ORIGINALS

STADIA SURVEY NOTES

AREA GRASS VALLEY STATE NEVADA PAGE No. 1

LINE No. LINE 1 PARTY No. 1743 DATE Day 10 Mo. 7 Yr. 79 BOOK No.

SURVEYOR R. ZIPPLISCH RODMAN WEATHER CLEAR P.T.S. No.

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER: Level	Inclined	Angle or Factor	ROD READING: Hair Read	Reading	Correction	Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS: INST.	ROD	▲ BS 0 FS - SS	Station	FINAL ELEVATIONS	REMARKS
		2640		89 41		40			15.0		40.7	4605.7	—	△	101	BM 4665	
		✓		270 18		25			15.0					△			
		1980		89 54		45			7.0		-3.9		4601.9		105		
		1320		89 59		10			7.0		-5.9		4599.9		109		
		660		89 58		40			7.0		-6.7		4599.6		113		
		0	✓						5.0		-5.0		4600.7	π	117		
		660		89 30		30			7.0		-1.3		4604.4		121		
		1320		89 31		40			7.0		+3.9		4609.7		125		
		1980		89 32		10			7.0		+9.1		4614.9		129		
		2640		89 21		25			15.0		+14.9		4620.6	0	133		
		✓		270 38		50			15.0					0			
		2640		90 33		45			15.0		+40.7	4661.3		△			
		✓		269 26		25			15.0					△			
		1980		90 47		00			7.0		-34.0		4627.3		137		
		1320		90 45		20			7.0		-24.4		4637.0		141		
		660		90 51		40			7.0		-16.9		4644.4		145		
		0	✓						5.0		-5.0		4656.3	π	149		
		660		89 36		50			15.0		-10.5		4650.8		143		

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STADIA SURVEY NOTES

AREA GRASS VALLEY STATE NEVADA PAGE No. 2

LINE No. 1 PARTY No. 1743 DATE Day 10 Mo. 7 Yr 79 BOOK No.

SURVEYOR R. IPPISCH RODMAN WEATHER CLEAR P.T.S. No.

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER: Level	Inclined	Angle or Factor	ROD READING: Hair Read	Reading	Correction	Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS: INST.	ROD	▲ BS ○ FS − SS	Station	FINAL ELEVATIONS	REMARKS
		1070		89	43	10			5.0		+0.3		4661.6	D	HOT	SPRINGS BM 4661	
		✓		270	16	50			5.0					D			
											+ 0.6 MISTIE						
		1070		89	43	10			5.0		-0.3	4660.7		Δ	BM	4661	
		✓		270	16	50			5.0					Δ			
		0	✓						5.0				4653.7	π	149		
		1320		89	43	10			7.0		-0.5		4660.2		157		
		1380		89	23	20			7.0		+14.2		4674.9		161		
		2600		89	03	35			15.0		+27.8		4688.5	0	165		
		✓		270	56	20			15.0					0			
		1300		90	04	00			15.0		+16.5	4705.0		Δ			
		✓		269	55	45			15.0					Δ			
		660		90	28	20			7.0		-12.4		4692.6		169		
		0	✓						5.0		-5.0		4700.0	π	173		
		660		89	29	20			7.0		-1.1		4703.9		177		

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AREA GRASS VALLEY STATE NEVADA PAGE No. 3

LINE No. 1 PARTY No. 1743 DATE Day 10 Mo. 7 Yr. 79 BOOK No.

SURVEYOR RIPPSCH RODMAN WEATHER CLEAR P.T.S. No.

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER: Level	BEAMAN OR VERNIER: Inclined	BEAMAN OR VERNIER: Angle or Factor	ROD READING: Hair Read	ROD READING: Reading	ROD READING: Correction	ROD READING: Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS: INST.	ELEVATIONS: ROD	▲ BS 0 FS - SS	Station	FINAL ELEVATIONS	REMARKS
		1320		89	48	40			17.0		-2.6		4702.4		181		
		1980		89	45	50			7.0		+1.2		4706.3		185		
		2640		89	36	20			15.0		+3.2		4708.2	0	189		
		✓		270	23	15			15.0					0			
		2640		89	46	60			15.0		+4.7	4712.9		Δ			
		✓		270	12	20			16.0					Δ			
		1980		89	59	20			7.0		-6.5		4706.3		193		
		1520		89	56	30			7.0		-5.6		4707.3		197		
		660		90	13	40			7.0		-9.6		4703.3		201		
		0	✓						5.0		-5.0		4707.9	X	205		
		660		90	20	40			7.0		-11.0		4701.9		209		
		1320		90	18	20			7.0		-14.0		4698.9		213		
		1980		90	12	20			7.0		-14.0		4698.9		217		
		2640		89	56	30			15.0		-12.3		4700.6	0	221		
		✓		270	03	10			15.0					0			

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STADIA SURVEY NOTES

AREA GRASS VALLEY STATE NEVADA PAGE No. 4

LINE No. 1 PARTY No. 1743 DATE Day 10 Mo. 7 Yr. 79 BOOK No.

SURVEYOR R IPPISCH RODMAN WEATHER CLEAR P.T.S. No.

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER: Level	Inclined	Angle or Factor	ROD READING: Hair Read	Reading	Correction	Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS: INST.	ROD	▲ BS O FS - SS	Station	FINAL ELEVATIONS	REMARKS
		2640		90	11	00			15.0		+23.4	4724.4		Δ	221		
		✓		269	48	40			15.0					Δ			
		1980		90	23	20			7.0		-20.4		4703.7		225		
		1820		90	24	30			7.0		-16.4		4707.6		229		
		660		90	27	00			7.0		-12.2		4711.8		233		
		0	✓						5.0		-5.0		4719.4	π	237		
		660		89	12	30			7.0		+2.1		4726.1		241		
		1320		89	19	10			7.0		+8.7		4732.7		245		
		1980		89	25	20			7.0		+13.0		4737.1		249		
		2640		89	21	05			15.0		+15.1		4739.1	o	253		
		▽		270	39	05			15.0					o			
		1320	✓						6.7		+6.7	4745.3		Δ			
		✓	✓						6.2					Δ			
		0	✓						5.0				4740.3	π	261		
		1640	✓						7.5		-7.4		4737.8	o	BM-CATTEGUARD	4738	
		✓	✓						7.5					o			
												0.2	MISTIE				

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AREA GRASS VALLEY STATE NEVADA PAGE No. 5

LINE No. 1 PARTY No. 1743 DATE Day 10 Mo. 7 Yr. 79 BOOK No.

SURVEYOR R IPPISCH RODMAN WEATHER CLEAR P.T.S. No.

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER: Level	Inclined	Angle or Factor	ROD READING: Hair Read	Reading	Correction	Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS: INST.	ROD	▲ BS O FS - SS	Station	FINAL ELEVATIONS	REMARKS
		1640	✓						7.5		-7.4	4745.4		△	BM	4738'	
		✓	✓						7.5					△			
		660		89	56	00			7.0		-6.2		4739.2		257		
		0	✓						5.0		-5.0		4740.4	π	261		
		660		88	57	20			6.0		+6.0		4751.5		265		
		1320		89	13	10			6.0		+10.1		4755.5		269		
		1000		90	++	++			1.50					○	273		
		1980		89	18	25			15.0		+9.0		4754.4	○	273		
				270	41	20			15.0					○			
		2640		90	32	30			15.0		+39.8	4794.2		△			
		✓		269	27	30			15.0					△			
		1980		90	59	20			6.0		-40.1		4754.1		277		
		1320		91	02	20			6.0		-29.9		4764.3		281		
		660		91	06	40			6.0		-18.8		4775.4		285		
		0	✓						5.0		-5.0		4789.2	π	289		
		660		88	58	30			6.0		+5.8		4800.0		293		
		1320		88	08	45			5.0		+37.7		4831.9	○	297		
		✓		271	50	50			5.0					○			

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STADIA SURVEY NOTES

AREA GRASS VALLEY STATE NEVADA PAGE No. 6

LINE No. 1 PARTY No. 1743 DATE Day 10 Mo. 7 Yr. 79 BOOK No.

SURVEYOR R. IPPOLITO RODMAN WEATHER CLEAR P.T.S. No.

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER: Level	Inclined	Angle or Factor	ROD READING: Hair Read	Reading	Correction	Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS: INST.	ROD	▲ BS ○ FS − SS	Station	FINAL ELEVATIONS	REMARKS
		1485		91	11	00			15.0		+45.6	4877.5		△	297		
		✓		268	49	00			15.0					△			
		825		90	56	00			6.0		-19.4		4858.1		301		
		165		92	55	30			1.0		-9.4		4868.1		305		
		0	✓						5.0		-5.0		4872.5	X	306		
		660		89	12	10			7.0		+2.2		4875.7		310		
		1320		89	23	10			7.0		+7.2		4884.7		314		
		1980		89	22	50			7.0		+14.5		4892.0		318		
		2640		89	10	10			15.0		+23.5		4901.0	○	322		
		✓		270	50	00			15.0					○			
		1650		89	57	35			15.0		+13.8	4914.8		△			
		✓		270	02	15			15.0					△			
		990		90	13	50			7.0		-11.0		4903.9		326		
		330		90	23	50			7.0		-9.3		4905.5		330		
		0	✓						5.0		-5.0		4909.8	X	332		
		660		90	25	00			7.0		-11.8		4903.0		336		
		1320		90	07	30			7.0		-9.8		4905.0		340		
		1980		89	47	20			7.0		+0.4		4915.2		344		

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AREA GRASS VALLEY STATE NEVADA PAGE No. 7

LINE No. 1 PARTY No. 1743 DATE Day 10 Mo. 7 Yr. 79 BOOK No.

SURVEYOR RIPPLSCH RODMAN WEATHER CLEAR P.T.S. No.

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER: Level	Inclined	Angle or Factor	ROD READING: Hair Read	Reading	Correction	Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS: INST.	ROD	▲ BS O FS - SS	Station	FINAL ELEVATIONS	REMARKS
		2640		89	25	30			15.0		+11.9		4926.5	O	348		
		✓		270	34	40			15.0					O			
		2640		90	54	45			15.0		+56.8	4982.3		△			
		✓		269	05	30			15.0					△			
		1980		91	07	10			7.0		-45.6		4937.7		352		
		1320		91	06	00			7.0		-32.3		4951.0		356		
		660		91	00	35			7.0		-18.6		4964.7		360		
		0	✓						5.0		-5.0		4978.3	X	364		
		660		88	45	00			7.0		+7.4		4990.7		368		
		1200		88	52	00			5.0		+18.8		5002.1		Rd ELEV 5002'		0.1 MISTIE
		1320		88	47	00			7.0		+21.1		5004.4		372		
		1980		88	52	10			7.0		+32.1		5015.5		376		
		2640		88	45	15			15.0		+42.5		5025.8	O	380		
		✓		271	14	40			15.0					O			

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AREA GRASS VALLEY STATE NEVADA PAGE No. 8

LINE No. 1 PARTY No. 1743 DATE Day 10 Mo. 7 Yr. 79 BOOK No.

SURVEYOR R. IPPOLITH RODMAN WEATHER CLEAR P.T.S. No.

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER: Level	Inclined	Angle or Factor	ROD READING: Hair Read	Reading	Correction	Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS: INST.	ROD	▲ BS O FS - SS	Station	FINAL ELEVATIONS	REMARKS
		2640		91	25	50			15.0		+80.8	5106.7		Δ	380		
		⌐		268	34	00			15.0					Δ			
		1980		91	39	20		—	7.0		-64.1		5042.5		384		
		1320		91	41	30			7.0		-45.9		5060.7		388		
		660		91	22	40			7.0		-22.9		5083.8		392		
		0	✓						5.0		-5.0		5101.7	⊼	396		
		660		88	42	10			5.0		+10.0		5116.6		400	Rd ELEV	
		1320		88	43	10			7.0		+22.5		5129.2		404		
		1980		88	28	40			7.0		+45.7		5152.3		408		
		2640		88	08	50			15.0		+70.4		5177.1	0	412		
		✓		271	51	00			15.0					0			
		990		90	54	00			15.0		+30.5	5207.6		Δ			
		⌐		269	06	00			15.0					Δ			
		330		90	34	05			6.0		-3.3		5198.4		416		
		0	✓						5.0		-5.0		5202.6	⊼	418		
		495		90	26	50			6.0		-8.9		5197.8		421		
		800		89	30	20			15.0		-8.0		5199.6	0	423		
		✓		270	30	20			15.0					0			

2.5

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AREA GRASS VALLEY STATE NEVADA PAGE No. 9

LINE No. 1 PARTY No. 1743 DATE 10 Day 7 Mo. 79 Yr. BOOK No.

SURVEYOR R IPPISCH RODMAN WEATHER P.T.S. No.

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER: Level	Inclined	Angle or Factor	ROD READING: Hair Read	Reading	Correction	Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS: INST.	ROD	▲ BS O FS − SS	Station	FINAL ELEVATIONS	REMARKS
		1290		91	29	00			15.0		+48.3	5248.0		Δ	423		
		✓		268	31	10			15.0					Δ			
		660		92	09	30			6.0		-30.8		5217.1		427		
		0	✓						5.0		-5.0		5243.0	T	431		
		660		88	31	10			22.0		-4.9		5243.1		435		
		1320		88	13	30			22.0		+18.9		5266.9		439	EOL	

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AREA GRASS VALLEY STATE NEVADA PAGE No. 1

LINE No. 2 PARTY No. 1743 DATE Day 10 Mo. 7 Yr. 79 BOOK No.

SURVEYOR R IRWISCH RODMAN WEATHER CLEAR P.T.S. No.

