

STATE UTAH COUNTY EMERY DATE 10-21-82
 WEATHER clear LINE NO. 164

I	G.P.	DESCRIPTION	TIME	AMPS	L	T	E	R	REMARKS
									B.O.T. #164 900 10sec ALL ONES.
									NOTE: VERY NOISE along LINE, TRAFFIC
									4 Vib 100' spacing 41.25 MOVE UP.
									1st Vib +6' Past Flag .8 sweep.
									STA # 11-12 OFF N Due to Bridge. STA # 31 OPEN Due to INTER SECTION
6	932	SIMILARITY	1-32sec	217	4				50% STA # 17311 DOWN, WORKING ON FRONT ENGINE.
7	001	WINDSTRIP	1-52sec	1					66Db STA # 55-62 OPEN Due to TOWN-ORANGEVILLE.
8	002	100	1-96	1	4				50% STA # 65 OFF Due to DRIVEWAY.
9	003	101	2-97	2		1			50%
10	004	102	3-98	3		1			50%
11	005	103	4-99	4					50%
12	006	104	5-100	5					50%
13	007	105	6-101	6					50%
14	008	106	7-102	7					50%
15	009	107	8-103	8					50%
16	010	108	9-104	9		1			50%
17	011	109	10-105	10			16.4		50% E.D.T #164, TAPE MKTS
18	012	110	11-106	11	WINDSTRIP		16.5		66Db B.O.T #165, 900, 10sec ALL ONES.
19	013	110	11-106	11					50%
20	014	111	12-107	12					50%
21	015	112	13-108	13					50%
22	016	113	14-109	14					50%
23	017	114	15-110	15					50%
24	018	115	16-111	16					50%
25	019	116	17-112	17					50%

TOTAL SETUPS _____ TOTAL SWEEPS _____ TOTAL COVERAGE _____ TOTAL FIELD TIME _____ DRIVING TIME _____ SYSTEM NO. _____

SWEEP FREQUENCY 8ms-32Hz/32sec SWEEP PATTERN SEE REMARKS SWEEPS PER PATTERN 8 SWEEP PATTERNS PER SETUP 1 PATCH PATTERN |||||x|||||

GEOPHONES PER PATCH 24 NO. OF RECORDING PATCHES 96 TYPE VIBRATOR 5-Y1100's TYPE GEOPHONE ETELV22B FREQUENCY 7.5HZ STATION INTERVAL 330' LINE DIR. W→E

REMARKS 8ms SAMPLE RATE-1/52sec Record Len OBSERVER R. PATTON, M. RICHEY PARTY MGR. L. DAVIS

OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

Exploration Services **2**
Division
Geosource Inc.

CLIENT COCORP	AREA UTAH	STATE UTAH	COUNTY EMERY	DATE 10-22-82
CREW NO. 6834	TERRAIN Dirt Road	WEATHER partly cloudy		LINE NO. 4

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	F I L T E R			REMARKS
							LOCUT	80 ~	AMP	
1	PULSE	1-6sec			165	165	OUT	IN		Recorder set at 86-87
2	EWT	2-11 "								NOTE: Very NOISE along line, due to traffic.
3	D.R.D	4-11 "								4 Vibs 100' spacing 41.25 MOVE UP. 1st Vib +6' Past
4	Sumtest	2-11 "								Flag. 8 SWEEP. STA#31 OPEN DUE TO INTERSECTION.
5	N.R.J.	2-11 "								Vib #17311 DOWN, WORKING ON FRONT ENGINE.
6	Similarity	1-32sec	217	4		165			50%	E.O.T. #165, TAPE MKTS. STA#55-62 OPEN DUE TO TOWN.
7	WINDstrip	1-52sec	4			166			60db	B.O.T. #166, 900 10sec ALL ONES. STA#65 OPEN DUE TO DRIVEWAY.
8	117	18-113	4	4					50%	
9	118	19-114	5						50%	
10	119	20-115	6						50%	
11	SKIP	21-116	7						SKIP	Due to HI-WAY.
12	121	22-117	8						20%	Vib went to LOW-DRIVE 20%, Due to PAVEMENT.
13	122	23-118	9						20%	
14	123	24-119	10						20%	
15	124	25-120	11						20%	
16	125	26-121	12						20%	
17	126	27-122	13						20%	
18	127	28-123	14						20%	
19	128	29-124	15		1	166			20%	EOT #166 Tape MKTS
20	129	30-125	16	wind	strip	167			66db	Bot #167 *900 10 sec All ones.
21	129	30-125	16						20%	
22	130	31-126	17						20%	
23	131	32-127	18						20%	
24	132	33-128	19						20%	
25	133	34-129	20						20%	

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8-32 Hz / 32 sec		SWEEP PATTERN see REMARKS		SWEEPS PER PATTERN 8	
SWEEP PATTERNS PER SETUP 1		PATCH PATTERN x 			
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 5-V1100's	TYPE GEOPHONE ETE1122B	FREQUENCY 7.5 HZ	STATION INTERVAL 330'
REMARKS 8ms SAMPLE RATE / 52sec Record Length.			OBSERVER R. PATTON, M. RICHEY	PARTY MGR. L. DAVIS	

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division**
Geosourc Inc.

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CLIENT COCORP	AREA UTAH	STATE UTAH	COUNTY EMERY	DATE 10-22-82
CREW NO. 6834	TERRAIN Dirt Road + old Black top	WEATHER Partly Cloudy		LINE NO. 4

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	Missed Sweeps	TAPE RL.NO.	F I L T E R			RE MARKS	
							LOCUT	60 ~	AMP		
1	038	134	35-130	21	5		167	OUT	IN	20%	Uib #17311 Back on line.
2	039	135	36-131	22						20%	
3	040	136	37-132	23	1					20%	
4	041	137	38-133	24						20%	
5	042	138	39-134	25						50%	Uibs Back In High Drive.
6	043	139	40-135	26						50%	
7	044	140	41-136	27		167				50%	EOT #167 Tape MKTs
8	045	141	42-137	28	wind scrip	168				66db	Bot #168 *900 10 sec All ones
9	046	141	42-137	28						50%	
10	047	142	43-138	29						50%	
11	048	143	44-139	30						50%	
12	049	144	45-140	31						50%	
13	050	145	46-141	32						50%	
14	051	146	47-142	33						50%	
15	052	147	48-143	34						50%	
16	053	148	49-144	35						50%	
17	054	149	50-145	36						50%	
18	055	150	51-146	37						50%	
19	056	151	52-147	38						50%	
20	057	152	53-148	39		168				50%	E.O.T. #168, TAPE MKTs
21											
22											
23											
24											
25											

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY	SWEEP PATTERN	SWEEPS PER PATTERN	SWEEP PATTERNS PER SETUP	PATCH PATTERN	
GEOPHONES PER PATCH	NO. OF RECORDING PATCHES	TYPE VIBRATOR	TYPE GEOPHONE	FREQUENCY	STATION INTERVAL
REMARKS			OBSERVER	PARTY MGR.	

OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

Exploration Services
Division
Geosource Inc. 4

CLIENT CO CORP	AREA UTAH	STATE UTAH	COUNTY EMERY	DATE 10-25-82
CREW NO. 6834	TERRAIN DIRT Road	WEATHER Cloudy		LINE NO. 4

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	F I L T E R			REMARKS
							LOCUT	80 ~	AMP	
1	933	Pulse	1 - 6 sec			missed sweeps 169	OUT	IN		BOT. 169, 900 10sec ALL ONES.
2	934/935	EINT	2 - " "							Recorder SET AT 123-124
3	936/937	DRD	4 - " "							Very Noise Along Line due to Traffic
4	953/954	Sum TEST	2 - " "							5 vibs 100' spacing 41.25' move up 1st vib starts +56' past
5	960/961	NRTS TEST	2 - " "							Flag, 8 sweeps - STA 55-62 open due to town.
6	932	SPM/PLATY	1 - 32 sec	217	5				50%	STA 65 open due to Drive way.
7	058	WIND STRIP	1 - 52 sec	3					66db	Cable Crossing Highway AT 120-121
8	059	153	34-149	3	5				50%	
9	060	154	55-150	4					50%	
10	061	155	56-151	5					50%	
11	062	156	57-152	6					50%	
12	063	157	58-153	7					50%	
13	064	158	59-154	8					50%	
14	065	159	60-155	9					50%	
15	066	160	61-156	10					50%	
16	067	161	62-157	11					50%	
17	068	162	63-158	12		169			50%	EOT * 169 Tape MKTS.
18	069	163	64-159	13	wind strip	170			66db	BOT * 170 * 900 10sec ALL ONES.
19	070	163	64-159	13					50%	
20	071	164	65-160	14					50%	
21	072	165	66-161	15					50%	
22	073	166	67-162	16					50%	
23	074	167	68-163	17					50%	
24	075	168	69-164	18					50%	
25	076	169	70-165	19					50%	

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8 → 32Hz / 32 sec		SWEEP PATTERN See Remarks	SWEEPS PER PATTERN 8	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN x
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 5-Y 1100's	TYPE GEOPHONE ETLEV 22B	FREQUENCY 7.5Hz	STATION INTERVAL 330'
REMARKS 8ms Sample Rate / 52 sec Record Length			OBSERVER R. Patten	PARTY MGR. M. Richey	

OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

Exploration Services
Division 5
Geosource Inc.

