

OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

Petty-Ray Geophysical, Inc.

Subsidiary of Geosource International Incorporated

CLIENT C.O. CORP	AREA RIO GRANDE RIFT LOS PINOS MOUNTAINS	STATE NEW MEXICO	COUNTY SOCORRO	DATE 10/16/75
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CREW NO. 6834	TERRAIN	WEATHER FAIR	LINE NO. TEST
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REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	F I L T E R			GEO. ARRAY	SWP	RE MARKS
							LOCUT	60 ~	AMP			
1	1	SIMILARITY										8 ms sample - 40 sec REC.
2		25 - 48	01	2/8	IFP	1	OUT	OUT	42			
3	2	92	01							POD	8:32, 20 SEC	
4	3	95	01							POD	" "	
5	4	95	01	4/16						POD	" "	PRODUCTION SOURCE ARRAY
6	5	95	01	2/8						VADIS	" "	
7	6	95	01	4/16						" "	" "	PRODUCTION SOURCE ARRAY
8	7	95	01	4/16						" "	10-32, 20 SEC	✓ ✓ ✓
9	8	95	01	4/16						" "	12-32, 20 SEC	✓ ✓ ✓
10	9	95	01	4/16						" "	14-32, 20 SEC	✓ ✓ ✓
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. MDS 8 # 110
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SWEEP FREQUENCY SEE SWP	SWEEP PATTERN SEE REMARKS	SWEEPS PER PATTERN SEE # VIB	SWEEP PATTERNS PER SETUP	PATCH PATTERN SEE GEO ARRAY
GEOPHONES PER PATCH 16 POD 32 VADIS	NO. OF RECORDING PATCHES 24	TYPE VIBRATOR 2 Y 1100 2 Y 900	TYPE GEOPHONE EV 22 B	FREQUENCY 7.5
REMARKS		STATION INTERVAL 330'	LINE DIR. 25 - 48 1 TO 24 E → W	

OBSERVER Jim Richards	PARTY MGR.
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OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

Petty-Ray Geophysical, Inc.
Subsidiary of Geosource International Incorporated

CLIENT COCORP		AREA RIO GRANDE RIFT - LOS PINOS MOUNTAINS			STATE NEW MEXICO		COUNTY SOCORRO		DATE 10-17-75			
CREW NO. 6834		TERRAIN			WEATHER			LINE NO. TEST				
REC. NO.	SWEEP POINT	PATCH LOCATIONS		CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	F I L T E R			REMARKS	
								LOCUT	60 ~	AMP		
1	932 Similarity	4 Vibs										
2												
3		C.A. → 1-24 25-48										
4	10 54	1-24	25-48	1	4/16	1PP	2	OUT	OUT			
5												
6	11 54	1-24	25-48	1	4/32							
7												
8	12 54	1-24	25-48	1	4/16							
9												
10	13 54	1-24	25-48	1	4/16							
11												
12												
13	14											
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. MDS 8 # 110
SWEEP FREQUENCY SEC SWP	SWEEP PATTERN IN LINE	SWEEPS PER PATTERN SEE # VIB	SWEEP PATTERNS PER SETUP	PATCH PATTERN VADIS ARRAY	
GEOPHONES PER PATCH 32	NO. OF RECORDING PATCHES 48	TYPE VIBRATOR 241100 24900	TYPE GEOPHONE EV22B	FREQUENCY 7.5	STATION INTERVAL 330'
REMARKS			OBSERVER Jim Richards	PARTY MGR.	

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**RAY GEOPHYSICAL DIVISION
MANDREL INDUSTRIES, INC.**

CLIENT COCORP	AREA Rio Grande Rift - Los Pinos Mount	STATE New Mexico	COUNTY SOCORRO	DATE 10-18-75
CREW NO. 6834	TERRAIN	WEATHER		LINE NO.

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	F I L T E R			REMARKS
							LOCUT	60 ~	AMP	
1	932 Similarity									
2	CH →	1-24 25-48							Alias	
3	1 150	1-24 25-48	1	4/16	IFP	3	OUT	OUT	3*	EXPANDED SPREAD
4	2 150	1-24 25-48	1				9			REPEAT WITH LOCUT AT 9
5	3 126	25-48 49-72	25							EXPANDED SPREAD
6										
7	4 18		1-12	85						PIPE LINE NOISE AT STA 5 CH 78-48
8	5 19		1-13	86						36-48
9	6 20		1-14	87						35-48
10	7 21		1-15	88						34-48
11	8 22		1-16	89						33-48
12	9 23		1-17	90						32-48
13	10 24		1-18	91						31-48
14	11 25		1-19	92						30-48
15	12 26		1-20	93						29-48
16	13 27		1-21	94						28-48
17	14 28		1-22	95						27-48
18	15 29		1-23	96						26-48
19	16 1	7-30	31-54	7						1-48
20	17 2	8-31	32-55	8						
21	18 3	9-32	33-56	9						STOP VIB AT 6:00
22										
23										
24										
25										

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. MDS 8 #110
SWEEP FREQUENCY 10-32 20SEC	SWEEP PATTERN INLINE	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP	PATCH PATTERN VADIS ARRAY	
GEOPHONES PER PATCH 32	NO. OF RECORDING PATCHES 48	TYPE VIBRATOR 2 41100 2 4900	TYPE GEOPHONE EV22B	FREQUENCY 7.5	STATION INTERVAL 330
REMARKS			OBSERVER Jem Richards	PARTY MGR.	

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**RAY GEOPHYSICAL DIVISION
MANDREL INDUSTRIES, INC.**

CLIENT CO CORP	AREA RIO GRANDE RIFT - LOS PINOS MOUNTAINS	STATE NEW MEXICO	COUNTY SOCORRO	DATE 10-19-75
CREW NO. 10834	TERRAIN	WEATHER		LINE NO. 1

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	F I L T E R			REMARKS	
							LOCUT	60 ~	200P		
1	932	Similarity								TIME	
2		CH	1-24	25-48							
3	19	4	10-33	34-57	10	4/16 IFP	3	9	OUT	10:30	START WORK 10:30
4	20	4	10-33	34-57	10					10:42	REPEAT SF TRACE #1 DEAD VP 4 ONLY - STACK 2nd HALF
5	21	5	11-34	35-58	11					11:10	CORR. REC. 20
6	22	6	12-35	36-59	12					11:30	Delayed by TRAIN NOISE
7	23	7	13-36	37-60	13					11:47	Delayed by Another TRAIN.
8	24	8	14-37	38-61	14					12:00	
9	25	9	15-38	39-62	15					12:12	
10	26	10	16-39	40-63	16					12:23	
11	27	11	17-40	41-64	17					12:26	
12	28	12	18-41	42-65	18					12:55	TRAIN DELAY
13	29	13	19-42	43-66	19					13:10	CORR. REC. 29 - VP 13
14	30	14	20-43	44-67	20					13:28	
15											
16			END TAPE 3								
17			MULTIPLE EOPS								
18	999		79 SEC. ALL ONES								
19											
20	~~~~~										
21											
22			EOT								
23											
24											
25											

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. MDS 8 #110
SWEEP FREQUENCY 10-32	SWEEP PATTERN 20 SEC	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP	PATCH PATTERN VADIS ARRAY	
GEOPHONES PER PATCH 32	NO. OF RECORDING PATCHES 48	TYPE VIBRATOR 241100	TYPE GEOPHONE EV22B	FREQUENCY 7.5	STATION INTERVAL 330'
REMARKS			OBSERVER Jim Richards	PARTY MGR.	