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER: Level	Inclined	Angle or Factor	ROD READING: Hair Read	Reading	Correction	Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS: INST.	ROD	▲ BS ○ FS - SS	Station	FINAL ELEVATIONS	REMARKS
		2640		88 05	00				15.0			4726.2		Δ	101		
		1980		88 36	20				6.0		+42.3		4768.5		105		
		1320		88 34	30				6.0		+26.9		4753.1		109		
		660		88 25	40				6.0		+12.1		4738.3		113		
		0	✓						5.0		-5.0		4721.2	⊼	117		
		660		91 27	40				6.0		-22.8		4703.4		121		
		1320		91 37	40				6.0		-43.5		4682.8		125		
		1980		91 34	35				6.0		-60.4		4665.8		129		
		2640		91 22	50				15.0		-78.5		4647.8	○	133		
		✓		268 37	10				15.0					○			
																	NOTES, WORKED BACKWARDS
		330		88 06	20				5.0		-5.9	4641.9		Δ			
		✓		271 53	35				5.0					Δ			
		1620		90 14	40				15.0		-21.9		4620.0		BM-	4620'	
		0	✓						5.0		-5.0		4636.9	⊼	135		
		660		91 38	10				6.0		-24.8		4611.0		139		
		1320		91 32	00				6.0		-41.3		4600.6		143		
		1980		91 21	55				6.0		-53.1		4588.8		147		

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AREA GRASS VALLEY STATE NEVADA PAGE No. 2

LINE No. 2 PARTY No. 1743 DATE Day 10 Mo. 7 Yr. 73 BOOK No.

SURVEYOR PIPISCH RODMAN WEATHER CLEAR P.T.S. No.

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER Level	Inclined	Angle or Factor	ROD READING Hair Read	Reading	Correction	Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS INST.	ROD	▲ BS O FS – SS	Station	FINAL ELEVATIONS	REMARKS
		2640		91	10	10			15.0		-68.7		4573.2	O	151		
		✓		268	50	00			15.0					O			
		2640		89	50	00			15.0			4580.4		△			
		✓		270	10	00			15.0		+7.2			△			
		1980		90	05	20			6.0		-9.0		4571.4		155		
		1320		90	03	20			6.0		-7.2		4573.1		159		
		660		90	03	30			6.0		-6.7		4573.7		163		
		0	✓						5.0		-5.0		4575.4	T	167		
		660		89	51	10			6.0		-4.3		4576.1		171		
		1320		89	58	50			6.0		-5.5		4574.8		175		
		1980		89	59	20			6.0		-5.5		4574.8		179		
		2640		89	49	50			15.0		-7.0		4573.3	O	183		
		✓		270	10	15			15.0					O			
		2640		89	58	20			15.0		+13.4	4586.8		△			
		✓		270	02	00			15.0					△			
		1980		90	11	50			6.0		-12.7		4574.1		187		
		1320		90	19	30			6.0		-13.5		4573.3		191		

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STADIA SURVEY NOTES

AREA GRASS VALLEY STATE NEVADA PAGE No. 3

LINE No. 2 PARTY No. 1143 DATE Day 10 Mo. 7 Yr. 79 BOOK No.

SURVEYOR R IPPISCH RODMAN WEATHER CLEAR P.T.S. No.

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER: Level	Inclined	Angle or Factor	ROD READING: Hair Read	Reading	Correction	Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS: INST.	ROD	▲ BS O FS - SS	Station	FINAL ELEVATIONS	REMARKS
		660		90	07	10			6.0		-7.4		4579.4		195		
		0	✓						5.0		-5.0		4581.8	T	199		
		660		89	52	50			6.0		-4.6		4582.2		203		
		1320		89	56	40			6.0		-4.7		4582.1		207		
		1980		89	55	00			6.0		-3.0		4583.8		211		
		2640		89	42	15			15.0		-1.1		4585.7	O	215		
		✓		270	18	10			15.0					O			
		2640		89	54	30			15.0		+10.5	4596.2		Δ			
		✓		270	05	55			15.0					Δ			
		1980		90	06	30			6.0		-2.7		4586.5		219		
		1320		90	05	00			6.0		-7.9		4588.4		223		
		660		90	02	20			6.0		-6.4		4589.9		227		
		0	✓						5.0		-5.0		4591.2	T	231		
		660		89	35	10			6.0		-1.2		4595.1		235		
		1320		89	27	40			6.0		+6.5		4602.8		239		
		1980		89	26	40			6.0		+13.3		4609.6		243		
		2640		89	14	55			15.0		+19.7		4616.0	O	247		
		✓		270	44	50			15.0					O			

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AREA GRASS VALLEY STATE NEVADA PAGE No. 4

LINE No. 2 PARTY No. 1743 DATE Day 10 Mo. 7 Yr. 79 BOOK No.

SURVEYOR R ISPISCH RODMAN WEATHER CLEAR P.T.S. No.

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER: Level	Inclined	Angle or Factor	ROD READING: Hair Read	Reading	Correction	Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS: INST.	ROD	▲ BS O FS − SS	Station	FINAL ELEVATIONS	REMARKS
		2640		90	52	00			15.0		+54.6	4670.6		Δ	247		
		✓		269	08	25			15.0					Δ			
		1980		91	13	50			6.0		-48.4		4622.2		251		
		1320		91	44	40			6.0		-46.1		4624.5		255		
		660		91	45	30			6.0		-26.2		4644.4		259		
		0	✓			—	—		5.0		-5.0		4665.6	π	263		
		660		88	19	40			6.0		+13.3		4683.9		267		
		480	✓						0.7		-0.7		4669.9	O	CORNER SECTION	4670'	
		✓	✓						0.7					O			
													0.2' MISTIE				
		480	✓						0.7		+0.7	4670.6		Δ	CORNER SECTION	4670'	
		✓	✓						0.7					Δ			
		0	✓						5.0		-5.0		4665.6	π	263		
		1320		88	14	30			15.0		+25.5		4696.7		271		
		1980		88	18	40			6.0		+52.4		4723.1		275		

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STADIA SURVEY NOTES

AREA GRASS VALLEY STATE NEVADA PAGE No. 5

LINE No. 2 PARTY No. 1743 DATE Day 10 Mo. 7 Yr. 79 BOOK No.

SURVEYOR P. IPPISCH RODMAN WEATHER CLEAR P.T.S. No.

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER: Level	Inclined	Angle or Factor	ROD READING: Hair Read	Reading	Correction	Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS: INST.	ROD	▲ BS O FS − SS	Station	FINAL ELEVATIONS	REMARKS
		2640		87	39	30			15.0		+93.1		4763.7	O	279		
		✓		272	20	40			15.0					O			
		1650		92	12	55			15.0		+78.7	4842.4		△			
		✓		267	47	10			15.0					△			
		990		92	34	50			6.0		-50.6		4791.9		283		
		330		91	56	00			6.0		-17.1		4825.3		287		
		0	✓						5.0		-5.0		4837.4	T	289		
		660		89	07	35			6.0		+4.1		4846.5		293		
		1320		88	50	00			6.0		+20.9		4863.3		297		
		1650		88	42	35			6.0		+31.2		4873.6		299		EOL

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AREA GRASS VALLEY STATE NEVADA PAGE No. 6

LINE No. 3 PARTY No. 1743 DATE Day 10 Mo. 7 Yr. 79 BOOK No.

SURVEYOR R. TIPPICH RODMAN WEATHER CLEAR P.T.S. No.

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER: Level	Inclined	Angle or Factor	ROD READING: Hair Read	Reading	Correction	Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS: INST.	ROD	▲ BS / ○ FS / – SS	Station	FINAL ELEVATIONS	REMARKS
		1320		88	03	30			15.0			4870.0			101		
		660		88	44	50			6.0		+8.4		4878.5		105		
		0	✓						5.0		-5.0		4865.0	T	109		
		660		91	01	20			6.0		-17.8		4852.3		103		
		1320		91	16	30			6.0		-35.3		4834.7		117		
		1980		91	20	45			6.0		-52.4		4817.6		121		
		2145		91	09	00			15.0		-58.0		4812.0	○	122		
		✓		268	50	50			15.0					○			NOTES WORKED
		2640		88	19	00			15.0		-62.7	4749.3		△			BACKWARDS
		✓		271	41	05			15.0					△			
		1980		88	32	50			6.0		+44.3		4793.7		126		
		1320		88	35	10			6.0		+26.6		4776.0		130		
		660		88	35	50			6.0		+10.2		4759.6		134		
		0	✓						5.0		-5.0		4744.3	T	138		
		1600	✓						11.4		-11.3		4738.0		BM	4738	
		✓	✓						11.4								
		660		90	48	50			6.0		-15.4		4737.0		142		
		1320		90	55	30			6.0		-27.3		4722.1		146		

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STADIA SURVEY NOTES

AREA GRASS VALLEY STATE NEVADA PAGE No. 7

LINE No. 3 PARTY No. 1743 DATE Day 10 Mo. 7 Yr. 79 BOOK No.

SURVEYOR R IPPISCH RODMAN WEATHER CLEAR P.T.S. No.

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER: Level	Inclined	Angle or Factor	ROD READING: Hair Read	Reading	Correction	Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS: INST.	ROD	▲ BS O FS - SS	Station	FINAL ELEVATIONS	REMARKS
		1980		90	53	35			6.0		-36.8		4712.6		150		
		2640		90	38	55			15.0		-44.9		4704.5	0	154		
		″		269	20	35			15.0					0			
		2640		89	15	10			15.0		-13.7	4684.8		Δ			
		″		270	45	10			15.0					Δ			
		1980		89	31	30			6.0		+10.5		4695.3		158		
		1320		89	30	00			6.0		+5.6		4690.3		162		
		660		89	25	40			6.0		+0.6		4685.4		166		
		0	″						5.0		-5.0		4679.8	π	170		
		660		90	17	00			6.0		-9.3		4675.5		174		
		1320		90	07	50			6.0		-9.0		4675.8		178		
		1980		89	53	30			6.0		-2.2		4682.6		182		
		2640		89	34	35			15.0		+4.6		4689.4	0	186		
		″		270	25	15			15.0					0			
		2640		90	36	35			15.0		+43.0	4732.3		Δ			
		″		269	23	25			15.0					Δ			
		1980		90	49	25			6.0		-34.4		4697.9		190		

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AS.S VALLEY STATE NEVADA PAGE No. 3

S PARTY No. 1743 DATE Day 10 Mo. 7 Yr. 79 BOOK No.

PPLS C-14 RODMAN WEATHER CLEAR P.T.S. No.

Stadia Distance	BEAMAN OR VERNIER: Level	Inclined	Angle or Factor	ROD READING: Hair Read	Reading	Correction	Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS: INST.	ROD	▲ BS 0 FS – SS	Station	FINAL ELEVATIONS	REMARKS
														(, , ,)	
1320		90	55	10			6.0		-27.1		4705.2		194	, , , ,	
660		90	55	50			6.0		-16.7		4715.6		198	, , , ,	
0	✓						5.0		-5.0		4727.3	T	202	, , , ,	
660		89	09	00			6.0		+3.8		4736.1		206	, , , ,	
1320		89	09	00			6.0		+13.6		4745.9		210	, , , ,	
1980		89	08	20			18.0		+11.8		4744.2		214	, , , ,	
2640		88	57	15			15.0		+37.9		4770.2	0	218	, , , ,	
✓		271	08	45			15.0					0		, , , ,	
														, , , ,	
1980		91	12	10			15.0		+56.5	4826.7		Δ		, , , ,	
✓		268	47	50			15.0					Δ		, , , ,	
1320		91	28	00			6.0		-39.8		4787.0		222	, , , ,	
660		91	39	50			6.0		-25.2		4801.6		226	, , , ,	
0	✓						5.0		-5.0		4821.7	T	230	, , , ,	
120	✓						3.3		-3.3		4823.4			RD ELEV. 4824	0.6 MILE
660		88	20	20			6.0		+13.1		4839.9		234	, , , ,	
1320		88	21	20			6.0		+31.9		4858.6		238	, , , ,	
1980		88	13	50			6.0		+55.2		4881.9		242	, , , ,	
														, , , ,	

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STADIA SURVEY NOTES

AREA GRASS VALLEY STATE NEVADA PAGE No. 4

LINE No. 3 PARTY No. 1743 DATE Day 10 Mo. 7 Yr. 79 BOOK No.

SURVEYOR R ERBISCH RODMAN WEATHER CLEAR P.T.S. No.

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER: Level	Inclined	Angle or Factor	ROD READING: Hair Read	Reading	Correction	Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS: INST.	ROD	▲ BS 0 FS - SS	Station	FINAL ELEVATIONS	REMARKS
		2640		8 8	0 0	50			15.0		+76.6		4903.4	0	246		
		″		2 7 1	5 9	10			15.0					0			
		2640		9 1	4 0	50			15.0		+92.2	4995.6		△			
		″		2 6 8	1 9	15			15.0					△			
		1980		9 1	5 6	10			6.0		-72.8		4922.8		250		
		1320		9 1	5 7	20			6.0		-51.0		4944.6		254		
		660		9 1	5 3	20			6.0		-27.7		4967.9		258		
		0	″	—	—	—	—		5.0	—	-5.0	—	4990.6	T	262		
		660		8 7	3 7	10			6.0		+21.4		5017.0		266		
		1320		8 7	4 1	30			6.0		+47.2		5042.8		270		
		1980		8 7	4 0	00			6.0		+74.7		5070.3		274		
		2475		8 7	2 3	20			15.0		+98.0		5093.6	0	277		
		″		2 7 2	3 7	00			15.0					0			
		960		9 0	5 5	40			5.0		+20.5	5114.1		△			
		930		9 2	1 2	40			6.0		-18.7		5095.4		281		
		0	″						5.0		-5.0	—	5109.1	T	283	EOL	

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STADIA SURVEY NOTES

AREA: GRASS VALLEY STATE: NEVADA PAGE No. 1

LINE No. 4 PARTY No. 1743 DATE Day 10 Mo. 7 Yr. 79 BOOK No.

SURVEYOR: R. IPPISCH RODMAN WEATHER: CLEAR P.T.S. No.

