

CLIENT COCORP
 PROSPECT Wind River UPR PROVINCE
 COUNTY _____ (STATE) Wyoming
 DIGITAL REEL NUMBER 1

PETTY-RAY GEOPHYSICAL INC. PAGE 1
 OBSERVERS REPORT LINE # 1

LINE NO. 1 DIR. SW to NE
 DATE _____ d _____ m _____ y CREW NO. 6841
 WEATHER _____ TERRAIN Rolling Country

Form # PRG 105

DIG. REC. NO	SHOT/SWEEP/DROP/POINT	RECORD (split where applicable)				TAPE NUMBER		DEAD TRACE NO	Traces on An. Tape or Correlator Display	CDP SWITCH POS	No. of Vib. / Thumps		TIME of SHOT	TAPE SPEED	AMP. INITIAL GAIN	AMP. FINAL GAIN	Drag Offset	REMARKS
		Tr. 1	Tr. 24	Tr. 25	Tr. 48	DIGITAL	ANALOG				Charge	Depth						
1	900	ALL ONES																DATE - 10-16-76 20 sec. Rec.
2	932	VST																
3	932	VST																
4	1	20	44		21	(RODS)				24	1 VIB. ON STN.							NOISE ↓ STUDY STN # 39 NOISE (CREEK)
5																		
6	2	18	44		21	(PRODUCTION ARRAY)				24	1 VIB. ON STN							HIGH WINDS DATE - 10-17-76
7	3	18	44		21					24	5 VIBS. - PRODUCTION							
8					2													
9	4	18			44		21			120	5 VIBS. - PRODUCTION							NO WIND DATE - 10-18-76
10	5	18			44		21			120								
11																		
12	6	18	21		44	45	68			21								EXPANDED SPREAD DATE - 10-18-76
13	7	17	22		45	46	69			22								
14	8	16	23		46	47	70			23								
15	9	15	24		47	48	71			24								
16																		
17	10	14	25		48	49	72			25			10:45					SLIGHT BREEZE DATE - 10-19-76
18	11	13	26		49	50	73			26								
19	12	12	27		50	51	74			27								
20	13	11	28		51	52	75			28								

GEOPHONE TYPE EV-22B FREQ. 7.5 Hz. GEO. PER PATCH 36 PATCH PATTERN 2x38 (100) GEO. INTERVAL VADIS SOURCE PATTERN 5x16 (792')
 AMPLIFIER TYPE IFP TAPE TRANSPORT MTM-12 SHOTS / SWEEPS / DROPS PER POINT 16 TOTAL FOR DAY _____
 STATION INTERVAL 440 SPREAD DIMENSIONS Noise - STUDY CDP STACK _____ TOTAL SET-UPS _____ SURFACE COV. _____ Miles
 RECORD FILTER ALIAS 31.25/2 SAMPLE RATE 8 Ms RECORD LENGTH 50 SWEEP NUMBER _____ SWEEP FREQ. 8-32 Hz. 20 sec
 DEPART CAMP _____ ARRIVE FIELD _____ DEPART FIELD _____ ARRIVE CAMP _____ TOTAL HOURS _____
 BREAKDOWN HOURS _____ 60 ~ NOTCH - In _____ Out ✓ OBSERVER SUNTJENS PAGE 1

CLIENT COCOAP
 PROSPECT WIND RIVER PROVINCE
 COUNTY _____ (STATE) Wyoming
 DIGITAL REEL NUMBER 1

PETTY-RAY GEOPHYSICAL INC.

PAGE 2 LINE NO. 1 DIR. SW to NE
 DATE 19 d 10 m 76 y CREW NO. 6841
 WEATHER SLIGHT BREEZE TERRAIN Grassy C

OBSERVERS REPORT

Form # PRG 105

DIG-REC NO.	SHOT/SWEEP/DROP/POINT	RECORD (split where applicable)						TAPE NUMBER		DEAD TRACE NO.	Traces on An. Tape or Correlator Display	CDP SWITCH POS.	No. of Vib. / Thumps.		TIME of SHOT	TAPE SPEED	AMP. INITIAL GAIN	AMP. FINAL GAIN	Drag Offset	REMARKS
		Tr. 1	Tr. 24	Tr. 25	Tr. 48	DIGITAL	ANALOG	Charge	Depth											
1	14	10	29	52	53		76				29	5		1:05					EXPANDED SPREAD ↓	
2	15	9	30	53	54		77				30	↓		1:25						
3	16	8	31	54	55		78				31			1:41						
4	17	7	32	55	56		79				32			2:00						
5	18	6	33	56	57		80				33			2:32						
6	19	5	34	57	58		81				34			2:52						
7	20	4	35	58	59		82				35			3:15						
8	21	3	36	59	60		83				36			3:55						
9	22	2	37	60	61		84				37			4:16						
10	23	1	38	61	62		85				38			4:55						
11	EOF																		END OF TAPE REEL	
12																			10:15 HAS. DOWN TIME	
13																			(BROKEN HOSE ON VIB.)	
14																				
15																				
16																				
17																				
18																				
19																				
20																				

RECORDED
MOS-8

GEOPHONE TYPE EV-22B FREQ. 7.5 Hz. GEO. PER PATCH 30 PATCH PATTERN 2x18 (600) GEO. INTERVAL VADIS SOURCE PATTERN 5x16 (792)
 AMPLIFIER TYPE IPP TAPE TRANSPORT MTM-12 SHOTS / SWEEPS / DROPS PER POINT 16 TOTAL FOR DAY _____
 STATION INTERVAL 440 SPREAD DIMENSIONS EXPANDED SPREAD CDP STACK _____ TOTAL SET-UPS _____ SURFACE COV. _____ Miles
 RECORD FILTER BLWS-31.25 SAMPLE RATE 8Hz RECORD LENGTH 50 sec. SWEEP NUMBER _____ SWEEP FREQ. 8-32
 DEPART CAMP _____ ARRIVE FIELD _____ DEPART FIELD _____ ARRIVE CAMP _____ TOTAL HOURS _____
 BREAKDOWN HOURS _____ 60 ~ NOTCH - In _____ Out OBSERVER SUNTJENS PAGE 2 of 30

CLIENT COCOAP
 PROSPECT Wind River ULIPT PROVINCE

PETTY-RAY GEOPHYSICAL INC.

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LINE NO. 1 DIR. SW to NE
 DATE 20 d 10 m 76 y CREW NO. 6841

COUNTY _____ (STATE) WYOMING
 DIGITAL REEL NUMBER 2

OBSERVERS REPORT

WEATHER LIGHT WINDY TERRAIN MEADOWS COUNTRY

Form # PRG 105

STATION	DIG. REC NO.	SHOT / SWEEP / DROP / POINT	RECORD (split where applicable)				TAPE NUMBER		DEAD TRACE NO.	Traces on An. Tape of Correlator Display	CDP SWITCH POS.	No. of Vib. / Thumos.		TIME of SHOT	TAPE SPEED	AMP. INITIAL GAIN	AMP. FINAL GAIN	Drag Offset	REMARKS
			Tr. 1	Tr. 24	Tr. 25	Tr. 48	DIGITAL	ANALOG				Charge	Depth						
1	24	45*	-5		18	19		42			18	5		1:30					
2	25	46.	-6.		19	18		41			17			2:20					
3	26	47	-7		16	17		40			16			2:42					CATTLE ON LINE - WAITING TIME
4	27	48	-8		15	15		39			15			3:16					
5	28	49	-9		14	15		38			14			3:49					
6	29	50	-10		13	14		39			13			4:20					
7	30	51	-11		12	13		36			12			4:36					
8	31	52	-12		11	12		35			11			4:50					
9	32	53	-13		10	11		34			10			5:15					
10	Reel # 33 & 34 SKIPPED ON TAPE																		
11	35	54	-14		9	10		33			9			10:45					DATE 21-10-76
12	36	55	-15		8	9		32			8			11:25					OFFSET 200' WEST OF LINE
13	37	56	-16		7	8		31			7			12:00					OFFSET 350' WEST OF LINE
14	38	57	-17		6	7		30			6			12:22					SOME WAITING ON TRAFFIC
15	39	58	-18		5	6		29			5			12:42					
16	40	59	-19		4	5		28			4			1:00					
17	41	60	-20		3	4		27			3			1:17					
18	42	61	-21		2	3		26			2			1:33					
19	43	62	-22		1	2		25			1			1:50					
20	ALL ONES																		
																		END OF TAPE REEL	

GEOPHONE TYPE EV-22B FREQ. 7.5 Hz. GEO. PER PATCH 36 PATCH PATTERN 2x18 (600) GEO. INTERVAL 1/16 SOURCE PATTERN 5x16 @ 70'
 AMPLIFIER TYPE IFP TAPE TRANSPORT MTM-12 SHOTS / SWEEPS / DROPS PER POINT 16 TOTAL FOR DAY _____
 STATION INTERVAL 440 SPREAD DIMENSIONS EXPANDED SPREAD CDP STACK _____ TOTAL SET-UPS _____ SURFACE COV. _____ Miles
 RECORD FILTER PL1A3 - 31.25 SAMPLE RATE 8 MS RECORD LENGTH 50000 SWEEP NUMBER _____ SWEEP FREQ. 8-32 1/2 20 Sec
 DEPART CAMP _____ ARRIVE FIELD _____ DEPART FIELD _____ ARRIVE CAMP _____ TOTAL HOURS _____
 BREAKDOWN HOURS _____ 60 ~ NOTCH - In _____ Out OBSERVER SUN TJENS PAGE 3 of 39

CLIENT COCOAP
 PROSPECT WIND BURN WAPITI PROVINCE
 COUNTY SWEET WATER (STATE) WYOMING
 DIGITAL REEL NUMBER 3

PETTY-RAY GEOPHYSICAL INC. PAGE 4

LINE NO. 1 DIR. SW to NE
 DATE 21 d 10 m 76 y CREW NO. 6841
 WEATHER LIGHT WIND TERRAIN ACROSS COUNTRY

OBSERVERS REPORT

Form # PRG 105

DIG. REC. NO.	SHOT / SWEEP / DROP / POINT	RECORD (split where applicable)				STATIONS		TAPE NUMBER		DEAD TRACE NO.	Traces on An. Tape or Correlator Display	CDP SWITCH POS.	No. of Vib. / Thumps.		TIME of SHOT	TAPE SPEED	AMP. INITIAL GAIN	AMP. FINAL GAIN	Drag Offset	REMARKS
		Tr. 1	Tr. 24	Tr. 25	Tr. 48	DIGITAL	ANALOG	Charge	Depth											
1	1	4	27	28			51				29	5		4:00			IFP		TIME LOST (VIBS. MOVING TO P20)	
2	2	5	28	29			52				28	↓		4:50			↓		(ALL ONES) DOWN TIME 0.5HR.	
3			GEO. UNPLUGGED & NOISE DUE TO ANIMALS.												LIGHT WIND 5-10MPH				DATE 10-22-76	
4	3	6	29	30			53				29			10:30			↓			
5	4	7	30	31			54				30			11:00						
6	5	8	31	32			55				31			11:30					ANIMALS CAUSING NOISE	
7	6	9	32	33			56				32			12:22						
8	7	10	33	34			57				33			12:47						
9	8	11	34	35			58				34			1:04						
10	9	12	35	36			59				35			1:22						
11	10	13	36	37			60				36			1:37						
12	11	14	37	38			61				37			1:56						
13	12	15	38	39			62				38			2:20						
14	13	16	39	40			63				39			2:41						
15	14	17	40	41			64				40			2:59	WIND	10-15 MPH.				
16	15	18	41	42			65				41			3:20			↓			
17	16	19	42	43			66				42			3:37						
18	17	20	43	44			67				43			3:52						
19	18	21	44	45			68				44			4:10	WIND INCREASED	15-20 MPH				
20	19	22	43	46			69				45			4:39			↓		SHUT DOWN (WIND NOISE)	

GEOPHONE TYPE ED-22B FREQ. 2.5 Hz. GEO. PER PATCH 36 PATCH PATTERN 2x18 OVER 600 GEO. INTERVAL VA015 SOURCE PATTERN 5X16 OVER 992
 AMPLIFIER TYPE IFP TAPE TRANSPORT MTM-12 SHOTS / SWEEPS / DROPS PER POINT 16 TOTAL FOR DAY _____
 STATION INTERVAL 440 SPREAD DIMENSIONS 0-1320 - 22000 CDP STACK 24 TOTAL SET-UPS _____ SURFACE COV. _____ Miles
 RECORD FILTER ALIAS - 31.25 Hz SAMPLE RATE 8 MS RECORD LENGTH 50 SEC. SWEEP NUMBER _____ SWEEP FREQ. 8-32 Hz 20000
 DEPART CAMP _____ ARRIVE FIELD _____ DEPART FIELD _____ ARRIVE CAMP _____ TOTAL HOURS _____
 BREAKDOWN HOURS _____ 60 ~ NOTCH - In _____ Out _____ OBSERVER SUNTJEWS PAGE 4 of 39

CLIENT Cocorp
 PROSPECT Wind River PROVINCE _____
 COUNTY _____ (STATE) Wyoming
 DIGITAL REEL NUMBER 4

PETTY-RAY GEOPHYSICAL INC.

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LINE NO. 1 DIR. SW to _____
 DATE 28 d 10 m 76 y CREW NO. 6841
 WIND - 0-5 MPH
 WEATHER CLEAR - COLD TERRAIN ACROSS COUNTRY

OBSERVERS REPORT

DIG. REC NO.	SHOT / SWEEP / DROP / POINT	RECORD (split where applicable)						TAPE NUMBER		DEAD TRACE NO.	Traces on An. Tape or Correlator Display	CDP SWITCH POS.	No. of Vib. / Thumps.		TIME of SHOT	TAPE SPEED	AMP. INITIAL GAIN	AMP. FINAL GAIN	Drag Offset	REMARKS
		Tr. 1		Tr. 24	Tr. 25		Tr. 48	DIGITAL	ANALOG				Charge	Depth						
28	28	31		54	55		78				21	4		11:30					STNS 39 & 59 NOISY (CAERNS)	
29	29	32		55	56		79				22	↓		11:50					OFFSET 75' EAST OF LINE	
30	30	33		56	57		80				23			12:10					OFFSET 50' EAST OF LINE	
31	31	34		57	58		81				24			12:40						
32	32	35		58	59		82				25			1:00						
33	33	36		59	60		83				26			1:25						
34	34	37		60	61		84				27			1:45						
35	35	38		61	62		85				28			2:05						
36	36	39		62	63		86				29			2:35						
37	37	40		63	64		87				30			2:55						
38	38	41		64	65		88				31			3:15					STN # 88 NOISY ?	
39	39	42		65	66		89				32			3:35					STACKED ON FIRST HALF (BRIDGE)	
40	40	43		66	67		90				33			4:45					VIBS. HAD TO DRIVE AROUND	
41	41	44		67	68		91				34			5:05					BECAUSE OF WEAK BRIDGE ON LINE. WAITING ON TRAW	
																			LATE START DUE TO 2 VIBS BEING DOWN. DOWN TIME 2 HRS	

PHONE TYPE EU-228 FREQ. 7.5 Hz. GEO. PER PATCH 36 PATCH PATTERN 2XB @ 600' GEO. INTERVAL VARIS SOURCE PATTERN 4x16 @ 704'
 AMPLIFIER TYPE 1FA TAPE TRANSPORT MTM-12 SHOTS / SWEEPS / DROPS PER POINT 16 TOTAL FOR DAY 4x224
 POSITION INTERVAL 440 SPREAD DIMENSIONS 0-1320-22000 CDP STACK _____ TOTAL SET-UPS _____ SURFACE COV. 1.166 Miles
 RECORD FILTER ALIAS-31.25Hz SAMPLE RATE 0ms RECORD LENGTH 50sec. SWEEP NUMBER _____ SWEEP FREQ. 0-32 @ 20500
 DEPART CAMP _____ ARRIVE FIELD _____ DEPART FIELD _____ ARRIVE CAMP _____ TOTAL HOURS _____
 BREAKDOWN HOURS 2 60 ~ NOTCH - In _____ Out ✓ OBSERVER SUNTJENS PAGE 6 of 39

CLIENT COCORP
 PROJECT Wind River Camp PROVINCE _____
 COUNTY _____ (STATE) WYOMING
 DIGITAL REEL NUMBER 4

PETTY-RAY GEOPHYSICAL INC.

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OBSERVERS REPORT

LINE NO. 1 DIR. SW to NE
 DATE 29 d 10 m 76 y CREW NO. 6841
 WIND 0-5 MPH
 WEATHER CLEAR-COOL TERRAIN ACROSS COUNTRY

DIG. REC. NO.	SHOT/SWEEP/DROP/POINT	RECORD (split where applicable)						TAPE NUMBER		DEAD TRACE NO.	Traces on An. Tape or Correlator Display	CDP SWITCH POS.	No. of Vib. / Thumps.		TIME of SHOT	TAPE SPEED	AMP. INITIAL GAIN	AMP. FINAL GAIN	Drag Offset	REMARKS
		Tr. 1	Tr. 24	Tr. 25	Tr. 48	DIGITAL	ANALOG	Charge	Depth											
42	42	45	68	69		92	4			35	5		10:00						SNOW MELTING CAUSING LEAKAGE	
43	43	46	69	70		93	↓			36	↓		10:20						FOUND & REPLACED 2 LEAKY CABLES.	
44	44	47	70	71		94				37			11:30							
45	45	48	71	72		95				38			11:55						WAITING ON TRAIN.	
EOF																			END OF TAPE REEL	

GEOPHONE TYPE EU-220 FREQ. 25 Hz. GEO. PER PATCH 36 PATCH PATTERN 2x18 @ 600' GEO. INTERVAL VARS SOURCE PATTERN 5x16 @ 792'
 AMPLIFIER TYPE IFP TAPE TRANSPORT MTH-12 SHOTS / SWEEPS / DROPS PER POINT 16 TOTAL FOR DAY _____
 STATION INTERVAL 440 SPREAD DIMENSIONS 0-1320-22000 CDP STACK 24 TOTAL SET-UPS _____ SURFACE COV. _____ Miles
 RECORD FILTER ALIAS-31.75 SAMPLE RATE 845 RECORD LENGTH 50sec. SWEEP NUMBER _____ SWEEP FREQ. 8-32 Hz @ 20sec
 DEPART CAMP _____ ARRIVE FIELD _____ DEPART FIELD _____ ARRIVE CAMP _____ TOTAL HOURS _____
 BREAKDOWN HOURS _____ 60 ~ NOTCH - In _____ Out _____ OBSERVER SUNTSOS PAGE 7 of 39

CLIENT COCORP
 PROJECT Wind River Hwy PROVINCE _____
 COUNTY _____ (STATE) WYOMING
 DIGITAL REEL NUMBER 5

PETTY-RAY GEOPHYSICAL INC.

