

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

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**Exploration Services
Division
Geosource Inc.**

CLIENT COCORP	AREA UTAH	STATE UTAH	COUNTY MILLARD	DATE 11-23-82
CREW NO. 6834	TERRAIN Dirt Road	WEATHER Clear	LINE NO. #5	

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	FILTER			REMARKS
							LOCUT	60~	AMP	
1	933 PULSE	1-6sec				223	OUT	IN		Recorder SET AT 72-73
2	934 FIN+	2-11"								B.D.#223, 900 10sec ALL ONES.
3	936 D.R.D	4-11"								STA# 55-56 CROSSING HI-WAY.
4	935 SUMtest	2-11"								5 Vibs 100' spacing 41.25 move up. 1st Vib
5	961 N.R.J test	2-11"								56' Past Flag, 8 sweep.
6	932 SIMILARITY	1-32sec	1	5						50%
7	001 WINDstrip	1-52sec	1							66Db VibS shooting through the spread STARTING AT
8	002 25	1-21-29-96	1	5						50% STA#25.
9	003 26	1-22-30-96	1							70%
10	004 27	1-23-31-96	1							70%
11	005 28	1-24-32-96	1							70%
12	006 29	1-25-33-96	1							70%
13	007 30	1-26-34-96	1							70%
14	008 31	1-27-35-96	1							70%
15	009 32	1-28-36-96	1							70%
16	010 33	1-29-37-96	1							70%
17	011 34	1-30-38-96	1			223				70% E.O.#223, TAPE MKTS
18	013 36	1-32-40-96	1			224				70% B.D.#224, 900 10sec ALL ONES, WINDstrip File #012
19	014 38	1-34-42-96	1							70%
20	015 40	1-36-44-96	1							70%
21	016 42	1-38-46-96	1							70%
22	017 44	1-40-48-96	1							70%
23	018 46	1-42-50-96	1							70%
24	019 48	1-44-52-96	1							70%
25	020 50	1-46-54-96	1							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-Y1100	TYPE GEOPHONE ETL-DV22B	FREQUENCY 7.5HZ	STATION INTERVAL 330'
REMARKS 8ms sample RATE/52sec Record Length			OBSERVER R. PATTON, M. Richey	LINE DIR. 1 TO 24 S → N	
			PARTY MGR. L. DAVIS		

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services 2
Division
Geosource Inc.**

CLIENT COCORP	AREA UTAH	STATE UTAH	COUNTY MILLARD	DATE 11-24-82
CREW NO. 6834	TERRAIN Dirt Road	WEATHER Clear		LINE NO. # 5

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	933	PULSE				224	OUT	IN		Recorder SET At 72-73
2	934	FINT								
3	939	D.R.D								
4	954	SUM test								5 Vibs 100' spacing 41.25 MAKE UP. 1st Vib +56'
5	96	N.R.I test								Past Flag, 8 sweep
6	932	SIMILARITY	1	5		224			50%	Shooting through the spread. SHAKING EVERY OTHER ONE
7	021	WINDSTRIP	1			225			66%	E.O.T #224, TAPE MKTS
8	022	52	1	5					70%	B.O.T #225, 900 10sec ALL ONES.
9	023	54	1						70%	
10	024	56	1						70%	
11	025	58	1						70%	
12	026	60	1						70%	
13	027	62	1						70%	
14	028	64	1						70%	
15	029	66	1						70%	
16	030	68	1						70%	
17	031	70	1						70%	
18	032	72	1						70%	
19	033	74	1			225			70%	E.O.T #225, TAPE MKTS
20	034	76	1		windstrip	226			66%	B.O.T #226, 900 10sec ALL ONES
21	035	76	1						70%	NOTE: BLASTING ALONG LINE sweep*2.
22	036	78	1						70%	
23	037	80	1						70%	
24	038	82	1						70%	
25	039	84	1						70%	

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 S → N		

OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

Exploration Services
Division
Geosource Inc.

