

State of New Mexico

#3652



W.R. HUMPHRIES
COMMISSIONER



Commissioner of Public Lands

P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148

October 2, 1990

Mr. Leon Standard, District Production Superintendent
Dekalb Energy Company
2626 J. B. Sheppard Pky, Suite A-200
Odessa, Texas 79761

Re: Artesia Unit
Eddy County, New Mexico
1990 Plan of Development

Dear Mr. Standard

The Commissioner of Public Lands this date approved the 1990 Plan of Development for the Artesia Unit. Our approval is subject to like approval by all other appropriate agencies.

The possibility of drainage by wells outside of the Unit Area and the need for further development may exist. You will be contacted at a later date regarding these possibilities.

If we may be of further help, please do not hesitate to contact Clyde Langdale at (505) 827-5791.

Sincerely,

W. R. HUMPHRIES

BY: *Floyd O. Prando*
Floyd O. Prando, Director
Oil, Gas & Minerals Division

cc: OCD
Unit Corresp.
Unit POD

3652

3-15-90

March 6, 1990

DEKALB
ENERGY

Commissioner of Public Lands
P.O. Box 1148
Santa Fe, New Mexico 87504-1148

New Mexico Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87501

Re: Artesia Unit
Eddy County, New Mexico

D-
UNIT LETTER
TH
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Gentleman:

In response to your letter dated January 3, 1990 requesting a plan of development for 1990 on the Artesia Unit, DEKALB Energy Company respectfully submits for your approval a report of past operations and a plan of development for the year 1990.

Past Operations

The Artesia Unit was initially approved as the Highway Waterflood operated by International Oil and Gas Corporation by Order No. R-2876 dated March 5, 1965, by injection into two (2) wells. The waterflood was expanded to sixteen (16) injectors and 48 producers and renamed the Artesia Unit, by Order R-3311 dated September 6, 1967 and operated by DEPCO, Inc. the predecessor of DEKALB Energy Company.

As of January 1, 1990 sixteen (16) active injection wells were in service. Cumulative injection since unitization was 17,161,074 barrels. The daily average injection rate during December, 1989 was 1,332 BWPB at an average of 1410 psig.

Cumulative oil production from the unit area since unitization was 3,085,527 barrels of oil as of January 1, 1990. The average daily production during December 1989 was 71 BOPD from forty-one (41) active producing wells. Seven (7) wells are shut-in and three (3) wells have been plugged and abandon.

In 1970, three (3) wells were converted to injection, one (1) injector was plugged and a replacement well drilled. Two (2) new injectors were drilled and completed.

DEKALB Energy Company
2626 J.B. Sheppard Pky, Suite A-200
Odessa, Texas 79761
(915) 363-7007
(915) 363-0013 FAX

Between 1971 and 1975, three (3) wells were acidized, one (1) well frac, one (1) well temporary abandon, and two (2) wells converted to injection.

Between 1975 and 1980, three (3) wells were squeezed to improve injection, four (4) wells were frac, one (1) well was plugged and abandon, one (1) well was converted to injection, and four (4) injectors were converted back to producing wells.

Between 1980 and 1985 four (4) wells were squeezed to improve injection are to repair casing leaks, two (2) wells were frac, and one (1) well was temporary abandon.

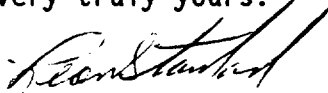
Between 1985 and 1990, two (2) wells were acidized, one (1) well was plugged and abandon, and one (1) shut-in injector, was converted to a producing well.

Plans for 1990

Plans for 1990 include the replacement of the gas engine with a electric motor at the injection plant and reducing the amount of make-up water being injected. Also there is a possibility of replacing some old flowlines and injection lines with new ones.

The unit will continue to be monitored for efficient and economical reservoir performance.

Very truly yours:



Leon Standard
District Production Superintendent

LS/vp

cc: Mike Williams	OCC Artesia
R. L. Flower	DEKALB Energy
G. F. Reiger	DEKALB Energy

DEKALB ENERGY

02/09/90

ARTESIA UNIT

LIST OF WELLS

WELL NUMBER	STATUS	FORMATION
1	PRODUCER	GRAYBURG
2	SHUT IN	GRAYBURG
3	PRODUCER	GRAYBURG
4	PRODUCER	GRAYBURG
5	SHUT IN	GRAYBURG
6	PRODUCER	GRAYBURG
7	INJECTION	GRAYBURG
8	INJECTION	GRAYBURG
9	PRODUCER	GRAYBURG
10	PRODUCER	GRAYBURG
11	PRODUCER	GRAYBURG
12	PRODUCER	GRAYBURG
13	PRODUCER	GRAYBURG
14	INJECTION	GRAYBURG
15	PRODUCER	GRAYBURG
16	INJECTION	GRAYBURG
17	PRODUCER	GRAYBURG
18	PRODUCER	GRAYBURG
19	PRODUCER	GRAYBURG
20	INJECTION	GRAYBURG
21	PRODUCER	GRAYBURG
22	INJECTION	GRAYBURG
23	PRODUCER	GRAYBURG
24	PRODUCER	GRAYBURG
25	PRODUCER	GRAYBURG
26	INJECTION	GRAYBURG
27	PRODUCER	GRAYBURG
28	INJECTION	GRAYBURG
29	PRODUCER	GRAYBURG
30	PLUGGED	GRAYBURG
31	PRODUCER	GRAYBURG
32	SHUT IN	GRAYBURG
33	PRODUCER	GRAYBURG

WELL NUMBER 1

PRODUCTION			
	OIL	GAS	WATER
JAN 88	23		70
FEB 88	20		63
MAR 88	29		38
APR 88	31		36
MAY 88	23		122
JUN 88	26		128
JUL 88	37		92
AUG 88	24		56
SEP 88	22		82
OCT 88	26		86
NOV 88	22		93
DEC 88	22		81

