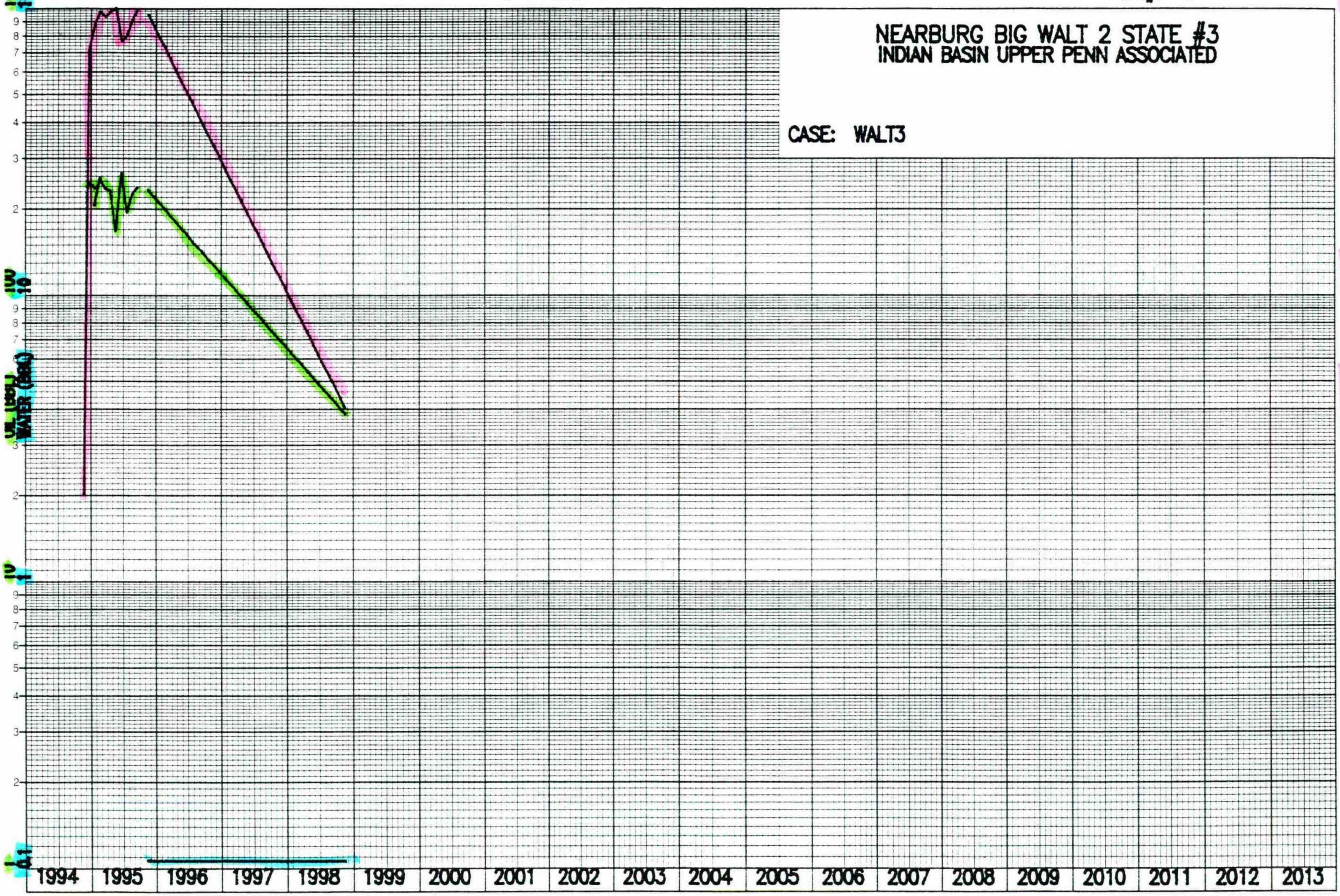
Date: 01/22/96
Time: 13:23:11

PRODUCTION HISTORY

File: BASIN.DSF
Get#: 3



OGRE(R) V1.40 BTAX
FILE NAME: BASIN (3)
CASE NAME: WALT3
CMD NAME: STDC2141(300)

DATA REPORT

DATE: 01/22/96
TIME: 13:22:05

101 NEARBURG BIG WALT 2 STATE #3
102 INDIAN BASIN UPPER PENN ASSOCIATED

117 CASE NONE
120 11 95 12 1 1 96 10 1

	W.I. FRACTION	OP. COST ($/W/MO)	OP. COST ($/MO.)	ADV. TAX (PCT)	MAJOR PH. NAME	PROD DATE (MO/DY/YR)
210	1.00000000	.00	5000.00	.000	OIL	12/ 1/95

	PHASE NAME	CUM PROD (MUNITS)	REV. INT FRACTION	PRICE ($/UNIT)	SEV. TAX (PCT)	NO. OF WELLS	RATIO TO MAJOR PH
221	OIL	1.882	.87500000	17.500	6.000	.0	
222	GAS	832.611	.87500000	1.500	6.000	1.0	
223	WATER	.045	.87500000	.000	.000	.0	

	PH. NAME	CURVE TP		DECLINE%	QI RATE	QT RATE	CUM. LIMIT		(M OR Y)	CALC VALUE	
410	OIL	EXP		45.000	222.000	X	3.080	YRS	M		
CALC	OIL	EXP	END=	45.000	222.000	35.210	3.163	YRS	M	5.631	MBBL
412	GAS	EXP		65.000	91729.000	X	3.080	YRS	M		
CALC	GAS	EXP	END=	65.000	91729.000	3616.065	3.163	YRS	M	1839.787	MMCF
414	WATER	FLAT		.000	.000	.000	3.080	YRS	M		
CALC	WATER	FLAT	END=	.000	.000	.000	3.163	YRS	M	.045	M-UNITS

NEARBURG BIG WALT 2 STATE #3
INDIAN BASIN UPPER PENN ASSOCIATED

DATE: 01/22/96
TIME: 13:22:05
FILE: BASIN
GET#: 3

R E S E R V E S   A N D   E C O N O M I C S

AS OF JANUARY 1, 1996

-END- MO-YR	---GROSS PRODUCTION--- OIL, MBBL	GAS, MMCF	----NET PRODUCTION---- OIL, MBBL	GAS, MMCF	--PRICES--- OIL $/B	GAS $/M	--------OPERATIONS, M$-------- NET OPER REVENUES	SEV+ADV TAXES	NET OPER EXPENSES	CAPITAL COSTS, M$	CASH FLOW BTAX, M$	10.00 PCT CUM. DISC BTAX, M$
12-95	.217	87.831	.190	76.852	17.50	1.50	118.603	7.117	5.000	.000	106.486	106.910
12-96	1.907	624.441	1.669	546.386	17.50	1.50	848.787	50.927	60.000	.000	737.860	810.698
12-97	1.050	218.554	.919	191.235	17.50	1.50	302.936	18.176	60.000	.000	224.760	1005.590
12-98	.575	76.350	.503	66.806	17.50	1.50	109.012	6.541	59.800	.000	42.671	1039.232
12-99												
12- 0												
12- 1												
12- 2												
12- 3												
12- 4												
12- 5												
12- 6												
12- 7												
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12- 9												
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12-12												
12-13												
12-14												
S TOT	3.749	1007.176	3.281	881.279	17.50	1.50	1379.338	82.761	184.800	.000	1111.777	1039.232
REM.	.000	.000	.000	.000	.00	.00	.000	.000	.000	.000	.000	1039.232
TOTAL	3.749	1007.176	3.281	881.279	17.50	1.50	1379.338	82.761	184.800	.000	1111.777	1039.232

CUM.	1.882	832.611
ULT.	5.631	1839.787

NET OIL REVENUES (M$)	57.419
NET GAS REVENUES (M$)	1321.919
TOTAL REVENUES (M$)	1379.338

BTAX RATE OF RETURN (PCT)	100.00
BTAX PAYOUT YEARS	.08
BTAX PAYOUT YEARS (DISC)	.08
BTAX NET INCOME/INVEST	.00
BTAX NET INCOME/INVEST (DISC)	.00
INITIAL W.I. FRACTION	1.000000
FINAL W.I. FRACTION	1.000000
PRODUCTION START DATE	12- 1-95
MONTHS IN FIRST LINE	2.00
WATER GROSS PROD. (MU)	.000

PROJECT LIFE (YEARS)	3.163
DISCOUNT RATE (PCT)	10.000
GROSS OIL WELLS	.000
GROSS GAS WELLS	1.000
GROSS WELLS	1.000
INITIAL NET OIL FRACTION	.875000
FINAL NET OIL FRACTION	.875000
INITIAL NET GAS FRACTION	.875000
FINAL NET GAS FRACTION	.875000
WATER NET PRODUCTION (MU)	.000

---------PRESENT WORTH PROFILE---------

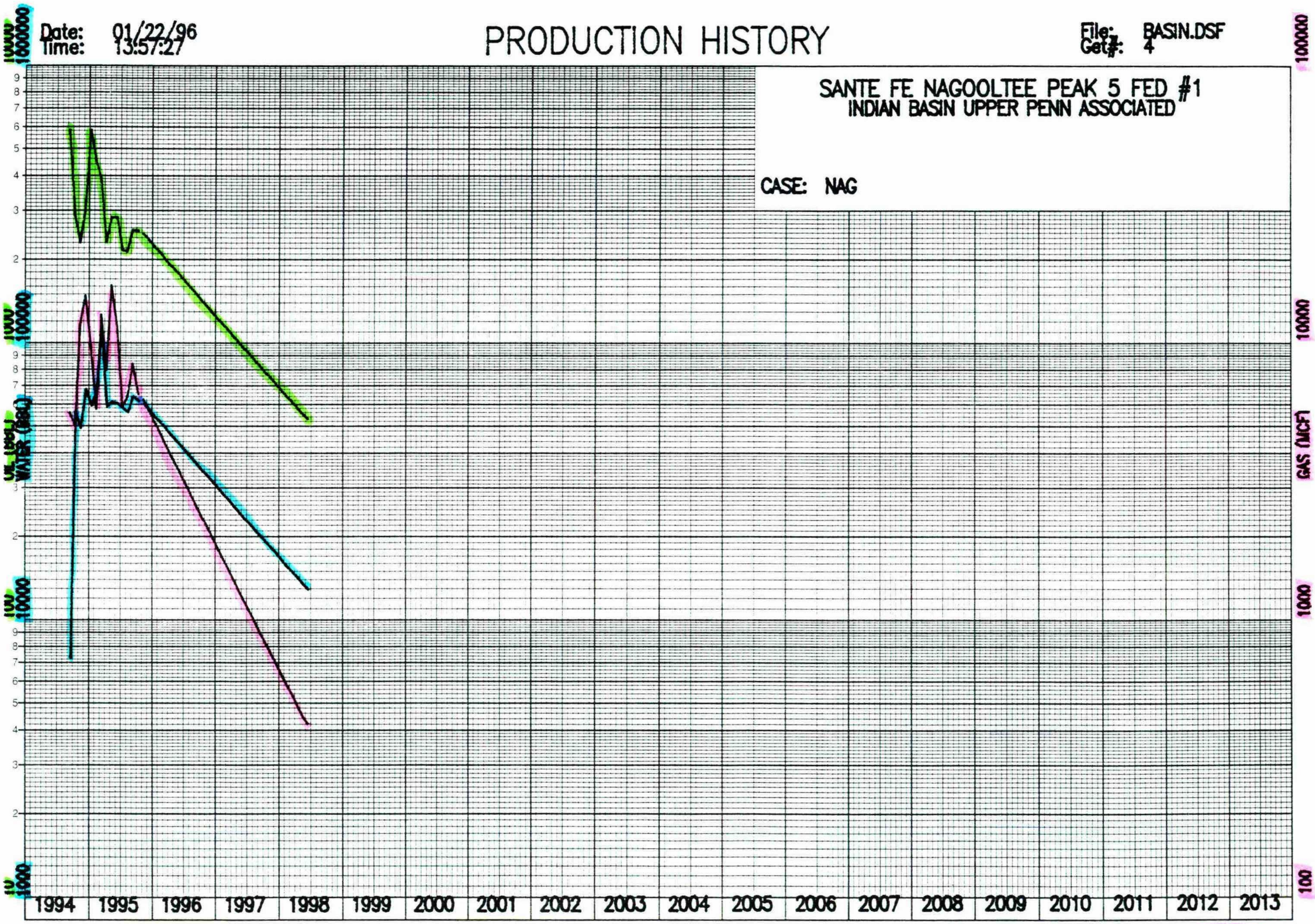
DISC RATE	PW OF NET BTAX, M$	DISC RATE	PW OF NET BTAX, M$
.0	1111.777	30.0	930.953
2.0	1095.973	35.0	909.329
5.0	1073.549	40.0	889.364
8.0	1052.529	45.0	870.871
10.0	1039.232	50.0	853.686
12.0	1026.466	60.0	822.702
15.0	1008.246	70.0	795.513
18.0	991.052	80.0	771.440
20.0	980.117	90.0	749.954
25.0	954.459	100.0	730.643

WATER NET REVENUES (M$) .000

PRODUCTION HISTORY

Date: 01/22/96
Time: 13:57:27

File: BASIN.DSF
Get#: 4



CUMULATIVE OIL (BBL)= 42490.

DPC & A

SL 20 3 3

CUMULATIVE GAS (MCF)= 119065.

CASE NAME: NAG
CMD NAME: STDC5615(300)

101 SANTE FE NAGOOLTEE PEAK 5 FED #1
102 INDIAN BASIN UPPER PENN ASSOCIATED

117 CASE NONE
120 12 95 12 1 1 96 10 1

	W.I. FRACTION	OP. COST ($/W/MO)	OP. COST ($/MO.)	ADV. TAX (PCT)	MAJOR PH. NAME	PROD DATE (MO/DY/YR)
210	1.00000000	.00	7500.00	.000	OIL	12/ 1/95

	PHASE NAME	CUM PROD (MUNITS)	REV. INT FRACTION	PRICE ($/UNIT)	SEV. TAX (PCT)	NO. OF WELLS	RATIO TO MAJOR PH
221	OIL	42.490	.87500000	17.500	6.000	1.0	
222	GAS	119.065	.87500000	1.500	6.000	.0	
223	WATER	784.605	.87500000	.000	.000	.0	

	PH. NAME	CURVE TP		DECLINE%	QI RATE	QT RATE	CUM. LIMIT		(M OR Y)	CALC VALUE	
410	OIL	EXP		45.000	2357.000	X	2.638	YRS	M		
CALC	OIL	EXP	END=	45.000	2357.000	486.896	2.638	YRS	M	80.027	MBBL
412	GAS	EXP		65.000	6083.000	X	2.638	YRS	M		
CALC	GAS	EXP	END=	65.000	6083.000	381.390	2.638	YRS	M	184.237	MMCF
414	WATER	EXP		45.000	57629.000	X	2.638	YRS	M		
CALC	WATER	EXP	END=	45.000	57629.000	11904.684	2.638	YRS	M	1702.400	M-UNITS

SANTE FE NAGOOLTEE PEAK 5 FED #1
INDIAN BASIN UPPER PENN ASSOCIATED

DATE: 01/22/96
TIME: 13:56:39
FILE: BASIN
GET#: 4

RESERVES AND ECONOMICS

AS OF JANUARY 1, 1996

-END- MO-YR	---GROSS PRODUCTION--- OIL, MBBL	GAS, MMCF	----NET PRODUCTION---- OIL, MBBL	GAS, MMCF	--PRICES--- OIL $/B	GAS $/M	--------OPERATIONS, M$-------- NET OPER REVENUES	SEV+ADV TAXES	NET OPER EXPENSES	CAPITAL COSTS, M$	CASH FLOW BTAX, M$	10.00 PCT CUM. DISC BTAX, M$
12-95	2.299	5.825	2.012	5.097	17.50	1.50	42.856	2.572	7.500	.000	32.784	32.915
12-96	20.255	41.409	17.723	36.233	17.50	1.50	364.503	21.870	90.000	.000	252.633	273.882
12-97	11.141	14.494	9.748	12.682	17.50	1.50	189.613	11.376	90.000	.000	88.237	350.393
12-98	3.842	3.444	3.362	3.014	17.50	1.50	63.356	3.801	49.920	.000	9.635	358.149
12-99												
12- 0												
12- 1												
12- 2												
12- 3												
12- 4												
12- 5												
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12- 7												
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12-14												
S TOT	37.537	65.172	32.845	57.026	17.50	1.50	660.328	39.619	237.420	.000	383.289	358.149
REM.	.000	.000	.000	.000	.00	.00	.000	.000	.000	.000	.000	358.149
TOTAL	37.537	65.172	32.845	57.026	17.50	1.50	660.328	39.619	237.420	.000	383.289	358.149