CLIENT COCORP		AREA UTAH		STATE UTAH		COUNTY EMERY		DATE 10-25-82			
CREW NO. 6834		TERRAIN Dirt Road		WEATHER Partly cloudy				LINE NO. 4			
REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	Missed Sweeps	TAPE RL.NO.	F I L T E R			REMARKS	
							LOCUT	60 ~	AMP		
1	077	170	71-166	20	5	170	OUT	IN	502		
2	078	171	72-167	21					502		
3	079	172	73-168	22		170			502	EOT * 170 TAPE MKTS.	
4											
5											
6											
7											
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9											
10											
11											
12											
13											
14											
15											
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18											
19											
20											
21											
22											
23											
24											
25											
TOTAL SETUPS		TOTAL SWEEPS		TOTAL COVERAGE			TOTAL FIELD TIME		DRIVING TIME	SYSTEM NO.	
SWEEP FREQUENCY		SWEEP PATTERN		SWEEPS PER PATTERN		SWEEP PATTERNS PER SETUP		PATCH PATTERN			
GEOPHONES PER PATCH		NO. OF RECORDING PATCHES		TYPE VIBRATOR		TYPE GEOPHONE		FREQUENCY		STATION INTERVAL	LINE DIR. 1 TO 24
REMARKS						OBSERVER			PARTY MGR.		

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division**
Geosource Inc.

CLIENT COCORP	AREA UTAH	STATE UTAH	COUNTY EMERY	DATE 10-26-82
CREW NO. 6834	TERRAIN Dirt Road	WEATHER Cloudy + wet		LINE NO. 4

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB.	Missed Sweeps	TAPE RL.NO.	FILTER			REMARKS
							LOCUT	80~	AMP	
1	933	Pulse	1-6 sec			171	OUT	IN		Bot *171 *900 10 sec All ones
2	934/935	EINT	2- " "							Recorder set AT 137-138.
3	936/939	DRD	4- " "							Cable Crossing Highway AT 120-121
4	953/954	Sum TEST	2- " "							LOT OF TRAFFIC ALONG LINE.
5	960/961	NRJ TEST	2- " "							5 Uibs 100' spacing 41.25' move up 1st Uib starts
6	932	Similarity	1-32 sec	217	4				50%	+56' Past Flag. 8 sweeps.
7	080	wind strip	1-52 sec	9					66db	Uib *25865 Down. Bad Gen. Card.
8	081	173	74-169	9	4				50%	4 Uibs 100' spacing 41.25' move up. 1st Uib starts
9	082	174	75-170	10					50%	+6' Past Flag. 8 sweeps.
10	083	175	76-171	11					50%	
11	084	176	77-172	12					50%	
12	085	177	78-173	13					50%	
13	086	178	79-174	14					50%	
14	087	179	80-175	15	5	1			50%	Uib *25865 Back on Line. had to Re Program Gen. Card.
15	088	180	81-176	16					50%	
16	089	181	82-177	17					50%	
17	090	182	83-178	18		171			50%	EDT *171 Tape MKTs
18	091	183	84-179	19	wind strip	172			66db	Bot *172 *900 10 sec All ones.
19	092	183	84-179	19					50%	Light MIST starting to Fall.
20	SKIP	184	85-180	20					SKIP	184-191 Due TO CROSS COUNTRY.
21	093	192	93-188	28					50%	OFFSET 270' South.
22	094	193	94-189	29					50%	OFFSET 120' South.
23	095	194	95-190	30					50%	
24	096	195	96-191	31					50%	
25	SKIP	196	97-192	32					SKIP	Due TO water well.

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8 → 32 Hz / 32 sec		SWEEP PATTERN See Remarks	SWEEPS PER PATTERN 8	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN x
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 5-Y 1100's	TYPE GEOPHONE ETL EV 22B	FREQUENCY 7.5 Hz	STATION INTERVAL 330'
REMARKS 8 ms Sample Rate / 52 sec Record Length			OBSERVER R. Patton	PARTY MGR. M. Richey	
					LINE DIR. 1 TO 24 W → E

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division
Geosource Inc.**

CLIENT COCORP	AREA UTAH	STATE UTAH	COUNTY EMERY	DATE 10-26-82
CREW NO. 6834	TERRAIN Dirt Road + Rolling Hills	WEATHER Cloudy + wet		LINE NO. 4

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	missed Sweeps	TAPE RL.NO.	F I L T E R			RE MARKS
							LOCUT	60 ~	AMP	
1	SKIP	98 - 193	33	5		172	OUT	IN	SKIP	Due to water well.
2	097	99 - 194	34						50%	
3	098	100 - 195	35		1				50%	
4	099	101 - 196	36						50%	
5	100	102 - 197	37						50%	
6	101	103 - 198	38						50%	
7	102	104 - 199	39						50%	
8	103	105 - 200	40			172			50%	EOT * 172 Tape MCTs
9	104	106 - 201	41		wind strip	173			66Db	BOT * 173 * 900 10sec All ones
10	105	106 - 201	41						50%	Beginning to Rain Harder Picking up leakage shutting DOWN.
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.
SWEEP FREQUENCY	SWEEP PATTERN	SWEEPS PER PATTERN	SWEEP PATTERNS PER SETUP	PATCH PATTERN	
GEOPHONES PER PATCH	NO. OF RECORDING PATCHES	TYPE VIBRATOR	TYPE GEOPHONE	FREQUENCY	STATION INTERVAL
REMARKS			OBSERVER	PARTY MGR.	

OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

Exploration Services
Division
Geosource Inc. 8

CLIENT COCORP	AREA UTAH	STATE UTAH	COUNTY EMERY	DATE 10-27-82
CREW NO. 6834	TERRAIN Dirt Road	WEATHER Partly Cloudy + wet		LINE NO. 4

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	933 Pulse	1 - 6 sec			missed sweeps	173	OUT	IN		Recorder set At 173-174
2	934/935 EINT	2 - " "								Cable crossing Highway At 120-121
3	936/939 DRD	4 - " "								
4	933/934 SumTEST	2 - 4 "								5 vibs 100' spacing 41.25' move up 1st vib starts
5	960/961 NRJ TEST	2 - " "								+56' Past Flag, 8 sweeps.
6	932 Similarity	1 - 32 sec	217	5					50%	
7	106 Wind Strip	1 - 52 sec	6						66db	
8	107 206	107 - 202	6	5					50%	
9	108 207	108 - 203	7						50%	
10	109 208	109 - 204	8						50%	
11	110 209	110 - 205	9						50%	
12	111 210	111 - 206	10						50%	
13	112 211	112 - 207	11						50%	
14	113 212	113 - 208	12						50%	
15	114 213	114 - 209	13			173			50%	EOT* 173 Tape MKTS
16	115 214	115 - 210	14		wind strip	174			66db	BOT* 174 *900 10sec All ones.
17	116 214	115 - 210	14						50%	
18	117 215	116 - 211	15						50%	
19	118 216	117 - 212	16						50%	
20	119 217	118 - 213	17						50%	Wind picking up. 12 to 14 MPH.
21	120 218	119 - 214	18						50%	
22	121 219	120 - 215	19						50%	
23	122 220	121 - 216	20						50%	
24	123 221	122 - 217	21						50%	
25	124 222	123 - 218	22						50%	

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8 → 32 Hz / 32 sec	SWEEP PATTERN See Remarks	SWEEPS PER PATTERN 8	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN X	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 5-Y 1100's	TYPE GEOPHONE ETLEV 22B	FREQUENCY 7.5 Hz	STATION INTERVAL 330'
REMARKS 8 ms Sample Rate / 52 sec Record Length			OBSERVER R. Patton	PARTY MGR. M. Richey	
					LINE DIR. 1 TO 24 W → E

OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

Exploration Services
Division
Geosource Inc.

CLIENT COCORP	AREA UTAH	STATE UTAH	COUNTY EMERY	DATE 10-27-82
CREW NO. 6834	TERRAIN Dirt Road	WEATHER Clear		LINE NO. 4

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	Missed Sweeps	TAPE RL.NO.	F I L T E R			RE MARKS
							LOCUT	60 ~	AMP	
1	125	223	124-219	23	5	174	OUT	IN	50%	
2	126	224	125-220	24					50%	
3	127	225	126-221	25		174			50%	EOT * 174 Tape MKTS
4	128	226	127-222	26	wind strip	175			66db	BOT * 175 * 900 10 sec All ones
5	129	226	127-222	26					50%	
6	130	227	128-223	27					50%	
7	131	228	129-224	28					50%	
8	132	229	130-225	29					50%	
9	133	230	131-226	30					50%	
10	134	231	132-227	31					50%	
11	135	232	133-228	32					50%	
12	136	233	134-229	33					50%	
13	137	234	135-230	34					50%	
14	138	235	136-231	35					50%	
15	139	236	137-232	36					50%	
16	140	237	138-233	37		175			50%	EOT * 175 Tape MKTS
17	141	238	139-234	38	wind strip	176			66db	BOT * 176 * 900 10sec All ones.
18	142	238	139-234	38					50%	
19	143	239	140-235	39					50%	
20	144	240	141-236	40					50%	
21										
22										
23										
24										
25										

TOTAL SETUPS		TOTAL SWEEPS		TOTAL COVERAGE		TOTAL FIELD TIME		DRIVING TIME		SYSTEM NO.	
SWEEP FREQUENCY			SWEEP PATTERN		SWEEPS PER PATTERN		SWEEP PATTERNS PER SETUP		PATCH PATTERN		
GEOPHONES PER PATCH		NO. OF RECORDING PATCHES		TYPE VIBRATOR		TYPE GEOPHONE		FREQUENCY		STATION INTERVAL	
REMARKS		OBSERVER				PARTY MGR.					