PAGE 8

LINE NO. 1 DIR. SW to NE
 DATE 29 d 10 m 76 y CREW NO. 6841
 WEATHER WIND 0-5 MPH TERRAIN CLEAR-COOL ACROSS COUNTRY

OBSERVERS REPORT

DIG. REC NO.	SHOT/SWEEP/DROP/POINT	RECORD (split where applicable) STATIONS							TAPE NUMBER		DEAD TRACE NO.	Traces on An. Tape or Correlator Display	CDP SWITCH POS.	No. of Vibs. / Thumps		TIME of SHOT	TAPE SPEED	AMP. INITIAL GAIN	AMP. FINAL GAIN	Drag Offset	REMARKS
		Tr. 1	Tr. 24	Tr. 25	Tr. 48	DIGITAL	ANALOG	Charge	Depth												
46	46	49	72	73			96	5				39			12:30						
47	47	50	73	74			97	↓				40			12:50						
48	48	51	74	75			98					41			1:10						
49	49	52	75	76			99					42			1:00						WAITING ON TRAIN
50	50	53	76	77			100					43			1:25						
SKIP	51	54	77	78			101					44									} SHIPS DUE TO FLOWING WATER WELL
SKIP	52	55	78	79			102					45									
SKIP	53	56	79	80			103					46									
51	54	57	80	81			104					47			3:00						OFFSET 100' WEST OF LINE
52	55	58	81	82			105					48			3:20						OFFSET 400' WEST OF LINE
53	56	59	82	83			106					49			3:40						OFFSET 450' WEST OF LINE
54	57	60	83	84			107					49			4:10						OFFSET 500' WEST OF LINE

PHONE TYPE EU-22B FREQ. 7.5 Hz. GEO. PER PATCH 36 PATCH PATTERN 2X18 @ 600' GEO. INTERVAL VADIS. SOURCE PATTERN 5X16 @ 792
 AMPLIFIER TYPE IFP TAPE TRANSPORT MTH-12 SHOTS / SWEEPS / DROPS PER POINT 16 TOTAL FOR DAY 5 X 200
 TATION INTERVAL 440 SPREAD DIMENSIONS 0-1320-22000 CDP STACK 24 TOTAL SET-UPS 16 SURFACE COV. 1.333 Miles
 RECORD FILTER ALIAS. 31.75 SAMPLE RATE 875 RECORD LENGTH 50 sec. SWEEP NUMBER _____ SWEEP FREQ. 8-32 Hz @ 20 SEC.
 DEPART CAMP _____ ARRIVE FIELD _____ DEPART FIELD _____ ARRIVE CAMP _____ TOTAL HOURS _____
 BREAKDOWN HOURS _____ 60 ~ NOTCH - In _____ Out ✓ OBSERVER SANTJENS PAGE 8 of 39

CLIENT COCORP
 PROSPECT WIND RIVER HPRT PROVINCE
 COUNTY _____ (STATE) WYOMING
 DIGITAL REEL NUMBER 5

PETTY-RAY GEOPHYSICAL INC.

PAGE 9

LINE NO. 1 DIR. SW to NE
 DATE 30 d 10 m 76 y CREW NO. 10841
 WIND 0.5 MPH
 WEATHER CLOUDY-000 TERRAIN ACROSS-COUNTRY

OBSERVERS REPORT

Form #PRG 105

	DIG-REC NO.	SHOT/SWEEP/DROP/POINT	RECORD (split where applicable)						TAPE NUMBER		DEAD TRACE NO.	Traces on An. Tape or Correlator Display	CDP SWITCH POS.	No. of Vib. / Thumps.		TIME of SHOT	TAPE SPEED	AMP. INITIAL GAIN	AMP. FINAL GAIN	Drag Offset	REMARKS
			Tr. 1	Tr. 24	Tr. 25	Tr. 48	DIGITAL	ANALOG	Charge	Depth											
1	55	58	61		84	85		108	5			3	4		10:00					FIXING ADISEY STNS? WAITING ON TOWN	
2	56	59	62		85	86		109	↓			4	↓		10:20					OFFSET 550' TO WEST OF LINE	
3	57	60	63		86	87		110				5			10:40					OFFSET 400' TO WEST OF LINE	
4	58	61	64		87	88		111				6			11:00					OFFSET 300' TO WEST OF LINE	
5	59	62	65		88	89		112				7			11:20					OFFSET 50' TO WEST OF LINE	
6	60	63	66		89	90		113				8			11:40						
7	61	64	67		90	91		114				9			12:00						
8	62	65	68		91	92		115				10			12:20						
9	63	66	69		92	93		116				11			12:40						
10	64	67	70		93	94		117				12			1:00						
11	65	68	71		94	95		118				13			1:20						
12	66	69	72		95	96		119				14			1:40						
13	67	70	73		96	98		120				15			2:00					OFFSET 50' TO WEST OF LINE	
14	68	71	74		97	98		121				16			2:20					OFFSET 200' TO WEST OF LINE	
15	69	72	75		98	99		122				17			2:40					OFFSET 400' TO WEST OF LINE	
16	70	73	76		99	100		123				18			3:00					OFFSET 250' TO WEST OF LINE	
17	71	74	77		100	101		124				19			3:20					OFFSET 75' TO WEST OF LINE	
18	EOF		98		101	102		125		END OF TAPE REEL		20			3:40						
19																					
20																					

GEPHONE TYPE EU-22B FREQ. 2.5 Hz. GEO. PER PATCH 36 PATCH PATTERN 2x18 @ 600' GEO. INTERVAL VARIS SOURCE PATTERN 5x16 @ 792'
 AMPLIFIER TYPE IEP TAPE TRANSPORT MTM-12 SHOTS / SWEEPS / DROPS PER POINT 4 TOTAL FOR DAY _____
 STATION INTERVAL 440 SPREAD DIMENSIONS 0-1320 - 22006 CDP STACK 24 TOTAL SET-UPS _____ SURFACE COV. _____ Miles
 RECORD FILTER ALIAS-31.75 SAMPLE RATE 816 RECORD LENGTH 50SEC SWEEP NUMBER _____ SWEEP FREQ. 8-32 Hz @ 20SEC
 DEPART CAMP _____ ARRIVE FIELD _____ DEPART FIELD _____ ARRIVE CAMP _____ TOTAL HOURS _____
 BREAKDOWN HOURS _____ 60 ~ NOTCH - In Out OBSERVER SUNTIENS PAGE 9 of 39

CLIENT CoCoAP
 PROSPECT WIND RIVER LANDS PROVINCE
 COUNTY SWEETWATER (STATE) WYOMING
 DIGITAL REEL NUMBER 6

PETTY-RAY GEOPHYSICAL INC.

PAGE 10

LINE NO. 1 DIR. SW to NE
 DATE 30 d 10 m 76 y CREW NO. 6841
 WIND 0-5 MPH
 WEATHER CLEAR-COOL TERRAIN ACROSS COUNTRY

OBSERVERS REPORT

Form # PRG 105

	DIG. REC. NO.	SHOT / SWEEP / DROP / POINT	RECORD (split where applicable)					TAPE NUMBER		DEAD TRACE NO.	Traces on An. Tape or Correlator Display	CDP SWITCH POS.	No. of Vib. / Thumps.		TIME of SHOT	TAPE SPEED	AMP. INITIAL GAIN	AMP. FINAL GAIN	Drag Offset	REMARKS
			Tr. 1	Tr. 24	Tr. 25	Tr. 48	DIGITAL	ANALOG	Charge				Depth							
1	72	75	78		101	102		125	6		20	5		3:40						
2	73	76	79		102	103		126	↓		21	↓		4:00						
3	74	77	80		103	104		127			22			4:20						
4	75	78	81		104	105		128			23			4:40						
5	76	79	82		105	106		129			24			5:00						
6	77	80	83		106	107		130			25			5:20						
7	78	81	84		107	108		131			26			5:40						
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				

GEOPHONE TYPE ED-22B FREQ. 25 Hz. GEO. PER PATCH 36 PATCH PATTERN 2x18 @ 600' GEO. INTERVAL VARIES SOURCE PATTERN 5x16 @ 794'
 AMPLIFIER TYPE 1FP TAPE TRANSPORT MTH-12 SHOTS / SWEEPS / DROPS PER POINT 16 TOTAL FOR DAY 5x384'
 STATION INTERVAL 440' SPREAD DIMENSIONS 0-1320-22000 CDP STACK 24 TOTAL SET-UPS 24 SURFACE COV. 2.0 Miles
 RECORD FILTER ALIAS - 71.75 SAMPLE RATE 8MS. RECORD LENGTH 50500. SWEEP NUMBER _____ SWEEP FREQ. 8-32 @ 20500.
 DEPART CAMP _____ ARRIVE FIELD _____ DEPART FIELD _____ ARRIVE CAMP _____ TOTAL HOURS _____
 BREAKDOWN HOURS _____ 60 ~ NOTCH - In _____ Out OBSERVER SUNTSSENS PAGE 10 of 39

CLIENT COCORP
 PROSPECT WIND RIVER HONEY PROVINCE
 COUNTY _____ (STATE) WYOMING
 DIGITAL REEL NUMBER 6

PETTY-RAY GEOPHYSICAL INC.

PAGE 11

LINE NO. 1 DIR. SW to NE
 DATE 31 d 10 m 76 y CREW NO. 0841
 WIND Gusty to 10 MPH.
 WEATHER CLEAR-COOL TERRAIN Across Country

OBSERVERS REPORT

Form # PRG 105

STATION	DIG. REC. NO.	SHOT/SWEEP/DROP/POINT	RECORD (split where applicable)					TAPE NUMBER		DEAD TRACE NO.	Traces on An. Tape or Correlator Display	CDP SWITCH POS.	No. of Vib. / Thumps		TIME of SHOT	TAPE SPEED	AMP. INITIAL GAIN	AMP. FINAL GAIN	Drag Offset	REMARKS
			Tr. 1	Tr. 24	Tr. 25	Tr. 48	DIGITAL	ANALOG	Charge				Depth							
1	79	82	85	108	109	132					27	5		9:50					WAITING ON TRAIN. CHASING	
2	80	83	86	109	110	133					28	6		10:10					COWS OF LINE	
3	81	84	87	110	111	134					29			10:30						
4	82	85	88	111	112	135					30			10:50						
5	83	86	89	112	113	136					31			11:10					WINDS - 10-20 MPH	
6	84	87	90	113	114	137					32			12:00					LINE PROBLEMS DUE TO	
7	85	88	91	114	115	138					33			1:30					LEAKAGE CAUSED BY MELTING	
8	86	89	92	115	116	139					34			1:50					SNOW. CHANGING OUT SOME	
9	87	90	93	116	117	140					35			2:10					GEOPHONES.	
10	88	91	94	117	118	141					36			2:30					WAITING ON HEAD OF SHEEP	
11	89	92	95	118	119	142					37			2:50					TO CROSS LINE - REPLANT	
12	90	93	96	119	120	143					38			3:10					GEOPHONES. WAITING ON TRAIN	
13	91	94	97	120	121	144					39			3:30						
14	92	95	98	121	122	145					40			3:50						
15	93	96	99	122	123	146					41			4:10						
16																				
17																				
18																				
19																				
20																				

GEOPHONE TYPE EV-22B FREQ. 25 Hz. GEO. PER PATCH 36 PATCH PATTERN 2X18 @ 600' GEO. INTERVAL VADIS SOURCE PATTERN 5X16 @ 792'
 AMPLIFIER TYPE IFP TAPE TRANSPORT MTM-12 SHOTS / SWEEPS / DROPS PER POINT 16 TOTAL FOR DAY 5X 240
 STATION INTERVAL 440 SPREAD DIMENSIONS 0-1320-22000 CDP STACK 24 TOTAL SET-UPS 15 SURFACE COV. 1.25 Miles
 RECORD FILTER ALIAS-31.25 SAMPLE RATE 8 Hz RECORD LENGTH 50 sec. SWEEP NUMBER _____ SWEEP FREQ. 8-32 @ 20 sec.
 DEPART CAMP _____ ARRIVE FIELD _____ DEPART FIELD _____ ARRIVE CAMP _____ TOTAL HOURS _____
 BREAKDOWN HOURS _____ 60 ~ NOTCH - In _____ Out OBSERVER GUNTERS PAGE 11 of 39

CLIENT COCORP
 PROSPECT Wind River Unit PROVINCE _____
 COUNTY _____ (STATE) WYOMING
 DIGITAL REEL NUMBER 6

PETTY-RAY GEOPHYSICAL INC.

LINE NO. 1 DIR. SW to NE
 DATE 1 d 11 m 76 y CREW NO. 6841
 WIND - 0-5 MPH.
 WEATHER CLEAR-COOL TERRAIN ACROSS COUNTRY

OBSERVERS REPORT

PAGE 12

Form # PRG 105

DIG. REC. NO.	SHOT/SWEEP/DROP/POINT	RECORD (split where applicable) STATIONS						TAPE NUMBER		DEAD TRACE NO.	Traces on An. Tape or Correlator Display	CDP SWITCH POS	No. of Vib. / Thumps		TIME of SHOT	TAPE SPEED	AMP. INITIAL GAIN	AMP. FINAL GAIN	Drag Offset	REMARKS
		Tr. 1	Tr. 24	Tr. 25	Tr. 48	DIGITAL	ANALOG	Charge	Depth											
1	94	97	100		123	124		147	6		42	5		9:30					WIND 0-5 MPH	
2	95	98	101		124	125		148	↓		43	↓		9:50						
3	96	99	102		125	126		149			44			10:10					WIND 5-10 MPH	
4	97	100	103		126	127		150			45			10:50					WAITING ON TRAIN	
5	EOF								END OF TAPE REEL											
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				

GEOPHONE TYPE EV-22B FREQ. 7.5 Hz. GEO. PER PATCH 24 PATCH PATTERN 2x18 @ 600' GEO. INTERVAL VARIS SOURCE PATTERN 5x16 @ 792'
 AMPLIFIER TYPE 1FP TAPE TRANSPORT MTM-12 SHOTS / SWEEPS / DROPS PER POINT 16 TOTAL FOR DAY _____
 STATION INTERVAL 440 SPREAD DIMENSIONS 0-1320-22000 CDP STACK 24 TOTAL SET-UPS _____ SURFACE COV. _____ Miles
 RECORD FILTER ALIAS-31.25 SAMPLE RATE 8MS RECORD LENGTH 50sec. SWEEP NUMBER _____ SWEEP FREQ. 8-32 Hz @ 20sec.
 DEPART CAMP _____ ARRIVE FIELD _____ DEPART FIELD _____ ARRIVE CAMP _____ TOTAL HOURS _____
 BREAKDOWN HOURS _____ 60 ~ NOTCH - In _____ Out _____ OBSERVER SMITH JENS PAGE 12 of 39

CLIENT Cocorp
 PROSPECT Wind River Uplift PROVINCE
 COUNTY SWEETWATER (STATE) WYOMING
 DIGITAL REEL NUMBER 7

PETTY-RAY GEOPHYSICAL INC.

PAGE 13

LINE NO. 1 DIR. SW to NE
 DATE 1 d 11 m 76 y CREW NO. 6841

OBSERVERS REPORT

WEATHER CLEAR-COLD TERRAIN ACROSS COUNTRY

Form # PRG 105

DIG. REC NO.	SHOT/SWEEP/DROP/POINT	RECORD (split where applicable)						TAPE NUMBER		DEAD TRACE NO.	Traces on An. Tape or Correlator Display	CDP SWITCH POS.	No. of Vib. / Thumps.		TIME of SHOT	TAPE SPEED	AMP. INITIAL GAIN	AMP. FINAL GAIN	Drag Offset	REMARKS
		Tr. 1	Tr. 24	Tr. 25	Tr. 48	DIGITAL	ANALOG	Charge	Depth											
1	98	101	104	128	128		151	7			46	5		11:10					WIND 5-10 MPH ↓ OFFSET 250' WEST OF LINE	
2	99	102	105	128	129		152	↓			47	↓		11:30					OFFSET 75' WEST OF LINE	
3	100	103	106	129	130		153				48			11:50					OFFSET 50' WEST OF LINE	
4	101	104	107	130	131		154				49			12:10					O.B. TAPEK MOVING UP.	
5	102	105	108	131	132		155				21			1:10					WIND 10-15 MPH ↓	
6	103	106	109	132	133		156				22			1:45					WAITING ON TRAIN	
7	104	107	110	133	134		157				23			2:05						
8	105	108	111	134	135		158				24			2:25						
9	106	109	112	135	136		159				25			2:45						
10	107	110	113	136	137		160				26			3:10					REPLACING GEOPHONE	
11	108	111	114	137	138		161				27			3:30					THAT HAD TO MUCH LEAKAGE	
12	109	112	115	138	139		162				28			4:10						
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				

GEOPHONE TYPE EV-22B FREQ. 25 Hz. GEO. PER PATCH 24 PATCH PATTERN 2x18 @ 600' GEO. INTERVAL 1/4015 SOURCE PATTERN 5x16 @ 792'
 AMPLIFIER TYPE 1PP TAPE TRANSPORT MTH-12 SHOTS / SWEEPS / DROPS PER POINT 16 TOTAL FOR DAY 5x 252
 STATION INTERVAL 440 SPREAD DIMENSIONS 0 - 1320 - 22000 CDP STACK 24 TOTAL SET-UPS 16 SURFACE COV. 1.333 Miles
 RECORD FILTER AIMS - 31.25 SAMPLE RATE 8MS. RECORD LENGTH 50 SEC. SWEEP NUMBER _____ SWEEP FREQ. 8-32 Hz @ 20500.
 DEPART CAMP _____ ARRIVE FIELD _____ DEPART FIELD _____ ARRIVE CAMP _____ TOTAL HOURS _____
 BREAKDOWN HOURS _____ 60 ~ NOTCH - In _____ Out OBSERVER SUNTJENS PAGE 13 of 39

CLIENT COCORP
 PROSPECT WIND BREAK PLANT PROVINCE _____
 COUNTY SWEET WATER (STATE) WYOMING
 DIGITAL REEL NUMBER 7

PETTY-RAY GEOPHYSICAL INC.