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

RAY GEOPHYSICAL DIVISION
MANDREL INDUSTRIES, INC.

CLIENT COCORP	AREA RIO GRANDE RIST-LOS PINOS MOUNT.	STATE New Mexico	COUNTY SOCORRO	DATE 10-19-75
CREW NO. 6834	TERRAIN	WEATHER		LINE NO. 1

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	F I L T E R			REMARKS		
							LOCUT	60~	7~			
1	31	15	21-44	45-68	21	4/6	IFP	4	9	OUT	13:51	TRAIN DELAY - START TAPE #1.
2	32	16	22-45	46-69	22						14:10	
3	33	17	23-46	47-70	23						14:21	
4	34	18	24-47	48-71	24						14:35	
5	35	19	25-48	49-72	25						14:47	CORR.
6	36	20	26-49	50-73	26						15:03	
7	37	21	27-50	51-74	27						15:15	CATTLE 69 & 70 MOVING EAST
8	38	22	28-51	52-75	28						15:30	TRAIN
9	39	23	29-52	53-76	29						15:45	
10	40	24	30-53	54-77	30						16:00	PIPELINE NEAR STA 77
11	41	25	31-54	55-78	31						16:13	
12	42	26	32-55	56-79	32						16:28	TRAIN CATTLE NOISE NEAR STA 79
13	43	27	33-56	57-80	33						16:43	
14	44	28	34-57	58-81	34						16:55	
15	45	29	35-58	59-82	35						17:10	
16	46	30	36-59	60-83	36						17:21	TRACE 48 DEAD VP 30 ONLY
17												
18												
19												
20												
21												
22												
23												
24												
25												

EOD

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. MD58 #110
SWEEP FREQUENCY 10-32	SWEEP PATTERN 20SE @ INLINE	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP	PATCH PATTERN VADIS ARRAY	
GEOPHONES PER PATCH 32	NO. OF RECORDING PATCHES 48	TYPE VIBRATOR 24900	TYPE GEOPHONE EV22B	FREQUENCY 7.5	STATION INTERVAL 330'
REMARKS	OBSERVER Jim Richards		PARTY MGR.		

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**RAY GEOPHYSICAL DIVISION
MANDREL INDUSTRIES, INC.**

CLIENT CO CORP	AREA RIOGRANDE RIFT - LOS PIVOS MOUNTAINS	STATE NEW MEXICO	COUNTY SOCORRO	DATE 10-20-75
CREW NO. 6834	TERRAIN	WEATHER		LINE NO. 1

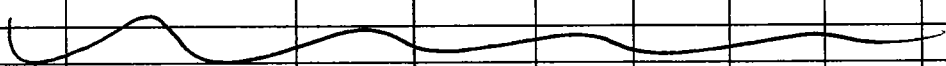
REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	F I L T E R			REMARKS
							LOCUT	60~	AMP	
1	932 Similarity	4 VIBS					20	SEC	REC	
2	933 E1N									
3	934 E1N	Flick FILTER IN			1uV		12	SEC	REC	
4	935 E1N	" " "	OUT		NOISE		"			
5	935 E1N	" " "	IN		"		"			
6	936 DRD						"			
7	937 "						"			
8	938 "						"			
9	939 "						"			
10	999 FILTERED SWEEP PILOT						21	SEC		LOCUT 9 RECTR. AT 80-81
11									Time	
12	47 31	37-60 61-84	5	4/16	IRP	4	9	OUT	10:45	
13	48 32	38-61 62-85	6						11:02	
14	49 33	39-62 63-86	7						11:17	
15	50 34	40-63 64-87	8						11:30	TRAIN DELAY
16	51 35	41-64 65-88	9						11:53	
17	52 36	42-65 66-89	10						12:12	UNEXPLAINED NOISE BURSTS
18	53 37	43-66 67-90	11						12:51	TRAIN DELAY
19	54 38	44-67 68-91	12						13:05	CATTLE ON LINE
20	55 39	45-68 69-92	13						13:35	
21	56 40	46-69 70-93	14						13:49	EVIDENT BLASTING IN AREA
22	57 41	47-70 71-94	15						14:05	
23	58 42	48-71 72-95	16						14:20	CORE.
24	59 43	49-72 73-96	17						14:33	TRAIN
25	66 44	50-73 74-97	18						14:53	

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. MDS 8 #110
SWEEP FREQUENCY 10-32 20 SEC	SWEEP PATTERN IN/LINE	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP	PATCH PATTERN VADIS ARRAY	
GEOPHONES PER PATCH 32	NO. OF RECORDING PATCHES 48	TYPE VIBRATOR 241100 24900	TYPE GEOPHONE EV22B	FREQUENCY 7.5	STATION INTERVAL 330'
REMARKS			OBSERVER J. Richards	PARTY MGR.	

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**RAY GEOPHYSICAL DIVISION
MANDREL INDUSTRIES, INC.**

CLIENT COCORP	AREA Rio Grande Rift - Los Pinos Mountains	STATE New Mexico	COUNTY Socorro	DATE 10-20-75
CREW NO. 6834	TERRAIN	WEATHER		LINE NO. 1

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	F I L T E R			RE MARKS
							LOCUT	60 ~	TIME	
1	45	51-74 75-98	19	4/16	JFP	4	9	OUT	15.25	RAN OFF EOT, NO EOF.
2	46	52-75 76-99	20							
3	47	53-76 77-100	21							
4										
5										
6										
7										
8	EOT									
9										
10										
11										
12										
13										
14										
15										
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21										
22										
23										
24										
25										

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. MDS 8 #110
SWEEP FREQUENCY 10-32 20sec	SWEEP PATTERN inline	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP	PATCH PATTERN Vad's ARRAY	
GEOPHONES PER PATCH 32	NO. OF RECORDING PATCHES 48	TYPE VIBRATOR 24905 241100	TYPE GEOPHONE EV22B	FREQUENCY 7.5	STATION INTERVAL 330'
REMARKS			OBSERVER Jim Richards	PARTY MGR.	

