

## NEW MEXICO OIL CONSERVATION DIVISION

COMMISSION HEARINGSANTA FE, NEW MEXICOHearing Date AUGUST 12, 1999 Time 9:00 A.M.

NAME	REPRESENTING	LOCATION
SCOTT HALL	MILLER LAW	SF
Paul Thompson	WALSH ENGINEERING	FARMINGTON
Richard Fromm	Whiting Petroleum	DENVER CO
Rick Foppiano	OXY	Houston, TX
Gene Dallegri	Whiting/Maralex	Santa Fe
Mickey O'Hare	MARALEX Resources	Tanner, CO
Neil Whitbread III	Consultant	<del>SF</del> Conifer, CO
Steve Sweeney	NM SO - BLM	SANTA FE
Rick Wymer	NM SO - BLM	SANTA FE
Carla Prando	Miller Law	SF
Freel Hanson	NM OGA	SF
James Buller	—	SF
Wayne Thompson	BLM	Farmington, NM
Jack McPeters	McCREARY FISCAL	DENVER

## NEW MEXICO OIL CONSERVATION DIVISION

COMMISSION HEARINGSANTA FE, NEW MEXICOHearing Date AUGUST 12, 1999 Time 9:00 A.M.

NAME	REPRESENTING	LOCATION
D. SEIGMAN	NM OGA	SFE
Ann W. Whitehead	Ann Whitehead	Compton, CO
Ernie Busch	NM OGD	A35C

## NEW MEXICO OIL CONSERVATION DIVISION

COMMISSION HEARINGSANTA FE, NEW MEXICOHearing Date AUGUST 19, 1999 Time 10:30 A.M.

NAME	REPRESENTING	LOCATION
Ernie Busch	NMDCD	Alsea
JACK MCARTNEY	PENDRAGON	DENVER
Neil H. Whitehead III	Pendragon	Conifer CO
SCOTT HALL	MILLER LAW FIRM	SF
Ann Whitehead	Ann Whitehead	Conifer, CO
JOE HEWITT	BLM	Farmington, NM
PAUL THOMPSON	WALSH ENGINEERING	FARMINGTON, N.M.
Dave Salley	Whitney-Maralex	Santa Fe
Mickey O'Hare	MARALEX RESOURCES INC	Ignacio
DAVE COX	PENDRAGON	DENVER
DENNIS REIMERS	Maralex	Ignacio Co. i
Wayne Townsend	BLM	Farmington

## STATE OF NEW MEXICO

## ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

## OIL CONSERVATION COMMISSION

IN THE MATTER OF THE HEARING CALLED BY )  
 THE OIL CONSERVATION DIVISION FOR THE )  
 PURPOSE OF CONSIDERING: ) CASE NO. 11,996  
 )  
 APPLICATION OF PENDRAGON ENERGY )  
 PARTNERS, INC., AND J.K. EDWARDS )  
 ASSOCIATES, INC., TO CONFIRM PRODUCTION )  
 FROM THE APPROPRIATE COMMON SOURCE OF )  
 SUPPLY, SAN JUAN COUNTY, NEW MEXICO )

OIL CONSERVATION DIV.  
 99 SEP 34 AM 2:42

CUMULATIVE INDEX OF WITNESSES AND EXHIBITSCOMMISSION HEARING

BEFORE: LORI WROTENBERY, CHAIRMAN  
 JAMI BAILEY, COMMISSIONER  
 ROBERT LEE, COMMISSIONER

August 12, 13, 19, 20, 21, 1999

Santa Fe, New Mexico

This matter came on for hearing before the Oil Conservation Commission, LORI WROTENBERY, Chairman, on August 12, 13, 19, 20 and 21, 1999, at the New Mexico Energy, Minerals and Natural Resources Department, Porter Hall, 2040 South Pacheco, Santa Fe, New Mexico, Steven T. Brenner, Certified Court Reporter No. 7 for the State of New Mexico.

