ORIGINAL OIL IN PLACE CALCULATIONS

CROSSRO	ADS, SOUTH FIELD				
DATA:	PRODUCTIVE ACREAGE (A) = AVERAGE POROSITY (Ø) = AVG. WATER SATURATION (SW) NET PAY THICKNESS (H) = OIL FORMATION VOLUME FACTOR		600 ACRES 10 % 25 % 25 FT 1.27 RB/STB		
	OOIP = (7758*H*A*Ø	*(1-Sw))/Bo			
	OOIP = 6,872,2	44 STB			
	TOTAL FIELD RECOVERY =	3,051,000 STB			
	RECOVERY FACTOR =	44.40%			
BOUGH F					
DATA:	PRODUCTIVE ACREAGE (A) = AVERAGE POROSITY (Ø) = AVG. WATER SATURATION (Sw) NET PAY THICKNESS (H) = OIL FORMATION VOLUME FACTOR		300 ACRES 6 % 26 % 118 FT 1.25 RB/STB		
	OOIP = $(7758*H*A*\mathscr{O}*(1-Sw))/Bo$				
	OOIP = 9,754,9	71 STB			
	TOTAL FIELD RECOVERY =	3,758,000 STB			
	RECOVERY FACTOR =	38.52%			
		# 150 h	• • • • •		

MARALO 6

ORIGINAL OIL IN PLACE CALCULATIONS

BARNES AREA FIELD

DATA:

PRODUCTIVE ACREAGE (A) =	288	ACRES
AVERAGE POROSITY $(\emptyset) =$	6	8
AVG. WATER SATURATION (Sw) =	25	%
NET PAY THICKNESS (H) =	28	\mathbf{FT}
OIL FORMATION VOLUME FACTOR (Bo) =	1.25	RB/STB

OOIP = (7758*H*A*Ø*(1-Sw))/Bo

OOIP = 2,252,178 STB

EST. ULT. FIELD RECOVERY = 945,915 STB

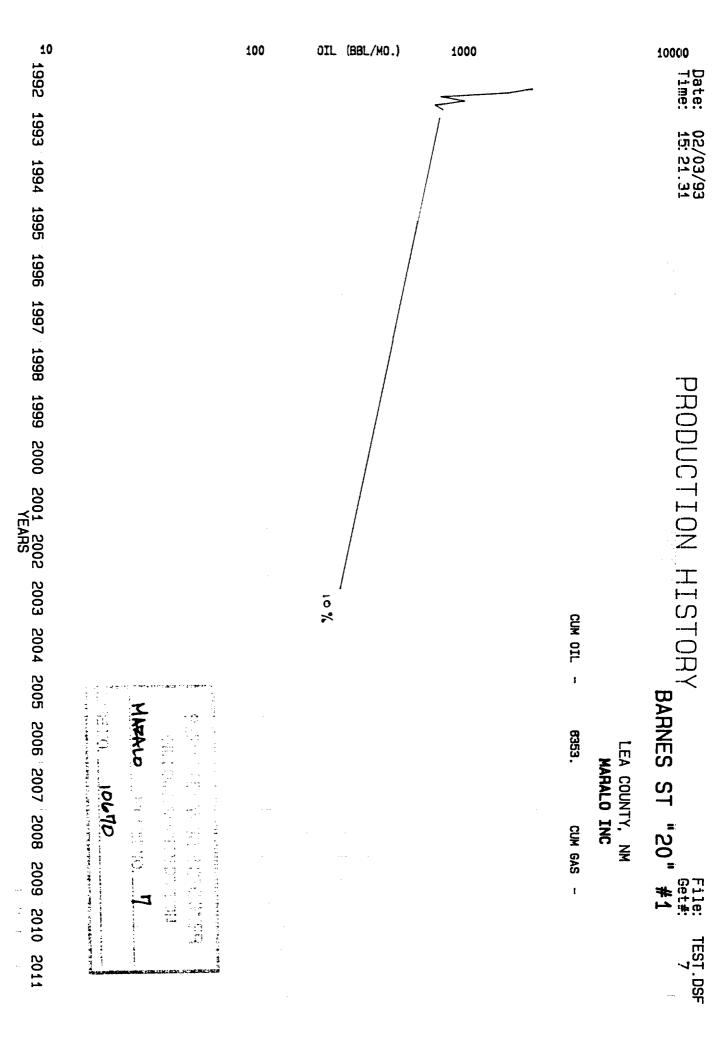
RECOVERY FACTOR = 42.00%

ORIGINAL OIL IN PLACE CALCULATIONS

BARNES "20" #1 PRORATION UNIT					
DATA:	PRODUCTIVE ACREAGE (A) = AVERAGE POROSITY (Ø) = AVG. WATER SATURATION (SW) = NET PAY THICKNESS (H) = OIL FORMATION VOLUME FACTOR		40 ACRES 6 % 25 % 10 FT 1.25 RB/STB		
OOIP = $(7758*H*A*Ø*(1-Sw))/Bo$					
OOIP = 111,715 STB					
	EST. ULT. RECOVERY =	46,920 STB			
	RECOVERY FACTOR =	42.00%			
BARNES "20" #1 PRORATION UNIT					
DATA:	PRODUCTIVE ACREAGE (A) = AVERAGE POROSITY (Ø) = AVG. WATER SATURATION (SW) = NET PAY THICKNESS (H) = OIL FORMATION VOLUME FACTOR		80 ACRES 6 % 25 % 13 FT 1.25 RB/STB		
OOIP = $(7758*H*A*Ø*(1-Sw))/Bo$					
OOIP = 290,460 STB					
	EST. ULT. RECOVERY =	121,993 STB			

42.00%

RECOVERY FACTOR =



DECLINE CURVE ANALYSIS BARNES "20" #1

REMAINING RECOVERY(N) = (INITIAL RATE - FINAL RATE)365/-LN(1-AY)

WHERE AY IS THE EXPONENTIAL DECLINE RATE

N = (28 - 5)365/-LN(1-.10)

N = 79,679 STB

ULTIMATE RECOVERY = 79,679 + 6,353

ULTIMATE RECOVERY = 86,032 STB