

Case Number

3887

Large

Exhibits



**BOND AREA**  
ROOSEVELT & LEA COUNTIES, NEW MEXICO  
PRODUCTION HISTORY

Date	BTA - KGS #1 (Mobil-Walker Fed. #1)			BTA - Northcott #1 (Texaco-Northcott)			Hanks - Cabot St. #1 (Cabot-St. #1-R)			BTA - Bond #1			Area Total			Cumulative Oil
	Oil	Water	Gas	Oil	Water	Gas	Oil	Water	Gas	Oil	Water	Gas	Oil	Water	Gas	
1965 T.A.																
Jan.																81,388
Feb.																81,388
Mar.																81,388
Apr.																81,388
May																81,388
Jun.																81,388
Jul.				660		7000				660		7000				82,048
Aug.				660		6500				660		6500				82,708
Sep.				1556		6000				1556		6000				84,264
Oct.				2418		7500				2418		7500				86,682
Nov.				1634		6100				1634		6100				88,316
Dec.				1100		3000				1100		3000				89,416
1966 T.A.																89,416
Jan.				248		1400				248		1400				89,664
Feb.				1746		1600				1746		1600				91,410
Mar.				1955		3000				1955		3000				93,365
Apr.				2474		5000				2474		5000				95,839
May				3176		8000				3176		8000				99,015
Jun.				1320		3000				1320		3000				100,335
Jul.																100,335
Aug.				140		1600				140		1600				100,475
Sep.				2302		9000				2302		9000				102,777
Oct.				1063		9000				1063		9000				103,840
Nov.				3581		22000				3581		22000				107,421
Dec.				2200		13200				2200		13200				109,621

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**BOND AREA**  
ROOSEVELT & LEA COUNTIES, NEW MEXICO  
PRODUCTION HISTORY

Date	BTA - KGS #1 (Mobil-Walker Fed. #1)			BTA - Northcott #1 (Texaco-Northcott)			Hanks - Cabot St. #1 (Cabot-St. #1-R)			BTA - Bond #1			Area Total			Cumulative Oil
	Oil	Water	Gas	Oil	Water	Gas	Oil	Water	Gas	Oil	Water	Gas	Oil	Water	Gas	
1967 T.A.																
Jan.				2566		14000							2566		14000	113,187
Feb.				2101		14200							2101		14200	114,288
Mar.				1789		15000							1789		15000	116,077
Apr.				730		3000							730		3000	116,807
May				2538		N.R.							2538		N.R.	119,345
Jun.				3494									3494			122,839
Jul.				3050									3050			125,889
Aug.				2222									2222			128,111
Sep.				2296									2296			130,407
Oct.				2442									2442			132,849
Nov.				1645									1645			134,494
Dec.				224									224			135,018
1968 T.A.																135,018
Jan.				2386									2386			137,404
Feb.				2072									2072			139,476
Mar.				2317									2317			141,793
Apr.				2741									2741			144,534
May				2874		20100							2874		20100	147,408
Jun.				2153		16340							2153		16340	149,561
Jul.				4445		24250							4445		24250	154,719
Aug.				2939		15350							2939		15350	157,658
Sep.																157,658
Oct.																157,658
Nov.																157,658
Dec.																157,658

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**BOND AREA**  
Roosevelt & Lea County, New Mexico  
BHP & Production History

Company, Lease, & Well	Date of Press.	Location U - S - T - R	BHP -5700	Cumulative Oil Production Barrels
Mobil-Walker Fed. #1	1/50	M 8 9 36	3588#	0-
Mobil-Walker Fed. #1-H	4/50	M 6 9 36	3500#	15,876
Texaco - Northcott #1	8/61	B 5 9 36	3015#	81,388
Cabot - State R #1	3/67	K 32 8 36	2440#	116,077
BTA - Northcott #1	6/68	B 5 9 36	2251#	149,561
BTA - Bond #1	8/68	J 5 9 36	2376#	166,911
BTA - KGS #1	8/68	M 8 9 36	2590#	165,911
BTA - Northcott #1	9/68	B 5 9 36	2227#	179,110 (EST)
BTA - Bond #2	9/68	L 5 9 36	2477#	179,110 (EST)
BTA - Walker #1	10/68	M 6 9 36	2645#	179,110 (EST)