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**RAY GEOPHYSICAL DIVISION
MANDREL INDUSTRIES, INC.**

CLIENT CO CORP	AREA Rio Grande Ri+T- Los Pinos Mount.	STATE NEW Mexico	COUNTY SOCORRO	DATE 10-20-75
CREW NO. 6834	TERRAIN	WEATHER		LINE NO. 1

REC.NO.	SWEEP POINT	PATCH LOCATIONS		CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	F I L T E R			RE MARKS
								LOCUT	60 ~	TAMP	
1	62	216	52-75 76-99	20	4/16	IFP	5	9	OUT	16:10	REC # 62 NR - DISREGARD ON REEL # 1
2	64	47	53-76 77-100	21							
3	65	48	54-77 78-101	22						16:33	TRAIN DELAY Bin Problem time :
4											
5											
6	~~~~~										
7											
8											
9	E O D										
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. MDS 8 #110
SWEEP FREQUENCY 10-32 20SEC	SWEEP PATTERN IN/IN E	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP	PATCH PATTERN VADIS ARRAY	
GEOPHONES PER PATCH 32	NO. OF RECORDING PATCHES 48	TYPE VIBRATOR 24900 241100	TYPE GEOPHONE EV 22B	FREQUENCY 7.5	STATION INTERVAL 330'
REMARKS			OBSERVER Jim Richards	PARTY MGR.	LINE DIR. 1 TO 24 1-48 W→E

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**RAY GEOPHYSICAL DIVISION
MANDREL INDUSTRIES, INC.**

CLIENT COCORP	AREA Rio Grande Rift - Los Pinos Mount	STATE New Mexico	COUNTY Socorro	DATE 10-21-75
CREW NO. 6834	TERRAIN	WEATHER		LINE NO. 1

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	F I L T E R			RE MARKS	
							LOCUT	60 ~	AMP		
1	932	Similarity								TIME Bombing Range NEAR LINE	
2	932	Similarity									
3		CH									
4	65	48	54-77	78-101	12	5/16	IFP	5	9	OUT 9:40	Light wind INCREASING
5	66	49	55-78	79-102	13					10:10	TRAIN DELAY REINITIALIZED
6	67	50	56-79	80-103	14					11:45	Vib problems
7	68	51	57-80	81-104	15					12:00	
8	69	52	58-81	82-105	16					12:14	
9	70	53	59-82	83-106	17					12:27	
10	71	54	60-83	84-107	18					12:45	TRAIN DELAY
11	72	55	61-84	85-108	19					13:01	
12	73	56	62-85	86-109	20					13:15	
13	74	57	63-86	87-110	21					13:30	
14	75	58	64-87	88-111	22	4/16				13:45	MODERATE WIND
15	76	59	65-88	89-112	23					14:00	STRONG WIND - STANDING BY 55 min.
16	77	60	66-89	90-113	24						SHUT DOWN BY WIND & STATIC
17											
18											
19											
20											
21											
22											
23											
24											
25											

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. MDS 8 #110
SWEEP FREQUENCY 10-32 20 sec	SWEEP PATTERN IN/line	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP	PATCH PATTERN VADIS ARRAY	
GEOPHONES PER PATCH 32	NO. OF RECORDING PATCHES 48	TYPE VIBRATOR 341108 24900	TYPE GEOPHONE EV22B	FREQUENCY 7.5	STATION INTERVAL 330'
REMARKS		OBSERVER Jim Richards		PARTY MGR.	

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**RAY GEOPHYSICAL DIVISION
MANDREL INDUSTRIES, INC.**

CLIENT CO CORP	AREA Rio Grande Rift - Los Pinos Mtns	STATE New Mexico	COUNTY SOCORRO	DATE 10-22-75
CREW NO. 6834	TERRAIN	WEATHER		LINE NO. 1

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	FILTER			REMARKS	
							LOCUT	60 ~	-AMP		
1	932	Similarity 5 Vib								TIME	
2		Ch → 1-24 25-48									
3	77	60	66-89	90-113	24	4/16	IFP	5	9	OUT	10:10
4	78	61	67-90	91-114	25						10:25
5	79	62	68-91	92-115	26	5/16					10:41
6	80	63	69-92	93-116	27						11:00
7	81	64	70-93	94-117	28						11:14
8	82	65	71-94	95-118	29						11:25
9	83	66	72-95	96-119	30						11:51
10	84	67	73-96	97-120	31						13:00
11	85	68	74-97	98-121	32						13:30
12	86	69	75-98	99-122	33						13:45
13	87	70	76-99	100-123	34						14:00
14	88	71	77-100	101-124	35						14:17
15	89	72	78-101	102-125	36						14:29
16	90	73	79-102	103-126	37						14:44
17	91	74	80-103	104-127	38						15:00
18	999	ONES	79 SEC								
19	~~~~~										
20	~~~~~										
21	~~~~~										
22	EOT										
23	~~~~~										
24	~~~~~										
25	~~~~~										

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. MDS 8 #110
SWEEP FREQUENCY 10-32 ROSEC	SWEEP PATTERN IN/line	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP	PATCH PATTERN VADIS ARRAY	
GEOPHONES PER PATCH 32	NO. OF RECORDING PATCHES 48	TYPE VIBRATOR 341100 24900	TYPE GEOPHONE EV22R	FREQUENCY 7.5	STATION INTERVAL 330'
REMARKS	OBSERVER Jim Richards			PARTY MGR.	
					LINE DIR. 1 TO 24 W → 48

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**RAY GEOPHYSICAL DIVISION
MANDREL INDUSTRIES, INC.**

CLIENT COCORP	AREA Rio GRANDE RIFT- LOS PINOS MOUNT	STATE New Mexico	COUNTY SOCORRO	DATE 10-22-75
CREW NO. 10834	TERRAIN	WEATHER		LINE NO. 1

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	FILTER TIME			REMARKS
							LOCUT	60 ~	AMP	
1	75	81-104 105-128	39	416	IFP	6	9	OUT	15:20	Light Wind
2	76	82-105 106-129	40						15:33	
3	77	83-106 107-130	41						15:46	
4	78	84-107 108-131	42						16:00	CATTLE ON LINE
5	79	85-108 109-132	43						16:15	MODERATE WIND
6	80	86-109 110-133	44						16:28	
7	81	87-110 111-134	45						16:43	High Winds
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										

EOD

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. MDSR #110
SWEEP FREQUENCY 10-32 20 SEC	SWEEP PATTERN IN LINE	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP	PATCH PATTERN VAD'S ARRAY	
GEOPHONES PER PATCH 32	NO. OF RECORDING PATCHES 48	TYPE VIBRATOR 341100 24900	TYPE GEOPHONE EV22B	FREQUENCY 7.5	STATION INTERVAL 330'
REMARKS	OBSERVER Jim Richards		PARTY MGR.		

