El Paso Natural Gas Products Company
Case No. 1596
Exhibit No. 13
Date February 18, 1959

HORSESHOE GALLUP FIELD
SAN JUAN COUNTY, NEW MEXICO
INDIVIDUAL PRODUCTION TESTS OF SANDS "A" AND "B"

Operator / Lease	Well No.	Location 1/4 1/4 Sec.-Twn-Rng	Swab Test Sand "A" BOPD	Swab Test Sand "B" BOPD	Pump Test Sand "A" BOPD	Pump Test Sand "A" GOR	Pump Test Sand "B" BOPD	Pump Test Sand "B" GOR	Remarks
El Paso Natural Gas Products Co.									
Horseshoe Canyon	4	SE SW 3-30N-16W			21	TSTM	74	125	Neither sand sandoil fractured.
Horseshoe Canyon	6	NW NW 10-30N-16W			80	175	119	81	Both sands sandoil fractured.
Horseshoe Canyon	8	NE SW 4-30N-16W			109	193	89	79	Both sands sandoil fractured.
Horseshoe Canyon	2-B	NE NW 4-30N-16W		100	50				Neither sand sandoil fractured.
Horseshoe Ute	4	NE SW 33-31N-16W	203	264					Both sands sandoil fractured.
Atlantic Refining Company									
Navajo	1	SE SE 32-31N-16W	512	598					Both sands sandoil fractured.
Pan American Petroleum Corp.									
Aldlin	1-A	NW NE 10-30N-16W			108		96		Both sands sandoil fractured.

DUAL COMPLETION EQUIPMENT
HORSESHOE GALLUP OIL POOL
San Juan County, New Mexico

Subsurface Equipment

1. 5-1/2", 15.50#, J-55 production casing is set through both producing zones and cemented. Cement is circulated across both zones by the single stage method.

2. 1-1/2", 2.75#, J-55, non-upset tubing will be used to produce the lower zone. A tension type retrievable production packer will be run and set on this tubing string. This will maintain separation between the two zones. A parallel tubing string anchor will be run in this tubing string to anchor the tubing string for the top zone.

3. 1-1/2", 2.75#, J-55 non-upset tubing will be used to produce the top zone. This tubing string will be latched into the parallel tubing string anchor.

4. The pumps for each zone will be a 1-1/4"common working barrel tubing pump. The pumps will be activated by separate rod strings.

Tubing Head

1. The tubing head will suspend the tubing strings separately.

Pumping Unit

1. Existing pumping units are of sufficient rating to pump both zones at the same time.

2. The pumping of both zones at the same time with the same pumping unit can be accomplished by using a dual horse's head.

Metering of Oil

1. Each zone will produce into a separator. The separators will consist of a single unit with a divider between the separator chambers.

2. Oil from the separator will be metered by positive displacement meters. Inidividual meters will be used for each zone.

3. After oil is metered it will be commingled into the existing flow line to the existing battery.

4. By metering the oil in this manner it will not be necessary to construct storage facilities and separate flow lines for each zone.