NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-162 Supersedes C-128 Effective 4-1-65

All distances must be from the outer boundaries of the Section Operator Well 146. TENNECO OIL COMPANY CASE Unit Letter Township 31N 11W San Juan Actual Footage Location of Well: North 1070 feet from the feet from the Ground Level Elev. Producing Formation Dedicated Acreage: 6279 Dakota Basin Dakota 320 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 ___ 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. 10701 Coordinator Company Tenneco Oil Company Sec 21 1979 TENNECO I hereby certify that the well location shown on this plat was plotted from field under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed October Fred Certificat 3950 1980 2310 1000 600

CASE "A" 2

1. Existing Roads

- A. Proposed Well Site Location:
 The proposed well site was surveyed and staked by a registered land surveyor and is located 950' FNL, 1070' FWL, Sec. 17, T3lN, RllW, San Juan County, New Mexico. (See Exhibit I, Surveyor's Plat).
- B. Planned Access Route: The planned access route goes from Aztec, NM, north on Hwy 173 approx 2 miles to the junction of an improved dirt road which goes to the NE, turn right on this road and go approx. ½ mile in northeasterly direction to a crossroad, turn left and head northwesterly on this dirt road for approx. 1½ miles to fork in the
- C. Access Road Labelled: '/road, take the right fork and continue on this /road for another 3/4 mile to a fork, take left fork and proceed Color Code: Red Improved Surface /approx. 1.5 mile to junction o Blue New Access Road dirt road which leads to east. /Turn on this dirt road for approx. 1/3mile past an existing El Paso
- D. Not applicable the proposed well is a development well/well site an /on into the proposed location. (See Exhibit II).
- E. The proposed well is a development well. See Exhibit II 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 twenty feet.
- B. Maximum Grades:
 The maximum grades will be six percent.
- 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: No culverts or major cuts and fills will be required on the road.
- F. Surfacing Material:
 Native soil has been wetted, bladed and compacted to make the road surface, which is existing.

2. Planned Access Roads (Cont'd)

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

3. Location of Existing Wells

The proposed well is a development well. Exhibit IIIshows existing wells within a one mile radius.

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

4. Location of Existing and/or Proposed Facilities

Existing facilities within one mile owned or controlled Α. by Lessee/Operator:

Tank batteries - n/a.

(2) Production facilities - Exhibit III.

- Oil Gathering Lines n/a.
- (4)Gas Gathering Lines - | n/a.
- (5) Injection Lines -/ Disposal Lines -/ n/a.
- n/a.
- New facilities in the event of production: В.
 - (1) Facilities will be within the dimensions of the drill pad.
 - (2) Dimensions are shown on Exhibit IV.
 - (3) Construction Materials/Methods: Construction materials will be native to the site. Facilities will consist of a well pad.
 - Protection of Wildlife/Livestock: (4) Facilities will be fenced as needed.

- 4. Location of Existing and/or Proposed : cil : 25 (Cont'd)
 - B. New facilities in the event of rode fon: (cont'd)
 - (1) New facilities will consist of sellhead, tank, an production unit.

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- C. Rehabilitation of Disturbed Are s:

 Fellowing the completion of continued on, those areas
 required for continued production will be graded to provide drainage and minimize eros on. Hose areas unnecessed for use will be graded to blend with arrounding topographs per BLM recommendations.
- 5. Location and Type of Water Supply
 - A. Location and type of water supply:
 Water will be hauled from a printle too
 - B. Water Transportation System: Water trucks will be used.
 - C. Water wells:
- 6. Source of Construction Materials
 - A. Materials:

 Construction materials will consist soil native to the site. Any topsoil, if present, /ill stripped and stockpiled as needed.
 - B. Land Ownership;
 The planned site and access road is a federal land administered by the Bureau of Land Management.
 - C. Ma erials Foreign to the Site: \mathbb{N}/\mathbb{N} .
 - D. Ac ess Roads:
 No additional roads will be required
- 7. Methods for Handling Waste Disposal
 - A. Custings: Custings will be contained in the reserve pit.
 - B. Dr lling Fluids: Dr lling fluids will be retained in the reserve pit.
 - C. Produced Fluids:

 Produced fluids, including produced we are will be collected in the reserve pit. Any small arount 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. <u>Ancillary Facilities</u>

None required.

9. Well Site Layout

- A. See Exhibit IV.
- 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 surface description of the proposed well site location is relatively flat. There are numerous cedar trees on the location and sagebrush throughout. The location is located on a small mesa.
- 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:
 - 1. Water:
 - There are no reservoirs or streams in the immediate area.
 - Occupied Dwellings: There are no occupied dwellings or buildings in the area.
 - 3. Sites: An archeological reconnissance has been performed for this location and clearance has been granted.