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER: Level	Inclined	Angle or Factor	ROD READING: Hair Read	Reading	Correction	Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS: INST.	ROD	▲ BS / 0 FS / − SS	Station	FINAL ELEVATIONS	REMARKS
		0	✓						5.4			5249.7	5244.7	▲	101		
		660		91	51	30			6.0		-27.4		5222.3		105		
		1320		92	05	40			6.0		-54.7		5195.5		109		
		1980		91	55	40			6.0		-72.5		5177.1		103		
		2640		91	42	15			15.0		+93.4		5156.3	0	117		
		✓		268	17	45			15.0					0			
		0	✓						5.3		+5.3	5161.6		▲	117		
		660		91	09	00			6.0		-19.2		5142.4		121		NOTES WORKED
		990		90	59	10			15.0		-32.0		5129.6	0	123		BACKWARDS
		✓		269	01	05			15.0					0			
		0	✓						5.5		+5.5	5135.1		▲			
		660		92	01	20			6.0		-29.3		5105.8		127		
		1320		91	41	20			6.0		-44.9		5090.3		131		
		1980		91	08	10			6.0		-45.2		5089.9		135		
		2640		90	50	50			15.0		-53.9		5081.2	0	139		
		✓		269	09	10			15.0					0			

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STADIA SURVEY NOTES

AREA GRASS VALLEY STATE NEVADA PAGE No. 2

LINE No. 4 PARTY No. DATE Day 10 Mo. 7 Yr. 79 BOOK No.

SURVEYOR R TROESCH RODMAN WEATHER CLEAR P.T.S. No.

LINE	Bearing or Sight	Stadia or Distance	BEAMAN OR VERNIER: Level	Inclined	Angle or Factor	ROD READING: Hair Read	Reading	Correction	Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS: INST.	ROD	▲ BS O FS − SS	Station	FINAL ELEVATIONS	REMARKS
																	NOTES WORKED BACKWARDS
		0	✓						6.8		+6.8	5088.0		K	139		
		880		89	05	30			5.0		+9.0		5097.0		Rd EL EX 5097		
		660		87	09	10			6.0		-30.8		5057.3		143		
		950		91	28	55			15.0				5048.5	0	145		
		✓		268	31	25			15.0		-39.5			0			
		0	✓						5.6		+5.6	5054.1		K	145		
		660		92	25	10			6.0		-33.9		5020.2		149		
		1320		92	11	15			6.0		-56.3		4997.8		153		
		1980		91	16	30			15.0		-53.0		4995.2		157		
		2640		91	46	10			15.0		-96.4		4957.7	0	161		
		✓		268	13	45			15.0					0			
		0	✓						5.4		+5.4	4963.1		K	161		
		660		90	24	10			6.0		-10.6		4952.5		165		
		1320		91	27	10			6.0		-39.4		4923.7		169		
		1980		91	33	40			6.0		-59.9		4903.3		173		
		2640		91	11	45			15.0		-69.8		4893.4	0	177		
		✓		268	48	45			15.0					0			

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STADIA SURVEY NOTES

AREA GRASS VALLEY STATE NEVADA PAGE No. 3

LINE No. 4 PARTY No. 1743 DATE Day 10 Mo. 7 Yr. 79 BOOK No.

SURVEYOR R. IPPISCH RODMAN WEATHER CLEAR P.T.S. No.

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER: Level	Inclined	Angle or Factor	ROD READING: Hair Read	Reading	Correction	Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS: INST.	ROD	▲ BS O FS — SS	Station	FINAL ELEVATIONS	REMARKS
		0	✓						5.5		+5.5	4898.9		T	177		
		660		91	03	40			6.0		-18.2		4880.6		181		
		1320		91	04	50			6.0		-30.9		4868.0		185		
		1980		90	52	10			6.0		-36.0		4862.9		189		
		2640		90	38	10			15.0				4854.7	0	193		
		✓		269	21	45			15.0		-44.2			0			
		0	✓						5.4		+5.4	4860.1		T			
		660		91	23	00			6.0		-21.9		4838.1		197		
		1320		90	56	10			6.0		-27.5		4832.5		201		
		1815		90	51	50			15.0		-42.5		4817.6	0	204		
		✓		269	07	30			15.0					0			
		0	✓						5.4		+5.4	4823.0		T	204		
		660		91	22	50			6.0		-21.9		4801.1		208		
		1320		90	49	20			6.0		-24.9		4798.1		212		
		1980		90	38	40			6.0		-28.2		4794.8		216		

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STADIA SURVEY NOTES

AREA GRASS VALLEY STATE NEVADA PAGE No. 4

LINE No. 4 PARTY No. 1743 DATE Day 10 Mo. 7 Yr. 19 BOOK No.

SURVEYOR R IPPISCH RODMAN WEATHER CLEAR P.T.S. No.

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER: Level	Inclined	Angle or Factor	ROD READING: Hair Read	Reading	Correction	Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS: INST.	ROD	▲ BS 0 FS − SS	Station	FINAL ELEVATIONS	REMARKS
		2640		0 0	24	15			15.0		-33.5		4789.5	0	220		
		✓		269	35	40			15.0					0			
		0	✓						5.4		+5.4	4794.9		T	220		
		1420		89	20	45			15.0		+1.3		4796.1		BM	4802 ✓	5.9 MISTIE
		✓		270	39	20			15.0								
		660		90	30	45			6.0		-11.9		4783.0		224		
		1320		90	30	40			6.0		-17.7		4777.1		228		
		1980		90	15	00			15.0		-23.5		4771.4	0	232		
		✓		269	45	10			15.0					0			
		0	✓						5.4		+5.4	4776.8		T			
		660		90	33	30			6.0		-12.4		4764.3		236		
		1320		90	31	00			6.0		-17.9		4758.9		240		
		1980		90	22	30			6.0		-18.9		4757.9		244		
		2640		89	52	00			15.0		-8.8		4768.0	0	248		
		✓		270	07	45			15.0					0			

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STADIA SURVEY NOTES

AREA GRASS VALLEY STATE NEVADA PAGE No. 15

LINE No. 4 PARTY No. 1743 DATE Day 10 Mo. 7 Yr. 79 BOOK No.

SURVEYOR R IPPISCH RODMAN WEATHER CLEAR P.T.S. No.

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER: Level	BEAMAN OR VERNIER: Inclined	BEAMAN OR VERNIER: Angle or Factor	ROD READING: Hair Read	ROD READING: Reading	ROD READING: Correction	ROD READING: Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS: INST.	ELEVATIONS: ROD	± BS / O FS / − SS	Station	FINAL ELEVATIONS	REMARKS
		0	✓						5.4		+5.4	4773.4		±	248		
		660		87	35	30			6.0		+21.7		4795.1		252		
		1320		86	58	10			6.0		+63.8		4837.2		256		
		1640		86	25	20			6.0		+96.4		4869.8		258		EOL

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LAND SEISMIC RECORDING LOG

CLIENT: SUN | PROSPECT: GRASS VALLEY | AREA: NEVADA | LINE NO: 1

PARTY NO: 1743 | INST. ENG: B BARNS, D CZECHOWICZ | DATE: MO 7 DAY 5 YR 79

INSTRUMENT (9-TRACK)
☑ 1 SYSTEM ☐ 2 SYSTEMS | ☑ 1-24 & 25-48 ☐ 48 & 49-96 ☐ ODDS & EVENS | TYPE: ☐ DFS III ☐ DFS IV ☑ DFS V ☐ OTHER FT-1 | ☐ 9 TRACK ☐ 21 TRACK | FORMAT: SEG B | ☐ GAPPED ☐ UNGAPPED | PACKING DENSITY: (LO) ☐ 356 BPI ☐ 800 BPI (HI) ☐ 712 BPI ☐ 1600 BPI
NO. BYTES IN HEADER REC: 216 | NO. BYTES IN RECORD ID: 40 | NO. BYTES PER SCAN: 254 | RECORD NUMBERS: ☑ DEC. ☐ OCT. | GAIN CONSTANT: 48 db | INPUT IMPEDANCE: ohms

CONFIGURATION (MAG TAPE)
FIELD TRACE NOS.: | DATA CHANNEL NOS.: 49→96 ((ON MAG TAPE) | AUXILIARY DATA: 94 98 99 (4) (5) (6) (7) | AUXILIARY CHANNEL NOS.: PILOT SWEEPS, MS

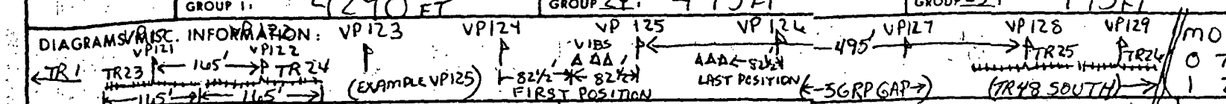
PARAMETER DISPLAY CFS I
RECORD LENGTH: 16 sec. | SAMPLE RATE: ☐ 1 ms. ☑ 4 ms. ☐ 2 ms. ☐ ___ ms. | GAIN MODE: ☐ INITIAL ☐ MANUAL ☑ FP ☐ FINAL ☐ OPERATE | FILTERS: FREQ. 72 LO CUT HZ SLOPE 8 | FREQ. 72 HI CUT HZ SLOPE 64 | NOTCH FILTER: ☑ IN ☐ OUT
MODE: ☑ AGC ☐ FLOAT ☐ AMPLIFIER ☐ DEFLOAT ☐ DIRECT | INITIAL GAIN: 48 db | TRIP SENS: ___ db | POLARITY CONVENTION: | PRESSURE INCREASE ON GEOPHONE: ☐ NEGATIVE ☐ POSITIVE } NUMBERS ON MAG. TAPE | ☐ DOWNBREAK ☐ UPBREAK } ON DISPLAY
TYPE STACK: | GATE LENGTH: | RECORD REJECTION: | NOISE REDUCTION: | NOISE THRESHOLD: | CORR. SCALING: | R.C.U. NORM/ALT SW.

SOURCE
TYPE: ☐ DYNAMITE ☑ VIBROSEIS ☐ OTHER 3 VIBS | PATTERN: INLINE | NO. OF POSITIONS: 12 | INLINE SPACING: | LATERAL SPACING: | STAGGER: | LENGTH: | WIDTH: | LATERAL OFFSET:
CHG/HOLE: | HOLE DEPTH: | SWEEP POSITION: | SWEEP START: 12HZ | SWEEP END: 56HZ | SWEEP LENGTH: 12SEC | SWEEP TAPER: 0.5SEC | PHASE COMP: IN

RECEIVER
TYPE: GEOSPACE 20D | PATTERN: INLINE | NO. OF ELEMENTS: 24 | INLINE SPACING: 7FT | LATERAL SPACING:
CONNECTION: SERIES | RESISTANCE: ohms | STAGGER: | LENGTH: 165FT | WIDTH: | LATERAL OFFSET:

SPREAD
NO. OF GROUPS: 48 | GROUP INTERVAL: 165FT | SHOTPOINT INTERVAL: 330FT | FOLD: 12 | DIRECTION OF PROGRESSION: SOUTH
OFFSET GROUP 1: 4290FT | OFFSET GROUP 24: 495FT | OFFSET GROUP 25: 495FT | OFFSET GROUP 48/~~96~~: 4290FT | LEADING GROUP: 48

DIAGRAMS/MISC. INFORMATION:



MO DAY YR PTY # LINE#
0 7 0 5 7 9 1 7 4 3 0 1
1 2 3 4 5 6 7 8 9 10 11 12 CONSTANTS

SHOTPOINT	TR. ___ to CORR. REEL NO.	REC.	TR ___ to STACK REEL NO.	REC.	SIZE	DEPTH	NO.	OFFSET	DIR.
1101	792381	5001		1			1		
1103		5002		2			2		
1105		5003		3			3		
1107		5004		4			4		
1109		5005		5			5		
1111		5006		6			6		
1113		5007		7			7		
1115		5008		8			8		
1117		5009		9			9		
1119		5010		10			10		
1121		5011		11			11		
1123		5012		12			12		
1125		5013		13			13		
1127		5014		14			14		
1129		5015		15			15		
1131		5016		16			16		
1133		5017		17			17		
1135		5018		18			18		
1137		5019		19			19		
1139		5020		20			20		

CDP SWITCH	TR1 LINE GROUPS TR48	SET UP
170	VP 104 – VP127	1
172	VP106 – VP129	
174	VP101 – VP131	
176	VP101 – VP133	
178	VP101 – VP135	
180	VP101 – VP137	
182	VP101 – VP139	
184	VP101 – VP141	
186	VP101 – VP143	
188	VP101 – VP145	
190	VP101 – VP147	
192	VP101 – VP149	
194	VP101 – VP151	
196	VP101 – VP153	
198	VP103 – VP155	
200	VP105 – VP157	
202	VP107 – VP159	
204	VP109 – VP161	
206	VP111 – VP163	
208	VP113 – VP165	

REMARKS: TAPE REC

CORR. STACK TR 1-48 HT.	REC.	TR 48-96 HT.	REC.

DAILY TEST RUN ON 792381 – #1 – #1/4

SET UP AT VP172

*NOTE: 2 VIBRATORS – 16 SWEEPS PER VP – VP103 ON

*NOTE: SHOOTING INTO NEW LINE – VP101 FIRST VP

*NOTE: 3 VIBRATORS – 12 SWEEPS PER VP – VP113 ON

LAND SEISMIC RECORDING LOG

CLIENT: SUN | PROSPECT: GRASS VALLEY | AREA: NEVADA | LINE NO: 1

PARTY NO: 1743 | INST. ENG: | DATE: MO 7 DAY 5 YR 79

INSTRUMENT (9-TRACK): ☑ 1 SYSTEM ☐ 2 SYSTEMS | ☑ 1-24 & 25-48 ☐ 1-48 & 49-96 | ☐ ODDS & EVENS | TYPE: ☐ DFS III ☐ DFS IV ☑ DFS V ☐ OTHER FT-1 | ☐ 9 TRACK ☐ 21 TRACK | FORMAT: SEG B | ☐ GAPPED ☐ UNGAPPED | PACKING DENSITY: (LO) ☐ 356 BPI ☐ 800 BPI (HI) ☐ 712 BPI ☑ 1600 BPI

CONFIGURATION (MAG TAPE): NO. BYTES IN HEADER REC: 216 | NO. BYTES IN RECORD ID: 40 | NO. BYTES PER SCAN: 254 | RECORD NUMBERS: ☑ DEC. ☐ OCT. | GAIN CONSTANT: 48 db | INPUT IMPEDANCE: ohms.