CUM.	42.490	119.065
ULT.	80.027	184.237

NET OIL REVENUES (M$)	574.788
NET GAS REVENUES (M$)	85.540
TOTAL REVENUES (M$)	660.328

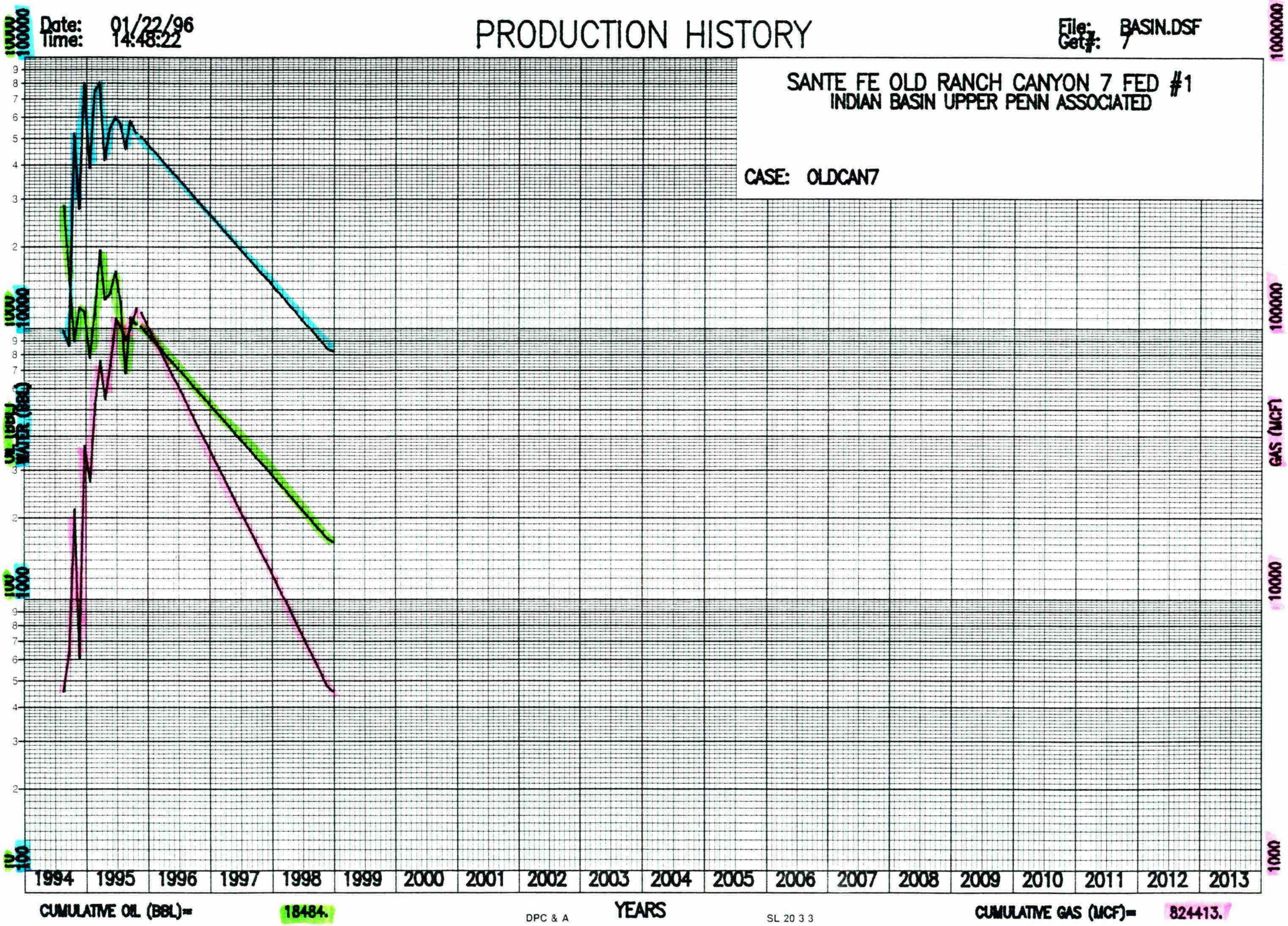
BTAX RATE OF RETURN (PCT)	100.00	PROJECT LIFE (YEARS)	2.638
BTAX PAYOUT YEARS	.00	DISCOUNT RATE (PCT)	10.000
BTAX PAYOUT YEARS (DISC)	.00	GROSS OIL WELLS	1.000
BTAX NET INCOME/INVEST	.00	GROSS GAS WELLS	.000
BTAX NET INCOME/INVEST (DISC)	.00	GROSS WELLS	1.000
INITIAL W.I. FRACTION	1.000000	INITIAL NET OIL FRACTION	.875000
FINAL W.I. FRACTION	1.000000	FINAL NET OIL FRACTION	.875000
PRODUCTION START DATE	12- 1-95	INITIAL NET GAS FRACTION	.875000
MONTHS IN FIRST LINE	1.00	FINAL NET GAS FRACTION	.875000

---------PRESENT WORTH PROFILE---------

DISC RATE	PW OF NET BTAX, M$	DISC RATE	PW OF NET BTAX, M$
.0	383.289	30.0	320.362
2.0	377.825	35.0	312.781
5.0	370.060	40.0	305.773
8.0	362.768	45.0	299.274
10.0	358.149	50.0	293.229
12.0	353.711	60.0	282.315
15.0	347.366	70.0	272.727
18.0	341.373	80.0	264.228
20.0	337.556	90.0	256.638
25.0	328.590	100.0	249.810

WATER GROSS PROD. (MU) 917.795   WATER NET PRODUCTION (MU) 803.071   WATER NET REVENUES (M$) .000

PRODUCTION HISTORY



OGRE(R) V1.40 BTAX — DATA REPORT — DATE: 01/22/96
FILE NAME: BASIN (7) — TIME: 14:46:45
CASE NAME: OLDCAN7
CMD NAME: STDA4623(300)

101 SANTE FE OLD RANCH CANYON 7 FED #1
102 INDIAN BASIN UPPER PENN ASSOCIATED

117 CASE NONE
120 12 95 12 1 1 96 10 1

	W.I. FRACTION	OP. COST ($/W/MO)	OP. COST ($/MO.)	ADV. TAX (PCT)	MAJOR PH. NAME	PROD DATE (MO/DY/YR)
210	1.00000000	.00	7500.00	.000	OIL	12/ 1/95

	PHASE NAME	CUM PROD (MUNITS)	REV. INT FRACTION	PRICE ($/UNIT)	SEV. TAX (PCT)	NO. OF WELLS	RATIO TO MAJOR PH
221	OIL	18.484	.87500000	17.500	6.000	1.0	
222	GAS	824.413	.87500000	1.500	6.000	.0	
223	WATER	691.185	.87500000	.000	.000	.0	

	PH. NAME	CURVE TP		DECLINE%	QI RATE	QT RATE	CUM. LIMIT		(M OR Y)	CALC VALUE	
410	OIL	EXP		45.000	972.000	X	3.097	YRS	M		
CALC	OIL	EXP	END=	45.000	972.000	152.605	3.097	YRS	M	34.931	MBBL
412	GAS	EXP		65.000	111365.000	X	3.097	YRS	M		
CALC	GAS	EXP	END=	65.000	111365.000	4312.484	3.097	YRS	M	2048.078	MMCF
414	WATER	EXP		45.000	48701.000	X	3.097	YRS	M		
CALC	WATER	EXP	END=	45.000	48701.000	7646.120	3.097	YRS	M	1515.253	M-UNITS

SANTE FE OLD RANCH CANYON 7 FED #1
INDIAN BASIN UPPER PENN ASSOCIATED

DATE: 01/22/96
TIME: 14:46:45
FILE: BASIN
GET#: 7

R E S E R V E S   A N D   E C O N O M I C S

AS OF JANUARY 1, 1996

-END- MO-YR	---GROSS PRODUCTION--- OIL, MBBL	GAS, MMCF	----NET PRODUCTION---- OIL, MBBL	GAS, MMCF	--PRICES--- OIL $/B	GAS $/M	--------OPERATIONS, M$-------- NET OPER REVENUES	SEV+ADV TAXES	NET OPER EXPENSES	CAPITAL COSTS, M$	CASH FLOW BTAX, M$	10.00 PCT CUM. DISC BTAX, M$
12-95	.948	106.633	.830	93.304	17.50	1.50	154.481	9.269	7.500	.000	137.712	138.260
12-96	8.353	758.111	7.309	663.347	17.50	1.50	1122.929	67.375	90.000	.000	965.554	1059.228
12-97	4.594	265.340	4.020	232.173	17.50	1.50	418.610	25.117	90.000	.000	303.493	1322.391
12-98	2.527	92.868	2.211	81.260	17.50	1.50	160.583	9.635	90.000	.000	60.948	1370.435
12-99	.025	.713	.022	.624	17.50	1.50	1.321	.079	1.230	.000	.012	1370.444
12- 0												
12- 1												
12- 2												
12- 3												
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12- 7												
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12-10												
12-11												
12-12												
12-13												
12-14												
S TOT	16.447	1223.665	14.392	1070.708	17.50	1.50	1857.924	111.475	278.730	.000	1467.719	1370.444
REM.	.000	.000	.000	.000	.00	.00	.000	.000	.000	.000	.000	1370.444
TOTAL	16.447	1223.665	14.392	1070.708	17.50	1.50	1857.924	111.475	278.730	.000	1467.719	1370.444

	OIL, MBBL	GAS, MMCF
CUM.	18.484	824.413
ULT.	34.931	2048.078

NET OIL REVENUES (M$)	251.861
NET GAS REVENUES (M$)	1606.063
TOTAL REVENUES (M$)	1857.924

BTAX RATE OF RETURN (PCT)	100.00
BTAX PAYOUT YEARS	.00
BTAX PAYOUT YEARS (DISC)	.00
BTAX NET INCOME/INVEST	.00
BTAX NET INCOME/INVEST (DISC)	.00
INITIAL W.I. FRACTION	1.000000
FINAL W.I. FRACTION	1.000000
PRODUCTION START DATE	12- 1-95
MONTHS IN FIRST LINE	1.00
WATER GROSS PROD. (MU)	824.068

PROJECT LIFE (YEARS)	3.097
DISCOUNT RATE (PCT)	10.000
GROSS OIL WELLS	1.000
GROSS GAS WELLS	.000
GROSS WELLS	1.000
INITIAL NET OIL FRACTION	.875000
FINAL NET OIL FRACTION	.875000
INITIAL NET GAS FRACTION	.875000
FINAL NET GAS FRACTION	.875000
WATER NET PRODUCTION (MU)	721.061

---------PRESENT WORTH PROFILE---------

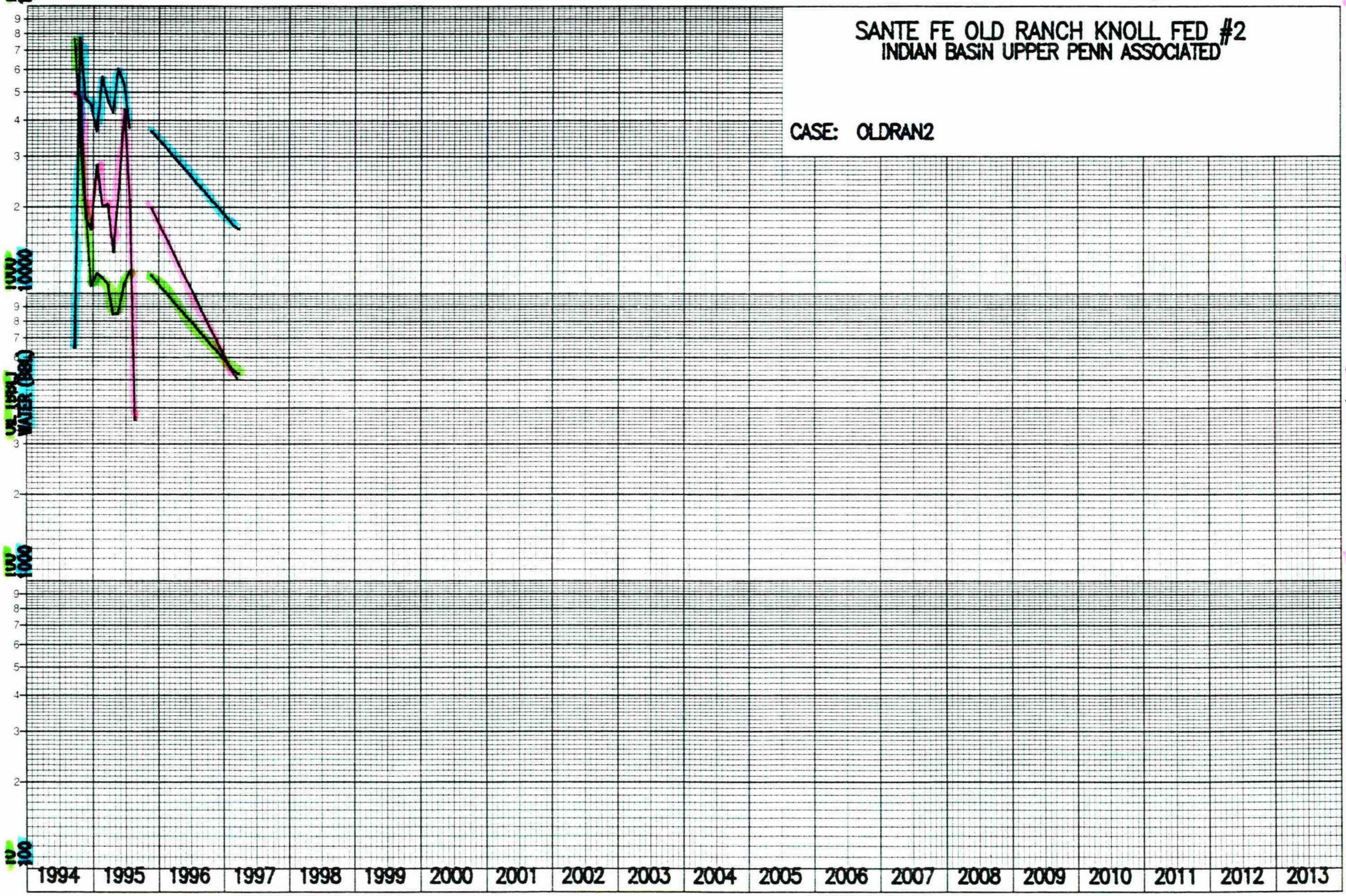
DISC RATE	PW OF NET BTAX, M$	DISC RATE	PW OF NET BTAX, M$
.0	1467.719	30.0	1225.574
2.0	1446.514	35.0	1196.694
5.0	1416.438	40.0	1170.046
8.0	1388.263	45.0	1145.372
10.0	1370.444	50.0	1122.456
12.0	1353.344	60.0	1081.167
15.0	1328.947	70.0	1044.969
18.0	1305.933	80.0	1012.942
20.0	1291.304	90.0	984.379
25.0	1256.991	100.0	958.721

WATER NET REVENUES (M$) .000

PRODUCTION HISTORY

Date: 01/22/96
Time: 14:28:57

File: BASIN.DSF
Get#: 6



CUMULATIVE OIL (BBL)= 19807.

DPC & A

SL 20 3 3

CUMULATIVE GAS (MCF)= 28318.