TOTALS	305	0	947
TOTAL PRODUCTION 1988	1252		

WELL NUMBER 1

PRODUCTION			
	OIL	GAS	WATER
JAN 89	22		91
FEB 89	18		83
MAR 89	19		95
APR 89	24		94
MAY 89	54		64
JUN 89	27		91
JUL 89	23		84
AUG 89	30		119
SEP 89	24		85
OCT 89	27		97
NOV 89	17		133
DEC 89	20		133

TOTALS	305	0	1169
TOTAL PRODUCTION 1989	1474		

WELL NUMBER 3

PRODUCTION			
	OIL	GAS	WATER
JAN 88	85		206
FEB 88	76		190
MAR 88	30		340
APR 88	29		333
MAY 88	64		424
JUN 88	70		446
JUL 88	56		310
AUG 88	92		365
SEP 88	95		356
OCT 88	107		379
NOV 88	51		365
DEC 88	24		408

TOTALS	779	0	4122
TOTAL PRODUCTION 1988	4901		

WELL NUMBER 3

PRODUCTION			
	OIL	GAS	WATER
JAN 89	23		552
FEB 89	86		220
MAR 89	70		413
APR 89	53		281
MAY 89	83		352
JUN 89	54		486
JUL 89	92		308
AUG 89	63		475
SEP 89	80		306
OCT 89	78		356
NOV 89	76		396
DEC 89	83		448

TOTALS	841	0	4593
TOTAL PRODUCTION 1989	5434		

WELL NUMBER**4****PRODUCTION**

	OIL	GAS	WATER
JAN 88	171		4123
FEB 88	152		3806
MAR 88	38		730
APR 88	234		4436
MAY 88	172		3999
JUN 88	164		3540
JUL 88	205		4121
AUG 88	161		4627
SEP 88	142		4134
OCT 88	161		4397
NOV 88	200		4234
DEC 88	310		4213

TOTALS

2110

0

46360

TOTAL PRODUCTION 1988

48470

WELL NUMBER**4****PRODUCTION**

	OIL	GAS	WATER
JAN 89	297		4752
FEB 89	137		4397
MAR 89	209		4864
APR 89	211		4963
MAY 89	195		5057
JUN 89	216		4826
JUL 89	183		4457
AUG 89	165		3773
SEP 89	186		4401
OCT 89	183		5209
NOV 89	133		4557
DEC 89	132		4655

TOTALS

2247

0

55911

TOTAL PRODUCTION 1989

58158

WELL NUMBER 6

PRODUCTION

	OIL	GAS	WATER
JAN 88			
FEB 88			
MAR 88			
APR 88			
MAY 88			
JUN 88			
JUL 88			
AUG 88			
SEP 88			
OCT 88	35		996
NOV 88	49		2588
DEC 88	22		3000

TOTALS	106	0	6584
TOTAL PRODUCTION 1988	6690		

WELL NUMBER 6

PRODUCTION

	OIL	GAS	WATER
JAN 89	64		2323
FEB 89	51		2226
MAR 89	67		2153
APR 89	79		2060
MAY 89	27		1951
JUN 89	25		1785
JUL 89	20		1577
AUG 89	83		2507
SEP 89	24		1855
OCT 89	24		1753
NOV 89	55		2216
DEC 89	34		1446

TOTALS	553	0	23852
TOTAL PRODUCTION 1989	24405		

WELL NUMBER 9

PRODUCTION			
	OIL	GAS	WATER
JAN 88	21		344
FEB 88	19		317
MAR 88	30		377
APR 88	29		370
MAY 88	11		348
JUN 88	23		446
JUL 88	56		434
AUG 88	69		393
SEP 88	47		493
OCT 88	80		437
NOV 88	95		457
DEC 88	48		462

TOTALS	528	0	4878
TOTAL PRODUCTION 1988	5406		

WELL NUMBER 9

PRODUCTION			
	OIL	GAS	WATER
JAN 89	46		521
FEB 89	86		302
MAR 89	52		477
APR 89	26		531
MAY 89	28		640
JUN 89	27		546
JUL 89	46		561
AUG 89	32		534
SEP 89	80		529
OCT 89	78		615
NOV 89	76		481
DEC 89	75		492

TOTALS	652	0	6229
TOTAL PRODUCTION 1989	6881		

WELL NUMBER 10

PRODUCTION			
	OIL	GAS	WATER
JAN 88	85		240
FEB 88	76		222
MAR 88	59		264
APR 88	59		259
MAY 88	86		424
JUN 88	47		415
JUL 88	37		341
AUG 88	69		308
SEP 88	71		274
OCT 88	107		291
NOV 88	49		335
DEC 88	48		272

TOTALS	793	0	3645
TOTAL PRODUCTION 1988	4438		

WELL NUMBER 10

PRODUCTION			
	OIL	GAS	WATER
JAN 89	46		276
FEB 89	34		275
MAR 89	70		191
APR 89	53		312
MAY 89	56		384
JUN 89	81		395
JUL 89	23		448
AUG 89	32		386
SEP 89	27		334
OCT 89	52		324
NOV 89	76		340
DEC 89	83		384

TOTALS	633	0	4049
TOTAL PRODUCTION 1989	4682		

WELL NUMBER 11

PRODUCTION			
	OIL	GAS	WATER
JAN 88	21		34
FEB 88	19		32
MAR 88	30		38
APR 88	29		37
MAY 88	21		30
JUN 88	23		32
JUL 88	19		31
AUG 88	23		28
SEP 88	24		27
OCT 88	27		29
NOV 88	25		30
DEC 88	24		27

TOTALS	285	0	375
TOTAL PRODUCTION 1988	660		

WELL NUMBER 11

PRODUCTION			
	OIL	GAS	WATER
JAN 89	23		31
FEB 89	17		27
MAR 89	17		32
APR 89	26		31
MAY 89	28		32
JUN 89	27		30
JUL 89	23		28
AUG 89	32		30
SEP 89	27		28
OCT 89	26		32
NOV 89	19		28
DEC 89	17		27

