

SURFACE USE PLAN

Florance # 11 A

Existing Roads:

- a. See surveyors plat for actual staking.
- b. The well site is located approximately 1 mile SW of Archuleta, New Mexico.
- c. See Exhibit "B" for access roads.
- d. Not applicable.
- e. See Exhibit "B" for one mile radius road map.
- f. Plan to construct 1980' of 14' wide road to well site. We will construct water bars where necessary, and slope road through all arroyos.

Planned Access Roads:

- a. See Exhibit "B".
- b. Width=14'
- c. No turnouts.
- d. Drainage=Water bars will be constructed where required to prevent erosion.
- e. Road will be cut into any arroyos and sloped across the bottom to maintain normal drainage. Cuts or fills will be kept to a minimum.
- f. No gates or cattle guards are needed.
- g. Road is center line flagged.

Location of Existing Wells.

- a. See Exhibits "B" and "C" for well locations.

Location of Existing and/or Proposed Facilities.

- a. See Exhibit "B" and "C". Lines are buried.
- b. This is expected to be a dry gas well. If condensate is encountered, a 300 bbl steel tank painted green to match the surrounding area, will be set on a gravel base near the well as shown on Exhibit "A". A dirt bank will be erected around the tank to contain any spills. The possible spill area will be fenced.
- c. If well is productive, pits will be backfilled, leveled and reseeded as soon as practical to original contours.

Location and type of Water Supply

- a. Water will be hauled from the San Juan River, or El Paso water wells.
- b. Trucks will be used to haul water.
- c. No water well will be drilled.

Source of Construction Materials

- a. No construction materials will be used. Surface soil will be stockpiled.
- b. We will not be getting any construction materials from Federal or Indian lands.
- c. No construction materials will be used.
- d. No access roads for construction materials will be needed.

Methods for Handling Waste Disposal

- a. Cuttings will be disposed of in the reserve pit.
- b&c. Drilling fluids and produced water will be collected in the reserve pit and hauled away to an approved disposal system or a separate disposal application will be submitted. Any produced oil will be run to the tank (see 4:8)
- d&e. All detrimental waste will be hauled away, burned or buried with a minimum cover of 24" of dirt.
- f. After the rig moves out, See 4:C. If unproductive, a dry hole marker will be installed and all pits will be filled, leveled and entire location reseeded to your specifications. Roads will be leveled and reseeded.

Ancillary Facilities

- a. No camps or airstrips will be needed in the drilling of this well.

Well Site Layout.

- a. See Exhibit "A".
- b. Pits will be unlined.

Plans for Restoration of Surface.

- a. See 4:C and 7:A-F
- b. BLM SEEDING REQUIREMENTS IN THE FARMINGTON RESOURCE AREA

We will use seed mixture (XXX, 2). A disc-type drill set for 8"-10" rows with two boxes for various seed sizes will be used. The seed will be drilled on the contour not less than $\frac{1}{2}$ " deep or more than 1" deep, followed by a drag, packer, or roller to compact and cover the seed adequately. Where slopes are too steep for contour drilling, a "cyclone" hand seeder or similar broadcast seeder will be used. Seed will then be covered by whatever means are practical. The following species in lbs. pure-live-seed per acre will be used:

SEED MIXTURE 1	SPECIES	SEED MIXTURE 2
2- $\frac{1}{2}$ lbs.	Smooth Brome (Bromus inermis)	
1 lb.	Nomad Alfalfa (Medicago sativa)	
$\frac{1}{2}$ lb.	Fourwing Saltbush (dewinged) (Atriplex conescens)	$\frac{1}{2}$ lb.
2- $\frac{1}{2}$ lbs.	Crested Wheatgrass (Agropyron desertorum)	3- $\frac{1}{4}$ lbs.
	Sand Dropseed (Sporobolus cryptandrus)	$\frac{1}{2}$ lb.
	Winterfat (Eurotia lanata)	$\frac{1}{2}$ lb.
	Alkali Sacaton (Sporobolus airoides)	$\frac{1}{2}$ lb.