12. Operator's Field Representative

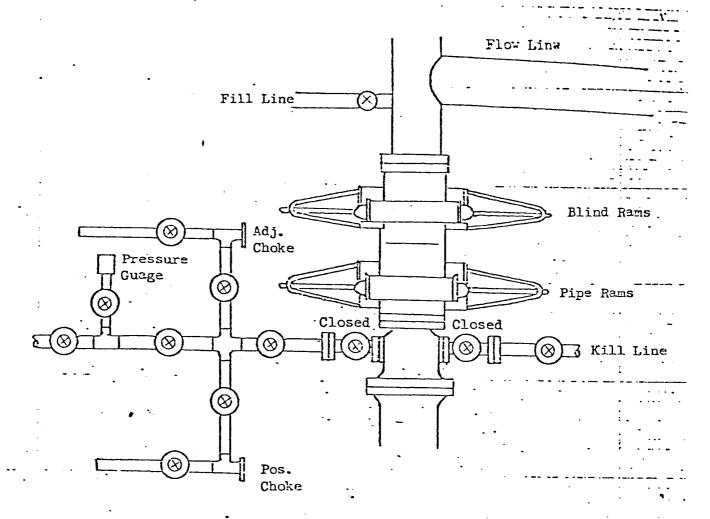
Donald S. Barnes Division Drilling Engineer Tenneco Oil Company 720 South Colorado Blvd. Penthouse Denver, CO 80222 (303) 758-7130 Ext. 212

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 011 Company and its contractors and subcontractos will conform to this plan.

Date: 3-23-79

Division Production Manager



All valves 2"

All BOPs, flanges, spools, valves, & lines must be series 900 or 3000 psi working press.

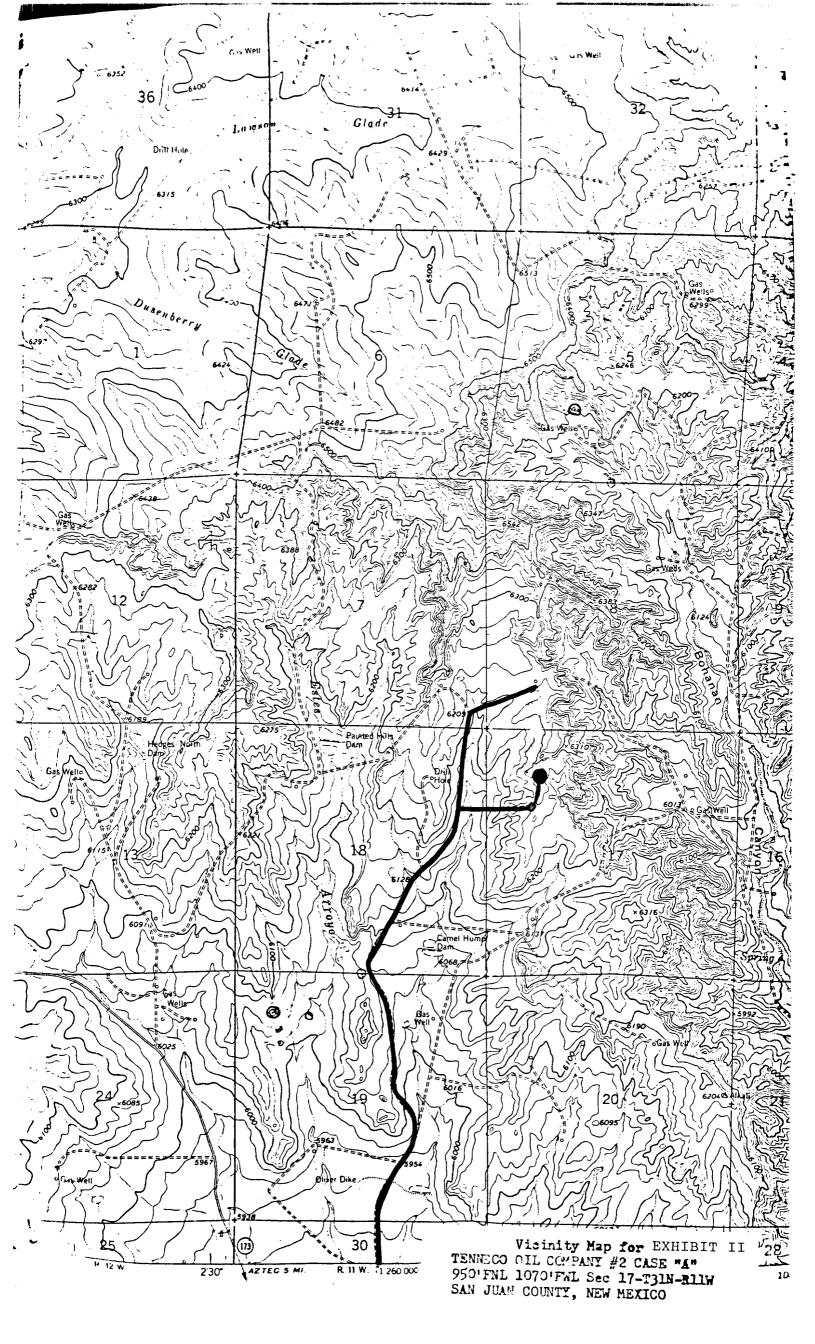
Choke manifold must be at ground level and extended out from under substructure.