CLIENT COCORP	AREA UTAH	STATE UTAH	COUNTY MILLARD	DATE 11-24-82
CREW NO. 6834	TERRAIN Dirt Road	WEATHER Clear		LINE NO. # 5

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	86	1-82-90-96	1	5	226	226	OUT	IN	70%	
2	88	1-84-92-96	1						70%	
3	90	1-86-94-96	1						70%	
4	92	1-88-96	1						70%	
5	94	1-90	1						70%	
6	96	1-92	1						70%	
7	98	1-94	1			226			70%	E.O. + #226, TAPE MKTS
8	100	1-96	1	wind strip		227			66Db	B.O. + #227, 900 10sec HILONES.
9	100	1-96	1						70%	
10	101	2-97	2						70%	
11	102	3-98	3						70%	NOTE: BLASTING ALONG LINE SWEEP #6.
12	103	4-99	4						70%	
13	104	5-100	5						70%	SKIP FROM STA #105-128 DUE TO BLACK TOP.
14	1	8-103	8						70%	V.P. #1 OFFSET, 16 SWEEPS. EXPANDED SPREAD.
15	2	28-123	28						70%	V.P. #2 OFFSET, 16 SWEEPS. " "
16	3	40-135	40						70%	V.P. #3 OFFSET, 16 SWEEPS. " "
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.**

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CLIENT COCORP	AREA UTAH	STATE UTAH	COUNTY Millard
CREW NO. 6834		TERRAIN Dirt Road	WEATHER clear
			DATE 11-26-82

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 sweep	227	OUT	IN		Recorder SET AT 100-101
2	934/935 E.I.N.T	2 - " "								Highway # 50 Crossing Between STA 55+56
3	936/939 D.R.D.	4 - " "								5 Vibs 100' spacing, 41.25 MOVE UP. 1st Vib
4	953/959 Sum TEST	2 - " "								+56' PAST FLAG. 8 Sweep.
5	960/961 N.P.T TEST	2 - " "								
6	932 Similarity	1 - 32 sec	1	5		227			50%	E.O.T. #227, TAPE MKTS
7	056 Wind strip	1 - 52 sec	2			228			66Db	B.O.T. #228, 900 10sec ALL ONES.
8	057 129	30 - 125	2	5					70%	
9	058 130	31 - 126	3						70%	
10	059 131	32 - 127	4						70%	
11	060 132	33 - 128	5						70%	
12	061 133	34 - 129	6						70%	
13	062 134	35 - 130	7						70%	
14	063 135	36 - 131	8						70%	
15	064 136	37 - 132	9						70%	
16	065 137	38 - 133	10						70%	
17	066 138	39 - 134	11						70%	
18	067 139	40 - 135	12						70%	
19	068 140	41 - 136	13			228			70%	E.O.T. #228, TAPE MKTS
20	069 141	42 - 137	14	Wind strip		229			66Db	B.O.T. #229, 900 10sec ALL ONES.
21	070 141	42 - 137	14						70%	
22	071 142	43 - 138	15						70%	
23	072 143	44 - 139	16						70%	
24	073 144	45 - 140	17						70%	
25	074 145	46 - 141	18						70%	

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-γ 1100's	TYPE GEOPHONE ETLEV22B	FREQUENCY 7.5 Hz	STATION INTERVAL 330'
REMARKS 8ms Sample Rate / 52sec Record Length			OBSERVER K. Patten	PARTY MGR. M. Pichey	LINE DIR. 1 TO 24 S → N

OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

Exploration Services Division
Geosource Inc. 5

CLIENT <i>COCORP</i>	AREA <i>UTAH</i>	STATE <i>UTAH</i>	COUNTY <i>Millard</i>	DATE <i>11-26-87</i>
CREW NO. <i>6834</i>	TERRAIN <i>Dirt Road</i>	WEATHER <i>clear</i>		LINE NO. # <i>5</i>

