

MERIDIAN OIL

Memorandum

TO: Ms. Karen Hopkins

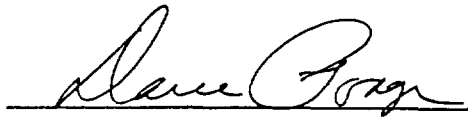
DATE: February 27, 1990

FROM: D.M. Poage

LOCATION: Land Department
Farmington, NM

RE: GLA-46

Enclosed for your use are copies of the lists prepared to cover leases, wells and ownership of the GLA-46 acreage. The ownership lists show both the Umbach and Dacresa Groups.



DMP:ch
Enclosure
File: GLA-46

000529

Exhibit "1"

Umbach Group
Division of Interest

<u>Owner Name</u>	<u>Interest</u>
1. Estate of Paul Umbach	75.0000%
2. Lowell White Family Trust	6.2500%
3. Walter A. Steele	6.2500%
4. Estate of G. W. Hannett	5.2083%
5. T. G. Cornish	4.1666%
6. Patricia Hueter	1.0417%
7. Mary Emily Voller	1.0417%
8. A. T. Hannett II	<u>1.0417%</u>
Total	100.0000%

000540

Exhibit "2"

Dacresa Group
Division of Interest

<u>Owner Name</u>	<u>Interest</u>
1. Walter O. Berger	8.587439%
2. Edith R. Briggs Revocable Trust	4.295142%
3. Herbert R. Briggs	2.147571%
4. William C. Briggs	2.144726%
5. Frank A. Cronican, Jr. and Peter B. Cronican, Trustees for Frank A. Cronican, Sr. and Harriett B. Cronican Trust	4.809990%
6. Cyrene L. Inman	4.235408%
7. C. Fred Luthy, Jr.	4.235408%
8. Cyrene F. Mapel	12.709068%
9. Roger B. Nielsen	8.587439%
10. Mrs. Cheryl L. Potenziani	3.953806%
11. Carolyn Nielsen Sedberry	8.587439%
12. Frank A. Potenziani Potenziani Family Partnership	0.284446%
13. Minatome Corporation	<u>35.422118%</u>
Total	100.000000%

000541

Exhibit "3"

Lease Interests

<u>File No.</u>	<u>Lessor</u>	<u>Description</u> (All San Juan County, N.M.)	<u>Owner Information</u>
1) NM-366	Joe W. Ash	T31N, R10W Sec. 3: Portion of NW/4 NW/4 1.00 Acre	Umbach Group - 7.143% Minatome - 17.857% EPPC - <u>25.000%</u> 50.000%
2) NM-367	Harold W. Rice, et ux	T31N, R10W Sec. 3: Portion of NW/4 NW/4 1.00 Acre	Umbach Group - 7.143% Minatome - 17.857% EPPC - <u>25.000%</u> 50.000%
3) NM-368	G. T. Lackey, et ux	T31N, R10W Sec. 23: NE/4 SE/4 Sec. 24: NW/4 SW/4 80.00 Acres	Umbach Group - 3.125% Minatome - 18.750% Amoco - 28.125% EPPC - <u>50.000%</u> 100.000%
4) NM-369	M. H. Ford, et ux	T31N, R10W Sec. 14: SW/4 NW/4 Sec. 15: SE/4 NW/4 80.00 Acres	Umbach Group - 0.195312% Minatome - 1.171875% Amoco - 1.757813% EPPC - <u>3.125000%</u> 6.250000%
5) NM-369A	D. L. Malone, et ux	T31N, R10W Sec. 14: SW/4 NW/4 Sec. 15: SE/4 NW/4 80.00 Acres	Umbach Group - 0.195312% Minatome - 1.171875% Amoco - 1.757813% EPPC - <u>3.125000%</u> 6.250000%
6) NM-369B	A. F. Reese, et ux	T31N, R10W Sec. 14: SW/4 NW/4 40.00 Acres	Umbach Group - 0.781250% Minatome - 4.687500% Amoco - 7.031250% EPPC - <u>12.500000%</u> 25.000000%
7) NM-369C	Katherine Reese Shepherd, et vir	T31N, R10W Sec. 15: SE/4 NW/4 40.00 Acres	Umbach Group - 0.781250% Minatome - 4.687500% Amoco - 7.031250% EPPC - <u>12.500000%</u> 25.000000%
NM-369D	G. T. Lackey, et ux	T31N, R10W Sec. 14: SW/4 NW/4 Sec. 15: SE/4 NW/4 80.00 Acres	Umbach Group - 0.195312% Minatome - 1.171875% Amoco - 1.757813% EPPC - <u>3.125000%</u> 6.250000%