TOTALS	282	0	356
TOTAL PRODUCTION 1989	638		

WELL NUMBER

12

PRODUCTION

	OIL	GAS	WATER
JAN 88	21		137
FEB 88	19		127
MAR 88	30		151
APR 88	29		222
MAY 88	21		182
JUN 88	21		201
JUL 88	2		40
AUG 88	3		29
SEP 88	24		219
OCT 88	27		175
NOV 88	25		213
DEC 88	24		190

TOTALS

246

0

1886

TOTAL PRODUCTION 1988

2132

WELL NUMBER

12

PRODUCTION

	OIL	GAS	WATER
JAN 89	23		215
FEB 89	17		165
MAR 89	17		223
APR 89	26		187
MAY 89	28		192
JUN 89	27		182
JUL 89	23		140
AUG 89	32		148
SEP 89	27		139
OCT 89	26		194
NOV 89	19		198
DEC 89	17		188

TOTALS

282

0

2171

TOTAL PRODUCTION 1989

2453

WELL NUMBER 13

PRODUCTION			
	OIL	GAS	WATER
JAN 88	21		103
FEB 88	19		95
MAR 88	30		113
APR 88	29		148
MAY 88	43		61
JUN 88	47		64
JUL 88	19		62
AUG 88	23		84
SEP 88	24		82
OCT 88	27		87
NOV 88	25		91
DEC 88	24		82

TOTALS	331	0	1072
TOTAL PRODUCTION 1988	1403		

WELL NUMBER 13

PRODUCTION			
	OIL	GAS	WATER
JAN 89	23		61
FEB 89	17		82
MAR 89	17		95
APR 89	26		94
MAY 89	28		64
JUN 89	27		91
JUL 89	23		84
AUG 89	32		89
SEP 89	27		84
OCT 89	26		97
NOV 89	19		85
DEC 89	17		81

TOTALS	282	0	1007
TOTAL PRODUCTION 1989	1289		

WELL NUMBER 15

PRODUCTION

	OIL	GAS	WATER
JAN 88	21		137
FEB 88	19		127
MAR 88	30		113
APR 88	29		148
MAY 88	21		151
JUN 88	23		159
JUL 88	19		124
AUG 88	23		112
SEP 88	24		110
OCT 88	27		116
NOV 88	25		91
DEC 88	24		109

TOTALS	285	0	1497
TOTAL PRODUCTION 1988	1782		

WELL NUMBER 15

PRODUCTION

	OIL	GAS	WATER
JAN 89	23		153
FEB 89	17		110
MAR 89	17		159
APR 89	26		156
MAY 89	28		192
JUN 89	27		152
JUL 89	23		140
AUG 89	32		148
SEP 89	27		139
OCT 89	26		194
NOV 89	19		142
DEC 89	17		134

TOTALS	282	0	1819
TOTAL PRODUCTION 1989	2101		

WELL NUMBER 17

PRODUCTION

	OIL	GAS	WATER
JAN 88	128		24
FEB 88	86		31
MAR 88	35		73
APR 88	23		82
MAY 88	22		71
JUN 88	24		57
JUL 88	24		44
AUG 88	20		48
SEP 88	14		39
OCT 88	20		18
NOV 88	25		20
DEC 88	32		18

TOTALS	453	0	525
TOTAL PRODUCTION 1988	978		

WELL NUMBER 17

PRODUCTION

	OIL	GAS	WATER
JAN 89	71		16
FEB 89	31		67
MAR 89	35		94
APR 89	29		40
MAY 89	40		29
JUN 89	27		50
JUL 89	64		68
AUG 89	42		55
SEP 89	52		8
OCT 89	35		11
NOV 89	26		19
DEC 89	34		47

TOTALS	486	0	504
TOTAL PRODUCTION 1989	990		

WELL NUMBER 18

PRODUCTION			
	OIL	GAS	WATER
JAN 88	21		49
FEB 88	15		60
MAR 88	52		55
APR 88	32		40
MAY 88	20		35
JUN 88	48		28
JUL 88	48		22
AUG 88	36		46
SEP 88	40		20
OCT 88	42		9
NOV 88	49		10
DEC 88	33		6

TOTALS	436	0	380
TOTAL PRODUCTION 1988	816		

WELL NUMBER 18

PRODUCTION			
	OIL	GAS	WATER
JAN 89	35		10
FEB 89	29		51
MAR 89	70		24
APR 89	29		13
MAY 89	39		14
JUN 89	55		24
JUL 89	32		35
AUG 89	42		26
SEP 89	50		4
OCT 89	71		3
NOV 89	54		7
DEC 89	72		12

TOTALS	578	0	223
TOTAL PRODUCTION 1989	801		

WELL NUMBER 19

PRODUCTION

	OIL	GAS	WATER
JAN 88	21		243
FEB 88	15		302
MAR 88	35		364
APR 88	44		303
MAY 88	20		282
JUN 88	25		316
JUL 88	24		224
AUG 88	18		324
SEP 88	13		219
OCT 88	21		111
NOV 88	24		129
DEC 88	33		90

TOTALS	293	0	2907
TOTAL PRODUCTION 1988	3200		

WELL NUMBER 19

PRODUCTION

	OIL	GAS	WATER
JAN 89	70		36
FEB 89	29		170
MAR 89	35		285
APR 89	58		118
MAY 89	39		108
JUN 89	27		268
JUL 89	32		380
AUG 89	42		264
SEP 89	50		42
OCT 89	36		37
NOV 89	27		72
DEC 89	35		127

TOTALS	480	0	1907
TOTAL PRODUCTION 1989	2387		

WELL NUMBER 23

PRODUCTION

	OIL	GAS	WATER
JAN 88	33		71
FEB 88	40		17
MAR 88	47		61
APR 88	30		151
MAY 88	24		110
JUN 88	45		75
JUL 88	25		111
AUG 88	22		105
SEP 88	23		60
OCT 88	23		113
NOV 88	33		36
DEC 88	47		79

TOTALS 392 0 989

TOTAL PRODUCTION 1988 1381

WELL NUMBER 23

PRODUCTION

	OIL	GAS	WATER
JAN 89	53		96
FEB 89	50		58
MAR 89	46		37
APR 89	25		68
MAY 89	33		108
JUN 89	29		97
JUL 89	20		65
AUG 89	59		98
SEP 89	29		73
OCT 89	24		61
NOV 89	24		93
DEC 89	27		83