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	075	146	47-142	19	5	229	cut	IN	70%	
2	076	147	48-143	20					70%	
3	077	148	49-144	21					70%	
4	078	149	50-145	22					70%	
5	079	150	51-146	23					70%	
6	080	151	52-147	24		229			70%	EOT # 229 Tape MKTs
7	081	152	53-148	25	wind strip	230			66db	BOT # 230, 900, 10sec ALL GUES.
8	082	152	53-148	25					70%	
9	083	153	54-149	26					70%	
10	084	154	55-150	27					70%	
11	085	155	56-151	28					70%	
12	086	156	57-152	29					70%	
13	087	157	58-153	30					70%	
14	088	158	59-154	31					70%	
15	089	159	60-155	32					70%	
16	090	160	61-156	33					70%	
17	091	161	62-157	34					70%	
18	092	162	63-158	35					70%	
19	093	163	64-159	36		230			70%	EOT # 230 Tape MKTs
20	094	VP*4	64-159	36	wind strip	231			66db	BOT # 231 * 900 10 sec All ones.
21	095	VP*4	64-159	36	7				70%	8 sweeps NOTE 10 miles AWAY.
22	096	VP*4	64-159	36						16 sweeps.
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 Millard	DATE 11-27-82
CREW NO. 6834	TERRAIN Dirt Road	WEATHER Clear		LINE NO. 5

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	933	Pulse	1 - 6 sec		missed Sweep	231	OUT	IN		Recorder set at 136-137
2	934/935	EINT	2 - " "							
3	936/939	DRD	4 - " "							5 Vib 100' spacing 41.25 MOVE UP. 1st Vib +56' Past Flag. 8 sweep. A1A1S 31.25
4	953/954	Sum TEST	2 - " "							
5	960/961	NRT TEST	2 - " "							
6										
7	097	wind strip	1 - 52 sec	16						66Db
8	098	V.P.#5	80-175	16	5	2				70% 8 SWEEPS. OFFSETS.
9	099	V.P.#5	80-175	16		2				70% 16 SWEEPS. " "
10	100	V.P.#5	80-175	16		3				70% 32 SWEEPS. " "
11	101	V.P.#6	96-191	47						70% 16 SWEEPS. " " Recorder MOVED BACK STA #121-122
12	102	V.P.#6	96-191	47		231				70% 32 SWEEPS. " " Vib ARE MISSING ABOUT TWO TONES
13	103	164	65-160	1	wind strip	232				66Db every sweep. F.O.T #231 TAPE MKTS, B.O.T #232
14	104	164	65-160	1	5					70% 900 10 sec ALL ONES. SIMILARITY ON FILE #932 C.D.P. #96
15	105	165	66-161	2						70% Recorder moved to STA #136-137. For normal operation
16	106	166	67-162	3						70%
17	107	167	68-163	4						70%
18	108	168	69-164	5						70%
19	109	169	70-165	6						70%
20	110	170	71-166	7						70%
21	111	171	72-167	8						70%
22	112	172	73-168	9						70%
23	113	173	74-169	10						70%
24	114	174	75-170	11		232				70% BOT #232 Tape MKTS
25	115	175	76-171	12	wind strip	233				66Db BOT #233 #900 10 sec ALL ONES

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	
SWEEP PATTERNS PER SETUP 1		PATCH PATTERN X		STATION INTERVAL 330'	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 5-V 11005	TYPE GEOPHONE ETL EV 22B	FREQUENCY 7.5 Hz	LINE DIR. 1 TO 24 S → N
REMARKS 8 ms Sample Rate / 52 sec Record Length.			OBSERVER K. Patten	PARTY MGR. M. Richey	L. Davis

OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

Exploration Services
Division
Geosource Inc.