000512

Exhibit "3"

Lease Interests

<u>File No.</u>	<u>Lessor</u>	<u>Description</u> (All San Juan County, N.M.)	<u>Owner Information</u>
9) NM-371	Ben Case, et al	T31N, R10W Sec. 4: NW/4 SW/4 40.00 Acres	Dacresa Group - 50.000% EPPC - 50.000% 100.000%
10) NM-373	Gladys E. Dejarnette, et vir	T31N, R10W Sec. 14: E/2 SW/4, NW/4 SW/4 120.00 Acres	Umbach Group - 3.125% Minatome - 18.750% Amoco - 28.125% EPPC - 50.000% 100.000%
11) NM-374	Charles A. Wood, et ux	T31N, R10W Sec. 3: Lot 4 39.00 Acres	Dacresa Group - 50.000% EPPC - 50.000% 100.000%
12) NM-375	USA SF 078604	<u>T31N, R10W</u> Sec. 3: Lots 5-9, S/2 NW/4 Sec. 4: Lot 5, E/2 SW/4 Sec. 8: Lots 1, 2, 4, 5 Sec. 9: Lots 1, 2, NE/4 NW/4 Sec. 17: Lots 1-10 <u>T32N, R10W</u> Sec. 29: Lots 1-8, NW/4 Sec. 31: Lots 5, 6, 11-14, 19, 20 Sec. 34: Lots 1, 2, 4-7, 10, 11 2157.65 Acres	Umbach Group - 3.125% Minatome - 18.750% Amoco - 28.125% EPPC - 50.000% 100.000%
13) NM-376	State of New Mexico B-11318-29	T31N, R10W Sec. 16: NW/4 SW/4 40.00 Acres	Umbach Group - 2.50% Minatome - 30.00% Amoco - 17.50% EPPC - 50.00% 100.00%
14) NM-377	State of New Mexico B-10405-49	T31N, R10W Sec. 16: SE/4 SW/4 40.00 Acres	Umbach Group - 2.50% Minatome - 30.00% Amoco - 17.50% EPPC - 50.00% 100.00%
15) NM-378	State of New Mexico B-11124-28	T31N, R10W Sec. 16: SE/4 NE/4 40.00 Acres	Umbach Group - 2.50% Minatome - 30.00% Amoco - 17.50% EPPC - 50.00% 100.00%

000513

Exhibit "3"