PAGE E14

LINE NO. 1 DIR. SW to NE
 DATE 2 d 11 m 76 y CREW NO. 6841

OBSERVERS REPORT

WEATHER CLOUDY - COOL TERRAIN ACROSS COUNTRY

DIG. REC NO.	SHOT / SWEEP / DROP / POINT	RECORD (split where applicable)						TAPE NUMBER		DEAD TRACE NO.	Traces on An. Tape or Correlator Display	CDP SWITCH POS.	No. of Vib. / Thumps.		TIME of SHOT	TAPE SPEED	AMP. INITIAL GAIN	AMP. FINAL GAIN	Drag Offset	REMARKS
		Tr. 1	Tr. 24	Tr. 25	Tr. 48	DIGITAL	ANALOG	Charge	Depth											
110	113	116	139	140			163	7			29	4		9:00					WIND 0-5 MPH	
111	114	117	140	141			164	↓			30	5		9:20						
112	115	118	141	142			165				31	↓		9:40						
113	116	119	142	143			166				32			10:00					WAITING ON TRAIN	
114	117	120	143	144			167				33			10:40						
115	118	121	144	145			168				34	4		11:00						
116	119	122	145	146			169				35	↓		11:20						
117	120	123	146	147			170				36	5		11:40					GETTING QUITE A FEW	
118	121	124	147	148			171				37	↓		12:00					STATIC BLASTS	
119	123	125	148	149			172				38	4		12:20					↓	
120	123	126	149	150			173				39	↓		12:40						
121	124	127	150	151			174				40			1:00						
122	125	128	151	152			175				41			1:20						
123	126	129	152	153			176				42			1:40						
124	ALL PAGES (15 SEC. REC)							END OF TAPE REEL												

TELEPHONE TYPE EV-223 FREQ. 2.5 Hz. GEO. PER PATCH 24 PATCH PATTERN 2X18 @ 600' GEO. INTERVAL VARIOUS SOURCE PATTERN 5X16 @ 752'
 AMPLIFIER TYPE IPP TAPE TRANSPORT MTM-12 SHOTS / SWEEPS / DROPS PER POINT 16 TOTAL FOR DAY _____
 STATION INTERVAL 440 SPREAD DIMENSIONS 0-1320 - 22000 CDP STACK 24 TOTAL SET-UPS _____ SURFACE COV. _____ Miles
 RECORD FILTER ALIAS 31.25 SAMPLE RATE 8 MS. RECORD LENGTH 80 SEC. SWEEP NUMBER _____ SWEEP FREQ. 8-32 @ 20 SEC.
 DEPART CAMP _____ ARRIVE FIELD _____ DEPART FIELD _____ ARRIVE CAMP _____ TOTAL HOURS _____
 BREAKDOWN HOURS _____ 60 ~ NOTCH - In _____ Out OBSERVER SUNTIENS PAGE 14 of 39

CLIENT COCOA
 PROSPECT WIND RIVER UNIT PROVINCE _____
 COUNTY SWEETWATER (STATE) WYOMING
 DIGITAL REEL NUMBER 8

PETTY-RAY GEOPHYSICAL INC. PAGE 16

LINE NO. 1 DIR. SW to NE

DATE 3 d 11 m 76 y CREW NO. 6841

OBSERVERS REPORT

WEATHER CLEAR-COOL TERRAIN ACROSS COUNTRY

DIG-REC NO.	SHOT/SWEEP/DROP/POINT	RECORD (split where applicable)						TAPE NUMBER		DEAD TRACE NO.	Traces on An. Tape or Correlator Display	CDP SWITCH POS	No. of Vibrs. / Thumps		TIME of SHOT	TAPES SPEED	AMP-INITIAL GAIN	AMP-FINAL GAIN	Drag Offset	REMARKS
		Tr. 1	Tr. 24	Tr. 25	Tr. 48	DIGITAL	ANALOG	Charge	Depth											
130	133	130	159	160			183	8			1	4				9:45			← WIND 0-5 MPH	
132	134	137	160	161			184	↓			2	↓				10:30			← REC # 130 NG. BAD SPOT ON TAPE	
133	135	138	161	162			185				3					10:50				
134	136	139	162	163			186				4					11:10				
135	137	140	163	164			187				5	5				11:30				
136	138	141	164	165			188				6	↓				11:50				
137	139	142	165	166			189				7					12:10				
138	140	143	166	167			190				8					12:30				
139	141	144	167	168			191				9					12:50				
140	142	145	168	169			192				10					1:10			← CHAN # 143 OFFSET 120' TO NW OF LINE	
141	143	146	169	170			193				11					1:30			← WAITING ON TRAIN	
142	144	147	170	171			194				12					2:50			← OFFSET 206' NW OF LINE	
143	145	148	171	172			195				13					2:30			← OFFSET 260' N.W. OF LINE	
144	146	149	172	173			196				14					2:50			← OFFSET 310' N.W. OF LINE	
145	147	150	173	174			197				15					3:10			← OFFSET 405' N.W. OF LINE	
146	148	151	174	175			198				16					3:30			← OFFSET 400' N.W. OF LINE	
147	149	153	175	176			199				17					3:50			← OFFSET 560' N.W. OF LINE	
148	150	154	176	177			200				18					4:10			← OFFSET 620' N.W. OF LINE	
149	151	155	177	178			201				19					4:30			← OFFSET 780' N.W. OF LINE	
150	152	156	178	179			202				20					4:50			← OFFSET 75' SE OF LINE	

999 ALL ONES.
 MICROPHONE TYPE EU-22B FREQ. 7.5 Hz. GEO. PER PATCH 24 PATCH PATTERN 2x18 @ 600' GEO. INTERVAL VARIS SOURCE PATTERN 5x16 @ 792'
 AMPLIFIER TYPE 1PP TAPE TRANSPORT MTH-12 SHOTS / SWEEPS / DROPS PER POINT 12 TOTAL FOR DAY 5X 320
 STATION INTERVAL 440 SPREAD DIMENSIONS 0-1320-22000 CDP STACK 24 TOTAL SET-UPS 20 SURFACE COV. 1.666 Miles
 RECORD FILTER 4110s 3125 SAMPLE RATE 8115 RECORD LENGTH 50500 SWEEP NUMBER _____ SWEEP FREQ. 8-72 Hz @ 2.05 sec.
 DEPART CAMP _____ ARRIVE FIELD _____ DEPART FIELD _____ ARRIVE CAMP _____ TOTAL HOURS _____
 BREAKDOWN HOURS _____ 60 ~ NOTCH - In _____ Out OBSERVER SURTENS PAGE 16 of 39

CLIENT COOP
 PROJECT WIND RIVER WARRI PROVINCE _____
 COUNTY SWEETWATER (STATE) WYOMING
 DIGITAL REEL NUMBER 9

PETTY-RAY GEOPHYSICAL INC.

PAGE 517

LINE NO. 1 DIR. SW to NE
 DATE 11 d 4 m 76 y CREW NO. 4941
 WEATHER CLEAR - MILD TERRAIN Rolling Country

OBSERVERS REPORT

DIG. REC NO.	SHOT / SWEEP / DROP / POINT	RECORD (split where applicable)			STATIONS		TAPE NUMBER		DEAD TRACE NO.	Traces on An. Tape or Correlator Display	CDP SWITCH POS.	No. of Vib. / Thumps.		TIME of SHOT	TAPE SPEED	AMP. INITIAL GAIN	AMP. FINAL GAIN	Drag Offset	REMARKS
		Actual STN	VIBRATED	Tr. 24	Tr. 25	Tr. 48	DIGITAL	ANALOG				Charge	Depth						
151	153(150)	150		179	180		203	9			21	5		9:45					WIND 0-5 MPH
152	154(153)	153		180	181		204	↓			22	↓		10:05					OFFSET 150' SE OF LINE
153	155(154)	158		181	182		205				23			10:25					OFFSET 180' SE OF LINE
154	156(155)	159		182	183		206				24			11:00					WAITING ON TRAIN
155	157(156)	160		183	184		207				25			11:20					NOTE VIBS. OFFSET 0-1760-2240
156	158(157)	161		184	185		208				26			11:40					BECAUSE LINE STN 152 WAS THE SAME AS OFFSET 11PH 153
157	159	162		185	186		209				27			11:50	CORRECT				REPLACING CABLE WITH ETC.
158	160	163		186	187		210				28			1:50					TO MUCH LEAKAGE.
159	161	164		187	188		211				29			2:10					VIBS STUCK IN SAND
160	162	165		188	189		212				30			2:30					
161	163	166		189	190		213				31			2:50					* See # 162 N.G. - BAD SPOT ON TAPE
*163	164	167		190	191		214				32			3:25					ANTELOPE ON LINE CAUSING NOISE
164	165	168		191	192		215				33			3:45					
165	166	169		192	193		216				34			4:05					
166	167	170		193	194		217				35			4:25					

GEOPHONE TYPE EV-32B FREQ. 7.5 Hz GEO. PER PATCH 36 PATCH PATTERN 2x18 @ 600' GEO. INTERVAL VADIS SOURCE PATTERN 5x32 @ 792
 AMPLIFIER TYPE IFP TAPE TRANSPORT MTM-12 SHOTS / SWEEPS / DROPS PER POINT 16 TOTAL FOR DAY 5x180
 STATION INTERVAL 440 SPREAD DIMENSIONS 0-1320-22000 CDP STACK 24 TOTAL SET-UPS 15 SURFACE COV. 1.25 Miles
 RECORD FILTER ALIAS 31.25 SAMPLE RATE 8 Hz RECORD LENGTH 50 sec. SWEEP NUMBER _____ SWEEP FREQ. 8-32 @ 20500
 DEPART CAMP _____ ARRIVE FIELD _____ DEPART FIELD _____ ARRIVE CAMP _____ TOTAL HOURS _____
 BREAKDOWN HOURS _____ 60 ~ NOTCH - In _____ Out OBSERVER SWITJENS PAGE 17 of 39

CLIENT COBORP
 PROSPECT WIND RIVER PROVINCE
 COUNTY SUBLETTE (STATE) WYOMING
 DIGITAL REEL NUMBER 9

PETTY-RAY GEOPHYSICAL INC.

PAGE 18

LINE NO. 1 DIR. SW to NE
 DATE 5 d 11 m 76 y CREW NO. 6841
 WEATHER CLEAR-COOL TERRAIN Rolling Country

OBSERVERS REPORT

Form # PRG 105

	DIG. REC. NO.	SHOT/SWEEP/DROP/POINT	RECORD (split where applicable)					TAPE NUMBER		DEAD TRACE NO.	Traces on An. Tape or Correlator Display	CDP SWITCH POS.	No. of Vib. / Thumos.		TIME of SHOT	TAPE SPEED	AMP. INITIAL GAIN	AMP. FINAL GAIN	Drag Offset	REMARKS
			Tr. 1	Tr. 24	Tr. 25	Tr. 48	DIGITAL	ANALOG	Charge				Depth							
1	167	168	170		194	195		218	9		36	4		10:30					WIND 0-5 MPH	
2	168	169	172		195	196		219	↓		37	↓		10:50					1 HR. LOST WITH LEAKAGE PROBLEMS	
3	169	170	173		196	197		220			38			11:10						
4	170	171	174		197	198		221			39			11:30						
5	171	172	175		198	199		222			40			11:50						
6	172	173	176		199	200		223			41			12:10						
7	173	174	177		200	201		224			42			12:30					WIND 5-10 MPH	
8	174	175	178		201	202		225			43			12:50					STN #202 NOISY (?)	
9	175	176	179		202	203		226			44			1:10						
10	176	177	180		203	204		227			45			1:30						
11	999	ALL OVES (10 SEC)							END OF TAPE REEL											
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				

GEOPHONE TYPE EV22B FREQ. 35 Hz. GEO. PER PATCH 36 PATCH PATTERN 2x18 @ 600 GEO. INTERVAL VARIES SOURCE PATTERN 4x16 @ 204'
 AMPLIFIER TYPE IFP TAPE TRANSPORT MTM-12 SHOTS / SWEEPS / DROPS PER POINT 16 TOTAL FOR DAY _____
 STATION INTERVAL 440' SPREAD DIMENSIONS 0-1320-2200 CDP STACK 24 TOTAL SET-UPS _____ SURFACE COV. _____ Miles
 RECORD FILTER ALIAS - 31.25 Hz SAMPLE RATE 0.1 Ms. RECORD LENGTH 50580 SWEEP NUMBER _____ SWEEP FREQ. 8-32 Hz @ 20580
 DEPART CAMP _____ ARRIVE FIELD _____ DEPART FIELD _____ ARRIVE CAMP _____ TOTAL HOURS _____
 BREAKDOWN HOURS _____ 60 ~ NOTCH - In _____ Out OBSERVER SUNTSENS PAGE 18 of 39

CLIENT CoCoAP
 PROSPECT Wind River Basin PROVINCE _____
 COUNTY SUBLETTE (STATE) WYOMING
 DIGITAL REEL NUMBER 10

PETTY-RAY GEOPHYSICAL INC.

PAGE 19

LINE NO. 1 DIR. SW to N12
 DATE 5 d 11 m 76 y CREW NO. 6841

OBSERVERS REPORT

WEATHER CLEAR AND TERRAIN ACROSS COUNTRY

Form # PRG 105

No.	DIG. REC. NO.	SHOT/SWEEP/DROP/POINT	RECORD (split where applicable)					TAPE NUMBER		DEAD TRACE NO.	Traces on An. Tape or Correlator Display	CDP SWITCH POS.	No. of Vib. / Thumps		TIME of SHOT	TAPE SPEED	AMP. INITIAL GAIN	AMP. FINAL GAIN	Drag Offset	REMARKS
			Tr. 1	Tr. 24	Tr. 25	Tr. 48	DIGITAL	ANALOG	Charge				Depth							
1	177	178	181	204	205		228				46			1:50					WIND 5-10 MPH	
2	178	179	182	205	206		229				47			2:10						
3	179	180	183	206	207		230				48			2:30						
4	180	181	184	207	208		231				49			3:15					ANTELOPE ON LINE DOWN U.S.T.	
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				

GEOPHONE TYPE EV-22B FREQ. 7.5 Hz. GEO. PER PATCH 36 PATCH PATTERN 2x18 @ 600' GEO. INTERVAL VADIS SOURCE PATTERN 4x16 @ 704'
 AMPLIFIER TYPE IFP TAPE TRANSPORT HTM-12 SHOTS / SWEEPS / DROPS PER POINT 16 TOTAL FOR DAY 4x164
 STATION INTERVAL 440 SPREAD DIMENSIONS 0-1320-2200 CDP STACK 24 TOTAL SET-UPS 14 SURFACE COV. 1.166 Miles
 RECORD FILTER ALIAS 31.25 SAMPLE RATE 0.15 RECORD LENGTH 50 sec SWEEP NUMBER _____ SWEEP FREQ. 8-32 Hz @ 10 sec
 DEPART CAMP _____ ARRIVE FIELD _____ DEPART FIELD _____ ARRIVE CAMP _____ TOTAL HOURS _____
 BREAKDOWN HOURS _____ 60 ~ NOTCH - In _____ Out OBSERVER SUNNENS PAGE 19 of 39

CLIENT COCORA
 PROSPECT WIND RIVER VALLEY PROVINCE _____
 COUNTY FREMONT (STATE) WYOMING
 DIGITAL REEL NUMBER 10

PETTY-RAY GEOPHYSICAL INC.

PAGE 20

LINE NO. 1 DIR. SW to NE
 DATE 8 d 11 m 76 y CREW NO. 6841

OBSERVERS REPORT

WEATHER CLEAR-COOL TERRAIN ACROSS COUNTRY

Form # PRG 105

	DIG. REC. NO.	SHOT/SWEEP/DROP/POINT	RECORD (split where applicable)					TAPE NUMBER		DEAD TRACE NO.	Traces on An. Tape or Correlator Display	CDP SWITCH POS.	No. of Vib. / Thumos.		TIME of SHOT	TAPE SPEED	AMP. INITIAL GAIN	AMP. FINAL GAIN	Drag Offset	REMARKS
			Tr. 1	Tr. 24	Tr. 25	Tr. 48	DIGITAL	ANALOG	Charge				Depth							
1	181	182	185		208	209		232	10			1	4	11:00					WIND 10-15 MPH ↓ LATE START DUE TO 4 BAD CABLES	
2	182	183	186		209	210		233	↓			2	↓	11:20						
3	183	184	187		210	211		234				3		11:40						
4	184	185	188		211	212		235				4		12:00						
5	185	186	189		212	213		236				5		12:20						
6	186	187	190		213	214		237				6		12:40						
7	187	188	191		214	215		238				7		1:00					WIND 15-20 MPH ↓	
8	188	189	192		215	216		239				8	5	1:20						
9	189	190	193		216	217		240				9	↓	1:40					STACHED ON LAST HALF (ROAD)	
10	190	191	194		217	218		241				10		2:00						
11	191	192	195		218	219		242				11		2:30						
12	192	193	196		219	220		243				12		2:50						
13	193	194	197		220	221		244				13		3:10					WIND 10-15 MPH ↓	
14	194	195	198		221	222		245				14		3:30						
15	195	196	199		222	223		246				15		3:50						
16	196	197	200		223	224		247				16		4:10						
17																				
18																				
19																				
20																				

GEOPHONE TYPE FU-23B FREQ. 7.5 Hz. GEO. PER PATCH 36 PATCH PATTERN 3x18 @ 600' GEO. INTERVAL VADIS SOURCE PATTERN 5x16 @ 792
 AMPLIFIER TYPE IFP TAPE TRANSPORT MTM-12 SHOTS / SWEEPS / DROPS PER POINT 16 TOTAL FOR DAY 5x256
 STATION INTERVAL 440 SPREAD DIMENSIONS 0-1320-22000 CDP STACK 24 TOTAL SET-UPS 16 SURFACE COV. 1.333 Miles
 RECORD FILTER ALIAS 3125 Hz SAMPLE RATE 8 MS. RECORD LENGTH 50sec SWEEP NUMBER _____ SWEEP FREQ. 8-3242 @ 20000
 DEPART CAMP _____ ARRIVE FIELD _____ DEPART FIELD _____ ARRIVE CAMP _____ TOTAL HOURS _____
 BREAKDOWN HOURS _____ 60 ~ NOTCH - In _____ Out OBSERVER SUNTJENS PAGE 20 of 39

CLIENT COCORP
 PROSPECT WIND RIVER UPLIFT PROVINCE

PETTY-RAY GEOPHYSICAL INC.