- c. Prior to rig release, pits will be fenced and so maintained until clean up.
- d. If any oil is on the pit, it will be removed or flagged.
- e. Rehabilitation operations will be done during the best weather conditions to promote regrowth in area. All seeding will take place between July 1 and Sept. 15.

11. Other information.

- a. Site is located in low rolling hills with mostly sand for soil. The vegetation is predominately sagebrush, grass, and a few Junipers.
- b. The surface is used for grazing.
- c. No open water, occupied dwellings, archaeological, historical or cultural sites will be disturbed by this location. An archeological report has already been sent to your office.

12- Operator's Representative.

- a. Field personnel who can be contacted concerning compliance of this Surface Use Plan are as follows: Darrell Brown, 1860 Lincoln, Suite 1200, Denver, Colorado 80295
Office=303-292-9920 ext. 254 Home=303-771-8297

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 sub-contractors will conform to this plan.

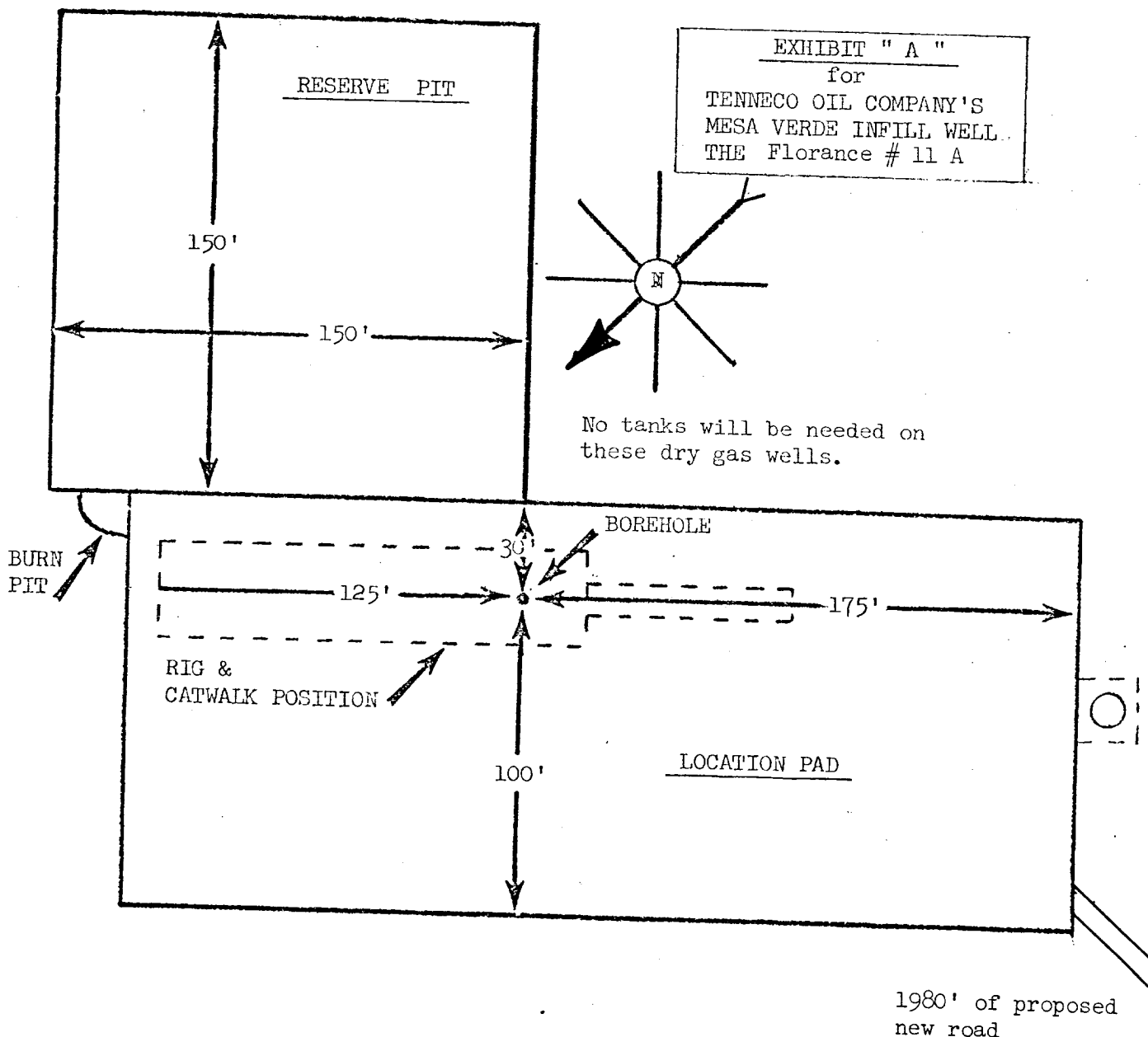
APR 15 1977

Date

Darrell Brown
D.E. Brown

Division Drilling Engineer

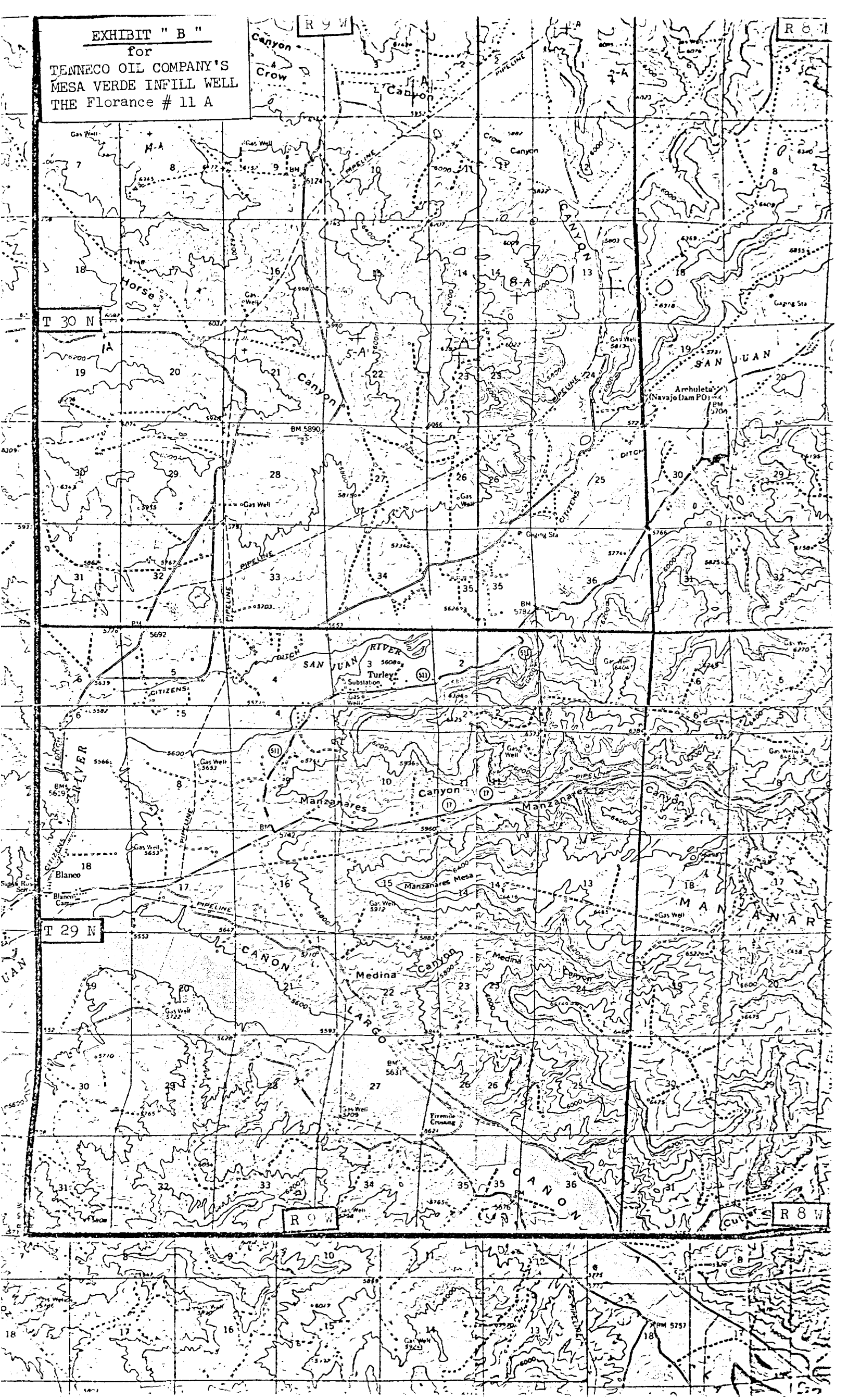
Wellsite is located on a small rise. A 6' cut will be made in the middle of the site and leveled out to the sides of the site.