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division
Geosource Inc.**

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CLIENT COCORP	AREA UTAH	STATE UTAH	COUNTY EMERY	DATE 10-28-82
CREW NO. 6834	TERRAIN Dirt Road + Rolling Hills	WEATHER Clear	LINE NO. 4	

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	FILTER			REMARKS
							LOCUT	60~	AMP	
1	933 Pulse	1 - 6 sec			missed Sweeps	176	OUT	IN		Recorder set AT 213-214
2	934/935 FINT	2 - " "								
3	936/939 DRD	4 - " "								5 Vib. 100' spacing 41.25' move up. 1st vib starts +56' past Flag. 8 Sweeps.
4	953/954 SWM TEST	2 - " "								
5	960/961 NRT TEST	2 - " "								
6	932 Similarity	1 - 32 sec	217	5						50%
7	145 wind strip	1 - 52 sec	1							66db
8	146 241	142 - 237	1	5						50%
9	147 242	143 - 238	2							50%
10	148 243	144 - 239	3							50%
11	149 244	145 - 240	4							50%
12	150 245	146 - 241	5							50%
13	151 246	147 - 242	6			176				50%
14	152 247	148 - 243	7	wind strip		177				66db
15	153 247	148 - 243	7							50%
16	154 248	149 - 244	8							50%
17	155 249	150 - 245	9							50%
18	156 250	151 - 246	10							50%
19	157 251	152 - 247	11							50%
20	158 252	153 - 248	12							50%
21	159 253	154 - 249	13							50%
22	160 254	155 - 250	14							50%
23	161 255	156 - 251	15							50%
24	162 256	157 - 252	16							50%
25	163 257	158 - 253	17							50%

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
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SWEEP FREQUENCY 8 → 32 sec / 32 sec	SWEEP PATTERN see Remarks	SWEEPS PER PATTERN 8	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN X
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GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 5-Y 110's	TYPE GEOPHONE FTLEU22B	FREQUENCY 7.5 Hz	STATION INTERVAL 330'	LINE DIR. 1 TO 24 W → E
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REMARKS 8 ms Sample Rate / 52 sec Record Length	OBSERVER R. Patton	PARTY MGR. M. Richey	 L. Davis
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**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division
Geosource Inc.**

CLIENT COCORP	AREA UTAH	STATE UTAH	COUNTY EMERY	DATE 10-28-82
CREW NO. 6834	TERRAIN Dirt Road + Rolling Hills	WEATHER Clear		LINE NO. 4

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	Missed Sweeps	TAPE RL.NO.	F I L T E R			REMARKS
							LOCUT	60 ~	AMP	
1	164	258	159 - 254	18	5	177	OUT	IN	50%	EOT #177 Tape MKTs.
2	165	259	160 - 255	19	wind strip	178			66db	BOT #178 *900 10sec All ones.
3	166	259	160 - 255	19					50%	
4	167	260	161 - 256	20					50%	
5	168	261	162 - 257	21					50%	
6	169	262	163 - 258	22					50%	
7	170	263	164 - 259	23					50%	
8	171	264	165 - 260	24					50%	
9	172	265	166 - 261	25					50%	
10	173	266	167 - 262	26					50%	
11	174	267	168 - 263	27					50%	
12	175	268	169 - 264	28					50%	
13	176	269	170 - 265	29					50%	
14	177	270	171 - 266	30		178			50%	EOT #178 Tape MKTs
15	178	271	172 - 267	31	wind strip	179			66db	BOT #179 *900 10sec All ones.
16	179	271	172 - 267	31					50%	
17	180	272	173 - 268	32					50%	
18	181	273	174 - 269	33					50%	
19	182	274	175 - 270	34					50%	
20	183	275	176 - 271	35					50%	
21	184	276	177 - 272	36					50%	
22	185	277	178 - 273	37					50%	
23	186	278	179 - 274	38					50%	
24	187	279	180 - 275	39					50%	
25	188	280	181 - 276	40		179			50%	EOT #179 Tape MKTs.

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY	SWEEP PATTERN	SWEEPS PER PATTERN	SWEEP PATTERNS PER SETUP	PATCH PATTERN	
GEOPHONES PER PATCH	NO. OF RECORDING PATCHES	TYPE VIBRATOR	TYPE GEOPHONE	FREQUENCY	STATION INTERVAL
REMARKS			OBSERVER	PARTY MGR.	

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division
Geosource Inc.**

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CLIENT COCORP	AREA UTAH	STATE UTAH	COUNTY EMERY
CREW NO. 6834		TERRAIN Dirt Road + Rolling Hills	WEATHER Clear to Partly Cloudy
			DATE 10-29-82

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	F I L T E R			REMARKS
							LOCUT	80 ~	AMP	
1	933	Pulse			missed Sweeps	180	out	IN		BOT # 180 * 900 10 sec. All ones.
2	934/935	FINT								Recorder Set AT 249-250
3	936/939	DRD								5 Vibs 100' spacing 41.25' move up 1st vib starts
4	953/954	Sum Test								+56' Past Flag 8 Sweeps.
5	960/961	NRT Test								4 Vibs 100' spacing 41.25' Move up 1st vib starts
6	932	Similarity	217	5					50%	+6' Past Flag 8 Sweeps.
7	189	Wind Strip							66db	
8	190	281	182-277	5					50%	Vib # 17311 Down, Bad Leak.
9	191	282	183-278	6					50%	
10	192	283	184-279	7					50%	
11	193	284	185-280	8					50%	
12	194	285	186-281	9					50%	
13	195	286	187-282	10					50%	
14	196	287	188-283	11					50%	
15	197	288	189-284	12					50%	
16	198	289	190-285	13					50%	
17	199	290	191-286	14		180			50%	Foot # 180 Tape MKTs
18	200	291	192-287	15	wind strip	181			66db	BOT # 181 * 900 10 sec All ones
19	201	291	192-287	15					50%	
20	202	292	193-288	16					50%	
21	203	293	194-289	17	5	1			50%	Vib # 17311 Back on Line.
22	204	294	195-290	18					50%	
23	205	295	196-291	19					50%	
24	206	296	197-292	20					50%	
25	207	297	198-293	21	4				50%	Vib # 17311 Down, Not Shaking.

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8 → 32 Hz / 32 sec		SWEEP PATTERN See Remarks		SWEEPS PER PATTERN 8	
SWEEP PATTERNS PER SETUP 1		PATCH PATTERN x			
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 5-Y 1100's	TYPE GEOPHONE ETLEV22B	FREQUENCY 7.5 Hz	STATION INTERVAL 330'
REMARKS 8 ms Sample Rate / 52 sec Record Length			OBSERVER R. Patton	PARTY MGR. M. Richey	LINE DIR. 1 TO 24 W → E

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division**
Geosource Inc. 13

CLIENT COCORP	AREA UTAH	STATE UTAH	COUNTY EMERY	DATE 10-29-82
CREW NO. 6834	TERRAIN Dirt Road + Rolling Hills	WEATHER Partly Cloudy		LINE NO. 4

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	Missed Sweeps	TAPE RL.NO.	F I L T E R			REMARKS
							LOCUT	80 ~	AMP	
1	208	199-294	22	4		181	OUT	IN	50%	
2	209	200-295	23	5					50%	*17311 Back on Line, cleaned cards.
3	210	201-296	24						50%	
4	211	202-297	25						50%	
5	212	203-298	26			181			50%	EOT # 181 Tape MKTs
6	213	204-299	27		wind strip	182			66db	BOT # 182 # 900 10sec All ones.
7	214	204-299	27		1				50%	
8	215	205-300	28						50%	
9	216	206-301	29						50%	
10	217	207-302	30						50%	
11	218	208-303	31						50%	
12	219	209-304	32						50%	
13	220	210-305	33						50%	
14	221	211-306	34						50%	
15	222	212-307	35						50%	
16	223	213-308	36			182			50%	EOT # 182 Tape MKTs
17										
18										
19										
20										
21										
22										
23										
24										
25										

TOTAL SETUPS		TOTAL SWEEPS		TOTAL COVERAGE			TOTAL FIELD TIME		DRIVING TIME		SYSTEM NO.	
SWEEP FREQUENCY			SWEEP PATTERN			SWEEPS PER PATTERN		SWEEP PATTERNS PER SETUP		PATCH PATTERN		
GEOPHONES PER PATCH		NO. OF RECORDING PATCHES		TYPE VIBRATOR		TYPE GEOPHONE		FREQUENCY		STATION INTERVAL		LINE DIR. 1 TO 24
REMARKS							OBSERVER			PARTY MGR.		

OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

Exploration Services
Division
Geosource Inc. 14

CLIENT COCORP	AREA UTAH	STATE UTAH	COUNTY EMERY
CREW NO. 6834			DATE 11-2-82
TERRAIN Dirt Road + Rolling Hills		WEATHER Clear	
LINE NO. 4			

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	FILTER			REMARKS
							LOCUT	60 ~	AMP	
1	933	DUISE	1 - 6 sec			183	OUT	IN		BOT #183 *900 10 sec All ones
2	934/935	EINT	2 - " "							Recorder set AT 285-286
3	936/939	DRD	4 - " "							5 vibs, 100' spacing, 41.25', move up, 1st vib starts +56' past flag 8 sweeps.
4	953/954	SUMTEST	2 - " "							
5	960/961	NRJTEST	2 - " "							
6	932	Similarity	1 - 32 sec	217	5					50%
7	224	Wind Strip	1 - 52 sec							66db
8	225	313	214 - 309	1	5					50%
9	226	314	215 - 310	2						50%
10	227	315	216 - 311	3						50%
11	228	316	217 - 312	4						50%
12	229	317	218 - 313	5						50%
13	230	318	219 - 314	6						50%
14	231	319	220 - 315	7						50%
15	232	320	221 - 316	8						50%
16	233	321	222 - 317	9						50%
17	234	322	223 - 318	10		183				50% FOT #183 Tape MKTs
18	235	323	224 - 319	11	wind strip	184				66db BOT #184 *900 10 sec All ones
19	236	323	224 - 319	11						50%
20	237	324	225 - 320	12						50%
21	238	325	226 - 321	13						50%
22	239	326	227 - 322	14						50%
23	240	327	228 - 323	15						50%
24	241	328	229 - 324	16						50%
25	242	329	230 - 325	17						50%

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8 → 32 Hz / 32 sec		SWEEP PATTERN See Remarks		SWEEPS PER PATTERN 8	
SWEEP PATTERNS PER SETUP 1		PATCH PATTERN X			
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 5-1100's	TYPE GEOPHONE ETLEV22B	FREQUENCY 7.5 Hz	STATION INTERVAL 330'
REMARKS 8 ms Sample Rate / 52 sec Record Length			OBSERVER R. Patten	PARTY MGR M. Richey	LINE DIR. 1 TO 24 W → E

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division**
Geosource Inc. 15

CLIENT COCORP	AREA UTAH	STATE UTAH	COUNTY EMERY	DATE 11-2-82
CREW NO. 6834	TERRAIN Dirt Road + Rolling Hills	WEATHER Clear		LINE NO. 4

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	Missed Sweeps	TAPE RL.NO.	F I L T E R			REMARKS
							LOCUT	60 ~	AMP	
1	243	330	231-326	18	5	184	OUT	IN	50%	
2	244	331	232-327	19	1				50%	
3	245	332	233-328	20					50%	
4	246	333	234-329	21					50%	
5	247	334	235-330	22	1	184			50%	EOT * 184 Tape MKTs
6	248	335	236-331	23	wind strip	185			66db	BOT * 185 #900 10sec All ones
7	249	335	236-331	23	1				50%	
8	250	336	237-332	24					50%	
9	251	337	238-333	25					50%	
10	252	338	239-334	26					50%	
11	253	339	240-335	27					50%	
12	254	340	241-336	28	1				50%	
13	255	341	242-337	29					50%	
14	256	342	243-338	30					50%	
15	257	343	244-339	31	1				50%	
16	258	344	245-340	32					50%	
17	259	345	246-341	33		185			50%	EOT * 185 Tape MKTs.
18										
19										
20										
21										
22										
23										
24										
25										

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY	SWEEP PATTERN	SWEEPS PER PATTERN	SWEEP PATTERNS PER SETUP	PATCH PATTERN	
GEOPHONES PER PATCH	NO. OF RECORDING PATCHES	TYPE VIBRATOR	TYPE GEOPHONE	FREQUENCY	STATION INTERVAL
REMARKS	OBSERVER		PARTY MGR.		

OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

Exploration Services
Division
Geosource Inc. 16

CLIENT COCORP	AREA UTAH	STATE UTAH	COUNTY EMERY	DATE 11-3-82
CREW NO. 6834	TERRAIN Dirt Road	WEATHER Clear	LINE NO. 4	

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	FILTER			REMARKS
							LOCUT	60~	AMP	
1	933	Pulse			Missed Sweeps	186	OUT	IN		BOT * 186 * 900 10sec All ones.
2	934/935	FINT								Recorder Set AT 318-319
3	936/939	D.R.D.								5 vibs, 100' spacing, 41.25' move up, 1st vib starts +56' past flag, 8 sweeps.
4	953/954	Sum Test								
5	960/961	NRT Test								
6	932	Similarity	217	5					50%	Oil well Pumping AT STA * 323+324.
7	260	wind strip	1						72db	
8	261	346	247-342	1	5				50%	
9	262	347	248-343	2					50%	
10	263	348	249-344	3					50%	
11	264	349	250-345	4	1				50%	
12	265	350	251-346	5					50%	
13	266	351	252-347	6					50%	
14	267	352	253-348	7					50%	
15	268	353	254-349	8					50%	
16	269	354	255-350	9					50%	
17	270	355	256-351	10		186			50%	EOT * 186 Tape MKTs.
18	271	356	257-352	11	wind strip	187			66db	BOT * 187 * 900 10sec All ones
19	272	356	257-352	11					50%	
20	273	357	258-353	12					50%	
21	274	358	259-354	13					50%	stacked 1st half.
22	SKIP	359	260-355	14					SKIP	Due to wash out
23	275	360	261-356	15					50%	
24	276	361	262-357	16					50%	
25	277	362	263-358	17					50%	

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8 → 32 Hz / 32 sec		SWEEP PATTERN See remarks	SWEEPS PER PATTERN 8	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN X
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 5-V 1100's	TYPE GEOPHONE ETLE V22B	FREQUENCY 7.5 Hz	STATION INTERVAL 330'
REMARKS 8 ms Sample Rate / 52 sec Record Length			OBSERVER R. Patton	PARTY MGR. M. Richey	LINE DIR. 1 TO 24 W → E

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division**
Geosource Inc.

CLIENT COCORP	AREA UTAH	STATE UTAH	COUNTY EMERY	DATE 11-3-82
CREW NO. 6834	TERRAIN Dirt Road + Rolling Hills	WEATHER Clear		LINE NO. 4

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	missed Sweeps	TAPE RL.NO.	F I L T E R			REMARKS	
							LOCUT	80 ~	AMP		
1	278	363	264-359	18	5		187	out	IN	50%	
2	279	364	265-360	19						50%	
3	280	365	266-361	20						50%	
4	281	366	267-362	21						50%	
5	282	367	268-363	22						50%	
6	283	368	269-364	23		187				50%	EOT * 187 Tape MKTS
7	284	369	270-365	24	wind	strip	188			66%	BOT * 188 * 900 10sec All ones.
8	285	369	270-365	24						50%	
9	286	370	271-366	25						50%	
10	287	371	272-367	26						50%	
11	288	372	273-368	27						50%	
12	289	373	274-369	28						50%	
13	290	374	275-370	29						50%	
14	291	375	276-371	30						50%	
15	292	376	277-372	31						50%	
16	293	377	278-373	32						50%	
17	294	378	279-374	33						50%	
18	295	379	280-375	34		188				50%	EOT * 188 Tape MKTS.
19											
20											
21											
22											
23											
24											
25											

TOTAL SETUPS		TOTAL SWEEPS		TOTAL COVERAGE		TOTAL FIELD TIME		DRIVING TIME		SYSTEM NO.		
SWEEP FREQUENCY			SWEEP PATTERN			SWEEPS PER PATTERN			SWEEP PATTERNS PER SETUP		PATCH PATTERN	
GEOPHONES PER PATCH		NO. OF RECORDING PATCHES		TYPE VIBRATOR		TYPE GEOPHONE		FREQUENCY		STATION INTERVAL		LINE DIR. 1 TO 24
REMARKS						OBSERVER			PARTY MGR.			

OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

Exploration Services
Division
Geosource Inc. 18

CLIENT COCORP	AREA UTAH	STATE UTAH	COUNTY EMERY	DATE 11-4-82
CREW NO. 6834	TERRAIN Dirt Road + Rolling Hills	WEATHER Clear		LINE NO. 4

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	933 Pulse	1 - 6 sec			missed Sweeps	189	OUT	IN		BOT # 189 * 900 10 sec All ones.
2	934/935 EINT	2 - " "								Recorder set AT 352-353.
3	936/939 DRD	4 - " "								5 vibs 100' Spacing. 41.25' move up, 1st vib starts +56' past Flag, 8 Sweeps.
4	953/954 Sum TEST	2 - " "								
5	960/961 NRJ TEST	2 - " "								
6	932 Simplicity	1 - 32 sec	217	5					50%	Oil well Pumping Between STA # 323 + 324.
7	296 Wind Strip	1 - 52 sec	1						72Db	
8	297 380	281 - 376	1	5					50%	
9	298 381	282 - 377	2						50%	
10	299 382	283 - 378	3		1				50%	
11	300 383	284 - 379	4						50%	
12	301 384	285 - 380	5						50%	
13	302 385	286 - 381	6						50%	
14	303 386	287 - 382	7						50%	
15	304 387	288 - 383	8						50%	Offset 114' North
16	305 388	289 - 384	9		1	189			50%	Offset 300' North EOT # 189 Tape MKTs
17	Skip 389	290 - 385	10						50%	SKIP From 389 - 393 Due to Cross Country.
18	306 394	295 - 390	15		wind strip	190			52Db	BOT # 190 * 900 10 sec All ones
19	307 394	295 - 390	15						50%	
20	308 395	296 - 391	16						50%	
21	309 396	297 - 392	17						50%	
22	310 397	298 - 393	18						50%	
23	311 398	299 - 394	19						50%	
24	312 399	300 - 395	20						50%	
25	313 400	301 - 396	21						50%	

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8 → 32 Hz / 32 sec	SWEEP PATTERN See Remarks	SWEEPS PER PATTERN 8	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN x	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 5 - Y 1100's	TYPE GEOPHONE E7L E122B	FREQUENCY 7.5 Hz	STATION INTERVAL 330'
REMARKS 8 ms Sample Rate / 52 sec Record Length		OBSERVER R. Patten	PARTY MGR. M. Pichey		LINE DIR. 1 TO 24 W → E

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division**
Geosource Inc.