\* \* \*

STEVEN T. BRENNER, CCR  
 (505) 989-9317

## CUMULATIVE INDEX OF WITNESSES AND EXHIBITS

August 12th, 1999 (Volume I)  
 Commission Hearing  
 CASE NO. 11,996

PRELIMINARY MATTERS 10

OPENING STATEMENTS  
     By Mr. Hall 26  
     By Mr. Gallegos 33

## APPLICANT'S WITNESSES:

ALAN B. NICOL (Geological engineer; President,  
 Pendragon Energy Partners, Incorporated)

Summary of Prefiled Testimony 64  
 Direct Examination by Mr. Hall 106  
 Cross-Examination by Mr. Gallegos 116  
 Examination by Commissioner Bailey 210  
 Examination by Commissioner Lee 216  
 Examination by Chairman Wrotenbery 216  
 Further Examination by Commissioner Bailey 218  
 Redirect Examination by Mr. Hall 219  
 Recross-Examination by Mr. Gallegos 224

PAUL C. THOMPSON (Engineer; President, Walsh  
 Engineering and Production Corporation)

Direct Examination by Mr. Hall 228  
 Cross-Examination by Mr. Gallegos 242  
 Examination by Commissioner Bailey 247  
 Examination by Commissioner Lee 249  
 Further Examination by Mr. Gallegos 250  
 Further Examination by Mr. Hall 251

(Continued...)

August 12th, 1999 (Volume I, Continued)  
Commission Hearing  
CASE NO. 11,996

APPLICANT'S WITNESSES (Continued):

ROLAND BLAUER (Engineer, rheologist;  
President, Resources Services International)

Summary of Prefiled Testimony	252
Cross-Examination by Mr. Gallegos	261
Examination by Commissioner Lee	283
Redirect Examination by Mr. Hall	292

\* \* \*

August 13th, 1999 (Volume II)  
 Commission Hearing  
 CASE NO. 11,996

APPLICANT'S WITNESSES (Continued):

MICHAEL W. CONWAY (Chemist/Well-Completion  
 Expert; Vice President and Technical Manager,  
 Stim-Lab, Incorporated)

Summary of Prefiled Testimony	305
Cross-Examination by Mr. Gallegos	322
Examination by Chairman Wrotenbery	402
Redirect Examination by Mr. Hall	404
Recross-Examination by Mr. Gallegos	408
Examination by Commissioner Lee	413

KENNETH L. ANCELL (Engineer)

Summary of Prefiled Testimony	418
Cross-Examination by Mr. Condon	429
Examination by Commissioner Bailey	464
Examination by Commissioner Lee	465
Examination by Chairman Wrotenbery	467
Redirect Examination by Mr. Hall	470
Recross-Examination by Mr. Condon	471

JACK A. MCCARTNEY (Engineer; Manager,  
 McCartney Engineering, L.L.C.)

Direct Examination by Mr. Hall	473
Cross-examination by Mr. Gallegos	498

MICHAEL W. CONWAY (Recalled)

Examination by Commissioner Lee	544
Examination by Chairman Wrotenbery	547
Examination by Mr. Gallegos	549

(Continued...)

August 13th, 1999 (Volume II, Continued)  
Commission Hearing  
CASE NO. 11,996

APPLICANT'S WITNESSES (Continued):

JACK A. McCARTNEY (Resumed)

Examination by Commissioner Bailey	555
Examination by Chairman Wrotenbery	559
Redirect Examination by Mr. Hall	560
Recross-Examination By Mr. Gallegos	570

NEIL H. WHITEHEAD (Geologist)

Summary of Prefiled Testimony	573
Cross-Examination by Mr. Gallegos	580
Examination by Commissioner Bailey	614
Examination by Chairman Wrotenbery	616
Redirect Examination by Mr. Hall	620
Recross-Examination by Mr. Gallegos	626
Further Examination by Mr. Hall	630

\* \* \*



August 19th, 1999 (Volume III)  
 Commission Hearing  
 CASE NO. 11,996

APPLICANT'S WITNESSES (Continued):

DAVE O. COX (Engineer)

Summary of Prefiled Testimony	646
Direct Examination by Mr. Hall	654
Cross-Examination by Mr. Gallegos	668
Examination by Commissioner Lee	775
Examination by Commissioner Bailey	781
Further Examination by Commissioner Lee	783
Redirect Examination by Mr. Hall	784

MICHAEL W. CONWAY (Chemist/Well-Completion  
 Expert; Vice President and Technical Manager,  
 Stim-Lab, Incorporated) (Recalled)

Direct Examination by Mr. Hall	797
Cross-Examination by Mr. Gallegos	800
Examination by Commissioner Lee	807
Redirect Examination by Mr. Hall	816

\* \* \*

MARALEX/WHITING WITNESSES:

ALEXIS MICHAEL "MICKEY" O'HARE (Engineer;  
 President, Maralex Resources)

Direct Examination by Mr. Condon	831
Summary of Prefiled Testimony	855
Direct Examination by Mr. Condon	865
Voir Dire Examination by Mr. Hall	878
Direct Examination by Mr. Condon (Resumed)	879
Voir Dire Examination by Mr. Hall	885
Direct Examination by Mr. Condon (Resumed)	886
Cross-Examination by Mr. Hall	925