FIELD TRACE NOS.: | DATA CHANNEL NOS.: 49 → 96 (ON MAG TAPE) | AUXILIARY DATA: (4) 94 (5) 98 (6) 99 (7) | AUXILIARY CHANNEL NOS.: PILOT SWEEP SIMS

PARAMETER: RECORD LENGTH: 16 sec. | SAMPLE RATE: ☐ 1 ms. ☑ 4 ms. ☐ 2 ms. ☐ ms. | GAIN MODE: ☐ TFP ☐ INITIAL ☐ FINAL ☐ MANUAL ☐ OPERATE | FILTERS: FREQ. 72 LO CUT HZ SLOPE 8 | FREQ. 72 HI CUT HZ SLOPE 64 | NOTCH FILTER: ☐ IN ☐ OUT

DISPLAY: MODE: ☑ AGC ☐ DEFLOAT ☐ FLOAT ☐ AMPLIFIER ☐ DIRECT | INITIAL GAIN: 48 db | TRIP SENS: db | POLARITY CONVENTION: | PRESSURE INCREASE ON GEOPHONE: ☐ NEGATIVE ☑ POSITIVE } NUMBERS ON MAG. TAPE | ☑ DOWNBREAK ☐ UPBREAK } ON DISPLAY

CFS I: TYPE STACK: | GATE LENGTH: | RECORD REJECTION: | NOISE REDUCTION: | NOISE THRESHOLD: | CORR. SCALING: | R.C.U. NORM/ALT SW.

SOURCE: TYPE: ☐ DYNAMITE ☑ VIBROSEIS ☐ OTHER 3 VIBS | PATTERN: INLINE | NO. OF POSITIONS: 12 | INLINE SPACING: | LATERAL SPACING: | STAGGER: | LENGTH: | WIDTH: | LATERAL OFFSET:

CHG/HOLE: | HOLE DEPTH: | SWEEP POSITION: | SWEEP START: 12HZ | SWEEP END: 56HZ | SWEEP LENGTH: 12SEC | SWEEP TAPER: 0.5SEC | PHASE COMP: IN

RECEIVER: TYPE: | PATTERN: | NO. OF ELEMENTS: | INLINE SPACING: | LATERAL SPACING:

CONNECTION: | RESISTANCE: ohms | STAGGER: | LENGTH: | WIDTH: | LATERAL OFFSET:

SPREAD: NO. OF GROUPS: | GROUP INTERVAL: | SHOTPOINT INTERVAL: | FOLD: | DIRECTION OF PROGRESSION:

OFFSET GROUP 1: | OFFSET GROUP ____: | OFFSET GROUP ____: | OFFSET GROUP 48/96: | LEADING GROUP:

DIAGRAMS/MISC. INFORMATION:

TR

SHOTPOINT	BPI	TR. ____ to CORR REEL NO.	CORR REC.	TR. ____ to STACK REEL NO.	STACK REC.	SHOT SIZE	SHOT DEPTH	SHOT NO.	SHOT OFFSET	SHOT DIR.	CDP SWITCH	SPREAD TR1 LINE GROUPS TR48	SET UP	REMARKS:	CORR. STACK TR 1-48 HT.	CORR. STACK TR 1-48 REC.	CORR. STACK TR 48-96 HT.	CORR. STACK TR 48-96 REC.
1141		2 7921381	5021		121			21			210	VP115 – VP167	1					
1143			5022		122			22			212	VP117 – VP169						
1145			5023		123			23			214	VP119 – VP171						
1147			5025		125			24			216	VP121 – VP173		OMIT REC #'S (CORR STACK) 5024, 24				
1149			5024		124			25			218	VP123 – VP175						
1151			5027		127			26			220	VP125 – VP177						
1153			5028		128			27			222	VP127 – VP179						
1155			5029		129			28			224	VP129 – VP181						
1157			5030		130			29			226	VP131 – VP183		TAPE CHANGE				
1159		2 7921382	5031		131			30			228	VP133 – VP185						
1161			5032		132			31			230	VP135 – VP187						
1163			5033		133			32			232	VP137 – VP189						
1165			5034		134			33			234	VP139 – VP191						
1167			5035		135			34			236	VP141 – VP193						
1169			5036		136			35			238	VP143 – VP195						
1171			5037		137			36			0	VP145 – VP197						
1173			5038		138			37			2	VP147 – VP199						
1175			5039		139			38			4	VP149 – VP201						
1177			5040		140			39			6	VP151 – VP203						
1179			5041		141			40			8	VP153 – VP205						

LAND SEISMIC RECORDING LOG

CLIENT: SUN | PROSPECT: ~~GRASS VALLEY~~ NEVADA | AREA: NEVADA | LINE NO: 1

PARTY NO: 1743 | INST. ENG: | DATE: MO 7 DAY 5 YR 79

INSTRUMENT (9-TRACK): ☑ 1 SYSTEM ☐ 2 SYSTEMS | ☑ 1-24 & 25-48 ☐ 1-48 & 49-96 ☐ ODDS & EVENS | TYPE: ☐ DFS III ☐ DFS IV ☑ DFS V ☐ OTHER FT-1 | ☑ 9 TRACK ☐ 21 TRACK | FORMAT: SEG B | ☑ GAPPED ☐ UNGAPPED | PACKING DENSITY: (LO) ☐ 356 BPI ☐ 800 BPI (HI) ☐ 712 BPI ☑ 1600 BPI

CONFIGURATION (MAG TAPE): NO. BYTES IN HEADER REC: 216 | NO. BYTES IN RECORD ID: 40 | NO. BYTES PER SCAN: 254 | RECORD NUMBERS: ☐ DEC. ☐ OCT. | GAIN CONSTANT: 48 db | INPUT IMPEDANCE: ohms.

FIELD TRACE NOS.:

DATA CHANNEL NOS.: 49→96 (ON MAG TAPE)

AUXILIARY DATA: (4) 94 (5) 98 (6) 99 (7)

AUXILIARY CHANNEL NOS.: PILOT | SWEEP | SUM

PARAMETER DISPLAY CFS I: RECORD LENGTH: 16 sec. | SAMPLE RATE: ☐ 1 ms. ☐ ~~4~~ ms. ☐ 2 ms. ☐ ___ ms. | GAIN MODE: ☐ ~~HFF~~ ☐ INITIAL ☐ FINAL ☐ MANUAL ☐ OPERATE | FILTERS: FREQ. 72 LO CUT HZ SLOPE 8 | FREQ. 72 HI CUT HZ SLOPE 64 | NOTCH FILTER: ☑ IN ☐ OUT

MODE: ☑ AGC ☐ DEFLOAT ☐ FLOAT ☐ AMPLIFIER ☐ DIRECT | INITIAL GAIN: 48 db | TRIP SENS: ___ db | POLARITY CONVENTION: | PRESSURE INCREASE ON GEOPHONE: ☐ NEGATIVE ☑ POSITIVE } NUMBERS ON MAG. TAPE | ☑ DOWNBREAK ☐ UPBREAK } ON DISPLAY

TYPE STACK: | GATE LENGTH: | RECORD REJECTION: | NOISE REDUCTION: | NOISE THRESHOLD: | CORR. SCALING: | R.C.U. NORM/ALT SW.

SOURCE: TYPE: ☐ DYNAMITE ☑ VIBROSEIS ☐ OTHER 3 VIBS | PATTERN: INLINE | NO. OF POSITIONS: 12 | INLINE SPACING: | LATERAL SPACING: | STAGGER: | LENGTH: | WIDTH: | LATERAL OFFSET:

CHG/HOLE: | HOLE DEPTH: | SWEEP POSITION: | SWEEP START: 12 HZ | SWEEP END: 56 HZ | SWEEP LENGTH: 12 SEC | SWEEP TAPER: 0.5 SEC | PHASE COMP: IN

RECEIVER: TYPE: | PATTERN: | NO. OF ELEMENTS: | INLINE SPACING: | LATERAL SPACING:

CONNECTION: | RESISTANCE: ohms | STAGGER: | LENGTH: | WIDTH: | LATERAL OFFSET:

SPREAD: NO. OF GROUPS: | GROUP INTERVAL: | SHOTPOINT INTERVAL: | FOLD: 12 | DIRECTION OF PROGRESSION:

OFFSET GROUP 1: | OFFSET GROUP ___: | OFFSET GROUP ___: | OFFSET GROUP 48/96: | LEADING GROUP:

DIAGRAMS/MISC. INFORMATION:

SHOTPOINT	REF.	TR. ___ to CORR REEL NO.	REC.	TR. ___ to STACK REEL NO.	REC.	SHOT SIZE	DEPTH	NO.	OFFSET	DIR.
181		279	2382	50H2	H2			41		
183				5043	43			42		
185				5044	44			43		
187				5045	45			44		
189				5046	46			45		
191				5048	48			47		
193				5049	49			47		
195				5050	50			48		
197				5051	51			49		
199				5052	52			50		
201				5053	53			51		
203				5054	54			52		
205				5055	55			53		
207				5056	56			54		
209				5057	57			55		
211				5058	58			56		
213				5059	59			57		
215				5060	60			58		
217				5061	61			59		
219				5062	62			60		

CDP SWITCH	TR1 LINE GROUPS TR48	SET UP	REMARKS
10	VP155 - VP207	1	
12	VP157 - VP209		
14	VP159 - VP211		
16	VP161 - VP213		
18	VP163 - VP215		NOTE: 2 VIBS - 16 SWEEPS
20	VP165 - VP217		NOTE: 2 VIBS - 24 SWEEPS, OMIT REC #5 (CORR STACK) (5047, 47)
22	VP167 - VP219		NOTE 2 VIBS - 16 SWEEPS VP193 ON
24	VP169 - VP221		
26	VP171 - VP223		
28	VP173 - VP225		
30	VP175 - VP227		
32	VP177 - VP229		
34	VP179 - VP231		
36	VP181 - VP233		
38	VP183 - VP235		FULL STACK - FIRST POSITION
196	VP185 - VP237	2	SET UP AT VP256
198	VP187 - VP239		
200	VP189 - VP241		
202	VP191 - VP243		
204	VP193 - VP245		NOTE: 3 VIBS - 12 SWEEPS VP219 ON, TAPE CHANGE

CORR. STACK: TR 1-48 HT. | REC. | TR 48-96 HT. | REC.

LAND SEISMIC RECORDING LOG

CLIENT: SUN | PROSPECT: GRASS VALLEY | AREA: NEVADA | LINE NO: 1 | PARTY NO: 1743 | INST. ENG: | DATE: MO 7 DAY 5 YR 79

INSTRUMENT (9-TRACK): ☒ 1 SYSTEM ☐ 2 SYSTEMS | ☒ 1-24 & 25-48 ☐ 1-48 & 49-96 ☐ ODDS & EVENS | TYPE: ☐ DFS III ☐ DFS IV ☒ DFS V ☐ OTHER ET-1 | ☐ 7 TRACK ☐ 21 TRACK | FORMAT: SEG B | ☒ GAPPED ☐ UNGAPPED | PACKING DENSITY: (LO) ☐ 356 BPI ☐ 800 BPI (HI) ☐ 712 BPI ☒ 1600 BPI

CONFIGURATION (MAG TAPE): NO. BYTES IN HEADER REC: 216 | NO. BYTES IN RECORD ID: 40 | NO. BYTES PER SCAN: 254 | RECORD NUMBERS: ☒ DEC. ☐ OCT. | GAIN CONSTANT: 48 db | INPUT IMPEDANCE: ohms. | FIELD TRACE NOS.: | DATA CHANNEL NOS.: 49→96 (ON MAG TAPE) | AUXILIARY DATA: 47 48 49 (4) (5) (6) (7) | AUXILIARY CHANNEL NOS.: PILOT SWEEP SIMS

PARAMETER: RECORD LENGTH: 16 sec. | SAMPLE RATE: ☐ 1 ms. ☒ 4 ms. ☐ 2 ms. ☐ ms. | GAIN MODE: ☒ FP ☐ INITIAL ☐ MANUAL ☐ FINAL ☐ OPERATE | FILTERS: FREQ. 72 LO CUT HZ SLOPE 8 | FREQ. 72 HI CUT HZ SLOPE 44 | NOTCH FILTER: ☐ IN ☐ OUT

DISPLAY: MODE ☐ AGC ☐ FLOAT ☐ DEFLOAT ☐ AMPLIFIER ☐ DIRECT | INITIAL GAIN: 48 db | TRIP SENS: db | POLARITY CONVENTION: | PRESSURE INCREASE ON GEOPHONE: ☐ NEGATIVE ☒ POSITIVE } NUMBERS ON MAG. TAPE | ☒ DOWNBREAK ☐ UPBREAK } ON DISPLAY

CFS I: TYPE STACK: | GATE LENGTH: | RECORD REJECTION: | NOISE REDUCTION: | NOISE THRESHOLD: | CORR. SCALING: | R.C.U. NORM/ALT SW.