OGRE(R) V1.40 BTAX
FILE NAME: BASIN (6)
CASE NAME: OLDRAN2
CMD NAME: STDA2732(300)

DATA REPORT

DATE: 01/22/96
TIME: 14:27:58

101 SANTE FE OLD RANCH KNOLL FED #2
102 INDIAN BASIN UPPER PENN ASSOCIATED

117 CASE NONE
120 12 95 12 1 1 96 10 1

	W.I. FRACTION	OP. COST ($/W/MO)	OP. COST ($/MO.)	ADV. TAX (PCT)	MAJOR PH. NAME	PROD DATE (MO/DY/YR)
210	1.00000000	.00	7500.00	.000	OIL	12/ 1/95

	PHASE NAME	CUM PROD (MUNITS)	REV. INT FRACTION	PRICE ($/UNIT)	SEV. TAX (PCT)	NO. OF WELLS	RATIO TO MAJOR PH
221	OIL	19.807	.87500000	17.500	6.000	1.0	
222	GAS	28.318	.87500000	1.500	6.000	.0	
223	WATER	472.067	.87500000	.000	.000	.0	

	PH. NAME	CURVE TP		DECLINE%	QI RATE	QT RATE	CUM. LIMIT		(M OR Y)	CALC VALUE	
410	OIL	EXP		45.000	1095.000	X	1.370	YRS	M		
CALC	OIL	EXP	END=	45.000	1095.000	482.737	1.370	YRS	M	32.097	MBBL
412	GAS	EXP		65.000	1926.000	X	1.370	YRS	M		
CALC	GAS	EXP	END=	65.000	1926.000	457.119	1.370	YRS	M	45.108	MMCF
414	WATER	EXP		45.000	34840.000	X	1.370	YRS	M		
CALC	WATER	EXP	END=	45.000	34840.000	15359.428	1.370	YRS	M	863.088	M-UNITS

SANTE FE OLD RANCH KNOLL FED #2
INDIAN BASIN UPPER PENN ASSOCIATED

DATE: 01/22/96
TIME: 14:27:58
FILE: BASIN
GET#: 6

RESERVES AND ECONOMICS

AS OF JANUARY 1, 1996

-END- MO-YR	---GROSS PRODUCTION--- OIL, MBBL	GAS, MMCF	----NET PRODUCTION---- OIL, MBBL	GAS, MMCF	--PRICES--- OIL $/B	GAS $/M	--------OPERATIONS, M$-------- NET OPER REVENUES	SEV+ADV TAXES	NET OPER EXPENSES	CAPITAL COSTS, M$	CASH FLOW BTAX, M$	10.00 PCT CUM. DISC BTAX, M$
12-95	1.068	1.844	.935	1.614	17.50	1.50	18.784	1.127	7.500	.000	10.157	10.197
12-96	9.410	13.111	8.234	11.472	17.50	1.50	161.303	9.678	90.000	.000	61.625	68.976
12-97	1.812	1.835	1.586	1.606	17.50	1.50	30.164	1.810	25.800	.000	2.554	71.266
12-98												
12-99												
12- 0												
12- 1												
12- 2												
12- 3												
12- 4												
12- 5												
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12- 7												
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12-11												
12-12												
12-13												
12-14												
S TOT	12.290	16.790	10.755	14.692	17.50	1.50	210.251	12.615	123.300	.000	74.336	71.266
REM.	.000	.000	.000	.000	.00	.00	.000	.000	.000	.000	.000	71.266
TOTAL	12.290	16.790	10.755	14.692	17.50	1.50	210.251	12.615	123.300	.000	74.336	71.266

CUM.	19.807	28.318	NET OIL REVENUES (M$)	188.213
			NET GAS REVENUES (M$)	22.038
ULT.	32.097	45.108	TOTAL REVENUES (M$)	210.251

BTAX RATE OF RETURN (PCT)	100.00	PROJECT LIFE (YEARS)	1.370
BTAX PAYOUT YEARS	.00	DISCOUNT RATE (PCT)	10.000
BTAX PAYOUT YEARS (DISC)	.00	GROSS OIL WELLS	1.000
BTAX NET INCOME/INVEST	.00	GROSS GAS WELLS	.000
BTAX NET INCOME/INVEST (DISC)	.00	GROSS WELLS	1.000
INITIAL W.I. FRACTION	1.000000	INITIAL NET OIL FRACTION	.875000
FINAL W.I. FRACTION	1.000000	FINAL NET OIL FRACTION	.875000
PRODUCTION START DATE	12- 1-95	INITIAL NET GAS FRACTION	.875000
MONTHS IN FIRST LINE	1.00	FINAL NET GAS FRACTION	.875000

---------PRESENT WORTH PROFILE---------

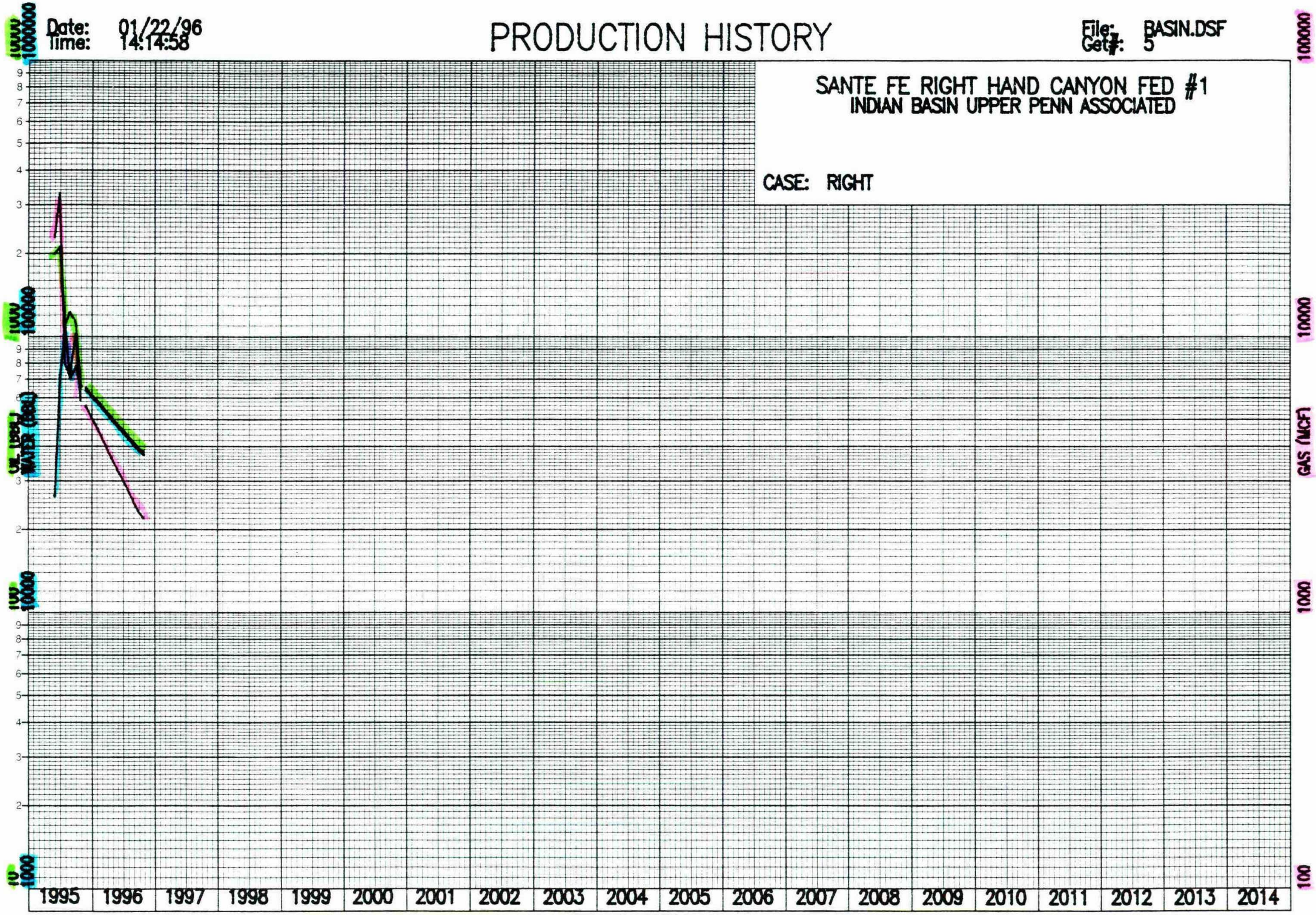
DISC RATE	PW OF NET BTAX, M$	DISC RATE	PW OF NET BTAX, M$
.0	74.336	30.0	66.366
2.0	73.681	35.0	65.336
5.0	72.739	40.0	64.369
8.0	71.842	45.0	63.459
10.0	71.266	50.0	62.600
12.0	70.710	60.0	61.021
15.0	69.905	70.0	59.600
18.0	69.136	80.0	58.313
20.0	68.643	90.0	57.141
25.0	67.465	100.0	56.067

WATER GROSS PROD. (MU)	391.021	WATER NET PRODUCTION (MU)	342.144	WATER NET REVENUES (M$)	.000

PRODUCTION HISTORY

Date: 01/22/96
Time: 14:14:58

File: BASIN.DSF
Get#: 5



CUMULATIVE OIL (BBL)= 7633.

DPC & A

YEARS

SL 20 3 3

CUMULATIVE GAS (MCF)= 81543.

OGRE(R) V1.40 BTAX
FILE NAME: BASIN (5)
CASE NAME: RIGHT
CMD NAME: STDA1340(300)

DATA REPORT

DATE: 01/22/96
TIME: 14:14:02

101 SANTE FE RIGHT HAND CANYON FED #1
102 INDIAN BASIN UPPER PENN ASSOCIATED

117 CASE NONE
120 12 95 12 1 1 96 10 1

	W.I. FRACTION	OP. COST ($/W/MO)	OP. COST ($/MO.)	ADV. TAX (PCT)	MAJOR PH. NAME	PROD DATE (MO/DY/YR)
210	1.00000000	.00	7500.00	.000	OIL	12/ 1/95

	PHASE NAME	CUM PROD (MUNITS)	REV. INT FRACTION	PRICE ($/UNIT)	SEV. TAX (PCT)	NO. OF WELLS	RATIO TO MAJOR PH
221	OIL	7.633	.87500000	17.500	6.000	1.0	
222	GAS	81.543	.87500000	1.500	6.000	.0	
223	WATER	391.311	.87500000	.000	.000	.0	

	PH. NAME	CURVE TP		DECLINE%	QI RATE	QT RATE	CUM. LIMIT		(M OR Y)	CALC VALUE	
410	OIL	EXP		45.000	622.000	X	.962	YRS	M		
CALC	OIL	EXP	END=	45.000	622.000	349.961	.962	YRS	M	13.093	MBBL
412	GAS	EXP		65.000	5484.000	X	.962	YRS	M		
CALC	GAS	EXP	END=	65.000	5484.000	1997.519	.962	YRS	M	121.395	MMCF
414	WATER	EXP		45.000	61217.000	X	.962	YRS	M		
CALC	WATER	EXP	END=	45.000	61217.000	34442.998	.962	YRS	M	928.728	M-UNITS

SANTE FE RIGHT HAND CANYON FED #1
INDIAN BASIN UPPER PENN ASSOCIATED

DATE: 01/22/96
TIME: 14:14:02
FILE: BASIN
GET#: 5

RESERVES AND ECONOMICS

AS OF JANUARY 1, 1996

-END- MO-YR	---GROSS PRODUCTION--- OIL, MBBL	GAS, MMCF	----NET PRODUCTION---- OIL, MBBL	GAS, MMCF	--PRICES--- OIL $/B	GAS $/M	--------OPERATIONS, M$-------- NET OPER REVENUES	SEV+ADV TAXES	NET OPER EXPENSES	CAPITAL COSTS, M$	CASH FLOW BTAX, M$	10.00 PCT CUM. DISC BTAX, M$
12-95	.607	5.251	.531	4.595	17.50	1.50	16.186	.972	7.500	.000	7.714	7.745
12-96	4.853	34.601	4.246	30.276	17.50	1.50	119.719	7.183	79.080	.000	33.456	39.838
12-97												
12-98												
12-99												
12- 0												
12- 1												
12- 2												
12- 3												
12- 4												
12- 5												
12- 6												
12- 7												
12- 8												
12- 9												
12-10												
12-11												
12-12												
12-13												
12-14												
S TOT	5.460	39.852	4.777	34.871	17.50	1.50	135.905	8.155	86.580	.000	41.170	39.838
REM.	.000	.000	.000	.000	.00	.00	.000	.000	.000	.000	.000	39.838
TOTAL	5.460	39.852	4.777	34.871	17.50	1.50	135.905	8.155	86.580	.000	41.170	39.838

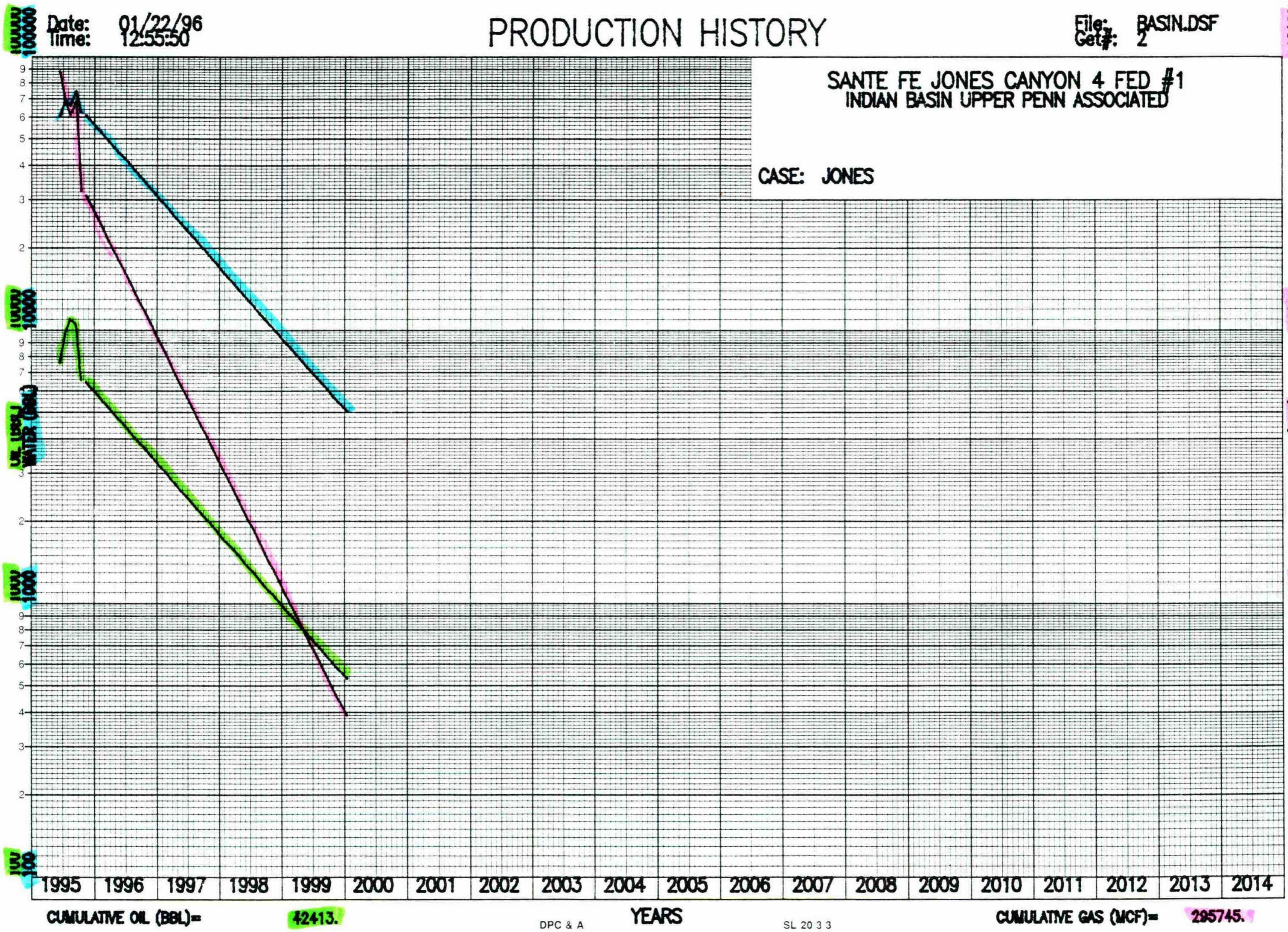
CUM.	7.633	81.543	NET OIL REVENUES (M$)	83.598
			NET GAS REVENUES (M$)	52.307
ULT.	13.093	121.395	TOTAL REVENUES (M$)	135.905