LINE DIR.
1 TO 24
W → 8

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**RAY GEOPHYSICAL DIVISION
MANDREL INDUSTRIES, INC.**

CLIENT OCORP	AREA Rio Grande Rift - Los Pinos Mount	STATE NEW Mexico	COUNTY SOCORRO	DATE 10-24-75
CREW NO. 6834	TERRAIN	WEATHER		LINE NO. 1

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	F I L T E R			RE MARKS		
							LOCUT	60 ~	AMP			
1	932	Similarity								Time		
2	932	Similarity										
3		CH → 1-24	25-48									
4	98	81	87-110	111-134	3	5/16	IFP	6	9	OUT	9:12	
5	99	82	88-111	112-135	4						9:30	
6	100	83	89-112	113-136	5						9:46	
7	101	84	90-113	114-137	6						9:58	
8	102	85	91-114	115-138	7						10:15	
9	103	86	92-115	116-139	8						10:28	Light wind
10	104	87	93-116	117-140	9						10:40	
11	105	88	94-117	118-141	10						10:53	
12	106	89	95-118	119-142	11						11:06	Moderate wind
13	107	90	96-119	120-143	12						11:20	
14	108	91	97-120	121-144	13						11:33	
15	109	92	98-121	122-145	14						11:45	
16	110	93	99-122	123-146	15						12:06	
17	111	94	100-123	124-147	16						12:17	TRAIN CORR
18	112	95	101-124	125-148	17						12:45	
19	113	96	102-125	126-149	18						1:00	
20	114	97	103-126	127-150	19						1:14	
21	115	98	104-127	128-151	20						1:26	
22	116	99	105-128	129-152	21						1:39	TRAIN
23	117	100	106-129	130-153	22						2:20	
24	118	101	107-130	131-154	23							
25		EOT #6										

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. MDS 8 #110
SWEEP FREQUENCY 10-32 20SEC	SWEEP PATTERN IN LINE	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP	PATCH PATTERN VADIS ARRAY	
GEOPHONES PER PATCH 32	NO. OF RECORDING PATCHES 48	TYPE VIBRATOR 341100 24900	TYPE GEOPHONE EV27B	FREQUENCY 7.5	STATION INTERVAL 330'
REMARKS		OBSERVER Jim Richards		PARTY MGR.	

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**RAY GEOPHYSICAL DIVISION
MANDREL INDUSTRIES, INC.**

CLIENT COCORP	AREA Rio Grande Rift - Los Pinos Mount	STATE New Mexico	COUNTY SOCORRO	DATE 10-24-75
CREW NO. 6834	TERRAIN	WEATHER		LINE NO. 1

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	F I L T E R			REMARKS
							LOCUT	60 ~	TAME	
1	101	107-130 131-154	23	5/16	IFP	7	9	OUT	2:40	MODERATE WIND BOT #7.
2	102	108-131 132-155	24						3:10	TRAIN
3	103	109-132 133-156	25						+ 3:30	CATTLE ON LINE
4	104	110-133 134-157	26						+ 3:55	
5	105	111-134 135-158	27						4:10	TRAIN
6	106	112-135 136-159	28						4:30	
7	107	113-136 137-160	29						4:47	TRAIN
8										2 TRAINS
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. MDS 8 #110
SWEEP FREQUENCY 10-32 20SEC	SWEEP PATTERN INLINE	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP	PATCH PATTERN VADIS ARRAY	
GEOPHONES PER PATCH 32	NO. OF RECORDING PATCHES 48	TYPE VIBRATOR 341100 24900	TYPE GEOPHONE EV22B	FREQUENCY 7.5	STATION INTERVAL 330'
REMARKS			OBSERVER Jimm Richards	PARTY MGR. W → 48	

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

RAY GEOPHYSICAL DIVISION
MANDREL INDUSTRIES, INC.

CLIENT COCORP	AREA Rio GRANDE Rift - Los Pinos Mount.	STATE New Mexico	COUNTY SOCORRO	DATE 10-25-75
CREW NO. 6834	TERRAIN	WEATHER		LINE NO. 1

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	F I L T E R			RE MARKS		
							LOCUT	60 ~	T.M.N.S.			
1	125	108	114-137	138-161	12	4/16	IFP	7	9	OUT	9:00	CATTLE NEAR 161
2	126	109	115-138	139-162	13						9:45	TRAIN
3	127	110	116-139	140-163	14						10:02	
4	128	111	117-140	141-164	15						10:17	
5	129	112	118-141	142-165	16						11:00	2 TRAINS
6	130	113	119-142	143-166	17	5/16					11:15	
7	131	114	120-143	144-167	18						11:30	TRAIN
8	132	115	121-144	145-168	19						12:05	
9	133	116	122-145	146-169	20						12:17	TRAIN 2 INST. Problems 30 MIN
10	134	117	123-146	147-170	21						13:45	
11	135	118	124-147	148-171	22						14:05	
12	136	119	125-148	149-172	23						14:20	REINITIALIZE - TRAIN
13	137	120	126-149	150-173	24						15:00	CATTLE ON LINE - NOISEY
14	138	121	127-150	151-174	25						15:55	TRAIN
15	139	122	128-151	152-175	26						16:20	TRAIN
16	140	123	129-152	153-176	27						16:42	TRAIN
17												1 HR Lost - INSTRUMENTS
18												
19												
20												
21												
22												
23												
24												
25												

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. MDS 8 #110
SWEEP FREQUENCY 10-32-205E4	SWEEP PATTERN IN LINE	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP	PATCH PATTERN VADIS ARRAY	
GEOPHONES PER PATCH 32	NO. OF RECORDING PATCHES 48	TYPE VIBRATOR 391100 24900	TYPE GEOPHONE EV22B	FREQUENCY 7.5	STATION INTERVAL 330'
REMARKS			OBSERVER Jim Richards	PARTY MGR.	
LINE DIR. 1 TO 24 W → E					

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**RAY GEOPHYSICAL DIVISION
MANDREL INDUSTRIES, INC.**

CLIENT CO CORP	AREA RIOGRANDE RIFT - LOS PINOS MOUNT	STATE NEW MEXICO	COUNTY SOCORRO	DATE 10-26-75
CREW NO. 6834	TERRAIN	WEATHER		LINE NO. 1

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	FILTER			REMARKS
							LOCUT	60 ~	TIME	
1	932	SIMILARITY	5	VIBS						
2										
3	140	123	129-152	153-176	17	5/16	IFP	7	9	OUT 10:05 10:40 TRAIN
4	141	124	130-153	154-177	18					11:00 TRAIN
5	142	125	131-154	155-178	19					11:21
6	143	126	132-155	156-179	20					11:33 TRAIN
7	144	127	133-156	157-180	21					11:55
8	145	128	134-157	158-181	22					12:07 CATTLE ON LINE
9	146	129	135-158	159-182	23					12:19 TRAIN
10	147	130	136-159	160-183	24					12:36 TRAIN
11	148	131	137-160	161-184	25					13:00 TRAIN
12	149	132	138-161	162-185	26					
13										
14										
15	~~~~~									
16										
17	EOT #7									
18										
19										
20										
21										
22										
23										
24										
25										

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. MDS8 #110
SWEEP FREQUENCY 10-32	SWEEP PATTERN 20SEC inline	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP	PATCH PATTERN VADIS ARRAY	
GEOPHONES PER PATCH 32	NO. OF RECORDING PATCHES 40	TYPE VIBRATOR 34100 34900	TYPE GEOPHONE EV 22B	FREQUENCY 7.5	STATION INTERVAL 330
REMARKS			OBSERVER Jim Richards	PARTY MGR.	