Lease Interests

<u>File No.</u>	<u>Lessor</u>	<u>Description</u> (All San Juan County, N.M.)	<u>Owner Information</u>
16) NM-378A	State of New Mexico B-11124-32	T31N, R10W Sec. 32: SW/4 SE/4 40.00 Acres	Umbach Group - 2.50% Minatome - 30.00% Amoco - 17.50% EPPC - <u>50.00%</u> 100.00%
17) NM-378B	State of New Mexico B-11124-29	T30N, R10W Sec. 2: Lot 3 40.33 Acres	Umbach Group - 2.50% Minatome - 30.00% Amoco - 17.50% EPPC - <u>50.00%</u> 100.00%
18) NM-378C	State of New Mexico B-11124-30	T30N, R10W Sec. 16: NW/4 SE/4 40.00 Acres	Umbach Group - 2.50% Minatome - 30.00% Amoco - 17.50% EPPC - <u>50.00%</u> 100.00%
19) NM-378D	State of New Mexico B-11124-31	T30N, R10W Sec. 16: NW/4 SW/4 40.00 Acres	Umbach Group - 2.50% Minatome - 30.00% Amoco - 17.50% EPPC - <u>50.00%</u> 100.00%
20) NM-379	State of New Mexico B-10405-50	T30N, R10W Sec. 16: SW/4 SE/4 40.00 Acres	Umbach Group - 2.50% Minatome - 30.00% Amoco - 17.50% EPPC - <u>50.00%</u> 100.00%
21) NM-379A	State of New Mexico B-10405-51	T31N, R10W Sec. 23: NE/4 NW/4 40.00 Acres	Umbach Group - 2.50% Minatome - 30.00% Amoco - 17.50% EPPC - <u>50.00%</u> 100.00%
22) NM-380	State of New Mexico E-70-22	T31N, R10W Sec. 16: SE/4 SW/4 40.00 Acres	Umbach Group - 2.50% Minatome - 30.00% Amoco - 17.50% EPPC - <u>50.00%</u> 100.00%
3) NM-381	State of New Mexico E-286-23	T31N, R10W Sec. 16: NW/4 SE/4 40.00 Acres	Umbach Group - 2.50% Minatome - 30.00% Amoco - 17.50% EPPC - <u>50.00%</u> 100.00%

000544

Exhibit "3"

Lease Interests

<u>File No.</u>	<u>Lessor</u>	<u>Description</u> (All San Juan County, N.M.)	<u>Owner In</u>
24) NM-382	State of New Mexico E-286-24	T31N, R10W Sec. 16: NW/4 NE/4 40.00 Acres	Umbach Group Minatome Amoco EPPC
25) NM-383	State of New Mexico B-11505-51	T32N, R11W Sec. 32: NW/4 SW/4 40.00 Acres	Umbach Group - 3.125% Minatome - 18.750% Amoco - 28.125% EPPC - <u>50.000%</u> 100.000%
26) NM-384	State of New Mexico B-11318-28	T32N, R11W Sec. 32: NE/4 SE/4 40.00 Acres	Umbach Group - 3.125% Minatome - 18.750% Amoco - 28.125% EPPC - <u>50.000%</u> 100.000%
27) NM-385	State of New Mexico B-11318-27	T32N, R11W Sec. 32: SW/4 SW/4 40.00 Acres	Umbach Group - 3.125% Minatome - 18.750% Amoco - 28.125% EPPC - <u>50.000%</u> 100.000%
28) NM-286	State of New Mexico B-11513-14	T31N, R11W Sec. 16: NW/4 SE/4 40.00 Acres	Minatome - 50.00% EPPC - <u>50.00%</u> 100.00%
29) NM-387	State of New Mexico B-11017-29	T31N, R10W Sec. 32: SW/4 NW/4 40.00 Acres	Umbach Group - 2.50% Minatome - 30.00% Amoco - 17.50% EPPC - <u>50.00%</u> 100.00%
30) NM-387A	State of New Mexico B-11017-47	T31N, R11W Sec. 16: SW/4 SE/4 40.00 Acres	Dacresa Group - 50.00% EPPC - <u>50.00%</u> 100.00%
31) NM-387C	State of New Mexico B-11017-28	T31N, R11W Sec. 16: SE/4 NE/4, SE/4 SE/4 80.00 Acres	Minatome - 50.00% EPPC - <u>50.00%</u> 100.00%
32) NM-387D	State of New Mexico B-11017-46	T31N, R11W Sec. 16: NE/4 NE/4, NE/4 SE/4 80.00 Acres	Dacresa Group - 50.00% EPPC - <u>50.00%</u> 100.00%

000545

Exhibit "3"