TOTALS 419 0 937

TOTAL PRODUCTION 1989 1356

WELL NUMBER 24

PRODUCTION

	OIL	GAS	WATER
JAN 88	33		141
FEB 88	25		179
MAR 88	29		210
APR 88	27		297
MAY 88	27		246
JUN 88	22		252
JUL 88	25		295
AUG 88	23		275
SEP 88	26		124
OCT 88	26		261
NOV 88	54		170
DEC 88	24		337

TOTALS 341 0 2787

TOTAL PRODUCTION 1988 3128

WELL NUMBER 24

PRODUCTION

	OIL	GAS	WATER
JAN 89	28		521
FEB 89	24		284
MAR 89	26		349
APR 89	27		396
MAY 89	29		470
JUN 89	25		323
JUL 89	26		269
AUG 89	30		323
SEP 89	24		325
OCT 89	28		303
NOV 89	24		302
DEC 89	24		249

TOTALS 315 0 4114

TOTAL PRODUCTION 1989 4429

WELL NUMBER 25

PRODUCTION			
	OIL	GAS	WATER
JAN 88	65		212
FEB 88	63		54
MAR 88	73		63
APR 88	108		148
MAY 88	27		282
JUN 88	45		252
JUL 88	50		185
AUG 88	23		240
SEP 88	26		124
OCT 88	26		373
NOV 88	109		205
DEC 88	72		224

TOTALS	687	0	2362
TOTAL PRODUCTION 1988	3049		

WELL NUMBER 25

PRODUCTION			
	OIL	GAS	WATER
JAN 89	56		228
FEB 89	48		189
MAR 89	26		310
APR 89	81		165
MAY 89	29		181
JUN 89	76		194
JUL 89	77		437
AUG 89	30		355
SEP 89	73		253
OCT 89	83		182
NOV 89	72		211
DEC 89	47		160

TOTALS	698	0	2865
TOTAL PRODUCTION 1989	3563		

WELL NUMBER 27

PRODUCTION

	OIL	GAS	WATER
JAN 88	65		459
FEB 88	25		359
MAR 88	29		462
APR 88	27		371
MAY 88	27		422
JUN 88	22		324
JUL 88	25		369
AUG 88	23		446
SEP 88	26		341
OCT 88	26		522
NOV 88	27		307
DEC 88	24		449

TOTALS	346	0	4831
TOTAL PRODUCTION 1988	5177		

WELL NUMBER 27

PRODUCTION

	OIL	GAS	WATER
JAN 89	56		391
FEB 89	48		347
MAR 89	26		465
APR 89	27		297
MAY 89	27		372
JUN 89	25		355
JUL 89	25		293
AUG 89	30		355
SEP 89	24		362
OCT 89	28		333
NOV 89	74		343
DEC 89	47		347

TOTALS	437	0	4260
TOTAL PRODUCTION 1989	4697		

WELL NUMBER 29

PRODUCTION			
	OIL	GAS	WATER
JAN 88	43		267
FEB 88	31		355
MAR 88	70		364
APR 88	88		385
MAY 88	82		423
JUN 88	25		374
JUL 88	24		246
AUG 88	36		324
SEP 88	66		238
OCT 88	42		130
NOV 88	24		89
DEC 88	33		103

TOTALS	564	0	3298
TOTAL PRODUCTION 1988	3862		

WELL NUMBER 29

PRODUCTION			
	OIL	GAS	WATER
JAN 89	35		49
FEB 89	59		238
MAR 89	35		24
APR 89	58		184
MAY 89	38		111
JUN 89	55		342
JUL 89	32		519
AUG 89	84		370
SEP 89	101		34
OCT 89	36		47
NOV 89	81		92
DEC 89	35		150

TOTALS	649	0	2160
TOTAL PRODUCTION 1989	2809		

WELL NUMBER 31

PRODUCTION

	OIL	GAS	WATER
JAN 88	21		49
FEB 88	15		60
MAR 88	35		73
APR 88	22		55
MAY 88	20		35
JUN 88	25		29
JUL 88	24		45
AUG 88	36		23
SEP 88	13		60
OCT 88	21		19
NOV 88	24		10
DEC 88	67		6

TOTALS 323 0 464

TOTAL PRODUCTION 1988 787

WELL NUMBER 31

PRODUCTION

	OIL	GAS	WATER
JAN 89	35		10
FEB 89	29		34
MAR 89	35		24
APR 89	29		26
MAY 89	39		7
JUN 89	27		24
JUL 89	32		35
AUG 89	42		26
SEP 89	25		4
OCT 89	36		3
NOV 89	27		7
DEC 89	40		13

TOTALS 396 0 213

TOTAL PRODUCTION 1989 609

WELL NUMBER 33

PRODUCTION

	OIL	GAS	WATER
JAN 88	22		48
FEB 88	15		60
MAR 88	35		73
APR 88	22		55
MAY 88	20		70
JUN 88	25		57
JUL 88	24		45
AUG 88	18		46
SEP 88	13		40
OCT 88	21		19
NOV 88	24		20
DEC 88	33		13

TOTALS	272	0	546
TOTAL PRODUCTION 1988	818		

WELL NUMBER 33

PRODUCTION

	OIL	GAS	WATER
JAN 89	35		7
FEB 89	29		34
MAR 89	35		48
APR 89	27		24
MAY 89	39		7
JUN 89	27		24
JUL 89	32		35
AUG 89	42		26
SEP 89	25		4
OCT 89	36		3
NOV 89	27		7
DEC 89	38		13

TOTALS	392	0	232
TOTAL PRODUCTION 1989	624		

WELL NUMBER 34

PRODUCTION			
	OIL	GAS	WATER
JAN 88	65		35
FEB 88	75		36
MAR 88	87		42
APR 88	54		37
MAY 88	52		68
JUN 88	22		36
JUL 88	50		37
AUG 88	46		34
SEP 88	26		62
OCT 88	77		37
NOV 88	27		68
DEC 88	24		112

