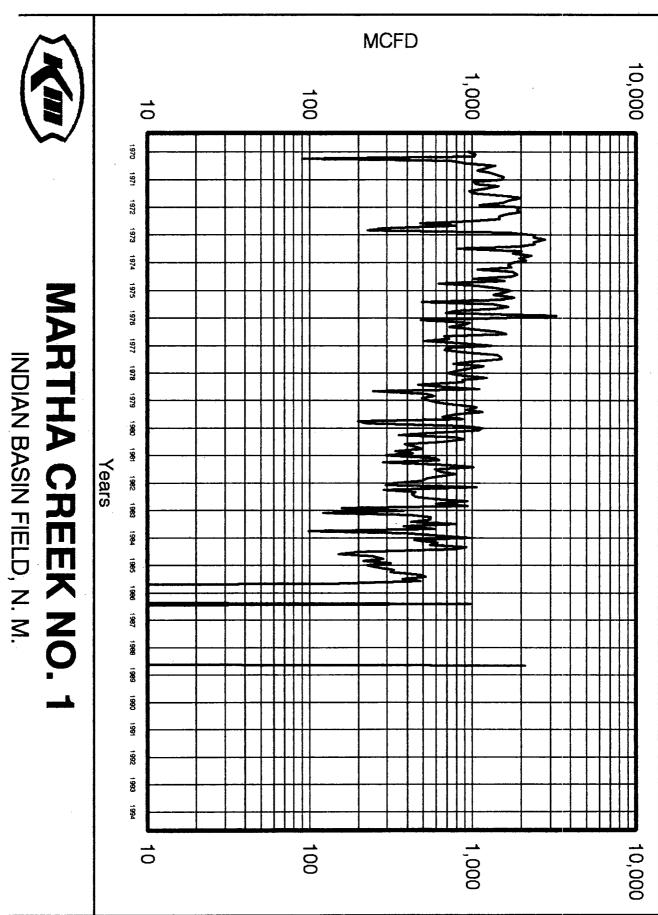
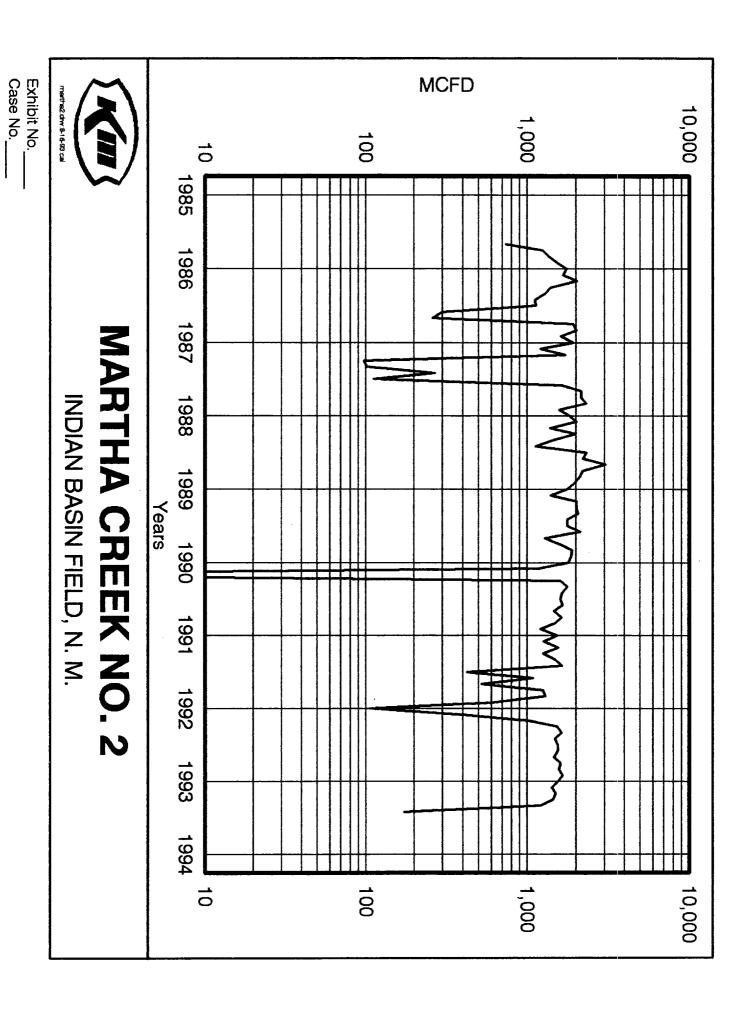
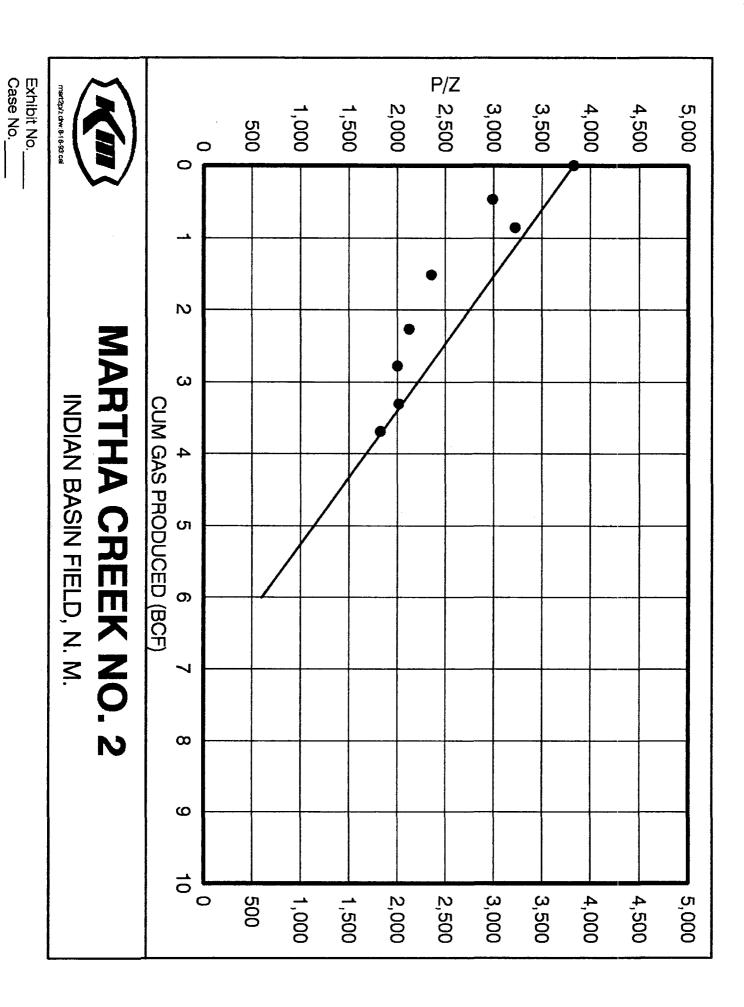