EXHIBIT NO 7





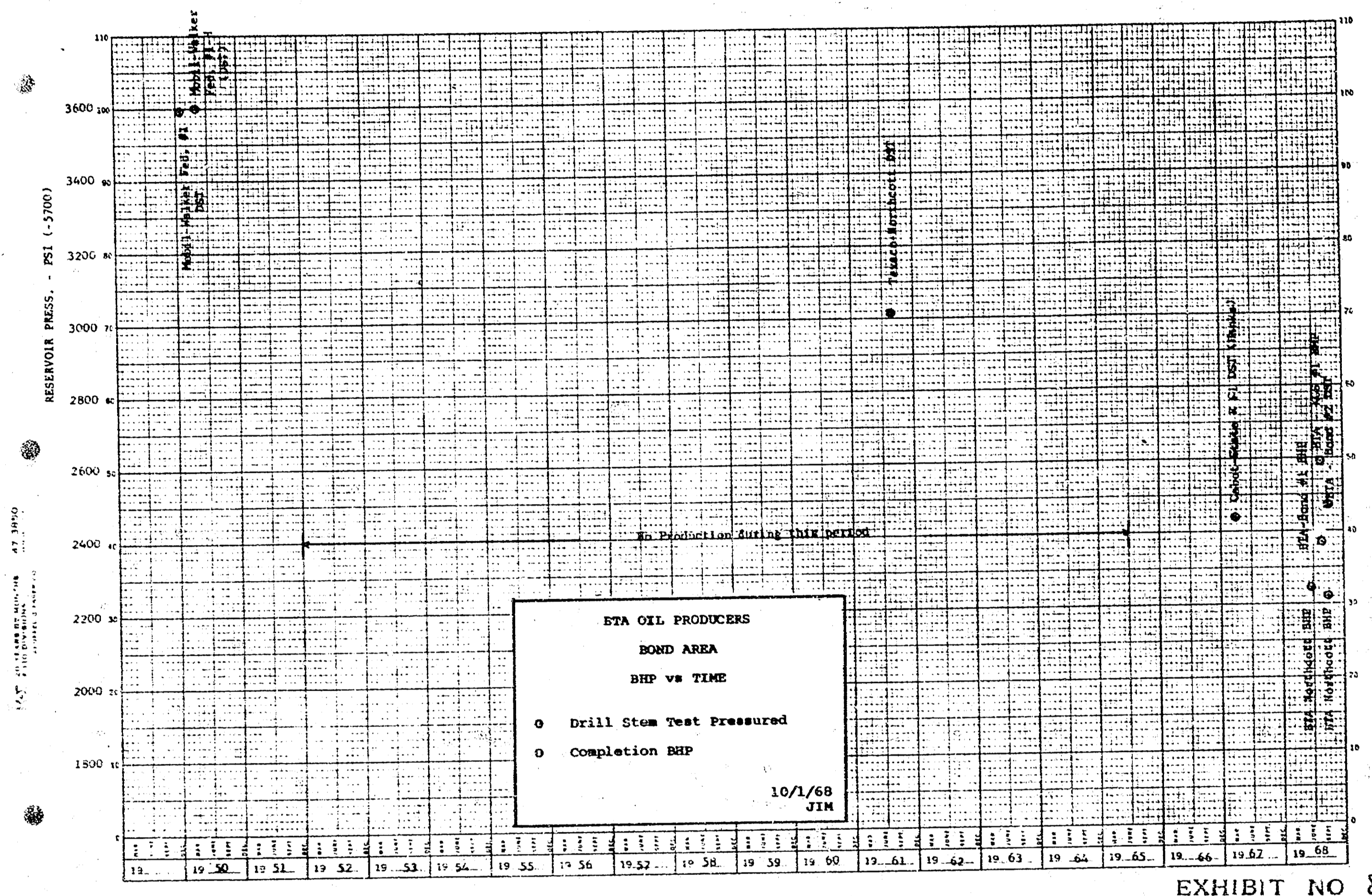


EXHIBIT NO 8

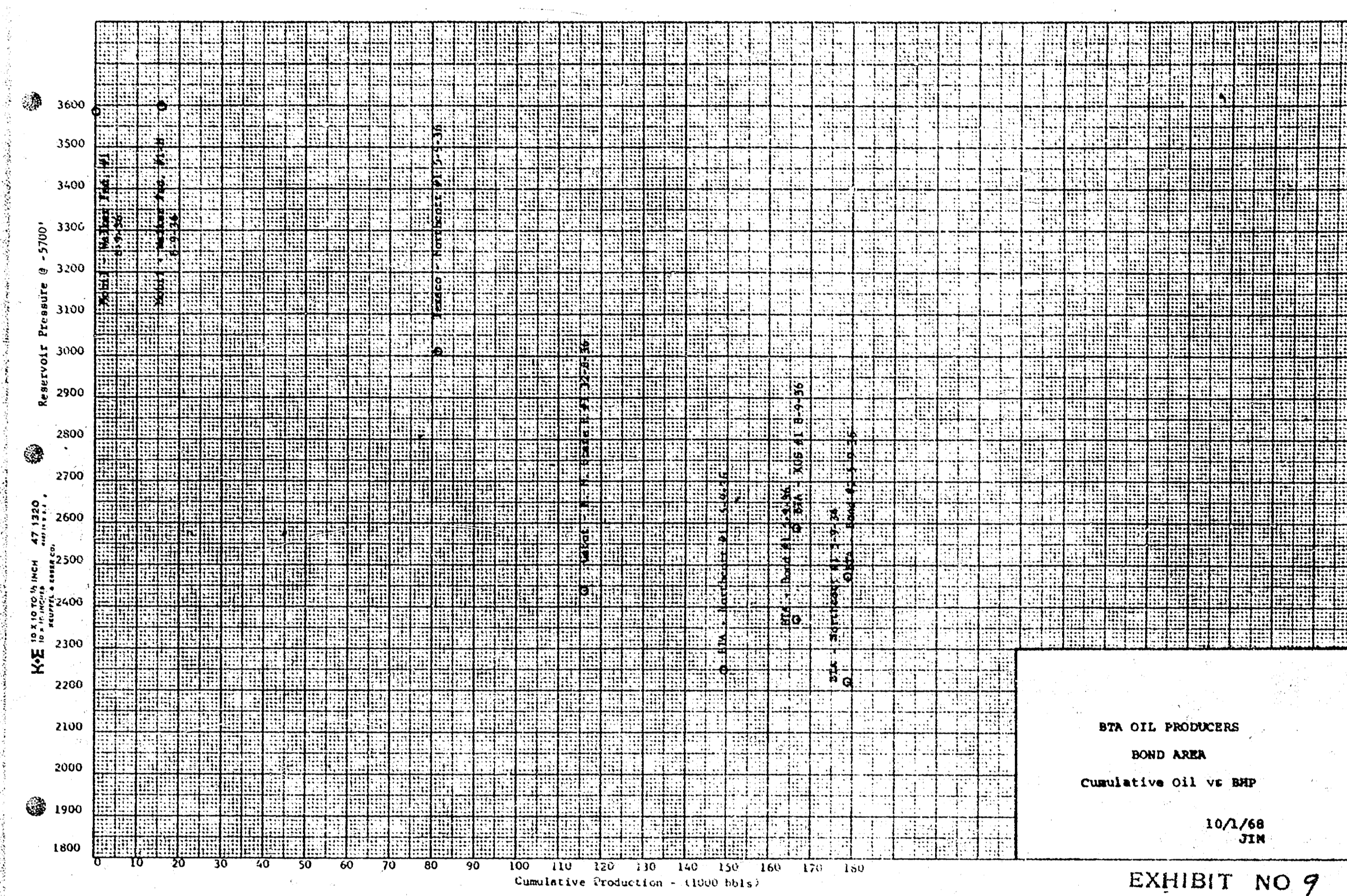


EXHIBIT NO 9

BOND AREA  
ROOSEVELT & LEA COUNTIES, NEW MEXICO

RESERVOIR DATA

POROSITY	Range	5-10%
	Average	8%
PERMEABILITY	Calculated	245 MD (From BHP data, BTA Bond #3)
WATER SATURATION	Estimate	30%
FORMATION VOLUME FACTOR		1.50 (Borden's Correlation)
RECOVERY FACTOR	Estimate	35%
NET PAY	Range	4-12'
	Average	10'
BUBBLE POINT - EST.		3200' (Analogy w/Vada Penn)
RESERVOIR PRESSURE @ ABANDONMENT		500
OIL GRAVITY		46° API @ 60°
GAS GRAVITY		0.825
SOLUTION GOR		Est. 1000 cr/mbl.