TOTALS	605	0	604
TOTAL PRODUCTION 1988	1209		

WELL NUMBER 34

PRODUCTION			
	OIL	GAS	WATER
JAN 89	28		98
FEB 89	24		32
MAR 89	26		31
APR 89	27		66
MAY 89	29		145
JUN 89	25		32
JUL 89	26		34
AUG 89	26		84
SEP 89	25		8
OCT 89	36		10
NOV 89	27		20
DEC 89	40		27

TOTALS	339	0	587
TOTAL PRODUCTION 1989	926		

WELL NUMBER 35

PRODUCTION

	OIL	GAS	WATER
JAN 88	65		71
FEB 88	50		72
MAR 88	58		84
APR 88	27		111
MAY 88	26		102
JUN 88	70		16
JUL 88	50		74
AUG 88	46		69
SEP 88	52		62
OCT 88	77		75
NOV 88	54		68
DEC 88	72		75

TOTALS	647	0	879
TOTAL PRODUCTION 1988	1526		

WELL NUMBER 35

PRODUCTION

	OIL	GAS	WATER
JAN 89	84		65
FEB 89	48		63
MAR 89	77		77
APR 89	54		99
MAY 89	29		181
JUN 89	76		97
JUL 89	51		67
AUG 89	26		56
SEP 89	25		8
OCT 89	71		10
NOV 89	54		13
DEC 89	40		27

TOTALS	635	0	763
TOTAL PRODUCTION 1989	1398		

WELL NUMBER 37

PRODUCTION			
	OIL	GAS	WATER
JAN 88	130		71
FEB 88	75		72
MAR 88	87		42
APR 88	54		74
MAY 88	53		70
JUN 88	45		72
JUL 88	50		74
AUG 88	92		34
SEP 88	52		62
OCT 88	39		56
NOV 88	82		34
DEC 88	24		75

TOTALS	783	0	736
TOTAL PRODUCTION 1988	1519		

WELL NUMBER 37

PRODUCTION			
	OIL	GAS	WATER
JAN 89	112		33
FEB 89	48		63
MAR 89	51		39
APR 89	54		66
MAY 89	116		36
JUN 89	101		32
JUL 89	102		
AUG 89	90		32
SEP 89	73		36
OCT 89	83		61
NOV 89	72		60
DEC 89	72		55

TOTALS	974	0	513
TOTAL PRODUCTION 1989	1487		

WELL NUMBER 38

PRODUCTION

	OIL	GAS	WATER
JAN 88	33		71
FEB 88	25		36
MAR 88	29		42
APR 88	27		37
MAY 88	27		35
JUN 88	22		36
JUL 88	25		37
AUG 88	23		34
SEP 88	26		31
OCT 88	26		37
NOV 88	27		34
DEC 88	24		37

TOTALS 314 0 467

TOTAL PRODUCTION 1988 781

WELL NUMBER 38

PRODUCTION

	OIL	GAS	WATER
JAN 89	28		33
FEB 89	24		32
MAR 89	26		39
APR 89	27		33
MAY 89	29		36
JUN 89	25		32
JUL 89	26		34
AUG 89	30		32
SEP 89	24		36
OCT 89	28		30
NOV 89	24		30
DEC 89	23		27

TOTALS 314 0 394

TOTAL PRODUCTION 1989 708

WELL NUMBER 39,40

PRODUCTION

	OIL	GAS	WATER
JAN 88	66		70
FEB 88	50		72
MAR 88	58		84
APR 88	54		111
MAY 88	54		70
JUN 88	67		72
JUL 88	50		74
AUG 88	46		68
SEP 88	52		62
OCT 88	52		112
NOV 88	81		102
DEC 88	72		74

TOTALS 702 0 971

TOTAL PRODUCTION 1988 1673

WELL NUMBER 39,40

PRODUCTION

	OIL	GAS	WATER
JAN 89	84		33
FEB 89	47		93
MAR 89	52		78
APR 89	54		66
MAY 89	58		108
JUN 89	50		97
JUL 89	51		67
AUG 89	60		64
SEP 89	48		72
OCT 89	56		60
NOV 89	48		60
DEC 89	48		83

TOTALS 656 0 881

TOTAL PRODUCTION 1989 1537

WELL NUMBER **41,42**

PRODUCTION

	OIL	GAS	WATER
JAN 88	66		70
FEB 88	50		72
MAR 88	58		84
APR 88	54		111
MAY 88	54		70
JUN 88	67		72
JUL 88	50		74
AUG 88	46		68
SEP 88	52		62
OCT 88	52		112
NOV 88	81		102
DEC 88	72		74

TOTALS	702	0	971
TOTAL PRODUCTION 1988	1673		

WELL NUMBER **41,42**

PRODUCTION

	OIL	GAS	WATER
JAN 89	84		33
FEB 89	47		93
MAR 89	52		78
APR 89	54		66
MAY 89	58		108
JUN 89	50		97
JUL 89	51		67
AUG 89	60		64
SEP 89	48		72
OCT 89	56		60
NOV 89	48		60
DEC 89	48		83

TOTALS	656	0	881
TOTAL PRODUCTION 1989	1537		

WELL NUMBER 43

PRODUCTION

	OIL	GAS	WATER
JAN 88	33		35
FEB 88	25		36
MAR 88	29		42
APR 88	27		37
MAY 88	27		35
JUN 88	22		36
JUL 88	25		37
AUG 88	23		34
SEP 88	26		31
OCT 88	26		37
NOV 88	27		68
DEC 88	24		75

TOTALS	314	0	503
TOTAL PRODUCTION 1988	817		

WELL NUMBER 43

PRODUCTION

	OIL	GAS	WATER
JAN 89	28		33
FEB 89	22		29
MAR 89	26		39
APR 89	27		33
MAY 89	29		36
JUN 89	25		32
JUL 89	26		34
AUG 89	30		32
SEP 89	24		36
OCT 89	28		30
NOV 89	24		30
DEC 89	48		28