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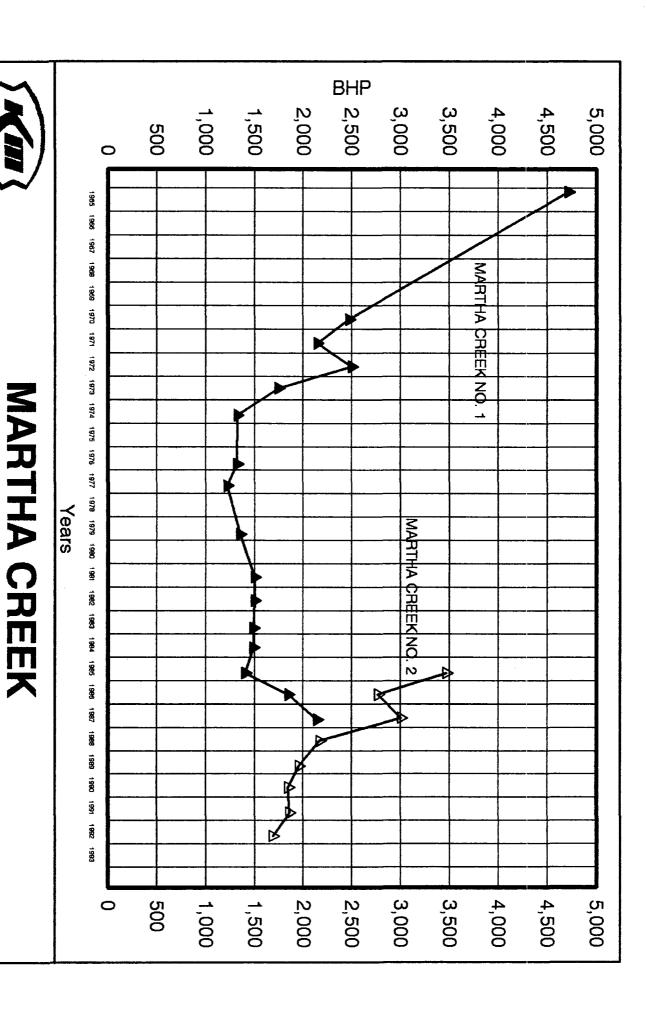