OIL IN PLACE		$= \frac{7758 \times 0.08 \times 0.20}{1.50}$
		$= 290 \text{ bbl/Acre Ft.}$
ESTIMATED ULTIMATE RECOVERABLE OIL		$= 290 \times 35\% \text{ or } 102 \text{ bbl/Acre Ft.}$
		$= 102 \times 10' \text{ or } 1020 \text{ bbl/Acre}$
		$= 81,600 \text{ bbl/80 Acres}$
		$= 163,200 \text{ bbl/160 Acres}$
ESTIMATED % DEPLETED		$= \frac{3200 - 2450}{3200 - 500} \times 100 \text{ or } 27.7\%$
THIS RECOVERABLE OIL @10-1-68 @ 72.3% is:		$= 59,000 \text{ bbls/80 acres}$
		$= 118,200 \text{ bbls/160 acres}$

EXHIBIT NO 10





BOND AREA  
ROOSEVELT & LEA COUNTIES, NEW MEXICO  
ECONOMICS

GROSS INCOME (OIL & GAS)		\$3.20/bbl.
WORKING INTEREST INCOME @ 87.5%		2.80/bbl.
OPERATING COSTS AND TAXES		0.50/bbl.
NET WORKING INTEREST INCOME		\$2.30/bbl.

ASSUMING NO DEPLETION OF RESERVES:

ACRES PER WELL	80	160
ESTIMATED RECOVERY - BBLS	81,600	163,200
TOTAL NET INCOME	\$188,000	\$376,000
DEVELOPMENT COST PER WELL	\$175,000	\$175,000
NET PROFIT PER WELL	\$ 13,000	\$201,000
RATIO OF INCOME TO INVESTMENT	1.07	2.15

ALLOWING FOR ESTIMATED DEPLETION OF RESERVES:

ESTIMATED RECOVERY - BBLS	59,000	118,000
TOTAL NET INCOME	\$135,800	\$272,000
DEVELOPMENT COST PER WELL	\$175,000	\$175,000
NET PROFIT (LOSS) PER WELL	(\$ 39,200)	\$ 97,000
RATIO OF INCOME TO INVESTMENT	0.77	1.55