BTAX RATE OF RETURN (PCT)	100.00	PROJECT LIFE (YEARS)	.962
BTAX PAYOUT YEARS	.00	DISCOUNT RATE (PCT)	10.000
BTAX PAYOUT YEARS (DISC)	.00	GROSS OIL WELLS	1.000
BTAX NET INCOME/INVEST	.00	GROSS GAS WELLS	.000
BTAX NET INCOME/INVEST (DISC)	.00	GROSS WELLS	1.000
INITIAL W.I. FRACTION	1.000000	INITIAL NET OIL FRACTION	.875000
FINAL W.I. FRACTION	1.000000	FINAL NET OIL FRACTION	.875000
PRODUCTION START DATE	12- 1-95	INITIAL NET GAS FRACTION	.875000
MONTHS IN FIRST LINE	1.00	FINAL NET GAS FRACTION	.875000

---------PRESENT WORTH PROFILE---------

DISC RATE	PW OF NET BTAX, M$	DISC RATE	PW OF NET BTAX, M$
.0	41.170	30.0	37.679
2.0	40.887	35.0	37.219
5.0	40.479	40.0	36.787
8.0	40.089	45.0	36.378
10.0	39.838	50.0	35.991
12.0	39.595	60.0	35.275
15.0	39.242	70.0	34.627
18.0	38.904	80.0	34.036
20.0	38.687	90.0	33.495
25.0	38.166	100.0	32.997

WATER GROSS PROD. (MU) 537.417 WATER NET PRODUCTION (MU) 470.240 WATER NET REVENUES (M$) .000



Date: 01/22/96
Time: 12:55:50
PRODUCTION HISTORY
File: BASIN.DSF
Get#: 2
SANTE FE JONES CANYON 4 FED #1
INDIAN BASIN UPPER PENN ASSOCIATED
CASE: JONES
OIL (BBL)
WATER (BBL)
GAS (MCF)
100000
10000
1000
100
1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014
YEARS
CUMULATIVE OIL (BBL)= 42413.
CUMULATIVE GAS (MCF)= 295745.
DPC & A
SL 20 3 3

OGRE(R) V1.40 BTAX
FILE NAME: BASIN (2)
CASE NAME: JONES
CMD NAME: STDA0850(300)

DATA REPORT

DATE: 01/22/96
TIME: 13:09:12

101 SANTE FE JONES CANYON 4 FED #1
102 INDIAN BASIN UPPER PENN ASSOCIATED

117 CASE NONE
120 12 95 12 1 1 96 10 1

	W.I. FRACTION	OP. COST ($/W/MO)	OP. COST ($/MO.)	ADV. TAX (PCT)	MAJOR PH. NAME	PROD DATE (MO/DY/YR)
210	1.00000000	.00	7500.00	.000	OIL	12/ 1/95

	PHASE NAME	CUM PROD (MUNITS)	REV. INT FRACTION	PRICE ($/UNIT)	SEV. TAX (PCT)	NO. OF WELLS	RATIO TO MAJOR PH
221	OIL	42.413	.87500000	17.500	6.000	1.0	
222	GAS	295.745	.87500000	1.500	6.000	.0	
223	WATER	310.226	.87500000	.000	.000	.0	

	PH. NAME	CURVE TP		DECLINE%	QI RATE	QT RATE	CUM. LIMIT		(M OR Y)	CALC VALUE	
410	OIL	EXP		45.000	6153.000	X	4.230	YRS	M		
CALC	OIL	EXP	END=	45.000	6153.000	490.706	4.230	YRS	M	156.069	MBBL
412	GAS	EXP		65.000	30003.000	X	4.230	YRS	M		
CALC	GAS	EXP	END=	65.000	30003.000	353.649	4.230	YRS	M	634.652	MMCF
414	WATER	EXP		45.000	57955.000	X	4.230	YRS	M		
CALC	WATER	EXP	END=	45.000	57955.000	4621.948	4.230	YRS	M	1380.746	M-UNITS

SANTE FE JONES CANYON 4 FED #1
INDIAN BASIN UPPER PENN ASSOCIATED

DATE: 01/22/96
TIME: 13:09:12
FILE: BASIN
GET#: 2

R E S E R V E S   A N D   E C O N O M I C S

AS OF JANUARY 1, 1996

-END-	---GROSS PRODUCTION---		----NET PRODUCTION----		--PRICES---		--------OPERATIONS, M$--------					10.00 PCT
MO-YR	OIL, MBBL	GAS, MMCF	OIL, MBBL	GAS, MMCF	OIL $/B	GAS $/M	NET OPER REVENUES	SEV+ADV TAXES	NET OPER EXPENSES	CAPITAL COSTS, M$	CASH FLOW BTAX, M$	CUM. DISC BTAX, M$
12-95	6.002	28.728	5.252	25.137	17.50	1.50	129.616	7.777	7.500	.000	114.339	114.794
12-96	52.877	204.244	46.267	178.714	17.50	1.50	1077.744	64.664	90.000	.000	923.080	995.249
12-97	29.082	71.485	25.447	62.549	17.50	1.50	539.147	32.348	90.000	.000	416.799	1356.661
12-98	15.995	25.020	13.996	21.893	17.50	1.50	277.770	16.666	90.000	.000	171.104	1491.540
12-99	8.797	8.757	7.697	7.662	17.50	1.50	146.191	8.772	90.000	.000	47.419	1525.521
12- 0	.903	.673	.790	.589	17.50	1.50	14.709	.883	13.200	.000	.626	1525.946
12- 1												
12- 2												
12- 3												
12- 4												
12- 5												
12- 6												
12- 7												
12- 8												
12- 9												
12-10												
12-11												
12-12												
12-13												
12-14												
S TOT	113.656	338.907	99.449	296.544	17.50	1.50	2185.177	131.110	380.700	.000	1673.367	1525.946
REM.	.000	.000	.000	.000	.00	.00	.000	.000	.000	.000	.000	1525.946
TOTAL	113.656	338.907	99.449	296.544	17.50	1.50	2185.177	131.110	380.700	.000	1673.367	1525.946

	OIL, MBBL	GAS, MMCF
CUM.	42.413	295.745
ULT.	156.069	634.652

NET OIL REVENUES (M$)	1740.359
NET GAS REVENUES (M$)	444.818
TOTAL REVENUES (M$)	2185.177

BTAX RATE OF RETURN (PCT)	100.00
BTAX PAYOUT YEARS	.00
BTAX PAYOUT YEARS (DISC)	.00
BTAX NET INCOME/INVEST	.00
BTAX NET INCOME/INVEST (DISC)	.00
INITIAL W.I. FRACTION	1.000000
FINAL W.I. FRACTION	1.000000
PRODUCTION START DATE	12- 1-95
MONTHS IN FIRST LINE	1.00

PROJECT LIFE (YEARS)	4.230
DISCOUNT RATE (PCT)	10.000
GROSS OIL WELLS	1.000
GROSS GAS WELLS	.000
GROSS WELLS	1.000
INITIAL NET OIL FRACTION	.875000
FINAL NET OIL FRACTION	.875000
INITIAL NET GAS FRACTION	.875000
FINAL NET GAS FRACTION	.875000

---------PRESENT WORTH PROFILE---------

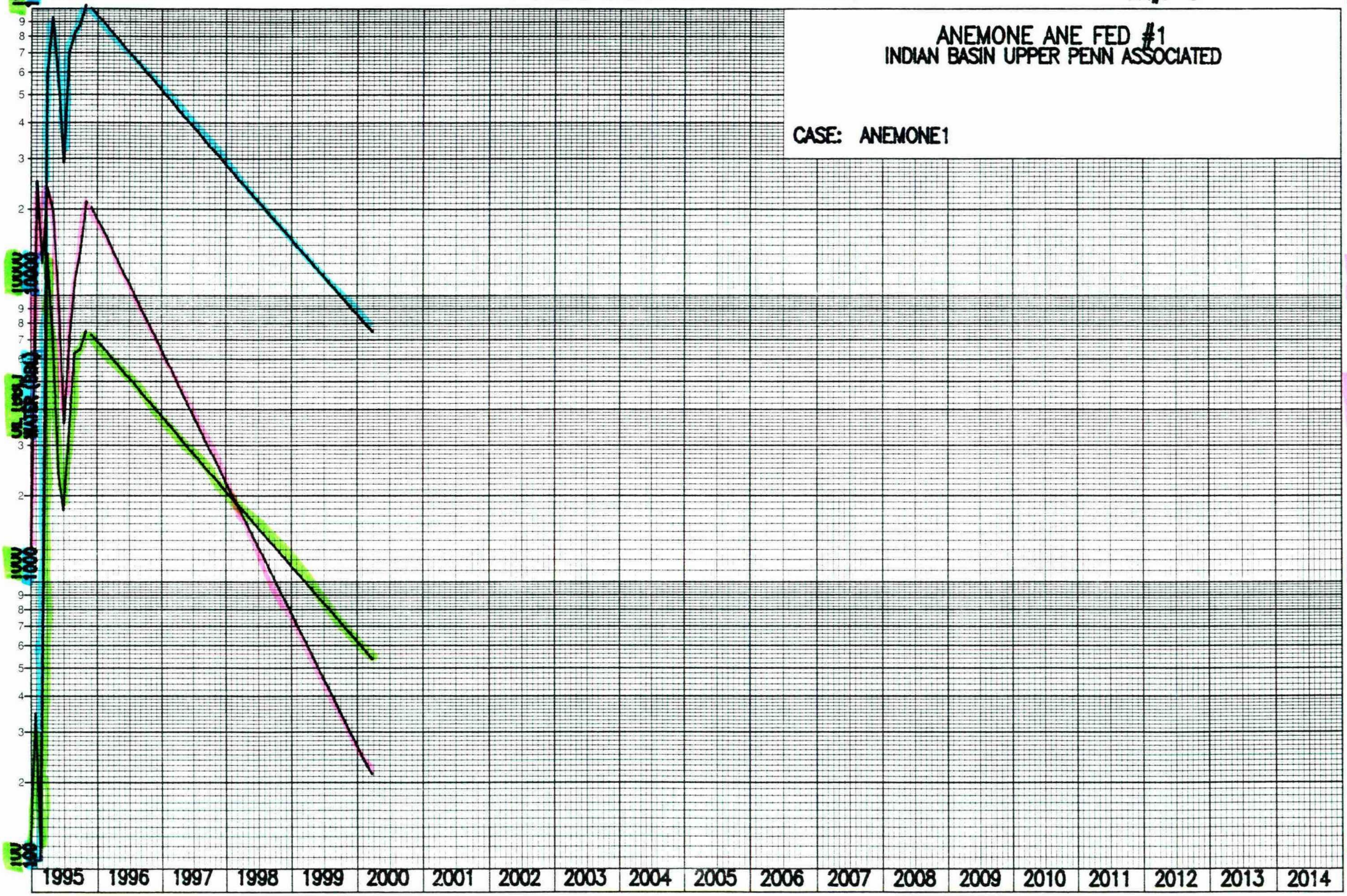
DISC RATE	PW OF NET BTAX, M$	DISC RATE	PW OF NET BTAX, M$
.0	1673.367	30.0	1317.774
2.0	1640.703	35.0	1277.885
5.0	1594.881	40.0	1241.551
8.0	1552.487	45.0	1208.313
10.0	1525.946	50.0	1177.781
12.0	1500.668	60.0	1123.602
15.0	1464.928	70.0	1076.970
18.0	1431.572	80.0	1036.379
20.0	1410.544	90.0	1000.698
25.0	1361.768	100.0	969.064

WATER GROSS PROD. (MU) 1070.520 — WATER NET PRODUCTION (MU) 936.705 — WATER NET REVENUES (M$) .000

Date: 01/22/96
Time: 15:07:51

PRODUCTION HISTORY

File: BASIN.DSF
Get#: 8



CUMULATIVE OIL (BBL)= 46274.

DPC & A

SL 20 3 3

CUMULATIVE GAS (MCF)= 139721.

OGRE(R) V1.40 BTAX
FILE NAME: BASIN (8)
CASE NAME: ANEMONE1
CMD NAME: STDA0628(300)

DATA REPORT

DATE: 01/22/96
TIME: 15:06:56

101 ANEMONE ANE FED #1
102 INDIAN BASIN UPPER PENN ASSOCIATED

117 CASE NONE
120 12 95 12 1 1 96 10 1

	W.I. FRACTION	OP. COST ($/W/MO)	OP. COST ($/MO.)	ADV. TAX (PCT)	MAJOR PH. NAME	PROD DATE (MO/DY/YR)
210	1.00000000	.00	7500.00	.000	OIL	12/ 1/95

	PHASE NAME	CUM PROD (MUNITS)	REV. INT FRACTION	PRICE ($/UNIT)	SEV. TAX (PCT)	NO. OF WELLS	RATIO TO MAJOR PH
221	OIL	46.274	.87500000	17.500	6.000	1.0	
222	GAS	139.721	.87500000	1.500	6.000	.0	
223	WATER	537.429	.87500000	.000	.000	.0	

	PH. NAME	CURVE TP		DECLINE%	QI RATE	QT RATE	CUM. LIMIT		(M OR Y)	CALC VALUE	
410	OIL	EXP		45.000	6958.000	505.000	X	X	M		
CALC	OIL	EXP	END=	45.000	6958.000	505.000	4.388	YRS	M	175.801	MBBL
412	GAS	EXP		65.000	19767.000	X	4.388	YRS	M		
CALC	GAS	EXP	END=	65.000	19767.000	197.384	4.388	YRS	M	363.412	MMCF
414	WATER	EXP		45.000	94923.000	X	4.388	YRS	M		
CALC	WATER	EXP	END=	45.000	94923.000	6887.838	4.388	YRS	M	2304.503	M-UNITS

ANEMONE ANE FED #1
INDIAN BASIN UPPER PENN ASSOCIATED

DATE: 01/22/96
TIME: 15:06:56
FILE: BASIN
GET#: 8

RESERVES AND ECONOMICS

AS OF JANUARY 1, 1996

-END- MO-YR	---GROSS PRODUCTION--- OIL, MBBL	GAS, MMCF	----NET PRODUCTION---- OIL, MBBL	GAS, MMCF	--PRICES--- OIL $/B	GAS $/M	--------OPERATIONS, M$-------- NET OPER REVENUES	SEV+ADV TAXES	NET OPER EXPENSES	CAPITAL COSTS, M$	CASH FLOW BTAX, M$	10.00 PCT CUM. DISC BTAX, M$
12-95	6.788	18.927	5.940	16.561	17.50	1.50	128.792	7.728	7.500	.000	113.564	114.016
12-96	59.794	134.563	52.320	117.743	17.50	1.50	1092.215	65.533	90.000	.000	936.682	1007.445
12-97	32.887	47.097	28.776	41.210	17.50	1.50	565.395	33.924	90.000	.000	441.471	1390.250
12-98	18.087	16.484	15.826	14.424	17.50	1.50	298.591	17.915	90.000	.000	190.676	1540.557
12-99	9.949	5.769	8.705	5.048	17.50	1.50	159.910	9.594	90.000	.000	60.316	1583.781
12- 0	2.022	.851	1.769	.745	17.50	1.50	32.076	1.924	27.420	.000	2.732	1585.620
12- 1												
12- 2												
12- 3												
12- 4												
12- 5												
12- 6												
12- 7												
12- 8												
12- 9												
12-10												
12-11												
12-12												
12-13												
12-14												
S TOT	129.527	223.691	113.336	195.731	17.50	1.50	2276.979	136.618	394.920	.000	1745.441	1585.620
REM.	.000	.000	.000	.000	.00	.00	.000	.000	.000	.000	.000	1585.620
TOTAL	129.527	223.691	113.336	195.731	17.50	1.50	2276.979	136.618	394.920	.000	1745.441	1585.620