Exhibit No.\_\_\_

INDIAN BASIN FIELD, N. M.

### MARTHA CREEK UNIT INDIAN BASIN (MORROW) FIELD

#### **GAS-IN-PLACE CALCULATION**

BHP, psia	4717
Z	0.996
BHT, F	194

Bgi = [(.02829)(Z)(BHT, R)/(BHP)]

Bgi = [(.02829)(0.996)(194+460)/(4717)] = 0.00391 RCF/SCF

# GAS-IN-PLACE = [(43560)(AC-FT)(POROSITY)(1-Sw)]/(Bgi)

SAND	AC-FT	POROSITY	Sw	GIP, BCF
UPPER MORROW MORROW "A" MORROW "B" MORROW "C" LOWER MORROW	6997 6698 5653 4044 9546	0.115 0.075 0.155 0.07 0.07	0.46 0.165 0.4 0.48 0.26	4.8 4.7 5.9 1.6 5.5
TOTAL				22.5

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## MARTHA CREEK UNIT INDIAN BASIN (MORROW) FIELD

### **REMAINING GAS CALCULATION**

#### **GAS-IN-PLACE:**

ORIGINAL GAS-IN-PLACE 22.5 BCF

RECOVERY FACTOR 87%

RECOVERABLE GAS 19.6 BCF

#### **EXISITING WELL RECOVERY:**

MARTHA CREEK #1 ULTIMATE RECOVERY 8.0 BCF

MARTHA CREEK #2 ULTIMATE RECOVERY 6.0 BCF

#### **REMAINING GAS:**

REMAINING RECOVERABLE GAS = 19.6 - 8.0 - 6.0 = 5.6 BCF

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# INDIAN BASIN (MORROW) FIELD ALLOWABLE REQUEST

#### MARTHA CREEK UNIT:

MARTHA CRE	EK #2 ALLOWABLE REQUEST	36,750 MCF/MO
MARTHA CRE	EK #3 ALLOWABLE REQUEST	60,000 MCF/MO
MARTHA CRE	EK UNIT ALLOWABLE REQUEST	96,750 MCF/MO
	TOTAL POOL ACREAGE FACTOR	2.08
	MARTHA CREEK ACREAGE FACTOR	1.08
	MARTHA CREEK, % OF TOTAL POOL	51.923%

#### INDIAN BASIN POOL:

NON-MARGINAL WELL ALLOWABLE REQUIRED (96,750/0.51923)

MARGINAL WELL ALLOWABLE 41,468 MCF/MO (BASED ON PREVIOUS PERIOD)

TOTAL POOL ALLOWABLE 227,802 MCF/MO

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