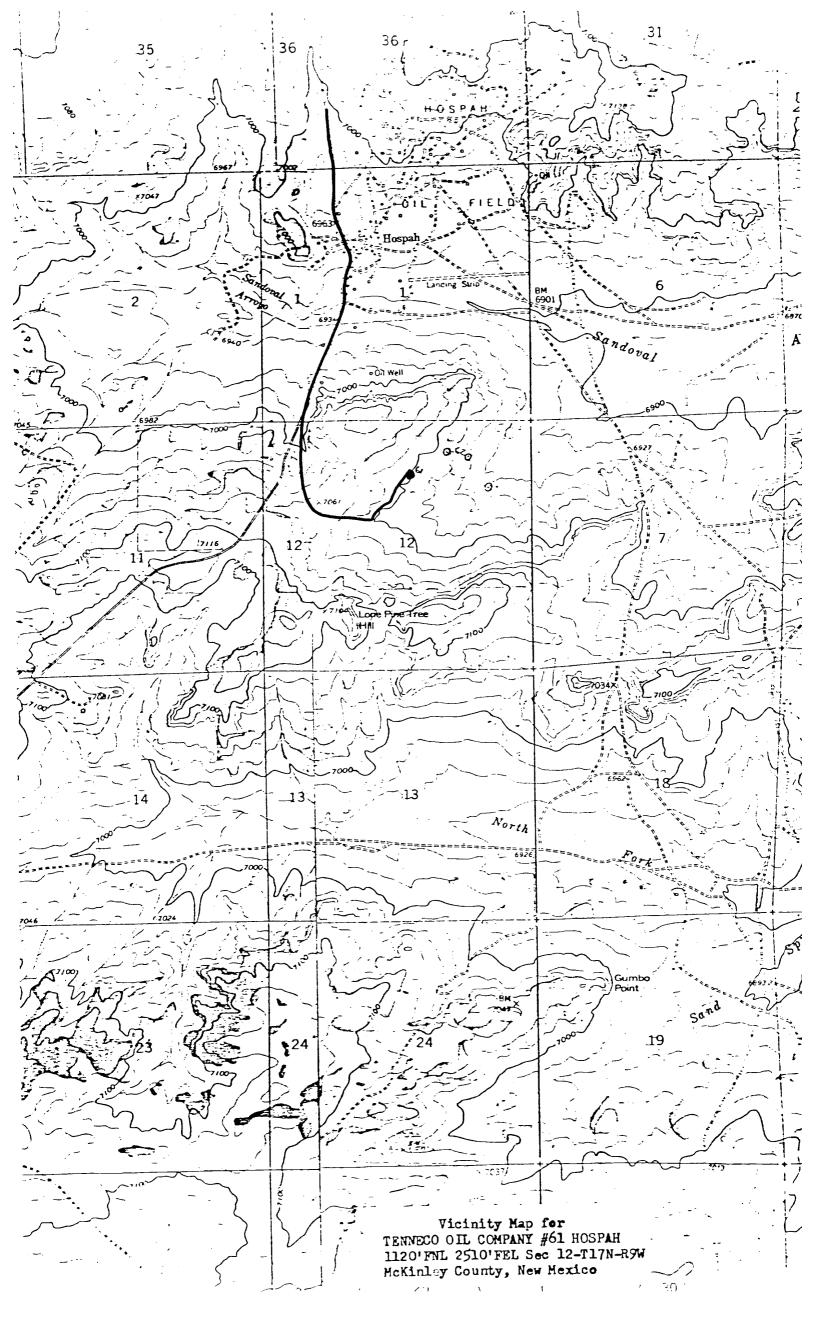
Date: 2-31-78	D.D. Myen
	D. D. Myers () Division Production Manager
	Division Production Manager

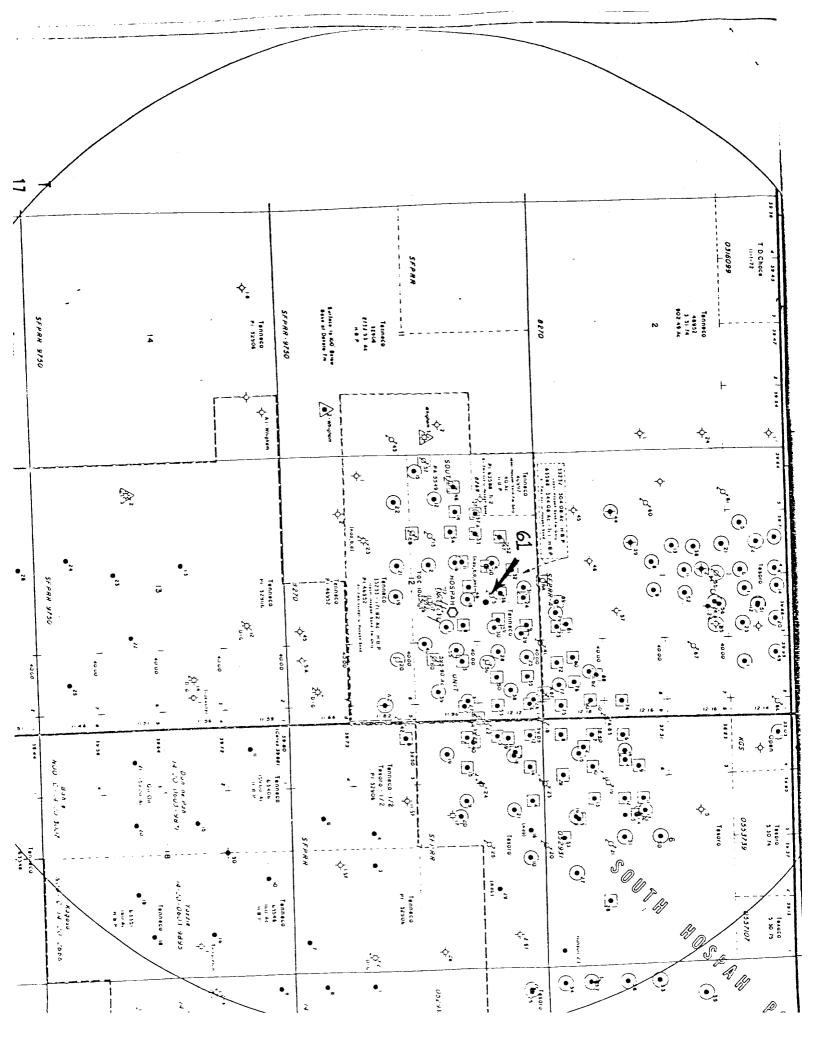
NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section Well No. Lease Operator 61 HOSPAH TENNECO OIL COMPANY Range Township Section Unit Letter McKinley 17N В Actual Footage Location of Well: 2510 feet from the 1120 North feet from the Dedicated Acreage: Ground Level Elev. Producing Formation South Hospah Lower Lower Hospah 7003 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? If answer is "yes," type of consolidation _ Yes 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 Commis-



CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Name Environmental this plat was plotted from field octual surveys mode by me or no supervision of that the same Date Surveyed 1378 July 21 Fred Certificate No S KEEP. 3950





TENNECO OIL COMPANY CALCULATION SHEET Exhibit IV_
Drilling Well Site Layout - Lower Hosph Well 61
DECATION 1120 FAL 2510 FEL 12-17N-9W BY DATE Bunk Reserve House Pits Drilling Mus Pits Well \oplus Cat Pipe Rucks WELK Parking Area

RAISTON PERO

Burn Pit