\* \* \*

August 20th, 1999 (Volume IV)  
 Commission Hearing  
 CASE NO. 11,996

MARALEX/WHITING WITNESSES (Continued):

ALEXIS MICHAEL "MICKEY" O'HARE (Engineer;  
 President, Maralex Resources) (Continued)

Cross-Examination by Mr. Hall (Continued)	965
Examination by Commissioner Bailey	1023
Examination by Commissioner Lee	1024
Examination by Chairman Wrotenbery	1026
Redirect Examination by Mr. Condon	1033
Recross-Examination By Mr. Hall	1042
Further Examination by Mr. Condon	1047
Further Examination by Chairman Wrotenbery	1048

DENNIS R. REIMERS (Engineering manager,  
 Maralex Resources)

Direct Examination by Mr. Condon	1051
Cross-Examination by Mr. Hall	1063
Examination by Commissioner Bailey	1073

JAMES T. BROWN (Engineer: Operations  
 manager, Whiting Petroleum Corporation)

Summary of Prefiled Testimony	1075
Direct Examination by Mr. Gallegos	1087
Cross-Examination by Mr. Hall	1103
Examination by Commissioner Lee	1148
Redirect Examination by Mr. Gallegos	1152
Recross-Examination By Mr. Hall	1158

(Continued...)

August 20th, 1999 (Volume IV, Continued)  
Commission Hearing  
CASE NO. 11,996

MARALEX/WHITING WITNESSES (Continued):

WALTER B. AYERS, JR. (Geologist)

Direct Examination by Mr. Gallegos	1176
Cross-Examination by Mr. Hall	1207
Examination by Commissioner Bailey	1233
Examination by Commissioner Lee	1243
Examination by Chairman Wrotenbery	1247
Further Examination by Commissioner Lee	1250
Further Examination by Commissioner Bailey	1253

BRADLEY M. ROBINSON (Engineer)

Direct Examination by Mr. Gallegos	1255
------------------------------------	------

\* \* \*

August 21st, 1999 (Volume V)  
 Commission Hearing  
 CASE NO. 11,996

MARALEX/WHITING WITNESSES:

BRADLEY M. ROBINSON (Engineer) (Continued)

Direct Examination by Mr. Gallegos	1309
Cross-Examination by Mr. Hall	1330
Examination by Commissioner Lee	1417
Redirect Examination by Mr. Gallegos	1427

ALEXIS MICHAEL "MICKEY" O'HARE (Engineer;  
 President, Maralex Resources) (Recalled)

Direct Testimony	1433
Examination by Mr. Gallegos	1434
Examination by Mr. Hall	1434

\* \* \*

REBUTTAL WITNESSES:

PAUL C. THOMPSON (Engineer; President, Walsh  
 Engineering and Production Corporation)

Direct Examination by Mr. Hall	1443
Cross-Examination by Mr. Condon	1448
Redirect Examination by Mr. Hall	1477

WEST HAHN (Lease operator/production  
 foreman, Walsh Engineering)

Direct Examination by Mr. Hall	1478
--------------------------------	------

MICHAEL WAGNER (Lease operator,  
 Walsh Engineering)

Direct Examination by Mr. Hall	1485
Cross-Examination by Mr. Condon	1493

(Continued...)

August 21st, 1999 (Volume V, Continued)  
 Commission Hearing  
 CASE NO. 11,996

REBUTTAL WITNESSES (Continued):

ALAN B. NICOL (Geological engineer; President  
 Pendragon Energy Partners, Incorporated)

Direct Examination by Mr. Hall	1497
Cross-Examination by Mr. Gallegos	1529

DAVE O. COX (Engineer)

Direct Examination by Mr. Hall	1532
Cross-Examination by Mr. Gallegos	1547
Redirect Examination by Mr. Hall	1570

JACK A. McCARTNEY (Engineer; Manager,  
 McCartney Engineering, L.L.C.)

Direct Examination by Mr. Hall	1571
Cross-Examination by Mr. Gallegos	1581

\* \* \*

SURREBUTTAL WITNESSES:

WALTER B. AYERS, JR. (Geologist)

Direct Examination by Mr. Gallegos	1596
Cross-Examination by Mr. Hall	1603

BRADLEY M. ROBINSON (Engineer)