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CLIENT COCORP	AREA UTAH	STATE UTAH	COUNTY EMERY	DATE 11-4-82
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CREW NO. 6834	TERRAIN Dirt Road + Rolling Hills	WEATHER Clear	LINE NO. 4
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REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	Missed Sweeps	TAPE RL.NO.	F I L T E R			REMARKS
							LOCUT	80~	AMP	
1	314	401	302-397	22	5	190	OUT	IN	50%	
2	315	402	303-398	23					50%	
3	316	403	304-399	24					50%	
4	317	404	305-400	25					50%	
5	318	405	306-401	26		190			50%	EOT *190 Tape MKTs.
6	319	406	307-402	27	wind strip	191			72db	BOT *191 *900 10 sec All ones.
7	320	406	307-402	27					50%	
8	321	407	308-403	28					50%	
9	322	408	309-404	29					50%	
10	323	409	310-405	30					50%	
11	324	410	311-406	31					50%	
12	325	411	312-407	32					50%	
13	326	412	313-408	33	1				50%	
14	327	413	314-409	34	1				50%	
15	328	414	315-410	35					50%	
16	329	415	316-411	36					50%	
17	330	416	317-412	37	1				50%	
18	331	417	318-413	38		191			50%	EOT *191 Tape MKTs.
19	332	418	319-414	39	wind strip	192			72db	BOT *192 *900 10 sec All ones
20	333	418	319-414	39					50%	
21	334	419	320-415	40	1				50%	
22	335	420	321-416	41					50%	
23	336	421	322-417	42					50%	
24	337	422	323-418	43					50%	
25	338	423	324-419	44					50%	

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY	SWEEP PATTERN	SWEEPS PER PATTERN	SWEEP PATTERNS PER SETUP	PATCH PATTERN	
GEOPHONES PER PATCH	NO. OF RECORDING PATCHES	TYPE VIBRATOR	TYPE GEOPHONE	FREQUENCY	STATION INTERVAL
REMARKS	OBSERVER		PARTY MGR.		

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division**
Geosource Inc. 20

CLIENT COCORP	AREA UTAH	STATE UTAH	COUNTY EMERY
CREW NO. 6834	TERRAIN Dirt Road + Rolling Hills	WEATHER Clear	DATE 11-5-82
LINE NO. 4			

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	F L T E R		REMARKS
							LOCUT	60 ~ AMP	
1	933	Pulse			Missed Sweeps	192	OUT	IN	Recorder set AT 397-398
2	934/935	FINIT							
3	936/939	DRD							5 vibs 100' spacing, 41.25' move up, 1st vib starts
4	953/954	Sum TEST							+56' past Flag. 8 sweeps
5	960/961	NRJ TEST							
6	932	Simplaxity	217	5					50% DYNAMITE CREW IN AREA.
7	339	Windstrip	240						72db
8	340	424	325-420	240	5				50%
9	341	425	326-421	1		192			50% EOT * 192 Tape MKTS
10	342	426	327-422	2	wind strip	193			72db BOT * 193 * 900 10 sec All ones.
11	343	426	327-422	2					50%
12	344	427	328-423	3		1			50%
13	345	428	329-424	4					50%
14	346	429	330-425	5					50%
15	347	430	331-426	6					50%
16	348	431	332-427	7					50%
17	349	432	333-428	8					50%
18	350	433	334-429	9					50%
19	351	434	335-430	10		1			50%
20	352	435	336-431	11					50% 4 vibs 100' spacing 41.25' move up, 1st vib starts
21	353	436	337-432	12					50% +6' past Flag. 8 sweeps.
22	354	437	338-433	13		193			50% EOT * 193 Tape MKTS
23	355	438	339-434	14	wind strip	194			72db BOT * 194 * 900 10 sec All ones
24	356	438	339-434	14	4				50% Vib * 25874 Down, FRONT Engine Died.
25	357	439	340-435	15					50%

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8 → 32Hz / 32sec		SWEEP PATTERN See Remarks.		SWEEPS PER PATTERN 8	
SWEEP PATTERNS PER SETUP 1		PATCH PATTERN x			
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 5-Y 1100's	TYPE GEOPHONE ETLEU22B	FREQUENCY 7.5Hz	STATION INTERVAL 330'
REMARKS 8 ms Sample Rate / 52 sec Record Length			OBSERVER K. Patten	PARTY MGR. M. Richey	LINE DIR. 1 TO 24 W → E

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division**
Geosource Inc. 21

CLIENT COCORP		AREA UTAH		STATE UTAH		COUNTY EMERY		DATE 11-5-82			
CREW NO. 6834		TERRAIN Dirt Road + Rolling Hills.		WEATHER Partly Cloudy		LINE NO. 4					
REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	Missed Sweeps	TAPE RL.NO.	F I L T E R			RE MARKS	
							LOCUT	80 ~	AMP		
1	358	440	341-436	16	4	194	OUT	IN	50%		
2	359	441	342-437	17	5				50%	Vib * 25824 BACK ON Line.	
3	360	442	343-438	18					50%		
4	361	443	344-439	19	1				50%		
5	362	444	345-440	20					50%		
6	363	445	346-441	21					50%		
7	364	446	347-442	22					50%		
8	365	447	348-443	23	1				50%		
9	366	448	349-444	24					50%		
10	367	449	350-445	25		194			50%	EOT * 194 Tape MKTs.	
11	368	450	351-446	26	wind strip	195			72db	BOT * 195 #900 10 sec ALL ONES.	
12	369	450	351-446	26					50%		
13	370	451	352-447	27					50%		
14	371	452	353-448	28					50%		
15	372	453	354-449	29					50%		
16	373	454	355-450	30					50%		
17	374	455	356-451	31	1				50%		
18	375	456	357-452	32	1				50%		
19											
20											
21											
22											
23											
24											
25											
TOTAL SETUPS		TOTAL SWEEPS		TOTAL COVERAGE		TOTAL FIELD TIME		DRIVING TIME		SYSTEM NO.	
SWEEP FREQUENCY		SWEEP PATTERN		SWEEPS PER PATTERN		SWEEP PATTERNS PER SETUP		PATCH PATTERN			
GEOPHONES PER PATCH		NO. OF RECORDING PATCHES		TYPE VIBRATOR		TYPE GEOPHONE		FREQUENCY		STATION INTERVAL	LINE DIR. 1 TO 24
REMARKS						OBSERVER			PARTY MGR.		

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division**
Geosource Inc. 23

CLIENT COCORP	AREA UTAh	STATE UTAh	COUNTY EMERY	DATE 11-6-82
CREW NO. 6834	TERRAIN Dirt Road + Rolling Hills	WEATHER Clear		LINE NO. 4

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	Missed Sweeps	TAPE RL.NO.	F I L T E R			REMARKS
							LOCUT	60 ~	AMP	
1	395 474	375-470	18	5	3	197	out	IN	50%	All vibs missed 3 sweeps on this VP.
2	396 475	376-471	19						50%	
3	397 476	377-472	20						50%	
4	398 477	378-473	21						50%	
5	399 478	379-474	22						50%	
6	400 479	380-475	23						50%	
7	401 480	381-476	24			197			50%	EOT #197 Tape MKTs
8	402 481	382-477	25		wind strip				72db	BOT #198 *900 10sec All ones
9	403 481	382-477	25						50%	
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.		
SWEEP FREQUENCY			SWEEP PATTERN		SWEEPS PER PATTERN		SWEEP PATTERNS PER SETUP		PATCH PATTERN			
GEOPHONES PER PATCH		NO. OF RECORDING PATCHES		TYPE VIBRATOR		TYPE GEOPHONE		FREQUENCY		STATION INTERVAL		LINE DIR. 1 TO 24
REMARKS						OBSERVER			PARTY MGR.			