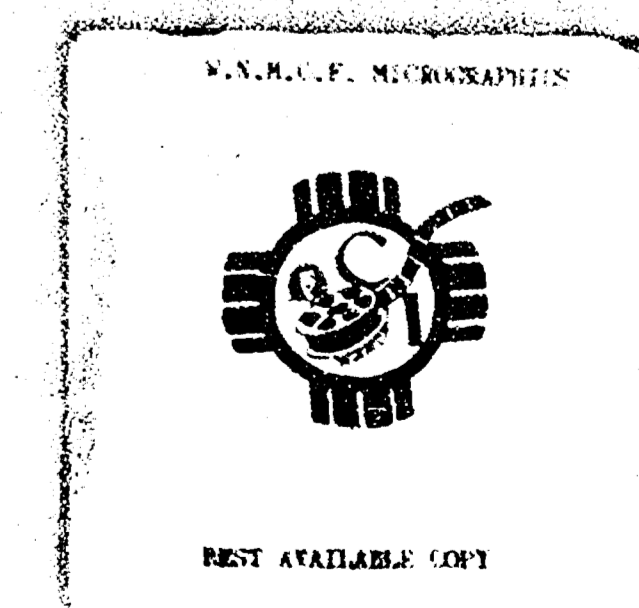
EXHIBIT NO 11

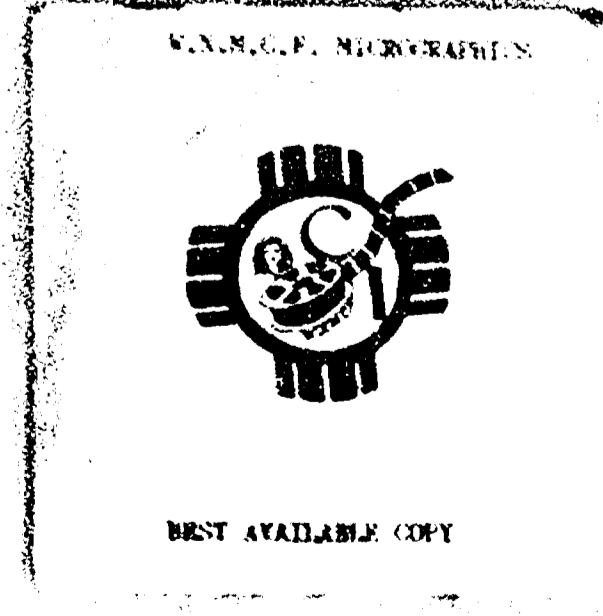
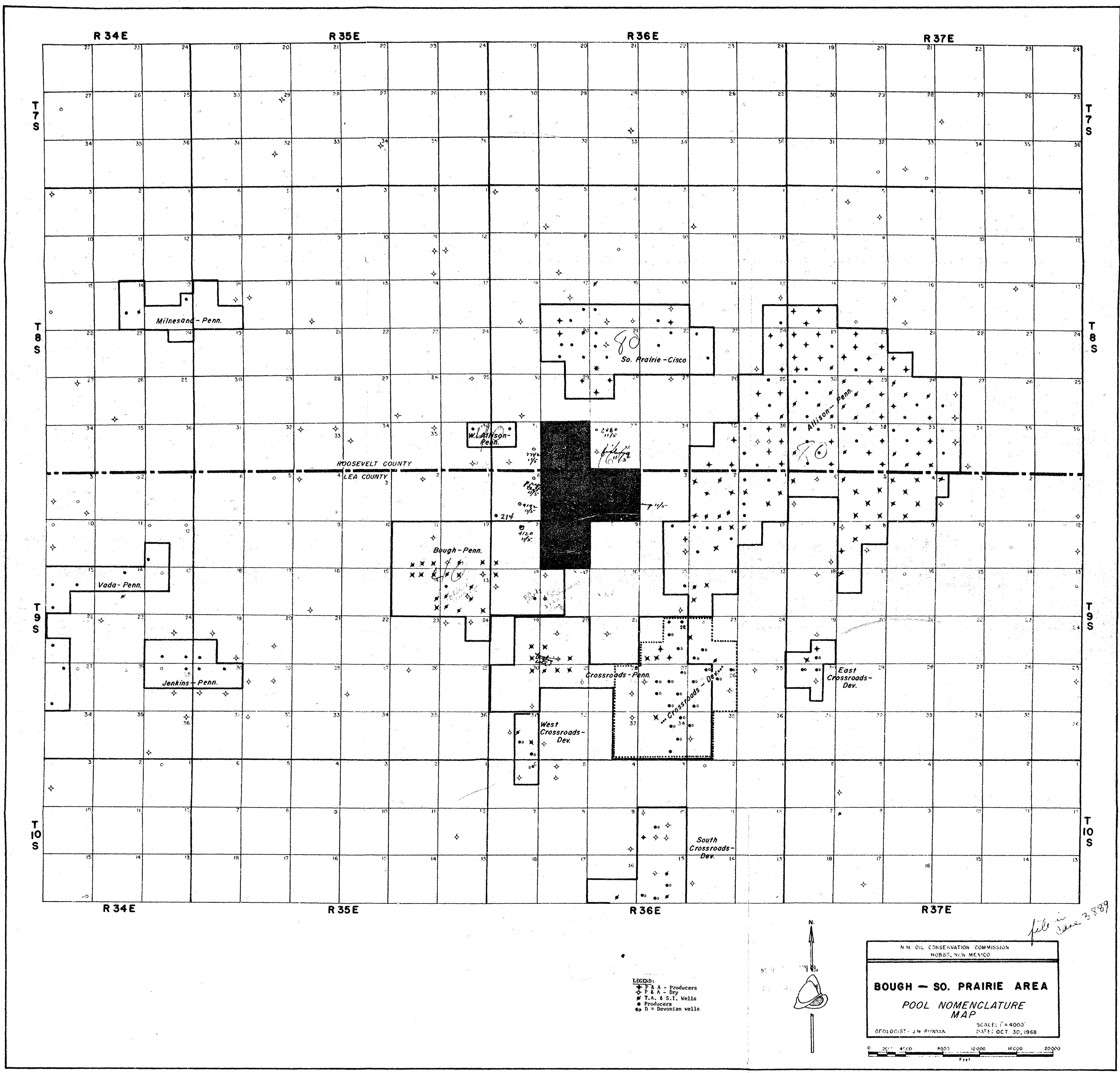
BOND AREA  
Roosevelt & Lea Counties, New Mexico  
Sec. 32, T-8-S, R-36-E, & Sec. 4, 5, 8, T-9-S, R-36-E