SCALE: 1" = 50'

EXHIBIT " B "

for
TENNECO OIL COMPANY'S
MESA VERDE INFILL WELL
THE Florence # 11 A



R 9 W

R 8 W

EXHIBIT " C "

FOR

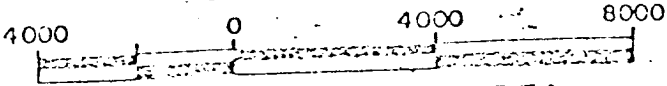
TENNOCO OIL COMPANY'S INFILL WELL
THE

GATHERING SYSTEMS

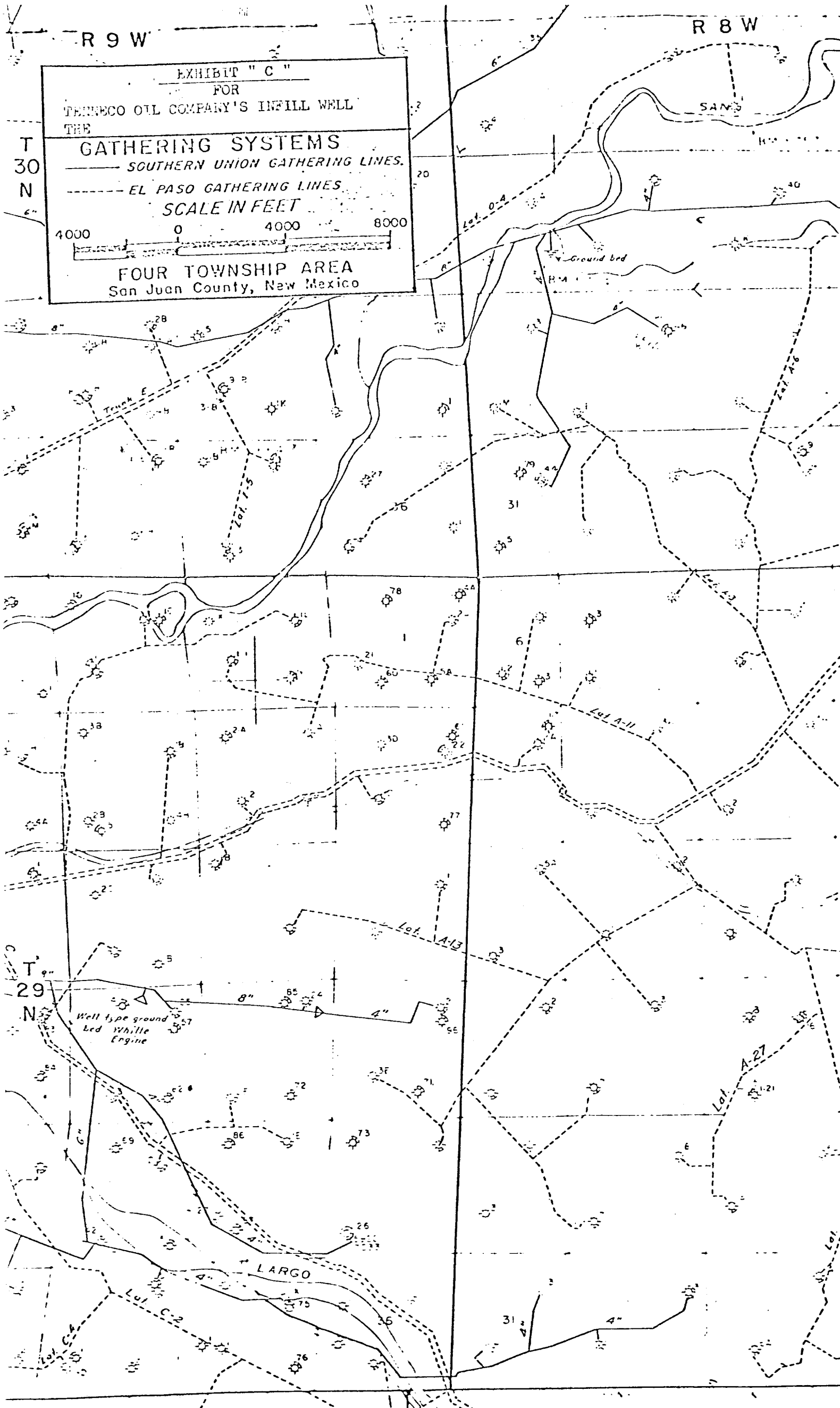
SOUTHERN UNION GATHERING LINES.