TOTALS	337	0	392
TOTAL PRODUCTION 1989	729		

WELL NUMBER **48**

PRODUCTION

	OIL	GAS	WATER
JAN 88	98		141
FEB 88	50		179
MAR 88	58		168
APR 88	54		148
MAY 88	53		141
JUN 88	67		108
JUL 88	75		74
AUG 88	92		34
SEP 88	103		31
OCT 88	180		112
NOV 88	136		102
DEC 88	144		75

TOTALS	1110	0	1313
TOTAL PRODUCTION 1988	2423		

WELL NUMBER **48**

PRODUCTION

	OIL	GAS	WATER
JAN 89	167		130
FEB 89	96		189
MAR 89	128		194
APR 89	135		165
MAY 89	145		181
JUN 89	76		97
JUL 89	128		101
AUG 89	120		94
SEP 89	49		145
OCT 89	83		121
NOV 89	48		181
DEC 89	53		184

TOTALS	1228	0	1782
TOTAL PRODUCTION 1989	3010		

WELL NUMBER 50

PRODUCTION

	OIL	GAS	WATER
JAN 88	33		707
FEB 88	25		538
MAR 88	29		756
APR 88	27		705
MAY 88	26		545
JUN 88	21		639
JUL 88	25		738
AUG 88	23		687
SEP 88	26		743
OCT 88	25		685
NOV 88	27		580
DEC 88	24		673

TOTALS	311	0	7996
TOTAL PRODUCTION 1988	8307		

WELL NUMBER 50

PRODUCTION

	OIL	GAS	WATER
JAN 89	28		879
FEB 89	21		759
MAR 89	25		712
APR 89	27		628
MAY 89	29		470
JUN 89	25		678
JUL 89	24		566
AUG 89	27		583
SEP 89	24		687
OCT 89	28		636
NOV 89	48		754
DEC 89	50		716

TOTALS	356	0	8068
TOTAL PRODUCTION 1989	8424		

WELL NUMBER 51

PRODUCTION

	OIL	GAS	WATER
JAN 88	33		71
FEB 88	25		36
MAR 88	58		42
APR 88	54		37
MAY 88	53		35
JUN 88	43		35
JUL 88	50		37
AUG 88	23		69
SEP 88	26		62
OCT 88	26		75
NOV 88	27		68
DEC 88	24		37

TOTALS	442	0	604
TOTAL PRODUCTION 1988	1046		

WELL NUMBER 51

PRODUCTION

	OIL	GAS	WATER
JAN 89	28		33
FEB 89	24		32
MAR 89	25		37
APR 89	27		66
MAY 89	58		36
JUN 89	25		65
JUL 89	26		67
AUG 89	30		32
SEP 89	24		36
OCT 89	28		61
NOV 89	23		58
DEC 89	23		53

TOTALS	341	0	576
TOTAL PRODUCTION 1989	917		

WELL NUMBER 52

PRODUCTION			
	OIL	GAS	WATER
JAN 88	65		1096
FEB 88	50		1040
MAR 88	58		1176
APR 88	54		1039
MAY 88	53		1479
JUN 88	19		991
JUL 88	49		1072
AUG 88	45		1495
SEP 88	26		1548
OCT 88	51		1118
NOV 88	54		1807
DEC 88	48		1759

TOTALS	572	0	15620
TOTAL PRODUCTION 1988	16192		

WELL NUMBER 52

PRODUCTION			
	OIL	GAS	WATER
JAN 89	28		1531
FEB 89	46		1458
MAR 89	50		1461
APR 89	54		1520
MAY 89	29		1228
JUN 89	25		1486
JUL 89	26		1413
AUG 89	30		1516
SEP 89	24		1266
OCT 89	55		1788
NOV 89	48		1237
DEC 89	53		1622

TOTALS	468	0	17526
TOTAL PRODUCTION 1989	17994		

WELL NUMBER 53

PRODUCTION

	OIL	GAS	WATER
JAN 88	33		35
FEB 88	25		36
MAR 88	58		84
APR 88	54		74
MAY 88	27		35
JUN 88	21		236
JUL 88	25		111
AUG 88	23		103
SEP 88	26		31
OCT 88	26		75
NOV 88	27		102
DEC 88	24		75

TOTALS	369	0	997
TOTAL PRODUCTION 1988	1366		

WELL NUMBER 53

PRODUCTION

	OIL	GAS	WATER
JAN 89	28		65
FEB 89	24		95
MAR 89	26		77
APR 89	27		66
MAY 89	29		72
JUN 89	25		65
JUL 89	26		101
AUG 89	30		65
SEP 89	24		108
OCT 89	28		61
NOV 89	24		60
DEC 89	23		53

TOTALS	314	0	888
TOTAL PRODUCTION 1989	1202		

WELL NUMBER 54,55,56

PRODUCTION			
	OIL	GAS	WATER
JAN 88	66		282
FEB 88	50		287
MAR 88	58		420
APR 88	54		371
MAY 88	54		281
JUN 88	43		272
JUL 88	50		369
AUG 88	115		172
SEP 88	78		155
OCT 88	77		186
NOV 88	53		166
DEC 88	72		187

TOTALS	770	0	3148
TOTAL PRODUCTION 1988	3918		

WELL NUMBER 54,55,56

PRODUCTION			
	OIL	GAS	WATER
JAN 89	56		228
FEB 89	48		284
MAR 89	52		387
APR 89	54		198
MAY 89	58		289
JUN 89	50		227
JUL 89	103		471
AUG 89	60		226
SEP 89	48		289
OCT 89	83		243
NOV 89	72		302
DEC 89	74		338

TOTALS	758	0	3482
TOTAL PRODUCTION 1989	4240		

WELL NUMBER 58

PRODUCTION

	OIL	GAS	WATER
JAN 88	6		7
FEB 88	200		36
MAR 88	195		35
APR 88	27		37
MAY 88	27		35
JUN 88	22		36
JUL 88	23		35
AUG 88	22		32
SEP 88	26		31
OCT 88	26		37
NOV 88	27		34
DEC 88	24		37