Direct Examination by Mr. Gallegos	1608
Examination by Commissioner Lee	1610

\* \* \*

## E X H I B I T S (Volume I)

Applicant's	Identified	Admitted
Exhibit N-1-i	98	-
Exhibit N-1	-	104
Exhibit N-2	126	104
Exhibit N-3	-	104
Exhibit N-4	-	104
Exhibit N-5	232	104
Exhibit N-6	-	104
Exhibit N-7	126	104
Exhibit N-8	152, 219	104
Exhibit N-9	154	104
Exhibit N-10	74, 77	104
Exhibit N-11	-	104
Exhibit N-12	-	104
Exhibit N-13	-	104
Exhibit N-14	-	104
Exhibit N-15	-	104
Exhibit N-16	-	104
Exhibit N-17	76	104
Exhibit N-18	-	104
Exhibit N-19	-	104
Exhibit N-20	-	104
Exhibit N-21	-	104
Exhibit N-22	-	104
Exhibit N-23	-	104
Exhibit N-24	-	104
Exhibit N-25	-	104
Exhibit N-26	-	104
Exhibit N-27	-	104
Exhibit N-28	-	104
Exhibit N-29	-	104
Exhibit N-30	-	104

(Continued...)

## E X H I B I T S (Volume I, Continued)

Applicant's	Identified	Admitted
Exhibit N-31	-	104
Exhibit N-32	-	104
Exhibit N-33	199	104
Exhibit N-34	-	104
Exhibit N-35	-	104
Exhibit N-36	206	104
Exhibit N-37	84, 171	104
Exhibit N-38	-	104
Exhibit N-39	184	104
Exhibit N-40	171	104
Exhibit N-41	-	104
Exhibit N-42	-	104
Exhibit N-43	-	104
Exhibit N-44	-	104
Exhibit N-45	-	104
Exhibit N-46	-	104
Exhibit N-47	-	104
Exhibit N-48	-	104
Exhibit N-49	-	104
Exhibit N-50	-	104
Exhibit N-51	-	104
Exhibit N-52	-	104
Exhibit N-53	-	104
Exhibit N-54	-	104
Exhibit N-55	-	104
Exhibit N-56	-	104
Exhibit N-57	-	104
Exhibit N-58	-	104
Exhibit N-59	-	104
Exhibit N-60	-	104

(Continued...)

## E X H I B I T S (Volume I, Continued)

Applicant's	Identified	Admitted
Exhibit N-61	89	104
Exhibit N-62	-	104
Exhibit N-63	-	104
Exhibit N-64	-	104
Exhibit N-65	-	104
Exhibit N-66	-	104
Exhibit N-67	-	104
Exhibit N-68	-	104
Exhibit N-69	221	224
Exhibit N-70	222	224
Exhibit N-71	223	224
Exhibit N-72	223	224

\* \* \*

Exhibit B-1	262	261
Exhibit B-2	270	261
Exhibit B-3	271	261
Exhibit B-4	271	261
Exhibit B-5	271	261
Exhibit B-6	271	261
Exhibit B-7	272	261
Exhibit B-8	-	261
Exhibit B-9	-	261
Exhibit B-10	-	261
Exhibit B-11	-	261
Exhibit B-12	-	261
Exhibit B-13	277	261
Exhibit B-14	-	261
Exhibit B-15	263	261
Exhibit B-16	280	261
Exhibit B-17	280	261
Exhibit B-18	-	261

(Continued...)



## E X H I B I T S (Volume I, Continued)

Applicant's	Identified	Admitted
Exhibit B-19	-	261
Exhibit B-20	-	261
Exhibit B-21	-	261
Exhibit B-22	-	261
Exhibit B-23	-	261
Exhibit B-24	-	261
Exhibit B-25	-	261
Exhibit B-26	-	261

\* \* \*

Whiting/Maralex	Identified	Admitted
Exhibit JTB-1	126	-
Exhibit M-25	152	-
Exhibit AMO-8	239	-
Exhibit WA-3	116	-

\* \* \*

## E X H I B I T S (Volume II)

Applicant's	Identified	Admitted
Exhibit C-1	-	322
Exhibit C-2	-	322
Exhibit C-3	-	322
Exhibit C-4	342	322
Exhibit C-5	-	322
Exhibit C-6	374	322
Exhibit C-7	327, 374, 402	322
Exhibit C-8	-	322
Exhibit C-9	-	322
Exhibit C-10	319	322
Exhibit C-11	319	322
Exhibit C-12	382	322
Exhibit C-13	382, 389, 397	322
Exhibit C-14	382, 393	322
Exhibit C-15	382	322
Exhibit C-16	382, 397, 614	322
Exhibit C-17	-	322
Exhibit C-18	550	555

\* \* \*

Exhibit A-1	-	421
Exhibit A-2	-	421
Exhibit A-3	-	421
Exhibit A-4	-	421
Exhibit A-5	-	421
Exhibit A-6	-	421
Exhibit A-7	421, 423, 445, 464	421
Exhibit A-8	-	421
Exhibit A-9	421, 426, 438, 442, 470	421

\* \* \*

(Continued...)

