Case Number 3206 Exhibit Number March 8, 1967

AREA DRAINAGE COMPUTED) FROM PROJECT	ED RECOVERY	
HIGH PLAINS HIGH PLAI	Recovery) UNIT WELL NO. INS PENN POOL	1 OIL CONS	EXAMINER NUTTER ERVATION COMMISSION EXHIBIT NO
Reservoir Volume Calculations		•	
Porosity (Sonic Log) Water Saturation (Calculated) Net Effective Pay Recovery Factor (Assumed) Formation Volume Factor Ultimate Recovery (Projected i	from Pressure ılative Produc	etion) 2	10 % 32 % 25 feet 20 % 1.653 37,000 barrels
Oil in Place, Barrels per Acre-Foo	ot_		
(7758)(.10)(1.00-0.32)(1/1.653	3) =		319 bbls/ac-ft
Recoverable Oil, bbls per Acre-Foo	ot		
(319) x (0.20)	=		64 bbls/ac-ft
Oil in Place, Barrels per Acre			
(319) x (25)	=		7,980 bbls/acre
Recoverable Oil, Barrels per Acre			
(7980) x (0.20)	=		1,600 bbls/acre
	40 Acres	80 Acres	160 Acres
Oil in Place, Barrels	319,000	639,000	1,280,000
Recoverable Oil, Barrels	64,000	128,000	256,000

115

230

460

Actual Area Drained from the Subject Well

$$X = \frac{237,000}{1,600} = 148 \text{ Acres}$$

Recoverable Gas, MMCF

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ECONOMIC EVALUATION

(20% Recovery)

HIGH PLAINS UNIT WELL NO. 1
HIGH PLAINS PENN POOL
(Revised)

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OIL CONSERVATION COMMISSION

EXHIBIT NO. _____

CASE NO. 3026

BASIC DA'L'A

1. Oil Value

2. Oil Purchaser

3. Gas Value

4. Gas Purchaser

5. Net Interest

6. Production Taxes

7. Lifting Costs

8. Per Well Investment Costs

\$3.06 per barrel less \$0.14 per barrel trucking

Permian Corporation

\$0.12 per MCF

Atlantic Refining Company

87.5% 6.1%

\$0.20 per barrel

\$145,000 for flowing well

20,000 for artificial lift

\$165,000 Total Costs

ECONOMICS FOR ONE WELL

			Well Spacing	
		40 Acre	*80 Acre	**160 Acre
1.	Recoverable Oil, Barrels	64,000	128,000	237,000
2.	Recoverable Gas, MMCF	115	230	426
3.	Oil Revenue	\$187,000	\$374,000	\$692 , 000
4.	Gas Revenue	13,800	27,600	51 , 100
5.	Total Revenue	200,800	401,600	743,100
6.	Net Revenue after Royalty	ŕ	,	·
	and Taxes	164,500	330,000	610,000
7.	Operating Costs	12,800	25,600	47,400
8.	Net Income	151,700	304,400	562 , 600
9.	Investment	165,000	165,000	165,000
10.	Profit (-Loss)	(-13, 300)	139,400	397,600
11.	Profit-to-Investment Ratio	, -	0.84 to 1	2.40 to 1

^{*} The High Plains Unit No. 1 well has already drained more than is recoverable under eighty acre spacing.

^{**} Recoveries adjusted to anticipated recoveries as determined by production history.