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**RAY GEOPHYSICAL DIVISION
MANDREL INDUSTRIES, INC.**

CLIENT COCORP	AREA RIO GRANDE RIFT - LOS PINOS MOUNT	STATE New Mexico	COUNTY SOCORRO	DATE 10-26-75
CREW NO. 6834	TERRAIN	WEATHER		LINE NO. 1

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	F I L T E R			RE MARKS
							LOCUT	60 ~	AMP TIME	
1	133	139-162 163-186	27	5/16	IPP	8	9	OUT	13:45	Hiway Traffic 182-183 BOT#8
2	134	140-163 164-187	28						14:00	TRAIN
3	135	141-164 165-188	29						14:25	TRAIN
4	136	142-165 166-189	30						14:47	
5	137	143-166 167-190	31						15:10	Light wind
6	138	144-167 168-191	32						15:30	
7	139	145-168 169-192	33						15:52	TRAIN 2
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										

TOO MUCH TRAFFIC
NOISE

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. MDS 8 #110
SWEEP FREQUENCY 10-32 20SEC	SWEEP PATTERN INLINE	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP	PATCH PATTERN VADIS ARRAY	
GEOPHONES PER PATCH 32	NO. OF RECORDING PATCHES 48	TYPE VIBRATOR 341100 24900	TYPE GEOPHONE E V 22B	FREQUENCY 7.5	STATION INTERVAL 330'
REMARKS			OBSERVER Jim Richards	PARTY MGR.	

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

RAY GEOPHYSICAL DIVISION
MANDREL INDUSTRIES, INC.

CLIENT COCORP	AREA RIOGRANDE RIFT - LOS PINOS MOUNT	STATE NEW MEXICO	COUNTY SOCORRO	DATE 10-27-75
CREW NO. 6834	TERRAIN	WEATHER		LINE NO. 1

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	F I L T E R			REMARKS	
							LOCUT	60 ~	AMP		
1	932	Similarity								Time	
2		CH → 1-24									
3	156	139	145-168	169-192	11	5/16	IFP	8	9	OUT 9:00	MODERATE WIND
4	157	140	146-169	170-193	12					9:15	
5	158	141	147-170	171-194	13					9:28	
6	159	142	148-171	172-195	14					9:40	TRAIN 2
7	160	143	149-172	173-196	15					10:12	TRAIN
8	161	144	150-173	174-197	16					10:38	
9	162	145	151-174	175-198	17					10:52	
10	163	146	152-175	176-199	18					11:04	
11	164	147	153-176	177-200	19					11:16	
12	165	148	154-177	178-201	20					11:35	
13	166	149	155-178	179-202	21					11:57	
14	167	150	156-179	180-203	22					12:08	
15	168	151	157-180	181-204	23					12:35	
16	169	152	158-181	182-205	24					12:47	
17	170	153	159-182	183-206	25					13:02	
18	171	154	160-183	184-207	26					13:15	TRAIN
19	172	155	161-184	185-208	27					13:45	TRAIN
20	173	156	162-185	186-209	28					14:25	
21	174	157	163-186	187-210	29					14:42	
22	175	158	164-187	188-211	30					15:09	TRAIN-STRONG WINDS
23											
24											TOO MUCH WIND
25											

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. MDS 8 #110
SWEEP FREQUENCY 10-32-20 SEC	SWEEP PATTERN INLINE	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP	PATCH PATTERN VADIS ARRAY	
GEOPHONES PER PATCH 32	NO. OF RECORDING PATCHES 48	TYPE VIBRATOR 341100 24900	TYPE GEOPHONE EV22B	FREQUENCY 7.5	STATION INTERVAL 330'
REMARKS			OBSERVER Jim Richards	PARTY MGR.	

156-139-145-168-169-192

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**RAY GEOPHYSICAL DIVISION
MANDREL INDUSTRIES, INC.**

CLIENT COCORP	AREA RIOGRANDE RIFT - LOS PINOS MOUNT.	STATE New Mexico	COUNTY SOCORRO	DATE 10-28-75
CREW NO. 6834	TERRAIN	WEATHER		LINE NO. 1

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	F I L T E R			REMARKS
							LOCUT	60 ~	TEMP	
1	932	SIMILARITY								
2										
3	176	159	165-188	189-212	31	5/16	LFP	8	9	OUT 10:08 TRAIN
4	177	160	166-189	190-213	32					10:45
5	178	161	167-190	191-214	33					10:15
6	179	162	168-191	192-215	34					10:30 EOT #8
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. MDSB #110
SWEEP FREQUENCY 10-32 20SEC	SWEEP PATTERN inline	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP	PATCH PATTERN VADIS ARRAY	
GEOPHONES PER PATCH 32	NO. OF RECORDING PATCHES 48	TYPE VIBRATOR 341100 24900	TYPE GEOPHONE EV22B	FREQUENCY 7.5	STATION INTERVAL 330'
REMARKS			OBSERVER Jim Richards	PARTY MGR.	

176-159-165-188-189-212-31

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**RAY GEOPHYSICAL DIVISION
MANDREL INDUSTRIES, INC.**

CLIENT COCORP	AREA Rio Grande Rift	STATE New Mexico	COUNTY Socorro	DATE 10-28-75
CREW NO. 10838	TERRAIN	WEATHER		LINE NO. 1

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	FILTER TIME			REMARKS		
							LOCUT	60 ~	-AMP			
1	180	163	169-192	193-216	35	5/16	JEP	9	9	OUT	11:45	BOT #9
2	181	164	170-193	194-217	36						12:15	
3	182	165	171-194	195-218	37						12:30	
4	183	166	172-195	196-219	38						12:42	
5	184	167	173-196	197-220	39						12:54	
6	185	168	174-197	198-221	40						13:03	
7	186	169	175-198	199-222	41						13:18	
8	187	170	176-199	200-223	42						13:30	
9	188	171	177-200	201-224	43						13:45	
10	189	172	178-201	202-225	44						14:00	High Line Surges on VP 172 Knocking
11	190	173	179-202	203-226	45						14:12	ENGINE Prob. 1 st HR OUT DATA
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 10-32 20SEC	SWEEP PATTERN inline	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP	PATCH PATTERN VADIS ARRAY	
GEOPHONES PER PATCH 32	NO. OF RECORDING PATCHES 48	TYPE VIBRATOR 341100 24900	TYPE GEOPHONE EV 22B	FREQUENCY 7.5	STATION INTERVAL 330'
REMARKS	OBSERVER Jim Richards	PARTY MGR.	LINE DIR. 1 - 48 1 TO 24 W → S		

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

RAY GEOPHYSICAL DIVISION
MANDREL INDUSTRIES, INC.