Lease Interests

<u>File No.</u>	<u>Lessor</u>	<u>Description</u> (All San Juan County, N.M.)	<u>Owner Information</u>
33) NM-388	State of New Mexico E-1203-2	T30N, R9W Sec. 2: NE/4 SE/4 40.00 Acres	Minatome - 50.00% EPPC - 50.00% 100.00%
34) NM-390	State of New Mexico B-11242-30	T30N, R10W Sec. 16: NW/4 NW/4 40.00 Acres	Umbach Group - 2.50% Minatome - 30.00% Amoco - 17.50% EPPC - 50.00% 100.00%
35) NM-392	State of New Mexico B-11419-14	T31N, R11W Sec. 2: SE/4 SW/4 40.00 Acres	Umbach Group - 3.125% Minatome - 25.000% Amoco - 21.875% EPPC - 50.000% 100.000%
36) NM-394	State of New Mexico B-10405-52	T31N, R10W Sec. 16: SE/4 SE/4 40.00 Acres	Umbach Group - 2.50% Minatome - 30.00% Amoco - 17.50% EPPC - 50.00% 100.00%
37) NM-394A	State of New Mexico B-10405-54	T31N, R10W Sec. 23: NW/4 NE/4 40.00 Acres	Dacresa Group - 50.00% EPPC - 50.00% 100.00%
38) NM-395	State of New Mexico E-7674	T31N, R11W Sec. 16: NE/4 NW/4, NW/4 NE/4 80.00 Acres	Dacresa Group - 50.00% EPPC - 50.00% 100.00%
39) NM-396	USA SF 078316B	T31N, R10W Sec. 13: Lots 3, 4 Sec. 14: Lot 10 109.62 Acres	Umbach Group - 4.167% Minatome - 16.666% Amoco - 29.167% EPPC - 50.000% 100.000%
40) NM-4150	State of New Mexico E-3150-3	T31N, R11W Sec. 16: SW/4 NE/4 40.00 Acres	Minatome - 50.00% EPPC - 50.00% 100.00%
.) NM-389	State of New Mexico E-6001-3	T27N, R8W Sec. 36: SE/4 NW/4 40.00 Acres	Dacresa Group - 50.00% EPPC - 50.00% 100.00%

000516

Exhibit "3"

Lease Interests

<u>File No.</u>	<u>Lessor</u>	<u>Description</u> (All San Juan County, N.M.)	<u>Owner Information</u>
42) NM-389A	State of New Mexico E-6001-2	T27N, R8W Sec. 36: NE/4 NW/4 40.00 Acres	Minatome - 37.50% Amoco - 12.50% EPPC - <u>50.00%</u> 100.00%
43) NM-391	State of New Mexico B-11125-47	T27N, R8W Sec. 36: SW/4 NW/4 40.00 Acres	Minatome - 50.00% EPPC - <u>50.00%</u> 100.00%
44) NM-391A	State of New Mexico B-11125-68	T27N, R8W Sec. 36: NW/4 NW/4 40.00 Acres	Dacresa Group - 50.00% EPPC - <u>50.00%</u> 100.00%
45) NM-391B	State of New Mexico B-11125-50	T27N, R8W Sec. 36: NE/4 SW/4 40.00 Acres	Minatome - 50.00% EPPC - <u>50.00%</u> 100.00%
46) NM-391C	State of New Mexico B-11125-70	T27N, R8W Sec. 36: NW/4 SE/4 40.00 Acres	Dacresa Group - 50.00% EPPC - <u>50.00%</u> 100.00%
47) NM-391D	State of New Mexico B-11125-52	T27N, R8W Sec. 36: SW/4 SE/4 40.00 Acres	Minatome - 50.00% EPPC - <u>50.00%</u> 100.00%
48) NM-391E	State of New Mexico B-11125-53	T27N, R8W Sec. 36: SE/4 SE/4 40.00 Acres	Umbach Group - 2.50% Minatome - 40.00% Amoco - 7.50% EPPC - <u>50.00%</u> 100.00%
49) NM-391F	State of New Mexico B-11125-69	T27N, R8W Sec. 36: NW/4 SW/4 40.00 Acres	Dacresa Group - 50.00% EPPC - <u>50.00%</u> 100.00%
50) NM-393	USA SF 079034	T26N, R7W Sec. 24: SE/4 160.00 Acres	Dacresa Group - 28.16600% Umbach Group - 2.72925% Minatome - 5.45850% Amoco - 13.64625% EPPC - <u>50.00000%</u> 100.00000%

0005-17

Exhibit "4"

Wells

Wells with leases subject to GLA-46 are listed below. Well-by-well ownership is not shown as it was anticipated reserves would be applied to the section then allocated on a lease basis.