TOTALS	625	0	392
TOTAL PRODUCTION 1988	1017		

WELL NUMBER 58

PRODUCTION

	OIL	GAS	WATER
JAN 89	28		33
FEB 89	24		32
MAR 89	26		39
APR 89	27		33
MAY 89	29		36
JUN 89	25		32
JUL 89	26		67
AUG 89	30		32
SEP 89	24		36
OCT 89	28		30
NOV 89	24		30
DEC 89	24		28

TOTALS	315	0	428
TOTAL PRODUCTION 1989	743		

WELL NUMBER 60

PRODUCTION

	OIL	GAS	WATER
JAN 88	65		141
FEB 88	50		143
MAR 88	58		168
APR 88	54		148
MAY 88	53		141
JUN 88	22		144
JUL 88	56		148
AUG 88	92		69
SEP 88	24		145
OCT 88	26		186
NOV 88	54		102
DEC 88	96		112

TOTALS 650 0 1647

TOTAL PRODUCTION 1988 2297

WELL NUMBER 60

PRODUCTION

	OIL	GAS	WATER
JAN 89	28		163
FEB 89	72		95
MAR 89	102		116
APR 89	81		99
MAY 89	87		145
JUN 89	76		97
JUL 89	50		163
AUG 89	90		129
SEP 89	49		181
OCT 89	55		152
NOV 89	48		181
DEC 89	50		172

TOTALS 788 0 1693

TOTAL PRODUCTION 1989 2481

WELL NUMBER 62

PRODUCTION

	OIL	GAS	WATER
JAN 88	644		811
FEB 88	526		789
MAR 88	582		924
APR 88	487		817
MAY 88	507		739
JUN 88	462		584
JUL 88	550		809
AUG 88	467		598
SEP 88	525		539
OCT 88	449		722
NOV 88	463		648
DEC 88	527		673

TOTALS	6189	0	8653
TOTAL PRODUCTION 1988	<u>14842</u>		

WELL NUMBER 62

PRODUCTION

	OIL	GAS	WATER
JAN 89	405		567
FEB 89	509		881
MAR 89	520		637
APR 89	458		628
MAY 89	436		578
JUN 89	506		549
JUL 89	421		586
AUG 89	360		677
SEP 89	512		832
OCT 89	442		576
NOV 89	528		634
DEC 89	475		601

TOTALS	5572	0	7746
TOTAL PRODUCTION 1989	<u>13318</u>		

WELL NUMBER 64

PRODUCTION			
	OIL	GAS	WATER
JAN 88	94		171
FEB 88	75		215
MAR 88	87		210
APR 88	81		186
MAY 88	77		136
JUN 88	40		162
JUL 88	75		148
AUG 88	46		240
SEP 88	26		217
OCT 88	77		186
NOV 88	82		205
DEC 88	72		112

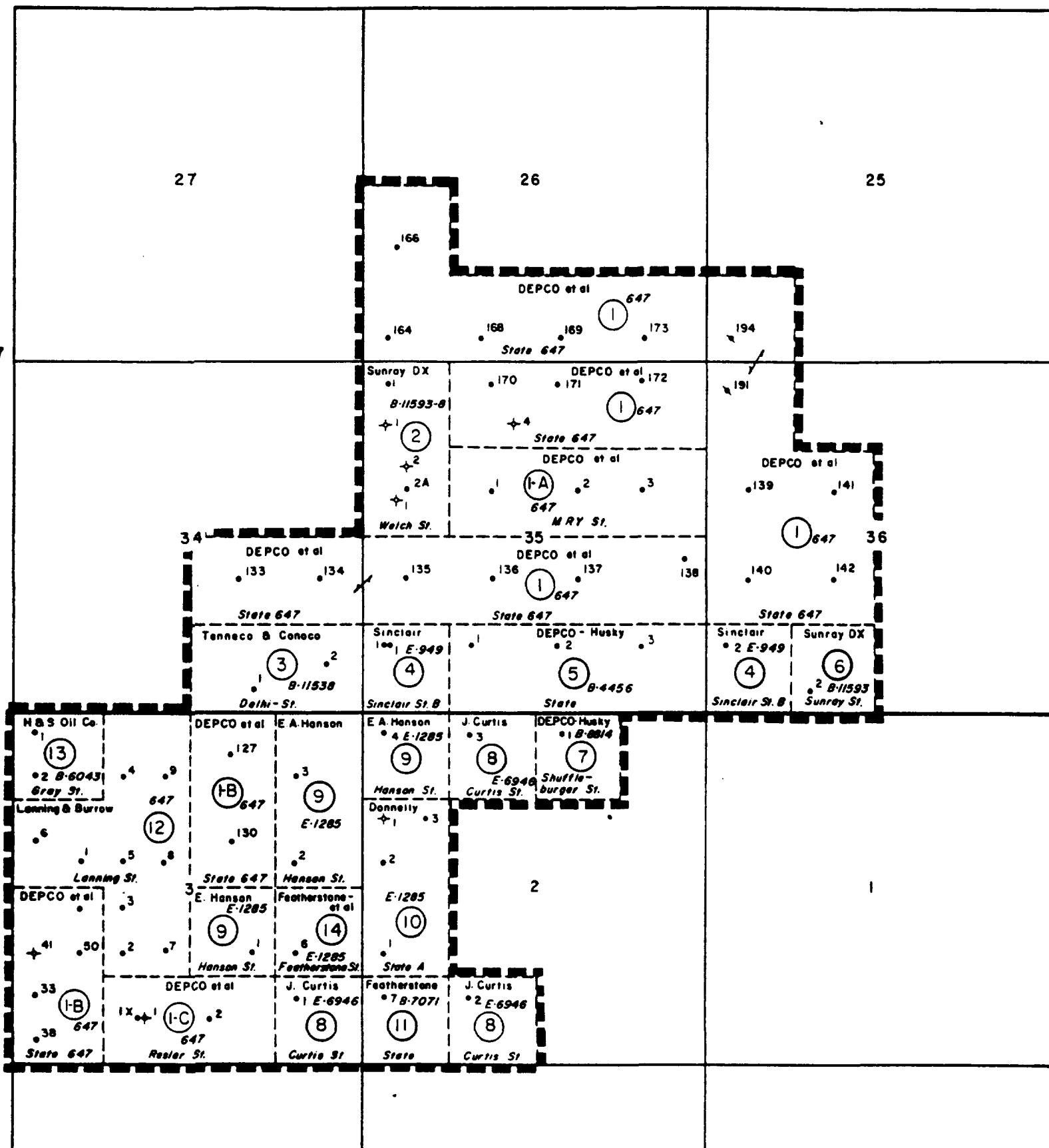
TOTALS	832	0	2188
TOTAL PRODUCTION 1988	3020		