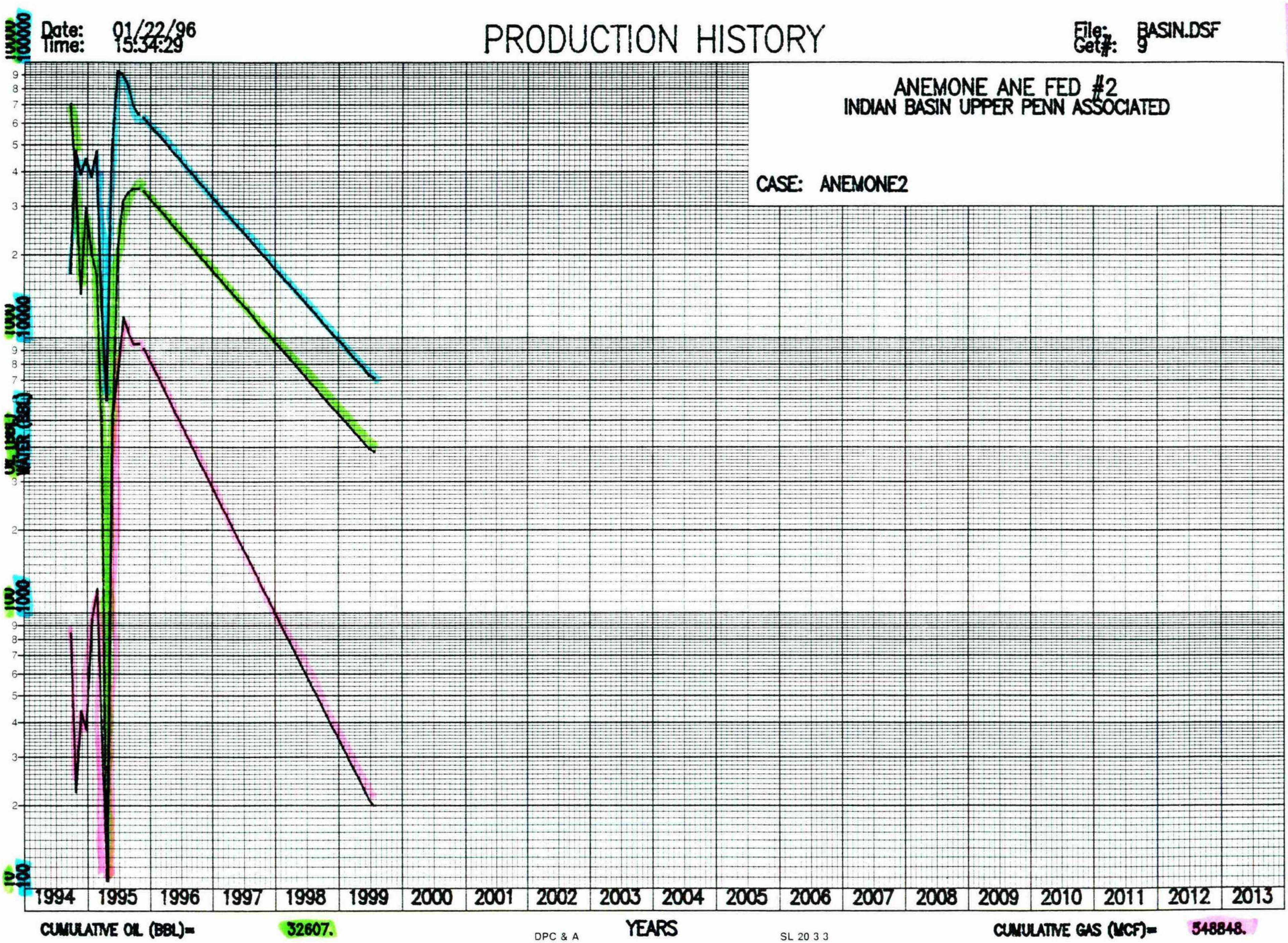
CUM.	46.274	139.721	NET OIL REVENUES (M$)	1983.381
			NET GAS REVENUES (M$)	293.598
ULT.	175.801	363.412	TOTAL REVENUES (M$)	2276.979

BTAX RATE OF RETURN (PCT)	100.00	PROJECT LIFE (YEARS)	4.388
BTAX PAYOUT YEARS	.00	DISCOUNT RATE (PCT)	10.000
BTAX PAYOUT YEARS (DISC)	.00	GROSS OIL WELLS	1.000
BTAX NET INCOME/INVEST	.00	GROSS GAS WELLS	.000
BTAX NET INCOME/INVEST (DISC)	.00	GROSS WELLS	1.000
INITIAL W.I. FRACTION	1.000000	INITIAL NET OIL FRACTION	.875000
FINAL W.I. FRACTION	1.000000	FINAL NET OIL FRACTION	.875000
PRODUCTION START DATE	12- 1-95	INITIAL NET GAS FRACTION	.875000
MONTHS IN FIRST LINE	1.00	FINAL NET GAS FRACTION	.875000

---------PRESENT WORTH PROFILE---------

DISC RATE	PW OF NET BTAX, M$	DISC RATE	PW OF NET BTAX, M$
.0	1745.441	30.0	1361.702
2.0	1709.947	35.0	1319.048
5.0	1660.231	40.0	1280.267
8.0	1614.322	45.0	1244.851
10.0	1585.620	50.0	1212.376
12.0	1558.316	60.0	1154.875
15.0	1519.767	70.0	1105.516
18.0	1483.842	80.0	1062.653
20.0	1461.224	90.0	1025.057
25.0	1408.843	100.0	991.787

WATER GROSS PROD. (MU) 1767.074 WATER NET PRODUCTION (MU) 1546.190 WATER NET REVENUES (M$) .000



Date: 01/22/96
Time: 15:34:29
PRODUCTION HISTORY
File: BASIN.DSF
Get#: 9
ANEMONE ANE FED #2
INDIAN BASIN UPPER PENN ASSOCIATED
CASE: ANEMONE2
OIL (BBL)
WATER (BBL)
GAS (MCF)
100000
10000
1000
100
1000000
100000
10000
1000
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
YEARS
CUMULATIVE OIL (BBL)= 32607.
CUMULATIVE GAS (MCF)= 548848.
DPC & A
SL 20 3 3

OGRE(R) V1.40 BTAX
FILE NAME: BASIN (9)
CASE NAME: ANEMONE2
CMD NAME: STDG3032(300)

DATA REPORT

DATE: 01/22/96
TIME: 15:31:00

101 ANEMONE ANE FED #2
102 INDIAN BASIN UPPER PENN ASSOCIATED

117 CASE NONE
120 12 95 12 1 1 96 10 1

	W.I. FRACTION	OP. COST ($/W/MO)	OP. COST ($/MO.)	ADV. TAX (PCT)	MAJOR PH. NAME	PROD DATE (MO/DY/YR)
210	1.00000000	.00	7500.00	.000	OIL	12/ 1/95

	PHASE NAME	CUM PROD (MUNITS)	REV. INT FRACTION	PRICE ($/UNIT)	SEV. TAX (PCT)	NO. OF WELLS	RATIO TO MAJOR PH
221	OIL	32.607	.87500000	17.500	6.000	1.0	
222	GAS	548.848	.87500000	1.500	6.000	.0	
223	WATER	652.281	.87500000	.000	.000	.0	

	PH. NAME	CURVE TP		DECLINE%	QI RATE	QT RATE	CUM. LIMIT		(M OR Y)	CALC VALUE	
410	OIL	EXP		45.000	3236.000	X	3.675	YRS	M		
CALC	OIL	EXP	END=	45.000	3236.000	359.618	3.675	YRS	M	90.343	MBBL
412	GAS	EXP		65.000	89259.000	X	3.675	YRS	M		
CALC	GAS	EXP	END=	65.000	89259.000	1884.092	3.675	YRS	M	1547.588	MMCF
414	WATER	EXP		45.000	59886.000	X	3.675	YRS	M		
CALC	WATER	EXP	END=	45.000	59886.000	6655.155	3.675	YRS	M	1720.750	M-UNITS

ANEMONE ANE FED #2
INDIAN BASIN UPPER PENN ASSOCIATED

DATE: 01/22/96
TIME: 15:31:00
FILE: BASIN
GET#: 9

R E S E R V E S   A N D   E C O N O M I C S

AS OF JANUARY 1, 1996

-END-	---GROSS PRODUCTION---		----NET PRODUCTION----		--PRICES---		--------OPERATIONS, M$--------					10.00 PCT
MO-YR	OIL, MBBL	GAS, MMCF	OIL, MBBL	GAS, MMCF	OIL $/B	GAS $/M	NET OPER REVENUES	SEV+ADV TAXES	NET OPER EXPENSES	CAPITAL COSTS, M$	CASH FLOW BTAX, M$	CUM. DISC BTAX, M$
12-95	3.157	85.466	2.762	74.783	17.50	1.50	160.510	9.631	7.500	.000	143.379	143.950
12-96	27.809	607.626	24.333	531.673	17.50	1.50	1223.338	73.401	90.000	.000	1059.937	1154.943
12-97	15.294	212.670	13.382	186.086	17.50	1.50	513.314	30.799	90.000	.000	392.515	1495.298
12-98	8.413	74.434	7.361	65.130	17.50	1.50	226.513	13.591	90.000	.000	122.922	1592.195
12-99	3.063	18.544	2.680	16.226	17.50	1.50	71.239	4.274	53.250	.000	13.715	1602.214
12- 0												
12- 1												
12- 2												
12- 3												
12- 4												
12- 5												
12- 6												
12- 7												
12- 8												
12- 9												
12-10												
12-11												
12-12												
12-13												
12-14												
S TOT	57.736	998.740	50.518	873.898	17.50	1.50	2194.914	131.696	330.750	.000	1732.468	1602.214
REM.	.000	.000	.000	.000	.00	.00	.000	.000	.000	.000	.000	1602.214
TOTAL	57.736	998.740	50.518	873.898	17.50	1.50	2194.914	131.696	330.750	.000	1732.468	1602.214

	OIL	GAS
CUM.	32.607	548.848
ULT.	90.343	1547.588

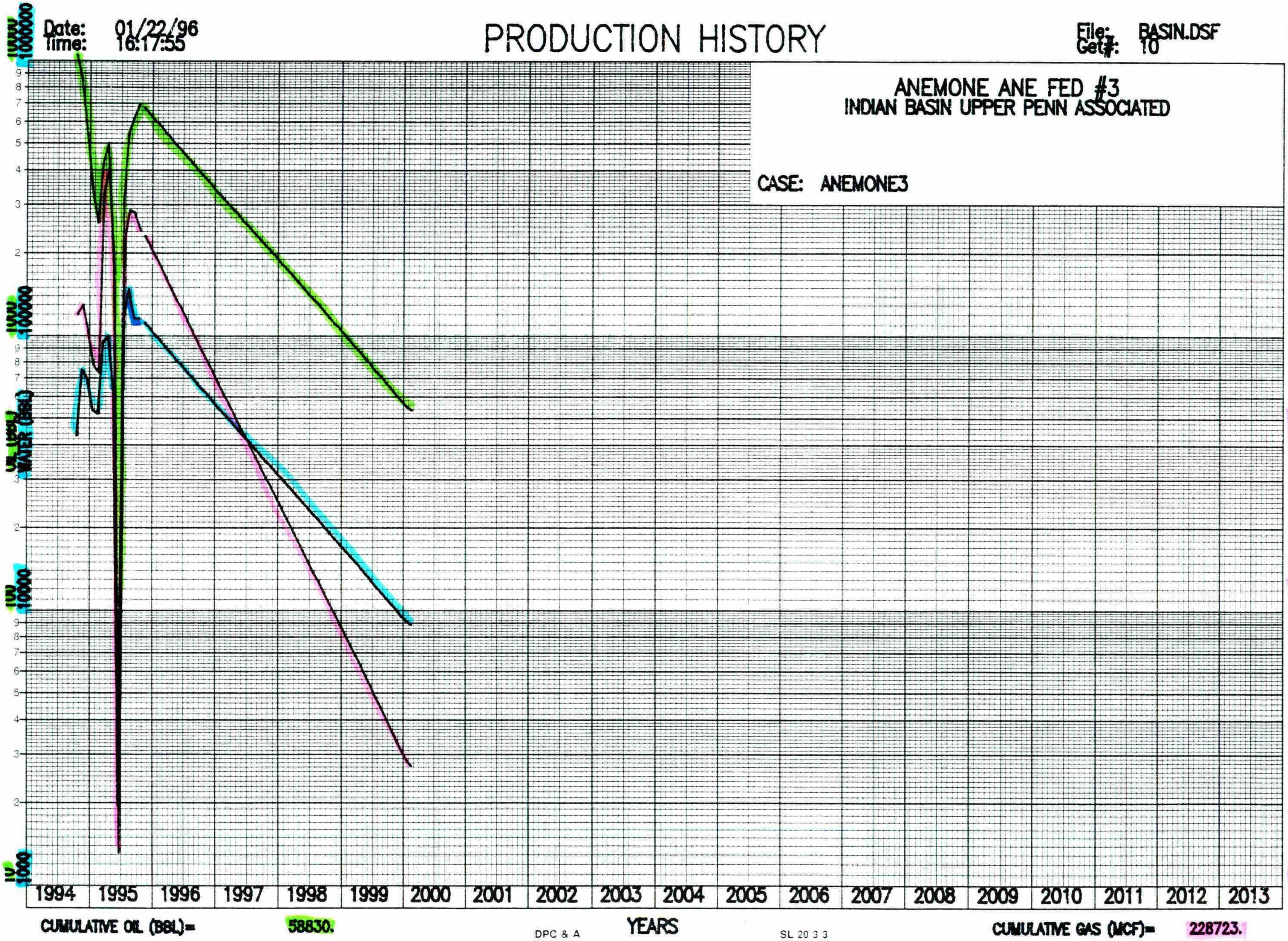
NET OIL REVENUES (M$)	884.066
NET GAS REVENUES (M$)	1310.848
TOTAL REVENUES (M$)	2194.914

BTAX RATE OF RETURN (PCT)	100.00	PROJECT LIFE (YEARS)	3.675
BTAX PAYOUT YEARS	.00	DISCOUNT RATE (PCT)	10.000
BTAX PAYOUT YEARS (DISC)	.00	GROSS OIL WELLS	1.000
BTAX NET INCOME/INVEST	.00	GROSS GAS WELLS	.000
BTAX NET INCOME/INVEST (DISC)	.00	GROSS WELLS	1.000
INITIAL W.I. FRACTION	1.000000	INITIAL NET OIL FRACTION	.875000
FINAL W.I. FRACTION	1.000000	FINAL NET OIL FRACTION	.875000
PRODUCTION START DATE	12- 1-95	INITIAL NET GAS FRACTION	.875000
MONTHS IN FIRST LINE	1.00	FINAL NET GAS FRACTION	.875000

---------PRESENT WORTH PROFILE---------

DISC RATE	PW OF NET BTAX, M$	DISC RATE	PW OF NET BTAX, M$
.0	1732.468	30.0	1412.585
2.0	1703.877	35.0	1375.416
5.0	1663.513	40.0	1341.309
8.0	1625.899	45.0	1309.895
10.0	1602.214	50.0	1280.855
12.0	1579.557	60.0	1228.880
15.0	1547.356	70.0	1183.673
18.0	1517.120	80.0	1143.960
20.0	1497.967	90.0	1108.763
25.0	1453.258	100.0	1077.327

WATER GROSS PROD. (MU) 1068.469 WATER NET PRODUCTION (MU) 934.911 WATER NET REVENUES (M$) .000



Date: 01/22/96
Time: 16:17:55
PRODUCTION HISTORY
File: BASIN.DSF
Get#: 10
ANEMONE ANE FED #3
INDIAN BASIN UPPER PENN ASSOCIATED
CASE: ANEMONE3
OIL (BBL)
WATER (BBL)
GAS (MCF)
10000
1000000
1000
100000
100
10000
10
1000
100000
10000
1000
100
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
YEARS
CUMULATIVE OIL (BBL)= 58830.
DPC & A
SL 20 3 3
CUMULATIVE GAS (MCF)= 228723.