## E X H I B I T S (Volume II, Continued)

Applicant's	Identified	Admitted
Exhibit A-10	-	421
Exhibit A-11	-	421
Exhibit A-12	469	-
* * *		
Exhibit M-1	503	476
Exhibit M-2	-	476
Exhibit M-3	477, 555	476
Exhibit M-4	-	476
Exhibit M-5	-	476
Exhibit M-6	-	476
Exhibit M-7	-	476
Exhibit M-8	-	476
Exhibit M-9	475, 496	476
Exhibit M-10	478	476
Exhibit M-11	478	476
Exhibit M-12	478	476
Exhibit M-13	-	476
Exhibit M-14	-	476
Exhibit M-15	-	476
Exhibit M-16	-	476
Exhibit M-17	-	476
Exhibit M-18	-	476
Exhibit M-19	526	476
Exhibit M-20	526	476
Exhibit M-21	526	476
Exhibit M-22	526	476
Exhibit M-23	526, 563	476
Exhibit M-24	526	476
Exhibit M-25	481	476
Exhibit M-26	-	476
Exhibit M-27	564	476

(Continued...)

## E X H I B I T S (Volume II, Continued)

Applicant's	Identified	Admitted
Exhibit M-28	491	476
Exhibit M-29	-	476
Exhibit M-30	-	476
Exhibit M-31	-	476
Exhibit M-32	-	476
Exhibit M-33	-	476
Exhibit M-34	-	476
Exhibit M-35	495	476
Exhibit M-36	-	476
Exhibit M-37	475, 484, 496, 536	498
Exhibit M-38	475, 497	498
Exhibit M-39	475, 497, 538, 556	498
* * *		
Exhibit W-1	-	575
Exhibit W-2	-	575
Exhibit W-3	582	575
Exhibit W-4	587, 589, 610	575
Exhibit W-5	578	575
Exhibit W-6	591	575
Exhibit W-7	604	575
Exhibit W-8	594, 610, 616, 627	575
Exhibit W-9	610	575
Exhibit W-10	610	575
Exhibit W-11	-	575
Exhibit W-12	576, 591, 608, 610	575
Exhibit W-13	-	575
Exhibit W-14	609	575
Exhibit W-15	-	575

(Continued...)

STEVEN T. BRENNER, CCR  
(505) 989-9317

## E X H I B I T S (Volume II, Continued)

Applicant's	Identified	Admitted
Exhibit W-16	-	575
Exhibit W-17	-	575
Exhibit W-18	-	575
Exhibit W-19	-	575
Exhibit W-20	-	575
Exhibit W-21	-	575

\* \* \*

Exhibit N-4	369, 405, 580, 610, 617	104
Exhibit N-33	539, 541	104
Exhibit N-50	577, 622	104
Exhibit N-53	624	104

\* \* \*

Whiting/Maralex	Identified	Admitted
Exhibit W-7 (Exhibit T-2, 1998)	565, 567	-
Exhibit W-8	569	-
Exhibit W-30	513	-
Exhibit JTB-16	332	-
Exhibit WA-3	330, 581	-

\* \* \*

## E X H I B I T S (Volume III)

Applicant's	Identified	Admitted
Exhibit A-12	644	644
Exhibit M-1	905	476
Exhibit M-25	708, 721, 786	476
Exhibit N-7-A	868	104
Exhibit N-8	691, 786	104
Exhibit N-10	915	104
Exhibit N-15	897	104
Exhibit N-17-B	784	104
Exhibit N-17-C	785	104
* * *		
Exhibit C-13	803	322
Exhibit C-19	645, 797	800
Exhibit C-20	645, 797, 799	800
Exhibit C-21	645, 797, 799	800
Exhibit C-22	645, 797, 799	800
Exhibit C-23	645, 797, 799	800
Exhibit C-24	645, 797, 799	800
Exhibit C-25	645, 797, 799	800
* * *		
Exhibit Cox-1	-	648
Exhibit Cox-2	733	648
Exhibit Cox-3	655	648
Exhibit Cox-4	655	648
Exhibit Cox-5	656	648
Exhibit Cox-6	656	648
Exhibit Cox-7	657	648
Exhibit Cox-8	657, 665	648
Exhibit Cox-9	657, 665	648

(Continued...)

