ORIGINAL OIL IN PLACE CALCULATIONS

CROSSROADS, SOUTH FIELD

DATA:

PRODUCTIVE ACREAGE $(A) =$	600 ACRES
AVERAGE POROSITY $(\emptyset) =$	10 %
AVG. WATER SATURATION (Sw) =	25 %
NET PAY THICKNESS $(H) =$	25 FT
OIL FORMATION VOLUME FACTOR (Bo) =	1.27 RB/STB

 $OOIP = (7758 * H * A * \emptyset * (1 - Sw)) / Bo$

OOIP	=	6,872,244 STB
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TOTAL FIELD RECOVERY =	3,051,000 STB
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RECOVERY FACTOR =	44.40%

BOUGH FIELD

DATA:		
	PRODUCTIVE ACREAGE $(A) =$	300 ACRES
	AVERAGE POROSITY $(\mathscr{G}) =$	6 %
	AVG. WATER SATURATION (Sw) =	26 %
	NET PAY THICKNESS (H) =	118 FT
	OIL FORMATION VOLUME FACTOR (Bo) =	1.25 RB/STB

 $OOIP = (7758 * H * A * \mathscr{O} * (1 - Sw)) / Bo$

OOIP = 9,754,971 STB

TOTAL	FIELD	RECOVERY	Ŧ	3,758,000 STB
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RECOVERY FACTOR =

38.52%

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BARNES AREA FIELD

DATA:

PRODUCTIVE ACREAGE $(A) =$	288	ACRES
AVERAGE POROSITY $(\emptyset) =$	6	8
AVG. WATER SATURATION (Sw) =	25	%
NET PAY THICKNESS (H) =	28	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:

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PRODUCTIVE ACREAGE $(A) =$	40	ACRES
AVERAGE POROSITY $(\emptyset) =$	6	%
AVG. WATER SATURATION (Sw) =	25	8
NET PAY THICKNESS $(H) =$	10	\mathbf{FT}
OIL FORMATION VOLUME FACTOR (Bo) =	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:

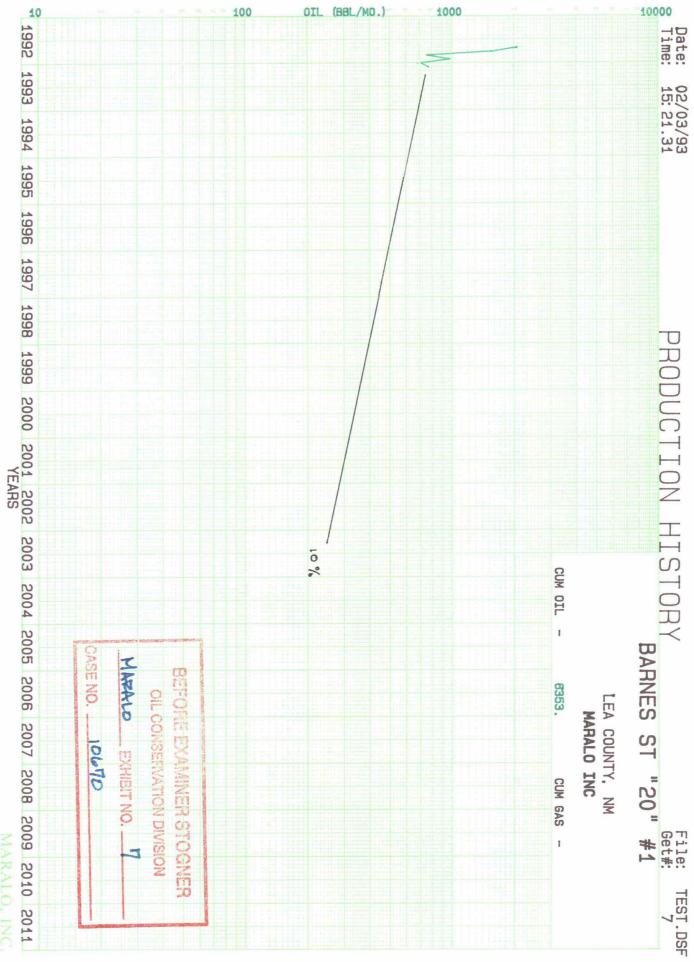
PRODUCTIVE ACREAGE $(A) =$	80	ACRES
AVERAGE POROSITY $(\emptyset) =$	6	8
AVG. WATER SATURATION (Sw) =	25	8
NET PAY THICKNESS $(H) =$	13	FT
OIL FORMATION VOLUME FACTOR (Bo) =	1.25	RB/STB

OOIP = (7758 * H * A * Ø * (1 - Sw)) / BoOOIP = 290,460 STB

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EST. ULT. RECOVERY =	121,993 STB

RECOVERY FACTOR =	42.00%



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