SUGGESTED SPECIAL RULES & REGULATIONS

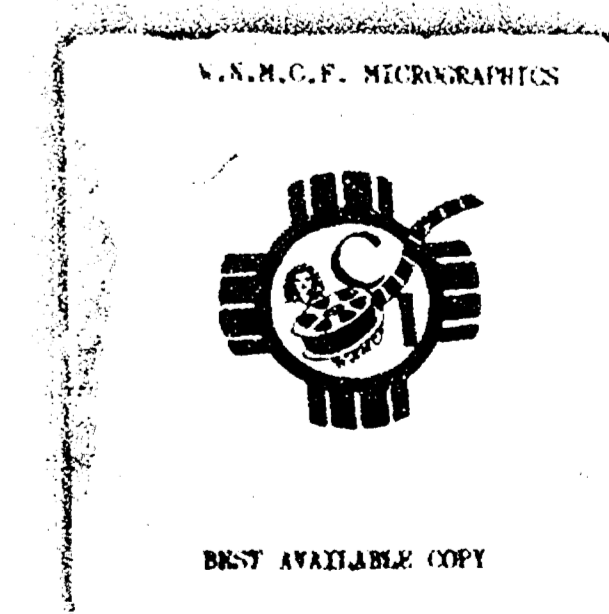
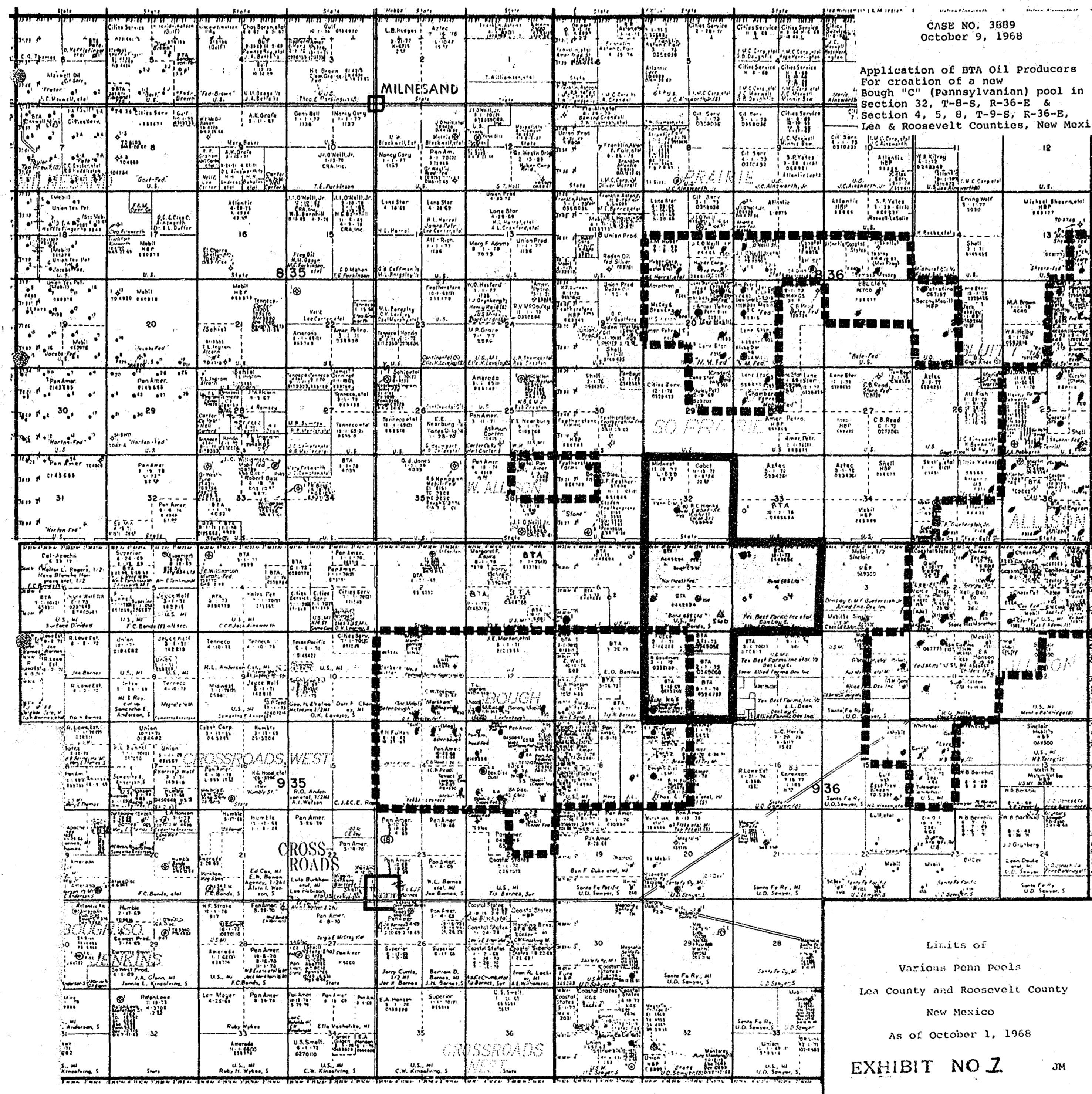
1. All Bough "C" wells drilled within one mile of this pool will be regulated by these rules.
2. Each well shall be located on a standard unit containing 160 acres, in the form of a square, which is a quarter section of a governmental section.
3. The Secretary-Director of the Commission may grant an exception to the acreage requirements for variations in the legal subdivision of the United States Public Land Surveys.
4. Each well shall be located within 150' of the center of a governmental quarter - quarter section.
5. The Secretary-Director may grant an exception to the requirement of No. 4 due to topographical conditions or the recompletion of a well previously drilled to another horizon.
6. A standard proration unit (160 through 182 acres) shall be assigned a proportional factor of 4.77 for allowable purposes.