## E X H I B I T S (Volume III, Continued)

Applicant's	Identified	Admitted
Exhibit Cox-10	657, 672, 675, 740, 784	648
Exhibit Cox-11	657, 673, 740, 784	648
Exhibit Cox-12	-	648
Exhibit Cox-13	-	648
Exhibit Cox-14	-	648
Exhibit Cox-15	-	648
Exhibit Cox-16	744, 746	648
Exhibit Cox-17	-	648
Exhibit Cox-18	749, 755	648
Exhibit Cox-19	750	648
Exhibit Cox-20	-	648
Exhibit Cox-21	752	648
Exhibit Cox-22	754	648
Exhibit Cox-23	759	648
Exhibit Cox-24	-	648
Exhibit Cox-25	794	648
Exhibit Cox-26	794	648
Exhibit Cox-27	794	648
Exhibit Cox-28	794	648
Exhibit Cox-29	794	648
Exhibit Cox-30	661	648
Exhibit Cox-31	661	648
Exhibit Cox-32	661	648
Exhibit Cox-33	661	648
Exhibit Cox-34	661	648
Exhibit Cox-35	661	648
Exhibit Cox-36	-	648
Exhibit Cox-37	-	648
Exhibit Cox-38	-	648
Exhibit Cox-39	-	648

(Continued...)

## E X H I B I T S (Volume III, Continued)

Applicant's	Identified	Admitted
Exhibit Cox-40	-	648
Exhibit Cox-41	-	648
Exhibit Cox-42	-	648
Exhibit Cox-43	-	648
Exhibit Cox-44	-	648
Exhibit Cox-45	692, 699	648
Exhibit Cox-46	-	648
Exhibit Cox-47	-	648
Exhibit Cox-48	888	648
Exhibit Cox-49	665	648
Exhibit Cox-50	-	648
Exhibit Cox-51	-	648
Exhibit Cox-52	-	648
Exhibit Cox-53	-	648
Exhibit Cox-54	-	648
Exhibit Cox-55	-	648
Exhibit Cox-56	-	648
Exhibit Cox-57	-	648
Exhibit Cox-58	-	648
Exhibit Cox-59	-	648
Exhibit Cox-60	-	648
Exhibit Cox-60-A	717	796
Exhibit Cox-60-B	721, 787	796
Exhibit Cox-61	789	796
Exhibit Cox-62	792	796
Exhibit Cox-63	792	796
Exhibit Cox-64	792	796
Exhibit Cox-65	792	796

\* \* \*

(Continued...)



# E X H I B I T S (Volume III, Continued)

Whiting/Maralex	Identified	Admitted
Exhibit JTB-1	679, 761	-
Exhibit JTB-2	680, 762	-
Exhibit JTB-5-A	740, 759	-
Exhibit WA-3	685	-
Exhibit WA-4	858	-
* * *		
Exhibit W-1	823	-
Exhibit W-2	-	-
Exhibit W-3	823	-
Exhibit W-4	824	-
Exhibit W-5	824	-
Exhibit W-6	824	-
Exhibit W-7	824	-
Exhibit W-7-A	901	905
Exhibit W-8	824	-
Exhibit W-9	824, 850, 883	884
Exhibit W-9-A	882	884
Exhibit W-10	824	-
Exhibit W-28-A	882	885
Exhibit W-35	865, 932, 949	867
* * *		
Exhibit AMO-2	837, 862, 908	854
Exhibit AMO-4	837	854
Exhibit AMO-6	837	854
Exhibit AMO-8	837, 910	854
Exhibit AMO-9	837	854
Exhibit AMO-10	837	854

(Continued...)

## E X H I B I T S (Volume III, Continued)

Whiting/Maralex	Identified	Admitted
Exhibit AMO-11	893	899
Exhibit AMO-12	867	870
Exhibit AMO-13	870	875
Exhibit AMO-14	872	875
Exhibit AMO-15	897	899
Exhibit AMO-16	907	911
Exhibit AMO-17	875	879
Exhibit AMO-18	911	915
Exhibit AMO-19	911	915
Exhibit N-7-1	873	875
Exhibit N-7-A-3	877	879
Exhibit AMO-20	915	924
Exhibit AMO-21	915	924
Exhibit AMO-22	915	924
Exhibit AMO-23	901	905