PAGE **21**

LINE NO. 1 DIR. SW to NE
 DATE 9 d 11 m 76 y CREW NO. 6841

COUNTY _____ (STATE) WYOMING
 DIGITAL REEL NUMBER 10

OBSERVERS REPORT

WEATHER CLEAR-COOL TERRAIN ACROSS COUNTRY

Form # PRG 105

STATIONS	DIG. REC. NO.	SHOT/SWEEP/DROP/POINT	RECORD (split where applicable)				TAPE NUMBER		DEAD TRACE NO.	Traces on An. Tape or Correlator Display	CDP SWITCH POS.	No. of Vib. / Thumps.		TIME of SHOT	TAPE SPEED	AMP. INITIAL GAIN	AMP. FINAL GAIN	Drag Offset	REMARKS
			Tr. 1	Tr. 24	Tr. 25	Tr. 48	DIGITAL	ANALOG				Charge	Depth						
	197	198	201		224	225		248	10		17	5		9:10					WIND 0-5 MPH
	198	199	202		225	226		249	↓		18	↓		9:35					
	199	200	203		226	227		250			19			9:55					
	200	201	204		227	228		251			20			10:20					
	201	202	205		228	229		252			21			10:40					
	202	203	206		229	230		253			22			11:00					
7	EOF		END OF TAPE REEL																
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			

GEOPHONE TYPE EV-22B FREQ. 7.5 Hz. GEO. PER PATCH 36 PATCH PATTERN 2x18 @ 600' GEO. INTERVAL VADIS SOURCE PATTERN 5x16 @ 792
 AMPLIFIER TYPE JEP TAPE TRANSPORT MTM-12 SHOTS / SWEEPS / DROPS PER POINT 36 TOTAL FOR DAY _____
 STATION INTERVAL 440 SPREAD DIMENSIONS 0-1320-22000 CDP STACK 24 TOTAL SET-UPS _____ SURFACE COV. _____ Miles
 RECORD FILTER ALIAS 31.25 Hz SAMPLE RATE 8MS. RECORD LENGTH 50 sec. SWEEP NUMBER _____ SWEEP FREQ. 8.32 Hz @ 20 sec.
 DEPART CAMP _____ ARRIVE FIELD _____ DEPART FIELD _____ ARRIVE CAMP _____ TOTAL HOURS _____
 BREAKDOWN HOURS _____ 60 ~ NOTCH - In _____ Out OBSERVER SUNTJENS PAGE 21 of 39

CLIENT COCOP
 PROJECT WIND RIVER WAST PROVINCE _____
 COUNTY _____ (STATE) WYOMING
 DIGITAL REEL NUMBER 11

PETTY-RAY GEOPHYSICAL INC.

PAGE 22

LINE NO. 1 DIR. SW to NE
 DATE 9 d 11 m 76 y CREW NO. 684
 WEATHER CLEAN - COOL TERRAIN ACROSS COUNTRY

OBSERVERS REPORT

DIG. REC NO.	SHOT/SWEEP/DROP/POINT	RECORD (split where applicable)							TAPE NUMBER		DEAD TRACE NO.	Traces on An. Tape or Correlator Display	CDP SWITCH POS.	No. of Vib. / Thumps.		TIME of SHOT	TAPE SPEED	AMP. INITIAL GAIN	AMP. FINAL GAIN	Drag Offset	REMARKS
		Tr. 1	Tr. 24	Tr. 25	Tr. 48	DIGITAL	ANALOG	Charge	Depth												
203	204	207		230	231		254	11			23	5		11:20						WIND 5-10 MPH	
204	205	208		231	232		255	↓			24	↓		11:40							
205	206	209		232	233		256				25			12:00							
206	207	210		233	234		257				26			12:20							
207	208	212		234	235		258				27			12:40							
208	209	212		235	236		259				28			1:00							
209	210	213		236	237		260				29			1:20						WIND 10-15 MPH	
210	211	214		237	238		261				30			1:40							
211	212	215		238	239		262				31			2:00							
212	213	216		239	240		263				32			2:20							
213	214	217		240	241		264				33			2:40							
214	215	218		241	242		265				34			3:00						WIND 15-20 MPH	
215	216	219		242	243		266				35			3:20							
216	217	220		243	244		267				36			3:40							
217	218	221		244	245		268				37			4:00							
218	219	222		245	246		269				38			4:20						WIND 10-15 MPH	
219	220	223		245	247		270				39			4:40							
220	221	224		246	248		271				40			5:00							

TELEPHONE TYPE EV-22B FREQ. 25 Hz. GEO. PER PATCH 36 PATCH PATTERN 2x18 @ 600' GEO. INTERVAL VADIS SOURCE PATTERN 5x16 @ 792'
 AMPLIFIER TYPE 1FP TAPE TRANSPORT MTH-12 SHOTS / SWEEPS / DROPS PER POINT 16 TOTAL FOR DAY 5x 384
 STATION INTERVAL 440 SPREAD DIMENSIONS 0-1320-22000 CDP STACK 27 TOTAL SET-UPS 24 SURFACE COV. 2.0 Miles
 RECORD FILTER ALIAS 31.25 SAMPLE RATE 8KHz RECORD LENGTH 50500 SWEEP NUMBER _____ SWEEP FREQ. 8-32 Hz @ 20KHz
 DEPART CAMP _____ ARRIVE FIELD _____ DEPART FIELD _____ ARRIVE CAMP _____ TOTAL HOURS _____
 BREAKDOWN HOURS _____ 60 ~ NOTCH - In _____ Out OBSERVER SUNSTON PAGE 22 of 39

CLIENT COCORP
 PROSPECT WIND RIVER UPLIFT PROVINCE

PETTY-RAY GEOPHYSICAL INC.

PAGE 23

LINE NO. 1 DIR. SW to NE
 DATE 10 d 11 m 76 y CREW NO. 6841

COUNTY FREMONT (STATE) WYOMING
 DIGITAL REEL NUMBER 11

OBSERVERS REPORT

WEATHER CLEAR - COOL TERRAIN ACROSS COUNTRY

Form # PRG 105

Tr. 1	Tr. 24	Tr. 25	Tr. 48	TAPE NUMBER		DEAD TRACE NO.	Traces on An. Tape or Correlator Display	CDP SWITCH POS.	No. of Vib. / Thumps.		TIME of SHOT	TAPE SPEED	AMP. INITIAL GAIN	AMP. FINAL GAIN	Drag Offset	REMARKS
				DIGITAL	ANALOG				Charge	Depth						
221	222	225	272	11				41			10:05					WIND 0-5 MPH
222	223	226	273	↓				42			10:25					WAITING ON TRAIN
223	224	227	274					43			11:10					LEAKAGE CAUSING NOISE ON STN 259
224	225	228	275					44			11:30					VIBS. DRIVING AROUND FENCE
225	226	229	276					45			11:50					REPLACING BAD CABLE (LEAKAGE)
226	227	230	277					46			12:10					
227	228	231	278					47			12:30					
228	229	232	279					48			12:50					
229	230	233	280					49			1:10					GB. MOUNTING UP
FOF				END OF TAPE REEL												

GEOPHONE TYPE EV-22B FREQ. 7.5 Hz. GEO. PER PATCH 36 PATCH PATTERN 2x18 @ 600' GEO. INTERVAL VADIS SOURCE PATTERN 4x16 @ 704'
 AMPLIFIER TYPE IEP TAPE TRANSPORT MTM-12 SHOTS / SWEEPS / DROPS PER POINT 16 TOTAL FOR DAY _____
 STATION INTERVAL 440 SPREAD DIMENSIONS 0-1320-22000 CDP STACK 24 TOTAL SET-UPS _____ SURFACE COV. _____ Miles
 RECORD FILTER ALIAS 31.25HZ SAMPLE RATE 0.75 RECORD LENGTH 50 SEC. SWEEP NUMBER _____ SWEEP FREQ. 8.32 HZ @ 20 SEC.
 DEPART CAMP _____ ARRIVE FIELD _____ DEPART FIELD _____ ARRIVE CAMP _____ TOTAL HOURS _____
 BREAKDOWN HOURS _____ 60 ~ NOTCH - In _____ Out OBSERVER SUNTJENS PAGE 23 of 39

CLIENT CO CORP
 PROJECT WIND RIVER HAWK PROVINCE _____
 COUNTY FREMONT (STATE) WYOMING
 DIGITAL REEL NUMBER 12

PETTY-RAY GEOPHYSICAL INC.

PAGE **24**

LINE NO. 1 DIR. SW to NE
 DATE 10 d 11 m 76 y CREW NO. 6841

OBSERVERS REPORT

WEATHER CLEAR-COOL TERRAIN ACROSS COUNTRY

Form # PRG 105

DIG. REC. NO.	SHOT/SWEEP/DROP/POINT	RECORD (split where applicable)						TAPE NUMBER		DEAD TRACE NO.	Traces on An. Tape or Correlator Display	CDP SWITCH POS.	No. of Vib. / Thumps.		TIME of SHOT	TAPE SPEED	AMP. INITIAL GAIN	AMP. FINAL GAIN	Drag Offset	REMARKS	
		Tr. 1		Tr. 24	Tr. 25		Tr. 48	DIGITAL	ANALOG				Charge	Depth							
1	229	230	233			256	257		280	12		49	4		1:10					WIND 5-10 MPH	
2	230	231	234			257	258		281	↓		13	5		3:00					O.B. MOVING UP	
3	231	232	235			258	259		282			14	↓		3:20					WIND 10-15 MPH	
4	232	233	236			259	260		283			15			3:40						
5	233	234	238			260	261		284			16			4:00					WIND 15-20 MPH	
6	234	235	238			261	262		285			17			4:20						
7	235	236	239			262	263		286			18			4:40						
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					
16																					
17																					
18																					
19																					
20																					

GEOPHONE TYPE EV-22B FREQ. 7.5 Hz. GEO. PER PATCH 36 PATCH PATTERN 2X18@600 GEO. INTERVAL VADIS SOURCE PATTERN 5X16@792'
 AMPLIFIER TYPE IFP TAPE TRANSPORT HTH-12 SHOTS / SWEEPS / DROPS PER POINT 16 TOTAL FOR DAY 5X240
 STATION INTERVAL 440' SPREAD DIMENSIONS 0-1320-22000 CDP STACK 24 TOTAL SET-UPS 15 SURFACE COV. 1.250 Miles
 RECORD FILTER ALIAS-31.25 SAMPLE RATE 8MS RECORD LENGTH 50 sec. SWEEP NUMBER _____ SWEEP FREQ. 8-32Hz@20520.
 DEPART CAMP _____ ARRIVE FIELD _____ DEPART FIELD _____ ARRIVE CAMP _____ TOTAL HOURS _____
 BREAKDOWN HOURS _____ 60 ~ NOTCH - In _____ Out OBSERVER SUNTJEK PAGE 24 of 39

CLIENT COCORP
 PROSPECT Wind River W PROVINCE WYOMING

PETTY-RAY GEOPHYSICAL INC.

PAGE **25**

LINE NO. 1 DIR. SW to NE
 DATE 11 d 11 m 76 y CREW NO. 6841

COUNTY _____ (STATE) WYOMING
 DIGITAL REEL NUMBER 12

OBSERVERS REPORT

WEATHER CLOUD - COLD TERRAIN ACROSS COUNTRY

Form #PRG 105

DIG. REC. NO.	SHOT/SWEEP/DROP/POINT	RECORD (split where applicable)						TAPE NUMBER		DEAD TRACE NO.	Traces on An. Tape or Correlator Display	CDP SWITCH POS	No. of Vibs. / Thumps		TIME of SHOT	TAPE SPEED	AMP. INITIAL GAIN	AMP. FINAL GAIN	Drag Offset	REMARKS
		Tr. 1	Tr. 24	Tr. 25	Tr. 48	DIGITAL	ANALOG	Charge	Depth											
1	236	237	240		263	264		287	12		19	5		9:10					WIND 5-10 MPH	
2	237	238	241		264	265		288	↓		20	↓		9:30					STN # 282 NOISY (LARGE POWER LINE)	
3	238	239	242		265	266		289			21			9:50						
4	239	240	243		266	267		290			22			10:10						
5	240	241	244		267	268		291			23			10:35						
6	241	242	245		268	269		292			24			10:55						
7	242	243	246		269	270		293			25			11:15						
8	243	244	247		270	271		294			26			11:35						
9	244	245	248		271	272		295			27			11:55						
10	245	246	249		272	273		296			28			12:15						
11	246	247	250		273	274		297			29			12:35					OFFSET 205' NW OF LINE	
12	247	248	251		274	275		298			30			12:55					OFFSET 460' N.W. OF LINE	
13	248	249	252		275	276		299			31			1:15					OFFSET 640' N.W. OF LINE	
14	249	250	253		276	277		300			32			1:35					OFFSET 890' N.W. OF LINE	
15	250	251	254		277	278		301			33			1:55					OFFSET 1080' NW OF LINE	
16	251	252	255		278	279		302			34			2:15					OFFSET 1720' N.W. OF LINE	
17	252	253	256		279	280		303			35			2:35					OFFSET 864' N.W. OF LINE	
18	253	254	257		280	281		304			36			2:55					OFFSET 1010' N.W. OF LINE	
19	254	255	258		281	282		305			37			3:15					OFFSET 1120' N.W. OF LINE	
20	999	ALL ONES	(20 SEC.)						END OF TAPE REEL.											

GEOPHONE TYPE EV-22B FREQ. 7.5 Hz. GEO. PER PATCH 36 PATCH PATTERN 2x18 @ 600 GEO. INTERVAL VARIABLE SOURCE PATTERN 5x16 @ 792'

AMPLIFIER TYPE IFP TAPE TRANSPORT MTH-12 SHOTS / SWEEPS / DROPS PER POINT 16 TOTAL FOR DAY _____

STATION INTERVAL 440 SPREAD DIMENSIONS 0-1320-22000 CDP STACK 24 TOTAL SET-UPS _____ SURFACE COV. _____ Miles

RECORD FILTER ALIAS 31.25 SAMPLE RATE 8MS RECORD LENGTH 50 SEC SWEEP NUMBER _____ SWEEP FREQ. 8-32 HZ @ 20 SEC.

DEPART CAMP _____ ARRIVE FIELD _____ DEPART FIELD _____ ARRIVE CAMP _____ TOTAL HOURS _____

BREAKDOWN HOURS _____ 60 ~ NOTCH - In _____ Out _____ OBSERVER SUNTHENS PAGE **25** of **39**

CLIENT COCORP
 PROSPECT WIND RIVER PROVINCE _____
 COUNTY _____ (STATE) WYOMING
 DIGITAL REEL NUMBER 13

PETTY-RAY GEOPHYSICAL INC.

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 P.

LINE NO. 1 DIR. SW to NE
 DATE 11 d 11 m 76 y CREW NO. 6841

OBSERVERS REPORT

WEATHER CLEAR-COOL TERRAIN Across Country

Form # PRG 105

DIG-REC NO.	SHOT/SWEEP/DROP/POINT	RECORD (split where applicable)						TAPE NUMBER		DEAD TRACE NO.	Traces on An. Tape or Correlator Display	CDP SWITCH POS.	No. of Vib. / Thumps		TIME of SHOT	TAPE SPEED	AMP. INITIAL GAIN	AMP. FINAL GAIN	Drag Offset	REMARKS
		Tr. 1	Tr. 24	Tr. 25	Tr. 48	DIGITAL	ANALOG	Charge	Depth											
1	900	ALL ONES (20 sec. Rec)						13					5							WIND 0-5 MPH
2	255	256	259		282	283	306	↓			38	↓		3:35					OFFSET 1000' NW OF LINE	
3	256	257	260		283	284	307				39			3:55					OFFSET 825' NW OF LINE	
4	257	258	261		284	285	308				40			4:15					OFFSET 580' NW OF LINE	
5	258	259	262		285	286	309				41			4:35					OFFSET 150' NW OF LINE	
6	259	260	263		286	287	310				42			4:55						
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				

GEOPHONE TYPE KU-22B FREQ. 7.5 Hz. GEO. PER PATCH 32 PATCH PATTERN 3X16 @ 600 GEO. INTERVAL Varies SOURCE PATTERN 5X16 @ 792'
 AMPLIFIER TYPE IFP TAPE TRANSPORT MTH-12 SHOTS / SWEEPS / DROPS PER POINT 36 TOTAL FOR DAY 5X384
 STATION INTERVAL 440 SPREAD DIMENSIONS 0-1320 - 22000 CDP STACK 24 TOTAL SET-UPS 24 SURFACE COV. 2.0 Miles
 RECORD FILTER Alias 3/25 SAMPLE RATE 0.15 RECORD LENGTH 50 sec. SWEEP NUMBER _____ SWEEP FREQ. 8-3242
 DEPART CAMP _____ ARRIVE FIELD _____ DEPART FIELD _____ ARRIVE CAMP _____ TOTAL HOURS _____
 BREAKDOWN HOURS _____ 60 ~ NOTCH - In _____ Out OBSERVER SANTIENS PAGE 26 of 39

CLIENT COCORP
 PROSPECT Wind River Uplift PROVINCE _____
 COUNTY FREMONT (STATE) WYOMING
 DIGITAL REEL NUMBER 13

PETTY-RAY GEOPHYSICAL INC.

LINE NO. 1 DIR. SW to NE
 DATE 12 d 11 m 76 y CREW NO. 6841

OBSERVERS REPORT

WEATHER CLOUDY-COLD TERRAIN Across Country

Form # PRG 105

DIG-REC NO.	SHOT/SWEEP/DROP/POINT	RECORD (split where applicable) STATIONS						TAPE NUMBER		DEAD TRACE NO.	Traces on An. Tape or Correlator Display	CDP SWITCH POS.	No. of Vib. / Thumps		TIME of SHOT	TAPE SPEED	AMP. INITIAL GAIN	AMP. FINAL GAIN	Drag Offset	REMARKS
		Tr. 1	Tr. 24	Tr. 25	Tr. 48	DIGITAL	ANALOG	Charge	Depth											
1	260	261	264		287	288		311	13			43	4	9:20					WIND 15-20 MPH	
2	261	262	265		288	289		312	↓			44	5	9:40					REPAIRING CABLE WITH LEAKAGE	
3	262	263	266		289	290		313				45	↓	10:40					WAITING ON TRAIN	
4	263	264	267		290	291		314				46	4	11:00					WIND 20-25 MPH	
5	264	265	268		291	292		315				47	↓	11:20						
6	265	266	269		292	293		316				48		11:40						
7	266	267	270		293	294		317				49		12:05						
8	267	268	271		294	295		318		48		50		12:25					WIND 25 MPH PLUS	
9																			TO WINDY TO WORK	
10																			DOING VST	
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				

GEOPHONE TYPE EV-22B FREQ. 7.5 Hz. GEO. PER PATCH 32 PATCH PATTERN 2X16 @ 600' GEO. INTERVAL VARI SOURCE PATTERN 5X16 @ 792'
 AMPLIFIER TYPE IFP TAPE TRANSPORT MTM-12 SHOTS / SWEEPS / DROPS PER POINT 16 TOTAL FOR DAY 4X 104
 STATION INTERVAL 440 SPREAD DIMENSIONS 0-1320-22000 CDP STACK 24 TOTAL SET-UPS 8 SURFACE COV. .666 Miles
 RECORD FILTER Alias-31.25 SAMPLE RATE 8MS RECORD LENGTH 50 SEC. SWEEP NUMBER _____ SWEEP FREQ. 8-32 Hz @ 20000
 DEPART CAMP _____ ARRIVE FIELD _____ DEPART FIELD _____ ARRIVE CAMP _____ TOTAL HOURS _____
 BREAKDOWN HOURS _____ 60 ~ NOTCH - In _____ Out OBSERVER SUNTIENS PAGE 27 of 39

CLIENT Cocorp

PROSPECT WIND RIVER W. PLAT PROVINCE _____

COUNTY FREMONT (STATE) WYOMING

DIGITAL REEL NUMBER 13

PETTY-RAY GEOPHYSICAL INC.