SOURCE: TYPE: ☐ DYNAMITE ☐ VIBROSEIS ☐ OTHER 3 VIBS | PATTERN: INLINE | NO. OF POSITIONS: 12 | INLINE SPACING: | LATERAL SPACING: | STAGGER: | LENGTH: | WIDTH: | LATERAL OFFSET: | CHG/HOLE: | HOLE DEPTH: | SWEEP POSITION: | SWEEP START: 12 HZ | SWEEP END: 56 HZ | SWEEP LENGTH: 12 SEC | SWEEP TAPER: 0.5 SEC | PHASE COMP: 0.5 IN

RECEIVER: TYPE: | PATTERN: | NO. OF ELEMENTS: | INLINE SPACING: | LATERAL SPACING: | CONNECTION: | RESISTANCE: ohms | STAGGER: | LENGTH: | WIDTH: | LATERAL OFFSET:

SPREAD: NO. OF GROUPS: | GROUP INTERVAL: | SHOTPOINT INTERVAL: | FOLD: 12 | DIRECTION OF PROGRESSION: | OFFSET GROUP 1: | OFFSET GROUP ____: | OFFSET GROUP ____: | OFFSET GROUP 48/96: | LEADING GROUP:

DIAGRAMS/MISC. INFORMATION:

SHOTPOINT	R.P.T.	TR. ____ to CORR REEL NO.	CORR REC.	TR ____ to STACK REEL NO.	STACK REC.	SHOT SIZE	SHOT DEPTH	SHOT NO.	SHOT OFFSET	SHOT DIR.	SPREAD CDP SWITCH	SPREAD TR) LINE GROUPS TR 48	SPREAD SET UP	REMARKS:	CORR. STACK TR 1-48 HT.	CORR. STACK TR 1-48 REC.	CORR. STACK TR 48-96 HT.	CORR. STACK TR 48-96 REC.
1221	Z	7923813	50613		603			601			206	VP195 - VP247	2					
1223			50614		604			602			208	VP197 - VP249						
1225			50615		605			603			210	VP199 - VP251						
1227			50616		606			604			212	VP201 - VP253						
1229			50617		607			605			214	VP203 - VP255						
1231			50618		608			606			216	VP205 - VP257						
1233			50619		609			607			218	VP207 - VP259						
1235			50620		610			608			220	VP209 - VP261						
1237			50621		611			609			222	VP211 - VP263						
1239			50622		612			610			224	VP213 - VP265						
1241			50623		613			611			226	VP215 - VP267						
1243			50624		614			612			228	VP217 - VP269						
1245			50625		615			613			230	VP219 - VP271						
1247			50626		616			614			232	VP221 - VP273						
1249			50627		617			615			234	VP223 - VP275						
1251			50628		618			616			236	VP225 - VP277						
1253			50629		619			617			238	VP227 - VP279						
1255			50630		620			618			240	VP229 - VP281						
1257			50631		621			619			2	VP231 - VP283						
1259			50632		622			620			4	VP233 - VP285						

LAND SEISMIC RECORDING LOG

CLIENT: SUN | PROSPECT: GRASS VALLEY | AREA: NEVADA | LINE NO: 1

PARTY NO: 1743 | INST. ENG: | DATE: MO 7 DAY 5 YR 79

INSTRUMENT (9-TRACK)
- [x] 1 SYSTEM [ ] 2 SYSTEMS
- [x] 1-24 & 25-48 [ ] 1-48 & 49-96 [ ] ODDS & EVENS
- TYPE: [ ] DFS III [ ] DFS IV [x] DFS V [ ] OTHER FT-1
- [x] 7 TRACK [ ] 21 TRACK | FORMAT: SEG. B | [x] GAPPED [ ] UNGAPPED | PACKING DENSITY: (LO) [ ] 356 BPI [ ] 800 BPI (HI) [ ] 712 BPI [x] 1600 BPI
- NO. BYTES IN HEADER REC: 216 | NO. BYTES IN RECORD ID: 40 | NO. BYTES PER SCAN: 254
- RECORD NUMBERS: [x] DEC. [ ] OCT. | GAIN CONSTANT: 48 db | INPUT IMPEDANCE: ohms.

CONFIGURATION (MAG TAPE)
- FIELD TRACE NOS.:
- DATA CHANNEL NOS.: 49→96 (ON MAG TAPE)
- AUXILIARY DATA: 97 98 99 (4) (5) (6) (7)
- AUXILIARY CHANNEL NOS.: PILOT SWEEP SIGS

PARAMETER DISPLAY CFS I
- RECORD LENGTH: 16 sec. | SAMPLE RATE: [ ] 1 ms. [x] 4 ms. [ ] 2 ms. [ ] ___ ms.
- GAIN MODE: [x] ITP [ ] INITIAL [ ] FINAL [ ] MANUAL [ ] OPERATE
- FILTERS: FREQ. 72 LO CUT HZ SLOPE 8 | FREQ. 72 HI CUT HZ SLOPE 64 | NOTCH FILTER: [x] IN [ ] OUT
- MODE: [x] AGC [ ] FLOAT [ ] AMPLIFIER [ ] DEFLOAT [ ] DIRECT
- INITIAL GAIN: 48 db | TRIP SENS: ___ db
- POLARITY CONVENTION: | PRESSURE INCREASE ON GEOPHONE: [ ] NEGATIVE [x] POSITIVE | NUMBERS ON MAG. TAPE: [x] DOWNBREAK [ ] UPBREAK ON DISPLAY
- TYPE STACK: | GATE LENGTH: | RECORD REJECTION:
- NOISE REDUCTION: | NOISE THRESHOLD: | CORR. SCALING: | R.C.U. NORM/ALT SW.

SOURCE
- TYPE: [ ] DYNAMITE [x] VIBROSEIS [ ] OTHER 3 VIBS
- PATTERN: INLINE | CHG/HOLE: | HOLE DEPTH: | NO. OF POSITIONS: 12 | SWEEP POSITION:
- INLINE SPACING: | LATERAL SPACING: | STAGGER: | LENGTH: | WIDTH: | LATERAL OFFSET:
- SWEEP START: 12HZ | SWEEP END: 56HZ | SWEEP LENGTH: 12SEC | SWEEP TAPER: 0.5SEC | PHASE COMP: IN

RECEIVER
- TYPE: | PATTERN: | NO. OF ELEMENTS: | INLINE SPACING: | LATERAL SPACING:
- CONNECTION: | RESISTANCE: ohms | STAGGER: | LENGTH: | WIDTH: | LATERAL OFFSET:

SPREAD
- NO. OF GROUPS: | GROUP INTERVAL: | SHOTPOINT INTERVAL: | FOLD: 12 | DIRECTION OF PROGRESSION:
- OFFSET GROUP 1: | OFFSET GROUP ___: | OFFSET GROUP ___: | OFFSET GROUP 48/96: | LEADING GROUP:

DIAGRAMS/MISC. INFORMATION:

SHOTPOINT	INT.	TR. ___ to CORR REEL NO.	CORR REC.	TR. ___ to STACK REEL NO.	STACK REC.	SHOT SIZE	SHOT DEPTH	SHOT NO.	SHOT OFFSET	SHOT DIR.	CDP SWITCH	SPREAD TR 1 LINE GROUPS TR 48	SET UP	REMARKS	CORR. STACK TR 1-48 HT.	CORR. STACK TR 1-48 REC.	CORR. STACK TR 48-96 HT.	CORR. STACK TR 48-96 REC.
2611		R 7912383	50813		813			81			6	VP 235 - VP 287	2					
2633			5081H		81H			82			8	VP 237 - VP 289						
2655			50815		815			83			10	VP 239 - VP 291						
2677			50816		816			84			12	VP 241 - VP 293						
2699			50817		817			85			14	VP 243 - VP 295						
2711			50818		818			86			16	VP 245 - VP 297						
2733			50819		819			87			18	VP 247 - VP 299		FULL STACK - FIRST POSITION				
2755			50910		910			88			20	VP 249 - VP 301		FIRST HALF STACKED - CENTER POSITION				
2777			50911		911			89			22	VP 251 - VP 303						
2799			50912		912			90			24	VP 253 - VP 305						
2811			50913		913			91			26	VP 255 - VP 307		TAPE CHANGE,				

LAND SEISMIC RECORDING LOG

CLIENT: SUN | PROSPECT: GRASS VALLEY | AREA: NEVADA | LINE NO: 1

PARTY NO: 1743 | INST. ENG: B BARNS D CZECHOWICZ | DATE: MO 7 DAY 6 YR 79

INSTRUMENT (9-TRACK)

☑ 1 SYSTEM ☐ 2 SYSTEMS | ☐ 1-24 & 25-48 ☐ 1-48 & 49-96 ☐ ODDS & EVENS | TYPE: ☐ DFS III ☐ DFS IV ☐ DFS V ☐ OTHER FT-1 | ☐ 9 TRACK ☐ 21 TRACK | FORMAT: SEG B | ☐ GAPPED ☐ UNGAPPED | PACKING DENSITY: [LO] ☐ 356 BPI ☐ 800 BPI [HI] ☐ 712 BPI ☑ 1600 BPI

NO. BYTES IN HEADER REC: 216 | NO. BYTES IN RECORD ID: 40 | NO. BYTES PER SCAN: 254 | RECORD NUMBERS: ☐ DEC. ☐ OCT. | GAIN CONSTANT: 48 db | INPUT IMPEDANCE: ohms.

CONFIGURATION (MAG TAPE)

FIELD TRACE NOS.: | DATA CHANNEL NOS.: TRS 49 → 96 (ON MAG TAPE)

AUXILIARY DATA: (1) 94 (2) 98 (3) 99 (4) (5) (6) (7)

AUXILIARY CHANNEL NOS.: PILOT SWEEP SIMS

PARAMETER DISPLAY CFS I

RECORD LENGTH: 16 sec. | SAMPLE RATE: ☐ 1 ms. ☑ 4 ms. ☐ 2 ms. ☐ ms. | GAIN MODE: ☐ INITIAL ☐ MANUAL ☑ IFP ☐ FINAL ☐ OPERATE | FILTERS: FREQ. 72 LO CUT HZ SLOPE 8 | FREQ. 72 HI CUT HZ SLOPE 64 | NOTCH FILTER: ☐ IN ☐ OUT

MODE: ☑ AGC ☐ DEFLOAT ☐ FLOAT ☐ DIRECT ☐ AMPLIFIER | INITIAL GAIN: 36 db | TRIP SENS: db | POLARITY CONVENTION: | PRESSURE INCREASE ON GEOPHONE: ☐ NEGATIVE ☑ POSITIVE | NUMBERS ON MAG. TAPE: ☐ DOWNBREAK ☐ UPBREAK | ON DISPLAY

TYPE STACK: | GATE LENGTH: | RECORD REJECTION: | NOISE REDUCTION: | NOISE THRESHOLD: | CORR. SCALING: | R.C.U. NORM/ALT SW.

SOURCE

TYPE: ☐ DYNAMITE ☑ VIBROSEIS ☐ OTHER 3 VIBS | PATTERN: INLINE | NO. OF POSITIONS: 12 | INLINE SPACING: | LATERAL SPACING: | STAGGER: | LENGTH: | WIDTH: | LATERAL OFFSET:

CHG/HOLE: | HOLE DEPTH: | SWEEP POSITION: | SWEEP START: 12HZ | SWEEP END: 56HZ | SWEEP LENGTH: 12SEC | SWEEP TAPER: 0.5SEC | PHASE COMP: IN

RECEIVER

TYPE: GEOSPACE 20D | PATTERN: INLINE | NO. OF ELEMENTS: 24 | INLINE SPACING: 7FT | LATERAL SPACING:

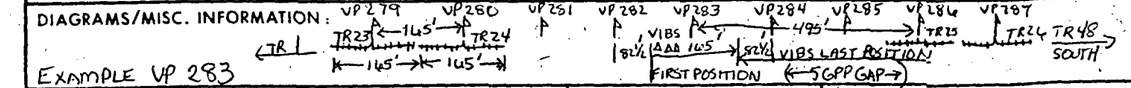
CONNECTION: SERIES | RESISTANCE: ohms | STAGGER: | LENGTH: 165FT | WIDTH: | LATERAL OFFSET:

SPREAD

NO. OF GROUPS: 48 | GROUP INTERVAL: 165FT | SHOTPOINT INTERVAL: 330FT | FOLD: 12 | DIRECTION OF PROGRESSION: SOUTH

OFFSET GROUP 1: 4290FT | OFFSET GROUP 24: 495FT | OFFSET GROUP 25: 495FT | OFFSET GROUP 48/96: 4290FT | LEADING GROUP: 48

DIAGRAMS/MISC. INFORMATION:



EXAMPLE VP 283

MO DAY YR PTY # LINE #

(07)(06)(79)(1743)(01) CONSTANTS

(1 2)(3 4)(5 6)(7 8 9 10)(11 12)

SHOTPOINT	TR. ___ to CORR REEL NO.	REC.	TR. ___ to STACK REEL NO.	REC.	SHOT SIZE	DEPTH	NO.	OFFSET	DIR.	CDP SWITCH	SPREAD TR1 LINE GROUPS TR48	SET UP	REMARKS: TAPE REC
1283	Z 792384	5001		1			1			196	VP257 - VP309	1	DAILY TESTS RUN ON Z 792384, #94→107
1285		5002		2			2			198	VP259 - VP311		LAST HALF STACKED - CENTER POSITION
1287		5003		3			3			200	VP261 - VP313		
1289		5004		4			4			202	VP263 - VP315		
1291		5005		5			5			204	VP265 - VP317		
1293		5006	97	6			6			206	VP267 - VP319		FIRST HALF STACKED - CENTER POSITION
1295		5007		7			7			208	VP269 - VP321		
1297		5008		8			8			210	VP271 - VP323		
1299		5009		9			9			212	VP273 - VP325		
1301		5010		10			10			214	VP275 - VP327		
1303		5011		11			11			216	VP277 - VP329		
1305		5012		12			12			218	VP279 - VP331		
1307		5013		13			13			220	VP281 - VP333		
1309		5014		14			14			222	VP283 - VP335		
1311		5015		15			15			224	VP285 - VP337		
1313		5016		16			16			226	VP287 - VP339		
1315		5017		17			17			228	VP289 - VP341		
1317		5018		18			18			230	VP291 - VP343		
1319		5019		19			19			232	VP293 - VP345		
1321		5020		20			20			234	VP295 - VP347		

CORR. STACK	TR 1-48 HT.	TR 1-48 REC.	TR 48-96 HT.	TR 48-96 REC.