\* \* \*

## E X H I B I T S (Volume IV)

Whiting/Maralex	Identified	Admitted
Exhibit AMO-2	968	854
Exhibit AMO-9	1014	854
Exhibit AMO-13	1010	875
Exhibit AMO-16	990, 1008	911
Exhibit AMO-20	967, 982, 985	924
Exhibit AMO-21	967, 982	924
Exhibit AMO-22	967, 982	924
Exhibit AMO-24	1033	1048
* * *		
Exhibit JTB-1	1079	1102
Exhibit JTB-2	1080	1102
Exhibit JTB-3	1079, 1103	1102
Exhibit JTB-4	1087, 1106, 1148	1102
Exhibit JTB-5-A	1081	1102
Exhibit JTB-5-B	1124	1102
Exhibit JTB-6	1085, 1140	1102
Exhibit JTB-7	1080, 1151, 1153	1102
Exhibit JTB-8	1080	1102
Exhibit JTB-9	1080, 1142, 1153	1102
Exhibit JTB-10	1080, 1153	1102
Exhibit JTB-11	1080, 1145	1102
Exhibit JTB-12	1080	1102
Exhibit JTB-13	1080	1102
Exhibit JTB-14	1080	1102

\* \* \*

(Continued...)

## E X H I B I T S (Volume IV, Continued)

Whiting/Maralex	Identified	Admitted
Exhibit JTB-15	1080, 1152,	
	1172	1102
Exhibit JTB-16	-	1102
* * *		
Exhibit WA-1	-	1207
Exhibit WA-2	1185	1207
Exhibit WA-3	1184, 1190,	
	1202, 1211,	
	1224, 1277	1207
Exhibit WA-4	1184	1207
Exhibit WA-5	-	1207
Exhibit WA-6	-	1207
Exhibit WA-7	-	1207
Exhibit WA-8	1218, 1250	1207
Exhibit WA-9	1215, 1218	1207
Exhibit WA-10	1215, 1218	1207
Exhibit WA-11	-	1207
Exhibit WA-12	1215	1207
Exhibit WA-13	1188	1207
Exhibit WA-14	1189, 1240,	
	1253	1207
Exhibit WA-15	1193, 1197	1207
Exhibit WA-16	1193, 1196	1207
Exhibit WA-17	1193, 1197,	
	1222	1207
Exhibit WA-18	1206	1207
Exhibit N-50-1	1221	1233

\* \* \*

(Continued...)

## E X H I B I T S (Volume IV, Continued)

Whiting/Maralex	Identified	Admitted
Exhibit BR-1	1260	-
Exhibit BR-2	1261	-
Exhibit BR-3	1262	-
Exhibit BR-4	-	-
Exhibit BR-5	-	-
Exhibit BR-6	-	-
Exhibit BR-7	-	-
Exhibit BR-8	-	-
Exhibit BR-9	-	-
Exhibit BR-10	-	-
Exhibit BR-11	-	-
Exhibit BR-12	1264, 1292	-
Exhibit BR-13	-	-
Exhibit BR-14	1293	-
Exhibit BR-15	-	-
Exhibit BR-16	1268	-
Exhibit BR-17	-	-
Exhibit BR-18	1270	-
Exhibit BR-19	-	-
Exhibit BR-19 (d)	1268	-
Exhibit BR-20	-	-
Exhibit BR-21	-	-
Exhibit BR-22	-	-
Exhibit BR-23	-	-
Exhibit BR-24	1270	-
Exhibit BR-25	1272	-
Exhibit BR-26	1279	-
Exhibit BR-27	-	-
Exhibit BR-28	-	-
Exhibit BR-29	1275	-

\* \* \*

(Continued...)

## E X H I B I T S (Volume IV, Continued)

Applicant's	Identified	Admitted
Exhibit A-9	1095	421
Exhibit A-10	1095	421
Exhibit C-51-1	1089	1102
Exhibit Cox-5	1126	648
Exhibit Cox-10	1098	648
Exhibit Cox-11	1098	648
Exhibit M-1	1001, 1006	476
Exhibit N-2	1030, 1207	104
Exhibit N-19	1128	104
Exhibit N-21	1128	104
Exhibit N-28	989	104
Exhibit N-37	1088	104
Exhibit N-45	1195	104
Exhibit N-61	1029	104
Exhibit O-3	1017	1023
Exhibit O-4	1032	1047
Exhibit N-7-A-3	1051, 1061	879
Exhibit N-37-E-1	1089, 1160	1102
Exhibit N-37-E-2	1089	1102
Exhibit N-37-E-3	1089	1102
Exhibit W-30	1099	1102
Exhibit Brown-1	1115, 1154	1175
Exhibit Brown-2	1116, 1130	1175
Exhibit Brown-5	1119	1175
Exhibit Brown-6	1120	1175
Exhibit Brown-7	1121	1175
Exhibit Brown-15	1159	1175

(Continued...)