<u>Location</u>	<u>Well Name</u>	<u>Dedication</u>	<u>Formation</u>
<u>T32N, R11W</u>			
Section 32	1. Sinclair Com M #1	S/2	Mesaverde
	2. Sinclair Com M #1A	S/2	Mesaverde
<u>T32N, R10W</u>			
Section 29	3. Scott #1	N/2	Mesaverde
	4. Scott #1A	N/2	Mesaverde
	5. Scott #3	S/2	Mesaverde*
	6. Scott #3A	S/2	Mesaverde*
	7. Scott #20	NW/4	Pictured Cliffs
	8. Scott #21	NE/4	Pictured Cliffs
	9. Scott #100	N/2	Fruitland Coal
	*Amoco operates		
Section 31	10. Scott #2	E/2	Mesaverde (P&A)
	11. Scott #2A	E/2	Pictured Cliffs/Mesaverde Dual
	12. Scott #2R	E/2	Mesaverde
	13. Scott #16	NE/4	Pictured Cliffs
	14. Scott #101	E/2	Fruitland Coal
Section 34	15. Scott #5	E/2	Mesaverde
	16. Scott #5A	E/2	Mesaverde
	17. Scott #18	NE/4	Pictured Cliffs (P&A)
	18. Scott #19	SE/4	Pictured Cliffs
	19. Scott #102	E/2	Fruitland Coal
<u>T31N, R11W</u>			
Section 1:	20. Smyers Com #1	W/2	Mesaverde*
	21. Smyers Com #1A	W/2	Mesaverde*
	*Amoco operates		

000518

Exhibit "4"

Wells

<u>Location</u>	<u>Well Name</u>	<u>Dedication</u>	<u>Forma</u>
<u>T31N, R11W (Continued)</u>			
Section 16:	22. State Gas Com K #1	W/2	Mesaverde*
	23. Brookhaven Com B #3	E/2	Mesaverde
	24. Brookhaven Com B #3A	E/2	Mesaverde
	25. Brookhaven Com G #9	E/2	Dakota
	26. Brookhaven Com H #10	NE/4	Pictured Cliffs
	27. Brookhaven Com L #14	SE/4	Pictured Cliffs
	*BHP Petroleum operates		

T31N, R10W

Section 3:	28. Scott #7	N/2	Mesaverde
	29. Scott #7A	N/2	Mesaverde
	30. Scott #12	NE/4	Pictured Cliffs
	31. Scott #13	NW/4	Pictured Cliffs
Section 4:	32. Scott #6	S/2	Mesaverde
	33. Scott #6A	S/2	Mesaverde
	34. Scott #10	SW/4	Pictured Cliffs
Section 8:	35. Marcotte #1	E/2	Mesaverde
	36. Marcotte #1A	E/2	Mesaverde
	37. Scott #14	SE/4	Pictured Cliffs
Section 9:	38. Lucerne A #1	W/2	Mesaverde
	39. Lucerne A #1A	W/2	Mesaverde
	40. Scott #11	NW/4	Pictured Cliffs

Sections 13 and 14: Acreage dedicated to San Juan 32-9 Unit.
Participating Area Percentages:

(1) Nacimiento (Initial) - 30.769231%
(2) Pictured Cliffs (4th) - 4.882063%
(3) Mesaverde (32nd) - 0.646837%