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division
Geosource Inc.** 24

CLIENT COCORP	AREA UTAH	STATE UTAH	COUNTY EMERY	DATE 11-8-82
CREW NO. 6834	TERRAIN Dirt Road + Rolling Hills	WEATHER WET, cloudy, light RAIN	LINE NO. 4	

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	933 pulse	1 - 6 sec				198	OUT	IN		Recorder set at 454-455
2	934/935 EINT	2 - " "								
3	936/939 DRD	4 - " "								5 Vib 100' spacing 41.25 move up. 1st Vib
4	953/954 SumTEST	2 - " "								56' PAST Flag. 8 Sweep.
5	960/961 NRJ test	2 - " "								
6	932 Similarity	1 - 32 sec	217	5						50%
7	404 Wind strip	1 - 52 sec	1							66db
8	405 482	383 - 478	1	5						50%
9	406 483	384 - 479	2							50%
10	407 484	385 - 480	3							50%
11	408 485	386 - 481	4							50%
12	409 486	387 - 482	5							50%
13	410 487	388 - 483	6							50%
14	411 488	389 - 484	7							50%
15	412 489	390 - 485	8			198				50%
16	413 490	391 - 486	9	wind strip		199				72db
17	414 490	391 - 486	9							50%
18	415 491	392 - 487	10							50%
19	416 492	393 - 488	11							50%
20	417 493	394 - 489	12							50%
21	418 494	395 - 490	13							50%
22										
23										
24										
25										

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8 - 7.32Hz / 32 sec	SWEEP PATTERN See Remarks	SWEEPS PER PATTERN 8	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN 	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 5-V 1100's	TYPE GEOPHONE ETL EV 22B	FREQUENCY 7.5Hz	STATION INTERVAL 330'
REMARKS 8 ms Sample Rate / 52 sec Record Length	OBSERVER R. Patten	PARTY MGR. M. Pichey	LINE DIR. 1 TO 24 W → E		

OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

Exploration Services
Division
Geosource Inc. 25

CLIENT COCORP	AREA UTAH	STATE UTAH	COUNTY EMERY	DATE 11-12-82
CREW NO. 6834	TERRAIN Dirt Road + Rolling Hills	WEATHER Clear + wet		LINE NO. 4

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	F I L T E R			REMARKS
							LOCUT	80 ~	AMP	
1	933	Pulse	1-6 sec			199	OUT	IN		Recorder SET AT 467-468
2	934/935	EINT	2-11 "							
3	936/937	D.R.D.	4-11 "							5 Vibs 100' spacing 41.25 MOVE UP.
4	938/939	Sum TEST	2-11 "							1st Vib 56' Past FLAG. 8 sweep.
5	960/961	NR TEST	2-11 "							
6	932	Similarity	1-32 sec	1	5					50%
7	419	wind strip	1-52 sec	1						66db
8	420	495	396-491	1	5					50%
9	421	496	397-492	2						50%
10	422	497	398-493	3						50%
11	423	498	399-494	4		199				50% E.O.+ #199, TAPE MKTS
12	424	499	400-495	5		200				66db B.O.+ #200, 900 10sec ALL ONES-
13	425	499	400-495	5						50%
14	426	500	401-496	6						50%
15	427	501	402-497	7						50%
16	428	502	403-498	8						50%
17	429	503	404-499	9						50%
18	430	504	405-500	10						50%
19	431	505	406-501	11						50%
20	432	506	407-502	12						50%
21	433	507	408-503	13						50%
22	434	508	409-504	14						50%
23	435	509	410-505	15						50%
24	436	510	411-506	16		200				50% E.O.+ #200, TAPE MKTS
25	437	511	412-507	17		201				50% B.O.+ #201, 900 10sec ALL ONES.

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8-32Hz/32sec		SWEEP PATTERN See Remarks		SWEEPS PER PATTERN 8	
SWEEP PATTERNS PER SETUP 1		PATCH PATTERN 		REMARKS 8ms Sample RATE/52sec Record Length	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 8-1100'	TYPE GEOPHONE ETELV22B	FREQUENCY 7.5Hz	STATION INTERVAL 330'
OBSERVER R. PATTON, M. Richey			PARTY MGR. L. DAVIS		

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division**
Geosource Inc.

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CLIENT <i>COCORP</i>	AREA <i>UTAH</i>	STATE <i>UTAH</i>	COUNTY <i>EMERY</i>	DATE <i>11-12-82</i>
CREW NO. <i>6834</i>	TERRAIN <i>Dirt Road</i>	WEATHER <i>clear</i>		LINE NO. <i>#4</i>

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	438	511	412-507	17	5	<i>missed sweep</i> 201	<i>OUT</i>	<i>IN</i>	50%	
2	439	512	413-508	18					50%	
3	440	513	414-509	19					50%	
4	441	514	415-510	20					50%	
5	442	515	416-511	21					50%	
6	443	516	417-512	22					50%	
7	444	517	418-513	23					50%	
8	445	518	419-514	24					50%	
9	446	519	420-515	25					50%	
10	447	520	421-516	26					50%	
11	448	521	422-517	27					50%	
12	449	522	423-518	28		201			50%	<i>E.O.T. #201, TAPE MKTS-</i>
13	450	523	424-519	29	<i>wind strip</i>	202			66%	<i>B.O.T #202, 90010sec 1410NES</i>
14	451	523	424-519	29					50%	
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	SWEEP PATTERN	SWEEPS PER PATTERN	SWEEP PATTERNS PER SETUP	PATCH PATTERN	
GEOPHONES PER PATCH	NO. OF RECORDING PATCHES	TYPE VIBRATOR	TYPE GEOPHONE	FREQUENCY	STATION INTERVAL
REMARKS			OBSERVER	PARTY MGR.	

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division**
Geosource Inc. 27

CLIENT COCORP	AREA UTAH	STATE UTAH	COUNTY EMERY	DATE 11-13-82
CREW NO. 6834	TERRAIN Dirt Road + Rolling Hills	WEATHER Clear		LINE NO. 4

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	933 Pulse	1 - 6 sec			Missed Sweeps	202	OUT	IN		Recorder SET AT 496-497
2	934/935 FINT	2 - " "								
3	936/939 D.R.D.	4 - " "								5 Vib 100' SPACING 41.25 MOVE UP. 1st Vib
4	953/954 SUM TEST	2 - " "								56' PAST FLAG. 8 SWEEP.
5	960/961 NRS TEST	2 - " "								
6	932 Similarity	1 - 32sec	1	5						50%
7	452 Wind strip	1 - 52sec	1							66%
8	453 524	425-520	1	5						50%
9	454 525	426-521	2							50%
10	455 526	427-522	3							50%
11	456 527	428-523	4							50%
12	457 528	429-524	5							50%
13	458 529	430-525	6							50%
14	459 530	431-526	7							50%
15	460 531	432-527	8			202				50% E.O.T. #202, TAPE MKTS
16	461 532	433-528	9	WIND strip		203				66% B.O.T. #203, 900 10SEC RAILONES.
17	462 532	433-528	9							50%
18	463 533	434-529	10							50%
19	464 534	435-530	11							50%
20	465 535	436-531	12							50%
21	466 536	437-532	13							50%
22	467 537	438-533	14							50% WINDS ARE PICKING UP.
23	468 538	439-534	15							50%
24	469 539	440-535	16							50%
25	470 540	441-536	17							50%

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8 → 32 Hz / 32 sec	SWEEP PATTERN see Remarks	SWEEPS PER PATTERN 8	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN x	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 5-Y 1100's	TYPE GEOPHONE EFL EV 22B	FREQUENCY 7.5 Hz	STATION INTERVAL 330'
REMARKS 8 ms Sample Rate / 52 sec Record Length	OBSERVER R. Patton	PARTY MGR. M. Richey	LINE DIR. 1 TO 24 W → E		

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division**
Geosource Inc. 28

CLIENT <i>COCORP</i>	AREA <i>UTAH</i>	STATE <i>UTAH</i>	COUNTY <i>EMERY</i>	DATE <i>11-13-82</i>
CREW NO. <i>6834</i>	TERRAIN <i>Dirt Road</i>	WEATHER <i>Clear</i>		LINE NO. <i>4</i>

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	471	541	442-537	18	5	<i>MISSING SWEEP</i> 203	OUT	IN	50%	
2	472	542	443-538	19					50%	
3	473	543	444-539	20		203			50%	<i>E.D.T. #203, TAPE MKTS.</i>
4	474	544	445-540	21	<i>wind strip</i>	204			66%	<i>B.D.T. #204, 900 10sec ALLOWES.</i>
5	475	544	445-540	21					50%	
6	476	545	446-541	22					50%	
7	477	546	447-542	23					50%	
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.
SWEEP FREQUENCY			SWEEP PATTERN		SWEEPS PER PATTERN		SWEEP PATTERNS PER SETUP		PATCH PATTERN		
GEOPHONES PER PATCH		NO. OF RECORDING PATCHES		TYPE VIBRATOR		TYPE GEOPHONE		FREQUENCY		STATION INTERVAL	LINE DIR. 1 TO 24
REMARKS							OBSERVER			PARTY MGR.	

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division**
Geosource Inc. 30

CLIENT <i>COCORP</i>	AREA <i>UTAH</i>	STATE <i>UTAH</i>	COUNTY <i>EMERY</i>	DATE <i>11-14-82</i>
CREW NO. <i>6834</i>	TERRAIN <i>Dirt Road</i>	WEATHER <i>Clear</i>		LINE NO. <i>#4</i>

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	497	564	465-560	18	5	205 205	OUT	IN	50%	E.O.T # 205, TAPE MKTS
2	498	565	466-561	19		206			60%	B.O.T # 206, 900 10sec ALLONES.
3	499	565	466-561	19					50%	
4	500	566	467-562	20					50%	
5	501	567	468-563	21					50%	
6	502	568	469-564	22					50%	
7	503	569	470-565	23					50%	
8	504	570	471-566	24					50%	
9	505	571	472-567	25					50%	
10	506	572	473-568	26					50%	
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.	
SWEEP FREQUENCY			SWEEP PATTERN		SWEEPS PER PATTERN		SWEEP PATTERNS PER SETUP		PATCH PATTERN		
GEOPHONES PER PATCH		NO. OF RECORDING PATCHES		TYPE VIBRATOR		TYPE GEOPHONE		FREQUENCY		STATION INTERVAL	
REMARKS		OBSERVER				PARTY MGR.					

OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

Exploration Services
Division
Geosource Inc. 31

CLIENT COCORP	AREA UTAH	STATE UTAH	COUNTY EMERY	DATE 11-15-82
CREW NO. 6834	TERRAIN Dirt Road	WEATHER clear	LINE NO. #4	

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	933	PULSE				206	OUT	IN		Recorder set at 545-546
2	534	EINT								
3	536	D.R.D								5 VibS 100' spacing 41.25 more up. 1st Vib
4	538	SUM test								56' Past FLAG. 8 SWEEP.
5	540	N.R.S. test								NOTE: ANOTHER CREW IN AREA, DYNAMITE.
6	932	similarity	1	5		206			50%	E.O.T. #206, TAPE MKTS
7	507	WINDSTRIP	1			207			66%	B.O.T. #207, 900 10sec ALL ONES.
8	508	573		5					50%	
9	509	574	2						50%	
10	510	575	3						50%	
11	511	576	4						50%	
12	512	577	5						50%	
13	513	578	6						50%	
14	514	579	7						50%	
15	515	580	8						50%	
16	516	581	9						50%	
17	517	582	10						50%	
18	518	583	11						50%	
19	519	584	12			207			50%	E.O.T. #207, TAPE MKTS
20	520	585	13		WINDSTRIP	208			66%	B.O.T. #208, 900 10sec ALL ONES.
21	521	585	13						50%	
22	522	586	14						50%	
23	523	587	15		1				50%	
24	524	588	16						50%	
25	525	589	17						50%	

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8 → 32Hz/32sec		SWEEP PATTERN see Remarks		SWEEPS PER PATTERN 8	
SWEEP PATTERNS PER SETUP 1		PATCH PATTERN x			
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 5-Y1100's	TYPE GEOPHONE ETELV22R	FREQUENCY 7.5HZ	STATION INTERVAL 330'
REMARKS 8ms Sample RATE / 52sec Record Length			OBSERVER R. PATTON, M. Richey	PARTY MGR. L. DAVIS	

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division**
Geosource Inc. 32

CLIENT COCORP	AREA UTAH	STATE UTAH	COUNTY EMERY	DATE 11-15-82
CREW NO. 6834	TERRAIN Dirt Road	WEATHER clear		LINE NO. 4

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	526	590	491-586	18	3	208	208	OUT	IN	50%	
2	527	591	492-587	19						50%	
3	528	592	493-588	20						50%	
4	529	593	494-589	21						50%	
5	530	594	495-590	22						50%	
6	531	595	496-591	23						50%	
7	532	596	497-592	24		208				50%	E.O.T #208, TAPE MKTS.
8	533	597	498-593	25	WINDSTRIPE	209				66%	B.O.T #209, 900 10SEC ALL ONES.
9	534	597	498-593	25						50%	
10	535	598	499-594	26						50%	
11	536	599	500-595	27						50%	
12	537	600	501-596	28	1					50%	
13	538	601	502-597	29						50%	
14	539	602	503-598	30						50%	
15	540	603	504-599	31						50%	
16	541	604	505-600	32						50%	
17	542	605	506-601	33						50%	
18	543	606	507-602	34						50%	
19	544	607	508-603	35		209				50%	E.O.T #209, TAPE MKTS.
20											
21											
22											
23											
24											
25											

TOTAL SETUPS		TOTAL SWEEPS		TOTAL COVERAGE		TOTAL FIELD TIME		DRIVING TIME		SYSTEM NO.		
SWEEP FREQUENCY			SWEEP PATTERN			SWEEPS PER PATTERN			SWEEP PATTERNS PER SETUP		PATCH PATTERN	
GEOPHONES PER PATCH		NO. OF RECORDING PATCHES		TYPE VIBRATOR		TYPE GEOPHONE		FREQUENCY		STATION INTERVAL		LINE DIR. 1 TO 24
REMARKS						OBSERVER			PARTY MGR.			

OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

Exploration Services
Division
Geosource Inc. 33

CLIENT COCORP	AREA UTAH	STATE UTAH	COUNTY EMERY	DATE 11-16-82
CREW NO. 6834	TERRAIN Dirt Road + Rolling Hills	WEATHER Clear		LINE NO. #4

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	933 PULSE	1-6sec			missed sweep	210	OUT	IN		Recorder set at 580-581
2	934 EINT	2- " "								B.O. #210, 900 10sec ALL ONES.
3	936 D.R.D	4 " "								5 Vibs 100' spacing, 41.25 MOVE UP. 1st Vib +56' Past Flag. 8 sweep.
4	953 SUM test	2- " "								DYNAMITE Crew IN AREA.
5	961 N.R.J. test	2- " "								
6	932 SIMILARITY	1-32sec	1	5						50%
7	545 WIND strip	1-52sec	1							72db
8	546 608	509-604	1	5						50%
9	547 609	510-605	2							50%
10	548 610	511-606	3							50%
11	549 611	512-607	4							50%
12	550 612	513-608	5							50%
13	551 613	514-609	6							50%
14	552 614	515-610	7							50%
15	553 615	516-611	8							50%
16	554 616	517-612	9							50%
17	555 617	518-613	10			210				50% EOT # 210 Tape MKTs
18	556 618	519-614	11	wind strip		211				72db BOT # 211 #900 10 sec ALL ONES
19	557 618	519-614	11							50%
20	558 619	520-615	12							50%
21	559 620	521-616	13							50%
22	560 621	522-617	14							50%
23	561 622	523-618	15							50%
24	562 623	524-619	16							50%
25	563 624	525-620	17							50%

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8-32Hz/32sec		SWEEP PATTERN see REMARKS		SWEEPS PER PATTERN 8	
SWEEP PATTERNS PER SETUP 1		PATCH PATTERN / X /			
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 5-Y1100's	TYPE GEOPHONE ETELV22B	FREQUENCY 7.5Hz	STATION INTERVAL 330'
REMARKS 8ms Sample RATE/52sec Record Len			OBSERVER R. PATTON, M. Richey	PARTY MGR. L. DAVIS	

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division**
Geosource Inc. 34

CLIENT COCORP	AREA UTAH	STATE UTAH	COUNTY EMERY	DATE 11-16-82
CREW NO. 6834	TERRAIN Dirt Road + Rolling Hills	WEATHER Clear		LINE NO. 4

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	missed Sweeps	TAPE RL.NO.	F I L T E R			REMARKS	
							LOCUT	60 ~	AMP		
1	564	625	526-621	18	5		211	OUT	IN	50%	
2	565	626	527-622	19						50%	
3	566	627	528-623	20						50%	
4	567	628	529-624	21						50%	
5	568	629	530-625	22		211				50%	Foot # 211 Tape MKTs.
6	569	630	531-626	23	wind strep	212				72db	Bot # 212 * 900 10 sec All ones.
7	570	630	531-626	23						50%	
8	571	631	532-627	24						50%	
9	572	632	533-628	25						50%	
10	573	633	534-629	26						50%	
11	574	634	535-630	27						50%	
12	575	635	536-631	28						50%	
13	576	636	537-632	29						50%	
14	577	637	538-633	30						50%	
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			SWEEP PATTERN		SWEEPS PER PATTERN		SWEEP PATTERNS PER SETUP		PATCH PATTERN		
GEOPHONES PER PATCH		NO. OF RECORDING PATCHES		TYPE VIBRATOR		TYPE GEOPHONE		FREQUENCY		STATION INTERVAL	
REMARKS		OBSERVER				PARTY MGR.					

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division**
Geosource Inc. 36

CLIENT COCORP	AREA UTAH	STATE UTAH	COUNTY Emery
CREW NO. 6834			DATE 11-17-82
TERRAIN Dirt Road + Rolling Hills		WEATHER Clear	LINE NO. 4

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	Missed Sweeps	TAPE RL.NO.	F I L T E R			REMARKS	
							LOCUT	60 ~	AMP		
1	596	660	561-656	27	5		214	OUT	IN	70%	
2	597	661	562-657	28						70%	
3	598	662	563-658	29						70%	
4	599	663	564-659	30						70%	
5	600	664	565-660	31						70%	
6	601	665	566-661	32						70%	
7	602	666	567-662	33						70%	
8	603	667	568-663	34		214				70%	EOT # 214 Tape MKTs
9	604	668	569-664	35	Wind Strip	215				72db	BOT # 215 #900 10 sec All ones
10	605	668	569-664	35						70%	
11	606	669	570-665	36						70%	
12	607	670	571-666	37	1					70%	
13	608	671	572-667	38						70%	
14	609	672	573-668	39						70%	
15	SKIP	673	574-669	40						SKIP	Due to cross country, 673-675.
16	610	676	577-672	43	1					70%	Offset 153' North
17	SKIP	677	578-673	44						SKIP	Due to loose rocks on side of mountain.
18	611	678	579-674	45						70%	Stacked last half, Vib back on line.
19	612	679	580-675	46						70%	
20	613	680	581-676	47						70%	
21	614	681	582-677	48						70%	
22	615	682	583-678	49		215				70%	EOT # 215 Tape MKTs.
23											
24											
25											

TOTAL SETUPS		TOTAL SWEEPS		TOTAL COVERAGE		TOTAL FIELD TIME		DRIVING TIME		SYSTEM NO.			
SWEEP FREQUENCY			SWEEP PATTERN			SWEEPS PER PATTERN			SWEEP PATTERNS PER SETUP		PATCH PATTERN		
GEOPHONES PER PATCH		NO. OF RECORDING PATCHES		TYPE VIBRATOR		TYPE GEOPHONE		FREQUENCY		STATION INTERVAL		LINE DIR. 1 TO 24	
REMARKS						OBSERVER			PARTY MGR.				