OGRE(R) V1.40 BTAX
FILE NAME: BASIN (10)
CASE NAME: ANEMONE3
CMD NAME: STDA1543(300)

DATA REPORT

DATE: 01/22/96
TIME: 16:16:07

101 ANEMONE ANE FED #3
102 INDIAN BASIN UPPER PENN ASSOCIATED

117 CASE NONE
120 12 95 12 1 1 96 10 1

	W.I. FRACTION	OP. COST ($/W/MO)	OP. COST ($/MO.)	ADV. TAX (PCT)	MAJOR PH. NAME	PROD DATE (MO/DY/YR)
210	1.00000000	.00	7500.00	.000	OIL	12/ 1/95

	PHASE NAME	CUM PROD (MUNITS)	REV. INT FRACTION	PRICE ($/UNIT)	SEV. TAX (PCT)	NO. OF WELLS	RATIO TO MAJOR PH
221	OIL	58.830	.87500000	17.500	6.000	1.0	
222	GAS	228.723	.87500000	1.500	.000	.0	
223	WATER	975.848	.87500000	.000	.000	.0	

	PH. NAME	CURVE TP		DECLINE%	QI RATE	QT RATE	CUM. LIMIT		(M OR Y)	CALC VALUE	
410	OIL	EXP		45.000	6400.000	497.476	X	X	M		
CALC	OIL	EXP	END=	45.000	6400.000	497.476	4.273	YRS	M	177.308	MBBL
412	GAS	EXP		65.000	22500.000	X	4.273	YRS	M		
CALC	GAS	EXP	END=	65.000	22500.000	253.504	4.273	YRS	M	483.012	MMCF
414	WATER	EXP		45.000	106522.000	X	4.273	YRS	M		
CALC	WATER	EXP	END=	45.000	106522.000	8279.595	4.273	YRS	M	2947.805	M-UNITS

ANEMONE ANE FED #3
INDIAN BASIN UPPER PENN ASSOCIATED

DATE: 01/22/96
TIME: 16:16:07
FILE: BASIN
GET#: 10

RESERVES AND ECONOMICS

AS OF JANUARY 1, 1996

-END-	---GROSS PRODUCTION---		----NET PRODUCTION----		--PRICES---		--------OPERATIONS, M$--------					10.00 PCT
MO-YR	OIL, MBBL	GAS, MMCF	OIL, MBBL	GAS, MMCF	OIL $/B	GAS $/M	NET OPER REVENUES	SEV+ADV TAXES	NET OPER EXPENSES	CAPITAL COSTS, M$	CASH FLOW BTAX, M$	CUM. DISC BTAX, M$
12-95	6.243	21.544	5.463	18.851	17.50	1.50	123.880	5.736	7.500	.000	110.644	111.085
12-96	54.999	153.168	48.124	134.022	17.50	1.50	1043.203	50.530	90.000	.000	902.673	972.076
12-97	30.250	53.608	26.469	46.907	17.50	1.50	533.569	27.792	90.000	.000	415.777	1332.601
12-98	16.637	18.763	14.557	16.418	17.50	1.50	279.375	15.285	90.000	.000	174.090	1469.833
12-99	9.150	6.567	8.006	5.746	17.50	1.50	148.724	8.406	90.000	.000	50.318	1505.892
12- 0	1.199	.639	1.049	.559	17.50	1.50	19.197	1.101	17.070	.000	1.026	1506.586
12- 1												
12- 2												
12- 3												
12- 4												
12- 5												
12- 6												
12- 7												
12- 8												
12- 9												
12-10												
12-11												
12-12												
12-13												
12-14												
S TOT	118.478	254.289	103.668	222.503	17.50	1.50	2147.948	108.850	384.570	.000	1654.528	1506.586
REM.	.000	.000	.000	.000	.00	.00	.000	.000	.000	.000	.000	1506.586
TOTAL	118.478	254.289	103.668	222.503	17.50	1.50	2147.948	108.850	384.570	.000	1654.528	1506.586

CUM.	58.830	228.723
ULT.	177.308	483.012

NET OIL REVENUES (M$)	1814.192
NET GAS REVENUES (M$)	333.756
TOTAL REVENUES (M$)	2147.948

BTAX RATE OF RETURN (PCT)	100.00
BTAX PAYOUT YEARS	.00
BTAX PAYOUT YEARS (DISC)	.00
BTAX NET INCOME/INVEST	.00
BTAX NET INCOME/INVEST (DISC)	.00
INITIAL W.I. FRACTION	1.000000
FINAL W.I. FRACTION	1.000000
PRODUCTION START DATE	12- 1-95
MONTHS IN FIRST LINE	1.00

PROJECT LIFE (YEARS)	4.273
DISCOUNT RATE (PCT)	10.000
GROSS OIL WELLS	1.000
GROSS GAS WELLS	.000
GROSS WELLS	1.000
INITIAL NET OIL FRACTION	.875000
FINAL NET OIL FRACTION	.875000
INITIAL NET GAS FRACTION	.875000
FINAL NET GAS FRACTION	.875000

---------PRESENT WORTH PROFILE---------

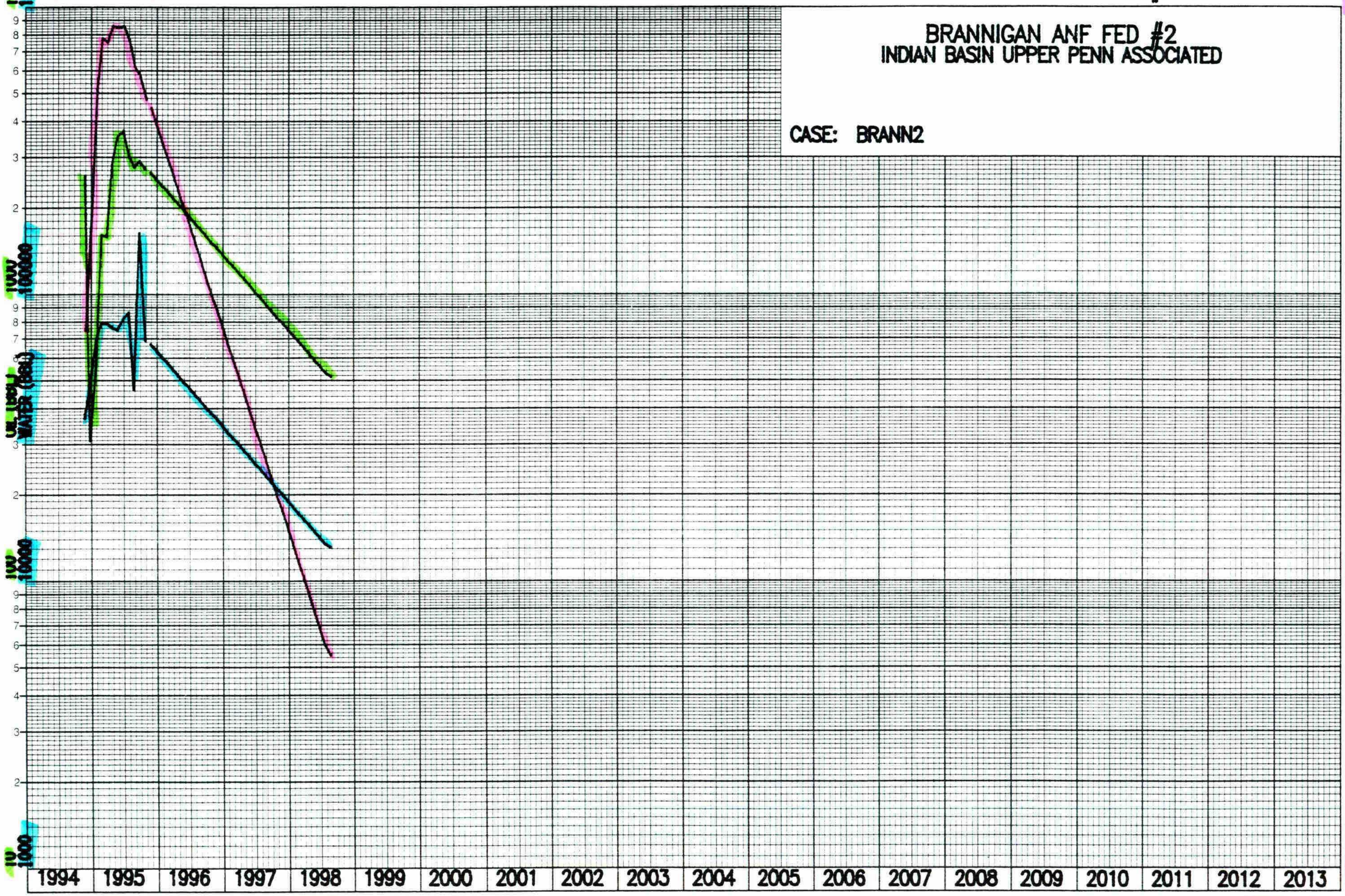
DISC RATE	PW OF NET BTAX, M$	DISC RATE	PW OF NET BTAX, M$
.0	1654.528	30.0	1298.246
2.0	1621.723	35.0	1258.410
5.0	1575.726	40.0	1222.147
8.0	1533.199	45.0	1188.992
10.0	1506.586	50.0	1158.558
12.0	1481.250	60.0	1104.595
15.0	1445.448	70.0	1058.195
18.0	1412.052	80.0	1017.840
20.0	1391.006	90.0	982.396
25.0	1342.217	100.0	950.995

WATER GROSS PROD. (MU) 1971.957 WATER NET PRODUCTION (MU) 1725.462 WATER NET REVENUES (M$) .000

Date: 01/22/96
Time: 16:30:59

PRODUCTION HISTORY

File: BASIN.DSF
Get#: 11



CUMULATIVE OIL (BBL)= 26187.

DPC & A

YEARS

SL 20 3 3

CUMULATIVE GAS (MCF)= 678062.

OGRE(R) V1.40 BTAX
FILE NAME: BASIN (11)
CASE NAME: BRANN2
CMD NAME: STDA2947(300)

DATA REPORT

DATE: 01/22/96
TIME: 16:30:09

101 BRANNIGAN ANF FED #2
102 INDIAN BASIN UPPER PENN ASSOCIATED

117 CASE NONE
120 12 95 12 1 1 96 10 1

	W.I. FRACTION	OP. COST ($/W/MO)	OP. COST ($/MO.)	ADV. TAX (PCT)	MAJOR PH. NAME	PROD DATE (MO/DY/YR)
210	1.00000000	.00	7500.00	.000	OIL	12/ 1/95

	PHASE NAME	CUM PROD (MUNITS)	REV. INT FRACTION	PRICE ($/UNIT)	SEV. TAX (PCT)	NO. OF WELLS	RATIO TO MAJOR PH
221	OIL	26.187	.87500000	17.500	6.000	1.0	
222	GAS	678.062	.87500000	1.500	6.000	.0	
223	WATER	855.187	.87500000	.000	.000	.0	

	PH. NAME	CURVE TP		DECLINE%	QI RATE	QT RATE	CUM. LIMIT		(M OR Y)	CALC VALUE	
410	OIL	EXP		45.000	2526.000	X	2.780	YRS	M		
CALC	OIL	EXP	END=	45.000	2526.000	479.338	2.780	YRS	M	67.268	MBBL
412	GAS	EXP		80.000	44268.000	X	2.780	YRS	M		
CALC	GAS	EXP	END=	80.000	44268.000	504.607	2.780	YRS	M	1004.363	MMCF
414	WATER	EXP		45.000	64292.000	X	2.780	YRS	M		
CALC	WATER	EXP	END=	45.000	64292.000	12200.151	2.780	YRS	M	1900.793	M-UNITS

BRANNIGAN ANF FED #2
INDIAN BASIN UPPER PENN ASSOCIATED

DATE: 01/22/96
TIME: 16:30:09
FILE: BASIN
GET#: 11

R E S E R V E S   A N D   E C O N O M I C S

AS OF JANUARY 1, 1996

-END- MO-YR	---GROSS PRODUCTION--- OIL, MBBL	GAS, MMCF	----NET PRODUCTION---- OIL, MBBL	GAS, MMCF	--PRICES--- OIL $/B	GAS $/M	--------OPERATIONS, M$-------- NET OPER REVENUES	SEV+ADV TAXES	NET OPER EXPENSES	CAPITAL COSTS, M$	CASH FLOW BTAX, M$	10.00 PCT CUM. DISC BTAX, M$
12-95	2.464	41.428	2.156	36.250	17.50	1.50	92.105	5.527	7.500	.000	79.078	79.393
12-96	21.708	230.908	18.995	202.045	17.50	1.50	635.481	38.129	90.000	.000	507.352	563.317
12-97	11.939	46.182	10.447	40.409	17.50	1.50	243.437	14.606	90.000	.000	138.831	683.699
12-98	4.970	7.783	4.349	6.810	17.50	1.50	86.323	5.179	62.700	.000	18.444	698.447
12-99												
12- 0												
12- 1												
12- 2												
12- 3												
12- 4												
12- 5												
12- 6												
12- 7												
12- 8												
12- 9												
12-10												
12-11												
12-12												
12-13												
12-14												
S TOT	41.081	326.301	35.947	285.514	17.50	1.50	1057.346	63.441	250.200	.000	743.705	698.447
REM.	.000	.000	.000	.000	.00	.00	.000	.000	.000	.000	.000	698.447
TOTAL	41.081	326.301	35.947	285.514	17.50	1.50	1057.346	63.441	250.200	.000	743.705	698.447

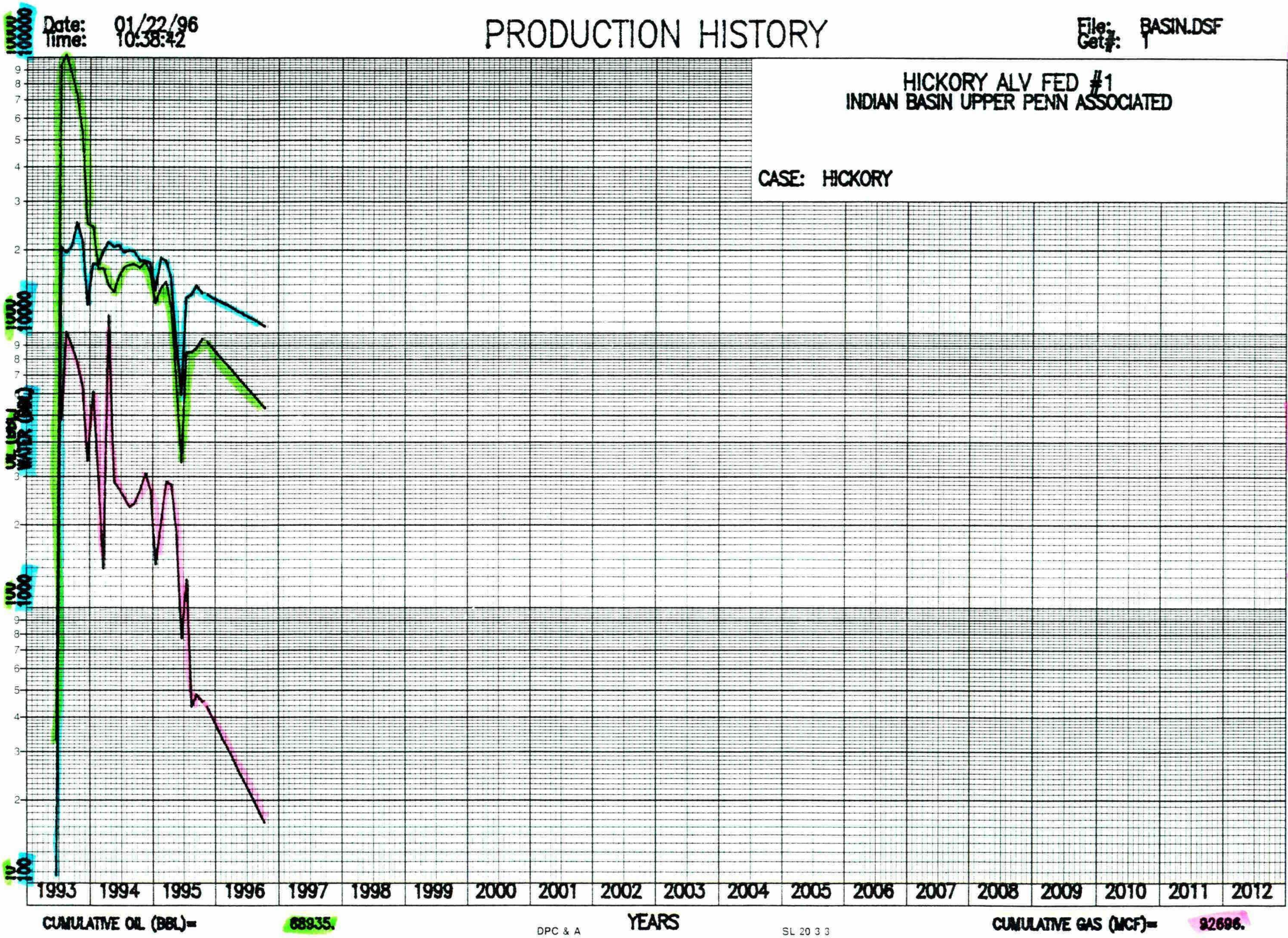
CUM.	26.187	678.062		NET OIL REVENUES (M$)	629.074
				NET GAS REVENUES (M$)	428.272
ULT.	67.268	1004.363		TOTAL REVENUES (M$)	1057.346