WELL NUMBER 64

PRODUCTION			
	OIL	GAS	WATER
JAN 89	78		91
FEB 89	120		95
MAR 89	77		310
APR 89	81		231
MAY 89	116		217
JUN 89	76		162
JUL 89	51		135
AUG 89	120		258
SEP 89	49		181
OCT 89	55		212
NOV 89	24		241
DEC 89	53		153

TOTALS	900	0	2286
TOTAL PRODUCTION 1989	3186		

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**EXHIBIT A**

TO
UNIT AGREEMENT
ARTESIA UNIT

Eddy County, New Mexico

LEGEND

--- UNIT BOUNDARY

④ UNIT TRACT NUMBER

[illegible]

SUPPLEMENT TO EXHIBIT "B"

OF UNIT AGREEMENT EFFECTIVE FEBRUARY 1, 1968,

ARTESIA UNIT, EDDY COUNTY, NEW MEXICO

DATE: January 11, 1990 - Showing Working Interest Owner and Participation

<u>TRACT NO.</u>	<u>NO. OF ACRES</u>	<u>WORKING INTEREST OWNER AND PERCENTAGE</u>	<u>PERCENTAGE OF UNIT PARTICIPATION</u>
1	800.00	DEKALB Energy Company 32.9861 Marathon Oil Company 32.9861 Yates Petroleum Corporation 34.0278	7.3581 7.3581 <u>7.5905</u> 22.3067
1-A	120.00	DEKALB Energy Company 32.9861 Marathon Oil Company 32.9861 Yates Petroleum Corporation 34.0278	1.5585 1.5585 <u>1.6077</u> 4.7247
1-B	80.00	DEKALB Energy Company 32.9861 Marathon Oil Company 32.9861 Yates Petroleum Corporation 34.0278	3.9380 3.9380 <u>4.0623</u> 11.9383
1-C	80.00	DEKALB Energy Company 32.9861 Marathon Oil Company 32.9861 Yates Petroleum Corporation 34.0278	1.4739 1.4739 <u>1.5204</u> 4.4682
2	80.00	DEKALB Energy Company 32.9861 Marathon Oil Company 32.9861 Yates Petroleum Corporation 34.0278	0.9747 0.9747 <u>1.0056</u> 2.9550
3	80.00	DEKALB Energy Company 32.9861 Marathon Oil Company 32.9861 Yates Petroleum Corporation 34.0278	1.3974 1.3974 <u>1.4415</u> 4.2363
4	80.00	DEKALB Energy Company 32.9861 Marathon Oil Company 32.9861 Yates Petroleum Corporation 34.0278	1.5941 1.5941 <u>1.6445</u> 4.8327
5	120.00	DEKALB Energy Company 32.9861 Marathon Oil Company 32.9861 Yates Petroleum Corporation 34.0278	1.1304 1.1304 <u>1.1660</u> 3.4268
6	40.00	DEKALB Energy Company 32.9861 Marathon Oil Company 32.9861 Yates Petroleum Corporation 34.0278	0.1561 1.1561 <u>0.1610</u> 0.4732
7	40.08	DEKALB Energy Company 32.9861 Marathon Oil Company 32.9861 Yates Petroleum Corporation 34.0278	0.3401 0.3401 <u>0.3507</u>

**SUPPLEMENT TO EXHIBIT "B" - CONTINUED
OF UNIT AGREEMENT
ARTESIA UNIT**

<u>TRACT NO.</u>	<u>NO. OF ACRES</u>	<u>WORKING INTEREST OWNER AND PERCENTAGE</u>	<u>PERCENTAGE OF UNIT PARTICIPATION</u>
8	120.13	DEKALB Energy Company 32.9861 Marathon Oil Company 32.9861 Yates Petroleum Corporation 34.0278	2.3057 2.3057 <u>2.3786</u> 6.9900
9	160.34	DEKALB Energy Company 32.9861 Marathon Oil Company 32.9861 Yates Petroleum Corporation 34.0278	1.8745 1.8745 <u>1.9337</u> 5.6827
10	80.00	DEKALB Energy Company 32.9861 Marathon Oil Company 32.9861 Yates Petroleum Corporation 34.0278	1.1598 1.1598 <u>1.1964</u> 3.5160
11	40.00	DEKALB Energy Company 32.9861 Marathon Oil Company 32.9861 Yates Petroleum Corporation 34.0278	0.4702 0.4702 <u>0.4850</u> 1.4254
12	160.08	DEKALB Energy Company 32.9861 Marathon Oil Company 32.9861 Yates Petroleum Corporation 34.0278	5.2754 5.2754 <u>5.4421</u> 15.9929
13	40.02	DEKALB Energy Company 32.9861 Marathon Oil Company 32.9861 Yates Petroleum Corporation 34.0278	1.2179 1.2179 <u>1.2563</u> 3.6921
14	40.00	DEKALB Energy Company 32.9861 Marathon Oil Company 32.9861 Yates Petroleum Corporation 34.0278	0.7614 0.7614 <u>0.7853</u> 2.3081
TOTAL	<u>2,240.78</u>		<u>100.0000</u>

DEKALB Energy Company
1625 Broadway
Denver, Colorado 80202

32.9861

Marathon Oil Company
Post Office Box 3128
Attention: Contracts
Houston, Texas 77253

32.9861

Yates Petroleum Corporation
105 West Fourth Street
Artesia, New Mexico 88210

34.0278

100.0000