OBSERVERS REPORT

LINE NO. 1 DIR. SW to NE

DATE 15 d 11 m 76 y CREW NO. 6841

WEATHER CLEAR-COLD TERRAIN ACROSS COUNTRY

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Form # PRG 105

	DIG-REC-NO	SHOT/SWEEP/DROP/POINT	RECORD (split where applicable)					TAPE NUMBER		DEAD TRACE NO.	Traces on An. Tape or Correlator Display	CDP SWITCH POS.	No. of Vibrs. / Thumps.		TIME of SHOT	TAPE SPEED	AMP. INITIAL GAIN	AMP. FINAL GAIN	Drag Offset	REMARKS
			Tr. 1	Tr. 24	Tr. 25	Tr. 48	DIGITAL	ANALOG	Charge				Depth							
1	268	269	272		295	296		319	13			4	4	10:30					WIND 15-20 MPH STNS 313 thru 318 Noisy (WIND BLOWING SNOW FENCE STNS 319 & 320 Noisy (RIVER) WAITING ON TRAIN WHICH IS WORKING ON TRACK SHUTTING DOWN WIND HAS RISEN 30 MPH PLUS.	
2																				
3																				
4																				
5														1:30						
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				

GEOPHONE TYPE EV-22A FREQ. 7.5 Hz. GEO. PER PATCH 32 PATCH PATTERN 2x16 @ 600' GEO. INTERVAL VADIS SOURCE PATTERN 4x16 @ 704'

AMPLIFIER TYPE JEP TAPE TRANSPORT MTH-12 SHOTS / SWEEPS / DROPS PER POINT 16 TOTAL FOR DAY 4x16

STATION INTERVAL 440' SPREAD DIMENSIONS 0-1320-22000 CDP STACK _____ TOTAL SET-UPS 1 SURFACE COV. .083 Miles

RECORD FILTER ANOS - 21-25 SAMPLE RATE 875 RECORD LENGTH 50 SEC. SWEEP NUMBER _____ SWEEP FREQ. 8-32 Hz @ 20 SEC.

DEPART CAMP _____ ARRIVE FIELD _____ DEPART FIELD _____ ARRIVE CAMP _____ TOTAL HOURS _____

BREAKDOWN HOURS _____ 60 ~ NOTCH - In _____ Out

OBSERVER SANTJEUS

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CLIENT COCORP
 PROSPECT WIND RIVER MOUNTAIN PROVINCE
 COUNTY _____ (STATE) WYOMING
 DIGITAL REEL NUMBER 13

PETTY-RAY GEOPHYSICAL INC.

LINE NO. 1 DIR. SW to NE
 DATE 16 d 11 m 76 y CREW NO. 6841
 WEATHER CLEAR-COOL TERRAIN ACROSS COUNTRY

OBSERVERS REPORT

Form # PRG 105

DIG. REC. NO.	SHOT / SWEEP / DROP / POINT	RECORD (split where applicable)					STATIONS		TAPE NUMBER		DEAD TRACE NO.	Traces on An. Tape or Correlator Display	CDP SWITCH POS.	No. of Vib. / Thumps.		TIME of SHOT	TAPE SPEED	AMP. INITIAL GAIN	AMP. FINAL GAIN	Drag Offset	REMARKS
		Tr. 1	Tr. 24	Tr. 25	Tr. 48	DIGITAL	ANALOG	Charge	Depth												
1	269	270	273	296	297	320	13					5	5		9:40					WIND 5-10 MPH OFFSET 66' NW OF LINE	
2	270	271	274	297	298	321	↓					6	↓		10:20					STNS. 319 & 320 NO. 54 (RIVER). STNS-313 thru 318 NO. 54 (SNOW FENCE) WAITING ON TRAIN	
3	271	272	275	298	299	322						7			10:40						
4	272	273	276	299	300	323						8			11:00					300' OFFSET 54' SE OF LINE	
5	273	274	277	300	301	324						9			11:20					OFFSET 350' SE OF LINE	
6	274	275	278	301	302	325						10			11:40					OFFSET 705' SE OF LINE WIND 10-15 MPH	
7	275	276	279	302	303	326						11			12:00					OFFSET 645' SE OF LINE	
8	276	277	280	303	304	327						12			12:20					VEHICLE ON LINE OFFSET 590' SE OF LINE TAPES TRANSPORT TROUBLE	
9	277	278	281	304	305	328						13	15		12:40					OFFSET 570' SE OF LINE WIND 15-20 MPH	
10	278	279	282	305	306	329						14	15		2:00					OFFSET 540' SE OF LINE	
11	279	280	283	306	307	330						15			2:20					OFFSET 460' SE OF LINE	
12	280	281	284	307	308	331						16			3:00					OFFSET 265' SE OF LINE	
13	EOE																				
14															3:30					2 VIBS. DOWN	
15																					
16																					
17																					
18																					DOWN 0.5 HRS.
19																					
20																					

GEOPHONE TYPE EU-22B FREQ. 25 HZ. GEO. PER PATCH 32 PATCH PATTERN 2x16 @ 600' GEO. INTERVAL VARIIS SOURCE PATTERN 5x16 @ 792
 AMPLIFIER TYPE IFP TAPE TRANSPORT MTM-12 SHOTS / SWEEPS / DROPS PER POINT 16 TOTAL FOR DAY 4X
 STATION INTERVAL 440' SPREAD DIMENSIONS 0-1320-22000 CDP STACK 24 TOTAL SET-UPS _____ SURFACE COV. _____ Miles
 RECORD FILTER ALIAS 21.25 SAMPLE RATE 8MS. RECORD LENGTH 50 SEC. SWEEP NUMBER _____ SWEEP FREQ. 3-3242 @ 20000
 DEPART CAMP _____ ARRIVE FIELD _____ DEPART FIELD _____ ARRIVE CAMP _____ TOTAL HOURS _____
 BREAKDOWN HOURS 5 HRS 60 ~ NOTCH - In _____ Out OBSERVER SUNTIENS PAGE 29 of 39

CLIENT COCORP
 PROSPECT WIND RIVER UPLIFT PROVINCE

PETTY-RAY GEOPHYSICAL INC.

LINE NO. 1 DIR. SW to NE
 DATE 18 d 11 m 76 y CREW NO. 6841

COUNTY FREMONT (STATE) WYOMING
 DIGITAL REEL NUMBER 14

OBSERVERS REPORT

WEATHER CLEAR - COOL TERRAIN ACROSS COUNTRY

Form # PRG 105

	DIG. REC. NO.	SHOT/SWEEP/DROP/POINT	RECORD (split where applicable)					TAPE NUMBER		DEAD TRACE NO.	Traces on An. Tape or Correlator Display	CDP SWITCH POS.	No. of Vib. / Thumos.		TIME of SHOT	TAPE SPEED	AMP. INITIAL GAIN	AMP. FINAL GAIN	Drag Offset	REMARKS
			Tr. 1	Tr. 24	Tr. 25	Tr. 48	DIGITAL	ANALOG	Charge				Depth							
1	281	282	285		309	310		332	14			17	4	9:15					WIND 5-10 MPH REC # 900 - 20 SEC. ALL ONES	
2	282	283	286		310	311		333	↓			18	↓	9:35					OFFSET 250' NW OF LINE STNS 313 TO 318 NOISY (SNOW FENCE BLOWING)	
3	283	284	287		311	312		334				19		9:55					OFFSET 190' NW OF LINE STNS 319 & 320 NOISY (RIVER)	
4	284	285	288		312	313		335				20		10:15					OFFSET 50' NW OF LINE	
5	285	286	289		313	314		336				21		10:35					WIND 10-15 MPH	
6	286	287	290		314	315		337				22		10:50					STNS 304 & 305 NOISY (RAILROAD CREW)	
7	287	288	291		315	316		338				23		11:50					WAITING ON RAILROAD CREW	
8	288	289	292		316	317		339				24		12:10					WIND 15-20 MPH	
9	289	290	293		317	318		340				25		12:30						
10	290	291	294		318	319		341				26		12:50					STN # 293 OFFSET 150' NE OF LINE	
11	291	292	295		319	320		342				27		1:10					WIND 20-25 MPH	
12	292	293	296		320	321		343	- SKIP -			28		1:50					VIBS. DRIVING AROUND RAILROAD ETC.	
13																			WAITING ON TRAIN	
14														2:10					TOO WINDY TO CONTINUE	
15																				
16																			V.P. 293 SKIP DUE TO	
17																			RAILROAD & DRAW	
18																				
19																				
20																				

GEOPHONE TYPE EU-22B FREQ. 7.5 Hz. GEO. PER PATCH 32 PATCH PATTERN 2X16 @ 600' GEO. INTERVAL VARIOUS SOURCE PATTERN 4X32 @ 704'
 AMPLIFIER TYPE IFP TAPE TRANSPORT MTM-12 SHOTS / SWEEPS / DROPS PER POINT 16 TOTAL FOR DAY 4X 192
 STATION INTERVAL 440' SPREAD DIMENSIONS 0-1320-22000 CDP STACK 24 TOTAL SET-UPS 12 SURFACE COV. 1.0 Miles
 RECORD FILTER ALIAS-31.25 SAMPLE RATE 8MS RECORD LENGTH 50 SEC. SWEEP NUMBER _____ SWEEP FREQ. 8-32 Hz @ 20 SEC.
 DEPART CAMP _____ ARRIVE FIELD _____ DEPART FIELD _____ ARRIVE CAMP _____ TOTAL HOURS _____
 BREAKDOWN HOURS _____ 60 ~ NOTCH - In _____ Out OBSERVER SUNTJENS PAGE 30 of 39

CLIENT Cocorp

PROSPECT Wind River PROVINCE

COUNTY FREMONT (STATE) WYOMING

DIGITAL REEL NUMBER 14

PETTY-RAY GEOPHYSICAL INC.

OBSERVERS REPORT

LINE NO. 1 DIR. SW to NE

DATE 19 d 11 m 76 y CREW NO. 6841

WEATHER CLEAR-COOL TERRAIN ACROSS COUNTRY

31

Form #PRG 105

	DIG. REC. NO.	SHOT/SWEEP/DROP/POINT	RECORD (split where applicable)				STATIONS		TAPE NUMBER		DEAD TRACE NO.	Traces on An. Tape or Correlator Display	CDP SWITCH POS.	No. of Vib. / Thumps.		TIME of SHOT	TAPE SPEED	AMP. INITIAL GAIN	AMP. FINAL GAIN	Drag Offset	REMARKS
			Tr. 1	Tr. 24	Tr. 25	Tr. 48	DIGITAL	ANALOG	Charge	Depth											
1	292	294	297	320	327		344	14				29	4		9:40					WIND 5-10 MPH STNS 319 & 320 Noisy (RIVER)	
2	293	295	298	327	322		345	↓				30	↓		10:00					STNS 313 to 318 Noisy (WIND BLOWING SW TO SE) WIND 10-15 MPH	
3	294	296	299	322	323		346					31			11:10					REPAIRING CABLE WITH LEAKAGE WIND 15-20 MPH	
4															11:40					WIND 25 MPH PLUS	
5																				UNABLE TO CONTINUE	
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					
16																					
17																					
18																					
19																					
20																					

GEOPHONE TYPE EU-22B FREQ. 9.5 Hz. GEO. PER PATCH 32 PATCH PATTERN 2x16 @ 600 GEO. INTERVAL VARS SOURCE PATTERN 4x16 @ 704'

AMPLIFIER TYPE 1FP TAPE TRANSPORT MTM-12 SHOTS / SWEEPS / DROPS PER POINT 16 TOTAL FOR DAY 4x48

STATION INTERVAL 440 SPREAD DIMENSIONS 0-1320-22000 CDP STACK 24 TOTAL SET-UPS 3 SURFACE COV. .25 Miles

RECORD FILTER Alias - 31.25 SAMPLE RATE 8 MS. RECORD LENGTH 50 SEC. SWEEP NUMBER _____ SWEEP FREQ. 8-3242 @ 20 SEC.

DEPART CAMP _____ ARRIVE FIELD _____ DEPART FIELD _____ ARRIVE CAMP _____ TOTAL HOURS _____

BREAKDOWN HOURS _____ 60 ~ NOTCH - In _____ Out _____ OBSERVER SUNSTONS PAGE 31 of 39

CLIENT COCOP
 PROSPECT Wind River Basin PROVINCE _____
 COUNTY FREMONT (STATE) WYOMING
 DIGITAL REEL NUMBER 14

PETTY-RAY GEOPHYSICAL INC.

LINE NO. 1 DIR. SW to NE
 DATE 30 d 11 m 76 y CREW NO. 6841

OBSERVERS REPORT

WEATHER CLEAR-COOL TERRAIN ACROSS COUNTRY

Form # PRG 105

DIG. REC. NO.	SHOT/SWEEP/DROP/POINT	RECORD (split where applicable)						TAPE NUMBER		DEAD TRACE NO.	Traces on An. Tape or Correlator Display	CDP SWITCH POS.	No. of Vib. / Thumos.		TIME of SHOT	TAPE SPEED	AMP. INITIAL GAIN	AMP. FINAL GAIN	Drag Offset	REMARKS
		Tr. 1	Tr. 24	Tr. 25	Tr. 48	DIGITAL	ANALOG	Charge	Depth											
1	295	297	300	323	324		347	14			32	5		9:00					WIND 5-10 MPH	
2	296	298	301	324	325		348	↓			33	↓		9:40					STNS 313 to 318 Noisy (SNOW FENCE)	
3	297	299	302	325	326		349				34			10:00					STACKED ON LAST HALF (FENCE)	
4	298	300	303	326	327		350				35			10:20					STNS 319 & 320 Noisy (RIVER)	
5	299	301	304	327	328		351				36			10:40					LEAKAGE PROBLEMS IN CABLES	
6	300	302	305	328	329		352				37			11:00						
7	301	303	306	329	330		353				38			11:20						
8	302	304	307	330	331		354				39			11:40						
9	303	305	308	331	332		355				40			12:00						
10	304	306	309	332	333		356				41			12:20					WIND 10-15 MPH	
11	305	307	310	333	334		357				42			12:40					REPLACING BAD CABLE	
12	306	308	311	334	335		358				43			1:30						
13																			END OF TAPE REEL	
14																				
15																				
16																				
17																				
18																				
19																				
20																				

GEOPHONE TYPE EU-22B FREQ. 75 Hz. GEO. PER PATCH 32 PATCH PATTERN 2x16 @ 600' GEO. INTERVAL VADIS SOURCE PATTERN 5x16 @ 292'
 AMPLIFIER TYPE IFP TAPE TRANSPORT HTH-12 SHOTS / SWEEPS / DROPS PER POINT 16 TOTAL FOR DAY _____
 STATION INTERVAL 440' SPREAD DIMENSIONS 0-1320-2200 CDP STACK 34 TOTAL SET-UPS _____ SURFACE COV. _____ Miles
 RECORD FILTER ALIAS-31-25 SAMPLE RATE 8175 RECORD LENGTH 50 sec. SWEEP NUMBER _____ SWEEP FREQ. 8-3242 @ 20500
 DEPART CAMP _____ ARRIVE FIELD _____ DEPART FIELD _____ ARRIVE CAMP _____ TOTAL HOURS _____
 BREAKDOWN HOURS _____ 60 ~ NOTCH - In _____ Out OBSERVER SUNTJEWS PAGE 32 of 39

CLIENT COCOAP
 PROJECT WIND RIVER W/NET PROVINCE
 COUNTY FREMONT (STATE) WYOMING
 DIGITAL REEL NUMBER 15

PETTY-RAY GEOPHYSICAL INC.

LINE NO. 1 DIR. SW to NE

DATE 20 d 11 m 76 y CREW NO. 6841

OBSERVERS REPORT

WEATHER CLEAR-COOL TERRAIN ACROSS COUNTRY

DIG. REC. NO.	SHOT/SWEEP/DROP/POINT	RECORD (split where applicable)						TAPE NUMBER		DEAD TRACE NO.	Traces on An. Tape or Correlator Display	CDP SWITCH POS.	No. of Vib. / Thumps.		TIME of SHOT	TAPE SPEED	AMP. INITIAL GAIN	AMP. FINAL GAIN	Drag Offset	REMARKS
		Tr. 1	Tr. 24	Tr. 25	Tr. 48	DIGITAL	ANALOG	Charge	Depth											
307	309	312		335	336		359	15			44	5		1:50					WIND 10-15 MPH STNS 313 to 318 Noisy (SNOW FENCES) STNS 319 & 320 Noisy (RIVER)	
309	310	313		336	337		360	↓			45	↓		2:10					NOTE Reel # 308 N.G. BAD	
310	311	314		337	338		361				46			2:30					SPOT ON TAP	
311	312	315		338	339		362				47			2:50					WIND 15-20 MPH	
312	313	316		339	340		363				48			3:10						
313	314	317		340	341		364				49			3:30					POING VST	

PHONE TYPE EV-22B FREQ. 7.5 Hz. GEO. PER PATCH 32 PATCH PATTERN 2X16 @ 600' GEO. INTERVAL VA015 SOURCE PATTERN 5X16 @ 792'
 AMPLIFIER TYPE 1FP TAPE TRANSPORT MTM-12 SHOTS / SWEEPS / DROPS PER POINT 16 TOTAL FOR DAY 5X 288
 TATION INTERVAL 440 SPREAD DIMENSIONS 0-1320-22000 CDP STACK 24 TOTAL SET-UPS 18 SURFACE COV. 1.5 Miles
 RECORD FILTER ALIAS 3125 SAMPLE RATE 8 MS. RECORD LENGTH 50 SEC SWEEP NUMBER _____ SWEEP FREQ. 8-32 Hz @ 20 SEC
 DEPART CAMP _____ ARRIVE FIELD _____ DEPART FIELD _____ ARRIVE CAMP _____ TOTAL HOURS _____
 BREAKDOWN HOURS _____ 60 ~ NOTCH - In _____ Out OBSERVER SUNTJENS PAGE 33 of 39

CLIENT COCORP
 PROJECT Wind River West PROVINCE
 COUNTY FREMONT (STATE) WYOMING
 DIGITAL REEL NUMBER 15

PETTY-RAY GEOPHYSICAL INC.