CLIENT COCORP	AREA RIOGRANDE RIFT - LOS PINOS MOUNT	STATE New Mexico	COUNTY SOCORRO	DATE 10-29-75
CREW NO. 6834	TERRAIN	WEATHER		LINE NO. 1

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	F I L T E R			REMARKS
							LOCUT	60 ~	AMP	
1	932 Similarity	4 Vib								Time Vib's Down 2 HRS
2										
3	190 173	179-202 203-226	29	4/16	IFP	9	9	OUT	11:10	3 TRAINS
4	191 174	180-203 204-227	30						12:10	
5	192 175	181-204 205-228	31						12:30	
6	193 176	182-205 206-229	32						12:44	
7	194 177	183-206 207-230	33						13:00	2 Vib's Down 1.5 HR
8	195 178	184-207 208-231	34						14:45	TRAIN
9	196 179	185-208 209-232	35						15:15	
10	197 180	186-209 210-233	36						15:26	
11	198 181	187-210 211-234	37						15:40	
12	199 182	188-211 212-235	38						15:52	
13	200 183	189-212 213-236	39						16:45	Vib go AROUND
14		189-								
15	~~~~~									
16										
17										
18		EOD								
19										
20										
21										
22										
23										
24										
25										

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. MDS 8 #110
SWEEP FREQUENCY 10-32 20SEC	SWEEP PATTERN inline	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP	PATCH PATTERN NAD'S ARRAY	
GEOPHONES PER PATCH 32	NO. OF RECORDING PATCHES 18	TYPE VIBRATOR 241100 24900	TYPE GEOPHONE EV22B	FREQUENCY 7.5	STATION INTERVAL 330'
REMARKS			OBSERVER John Richards	PARTY MGR.	

OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

RAY GEOPHYSICAL DIVISION
MANDREL INDUSTRIES, INC.

CLIENT Co Corp	AREA RIO GRANDE RIFT - Los PINOS MOUNT	STATE N. MEXICO	COUNTY COCONDO	DATE 10-31-75
CREW NO. 6834	TERRAIN	WEATHER		LINE NO. 1

REC.NO.	SWEEP POINT	PATCH LOCATIONS		CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	F I L T E R			RE MARKS
								LOCUT	60~	AMP	
1	932	Similarity	5 VIB								10-30-75 Bad WEATHER (WINDY)
2											10-31-75 Bad WEATHER (WINDY)
3											11-1-75 Bad WEATHER (WINDY)
4										TIME	11-2-75 Bad WEATHER (WINDY)
5	201	184	190-213 214-237	22	5/16	1FP	9	9	OUT	5.45	11-3-75
6	202	185	191-214 215-238	23	5/16	1FP	9	9	OUT	6.40	3 TRAINS
7	203	186	192-215 216-239	24	5/16	1FP	9	9	OUT	6.52	
8	204	187	193-216 217-240	25	5/16	1FP	9	9	OUT	7.07	
9	205	188	194-217 218-241	26	5/16	1FP	9	9	OUT	7.20	
10	206	189	195-218 219-242	27	5/16	1FP	9	9	OUT	7.35	
11	207	190	196-219 220-243	28	5/16	1FP	9	9	OUT	7.50	
12	208	191	197-220 221-244	29	5/16	1FP	9	9	OUT	8.14	1 TRAIN
13			/ EOT /								
14	209	192	198-221 222-245	30	5/16	1FP	10	9	OUT	9.16	2 TRAIN RE-INITIALIZED
15	210	193	199-222 223-246	31	5/16	1FP	10	9	OUT	9.56	1 TRAIN RE-INITIALIZED
16	211	194	200-223 224-247	32	5/16	1FP	10	9	OUT	10.02	
17	212	195	201-224 225-248	33	5/16	1FP	10	9	OUT	10.14	
18	213	196	202-225 226-249	34	5/16	1FP	10	9	OUT	10.35	
19	214	197	203-226 227-250	35	5/16	1FP	10	9	OUT	10.47	
20	215	198	204-227 228-251	36	5/16	1FP	10	9	OUT	11.27	2 TRAINS Vibrators stuck
21	216	199	205-228 229-252	37	5/16	1FP	10	9	OUT	12.05	
22	217	200	206-229 230-253	38	5/16	1FP	10	9	OUT	13.19	1 TRAIN Vibrators GO AROUND
23	218	202	208-231 232-255	40	5/16	1FP	10	9	OUT	13.42	1 TRAIN SKIPPED 1 V.P. Rough TERRAIN
24	219	207	213-236 237-260	45	4/16	1FP	10	9	OUT	14.42	2 TRAINS. SKIPPED 5 V.Ps LOST 1 VIBRATOR (TRANSMISSION)
25	220	208	214-237 238-261	46	4/16	1FP	10	9	OUT	14.55	1 TRAIN V.P. NOT COMPLETED Due to VIBRATOR FAILURE

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. MDS-8 # 110
SWEEP FREQUENCY 10-32 20 SEC	SWEEP PATTERN	SWEEPS PER PATTERN	SWEEP PATTERNS PER SETUP	PATCH PATTERN Vadis ARRAY	
GEOPHONES PER PATCH 32	NO. OF RECORDING PATCHES 48	TYPE VIBRATOR 3 Y1100 2 Y900	TYPE GEOPHONE EV 22B	FREQUENCY 7.5	STATION INTERVAL 330'
REMARKS		OBSERVER Mc Mill	PARTY MGR.		

OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

RAY GEOPHYSICAL DIVISION
MANDREL INDUSTRIES, INC.

CLIENT <i>Co Corp</i>	AREA <i>Rio GRANDIS RIPT - Los Pinos Mount</i>	STATE <i>N. MEXICO</i>	COUNTY <i>SOCORRO</i>	DATE <i>11-4-75</i>
CREW NO. <i>6834</i>	TERRAIN	WEATHER		LINE NO. <i>1</i>

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	F I L T E R			RE MARKS
							LOCUT	60 ~	TIME	
1	208	214-237 238-261	46	4/16	1FP	10	9	OUT	10.06	2 TRAINS
2	209	215-238 239-262	47	4/16	1FP	10	9	OUT	12.04	1 TRAIN
3	210	216-239 240-263	48	4/16	1FP	10	9	OUT	12.20	
4	<i>similarities</i>	<i>4 Vibrotors</i>							13.58	
5	217	223-246 247-270	19	4/16	1FP	10	9	OUT	16.27	1 TRAIN RE-INITIALIZED - SKIPPED 7 VPs. (ROUGH TERRAIN)
6	218	224-247 248-271	20	4/16	1FP	10	9	OUT	16.52	
7		<i>EOD</i>								
8										
9										
10										
11										
12										
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25										

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. # 110 <i>MDS 8</i>
SWEEP FREQUENCY <i>10-32 20 SEC</i>	SWEEP PATTERN	SWEEPS PER PATTERN	SWEEP PATTERNS PER SETUP	PATCH PATTERN <i>VADIS ARRAY</i>	
GEOPHONES PER PATCH <i>32</i>	NO. OF RECORDING PATCHES <i>48</i>	TYPE VIBRATOR <i>2 Y1100 2 Y900</i>	TYPE GEOPHONE <i>EV22B</i>	FREQUENCY <i>7.5</i>	STATION INTERVAL <i>1-48</i> LINE DIR. <i>1 TO 24 W → E</i>
REMARKS	OBSERVER <i>de mill</i>	PARTY MGR.			

OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

RAY GEOPHYSICAL DIVISION
MANDREL INDUSTRIES, INC.

CLIENT Co Corp	AREA Rio Grande Rift Los Pinos Mount	STATE N. Mexico	COUNTY Socorro	DATE 11-5-75
CREW NO. 6834	TERRAIN	WEATHER		LINE NO. 1

REC.NO.	SWEEP POINT	PATCH LOCATIONS		CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	F I L T E R			REMARKS	
								LOCUT	60 ~	120 ~		
1	225	225-248	249-272	21	4/16	1FP	10	9	out	8.13	2 TRAINS	
2	226	226-249	250-273	22	4/16	1FP	10	9	out	8.43		
3	227	227-250	251-274	23	4/16	1FP	10	9	out	8.55		
4	228	228-251	252-275	24	4/16	1FP	10	9	out	9.07		
5	229	229-252	253-276	25	4/16	1FP	10	9	out	9.19		
6	230	230-253	254-277	26	4/16	1FP	10	9	out	9.31		
7	231	231-254	255-278	27	4/16	1FP	10	9	out	9.43		
8	232	232-255	256-279	28	4/16	1FP	10	9	out	9.55		
9	233	233-256	257-280	29	4/16	1FP	10	9	out	10.09		
10	234	234-257	258-281	30	4/16	1FP	10	9	out	10.23		
11	235	235-258	259-282	31	4/16	1FP	10	9	out	10.35		
12	236	236-259	260-283	32	4/16	1FP	10	9	out	10.47		
13	237	237-260	261-284	33	4/16	1FP	10	9	out	10.59	1 TRAIN	
14	238	238-261	262-285	34	4/16	1FP	10	9	out	11.41	Windmill Noise on 283-284-285	
15	239	239-262	263-285	35	4/16	1FP	10	9	out	11.53		
16		/	E O T /									
17	240	240-263	264-285	36	4/16	1FP	10	9	out	12.27	1 TRAIN	
18	241	241-264	265-285	37	4/16	1FP	11	9	out	12.40		
19	932	Similarity	4 Vibrators	1						13.30	Vibrator Go Around	
20	242	242	248-271	272-285	44	4/16	1FP	11	9	out	14.37	RE-INITIALIZED - SKIPPED 6 V.P. (Rough terrain)
21	243	243	249-272	273-285	45	4/16	1FP	11	9	out	15.02	1 TRAIN
22	244	244	250-273	274-285	46	4/16	1FP	11	9	out	15.14	
23	245	245	251-274	275-285	47	4/16	1FP	11	9	out	15.27	
24	246	246	252-275	276-285	48	4/16	1FP	11	9	out	15.46	
25	247	247	253-276	277-285	49	4/16	1FP	11	9	out	15.59	1 TRAIN

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. MDS 8 #110
SWEEP FREQUENCY 10-32 20 SEC	SWEEP PATTERN	SWEEPS PER PATTERN	SWEEP PATTERNS PER SETUP	PATCH PATTERN VADIS ARRAY	
GEOPHONES PER PATCH 32	NO. OF RECORDING PATCHES 48	TYPE VIBRATOR 2Y1100 2Y900	TYPE GEOPHONE EV228	FREQUENCY 7.5	STATION INTERVAL 330'
REMARKS			OBSERVER W.C. Mills	PARTY MGR.	

OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

RAY GEOPHYSICAL DIVISION
MANDREL INDUSTRIES, INC.

CLIENT <i>Co Corp</i>	AREA <i>Rio Grande Rift - Los Pinos Mount</i>	STATE <i>N. MEXICO</i>	COUNTY <i>SOCORRO</i>	DATE <i>11-5-75</i>
CREW NO. <i>6834</i>	TERRAIN	WEATHER		LINE NO. <i>1</i>

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	F I L T E R			RE MARKS
							LOCUT	60 ~	7 ~	
1	248	254-276 277-285	50	4/16	1FP	11	9	out	16.22	
2	249	255-277 278-285	51	4/16	1FP	11	9	out	16.35	
3	250	256-278 279-285	52	4/16	1FP	11	9	out	16.47	
4	251	257-279 280-285	53	4/16	1FP	11	9	out	16.59	1 TRAIN
5		<i>1 EOD 1</i>								
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TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. <i>#</i> <i>MDS-8 110</i>
SWEEP FREQUENCY <i>10-32 20 SEC</i>	SWEEP PATTERN	SWEEPS PER PATTERN	SWEEP PATTERNS PER SETUP	PATCH PATTERN <i>VADIS ARRAY</i>	
GEOPHONES PER PATCH <i>32</i>	NO. OF RECORDING PATCHES <i>48</i>	TYPE VIBRATOR <i>2x1100 2x900</i>	TYPE GEOPHONE <i>EV22B</i>	FREQUENCY <i>7.5</i>	STATION INTERVAL <i>330'</i>
REMARKS			OBSERVER <i>McMill</i>	PARTY MGR.	
			LINE DIR. <i>1-48</i> <i>W → E</i>		

OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

RAY GEOPHYSICAL DIVISION
MANDREL INDUSTRIES, INC.

CLIENT <i>Co Corp</i>	AREA <i>Rio GRAND RIFT - Los Pinos Mount.</i>	STATE <i>N. MEXICO</i>	COUNTY <i>SOCORRO</i>	DATE <i>11-6-75</i>
CREW NO. <i>6834</i>	TERRAIN	WEATHER		LINE NO. <i>1</i>

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	F I L T E R			RE MARKS
							LOCUT	60 ~	AMP	
<i>1</i>	<i>932</i>	<i>similarities</i>							<i>7.24</i>	
<i>2</i>	<i>252</i>	<i>160</i>	<i>10</i>	<i>5/16</i>	<i>1FP</i>	<i>11</i>	<i>9</i>	<i>out</i>	<i>9.03</i>	<i>Velocity SPREAD Poor Radio Reception</i>
<i>3</i>	<i>253</i>	<i>136</i>	<i>34</i>	<i>5/16</i>	<i>1FP</i>	<i>11</i>	<i>9</i>	<i>out</i>	<i>9.50</i>	<i>RE-INITIALIZED Velocity SPREAD Poor Radio Reception</i>
<i>4</i>										
<i>5</i>	<i>254</i>	<i>252</i>	<i>258-281</i>	<i>282-285</i>	<i>54</i>					<i>CH 1-28</i>
<i>6</i>	<i>255</i>	<i>253</i>	<i>259-282</i>	<i>283-285</i>	<i>55</i>					<i>1-27</i>
<i>7</i>	<i>256</i>	<i>254</i>	<i>260-283</i>	<i>284-285</i>	<i>56</i>					<i>1-26</i>
<i>8</i>	<i>257</i>	<i>255</i>	<i>261-284</i>	<i>285</i>	<i>57</i>					<i>1-25</i>
<i>9</i>	<i>258</i>	<i>256</i>	<i>262-285</i>	<i>58</i>						<i>1-24 High WINDS</i>
<i>10</i>										
<i>11</i>										
<i>12</i>										
<i>13</i>										
<i>14</i>										
<i>15</i>										
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<i>20</i>										
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<i>24</i>										
<i>25</i>										