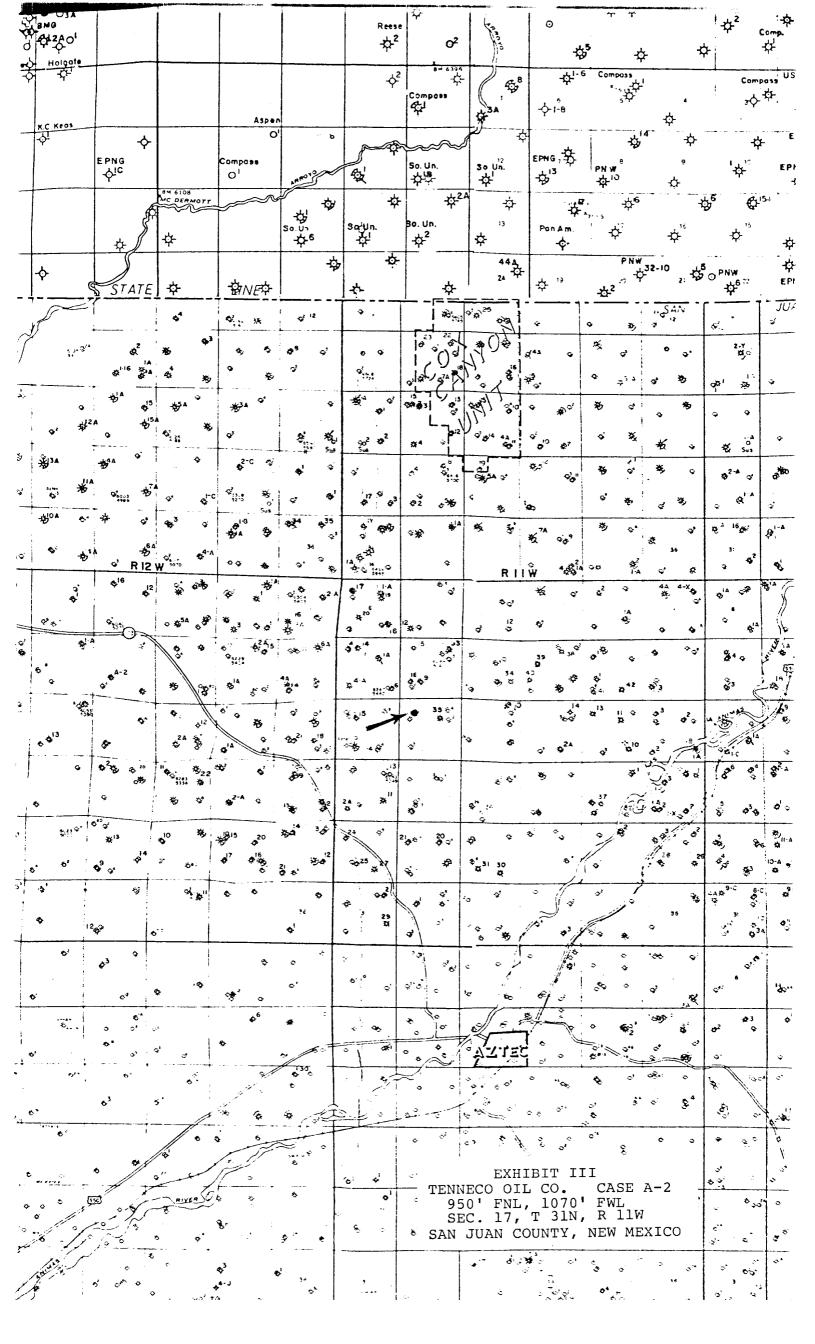
TENNECO OIL COMPANY

REQUIRED MINIMUM BLOWOUT PREVENTOR

HOOKUP

Denver, Colorado





TENNECO OIL COMPANY

CALCULATION SHEET