LAND SEISMIC RECORDING LOG

CLIENT: SUN. | PROSPECT: GRASS VALLEY | AREA: NEVADA | LINE NO: 1

PARTY NO: 1743 | INST. ENG: | DATE: MO 7 DAY 6 YR 79

INSTRUMENT (9-TRACK)
- [x] 1 SYSTEM [ ] 2 SYSTEMS
- [x] 1-24 & 25-48 [ ] 1-48 & 49-96 [ ] ODDS & EVENS
- TYPE: [ ] DFS III [ ] DFS IV [x] DFS V [ ] OTHER ET-1
- [x] 9 TRACK [ ] 21 TRACK
- FORMAT: SEG B
- [x] GAPPED [ ] UNGAPPED
- PACKING DENSITY: (LO) [ ] 356 BPI [ ] 800 BPI (HI) [ ] 712 BPI [x] 1600 BPI

CONFIGURATION (MAG TAPE)
- NO. BYTES IN HEADER REC: 216
- NO. BYTES IN RECORD ID: 40
- NO. BYTES PER SCAN: 254
- RECORD NUMBERS: [ ] DEC. [ ] OCT.
- GAIN CONSTANT: 48 db
- INPUT IMPEDANCE: ohms.
- FIELD TRACE NOS.:
- DATA CHANNEL NOS.: 49→96 (ON MAG TAPE)
- AUXILIARY DATA: (1) 96 (2) 95 (3) 97 (4) (5) (6) (7)
- AUXILIARY CHANNEL NOS.: PILOT SWEEP SIMS

PARAMETER DISPLAY CFS I
- RECORD LENGTH: 16 sec.
- SAMPLE RATE: [ ] 1 ms. [x] 4 ms. [ ] 2 ms. [ ] ms.
- GAIN MODE: [x] TFP [ ] INITIAL [ ] FINAL [ ] MANUAL [ ] OPERATE
- FILTERS: FREQ. 72 LO CUT HZ SLOPE 8 FREQ. 72 HI CUT HZ SLOPE 64 NOTCH FILTER: [ ] IN [ ] OUT
- MODE: [x] AGC [ ] FLOAT [ ] DEFLOAT [ ] AMPLIFIER [ ] DIRECT
- INITIAL GAIN: db
- TRIP SENS: db
- POLARITY CONVENTION:
- PRESSURE INCREASE ON GEOPHONE: [ ] NEGATIVE [x] POSITIVE
- NUMBERS ON MAG. TAPE: [x] DOWNBREAK [ ] UPBREAK } ON DISPLAY
- TYPE STACK:
- GATE LENGTH:
- RECORD REJECTION:
- NOISE REDUCTION:
- NOISE THRESHOLD:
- CORR. SCALING:
- R.C.U. NORM/ALT SW.

SOURCE
- TYPE: [ ] DYNAMITE [x] VIBROSEIS [ ] OTHER 3V LBS
- PATTERN: INLINE
- CHG/HOLE:
- HOLE DEPTH:
- NO. OF POSITIONS: 12
- SWEEP POSITION:
- INLINE SPACING:
- SWEEP START: 12 HZ
- LATERAL SPACING:
- SWEEP END: 56 HZ
- STAGGER:
- SWEEP LENGTH: 12 SEC
- LENGTH:
- SWEEP TAPER: 0.5 SEC
- WIDTH:
- PHASE COMP: IN
- LATERAL OFFSET:

RECEIVER
- TYPE:
- PATTERN:
- NO. OF ELEMENTS:
- INLINE SPACING:
- LATERAL SPACING:
- CONNECTION:
- RESISTANCE: ohms
- STAGGER:
- LENGTH:
- WIDTH:
- LATERAL OFFSET:

SPREAD
- NO. OF GROUPS:
- GROUP INTERVAL:
- SHOTPOINT INTERVAL:
- FOLD: 12
- DIRECTION OF PROGRESSION:
- OFFSET GROUP 1:
- OFFSET GROUP ____:
- OFFSET GROUP ____:
- OFFSET GROUP 48/96:
- LEADING GROUP:

DIAGRAMS/MISC. INFORMATION:

SHOTPOINT	RPT.	TR. ____ to CORR REEL NO.	CORR REC.	TR. ____ to STACK REEL NO.	STACK REC.	SHOT SIZE	SHOT DEPTH	SHOT NO.	SHOT OFFSET	SHOT DIR.	SPREAD CDP SWITCH	SPREAD TR1 LINE GROUPS TR48	SET UP	REMARKS	CORR. STACK TR 1-48 HT.	CORR. STACK TR 1-48 REC.	CORR. STACK TR 48-96 HT.	CORR. STACK TR 48-96 REC.
1323		7912381	50121		Z1			21			236	VP297 - VP349	1					
1325			50122		Z2			22			238	VP299 - VP351						
1327			50123		Z3			23			0	VP301 - VP353						
1329			50124	115	Z4			24			2	VP303 - VP355						
1331			50125		Z5			25			4	VP305 - VP357						
1333			50126		Z6			26			6	VP307 - VP359						
1335			50127		Z7			27			8	VP309 - VP361						
1337			50128		Z8			28			10	VP311 - VP363						
1339			50129		Z9			29			12	VP313 - VP365						
1341			50130		Z10			30			14	VP315 - VP367		TAPE CHANGE				
BH3		7912386	50131		Z11			31			16	VP317 - VP369						
1345			50132		Z12			32			18	VP319 - VP371						
1347			50133		Z13			33			20	VP321 - VP373						
1349			50134		Z14			34			22	VP323 - VP375						
1351			50135		Z15			35			24	VP325 - VP377						
1353			50136		Z16			36			26	VP327 - VP379						
1355			50137		Z17			37			28	VP329 - VP381						
1357			50138		Z18			38			30	VP331 - VP383						
1359			50139		Z19			39			32	VP333 - VP385						
1361			50140	191	Z20			40			34	VP335 - VP387						

LAND SEISMIC RECORDING LOG

CLIENT: SUN | PROSPECT: GRASS VALLEY | AREA: NEVADA | LINE NO: 1

PARTY NO: 1743 | INST. ENG: | DATE: MO 7 DAY 6 YR 79

INSTRUMENT (9-TRACK)
- ☒ 1 SYSTEM ☐ 2 SYSTEMS
- ☒ 1-24 & 25-48 ☐ 1-48 & 49-96 ☐ ODDS & EVENS
- TYPE: ☐ DFS III ☐ DFS IV ☐ DFS V ☐ OTHER FT-1
- ☒ 9 TRACK ☐ 21 TRACK
- FORMAT: SEG B
- ☒ GAPPED ☐ UNGAPPED
- PACKING DENSITY: (LO) ☐ 356 BPI ☐ 800 BPI (HI) ☐ 712 BPI ☐ 1600 BPI
- NO. BYTES IN HEADER REC: 216
- NO. BYTES IN RECORD ID: 40
- NO. BYTES PER SCAN: 234
- RECORD NUMBERS: ☐ DEC. ☐ OCT.
- GAIN CONSTANT: 48 db
- INPUT IMPEDANCE: ohms.

CONFIGURATION (MAG TAPE)
- FIELD TRACE NOS.:
- DATA CHANNEL NOS.: 49 → 96 (ON MAG TAPE)
- AUXILIARY DATA: (1) 97 (2) 98 (3) 99 (4) (5) (6) (7)
- AUXILIARY CHANNEL NOS.: PILOT SWEEP SYNC

PARAMETER
- RECORD LENGTH: 11.8 sec.
- SAMPLE RATE: ☐ 1 ms. ☐ 4 ms. ☐ 2 ms. ☐ ms.
- GAIN MODE: ☐ INITIAL ☐ MANUAL ☐ FIXED ☐ FINAL ☐ OPERATE
- FILTERS: FREQ. 72 LO CUT HZ SLOPE 8 FREQ. 72 HI CUT HZ SLOPE 64
- NOTCH FILTER: ☐ IN ☐ OUT

DISPLAY
- MODE: ☐ AGC ☐ FLOAT ☐ DEFLOAT ☐ AMPLIFIER ☐ DIRECT
- INITIAL GAIN: db
- TRIP SENS: db
- POLARITY CONVENTION:
- PRESSURE INCREASE ON GEOPHONE: ☐ NEGATIVE ☐ POSITIVE } NUMBERS ON MAG. TAPE
- ☐ DOWNBREAK ☐ UPBREAK } ON DISPLAY

CFS I
- TYPE STACK:
- GATE LENGTH:
- RECORD REJECTION:
- NOISE REDUCTION:
- NOISE THRESHOLD:
- CORR. SCALING:
- R.C.U. NORM/ALT SW.

SOURCE
- TYPE: ☐ DYNAMITE ☒ VIBROSEIS ☐ OTHER 3 VIBS
- PATTERN: INLINE
- CHG/HOLE:
- HOLE DEPTH:
- NO. OF POSITIONS: 17
- SWEEP POSITION:
- INLINE SPACING:
- LATERAL SPACING:
- STAGGER:
- LENGTH:
- WIDTH:
- LATERAL OFFSET:
- SWEEP START: 12HZ
- SWEEP END: 56HZ
- SWEEP LENGTH: 12SEC
- SWEEP TAPER: 0.5SEC
- PHASE COMP: IN

RECEIVER
- TYPE:
- PATTERN:
- NO. OF ELEMENTS:
- INLINE SPACING:
- LATERAL SPACING:
- CONNECTION:
- RESISTANCE: ohms
- STAGGER:
- LENGTH:
- WIDTH:
- LATERAL OFFSET:

SPREAD
- NO. OF GROUPS:
- GROUP INTERVAL:
- SHOTPOINT INTERVAL:
- FOLD:
- DIRECTION OF PROGRESSION:
- OFFSET GROUP 1:
- OFFSET GROUP ___:
- OFFSET GROUP ___:
- OFFSET GROUP 48/96:
- LEADING GROUP:

DIAGRAMS/MISC. INFORMATION:

SHOTPOINT	TR. ___ to CORR REEL NO.	CORR REC.	TR. ___ to STACK REEL NO.	STACK REC.	SHOT SIZE	SHOT DEPTH	SHOT NO.	SHOT OFFSET	SHOT DIR.	CDP SWITCH	SPREAD TR1 LINE GROUPS TR48	SET UP	REMARKS	CORR. STACK TR 1-48 HT.	CORR. STACK TR 1-48 REC.	CORR. STACK TR 48-96 HT.	CORR. STACK TR 48-96 REC.
1363	7912385	5041		H1			H1			36	VP337 - VP389	1					
1365		5042		H2			H2			38	VP339 - VP391						
1367		5043		H3			H3			40	VP341 - VP393						
1369		5044		H4			H4			42	VP343 - VP395						
1371		5045		H5			H5			44	VP345 - VP397						
1373		5046		H6			H6			4	VP347 - VP399	2	SET UP AT VP370				
1375		5047		H7			H7			6	VP349 - VP401						
1377		5048		H8			H8			8	VP351 - VP403						
1379		5049		H9			H9			10	VP353 - VP405						
1381		5050		50			50			12	VP355 - VP407						
1383		5051		51			51			14	VP357 - VP409						
1385		5052		52			52			16	VP359 - VP411						
1387		5053		53			53			18	VP361 - VP413						
1389		5054		54			54			20	VP363 - VP415						
1391		5055		55			55			22	VP365 - VP417						
1393		5056		56			56			24	VP367 - VP419						
1395		5057		57			57			26	VP369 - VP421		TR AT VP420 DEAD FOR REMAINDER OF SET UP				
1397		5058		58			58			28	VP371 - VP423						
1399		5059		59			59			30	VP373 - VP425						
1401		5060		60			60			32	VP375 - VP427		TAPE CHANGE				

LAND SEISMIC RECORDING LOG

CLIENT: SUN | PROSPECT: GRASS VALLEY | AREA: NEVADA | LINE NO: 1

PARTY NO: 1743 | INST. ENG: | DATE: MO 7 DAY 6 YR 79

INSTRUMENT (9-TRACK): ☒ 1 SYSTEM ☐ 2 SYSTEMS | ☒ 1-24 & 25-48 ☐ 1-48 & 49-96 ☐ ODDS & EVENS | TYPE: ☐ DFS III ☐ DFS IV ☐ DFS V ☐ OTHER FT-1 | ☐ 7 TRACK ☐ 21 TRACK | FORMAT: B | ☐ GAPPED ☐ UNGAPPED | PACKING DENSITY: (LO) ☐ 356 BPI ☐ 800 BPI (HI) ☐ 712 BPI ☐ 1600 BPI

CONFIGURATION (MAG TAPE): NO. BYTES IN HEADER REC: 216 | NO. BYTES IN RECORD ID: 40 | NO. BYTES PER SCAN: 254 | RECORD NUMBERS: ☐ DEC. ☐ OCT. | GAIN CONSTANT: 48 db | INPUT IMPEDANCE: ohms.

FIELD TRACE NOS.:

DATA CHANNEL NOS.: 49→96 (ON MAG TAPE)

AUXILIARY DATA: (4) 94 (5) 96 (6) 97 (7)

AUXILIARY CHANNEL NOS.: PILOT SWEEP SIMS

PARAMETER: RECORD LENGTH: 16 sec. | SAMPLE RATE: ☐ 1 ms. ☒ 4 ms. ☐ 2 ms. ☐ ms. | GAIN MODE: ☒ FIX ☐ INITIAL ☐ MANUAL ☐ FINAL ☐ OPERATE | FILTERS: FREQ. 72 LO CUT HZ SLOPE 8 | FREQ. 72 HI CUT HZ SLOPE 64 | NOTCH FILTER: ☒ IN ☐ OUT

DISPLAY: MODE: ☒ AGC ☐ FLOAT ☐ DEFLOAT ☐ AMPLIFIER ☐ DIRECT | INITIAL GAIN: db | TRIP SENS: db | POLARITY CONVENTION: | PRESSURE INCREASE ON GEOPHONE: ☐ NEGATIVE ☒ POSITIVE | NUMBERS ON MAG. TAPE: ☒ DOWNBREAK ☐ UPBREAK } ON DISPLAY

CFS I: TYPE STACK: | GATE LENGTH: | RECORD REJECTION: | NOISE REDUCTION: | NOISE THRESHOLD: | CORR. SCALING: | R.C.U. NORM/ALT SW.