BTAX RATE OF RETURN (PCT)	100.00	PROJECT LIFE (YEARS)	2.780
BTAX PAYOUT YEARS	.00	DISCOUNT RATE (PCT)	10.000
BTAX PAYOUT YEARS (DISC)	.00	GROSS OIL WELLS	1.000
BTAX NET INCOME/INVEST	.00	GROSS GAS WELLS	.000
BTAX NET INCOME/INVEST (DISC)	.00	GROSS WELLS	1.000
INITIAL W.I. FRACTION	1.000000	INITIAL NET OIL FRACTION	.875000
FINAL W.I. FRACTION	1.000000	FINAL NET OIL FRACTION	.875000
PRODUCTION START DATE	12- 1-95	INITIAL NET GAS FRACTION	.875000
MONTHS IN FIRST LINE	1.00	FINAL NET GAS FRACTION	.875000

---------PRESENT WORTH PROFILE---------

DISC RATE	PW OF NET BTAX, M$	DISC RATE	PW OF NET BTAX, M$
.0	743.705	30.0	630.110
2.0	733.881	35.0	616.348
5.0	719.907	40.0	603.608
8.0	706.773	45.0	591.776
10.0	698.447	50.0	580.754
12.0	690.440	60.0	560.820
15.0	678.988	70.0	543.261
18.0	668.158	80.0	527.662
20.0	661.258	90.0	513.698
25.0	645.027	100.0	501.113

WATER GROSS PROD. (MU) 1045.606 | WATER NET PRODUCTION (MU) 914.906 | WATER NET REVENUES (M$) .000



Date: 01/22/96
Time: 10:38:42
PRODUCTION HISTORY
File: BASIN.DSF
Get#: 1
HICKORY ALV FED #1
INDIAN BASIN UPPER PENN ASSOCIATED
CASE: HICKORY
OIL (BBL)
WATER (BBL)
GAS (MCF)
1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012
YEARS
CUMULATIVE OIL (BBL)= 68935.
CUMULATIVE GAS (MCF)= 82696.
DPC & A
SL 20 3 3

OGRE(R) V1.40 BTAX
FILE NAME: BASIN (1)
CASE NAME: HICKORY
CMD NAME: STDA4152(300)

DATA REPORT

DATE: 01/22/96
TIME: 10:42:38

101 HICKORY ALV FED #1
102 INDIAN BASIN UPPER PENN ASSOCIATED

117 CASE NONE
120 12 95 12 1 1 96 10 1

	W.I. FRACTION	OP. COST ($/W/MO)	OP. COST ($/MO.)	ADV. TAX (PCT)	MAJOR PH. NAME	PROD DATE (MO/DY/YR)
210	1.00000000	.00	7500.00	.000	OIL	12/ 1/95

	PHASE NAME	CUM PROD (MUNITS)	REV. INT FRACTION	PRICE ($/UNIT)	SEV. TAX (PCT)	NO. OF WELLS	RATIO TO MAJOR PH
221	OIL	68.935	.87500000	17.500	6.000	1.0	
222	GAS	92.696	.87500000	1.500	6.000	.0	
223	WATER	456.533	.87500000	.000	.000	.0	

	PH. NAME	CURVE TP		DECLINE%	QI RATE	QT RATE	CUM. LIMIT		(M OR Y)	CALC VALUE	
410	OIL	EXP		45.000	881.000	X	1.000	YRS	M		
CALC	OIL	EXP	END=	45.000	881.000	484.550	1.000	YRS	M	76.893	MBBL
412	GAS	EXP		65.000	427.000	X	1.000	YRS	M		
CALC	GAS	EXP	END=	65.000	427.000	149.450	1.000	YRS	M	95.869	MMCF
414	WATER	EXP		25.000	13003.000	X	1.000	YRS	M		
CALC	WATER	EXP	END=	25.000	13003.000	9752.250	1.000	YRS	M	592.131	M-UNITS

HICKORY ALV FED #1
INDIAN BASIN UPPER PENN ASSOCIATED

DATE: 01/22/96
TIME: 10:42:38
FILE: BASIN
GET#: 1

R E S E R V E S   A N D   E C O N O M I C S

AS OF JANUARY 1, 1996

-END-	---GROSS PRODUCTION---		----NET PRODUCTION----		--PRICES---		--------OPERATIONS, M$--------					10.00 PCT
MO-YR	OIL, MBBL	GAS, MMCF	OIL, MBBL	GAS, MMCF	OIL $/B	GAS $/M	NET OPER REVENUES	SEV+ADV TAXES	NET OPER EXPENSES	CAPITAL COSTS, M$	CASH FLOW BTAX, M$	CUM. DISC BTAX, M$
12-95	.859	.409	.752	.358	17.50	1.50	13.697	.822	7.500	.000	5.375	5.396
12-96	7.099	2.764	6.212	2.419	17.50	1.50	112.339	6.741	82.500	.000	23.098	27.514
12-97												
12-98												
12-99												
12- 0												
12- 1												
12- 2												
12- 3												
12- 4												
12- 5												
12- 6												
12- 7												
12- 8												
12- 9												
12-10												
12-11												
12-12												
12-13												
12-14												
S TOT	7.958	3.173	6.964	2.777	17.50	1.50	126.036	7.563	90.000	.000	28.473	27.514
REM.	.000	.000	.000	.000	.00	.00	.000	.000	.000	.000	.000	27.514
TOTAL	7.958	3.173	6.964	2.777	17.50	1.50	126.036	7.563	90.000	.000	28.473	27.514

CUM.	68.935	92.696	NET OIL REVENUES (M$)	121.870
			NET GAS REVENUES (M$)	4.166
ULT.	76.893	95.869	TOTAL REVENUES (M$)	126.036

BTAX RATE OF RETURN (PCT)	100.00	PROJECT LIFE (YEARS)	1.000
BTAX PAYOUT YEARS	.00	DISCOUNT RATE (PCT)	10.000
BTAX PAYOUT YEARS (DISC)	.00	GROSS OIL WELLS	1.000
BTAX NET INCOME/INVEST	.00	GROSS GAS WELLS	.000
BTAX NET INCOME/INVEST (DISC)	.00	GROSS WELLS	1.000
INITIAL W.I. FRACTION	1.000000	INITIAL NET OIL FRACTION	.875000
FINAL W.I. FRACTION	1.000000	FINAL NET OIL FRACTION	.875000
PRODUCTION START DATE	12- 1-95	INITIAL NET GAS FRACTION	.875000
MONTHS IN FIRST LINE	1.00	FINAL NET GAS FRACTION	.875000

---------PRESENT WORTH PROFILE---------

DISC RATE	PW OF NET BTAX, M$	DISC RATE	PW OF NET BTAX, M$
.0	28.473	30.0	25.964
2.0	28.269	35.0	25.636
5.0	27.975	40.0	25.327
8.0	27.694	45.0	25.034
10.0	27.514	50.0	24.758
12.0	27.339	60.0	24.248
15.0	27.086	70.0	23.786
18.0	26.843	80.0	23.366
20.0	26.687	90.0	22.982
25.0	26.314	100.0	22.629

WATER GROSS PROD. (MU) 135.598 WATER NET PRODUCTION (MU) 118.648 WATER NET REVENUES (M$) .000

Insert

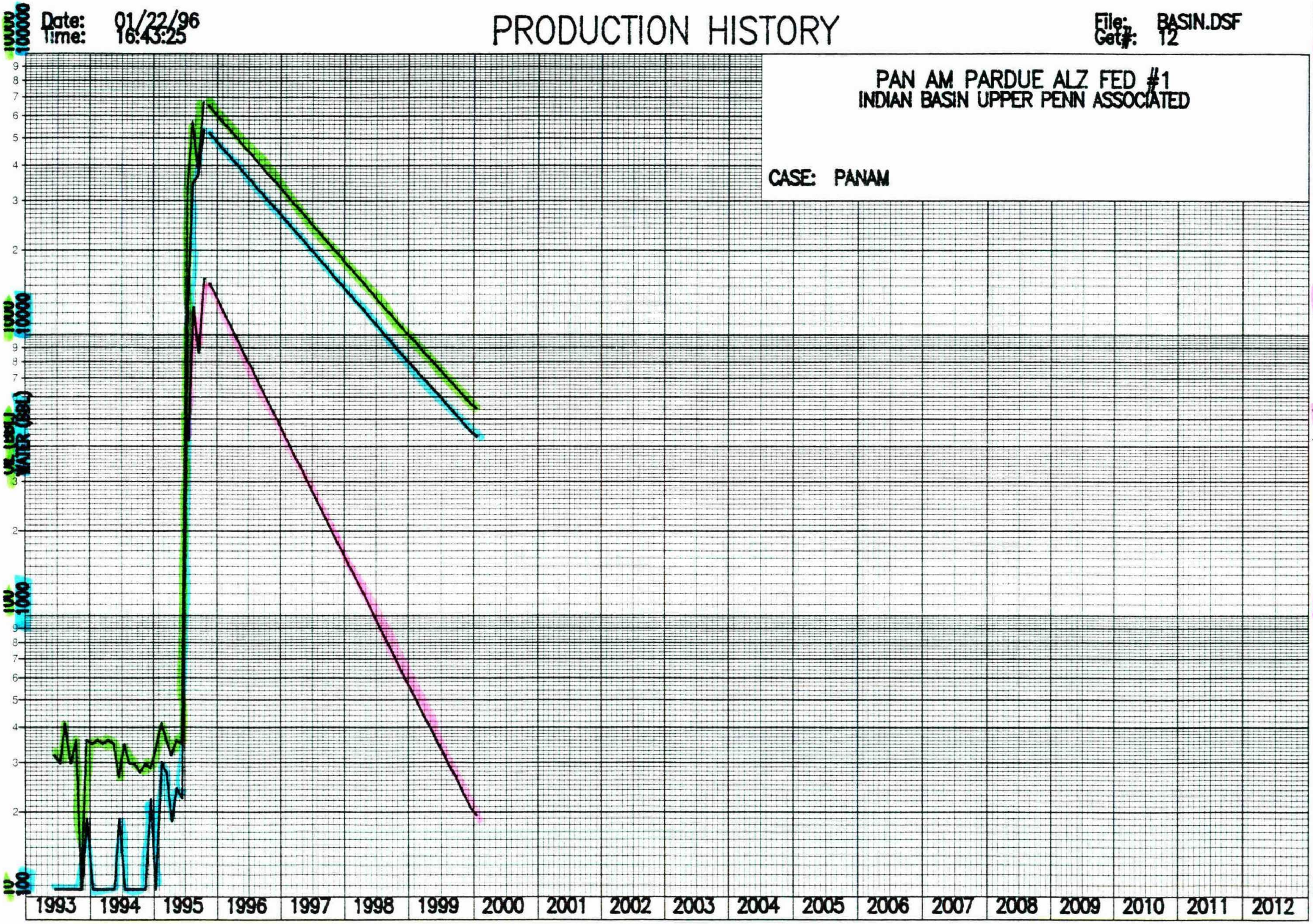
Color Page/Photo

Here

PRODUCTION HISTORY

Date: 01/22/96
Time: 16:43:25

File: BASIN.DSF
Get#: 12



CUMULATIVE OIL (BBL)= 19101.

DPC & A

SL 20 3 3

CUMULATIVE GAS (MCF)= 38509.

OGRE(R) V1.40 BTAX
FILE NAME: BASIN (12)
CASE NAME: PANAM
CMD NAME: STDA4209(300)

DATA REPORT

DATE: 01/22/96
TIME: 16:42:31

101 PAN AM PARDUE ALZ FED #1
102 INDIAN BASIN UPPER PENN ASSOCIATED

117 CASE NONE
120 12 95 12 1 1 96 10 1

	W.I. FRACTION	OP. COST ($/W/MO)	OP. COST ($/MO.)	ADV. TAX (PCT)	MAJOR PH. NAME	PROD DATE (MO/DY/YR)
210	1.00000000	.00	7500.00	.000	OIL	12/ 1/95

	PHASE NAME	CUM PROD (MUNITS)	REV. INT FRACTION	PRICE ($/UNIT)	SEV. TAX (PCT)	NO. OF WELLS	RATIO TO MAJOR PH
221	OIL	19.101	.87500000	17.500	6.000	1.0	
222	GAS	38.509	.87500000	1.500	6.000	.0	
223	WATER	130.881	.87500000	.000	.000	.0	

	PH. NAME	CURVE TP		DECLINE%	QI RATE	QT RATE	CUM. LIMIT		(M OR Y)	CALC VALUE	
410	OIL	EXP		45.000	6231.000	X	4.200	YRS	M		
CALC	OIL	EXP	END=	45.000	6231.000	505.919	4.200	YRS	M	134.017	MBBL
412	GAS	EXP		65.000	14836.000	X	4.200	YRS	M		
CALC	GAS	EXP	END=	65.000	14836.000	180.469	4.200	YRS	M	206.029	MMCF
414	WATER	EXP		45.000	49934.000	X	4.200	YRS	M		
CALC	WATER	EXP	END=	45.000	49934.000	4054.335	4.200	YRS	M	1051.794	M-UNITS

PAN AM PARDUE ALZ FED #1
INDIAN BASIN UPPER PENN ASSOCIATED

DATE: 01/22/96
TIME: 16:42:31
FILE: BASIN
GET#: 12

RESERVES AND ECONOMICS

AS OF JANUARY 1, 1996

-END-	---GROSS PRODUCTION---		----NET PRODUCTION----		--PRICES--		--------OPERATIONS, M$--------					10.00 PCT
MO-YR	OIL, MBBL	GAS, MMCF	OIL, MBBL	GAS, MMCF	OIL $/B	GAS $/M	NET OPER REVENUES	SEV+ADV TAXES	NET OPER EXPENSES	CAPITAL COSTS, M$	CASH FLOW BTAX, M$	CUM. DISC BTAX, M$
12-95	6.078	14.206	5.318	12.430	17.50	1.50	111.710	6.703	7.500	.000	97.507	97.895
12-96	53.547	100.995	46.854	88.371	17.50	1.50	952.502	57.150	90.000	.000	805.352	866.059
12-97	29.451	35.348	25.770	30.930	17.50	1.50	497.370	29.843	90.000	.000	377.527	1193.417
12-98	16.197	12.372	14.172	10.826	17.50	1.50	264.249	15.855	90.000	.000	158.394	1318.276
12-99	8.909	4.330	7.795	3.789	17.50	1.50	142.097	8.526	90.000	.000	43.571	1349.500
12- 0	.734	.269	.642	.235	17.50	1.50	11.588	.695	10.500	.000	.393	1349.767
12- 1												
12- 2												
12- 3												
12- 4												
12- 5												
12- 6												
12- 7												
12- 8												
12- 9												
12-10												
12-11												
12-12												
12-13												
12-14												
S TOT	114.916	167.520	100.551	146.581	17.50	1.50	1979.516	118.772	378.000	.000	1482.744	1349.767
REM.	.000	.000	.000	.000	.00	.00	.000	.000	.000	.000	.000	1349.767
TOTAL	114.916	167.520	100.551	146.581	17.50	1.50	1979.516	118.772	378.000	.000	1482.744	1349.767