EL PASO GATHERING LINES.

SCALE IN FEET



FOUR TOWNSHIP AREA
San Juan County, New Mexico



Plata

County

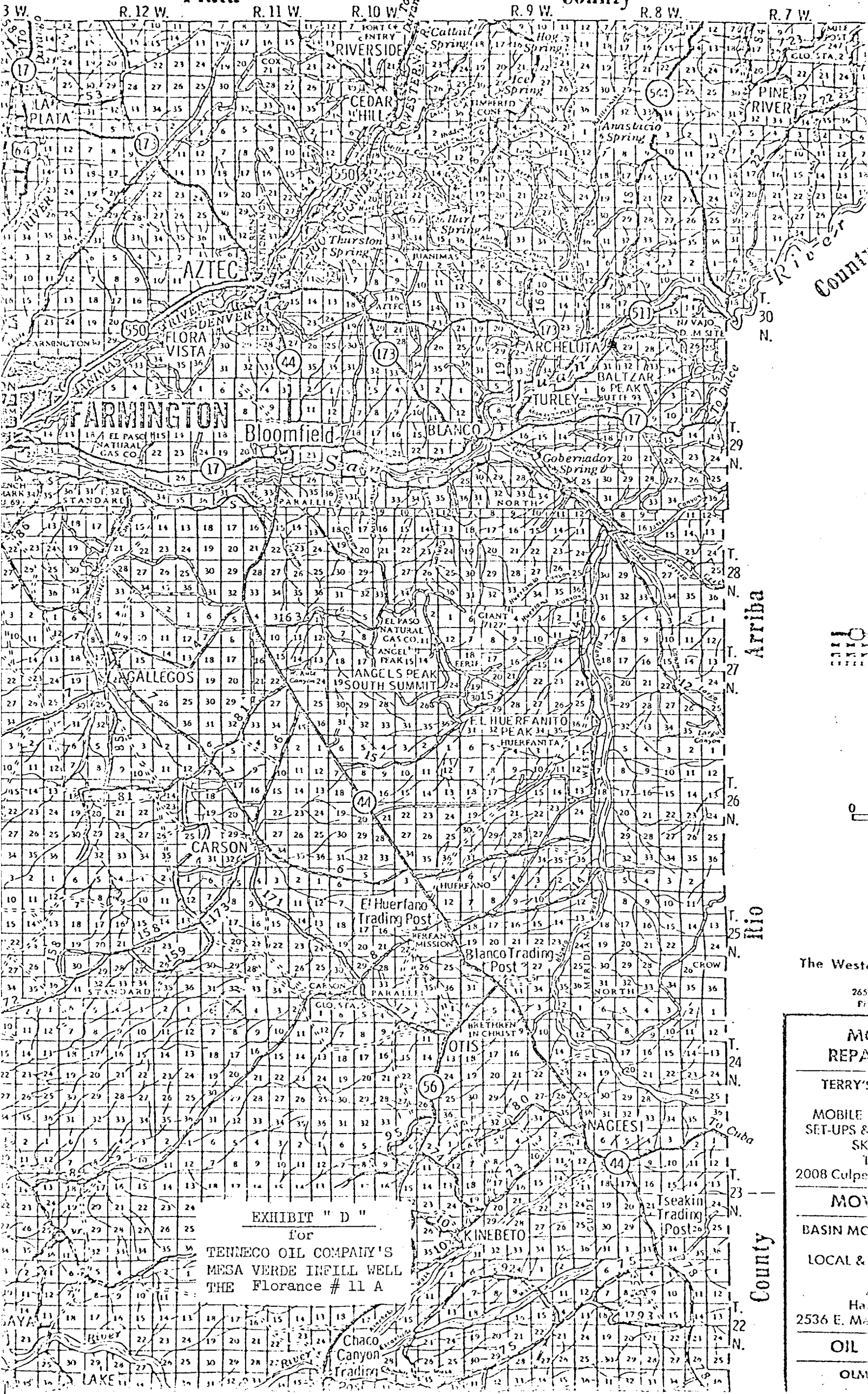


EXHIBIT " D " for TENNECO OIL COMPANY'S MESA VERDE INFILL WELL THE Florence # 11 A

Arriba
Rio
County

The West.
265 Ft.
MO
REPA
TERRY'S
MOBILE
SET-UPS &
SK
2008 Culpe
MO
BASIN MC
LOCAL &
Ha
2536 E. Ma
OIL
OLM



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

To All Operators:

Effective July 1, 1976, to comply with 42 CFR 6, all operators drilling upon federally supervised lands shall provide the following information or on Form US-331C, "Application for Permit to Drill", Deeper, or Plug Back:

1. The geologic name of the surface formation.
2. The estimated tops of important geologic markers.
3. The estimated depths at which anticipated water, oil, gas, or other mineral-bearing formations are expected to be encountered.
4. The proposed casing program, including the size, grade, and weight-per-foot of each string and whether new or used.
5. The lessee's or operator's minimum specifications for pressure control equipment which is to be used, a schematic diagram thereof showing sizes, pressure ratings (or API series), and the testing procedures and testing frequency.
6. The type and characteristics of the proposed circulating medium or mediums to be employed for rotary drilling and the quantities and types of mud and weighting material to be maintained.
7. The auxiliary equipment to be used, such as (1) Kelly cocks, (2) floats at the bit, (3) monitoring equipment on the mud system, (4) a sub on the floor with a full opening valve to be seabed into drill pipe when the Kelly is not in the string.
8. The tests, logging, and coring programs to be followed with provision made for required flexibility.
9. Any anticipated abnormal pressures or temperatures expected to be encountered or potential hazards such as hydrogen sulfide gas, along with plans for mitigating such hazards.
10. The anticipated starting date and duration of the operations.

Northern Rocky Mountain Area
Checksheet for 42-CR-6

Wellpoint Requirements to Accompany APD

1. Existing roads - a legible map showing:
 - A. Proposed well site as staked. (Actual staking should include two each 200-foot directional reference stakes.)
 - B. Route and distance from nearest town or localable reference point to where well access route leaves main road.
 - C. Access road(s) to location color-coded or labeled.
 - D. If exploratory well, all existing roads within a 3-mile radius (including type of surface, conditions, etc.).
 - E. If development well, all existing roads within a 1-mile radius of well site.
 - F. Plans for improvement and/or maintenance of existing roads.