EXHIBIT NO 12















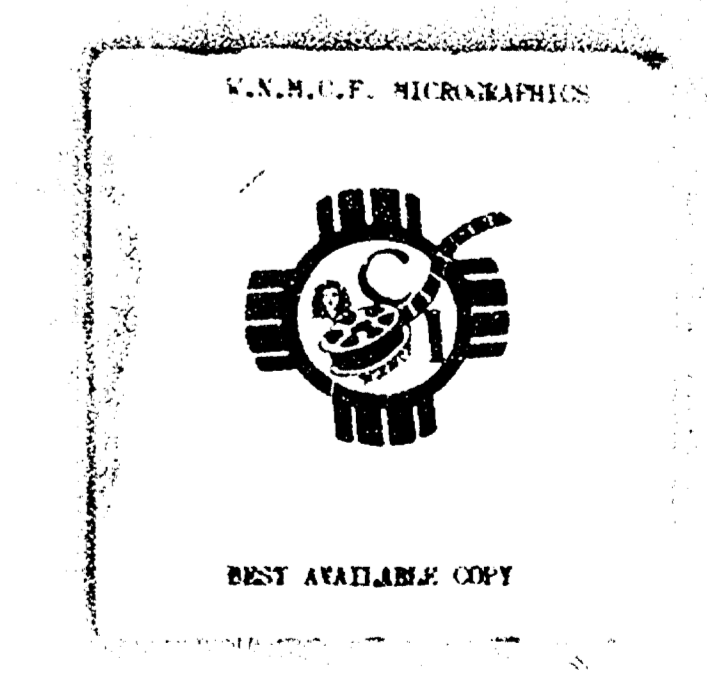


**BOND AREA**  
**ROOSEVELT & ADA COUNTIES, NEW MEXICO**  
**PRODUCTION HISTORY**

	BTA - 408 #1 (Mobil-Walker Fed. #1)			BTA - Northcott #1 (Toxaco-Northcott)			Hanks - Cabot St. #1 (Cabot-St. #1-R)			BTA - Bond #1			Area Total			Cumulative Oil
	Oil	Water	Gas	Oil	Water	Gas	Oil	Water	Gas	Oil	Water	Gas	Oil	Water	Gas	
1950	1504	-	3919	Completed July, 1965	Completed July, 1968	Completed Aug., 1968	1504	-	3919	1504	-	3919	1504	-	3919	1,504
Jan.	5070	84	6323				5070	84	6323	5070	84	6323	5070	84	6323	6,574
Feb.	4676	93	7709				4676	93	7709	4676	93	7709	4676	93	7709	11,250
Mar.	4626	210	7918				4626	210	7918	4626	210	7918	4626	210	7918	15,876
Apr.	4922	217	8180				4922	217	8180	4922	217	8180	4922	217	8180	20,798
May	4192	180	7381				4192	180	7381	4192	180	7381	4192	180	7381	24,990
Jun.	5192	186	8804				5192	186	8804	5192	186	8804	5192	186	8804	30,182
Jul.	5876	186	9563				5876	186	9563	5876	186	9563	5876	186	9563	36,058
Aug.	5455	480	8780				5455	480	8780	5455	480	8780	5455	480	8780	41,513
Sep.	5305	4960	4960				5305	4960	4960	5305	4960	4960	5305	4960	4960	46,618
Oct.	5346	4800	8704				5346	4800	8704	5346	4800	8704	5346	4800	8704	52,164
Nov.	5314	4960	9084				5314	4960	9084	5314	4960	9084	5314	4960	9084	57,478
Dec.																
1951	5337	4960	9084				5337	4960	N.R.	5337	4960	N.R.	5337	4960	N.R.	62,815
Jan.	4784	4480	67,599				4784	4480		4784	4480		4784	4480		67,599
Feb.	4547	4960	72,146				4547	4960		4547	4960		4547	4960		72,146
Mar.	5135	4800	77,281				5135	4800		5135	4800		5135	4800		77,281
Apr.	3794	8339	81,075				3794	8339		3794	8339		3794	8339		81,075
May	313	8070	81,388				-	8070		-	8070		-	8070		81,388
Jun.	-	8339	81,388				-	8339		-	8339		-	8339		81,388
Jul.	-	8070	81,388				-	8070		-	8070		-	8070		81,388
Aug.	-	8339	81,388				-	8339		-	8339		-	8339		81,388
Sep.	-	8070	81,388				-	8070		-	8070		-	8070		81,388
Oct.	-	8339	81,388				-	8339		-	8339		-	8339		81,388
Nov.	T.A.	-	81,388				T.A.	-		T.A.	-		T.A.	-		81,388
Dec.	-	-	81,388				-	-		-	-		-	-		81,388

No production from 12/1/51 to 6/31/65

EXHIBIT NO 4



Name	Address	Ph.	Name	Address	Ph.

Name	Address	Ph.	Name	Address	Ph.

Name	Address	Ph.	Name	Address	Ph.

Name	Address	Ph.	Name	Address	Ph.