## E X H I B I T S (Volume IV, Continued)

Applicant's	Identified	Admitted
Exhibit Brown-16	1162	1175
Exhibit Brown-17	1142, 1169	1175
Exhibit Brown-18	1171	1175
Exhibit Brown-20	1133	1175
Exhibit Ayers-2	1212	1233
Exhibit Ayers-3	1224, 1247	1233
Exhibit C-7	1285	-
Exhibit C-13	1285, 1292	-
Exhibit C-16	1285	-
Exhibit C-23	1285	-

\* \* \*

## E X H I B I T S (Volume V)

Whiting/Maralex	Identified	Admitted
Exhibit BR-1	-	1329
Exhibit BR-2	-	1329
Exhibit BR-3	-	1329
Exhibit BR-4	-	1329
Exhibit BR-5	-	1329
Exhibit BR-6	-	1329
Exhibit BR-7	-	1329
Exhibit BR-8	-	1329
Exhibit BR-9	-	1329
Exhibit BR-10	-	1329
Exhibit BR-11	1340	1329
Exhibit BR-12	1344	1329
Exhibit BR-13	-	1329
Exhibit BR-14	1352	1329
Exhibit BR-15	1373	1329
Exhibit BR-16	-	1329
Exhibit BR-17	-	1329
Exhibit BR-18	-	1329
Exhibit BR-19 (a)	1360	1329
Exhibit BR-19 (b)	1360	1329
Exhibit BR-19 (c)	1360	1329
Exhibit BR-19 (d)	1358	1329
Exhibit BR-20	1358, 1374	1329
Exhibit BR-21	1374	1329
Exhibit BR-22	1374	1329
Exhibit BR-23	1374	1329
Exhibit BR-24	1365	1329
Exhibit BR-25	-	1329
Exhibit BR-26	-	1329
Exhibit BR-26 (a)	1323, 1413, 1536	1329

\* \* \*

(Continued...)

STEVEN T. BRENNER, CCR  
(505) 989-9317



## E X H I B I T S (Volume V, Continued)

Whiting/Maralex	Identified	Admitted
Exhibit BR-27	-	1329
Exhibit BR-28	-	1329
Exhibit BR-29	-	1329
Exhibit BR-30	1316	1329
Exhibit BR-31	1330	1330
* * *		
Exhibit W-1	1431	1432
Exhibit W-10	1475, 1479, 1522	1476
Exhibit W-30	1586	1102
Exhibit W-39	1429	1432
Exhibit W-40	1471, 1479	1478
Exhibit W-41	1459, 1479	1478
Exhibit AMO-6	1446	854
Exhibit AMO-8	1493	854
Exhibit AMO-12	1502	870
Exhibit AMO-13	1498	875
Exhibit N-7-A-3	1488	879
Exhibit WA-3	1598	1207
Exhibit WA-4	1513	1207
Exhibit WA-9	1518	1207
Exhibit WA-10	1601	1207
Exhibit WA-15	1598, 1605	1207
Exhibit JTB-4	1528	1102
Exhibit W-5	1581	1595
Exhibit W-6	1581	1595
Exhibit W-7	1581	1595

\* \* \*

(Continued...)

STEVEN T. BRENNER, CCR  
(505) 989-9317

## E X H I B I T S (Volume V, Continued)

Whiting/Maralex	Identified	Admitted
Exhibit W-8	1581	1595
Exhibit N-50-1	1602	1233

\* \* \*

Applicant's	Identified	Admitted
Exhibit M-25	1320, 1579	476
Exhibit M-26	1316	476
Exhibit M-35	1581	476
Exhibit M-37	1577	498
Exhibit N-3	1524	104
Exhibit N-4	1517	104
Exhibit N-7-A	1502, 1508	104
Exhibit N-31	1354	104
Exhibit N-37-D	1509	104
Exhibit N-45	1596	104
Exhibit N-50	1600	104
Exhibit N-53	1522	104
Exhibit N-58	1517	104
Exhibit N-63	1510	104
Exhibit Robinson-1	1332	1416
Exhibit Robinson-2	1374, 1601	1416
Exhibit Robinson-B	1383, 1533, 1559	1416
Exhibit Robinson-C	1375, 1383, 1395, 1424	1416

(Continued...)

## E X H I B I T S (Volume V, Continued)

Applicant's	Identified	Admitted
Exhibit T-A	1430	-
Exhibit Brown-20	1432	-
Exhibit A-12	1443, 1449, 1459, 1472, 1494	644
Exhibit N-A	1501	1502, 1529
Exhibit W-10	1522	575
Exhibit Ayers-4	1526	1529
Exhibit Cox-22	1549	800
Exhibit Cox-64	1557	796
Exhibit M-A	1574	1581

\* \* \*