LINE NO. 1 DIR. SW to NE
 DATE 21 d 11 m 76 y CREW NO. 6841

OBSERVERS REPORT

WEATHER CLEAR-COOL TERRAIN ACROSS COUNTRY

DIG. REC. NO.	SHOT/SWEEP/DROP/POINT	RECORD (split where applicable) STATIONS						TAPE NUMBER		DEAD TRACE NO.	Traces on An. Tape or Correlator Display	CDP SWITCH POS.	No. of Vib. / Thumps.		TIME of SHOT	TAPE SPEED	AMP. INITIAL GAIN	AMP. FINAL GAIN	Drag Offset	REMARKS
		Tr. 1		Tr. 24	Tr. 25		Tr. 48	DIGITAL	ANALOG				Charge	Depth						
314	315	318		341	342		365	15			2	5		9:45					WIND 5-10 MPH	
315	316	319		342	343		366	↓			3	↓		10:20					REPLACING BAD CABLE	
316	317	320		343	344		367				4			10:40					REPLACING BAD CABLE (LEAKAGE)	
317	318	321		344	345		368				5			11:00						
SKIP	319	322		345	346		369				6								STACKED ON FIRST HALF (RIVER)	
SKIP	320	323		346	347		370				7								VIBS. DRIVING AROUND	
SKIP	321	324		347	348		371				8								SKIPS (RIVER BOTTOM)	
SKIP	322	325		348	349		372				9								TOO SOFT TO VIB.	
SKIP	323	326		349	350		373				10									
318	324	327		350	351		374				11			12:05					OFFSET 280' NW OF LINE	
319	325	328		351	352		375				12			12:25					OFFSET 335' NW OF LINE	
320	326	329		352	353		376				13			12:45					STACKED ON FIRST HALF (RAILROAD)	
321	327	330		353	354		377				14			1:05					OFFSET 406' NW OF LINE	
322	328	331		354	355		378				15			1:25					OFFSET 500' SE OF LINE	
323	329	332		355	356		379				16			1:45					OFFSET 420' SE OF LINE	
324	330	333		356	357		380				17			2:05					OFFSET 165' SE OF LINE	
325	331	334		357	358		381				18			2:25					STACKED ON FIRST HALF (STREAM)	
326	332	335		358	359		382				19			2:45					OFFSET 80' NW OF LINE	
327	333	336		359	360		383				20			3:05					WIND 10-15 MPH	
328	334	337		360	361		384				21			3:25					OFFSET 520' SE OF LINE	

PHONE TYPE EV-22B FREQ. 7.5 Hz. GEO. PER PATCH 32 PATCH PATTERN 2X16 @ 600' GEO. INTERVAL VA015 SOURCE PATTERN 5X16
 AMPLIFIER TYPE 1FP TAPE TRANSPORT MTM-12 SHOTS / SWEEPS / DROPS PER POINT 16 TOTAL FOR DAY _____
 LOCATION INTERVAL 440' SPREAD DIMENSIONS 0-1320-22000 CDP STACK 24 TOTAL SET-UPS _____ SURFACE COV. _____ Miles
 RECORD FILTER ALIAS-31.25 SAMPLE RATE 8MS RECORD LENGTH 50 SEC. SWEEP NUMBER _____ SWEEP FREQ. 8-32HZ @ 20 SEC.
 DEPART CAMP _____ ARRIVE FIELD _____ DEPART FIELD _____ ARRIVE CAMP _____ TOTAL HOURS _____
 BREAKDOWN HOURS _____ 60 ~ NOTCH - In _____ Out _____
 OBSERVER SUNTJENS PAGE 34 of 39

CLIENT COCORP
 PROSPECT WIND RIVER VALLEY PROVINCE
 COUNTY FREMONT (STATE) WYOMING
 DIGITAL REEL NUMBER 15

PETTY-RAY GEOPHYSICAL INC.

LINE NO. 1 DIR. SW to NE
 DATE 21 d 11 m 76 y CREW NO. 6841
 WEATHER CLEAR - COLD TERRAIN ACROSS COUNTRY

OBSERVERS REPORT

Form # PRG 105

DIG. REC NO.	SHOT/SWEEP/DROP/POINT	RECORD (split where applicable)						TAPE NUMBER		DEAD TRACE NO.	Traces on An. Tape or Correlator Display	CDP SWITCH POS.	No. of Vib. / Thumps.		TIME of SHOT	TAPE SPEED	AMP. INITIAL GAIN	AMP. FINAL GAIN	Drag Offset	REMARKS
		Tr. 1	Tr. 24	Tr. 25	Tr. 48	DIGITAL	ANALOG	Charge	Depth											
1	329 335	338		361	362		385	15			22	5		3:45					WIND 15-20 MPH	
2	330 336	339		362	363		386	↓	48		23	↓		4:05					OFFSET 67' N.W. OF LINE	
3	999	ALL ONES						END OF TAPE REEL												
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				

GEOPHONE TYPE EV-22B FREQ. 25 Hz. GEO. PER PATCH 32 PATCH PATTERN 2x16 @ 600' GEO. INTERVAL VADIS SOURCE PATTERN 5x16 @ 792'
 AMPLIFIER TYPE 1FP TAPE TRANSPORT HTH-12 SHOTS / SWEEPS / DROPS PER POINT 16 TOTAL FOR DAY 5x ~~272~~ 272
 STATION INTERVAL 480 SPREAD DIMENSIONS 0-1320-2200 CDP STACK 24 TOTAL SET-UPS 22 SURFACE COV. 1.833 Miles
 RECORD FILTER Alias - 31.25 SAMPLE RATE 8MS RECORD LENGTH 50500 SWEEP NUMBER _____ SWEEP FREQ. 8-32 Hz @ 20500
 DEPART CAMP _____ ARRIVE FIELD _____ DEPART FIELD _____ ARRIVE CAMP _____ TOTAL HOURS _____
 BREAKDOWN HOURS _____ 60 ~ NOTCH - In _____ Out OBSERVER SUNTJENS PAGE 35 of 39

CLIENT Coeop
 PROJECT Wood River Valley PROVINCE _____
 COUNTY FREMONT (STATE) WYOMING
 DIGITAL REEL NUMBER 16

PETTY-RAY GEOPHYSICAL INC.

LINE NO. 1 DIR. SW to NE
 DATE 22 d 11 m 76 y CREW NO. 6841
 WEATHER CLEAR-COOL TERRAIN Across Country

OBSERVERS REPORT

36

DIG. REC. NO.	SHOT/SWEEP/DROP/POINT	RECORD (split where applicable)						TAPE NUMBER		DEAD TRACE NO.	Traces on An. Tape or Correlator Display	CDP SWITCH POS.	No. of		TIME of SHOT	TAPE SPEED	AMP. INITIAL GAIN	AMP. FINAL GAIN	Drag Offset	REMARKS
		Tr. 1	Tr. 24	Tr. 25	Tr. 48	DIGITAL	ANALOG	Vibs. Charge	Thumps. Depth											
900	ALL ONZS							16											WIND 15-20 MPH	
331	337	340		363	364			387				24	5	10:00					20 sec REC	
332	338	341		364	365			388				25	↓	10:20					OFFSET 45' NW. OF LINE	
333	339	342		365	366			389				26		10:40						
334	340	343		366	367			390				27		11:00						
335	341	344		367	368			391				28		11:45					REPAIRING BAN CABLE	
336	342	345		368	369			392				29		12:05					WIND 20-25 MPH	
337	343	346		369	370			393				30		12:30						
338	344	347		370	371			394				31		12:50					REPLANTING NOISY STNS.	
340	345	348		371	372			395				32		1:40					* RER.# 339 NG. BAD TAPE TAPE TRANSPORT PROBLEMS	

PHONE TYPE EV-22B FREQ. 7.5 Hz. GEO. PER PATCH 32 PATCH PATTERN 2x16 @ 600' GEO. INTERVAL 1/2 DIS SOURCE PATTERN 5x16 @ 792'
 AMPLIFIER TYPE IFP TAPE TRANSPORT MTM-12 SHOTS / SWEEPS / DROPS PER POINT 16 TOTAL FOR DAY 5X
 LOCATION INTERVAL 440 SPREAD DIMENSIONS 0-1320-22000 CDP STACK 24 TOTAL SET-UPS 9 SURFACE COV. 0.75 Miles
 RECORD FILTER ALIAS-31.25 SAMPLE RATE 8 MS. RECORD LENGTH 50 sec SWEEP NUMBER _____ SWEEP FREQ. 8.32 Hz @ 20 sec
 DEPART CAMP _____ ARRIVE FIELD _____ DEPART FIELD _____ ARRIVE CAMP _____ TOTAL HOURS _____
 BREAKDOWN HOURS _____ 60 ~ NOTCH - In _____ Out OBSERVER SUNTJEALS PAGE 36 of 39

CLIENT Cocorp

PROSPECT Wind River Plate PROVINCE

COUNTY PAYMONT (STATE) WYOMING

DIGITAL REEL NUMBER 17

PETTY-RAY GEOPHYSICAL INC.

OBSERVERS REPORT

LINE NO. 1 DIR. SW to NE

DATE 23 d 11 m 76 y CREW NO. 6841

WEATHER CLEAR 2004 TERRAIN Across Country

37

Form # PRG 105

	DIG. REC. NO.	SHOT/SWEEP/DROP/POINT	RECORD (split where applicable)					TAPE NUMBER		DEAD TRACE NO.	Traces on An. Tape or Correlator Display	CDP SWITCH POS.	No. of Vib. / Thumps.		TIME of SHOT	TAPE SPEED	AMP. INITIAL GAIN	AMP. FINAL GAIN	Drag Offset	REMARKS
			Tr. 1	Tr. 24	Tr. 25	Tr. 48	DIGITAL	ANALOG	Charge				Depth							
1	341	346	349		372	373		396	17		33	5		11:30					WIND 20-25 MPH	
2	342	347	350		373	374		397	↓		34	↓		12:00					LATE START DUE TO TAPE TRANSPORT PROBLEMS	
3	343	348	351		374	375		398			35			12:50					REPLACING BAD CABLE	
4	344	349	352		375	376		399			36			1:40					WAITING ON TRAIN	
5														2:30					TOO WINDY TO CONTINUE	
6																			WIND 2.5 MPH PLUS	
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																			2 HRS. DOWN TIME	
20																				

GEOPHONE TYPE EU-22B FREQ. 2.5 Hz. GEO. PER PATCH 32 PATCH PATTERN 2x16 @ 600' GEO. INTERVAL VADIS SOURCE PATTERN 5x16 @ 792'

AMPLIFIER TYPE 18P TAPE TRANSPORT MTT-12 SHOTS / SWEEPS / DROPS PER POINT 16 TOTAL FOR DAY 5x 48

STATION INTERVAL 440 SPREAD DIMENSIONS 0-1320-22000 CDP STACK 24 TOTAL SET-UPS 4 SURFACE COV. 333 Miles

RECORD FILTER ALIAS 31.25 SAMPLE RATE 8125 RECORD LENGTH 50 SEC. SWEEP NUMBER _____ SWEEP FREQ. 8-3242 @ 20'

DEPART CAMP _____ ARRIVE FIELD _____ DEPART FIELD _____ ARRIVE CAMP _____ TOTAL HOURS _____

BREAKDOWN HOURS 2 60 ~ NOTCH - In _____ Out OBSERVER SUNTIENS PAGE 37 of 39

CLIENT COCORP
 RESPECT Wind River Valley PROVINCE
 COUNTY _____ (STATE) Wyoming
 DIGITAL REEL NUMBER 17

PETTY-RAY GEOPHYSICAL INC.

LINE NO. 1 DIR. SW to NE

DATE 24 d 11 m 76 y CREW NO. 6841

OBSERVERS REPORT

WEATHER CLEAR - COLD TERRAIN Across Country

DIG. REC. NO.	SHOT/SWEEP/DROP/POINT	RECORD (split where applicable)						TAPE NUMBER		DEAD TRACE NO.	Traces on An. Tape or Correlator Display	CDP SWITCH POS	No. of Vib. / Thumps.		TIME of SHOT	TAPE SPEED	AMP. INITIAL GAIN	AMP. FINAL GAIN	Drag Offset	REMARKS
		Tr. 1	Tr. 24	Tr. 25	Tr. 48	DIGITAL	ANALOG	Charge	Depth											
345	350	353	376	377			400	17			37	5		9:15					WIND 5-10 MPH ↓	
346	351	354	377	378			401	↓			38	↓		9:35						
347	352	355	378	379			402				39			9:55						
348	353	356	379	380			403				40			10:15					WIND 10-15 M.P.H. ↓	
349	354	357	380	381			404				41			10:35						
350	355	358	381	382			405				42			10:55						
351	356	359	382	383			406				43			11:15					STN # 384 NOISY (WIND)	
352	357	360	383	384			407				44			11:35					WIND 15-20 MPH ↓	
353	358	361	384	385			408				45			11:55						
354	359	362	385	386			409				46			12:15						
355	360	363	386	387			410				47			12:35					WIND 20-25 MPH ↓	
356	361	364	387	388			411				48			12:55						
357	362	365	388	389			412				49			1:15						
358	363	366	389	390			413			48	50			1:35					WIND 25 MPH PLUS	
999	ALL ONES							END OF TAPE REEL											TOO WINDY TO CONTINUE DOING VST.	

PHONE TYPE EV-22B FREQ. 9.5 Hz. GEO. PER PATCH 20 PATCH PATTERN 2X16 @ 600' GEO. INTERVAL VADIS SOURCE PATTERN 5X16 @ 792'

AMPLIFIER TYPE 1FP TAPE TRANSPORT 11M-12 SHOTS / SWEEPS / DROPS PER POINT 16 TOTAL FOR DAY 5X 408 214

ATION INTERVAL 440' SPREAD DIMENSIONS 0-1320-22000 CDP STACK 24 TOTAL SET-UPS 14 SURFACE COV. 1.666 Miles

CORD FILTER Alias 31.25 SAMPLE RATE 8MS RECORD LENGTH 50500 SWEEP NUMBER _____ SWEEP FREQ. 8-32 Hz @ 20500

EPART CAMP _____ ARRIVE FIELD _____ DEPART FIELD _____ ARRIVE CAMP _____ TOTAL HOURS _____

REAKDOWN HOURS _____ 60 ~ NOTCH - In _____ Out _____ OBSERVER SUNTJENS PAGE 38 of 39

CLIENT COCORP
 RESPECT WIND RIVER UTAH PROVINCE
 COUNTY FREMONT (STATE) WYOMING
 DIGITAL REEL NUMBER 18

PETTY-RAY GEOPHYSICAL INC.

LINE NO. 501 DIR. SW to NE

DATE 27 d 11 m 76 y CREW NO. 16841

OBSERVERS REPORT

WEATHER CLEAR-VERY COLD TERRAIN CROSS COUNTRY

39

DIG. REC NO.	SHOT/SWEEP/DROP/POINT	RECORD (split where applicable)				STATIONS		TAPE NUMBER		DEAD TRACE NO.	Traces on An. Tape or Correlator Display	CDP SWITCH POS	No. of Vib. / Thumos.		TIME of SHOT	TAPE SPEED	AMP. INITIAL GAIN	AMP. FINAL GAIN	Drag Offset	REMARKS
		Tr. 1	Tr. 24	Tr. 25	Tr. 48	DIGITAL	ANALOG	Charge	Depth											
359	364	367	390	391	44	18					3	5		1:00					WIND 5-10 MPH	
360	365	368	391	392	415	↓					4	↓		1:20					DUE TO SEVERE COLD-TRACES WERE VERY HARD TO START	
361	366	369	392	393	416						5			1:40					LINE LAYING VERY SLOW	
362	367	370	393	394	417						6			2:05					WIND - 10-15 MPH SNOW NOISY (TOWN)	
363	368	371	394	395	418						7			2:45					WAITING ON LINE	
364	369	372	395	396	419						8			3:10					STN # 419 VERY NOISY (MID-TOWN) WIND GETTING TO STRONG	

GEOPHONE TYPE EV-22B FREQ. 7.5 Hz. GEO. PER PATCH 32 PATCH PATTERN 2x16 @ 600' GEO. INTERVAL VARIES SOURCE PATTERN 5x16 @ 792'
 AMPLIFIER TYPE 1FP TAPE TRANSPORT MTM-1 SHOTS / SWEEPS / DROPS PER POINT 16 TOTAL FOR DAY 5x96
 STATION INTERVAL 440 SPREAD DIMENSIONS 0-1320-2200 CDP STACK 24 TOTAL SET-UPS 6 SURFACE COV. .5 Miles
 RECORD FILTER ALIAS-31.25 SAMPLE RATE 8MS. RECORD LENGTH 50 SEC. SWEEP NUMBER _____ SWEEP FREQ. 8-32 Hz @ 20500
 DEPART CAMP _____ ARRIVE FIELD _____ DEPART FIELD _____ ARRIVE CAMP _____ TOTAL HOURS _____
 BREAKDOWN HOURS _____ 60 ~ NOTCH - In _____ Out OBSERVER SUNTIANS PAGE 39 of 39

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

Petty-Ray Geophysical
Division
Geosource Inc.