CLIENT COCORP	AREA UTAh	STATE UTAh	COUNTY Millard
CREW NO. 6834	TERRAIN Dirt Road	WEATHER Partly Cloudy	DATE 11-27-82
			LINE NO. 5

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	116	175	76 -171	12	5	233	OUT	IN	70%	
2	SKIP	176	77 -172	13						Due to HOUSES
3	SKIP	177	78 -173	14						" " "
4	117	178	79 -174	15					70%	
5	118	179	80 -175	16					70%	
6	119	180	81 -176	17					70%	
7	120	181	82 -177	18					70%	STACKED 1st HALF.
8	SKIP	182	83 -178	19						Due to BARN.
9	121	183	84 -179	20					70%	
10	122	184	85 -180	21					70%	
11	123	185	86 -181	22					70%	
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.**

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CLIENT COCORP	AREA UTAH	STATE UTAH	COUNTY Millard	DATE 11-29-82
CREW NO. 6834	TERRAIN Dirt Road	WEATHER cloudy - wet		LINE NO. 5

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	FILTER			REMARKS
							LOCUT	60~	AMP	
1	933	Pulse				233	OUT	IN		Recorder set at 158-159
2	934/935	EINT								
3	936/939	DRD								5 Vib 100' spacing 41.25 move of 1st Vib
4	933/954	Sum TEST								+56' Past Flag. 8 Sweep. Alias 31.25
5	960/961	NRJ TEST								Winds Blowing Steady At 13 MPH.
6	932	Similarity	1	5		233			50%	E.O.T. 233, TAPE MKTS
7	124	Wind strip.	1			234			66%	B.O.T. 234, 900 10sec RUNONES.
8	125	186	87-182	1	5				70%	
9	126	187	88-183	2					70%	
10	127	188	89-184	3					70%	
11	128	189	90-185	4					70%	
12	129	190	91-186	5					70%	
13	130	191	92-187	6					70%	
14	131	192	93-188	7					70%	WINDS BLOWING Steady AT 15-17 MPH.
15	132	193	94-189	8					70%	
16	133	194	95-190	9					70%	
17	134	195	96-191	10					70%	
18	135	196	97-192	11					70%	
19	136	197	98-193	12		234			70%	E.O.T. 234, TAPE MKTS.
20										
21										
22										
23										
24										
25										

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8-32" 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 ET#DN22B	FREQUENCY 7.5Hz	STATION INTERVAL 330'
REMARKS 8ms SAMPLE RATE / 52sec Record Length			OBSERVER R. PATTON, M. Ricker	PARTY MGR. L. DAVIS	

OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

Exploration Services
Division
Geosource Inc. 9

CLIENT COCORP	AREA UTAH	STATE UTAH	COUNTY Millard	DATE 12-3-82
CREW NO. 6834	TERRAIN Dirt Road	WEATHER cloudy - WET.		LINE NO. 5

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				235	OUT	IN		Recorder set at 158-159.
2	1315 EINT	2 " "								B.O.T #235, 90 msec All ONES
3	1327 DRD	4 " "								5 Vibs 100' spacing 41.25' move up. 1st Vib +56'
4	153 SUM test	2 " "								Past FLAG. 8 sweep. Alias 31.25
5	160 NRT test	2 " "								
6	137 V.P.#6	96-191	10	5	3				70%	EXPANDING SPREAD. OFFSET. Reshaking #6 V.P. New
7	138 V.P.#6	96-191	10		5				70%	ANTENNA. 16 sweeps, 32 sweeps.
8	139 V.P.#7	110-205	49		6				70%	16 sweeps. Recorder moved BACK at 133-134.
9	140 V.P.#7	110-205	49		6				70%	32 sweeps.
10	141 198	99-194	1	5					70%	
11	142 199	100-195	2						70%	
12	143 200	101-196	3						70%	
13	144 201	102-197	4						70%	
14	145 202	103-198	5						70%	
15	146 203	104-199	6						70%	
16	147 204	105-200	7	5		235			70%	TEMP E.O.L. #5, E.O.T. #235, TAPE MKTS #204 stacked 1st half.
17										
18										
19										
20										
21										
22										
23										
24										
25										

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 		FREQUENCY 7.5 Hz	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 5-1100's	TYPE GEOPHONE ETL DV 22B	STATION INTERVAL 330'	LINE DIR. 1 TO 24 S-N
REMARKS 8ms sample rate 32sec Record Length			OBSERVER R. Patton, M. Richey	PARTY MGR. L. Davis	

GEO-252-C