2. Planned Access Roads

- Map showing all necessary access roads to be constructed or reconstructed, showing:
- (1) Maximum grades
 - (2) Turnouts
 - (3) Drainage design
 - (4) Location and size of culverts and brief description of any major cuts and fills
 - (5) Surfacing material
 - (6) Retaining ditches, catchbasins, or fence cuts
 - (7) Direction of travel and where to be center-line flagged

3. Location of Existing Wells

Two-mile radius map if exploratory, or 1-mile radius map if development well, showing and identifying existing:

- (1) Water wells
- (2) Abandoned wells
- (3) Temporarily abandoned wells
- (4) Disposal wells
- (5) Drilling wells
- (6) Producing wells
- (7) Shut-in wells
- (8) Injection wells
- (9) Monitoring or observation wells for other resources

4. Location of Existing and/or Proposed Facilities

- A. Within 1-mile radius of location show the following existing facilities owned or controlled by lessee/operator:
 - (1) Tank batteries
 - (2) Production facilities
 - (3) Oil gathering lines
 - (4) Gas gathering lines
 - (5) Injection lines
 - (6) Disposal lines
- B. If new facilities are contemplated, in the event of production, show:
 - (1) Proposed location and attendant lines by flagging if off of well pad
 - (2) Dimensions of facilities
 - (3) Construction methods and materials
 - (4) Protective measures and devices to protect livestock and wildlife

5. Location and Type of Water Supply

- A. Show location and type of water supply either on map or by written description.
- B. State method of transporting water, and show any roads or pipelines needed.
- C. If water well is to be drilled on lease, so state. (No APD for water well necessary, however, unless it will penetrate potential hydrocarbon horizons.)
- D. Show any needed access roads crossing Federal or Indian lands under item 2.

6. Source of Construction Materials

- A. Show information either on map or by written description.
- B. Identify if from Federal or Indian land.
- C. Describe where materials, such as sand, gravel, stone, and soil material, are to be obtained and used.
- D. Show any needed access roads crossing Federal or Indian lands under item 2.

7. Methods for Handling Waste Disposal

- Describe methods and location of proposed containment and disposal of waste material, including:
- (1) Cuttings
 - (2) Drilling fluids
 - (3) Produced fluids (oil, water)
 - (4) Sewage
 - (5) Garbage and other waste material (Trash pits should be fenced with small mesh wire to prevent wind scattering trash before being burned or buried.)
 - (6) Statement regarding proper cleanup of well site area when rig moves out

8. Ancillary Facilities

Identify all proposed camps and airstrips on a map as to their location, area required, and construction methods. (Camp center and airstrip center lines to be staked on the ground.)

9. A plat (not less than 1" = 50') showing:
 - (1) Cross sections of drill pad with cuts and fills
 - (2) Location of mud tanks, reserve, burn and trash pits, pipe racks, living facilities, and soil material stockpiles
 - (3) Rig orientation, parking areas, and access roads
 - (4) Statement as to whether pits are to be lined or unlined. (Approval as used in this section means field approval of location. All necessary staking of facilities may be done at time of field inspection. A registered surveyor is not mandatory for such operations.)

10. Plans for Restoration of Surface

- State restoration program upon completion of operations, including:
- (1) Backfilling, leveling, contouring, and waste disposal;
 - (2) Revegetation of spoils materials as needed (normally per BLM recommendations)
 - (3) Prior to rig release, pits will be fenced and so maintained until cleanup
 - (4) If oil on pit, remove oil or install overhead flagging
 - (5) Timetable for commencement and completion of rehabilitation operations

11. Other Information

- General description of:
- (1) Topography, soil characteristics, geologic features, flora and fauna
 - (2) Other surface-use activities and surface ownership of all involved lands
 - (3) Proximity of water, occupied dwellings, archaeological, historical or cultural sites

12. Lessee's or operator's representative.

Include the name, address, and phone number of the lessee's or operator's field representative who is responsible for assuring compliance with the approved surface use and operations plan.

13. Certification.

The following statement is to be incorporated in the plan and must be signed by the lessee's or operator's field representative who is identified in item No. 12 of the plan:

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 _____ and its contractors and sub-contractors will conform to this plan.

Date _____ Name and Title _____