SOURCE: TYPE: ☐ DYNAMITE ☒ VIBROSEIS ☐ OTHER 3 VIBS | PATTERN: INLINE | NO. OF POSITIONS: 12 | INLINE SPACING: | LATERAL SPACING: | STAGGER: | LENGTH: | WIDTH: | LATERAL OFFSET:

CHG/HOLE: | HOLE DEPTH: | SWEEP POSITION: | SWEEP START: 12HZ | SWEEP END: 56HZ | SWEEP LENGTH: 12SEC | SWEEP TAPER: 0.5SEC | PHASE COMP: IN

RECEIVER: TYPE: | PATTERN: | NO. OF ELEMENTS: | INLINE SPACING: | LATERAL SPACING:

CONNECTION: | RESISTANCE: ohms | STAGGER: | LENGTH: | WIDTH: | LATERAL OFFSET:

SPREAD: NO. OF GROUPS: | GROUP INTERVAL: | SHOTPOINT INTERVAL: | FOLD: 12 | DIRECTION OF PROGRESSION:

OFFSET GROUP 1: | OFFSET GROUP____: | OFFSET GROUP____: | OFFSET GROUP 48/96: | LEADING GROUP:

DIAGRAMS/MISC. INFORMATION:

SHOTPOINT	RPT.	TR. ____ to CORR. REEL NO.	CORR. REC.	TR. ____ to STACK REEL NO.	STACK REC.	SHOT SIZE	SHOT DEPTH	SHOT NO.	SHOT OFFSET	SHOT DIR.	CDP SWITCH	SPREAD TR 1 LINE GROUPS TR 48	SPREAD SHIFT UP	REMARKS:	CORR. STACK TR 1-48 HT.	CORR. STACK TR 1-48 REC.	CORR. STACK TR 48-96 HT.	CORR. STACK TR 48-96 REC.
1403		12	79 2388	50	601			601			34	VP377 - VP429	2					
H05				50	602			602			36	VP379 - VP431						
H07				50	603			603			38	VP381 - VP433						
H09				50	604			604			40	VP383 - VP435						
H11				50	605			605			42	VP385 - VP437						
H13				50	606			606			44	VP387 - VP439						
H15				50	607			607			46	VP389 - VP439		*NOTE: VP 439 LAST VP ON LINE #1 - TAILING OFF				
H17				50	608			608			48	VP391 - VP439						
H19				50	609		160	609			50	VP393 - VP439						
H21				50	710		161	710			52	VP395 - VP439		FIRST HALF STACKED - CENTER POSITION				
H23				50	711		162	711			54	VP397 - VP439						
H25				50	712			712			56	VP399 - VP439						
H27				50	713			713			58	VP401 - VP439						
H29				50	714			714			60	VP403 - VP439						
H31				50	715			715			62	VP405 - VP439						
H33				50	716			716			64	VP407 - VP439						
H35				50	717			717			66	VP409 - VP439						
H37				50	718			718			68	VP411 - VP439		DUE TO 5 GRP GAP - LINE GRP CHANGE				
H39				50	719			719			70	VP413 - VP436		TAPE CHANGE,				
END OF LINE #1																		

LAND SEISMIC RECORDING LOG

Page 1

CLIENT: Sun | PROSPECT: Grass Valley | AREA: Nevada | LINE NO: 2

PARTY NO: 1743 | INST. ENG: B. Barnes | J/O M. Amberger | DATE: MO 7 DAY 7 YR 79

INSTRUMENT (9-TRACK)
☐ 1 SYSTEM ☐ 2 SYSTEMS | ☒ 1-24 & 25-48 ☐ 1-48 & 49-96 | ODDS & EVENS ☒ | TYPE: ☐ DFS III ☐ DFS IV ☒ DFS V ☒ OTHER Ft-1 | ☒ 9 TRACK ☐ 21 TRACK | FORMAT: SEG B | ☒ GAPPED ☒ UNGAPPED | PACKING DENSITY: (LO) ☐ 356 BPI ☐ 800 BPI (HI) ☐ 712 BPI ☒ 1600 BPI

CONFIGURATION (MAG TAPE)
NO. BYTES IN HEADER REC: 516 | NO. BYTES IN RECORD ID: 40 | NO. BYTES PER SCAN: 554
FIELD TRACE NOS.: | DATA CHANNEL NOS.: 49-96 (ON MAG TAPE)
RECORD NUMBERS: ☒ DEC. ☐ OCT. | GAIN CONSTANT: 48 db | INPUT IMPEDANCE: 2.2K ohms.
AUXILIARY DATA: (1) Pilot (2) Sweep (3) Sims (4) (5) (6) (7)
AUXILIARY CHANNEL NOS.: 97 98 99

PARAMETER
RECORD LENGTH: 16 sec. | SAMPLE RATE: ☐ 1 ms. ☒ 4 ms. ☐ 2 ms. ☐ ms. | GAIN MODE: ☐ INITIAL ☐ MANUAL ☒ IFP ☐ FINAL ☐ OPERATE
FILTERS: FREQ. 72 LO CUT HZ SLOPE 8 | FREQ. 72 HI CUT HZ SLOPE 64 | NOTCH FILTER: ☐ IN ☐ OUT

DISPLAY
MODE: ☒ AGC ☐ FLOAT ☐ DEFLOAT ☐ AMPLIFIER ☐ DIRECT | INITIAL GAIN: db | TRIP SENS: db
POLARITY CONVENTION: | PRESSURE INCREASE ON GEOPHONE: ☐ NEGATIVE ☒ POSITIVE | NUMBERS ON MAG. TAPE: ☒ DOWNBREAK ☐ UPBREAK ON DISPLAY

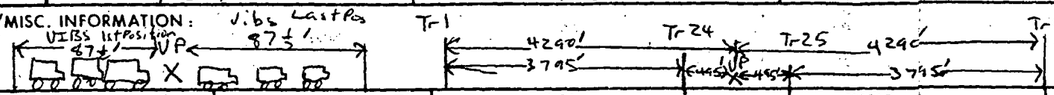
CFS I
TYPE STACK: | GATE LENGTH: | RECORD REJECTION: | NOISE REDUCTION: | NOISE THRESHOLD: | CORR. SCALING: | R.C.U. NORM/ALT SW.

SOURCE
TYPE: ☐ DYNAMITE ☒ VIBROSEIS 3 ☐ OTHER | PATTERN: Inline | NO. OF POSITIONS: 12 | INLINE SPACING: | LATERAL SPACING: | STAGGER: | LENGTH: | WIDTH: | LATERAL OFFSET:
CHG/HOLE: | HOLE DEPTH: | SWEEP POSITION: | SWEEP START: 12 | SWEEP END: 56 | SWEEP LENGTH: 44 | SWEEP TAPER: .5 | PHASE COMP: In

RECEIVER
TYPE: 20D 10Hz | PATTERN: Inline | NO. OF ELEMENTS: 24 | INLINE SPACING: 7' | LATERAL SPACING:
CONNECTION: | RESISTANCE: 200 ohms | STAGGER: | LENGTH: 165' | WIDTH: | LATERAL OFFSET:

SPREAD
NO. OF GROUPS: 48 | GROUP INTERVAL: 165' | SHOTPOINT INTERVAL: 330' | FOLD: 12 | DIRECTION OF PROGRESSION: West
OFFSET GROUP 1: 4290 | OFFSET GROUP 24: 495' | OFFSET GROUP 25: 495 | OFFSET GROUP 48/96: 4290 | LEADING GROUP: 48

DIAGRAMS/MISC. INFORMATION:



SHOTPOINT	TR. ___ to Corr	TR. ___ to 5K	SHOT					SPREAD			REMARKS: Rec #s 1-16 Daily tests	CORR. STACK TR 1-48	CORR. STACK TR 48-96
	REEL NO. / REC.	REEL NO. / REC.	SIZE	DEPTH	NO.	OFFSET	DIR.	CDP SWITCH	LINE GROPS	SET UP		HT. / REC.	HT. / REC.
1091	7938 / 5001	0001			1			188	104	127 154	3 Vibs 12 Sweeps Tailing On Line		2
1093	2	2			2			190	104	129			
1095	3	3			3			192	101	131			
1097	4	4			4			194	103	133			
1099	5	5			5			196	105	135			
1111	6	6			6			198	101	137			
1113	7	7			7			200	101	139			
1115	8	8			8			202	101	141			
1117	9	9			9			204	101	143			
1119	10	10			10			206	101	145			
1121	11	11			11			208	101	147			
1123	12	12			12			210	101	149			
1125	13	13			13			212	101	151			
1127	14	14			14			214	101	153			
1129	15	15			15			216	103	155			
1131	16	16			16			218	105	157			
1133	17	17			17			220	107	159	2 Vibs 16 Sweeps		
1135	18	18			18			222	109	161			
1137	20	20			19			224	111	163	3 Vibs 12 Sweeps Rec#s 5019 and 19 No Good		
1139	22	22			20			226	113	165	Rec#s 5021 and 21 No Good Dist Parity		
141	23	23			21			228	115	167	VP 139 stacked Last Half		

LAND SEISMIC RECORDING LOG

CLIENT: Sun | PROSPECT: Grass Valley | AREA: Nevada | LINE NO: 2

PARTY NO: 1743 | INST. ENG: B. Barnes | J10 | M. Amberger | DATE: MO 7 DAY 7 YR 79

INSTRUMENT (9-TRACK): ☐ 1 SYSTEM ☐ 2 SYSTEMS | ☐ 1-24 & 25-48 ☐ 1-48 & 49-96 ☐ ODDS & EVENS | TYPE: ☐ DFS III ☐ DFS IV ☐ DFS V ☐ OTHER ____ | ☐ 9 TRACK ☐ 21 TRACK | FORMAT: SEG ____ ☐ GAPPED ☐ UNGAPPED | PACKING DENSITY: (LO) ☐ 356 BPI ☐ 800 BPI (HI) ☐ 712 BPI ☐ 1600 BPI

NO. BYTES IN HEADER REC: | NO. BYTES IN RECORD ID: | NO. BYTES PER SCAN: | RECORD NUMBERS: ☐ DEC. ☐ OCT. | GAIN CONSTANT: ____ db | INPUT IMPEDANCE: ____ ohms.

CONFIGURATION (MAG TAPE): FIELD TRACE NOS.: | DATA CHANNEL NOS.: (ON MAG TAPE) | AUXILIARY DATA: (1) (2) (3) (4) (5) (6) (7) | AUXILIARY CHANNEL NOS.:

PARAMETER: RECORD LENGTH: ____ sec. | SAMPLE RATE: ☐ 1 ms. ☐ 4 ms. ☐ 2 ms. ☐ ____ ms. | GAIN MODE: ☐ IFP ☐ INITIAL ☐ FINAL ☐ MANUAL ☐ OPERATE | FILTERS: LO CUT FREQ. ____ HZ SLOPE ____ HI CUT FREQ. ____ HZ SLOPE ____ NOTCH FILTER: ☐ IN ☐ OUT

DISPLAY: MODE: ☐ AGC ☐ FLOAT ☐ DEFLOAT ☐ AMPLIFIER ☐ DIRECT | INITIAL GAIN: ____ db | JRIP SENS: ____ db | POLARITY CONVENTION: | PRESSURE INCREASE ON GEOPHONE: ☐ NEGATIVE ☐ POSITIVE | NUMBERS ON MAG. TAPE ☐ DOWNBREAK ☐ UPBREAK ON DISPLAY

CFS I: TYPE STACK: | GATE LENGTH: | RECORD REJECTION: | NOISE REDUCTION: | NOISE THRESHOLD: | CORR. SCALING: | R.C.U. NORM/ALT SW.