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. # <i>MDS-8 110</i>
SWEEP FREQUENCY <i>10-32 20 SEC</i>	SWEEP PATTERN	SWEEPS PER PATTERN	SWEEP PATTERNS PER SETUP	PATCH PATTERN <i>VADIS ARRAY</i>	
GEOPHONES PER PATCH <i>32</i>	NO. OF RECORDING PATCHES <i>48</i>	TYPE VIBRATOR <i>3Y1100 24900</i>	TYPE GEOPHONE <i>EV 22B</i>	FREQUENCY <i>7.5</i>	STATION INTERVAL <i>330'</i>
REMARKS			OBSERVER <i>Jim Richards</i>	PARTY MGR.	

**OBSERVER'S REPORT
DIGITAL RECORDER**

Petty-Ray Geophysical, Inc.
Subsidiary of Geosource International Inc.

Client COCORP		Area Prospect Rio Grande Rift - Los Pinos Mount		State NEW MEXICO		County SOCORRO		Date 11-7-75	
Crew No. 6834		Terrain		Weather		Leave Office	Arrive Field	Leave Field	Arrive Office

	Rec.No.	Sweep Point	Patch Location	CDP SW	NO VIB	Tape Reel	Amp Gain	REMARKS
1	259	257	263-285	60	4/16	11	IFP	CH 1-23
2	260	258	264-285	61				1-22
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Sweep Frequency 10-32 205		Sweep Length 20 SEC		Record Time 40 SEC		Type Energy Source Vib		Sweep Pattern IN/LINE		Sweeps Per Pattern 16	
Type Geophone EV22B		Freq. 75		Geophone per Patch 32		Patch Pattern VADIS ARRAY		No. of Recording Patches 48		Station Interval 330'	
Type Record System MDS 8 # 110		Type Amps IFP		Amp Operate Mode		Filters Lo 9		Hi 31		Notch <input checked="" type="checkbox"/> Out	
Lin Dir 1 to 48 W-E		Total Sweeps		Shots		Total Coverage		Fold 24		Observer Jim Richards	
										Party Mgr.	

Type Vibrators
**24980
341100**

OBSERVER'S REPORT
DIGITAL RECORDER

Petty-Ray Geophysical, Inc.
Subsidiary of Geosource International Inc.

Client CO CORP		Area Prospect Rio Grande Rift - Los Pinos Mount		State New Mexico		County SOCORRO		Date 11-8-75	
Crew No. 6834	Terrain		Weather		Leave Office	Arrive Field	Leave Field	Arrive Office	Line No. 1

Rec.No.	Sweep Point	Patch Location	CDP SW	NO VIB	Tape Reel	Amp Gain	REMARKS
1	932	Similarity			12		
2		CH 1-24					Time
3	261	259	265-285	⁴⁹ 4/16		IFP	CH 1-21 13:15
4	262	260	266-285	50			1-20 13:30
5	263	261	267-285	51			1-19 13:45
6	264	262	268-285	52			1-18 TRAIN 14:00
7	265	263	269-285	53			1-17 14:20
8	266	264	270-285	54			1-16 14:30
9	267	265	271-285	55			1-15 TRAIN 14:50
10	268	266	272-285	56			1-14 15:10
11	269	267	273-285	57			1-13 15:22
12	270	268	274-285	58			1-12 15:35
13		CH 25-48					
14	271	276	153-270	7			CH 31-48 UNABLE TO VIB STA. 74 & 75 16:30
15	272	277	153-271	8			30-48 16:30 16:45
16	273	278	153-272	9			29-48 17:00
17							
18							
19							
20							
21							
22							
23							
24							
25							

Sweep Frequency 10-32		Sweep Length 20 SEC		Record Time 40 SEC		Type Energy Source Vib		Sweep Pattern INLINE		Sweeps Per Pattern 16	
Type Geophone EV 22B	Freq. 7.5	Geophone per Patch 32		Patch Pattern Vadis ARRAY		No. of Recording Patches 48		Station Interval 330'		Sweep Pattern per Set Up	
Type Record System MDS 8 #101			Type Amps		Amp Operate Mode IFP		Filters Lo 9 Hi 31		Notch <input checked="" type="checkbox"/> Out		Type Vibrators 34980 341100
Lin Dir 1 to 48 W → E		Total Sweeps		Shots	Total Coverage		Fold 24	Observer Jimm Richards		Party Mgr.	

OBSERVER'S REPORT
DIGITAL RECORDER

Petty-Ray Geophysical, Inc.
Subsidiary of Geosource International Inc.

Client COCORP		Area Prospect RIO GRANDE RIFT - LOS PINOS MOUNT		State NEW MEXICO		County SOCORRO		Date 11-9-75	
Crew No. 16834	Terrain		Weather		Leave Office	Arrive Field	Leave Field	Arrive Office	Line No. 1

Rec.No.	Sweep Point	Patch Location	CDP SW	NO VIB	Tape Reel	Amp Gain	REMARKS	Time
1	274	279	153-273	10	4/16	12	CH 28-48	8:54
2	275	280	153-274	11			27-48	9:10
3	276	281	153-275	12			26-48	9:30
4	277	282	153-276	13			25-48	9:50
5	278	283	153 154-277	14			24-48	10:10
6							UNABLE TO VIB 284-285	
7								
8								
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EOL

Sweep Frequency 10-32		Sweep Length 20 SEC		Record Time 40 SEC		Type Energy Source Vib		Sweep Pattern IN LINE		Sweeps Per Pattern 16		
Type Geophone EV22B	Freq. 7.5	Geophone per Patch 32		Patch Pattern VADIS ARRAY		No. of Recording Patches 48		Station Interval 330'		Sweep Pattern per Set Up		
Type Record System MDS 8 # 101			Type Amps		Amp Operate Mode JFP		Filters Lo In 9		Hi In 31		Notch <input checked="" type="checkbox"/> Out	Type Vibrators 24700 74100
Lin Dir 1 to 48 W → E		Total Sweeps		Shots	Total Coverage		Fold 24		Observer Jim Richards		Party Mgr.	