	OIL, MBBL	GAS, MMCF
CUM.	19.101	38.509
ULT.	134.017	206.029

NET OIL REVENUES (M$)	1759.643
NET GAS REVENUES (M$)	219.873
TOTAL REVENUES (M$)	1979.516

BTAX RATE OF RETURN (PCT)	100.00	PROJECT LIFE (YEARS)	4.200
BTAX PAYOUT YEARS	.00	DISCOUNT RATE (PCT)	10.000
BTAX PAYOUT YEARS (DISC)	.00	GROSS OIL WELLS	1.000
BTAX NET INCOME/INVEST	.00	GROSS GAS WELLS	.000
BTAX NET INCOME/INVEST (DISC)	.00	GROSS WELLS	1.000
INITIAL W.I. FRACTION	1.000000	INITIAL NET OIL FRACTION	.875000
FINAL W.I. FRACTION	1.000000	FINAL NET OIL FRACTION	.875000
PRODUCTION START DATE	12- 1-95	INITIAL NET GAS FRACTION	.875000
MONTHS IN FIRST LINE	1.00	FINAL NET GAS FRACTION	.875000

---------PRESENT WORTH PROFILE---------

DISC RATE	PW OF NET BTAX, M$	DISC RATE	PW OF NET BTAX, M$
.0	1482.744	30.0	1162.401
2.0	1453.264	35.0	1126.561
5.0	1411.922	40.0	1093.937
8.0	1373.693	45.0	1064.108
10.0	1349.767	50.0	1036.727
12.0	1326.987	60.0	988.176
15.0	1294.795	70.0	946.431
18.0	1264.761	80.0	910.127
20.0	1245.834	90.0	878.243
25.0	1201.952	100.0	849.998

WATER GROSS PROD. (MU)	920.913	WATER NET PRODUCTION (MU)	805.799	WATER NET REVENUES (M$)	.000

INDIAN BASIN UPPER PENNSYLVANIAN - ASSOCIATED PRODUCTION & LOG SUMMARY					
Operator / **Well**	**Ult.Oil (BBLS)**	**Ult.Gas (MCF)**	**ϕ (%)**	**h (Ft)**	**Sw (%)**
Nearburg Producing Company					
Big Walt 2 State #1	1,658	514,928	7.0	33	37
Big Walt 2 State #2	1,328	375,941	5.0	38	55
Big Walt 2 State #3	5,631	1,839,787	5.4	37	53
Chama Fed. Com #1	----	----	----	----	----
Marathon Oil Company					
Indian Hills Unit #8	----	----	----	----	----
Sante Fe Energy Resource, Inc.					
Nagooltee Peak 5 Fed. #1	80,027	184,237	4.8	52	37
Old Ranch Canyon 7 Fed. #1	34,931	2,048,078	5.6	82	29
Old Ranch Knoll 8 Fed. Com #1	----	----	----	----	----
Old Ranch Knoll 8 Fed. Com #2	32,097	45,108	6.0	20	28
Right Hand Canyon Fed. #1	13,093	121,395	5.5	24	35
Jones Canyon 4 Fed.#1	156,069	634,652	4.5	207	32
Yates Petroleum Corp.					
Anemone ANE Fed. #1	175,801	363,412	4.8	58	35
Anemone ANE Fed. #2	90,341	1,547,576	6.6	163	30
Anemone ANE Fed. #3	177,308	483,012	5.2	86	44
Brannigan ANF Fed. #2	62,268	1,004,363	5.4	34	36
Hickory ALV Fed. #1	76,893	95,869	5.3	67	40
Pan Am Pardue ALZ Fed. Com #1	134,017	206,029	6.5	135	50
Walt Canyon AMA Fed. #1	----	----	----	----	----
AVERAGES	**74,390**	**676,028**	**5.5**	**74**	**39**
	GOR = 9.1 MCF/BO				

DRAINSUM.XLS
Prod Log Sum
Eng\Katie\Ray

INDIAN BASIN UPPER PENN - ASSOCIATED

Volumetrics For Drainage

① Calculate Volumetrics

1/ Original Oil In Place

$$OOIP = \frac{7758\ \phi\ h\ (1-S_w)\ A}{B_{oi}} \quad ,\ B_{oi} \text{ as bbl/STB}$$

$B_{oi} = 1.2$ bbl/STB

Produced Oil = OOIP × Recovery Factor = N_p

2/ $$OGIP = \frac{43560\ \phi\ h\ (1-S_w)\ A}{B_{gi}} \quad ,\ B_{gi} \text{ as cuft/SCF}$$

Or $$OGIP = \frac{7758\ \phi\ h\ (1-S_w)\ A}{B_{gi}} \quad ,\ B_{gi} \text{ as bbl/SCF}$$

Produced Gas = OGIP × Recovery Factor = G_p

$$B_{gi} = \frac{P_{sc}\ Z\ T_{res}}{T_{sc}\ P_{res}} \quad \text{(Craft \& Hawkins 1.6)}$$

At $T_{sc} = 60°F$, $P_{sc} = 14.7$ psia

$$B_{gi} = 0.02829\ \frac{Z\ T_{res}}{P_{res}} \quad \text{cuft/SCF}$$

or $$B_{gi} = 0.00504\ \frac{Z\ T_{res}}{P_{res}} \quad \text{bbl/SCF}$$

At $P_{res} = 2000$ psi & $T_{res} = 150°F$, $Z = 0.87$

$$B_{gi} = 0.00504\ \frac{(0.87)(610)}{2000} = 0.00134 \text{ bbl/SCF}$$

$$= 1.34 \text{ bbl/MSCF}$$

3/ Drainage Area

$$A_{oil} = \frac{(N_p \div R.F.)\ B_{oi}}{7758\ \phi\ h\ (1-S_w)}$$

$$A_{gas} = \frac{(G_p \div R.F.)\ B_{gi}}{7758\ \phi\ h\ (1-S_w)}$$

$$A_{Total} = A_{oil} + A_{gas} = \frac{[N_p B_{oi} + G_p B_{gi}]}{7758\ \phi\ h\ (1-S_w)(R.F.)}$$

$$A_{Total} = \frac{1.2\ N_p + 1.34\ G_p}{7758\ \phi\ h\ (1-S_w)(R.F.)}$$

INDIAN BASIN UPPER PENN – ASSOCIATED
Volumetrics For Drainage

Recovery Factors for Volumetric Calculations

For Prod GOR < 25 MCF/BO ; Use R.F. = 0.20

For Prod GOR > 25 MCF/BO ; Use R.F. = 0.80

For Average All Wells GOR = 9.1 MCF/BO, Use R.F. = 0.46

Average Well Drainage

$$A_{\substack{\text{AVERAGE}\\ \text{WELL}}} = \frac{1.2\ N_{P_{AVG}} + 1.34\ G_{P_{AVG}}}{7758\ \phi_{AVG}\ h_{AVG}\ (1 - S_{w_{AVG}})\ RF_{AVG}}$$

$$= \frac{1.2\ (74,390) + 1.34\ (676,028)}{7758 \times 0.055 \times 74 \times (1 - 0.39)\ R.F_{AVG}}$$

$$= \frac{89,268 + 905,878}{19,261\ R.F_{AVG}} = \frac{51.67}{R.F._{AVG}}$$

Using $R.F._{AVG} = 46\%$ for combination of oil and gas wells within area.

$$A_{\substack{\text{AVERAGE}\\ \text{Well}}} = \underline{\underline{112\ \text{acres}}}$$

Hickory ALV Fed #1 Drainage

$$A = \frac{1.2\ N_p + 1.34\ G_p}{7758\ \phi h\ (1 - S_w)\ R.F.}$$

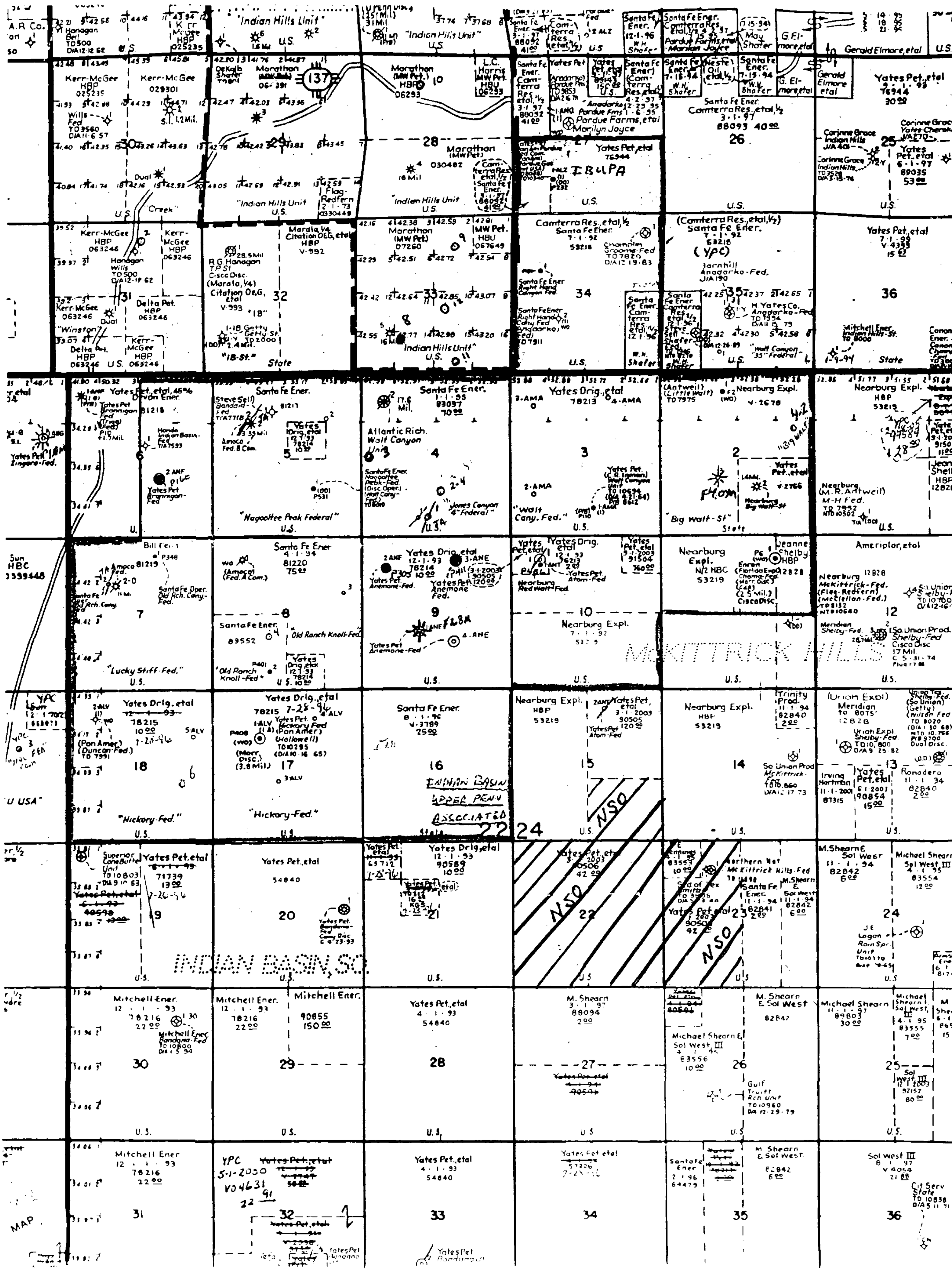
$$A = \frac{1.2\,(76{,}893) + 1.34\,(95{,}869)}{7758 \times 0.053 \times 67 \times (1 - 0.40)\ R.F.}$$

$$A = \frac{92{,}272 + 128{,}464}{16{,}529\ R.F.} = \frac{13.35}{R.F}$$

Using R.F. = 20%

A = 67 acres

LARGE FORMAT EXHIBIT HAS BEEN REMOVED AND IS LOCATED IN THE NEXT FILE



"Indian Hills Unit"
Kerr-McGee HBP 025235
Kerr-McGee 029301
Marathon HBP 06293
L.C. Harris MW Pet. HBU 06293
Santa Fe Ener. Camterra Res.
Yates Pet. etal
Gerald Elmore, etal
Yates Pet. etal 76944
Santa Fe Ener. Camterra Res. etal ½ 3-1-97 88093
Pardue Farms, etal
Marilyn Joyce
Corinne Grace
Marathon 030482
"Indian Hills Unit"
Flag-Redfern
Kerr-McGee HBP 063246
Delta Pet. HBP 063246
Marathon (MW Pet) 07260
MW Pet. HBU 067649
Camterra Res, etal ½ Santa Fe Ener. 7-1-92 53218
Yates Pet. etal
R.G. Hanagan
Citation O&G
"18-St."
State
Indian Hills Unit
H. Yates Co. Anadarko-Fed.
Mitchell Ener. Indian Hills-St.
Yates Pet. etal 46% Devon Ener.
Santa Fe Ener.
Santa Fe Ener. 1-1-95 83037
Yates Drlg. etal 78213
Nearburg Expl.
Atlantic Rich. Walt Canyon Unit
"Nagoolfee Peak Federal"
"Jones Canyon 4 Federal"
"Walt Cany. Fed."
"Big Walt-St"
State
Bill Fed.
Santa Fe Ener 4-1-94 81220
Yates Drlg. etal 12-1-93 78214
Nearburg Expl. N/2 HBC 53219
Jeanne Shelby HBP 12828
Ameriplor, etal
Santa Fe Ener. 83552
Old Ranch Knoll-Fed.
Nearburg Expl. 7-1-92
McKITTRICK HILLS
"Lucky Stiff-Fed."
Yates Drlg. etal 78215
Yates Drlg. etal 7-28-94 78215
Santa Fe Ener. 8-1-96 V-3789
Nearburg Expl. HBP 53219
Yates Pet. Atom-Fed
Meridian
Ronadero
"Hickory-Fed."
"Hickory-Fed."
INDIAN BASIN UPPER PENN ASSOCIATED
NSO
Yates Pet. etal 71739
Yates Pet. etal 54840
Yates Drlg. etal 12-1-93 90589
Yates Pet. etal
Santa Fe Ener.
M. Shearn E Sol West 82842
Michael Shearn Sol West III 83554
J.E. Logan Rain Spr. Unit
INDIAN BASIN, SO.
Mitchell Ener. 12-1-93 78216
Mitchell Ener. 90655
Yates Pet. etal 4-1-93 54840
M. Shearn 3-1-97 88094
M. Shearn E Sol West 82842
Michael Shearn & Sol West III 83556
Michael Shearn 89803
Gulf Truitt Rch. Unit
Sol West III
Mitchell Ener 12-1-93 78216
YPC 5-1-2000 V04631
Yates Pet. etal 4-1-93 54840
Yates Pet. etal
M. Shearn E Sol West 82842
Sol West III 8-1-97 V-4054
Cit. Serv. State
MAP
U.S.

BEFORE THE
OIL CONSERVATION DIVISION
Santa Fe, New Mexico

Case Nos. 10748 (Reopened)
11484 Exhibit No. 1

Submitted by: Yates Petroleum Corporation

Hearing Date: March 21, 1996