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division**
Geosource Inc. 37

CLIENT COCORP	AREA UTAH	STATE UTAH	COUNTY Emery	DATE 11-18-82
CREW NO. 6834	TERRAIN Dirt Road + Rolling Hills	WEATHER Clear		LINE NO. 4

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	missed Sweeps	TAPE RL.NO.	F I L T E R			REMARKS
							LOCUT	80 ~	AMP	
1	933 Pulse	1 - 6 sec				216	OUT	IN		BOT * 216 #900 10 sec All ones
2	934/935 FINT	2 - 11 "								Recorder set at 655-656
3	936/939 DRD	4 - 11 "								5 Vibs 100' spacing 41.25 MOVE UP. 1st Vid
4	953/954 Sum TEST	2 - 11 "								56' Past Flag. 8 sweep.
5	960/961 NRJ TEST	2 - 11 "								DYNAMITE CREW IN AREA.
6	932 Similarity	1 - 32 sec	1	5						50%
7	616 Wind strip	1 - 52 sec	1							66%
8	617 683	584 - 679	1	5						70%
9	618 684	585 - 680	2							70%
10	619 685	586 - 681	3							70%
11	620 686	587 - 682	4							70%
12	621 687	588 - 683	5							70%
13	622 688	589 - 684	6							70%
14	623 689	590 - 685	7							70%
15	624 690	591 - 686	8							70%
16	625 691	592 - 687	9							70%
17	626 692	593 - 688	10			216				70% E.O.T. #216, TAPE MKTS
18	627 693	594 - 689	11		WIND strip	217				66% B.O.T. #217, 900 10sec ALL ONES.
19	628 693	594 - 689	11							70%
20	629 694	595 - 690	12							70%
21	630 695	596 - 691	13							70%
22	631 696	597 - 692	14							70%
23	632 697	598 - 693	15							70%
24	633 698	599 - 694	16							70%
25	634 699	600 - 695	17							70%

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8 → 32Hz / 32sec		SWEEP PATTERN See Remarks		SWEEPS PER PATTERN 8	
SWEEP PATTERNS PER SETUP 1		PATCH PATTERN X			
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 5-Y 1100's	TYPE GEOPHONE ETL E122B 7.5Hz	FREQUENCY 330'	STATION INTERVAL 1 TO 24 W → E
REMARKS 8ms Sample Rate / 52sec Record Length			OBSERVER R. Patten	PARTY MGR M. Richey	

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division**
Geosource Inc. 38

CLIENT COCORP	AREA UTAH	STATE UTAH	COUNTY EMERY	DATE 11-18-82
CREW NO. 6834	TERRAIN Dirt Road	WEATHER clear		LINE NO. # 4

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	missed Sweep	TAPE RL.NO.	F I L T E R			REMARKS
							LOCUT	60 ~	AMP	
1	635	700	601-696	18	5	217	OUT	IN	70%	
2	636	701	602-697	19					70%	
3	637	702	603-698	20					70%	
4	638	703	604-699	21					70%	
5	639	704	605-700	22		217			70%	E.O.T.#217, TAPE MKTS
6	640	705	606-701	23	WIND strip	218			66db	B.O.T.#218, 900 10sec ALL ONES.
7	641	705	606-701	23					70%	
8	642	706	607-702	24					70%	
9	643	707	608-703	25					70%	
10	644	708	609-704	26					70%	
11	645	709	610-705	27					70%	
12	646	710	611-706	28					70%	
13	647	711	612-707	29					70%	
14	648	712	613-708	30					70%	
15	649	713	614-709	31					70%	
16	650	714	615-710	32					70%	
17	651	715	616-711	33					70%	
18	652	716	617-712	34		218			70%	E.O.T.#218, TAPE MKTS
19	653	717	618-713	35	WIND strip	219			66db	B.O.T.#219, 900 10sec ALL ONES.
20	654	717	618-713	35					70%	
21	655	718	619-714	36					70%	
22	656	719	620-715	37					70%	
23	SKIP	720	621-716	38					SKIP	From STA #720 - Due to Loose Rock on Side of Mountain.
24										
25										

TOTAL SETUPS		TOTAL SWEEPS		TOTAL COVERAGE		TOTAL FIELD TIME		DRIVING TIME		SYSTEM NO.			
SWEEP FREQUENCY			SWEEP PATTERN			SWEEPS PER PATTERN			SWEEP PATTERNS PER SETUP		PATCH PATTERN		
GEOPHONES PER PATCH		NO. OF RECORDING PATCHES		TYPE VIBRATOR		TYPE GEOPHONE		FREQUENCY		STATION INTERVAL		LINE DIR. 1 TO 24	
REMARKS						OBSERVER			PARTY MGR.				

OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

Exploration Services
Division
Geosource Inc. 39

CLIENT COCORP	AREA UTAH	STATE UTAH	COUNTY EMERY	DATE 11-22-82
CREW NO. 6834	TERRAIN Dirt Road	WEATHER cloudy		LINE NO. #4

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	933 PULSE	1-6sec				219	OUT	IN		Recorder SET AT 694-695
2	934 EINT	2 " "								
3	935 D.R.D	4 " "								5 Vibs 100' SPACING 41.25 MOVE UP. 1st Vib
4	936 SUMTEST	2 " "								+56 PAST FLAG. 8 SWEEP
5	937 N.R.J. test	2 " "								
6	932 SIMILARITY	1-32sec	1	5						50%
7	657 WINDstrip	1-52sec	1							66%
8	658 722	623-718	1	5						70% Vibs IN LOW DRIVE 20%
9	659 SKIP 723	624-719	2							70% SKIP From STA# 723-738 DUE TO LOOSE ROCKS ON SIDE
10	659 739	640-735	18							70% OF MOUNTAIN.
11	660 740	641-736	19							70%
12	661 741	642-737	20							70%
13	662 742	643-738	21			219				70% E.O.+ #219, TAPE MKTS
14	663 743	644-739	240			220				66% B.O.+ #220, 900 10sec ALL ONES.
15	664 743	644-739	240							70% Recorder move UP AT STA# 716-717.
16	665 744	645-740	1							70%
17	666 745	646-741	2							70%
18	667 746	647-742	3							70%
19	668 747	648-743	4							70%
20	669 748	649-744	5							70%
21	670 749	650-745	6							70%
22	671 750	651-746	7							70%
23	672 751	652-747	8							70%
24	673 752	653-748	9							70%
25	674 753	654-749	10							70%

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8=32Hz/52sec		SWEEP PATTERN see Remarks		SWEEPS PER PATTERN 8	
SWEEP PATTERNS PER SETUP 1		PATCH PATTERN X 			
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 5-Y1100's	TYPE GEOPHONE ETL DV 22R	FREQUENCY 7.5HZ	STATION INTERVAL 330'
REMARKS 8ms sample rate/52sec Record Length.			OBSERVER R. PATTON, M. RICHEY	PARTY MGR. L. DAVIS	

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORD**

**Exploration Services
Division**
Geosource Inc. 40

CLIENT <i>COCORP</i>	AREA <i>UTAH</i>	STATE <i>UTAH</i>	COUNTY <i>EMERY</i>
CREW NO. <i>6834</i>	TERRAIN <i>Dirt Road</i>	WEATHER <i>cloudy - light snow.</i>	DATE <i>11-22-82</i>
			LINE NO. <i>#4</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	
1	754	655-750	11	5	135dB	220	OUT	IN	50%	E.O.T #220, TAPE MKTS
2	755	656-751	12		wingsrip	221			60%	B.O.T #221, 900 LOSSES ALL ONES.
3	755	656-751	12						50%	
4	756	657-752	13						50%	
5	757	658-753	14						50%	
6	758	659-754	15						50%	
7	759	660-755	16						50%	
8	760	661-756	17						50%	
9	761	662-757	18			221			50%	E.O.T #221, TAPE MKTS, E.O.L #4
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.		
SWEEP FREQUENCY			SWEEP PATTERN			SWEEPS PER PATTERN			SWEEP PATTERNS PER SETUP		PATCH PATTERN	
GEOPHONES PER PATCH		NO. OF RECORDING PATCHES		TYPE VIBRATOR		TYPE GEOPHONE		FREQUENCY		STATION INTERVAL		
REMARKS						OBSERVER			PARTY MGR.			