Section 15:	41. Kelly A #1	W/2	Mesaverde
	42. Kelly A #1A	W/2	Mesaverde
	43. Kelly A #5	NW/4	Pictured Cliffs
Section 16:	44. Brookhaven Com #1	W/2	Mesaverde
	45. Brookhaven Com #1A	W/2	Mesaverde
	46. Brookhaven Com K #13	SW/4	Pictured Cliffs
	47. Brookhaven Com M #15	NW/4	Pictured Cliffs
	48. Brookhaven Com A #2	E/2	Mesaverde
	49. Brookhaven Com A #2A	E/2	Pictured Cliffs/Mesaverde Dual
	50. Brookhaven Com J #12	NE/4	Pictured Cliffs

000513

Exhibit "4"

Wells

<u>Location</u>	<u>Well Name</u>	<u>Dedication</u>	<u>Formation</u>
<u>T31N, R10W (Continued)</u>			
Section 17:	51. Scott #4	E/2	Mesaverde
	52. Scott #4A	E/2	Mesaverde
	53. Scott #8	SE/4	Pictured Cliffs
	54. Scott #9	NW/4	Pictured Cliffs
	55. Scott #22	NE/4	Pictured Cliffs
	56. Hudson #5	W/2	Mesaverde
	57. Hudson #5A	W/2	Mesaverde
Section 23:	58. Atlantic Com C #10	NW/4	Pictured Cliffs
	59. Atlantic Com B #8	W/2	Mesaverde
	60. Atlantic Com B #8A	W/2	Mesaverde
	61. Atlantic Com A #7	E/2	Mesaverde
	62. Atlantic Com A #7A	E/2	Mesaverde
	63. Atlantic #13	SE/4	Pictured Cliffs
	64. Atlantic Com D #11	NE/4	Pictured Cliffs
Section 24:	65. Atlantic Com #3	W/2	Mesaverde*
	66. Atlantic Com #3A	W/2	Mesaverde*
	67. Atlantic #17	SW/4	Pictured Cliffs*
*Amoco operates			
Section 32:	68. EPNG Com B #3	W/2	Mesaverde*
	69. EPNG Com B #3A	W/2	Mesaverde*
	70. EPNG Com H #9	NW/4	Pictured Cliffs*
	71. Sunray K Com #1	E/2	Mesaverde
	72. Sunray K Com #1A	E/2	Mesaverde
	73. Atlantic D Com M #14	SE/4	Pictured Cliffs
*Amoco operates			
<u>T30N, R10W</u>			
Section 2:	74. Atlantic D Com D #5	W/2	Mesaverde*
	75. Atlantic D Com D #5A	W/2	Mesaverde*
	76. Atlantic D Com N #15	NW/4	Pictured Cliffs*
*Amoco operates			
Section 16:	77. Atlantic D Com B #3	N/2	Mesaverde (TA)
	78. Atlantic D Com B #3A	N/2	Mesaverde
	79. Atlantic D Com L #13	SE/4	Pictured Cliffs
	80. Atlantic D Com E #6	S/2	Mesaverde (P&A)
	81. Atlantic D Com E #6R	S/2	Mesaverde
	82. Atlantic D Com J #11	NW/4	Pictured Cliffs

000550

Exhibit "4"

Wells

<u>Location</u>	<u>Well Name</u>	<u>Dedication</u>	<u>Formation</u>
<u>T30N, R9W</u>			
Section 2:	83. Turner B Com A #2	E/2	Mesaverde
	84. Turner B Com A #2A	E/2	Mesaverde
	85. Turner B Com A #200	E/2	Fruitland Coal
<u>T27N, R8W</u>			
Section 36:	86. Brookhaven Com C #4	SW/4	Pictured Cliffs (P&A)
	87. Brookhaven Com D #5	NW/4	Pictured Cliffs
	88. Brookhaven Com E #6	SE/4	Pictured Cliffs (TA)
<u>T26N, R7W</u>			
Section 24:	89. Scott A #1	SE/4	Pictured Cliffs (P&A)
	90. Scott A #2	SE/4	Chacra/Pictured Cliffs Dual

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