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CLIENT CO-CORP.	AREA SOUTH PASS/WIND RIVER UPLIFT	STATE WYO	COUNTY FREMONT	DATE 10-13-77
CREW NO. 6806	TERRAIN FLAT	WEATHER clear	LINE NO. 1A	

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	FILTER			REMARKS		
							LOCUT	60~	AMP			
1	934	E1WT								Recorder set-up 50/51 ONE OPEN PATCH CDP SWIT SET WRONG WAY CORR. RECORDS TRACES 10 & 12 WERE REVERSE CORR. GOOD ON FILE # 012 END OF REEL # 2 START OF REEL # 3		
2	935											
3	936	DRD'S.										
4	939											
5	001	1	5-100	023	5	MAX	2	0	0		9:00	NORMAL
6	002	2	4-90	024	5	"	"				9:25	"
7	003	3	7-102	021	"	"					9:40	"
8	004	4	8-103	020	4						9:55	"
9	005	5	9-104	019	"						10:10	"
10	006	6	10-105	018	5						10:25	"
11	007	7	11-106	017	"						10:55	"
12	008	8	12-107	016	"						11:10	"
13	009	9	13-108	015	"						11:25	"
14	010	10	14-109	014	"						11:40	"
15	011	11	15-110	013	4						11:55	"
16	012	12	16-111	012	"						12:10	"
17	013	13	17-112	011	"						12:25	"
18	014	14	18-113	010	"						12:40	"
19	015	15	19-114	009	5		3				1:00	"
20	016	16	20-115	008	5		"				1:15	"
21	017	17	21-116	007	4		"				1:30	"
22	018	18	22-117	006	"						1:50	"
23	019	19	23-118	005	"						2:05	"
24	020	20	24-119	004	"						2:20	"
25	021	21	25-120	003	"						2:35	"

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8-32 x 30 sec	SWEEP PATTERN Wline	SWEEPS PER PATTERN 5 x 16 = 80	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN WEIGHTED ARRAY	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR Y-900	TYPE GEOPHONE EV-22-B	FREQUENCY 7.5 Hz	STATION INTERVAL 330'
REMARKS " 0" - 1320" - 3,2670"			OBSERVER DAVE MURRAY	PARTY MGR. WALLY PINIC	

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Petty-Ray Geophysical
Division
Geosource Inc.**

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CLIENT CO-CORP	AREA South Pass/Wind River/Lift	STATE Wyo	COUNTY FREMONT	DATE 10-18-77
CREW NO. 6806	TERRAIN	WEATHER		LINE NO. 1A

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	F I L T E R		REMARKS
							LOCUT	60 ~	
1	22	26-121	002	5	MDA	3			2:50 TRAP NORMAL
2	23	27-122	001	"					3:05 Vib's. offset left 120' (Move Recorder)
3	24	28-123	018	"					4:00 " " " 240' Recorder set-up by
4	25	29-124	017	"					4:15 " " " 360'S
5	27	31-125	015						4:30 " " " 390' (START Every other station)
6	29	33-127	013						4:45 " " " 330' End of Reel # 3
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.
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 DAVE MURRAY	PARTY MGR. WALLY PIRI	

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Petty-Ray Geophysical
Division
Geosource Inc.**

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CLIENT CO-CORP.	AREA SOUTH PASS/WIND RIVER UPLIFT	STATE WYO	COUNTY FREMONT	DATE 10-14-77
CREW NO. 6806	TERRAIN FLAT	WEATHER Clear	LINE NO. 1A	

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	FILTER			REMARKS
							LOCUT	60~	AMP	
1	934	E1~T DRO'S				4				
2	935									
3	936									
4	939									
5	028	31	35-130	043	5	MAX	4	0	0	9:30 Vib's offset left 370'
6	029	33	37-132	041	"					9:45 " " " 210'
7	030	35	39-134	039	"					10:00 NORMAL " 210'
8	031	37	41-136	037	"					10:15 " " " "
9	032	39	43-138	035	"					10:30 Vib. offset left 60'
10	033	41	45-140	033	"					10:45 " " " 220'
11	034	43	47-142	031	"					11:00 " " " 280' Vib's go around R.R.
12	035	45	49-144	029	"					11:20 " " " 950'
13	036	47	51-146	027	"					11:35 " " " 770'
14	037	49	53-148	025	"					11:50 " " " 180'
15	038	51	55-150	023	"					12:10 " " " 80'
16	039	53	57-152	021	"					12:25 " " " 310'
17	040	55	59-154	019	"					12:40 " " " 550' End Reel # 4
18	900	ALL ONES	10 sec			5				ALL ONES 10 ^{sec} 750' START REEL # 5
19	041	57	61-156	017	"					1:00 " " " 750'
20	042	59	63-158	015	"					1:15 " " " 810'
21	043	61	65-160	013	"					1:30 " " " 880'
22	044	63	67-162	011	"					1:45 " " " 470'
23	045	65	69-164	009	"					2:00 " " " 190'
24	046	67	71-166	007	"					2:15 NORMAL
25	047	69	73-168	005	"					2:30 "

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. 112
SWEEP FREQUENCY 8-32 x 30 sec		SWEEP PATTERN inline	SWEEPS PER PATTERN 5x16=80	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN weighted ARRAY
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR Y-900	TYPE GEOPHONE EV-22 B	FREQUENCY 7.5 Hz	STATION INTERVAL 330
REMARKS 0-1320 ————— 32670			OBSERVER DAVE MURRAY	PARTY MGR. WALLY PIRIE	

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

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**Petty-Ray Geophysical
Division
Geosource Inc.**

CLIENT CO-CORP.	AREA SOUTH PASS	STATE WYO	COUNTY FREMONT	DATE 10-14-77
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CREW NO. 6806	TERRAIN	WEATHER	LINE NO. 1A
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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			RE MARKS
							LOCUT	60 ~	TAP	
1	71	75 - 170	003	5	MAX	5			2:45	NORMAL
*2	73	77 - 172	001	"					3:00	"
3	75	79 - 174	005	"	"				3:30	"
4	77	81 - 176	003	"					3:45	"
5	79	83 - 178	001	"					4:00	"
6										
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.
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 DAVE MURRAY	PARTY MGR. WALLY RIVIER	

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Petty-Ray Geophysical
Division
Geosource Inc.**

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CLIENT CO - CORP	AREA South PASS	STATE WYO	COUNTY FREMONT	DATE 10-19-77
CREW NO. 6806	TERRAIN HILLS	WEATHER Clear		LINE NO. 1A

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	934	ALL ONES									
2	935										
3	936										
4	939										
5	053	81	85-180	030	5	MAX	6	0	0	12:00	Vib. offset Right 140'
6	054	82	86-181	031						12:15	" " " 195'
7	055	83	87-182	032						12:30	" " " 240'
8											INST. TROUBLE shut down
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
REMARKS			OBSERVER DAVE MURRAY	PARTY MGR. WALLY PINE	

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

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**Petty-Ray Geophysical
Division
Geosource Inc.**

CLIENT CO-CORP	AREA South Pass	STATE WYO	COUNTY FREMONT	DATE 10-19-77
CREW NO. 6806	TERRAIN Hills	WEATHER Clear		LINE NO. 1A

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	FILTER			REMARKS
							LOCUT	60~	AMP	
1	934	E1MT								Low cut Filter should have been in but got put on out soon were on 1st two Reel on file # 057 Reel # 6 put filter in
2	935									
3	936	DROK								time
4	935									
5	056	84	88-183	027	5 MAX	6	0	0	9:00	offset Right 275' (File 057 MG)
6	058	85	89-184	026	"		9	0	9:30	" " 300' Vib's go Around R.R.
7	059	86	90-185	025	"				10:00	NORMAL
8	060	87	91-186	024	"				10:15	"
9		88	92-187							} SKIP VPS. 88 — 97 So. PASS City, WYO
10		89	93-188							
11		90	94-189							
12		91	95-190							
13		92	96-191							
14		93	97-192							
15		94	98-193							
16		95	99-194							
17		96	100-195							
18		97	101-196							
19	061	98	102-197	013	5 MAX	6	9		11:00	NORMAL
20	062	99	103-198	012	"				11:15	"
21	063	100	104-199	011	"				11:30	"
22	064	101	105-200	010	"				11:45	"
23	065	103	107-202	008	"				12:00	" END of Reel # 6
24	900	ALL ones				7				ALL ones START OF Reel # 7
25	066	105	109-204	006	"				12:45	NORMAL

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8-32 X 30 sec		SWEEP PATTERN inline		SWEEPS PER PATTERN 5 X 16 = 80	
SWEEP PATTERNS PER SETUP 1		PATCH PATTERN Weighted ARRAY			
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 4-900	TYPE GEOPHONE EV-22 B	FREQUENCY 7.5 HZ	STATION INTERVAL 330'
REMARKS 0 — 1320' — 32,670'			OBSERVER DAVE MURRAY	PARTY MGR. WALLY PIRIE	

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Petty-Ray Geophysical
Division
Geosource Inc.**

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CLIENT CO-CORP	AREA South PASS	STATE WYO	COUNTY FREMONT	DATE 10-19-77
CREW NO. 6806	TERRAIN	WEATHER	LINE NO. 1A	

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	FILTER			REMARKS
							LOCUT	60 ~	HAMP	
1	067	111 - 206	004	5	MAX	7	9	0	1:00	NORMAL
2	068	113 - 208	002	"					2:15	" MOVE RECORDER
3	069	115 - 210	036	"					2:30	" Recorder set-up 123/174
4	070	117 - 212	034	"					2:45	"
5	071	119 - 214	032	"					3:00	"
6	072	121 - 216	030	"					3:15	"
7	073	123 - 218	028	"					3:30	VIBS offset Right 170'
8	074	125 - 220	026	"					3:45	" " " 530'
9	075	127 - 222	024	"					4:00	" " " 420'
10	076	129 - 224	022	"					4:15	" " " 100'
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 DAVE MURRAY	PARTY MGR. WALLY PIERRE	

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Petty-Ray Geophysical
Division
Geosource Inc.**

CLIENT CO-CORP. AREA South PASS STATE Wyo COUNTY FREMONT DATE 10-20-77
 CREW NO. 6806 TERRAIN HILLS WEATHER Cloudy LINE NO. 1A

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	FILTER			REMARKS
							LOG CUT	60 ~	AMP	
900	ALL ONES									Recorder set-up 187/188
1	934	E/INT								
2	935									
3	936	DRA'S								
4	939									
5	077	127	131-226	034	5	MAX 8	9	0	9:30	NORMAL
6	078	129	133-228	032	"				9:45	"
7	079	131	135-230	030	"				10:00	"
8	080	133	137-232	028	"				10:15	"
9	081	135	139-234	028	"				10:30	Vib's. offset left 80'
10	082	137	141-236	024	"				10:45	NORMAL
11	083	139	143-238	022	"				11:00	"
12	084	141	145-240	020	"				11:15	Vib's. offset left 250'
13	085	143	147-242	018	"				11:30	" " " 80'
14	086	145	149-244	016	"				11:45	NORMAL
15	087	147	151-246	014	"				12:00	NORMAL
16	088	148	152-247	013	"				12:15	"
17	089	149	153-248	012	"				12:30	" END OF REEL # 8
18	900	ALL ONES				9				ALL ONES) START OF REEL # 9
19	090	150	154-249	011	"				1:00	NORMAL
20	091	151	155-250	010	"				1:15	"
21	092	152	156-251	009	"				1:30	"
22	093	153	157-252	008	"				1:45	"
23	094	154	158-253	007	"				2:00	"
24	095	155	159-254	006	"				2:15	"
25	096	156	160-255	005	"				2:30	"

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

SWEEP FREQUENCY 8-32 x 30 sec SWEEP PATTERN inline SWEEPS PER PATTERN 5x16=80 SWEEP PATTERNS PER SETUP 1 PATCH PATTERN Weighted ARRAY

GEOPHONES PER PATCH 24 NO. OF RECORDING PATCHES 96 TYPE VIBRATOR 4-900 TYPE GEOPHONE EV 22 B FREQUENCY 7.5 STATION INTERVAL 330 LINE DIR. 1 TO 24

REMARKS 0-1320-62670 OBSERVER DAVE MURRAY PARTY MGR. WALLY PIRIE

OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

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**Petty-Ray Geophysical
Division**
Geosource Inc.

CLIENT CO-CORP	AREA 50. PASS	STATE WYO	COUNTY FREMONT	DATE 10-20-77
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CREW NO. 6806	TERRAIN	WEATHER	LINE NO. 1A
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REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	FILTER			REMARKS		
							LOCUT	60 ~	120 ~			
1	097	157	161 - 256	004	5	MAX	9	9	0	2:45	NORMAL	MOVE RECORDER
2		158	162 - 257									
3		159	163 - 258									
4		160	164 - 259									
5		161	165 - 260									
6		162	166 - 261									
7		163	167 - 262									
8		164	168 - 263									
9		165	169 - 264									
10		166	170 - 265									
11		167	171 - 266									
12	098	168	172 - 267	015	5	MAX	9			3:15	VIBS offset left 180'	Recorder set-up $\frac{209}{212}$
13	099	169	173 - 268	014	"					3:30	"	" 250'
14	100	170	174 - 269	013	"					3:45	"	" 170'
15	101	171	175 - 270	012	"					4:00	NORMAL	
*16	102	172	176 - 271	011	"					4:15	"	
17												
18												
19												
20												
21												
22												
23												
24												
25												

} SKIP VPS. 158 - 167 ATLANTIC CITY, WYO

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY		SWEEP PATTERN		SWEEPS PER PATTERN	
GEOPHONES PER PATCH		NO. OF RECORDING PATCHES		TYPE VIBRATOR	
REMARKS		OBSERVER DAVE MURRAY		PARTY MGR. WALLY PIRIE	

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

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**Petty-Ray Geophysical
Division
Geosource Inc.**

CLIENT CO-CORP	AREA SO-PASS	STATE WYO	COUNTY FREMONT	DATE 10-21-77
CREW NO. 6806	TERRAIN HILLS	WEATHER Cloudy Light RAIN		LINE NO. 1A

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	FILTER			REMARKS
							LOCUT	60 ~	AMP	
1	900	ALL ONES								
2	934	EINT								
3	935									
4	936									
5	939	DRO'S.								TIME
6	103									
7	104	173	177-272	031	5	MAX	10	9	0	9:15 "
8	105	174	178-273	030	"					9:30 "
9	106	175	179-274	029	"					9:45 "
10	107	176	180-275	028	"					10:00 "
11	108	177	181-276	027	"					10:15 Vib's offset Left 150'
12	109	179	183-278	025	"					10:30 NORMAL (Vib's. go around creek)
13	—	181	185-280	023	"					SKIP CREEK
14	110	183	187-282	021	—					11:30 NORMAL
15	111	184	188-283	020	"					11:45 "
16	112	185	189-284	019	"					12:00 "
17	113	187	191-286	017	"					12:15 "
18	114	188	193-288	015	"					12:30 "
19	115	191	195-290	013	"					12:45 "
20	900	193	197-292	011	"					END OF REEL # 10
21	116	195	199-294	009	"					ALL ONES START OF REEL # 11
22	117	197	201-296	007	"					1:15 NORMAL
23	118	199	203-298	005	"					1:30 "
24	119	201	205-300	003	"					1:45 "
25	120	203	207-302	001	"					2:00 "
										2:15 MOVE RECORDER

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8-32 X 30^{sec}		SWEEP PATTERN 1/2 line		SWEEPS PER PATTERN 5 X 16 = 80	
SWEEP PATTERNS PER SETUP 1		PATCH PATTERN Weighted ARRAY			
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR Y-900	TYPE GEOPHONE EV-22 B	FREQUENCY 7.5 HZ	STATION INTERVAL 330'
REMARKS 0 — 1320' — 32,670'			OBSERVER DAVE MURRAY	PARTY MGR. WALLY PIRIE	

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Petty-Ray Geophysical
Division
Geosource Inc.**

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CLIENT CO-CORP.	AREA South PASS	STATE Wyo	COUNTY FREMONT	DATE 10-21-77
CREW NO. 6806	TERRAIN	WEATHER		LINE NO. 1A

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	205	209-304	009	5	MAX	11	9	0	3:00	NORMAL RECOLLECT SET-UP 149/41
2										
3										
4										
5										
6										
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.
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 DAVE MURRAY	PARTY MGR. WALLY PIRIE	

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

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Division
Geosource Inc.**

CLIENT Co-CORP	AREA South PASS	STATE WYO	COUNTY FREMONT	DATE 10-22-77
CREW NO. 6806	TERRAIN HILLS	WEATHER Clear		LINE NO. 1A

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	FILTER			REMARKS
							LOCUT	60 ~	AMP	
1	934	E1-OT								
2	935									
3	936	DRD'S								
4	939									
5	122	207	211 - 306	032	5	MAX	11	9	0	9:00 TIME NORMAL
6	123	209	213 - 308	030	"					9:15 "
7	124	211	215 - 310	028	"					9:30 "
8	125	213	217 - 312	026	"					9:45 "
9	126	215	219 - 314	024	"					10:00 "
10	127	217	221 - 316	022	"					10:15 "
11	128	219	223 - 318	020	"					10:30 " END of Reel # 11
12	900	ALL ones					12			" ALL ones) START of Reel # 12
13	129	221	225 - 320	018	5					11:00 NORMAL
14	130	223	227 - 322	016	"					11:15 "
15	131	225	229 - 324	014	"					11:30 "
16	132	227	231 - 326	012	"					11:45 "
17	133	229	233 - 328	010	"					12:00 "
18	134	231	235 - 330	008	"					12:15 "
19	135	233	237 - 332	006	"					12:30 " Vib. STUCK very soft place on Road
20	136	235	239 - 334	004	"					2:00 " MOVE RECORDER) Daek hunter cut cable two times
21	137	237	241 - 336	016	5					2:35 " RECORDER set-up ²¹⁹ / ₂₂₀
22	138	239	243 - 338	014	"					2:50 VIBS OFFSET LEFT 120'
23	139	241	245 - 340	012	"					3:05 " " 180'
24	140	243	247 - 342	010	"					3:20 NORMAL
25	141	245	249 - 344	008	"					3:35 VIBS OFFSET RIGHT NORMAL

TOTAL SETUPS 21	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8-30 X 30 ^{sec}	SWEEP PATTERN inline	SWEEPS PER PATTERN 5 x 16 = 80	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN weighted ARRAY	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR Y-900	TYPE GEOPHONE EV 22 B	FREQUENCY 7.5 HZ	STATION INTERVAL 330'
REMARKS 0 - 1320 ——— 32,670'	OBSERVER DAVE MURRAY	PARTY MGR. WALLY Pirie			

OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

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**Petty-Ray Geophysical
Division
Geosource Inc.**

CLIENT CO-CORP	AREA SOUTH PASS	STATE WYO	COUNTY FREMONT	DATE 10-22-77
CREW NO. 6806	TERRAIN	WEATHER		LINE NO. 1A

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	FILTER			REMARKS
							LOCUT	60~	AMP	
1	247	251-346	006	5	MAX	12	9	0	4:00	NORMAL
2										
3										
4										
5										
6										
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.
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 DAVE MURRAY	PARTY MGR. WALLY PINIE	

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Petty-Ray Geophysical
Division
Geosource Inc.**

PIE

CLIENT CO-CORP	AREA South PASS	STATE Wyo	COUNTY FREMONT	DATE 10-23-77
CREW NO. 6806	TERRAIN Hills	WEATHER Clear	LINE NO. 1A	

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	FILTER			REMARKS
							LOCUT	60~	AMP	
900	ALLONES									Recorder Setup ³⁰⁰ / ₃₀₁
1	934	} EINT								
2	935									
3	936	} DADS								
4	939									
5	143	249	253-348	025	5	MAX 13	9	0	9:45	Vib's. offset Right 350'
6	144	251	255-350	023	1				10:00	" " " 370'
7	145	253	257-352	024	"					370'
8										INST. TROUBLE SYS DROP. SNE.
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 8-32x30 sec	SWEEP PATTERN in line	SWEEPS PER PATTERN 5x16 = 80	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN Weighted ARRAY	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 4-900	TYPE GEOPHONE EV 22 B	FREQUENCY 7.5 Hz	STATION INTERVAL 330'
REMARKS 0 — 1,320' — 32,670'	OBSERVER DAVE MURRAY	PARTY MGR. WALLY PIRIE		LINE DIR. 1 TO 24	

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

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**Petty-Ray Geophysical
Division
Geosource Inc.**

CLIENT CO-CORP.	AREA SOUTH PASS	STATE WYO	COUNTY FREMONT	DATE 10-25-77
CREW NO. 6806	TERRAIN Hilly	WEATHER Clear		LINE NO. 1A

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	145	253	257-352	046	5	MAX	K3	9	0	9:00	Vib's offset Right 270'
2	146	255	259-354	044	"					9:15	NORMAL
3	147	257	261-356	042	"					9:30	"
4	148	259	263-358	040	"						SKIP (Very wet)
5	148	261	265-360	038	"					9:50	"
6	149	262	266-361	037	"					10:05	"
7	150	263	267-362	036	"					10:30	"
8	151	265	269-364	034	"					10:45	"
9	152	267	271-366	032	"					11:00	"
10	153	269	273-368	030	"					11:15	" Shut Down TO windy
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 8-32 X 30 sec	SWEEP PATTERN 1w line	SWEEPS PER PATTERN 5 x 16 = 80	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN Weighted ARRAY	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR Y-900	TYPE GEOPHONE EV-12 B	FREQUENCY 7.5 HZ	STATION INTERVAL 330'
REMARKS 0 - B20' - 32,670'	OBSERVER DAVE MURRAY	PARTY MGR. WALLY PIRIE			

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Petty-Ray Geophysical
Division
Geosource Inc.**

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CLIENT CD-CORP	AREA Wind River	STATE WYO	COUNTY	DATE 10/26/77
CREW NO. 6806	TERRAIN Hilly	WEATHER Clear	LINE NO. 1-A	

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	F I L T E R			REMARKS
							LOCUT	60 ~	400	
1	269	273-368	030	5	MAX	13	0		9:30	Normal
2	271	275-370	028	5	MAX	13	0		10:00	71 ft offset to the right End Reel #13
3	273	277-372	026	"	"	14	0		10:30	80 ft to the offset to the right. Start Reel #14
4	274 275	279-374	024	"	"	14	0		11:00	Normal
5	277	281-376	022	"	"	14	0		11:20	Normal
6	279	283-378	020	"	"	14	0		11:25	Offset 60 ft to the right.
7	281	285-380	018	"	"	14	0		11:50	offset 110ft left
8	283	287-382	016	"	"	14	0		12:10	offset left 70ft
9	286	290-385	013	"	"	"	0		12:30	Offset Left 500' note: Vibrators moved up 3 stations
10	287	291-386	012	"	"	"	0		1:50	Offset left 370ft
11	163									Dis regard.
12	164									Dis regard
13	165									Dis regard
14	166									Dis regard
15	167									Dis regard
16	168-172									No Fibs
17	173									Dis regard
18	174									Dis regard
19	175									Similarity
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**

**Petty-Ray Geophysical
Division
Geosource Inc.**

CLIENT CO-CORP AREA Wind River up lift STATE Wyo COUNTY _____ DATE 10/27/77
 CREW NO. 6806 TERRAIN Hilly WEATHER Clear, calm LINE NO. #1A

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	F I L T E R			REMARKS
							LOCUT	60 ~	Rtime AMP	
1	176	289	293-388	010	5	MAX	15	0	9:15	offset 80ft left changed tapes reel to #15
2	177	291	295-390	008	5	MAX	15	0	9:30	normal
3	178	293	297-392	006	5	MAX	15	0	9:47	offset 130 ft right
4	179	295	299-394	004	5	MAX	15	0	10:05	normal
5	180	297	301-396	002	5	MAX	15	0	10:20 11:20	normal
6	181	299	303-398	020	5	MAX	15	0	12:15	Normal Moved recording truck to station 345/346
7	182	301	305-400	018	5	MAX	15	0	12:30	Normal Moved rec sta. sta. 313 open File 181-186
8	183	303	307-402	016	5	MAX	15	0	12:50	Normal
9	184	305	309-404	014	5	MAX	15	0	1:10	Normal
10	185	307	311-406	012	5	MAX	15	0	1:30	Normal
11	186	309	313-408	010	5	MAX	15	0	1:45	offset right 70 ft
12	187	311	315-410	008	5	MAX	15	0	2:00	Normal
13	188	313	317-412	006	5	MAX	15	0	2:15	offset right 60 ft END of Reel # 15
14	189	315	319-414	004	5	MAX	16	0	2:40	Normal Start of Reel # 16
15	190	317	321-416	002	5	MAX	16	0	3:00	Normal note 4 vib. Moved recording truck after this V.P.
16	192	319	323-418	038	4	MAX	16	0	4:50	Normal note 4 vib. Moved to 383 note File 191 skipped
17	193	321	325-420	036	4	MAX	16	0	4:10	Normal note 4 vibrators
18	194	323	327-422	034	4	MAX	16	0	5:25	Normal
19										
20										
21										
22										
23										
24										
25										

TOTAL SETUPS 8 TOTAL SWEEPS _____ TOTAL COVERAGE _____ TOTAL FIELD TIME _____ DRIVING TIME _____ SYSTEM NO. _____
 SWEEP FREQUENCY 8-32 x 30.5 sec SWEEP PATTERN In Line SWEEPS PER PATTERN 5-16=80 SWEEP PATTERNS PER SETUP 1 PATCH PATTERN Weighted Array
 GEOPHONES PER PATCH 24 NO. OF RECORDING PATCHES 96 TYPE VIBRATOR Y-900 TYPE GEOPHONE EV 22B FREQUENCY 7.5 Hz STATION INTERVAL 330 LINE DIR. 1 TO 24
 REMARKS 0-1320-32670 OBSERVER Dave Murray PARTY MGR. W. Pirie

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

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**Petty-Ray Geophysical
Division
Geosource Inc.**

CLIENT Co-CORP	AREA Wind River UPLIFT	STATE WYO	COUNTY	DATE 10/28/77
CREW NO. 6806	TERRAIN Hilly	WEATHER Partly Partly Cloudy - windy		LINE NO. 1A

REC.NO.	SWEEP POINT	PATCH LOCATIONS	GDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	F I L T E R			REMARKS
							LOCUT	60 ~	AMP	
1	195	326	330-425	031	5	MAX	16	0	9:25	Skipped 326
2	196	327	331-426	030	4	MAX	16	0	10:00	Normal
3	197	328	332-427	039	4	MAX	16	0	10:15	Normal
4	198	332	336-431	025	5	MAX	16	0	10:35	Skipped 329 VP 329 & 331 too steep. offset 200ft left
5	199	333	337-432	024	5	MAX	16	0	10:50	offset 40ft left
6	200	335	339-434	022	5	MAX	16	0	10:05	Normal instrument problems developed. This File Bad
7	201	335	339-434	022	4	MAX	16	0	12:30	reshot (shook) VP 335 Normal 1/4 hr. down time. End Reel #16
8	202	337	341-436	020	4	MAX	17	0	1:00	Normal starts Reel #17
9	203	339	343-438	018	4	MAX	17	0	1:20	Normal weak energy
10	204	341	345-440	016	5	MAX	17	0	1:40	Normal "
11	205	343	347-442	014	5	MAX	17	0	1:55	Normal "
12	206	345	349-444	012	5	MAX	17	0	2:10	Normal
13	207	347	351-446	010	5	MAX	17	0	2:30	Normal
14	208	349	353-448	008	5	MAX	17	0	2:45	Normal
15	209	351	355-450	006	5	MAX	17	0	3:00	Normal
16	210	353	357-452	004	5	MAX	17	0	3:15	Normal note: cows around station 434
17	211	355	359-452	002	5	MAX	17	0	3:30	Normal note: cows around station 434 low energy
18										
19										
20										
21										
22										
23										
24										
25										

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TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY B-32x.30 Sec.	SWEEP PATTERN In Line	SWEEPS PER PATTERN 5x16=80	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN Weighted Array	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR Y-900	TYPE GEOPHONE EV# 22B	FREQUENCY 7.5 Hz	STATION INTERVAL 330
REMARKS 0-1320-32670	OBSERVER Dave Murray	PARTY MGR. W. Pirie	LINE DIR. 1 TO 24		

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Petty-Ray Geophysical
Division
Geosource Inc.**

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CLIENT Co-Corp AREA Wind River Uplift STATE Wyo COUNTY FREMONT DATE 10/31/77

CREW NO. 6806 TERRAIN Hilly WEATHER Cloudy LINE NO. 1A

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	934	E1 NT								Recorder set-up 428/429
2	935									
3	936									
4	939		OROS							
5	215	357	361-456	045	5	MAX 17	9	0	9:00	NORMAL
6	216	359	363-458	043	"					"
7	217	361	365-460	041	"					"
8	218	363	367-462	039	"	17				" END OF Reel # 17
9	219	365	369-464	037	"	18				" START OF Reel # 18
10	220	367	371-466	035	"					"
11	221	369	373-468	033	"					"
12	222	371	375-470	031	"					"
13	223	373	377-472	029	"					"
14	224	375	379-474	027	"					"
15	225	377	381-476	025	"					"
16	226	379	383-478	023	"					"
17	227	381	385-480	021	"					"
18	228	383	387-482	019	"					"
19	229	385	389-484	017	"					Vib's offset left 110'
20	230	387	391-486	015	"					" " " 110'
21	231	389	393-488	013	"					NORMAL
22	232	391	395-490	011	"	18				Vib's offset Right 90' END OF Reel # 18
23	233	393	397-492	009	"	19				" " " 140' START OF Reel # 19
24	234	395	399-494	007	"	"				" " " 130'

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

SWEEP FREQUENCY 8-32 X 30 sec SWEEP PATTERN 1w/1e SWEEPS PER PATTERN 5 X 16 = 80 SWEEP PATTERNS PER SETUP 1 PATCH PATTERN Weighted ARRAY

GEOPHONES PER PATCH 24 NO. OF RECORDING PATCHES 96 TYPE VIBRATOR 7-900 TYPE GEOPHONE EV-22 B FREQUENCY 7.5 HZ STATION INTERVAL 330' LINE DIR. 1 TO 24

REMARKS 0 — 1320' — 32,690' OBSERVER DAVE MURRAY PARTY MGR. WALLY PIRIE

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Petty-Ray Geophysical
Division
Geosource Inc.**

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CLIENT CO-CORP.	AREA WIND RIVER UPLIST	STATE WYO	COUNTY PREMONT	DATE 11-1-77
CREW NO. 6806	TERRAIN Rolling hills	WEATHER Clear light wind	LINE NO. 1A	

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	FILTER			REMARKS	
							LOCUT	60~	AMP		
1	934	EINT									
2	935										
3	936	DRO'S.									
4	939										
5	235	397	401-496	042	5	MAX	19	9	0	9:00	Vib's. offset Right 210'
6	236	399	403-498	040	"						" " " 220'
7	237	401	405-500	038	"						" " left 470'
8	238	403	407-502	036	"						" " " 880'
9	239	405	409-504	034	"						" " " 500'
10	240	407	411-506	032	"						" " " 250'
11	241	409	413-508	030	"						" " Right 140'
12	242	410	414-509	029	"						" " " 430'
13	243	411	415-510	028							SKIP
14	243	413	417-512	026	"						Vib's. " Right 590'
15	244	415	419-514	024	"						" " " 330'
16	245	417	421-516	022	"						NORMAL
17	246	419	423-518	020	"		19&20				" " End of Reel # 19
18	247	421	425-520	018	"		20				" " START of Reel # 20
19	248	423	427-522	016	"						" "
20	249	425	429-524	014	"						Vib's offset left 60'
21	250	427	431-526	012	"						NORMAL
22	251	429	433-528	010	"						Vib's. offset Right 80'
23	252	431	435-530	008	"						" " " 360'
24	253	433	437-532	006	"						" " " 300'
25	254	435	439-534	004	"						" " " 110'

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TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8-32 X 30 SEC		SWEEP PATTERN inline	SWEEPS PER PATTERN 5 X 16 = 80	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN weighted ARRAY
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR y-900	TYPE GEOPHONE EV 22 B	FREQUENCY 7.5	STATION INTERVAL 330'
REMARKS 0 — 1320' — 32,670'			OBSERVER DAVE MURRAY	PARTY MGR. WALLY PIKIE	

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

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**Petty-Ray Geophysical
Division
Geosource Inc.**

CLIENT CO-CORP.	AREA wind River uplift	STATE wyo	COUNTY FREMONT	DATE 11-1-77
CREW NO. 6808	TERRAIN	WEATHER		LINE NO. 1A

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	437	441-536	002	5	MAX	20	9	0		NORMAL MOVE RECORDER
2	439	443-538	022	"						RECORDER SET-UP 487/488
3	441	445-540	020	"						"
4	443	447-542	018	"						"
5	445	449-543	016	"						" END OF REEL #20
6	447	451-543	014	"		21			4130	" START OF REEL #21
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.
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 DAVE MURRAY		PARTY MGR. WALLY PIRIE		LINE DIR. 1 TO 24

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

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Division
Geosource Inc.**

CLIENT CO-CORP	AREA wind RIVER up list	STATE WYO	COUNTY FREMONT	DATE 11-2-77
CREW NO. 6806	TERRAIN Rolling hills	WEATHER Clear	LINE NO. 1A	

REC. NO.	SWEEP POINT	PATCH LOCATIONS	COP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	FILTER			REMARKS
							LOCUT	60 ~	AMP	
1	934	E INT								
2	935									
3	936		DRAS							
4	939									
5	261	449	453-543	129	5	MAX 21	9	0	8.45	NORMAL
6	262	451	455-543	127	"					"
7	263	453	457-543	125	"					"
8	264	455	459-543	123	"					"
9	265	457	461-543	121	"					"
10	266	459	463-543	119	"					Vib's offset left 330' NORMAL
11	267	461	465-543	117	"					NORMAL
12	268	463	467-543	115	"					Vib's offset left 330'
13	269	465	469-543	113	"					" " " 260'
14	270	467	471-543	111	"					NORMAL
15	271	469	473-543	109	"					"
16	272	471	475-543	107	"	21				" End of Reel # 21
17	273	473	477-543	105	"	22				" START of Reel # 22
18	274	475	479-543	103	"					"
19	275	477	481-543	101	"					"
20	276	479	483-543	099	"					"
21	277	481	485-543	097	"					"
22	278	483	487-543	095	"					Vib's offset left 1000'
23	279	485	489-543	093	"					" " " 700'
24	280	487	491-543	091	"					" " " 150'
25	281	489	493-543	089	"					NORMAL

SKIP →

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8-32x30 sec		SWEEP PATTERN inline		SWEEPS PER PATTERN 5x16 = 80	
SWEEP PATTERNS PER SETUP 1		PATCH PATTERN weighted ARRAY			
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR Y-900	TYPE GEOPHONE EV-22B	FREQUENCY 7.5	STATION INTERVAL 330'
REMARKS 0 - 1320' - 32,600'			OBSERVER DAVE MYRRA	PARTY MGR. WALLY Pirie	

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

Petty-Ray Geophysical
Division
Geosource Inc.

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CLIENT CO-CORP	AREA Wind River up list	STATE wyo.	COUNTY FREMONT	DATE 11-2-77
CREW NO. 6806	TERRAIN Rolling hills	WEATHER Clear		LINE NO. 1A

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	282	491	495-543	087	5	MAX	22	9	0	NORMAL
2	283	493	497-543	085	"					"
3	284	495	499-543	083	"					"
4	285	497	501-543	081	"					"
5	286	499	503-543	079	"		22			Vib's offset RIGHT 300'
6	287	501	505-543	077	"		23			NORMAL
7	288	503	507-543	075	"				4:30	Vib. offset RIGHT 290'
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										

SKIP →

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 DAVE MURRAY	PARTY MGR. Wally Pirie	

OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

Petty-Ray Geophysical
Division
Geosource Inc.

CLIENT CO-CORP	AREA Wind River uplift	STATE WYO.	COUNTY FREEMONT	DATE 11-3-77
CREW NO. 6806	TERRAIN FLAT	WEATHER cloudy		LINE NO. 1A

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	289	508-543	095	5	MAX	23	9	0	31.2	Recorder set-4 ⁵³² 533 Vib's offset Right 480'
2	290	509-543	096	"						" " " 300'
3	291	510-543	095	"						" " " 150'
4	292	511-543	094	"						NORMAL "
5	293	512-543	093	"						NORMAL "
6	294	513-543	092	"						" "
7	295	514-543	091	"						Vib's offset Left 150'
8	296	515-543	090	"						" " " 350'
9	297	516-543	089	"						" " " 360'
10	298	517-543	088	"						" " " 370'
11	299	518-543	087	"						" " " 390'
12	300	519-543	086	"						" " " 470' END Reel # 23
13	301	520-543	085	"		24				" " " 550' START Reel # 24
14	302	521-543	084	"						" " " 610'
15	303	522-543	083	"						" " " 570'
16	304	523-543	082	"						" " " 490'
17	305	524-543	081	"						" " " 390'
18	306	525-543	080	"						" " " 290'
19	307	526-543	079	"						" " " 290'
20	308	527-543	078	"						" " " 330'
21	309	528-543	077	"						" " " 390'
22	310	529-543	076	"						" " " 420'
23	311	530-543	075	"						" " " 520'
24	312	531-543	074	"						" " " 660'

SKIP →

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8-32x30^{sec}	SWEEP PATTERN inline	SWEEPS PER PATTERN 5x16=80	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN weighted ARRAY	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR Y-900	TYPE GEOPHONE EV-22 B	FREQUENCY 7.5	STATION INTERVAL 330'
REMARKS "0" — 1320' — 32,670'	OBSERVER DAVE MURRAY	PARTY MGR. WALLY PIRIE			