SOURCE: TYPE: ☐ DYNAMITE ☐ VIBROSEIS ☐ OTHER ____ | PATTERN: | NO. OF POSITIONS: | INLINE SPACING: | LATERAL SPACING: | STAGGER: | LENGTH: | WIDTH: | LATERAL OFFSET:

CHG/HOLE: | HOLE DEPTH: | SWEEP POSITION: | SWEEP START: | SWEEP END: | SWEEP LENGTH: | SWEEP TAPER: | PHASE COMP:

RECEIVER: TYPE: | PATTERN: | NO. OF ELEMENTS: | INLINE SPACING: | LATERAL SPACING:

CONNECTION: | RESISTANCE: ____ ohms | STAGGER: | LENGTH: | WIDTH: | LATERAL OFFSET:

SPREAD: NO. OF GROUPS: | GROUP INTERVAL: | SHOTPOINT INTERVAL: | FOLD: | DIRECTION OF PROGRESSION:

OFFSET GROUP 1: | OFFSET GROUP ____: | OFFSET GROUP ____: | OFFSET GROUP 48/96: | LEADING GROUP:

DIAGRAMS/MISC. INFORMATION:

SHOTPOINT INT.	TR. ____ to Corr REEL NO.	TR. ____ to SK REEL NO.	SHOT SIZE	SHOT DEPTH	SHOT NO.	SHOT OFFSET	SHOT DIR.	SPREAD CDP SWITCH	SPREAD LINE GROUPS	SPREAD SET UP	REMARKS	CORR. STACK TR 1-48 REC.	CORR. STACK TR 48-96 REC.
1143	79123187	010224			22			230	117 169				
1145	25	25			23			232	119 171				
1147	26	~~25~~			24			234	121 173		No Stack Record		
1149	79123188 5027	27			25			236	123 175		Tape Change		
1151	28	28			26			238	125 177				
1153	29	29			27			~~240~~	127 179				
1155	30	30			28			2	129 181		First Half Stacked Center of UP Second Half Normal		
1157	31	31			29			4	131 183				
1159	32	32			30			6	133 185				
1161	33	33			31			8	135 187		First Half Stacked Center of UP		
1163	34	34			32			10	137 189				
1165	35	35			33			12	139 191				
1167	36	36			34			14	141 193		2 V.ibs 16 Sweeps		
1169	37	37			35			16	143 195				
1171	38	38			36			18	145 197				
1173	39	39			37			20	147 199				
1175	40	40			38			22	149 201				
1177	41	41			39			24	151 203				
1179	42	42			40			26	153 205				
1181	43	43			41			28	155 207				
183	44	44			42			30	157 209				

LAND SEISMIC RECORDING LOG

CLIENT: Sun | PROSPECT: Grass Valley | AREA: Nevada | LINE NO: 2

PARTY NO: 1743 | INST. ENG: B. Barnes Jim Amberger | DATE: MO 7 DAY 7 YR 79

INSTRUMENT (9-TRACK)

☐ 1 SYSTEM ☐ 2 SYSTEMS | ☐ 1-24 & 25-48 ☐ 1-48 & 49-96 ☐ ODDS & EVENS | TYPE: ☐ DFS III ☐ DFS IV ☐ DFS V ☐ OTHER ____ | ☐ 9 TRACK ☐ 21 TRACK | FORMAT: SEG ____ ☐ GAPPED ☐ UNGAPPED | PACKING DENSITY: (LO) ☐ 356 BPI ☐ 800 BPI (HI) ☐ 712 BPI ☐ 1600 BPI

NO. BYTES IN HEADER REC: | NO. BYTES IN RECORD ID: | NO. BYTES PER SCAN: | RECORD NUMBERS: ☐ DEC. ☐ OCT. | GAIN CONSTANT: ____ db | INPUT IMPEDANCE: ____ ohms.

CONFIGURATION (MAG TAPE)

FIELD TRACE NOS.: | DATA CHANNEL NOS.: (ON MAG TAPE) | AUXILIARY DATA: (1) (2) (3) (4) (5) (6) (7) | AUXILIARY CHANNEL NOS.:

PARAMETER DISPLAY CFS I

RECORD LENGTH: ____ sec. | SAMPLE RATE: ☐ 1 ms. ☐ 4 ms. ☐ 2 ms. ☐ ____ ms. | GAIN MODE: ☐ INITIAL ☐ MANUAL ☐ IFP ☐ FINAL ☐ OPERATE | FILTERS: FREQ. ____ LO CUT HZ SLOPE ____ FREQ. ____ HI CUT HZ SLOPE ____ NOTCH FILTER: ☐ IN ☐ OUT

MODE: ☐ FLOAT ☐ AMPLIFIER ☐ AGC ☐ DEFLOAT ☐ DIRECT | INITIAL GAIN: ____ db | TRIP SENS: ____ db | POLARITY CONVENTION: | PRESSURE INCREASE ON GEOPHONE: ☐ NEGATIVE ☐ POSITIVE } NUMBERS ON MAG. TAPE | ☐ DOWNBREAK ☐ UPBREAK } ON DISPLAY

TYPE STACK: | GATE LENGTH: | RECORD REJECTION: | NOISE REDUCTION: | NOISE THRESHOLD: | CORR. SCALING: | R.C.U. NORM/ALT SW.

SOURCE

TYPE: ☐ DYNAMITE ☐ VIBROSEIS ☐ OTHER ____ | PATTERN: | NO. OF POSITIONS: | INLINE SPACING: | LATERAL SPACING: | STAGGER: | LENGTH: | WIDTH: | LATERAL OFFSET:

CHG/HOLE: | HOLE DEPTH: | SWEEP POSITION: | SWEEP START: | SWEEP END: | SWEEP LENGTH: | SWEEP TAPER: | PHASE COMP:

RECEIVER

TYPE: | PATTERN: | NO. OF ELEMENTS: | INLINE SPACING: | LATERAL SPACING:

CONNECTION: | RESISTANCE: ohms | STAGGER: | LENGTH: | WIDTH: | LATERAL OFFSET:

SPREAD

NO. OF GROUPS: | GROUP INTERVAL: | SHOTPOINT INTERVAL: | FOLD: | DIRECTION OF PROGRESSION:

OFFSET GROUP 1: | OFFSET GROUP ____: | OFFSET GROUP ____: | OFFSET GROUP 48/96: | LEADING GROUP:

DIAGRAMS/MISC. INFORMATION:

SHOTPOINT	PT.	TR. ____ to ____ REEL NO.	REC.	TR. ____ to ____ REEL NO.	REC.	SHOT SIZE	DEPTH	NO.	OFFSET	DIR.	SPREAD CDP SWITCH	LINE GROUPS		SET UP	REMARKS:	CORR. STACK TR 1-48 HT.	TR 1-48 REC.	TR 48-96 HT.	TR 48-96 REC.
1 5/16		7 9 12	13 16	17 22	23 26	27 29	30 32		35 37										
1805		7912	3845		0045			43			32	159	211		2 Vibs 16 Sweeps				
1807			46		46			44			34	161	213						
1809			47					45			36	163	215		Lost Stack Record				
1811			48		46			46			38	165	217						
1813			49		49			47			40	167	219						
1815			50		50			48			42	169	221						
1817			51		51			49			206	171	223	#2	At VP 232				
1819			52		52			50			208	173	225						
2011			53		53			51			210	175	227						
2013			55		55			52			212	177	229		~~COP Set for VP 205~~	Rec#s	5054	No	Good
2015			56		56			53			214	179	231						
2017			57		57			54			216	181	233						
2019			58		58			55			218	183	235		3 Vibs 12 Sweeps				
2111			59		59			56			220	185	237						
2113			60		60			57			222	187	239						
2115			61		61			58			224	189	241						

LAND SEISMIC RECORDING LOG

CLIENT: Sun | PROSPECT: Grass Valley | AREA: Nevada | LINE NO: 2

PARTY NO: 1743 | INST. ENG: B. Barnes | J10 M. Amberger | DATE: MO 7 DAY 8 YR 79

INSTRUMENT (9-TRACK): [X] 1 SYSTEM [ ] 2 SYSTEMS | [X] 1-24 & 25-48 [ ] 1-48 & 49-96 | [X] ODDS & EVENS | TYPE: [ ] DFS III [ ] DFS IV [X] DFS V [X] OTHER Ft-1 | [X] 9 TRACK [ ] 21 TRACK | FORMAT: SEG B | [X] GAPPED [X] UNGAPPED | PACKING DENSITY: (LO) [ ] 356 BPI [ ] 800 BPI (HI) [ ] 712 BPI [X] 1600 BPI

NO. BYTES IN HEADER REC: 40 | NO. BYTES IN RECORD ID: 216 | NO. BYTES PER SCAN: 254 | RECORD NUMBERS: [X] DEC. [ ] OCT. | GAIN CONSTANT: (1) (2) 48 (3) db (4) (5) (6) (7) | INPUT IMPEDANCE: 2.2K ohms.

CONFIGURATION (MAG TAPE): FIELD TRACE NOS.: | DATA CHANNEL NOS.: 49-96 (ON MAG TAPE) | AUXILIARY DATA: | AUXILIARY CHANNEL NOS.: 97 98 99

PARAMETER: RECORD LENGTH: 16 sec. | SAMPLE RATE: [ ] 1 ms. [X] 4 ms. [ ] 2 ms. [ ] ___ ms. | GAIN MODE: [X] IFP [ ] INITIAL [ ] FINAL [ ] MANUAL [ ] OPERATE | FILTERS: FREQ. 72 LO CUT HZ SLOPE 8 | FREQ. 72 HI CUT HZ SLOPE 64 | NOTCH FILTER: [X] IN [ ] OUT

DISPLAY: MODE: [X] AGC [ ] FLOAT [ ] AMPLIFIER [ ] DEFLOAT [ ] DIRECT | INITIAL GAIN: ___ db | TRIP SENS: ___ db | POLARITY CONVENTION: | PRESSURE INCREASE ON GEOPHONE: [ ] NEGATIVE [X] POSITIVE } NUMBERS ON MAG. TAPE | [X] DOWNBREAK [ ] UPBREAK } ON DISPLAY

CFS I: TYPE STACK: Div. | GATE LENGTH: | RECORD REJECTION: | NOISE REDUCTION: | NOISE THRESHOLD: | CORR. SCALING: | R.C.U. NORM/ALT SW. Norm.

SOURCE: TYPE: [ ] DYNAMITE [X] VIBROSEIS 3 [ ] OTHER ___ | PATTERN: Inline | NO. OF POSITIONS: 12 | INLINE SPACING: | LATERAL SPACING: | STAGGER: | LENGTH: | WIDTH: | LATERAL OFFSET:

CHG/HOLE: | HOLE DEPTH: | SWEEP POSITION: | SWEEP START: 12 Hz | SWEEP END: 56 Hz | SWEEP LENGTH: 12 | SWEEP TAPER: .5 | PHASE COMP: In

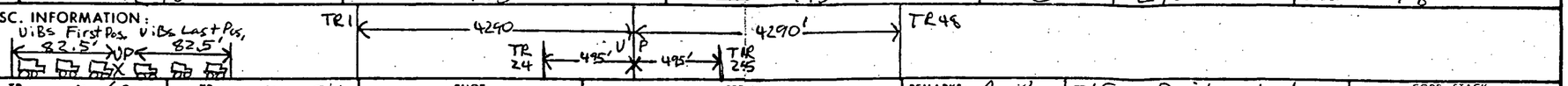
RECEIVER: TYPE: 20D 10Hz | PATTERN: Inline | NO. OF ELEMENTS: 24 | INLINE SPACING: 7' | LATERAL SPACING:

CONNECTION: | RESISTANCE: 200 ohms | STAGGER: | LENGTH: 165' | WIDTH: | LATERAL OFFSET:

SPREAD: NO. OF GROUPS: 48 | GROUP INTERVAL: 165' | SHOTPOINT INTERVAL: 330' | FOLD: 12 | DIRECTION OF PROGRESSION: West

OFFSET GROUP 1: 4290' | OFFSET GROUP 24: 495' | OFFSET GROUP 25: 495' | OFFSET GROUP 48/96: 4290' | LEADING GROUP: 48

DIAGRAMS/MISC. INFORMATION:



SHOTPOINT	REC.	TR. ___ to Corr		TR ___ to SLH		SHOT					SPREAD				REMARKS: Reels 1-15 Daily tests	CORR. STACK TR 1-48 HT.	CORR. STACK TR 1-48 REC.	CORR. STACK TR 48-96 HT.	CORR. STACK TR 48-96 REC.
		REEL NO.	REC.	REEL NO.	REC.	SIZE	DEPTH	NO.	OFFSET	DIR.	CDP SWITCH	#1 LINE GROUPS	#48	SET UP					
1	1	7	1	23	1			1			226	191	243	#1	A+Up 232 3 Vibs 12 Sweeps				
219			2		2			2			228	193	245						
221			3		3			3			230	195	247						
223			4		4			4			232	197	249						
225			5		5			5			234	199	251						
227			6		6			6			236	201	253						
229			7		7			7			238	203	255						
231			8		8			8			0	205	257		3 Vibs 11 Sweeps				
233			9		9			9			2	207	259		3 Vibs 12 Sweeps				
235			10		10			10			4	209	261						
237			11		11			11			6	211	263						
239			12		12			12			8	213	265						
241			13		13			13			10	215	267						
243			14		14			14			12	217	269						
245			15		15			15			14	219	271						
247			16		16			16			16	221	273						
249			17		17			17			18	223	275						
251			18		18			18			20	225	277						
253			19		19			19			22	227	279						
255			20		20			20			24	229	281						
257		21		21		21					26	231	283						

LAND SEISMIC RECORDING LOG

CLIENT: Sun | PROSPECT: Grass Valley | AREA: Nevada | LINE NO: 2

PARTY NO: 1743 | INST. ENG: B. Barnos 510 M. Amberger | DATE: MO 7 DAY 8 YR 79

INSTRUMENT (9-TRACK)
☐ 1 SYSTEM ☐ 2 SYSTEMS | ☐ 1-24 & 25-48 ☐ 1-48 & 49-96 ☐ ODDS & EVENS | TYPE: ☐ DFS III ☐ DFS IV ☐ DFS V ☐ OTHER ____ | ☐ 9 TRACK ☐ 21 TRACK | FORMAT: SEG ____ ☐ GAPPED ☐ UNGAPPED | PACKING DENSITY: (LO) ☐ 356 BPI ☐ 800 BPI (HI) ☐ 712 BPI ☐ 1600 BPI

CONFIGURATION (MAG TAPE)
NO. BYTES IN HEADER REC: | NO. BYTES IN RECORD ID: | NO. BYTES PER SCAN: | RECORD NUMBERS: ☐ DEC. ☐ OCT. | GAIN CONSTANT: ____ db | INPUT IMPEDANCE: ____ ohms.
(1) (2) (3) (4) (5) (6) (7)
FIELD TRACE NOS.: | AUXILIARY DATA:
DATA CHANNEL NOS.: ____ (ON MAG TAP:) | AUXILIARY CHANNEL NOS.:

PARAMETER
RECORD LENGTH: ____ sec. | SAMPLE RATE: ☐ 1 ms. ☐ 4 ms. ☐ 2 ms. ☐ ____ ms. | GAIN MODE: ☐ INITIAL ☐ MANUAL ☐ IFP ☐ FINAL ☐ OPERATE | FILTERS: FREQ. ____ LO CUT HZ SLOPE ____ FREQ. ____ HI CUT HZ SLOPE ____ NOTCH FILTER: ☐ IN ☐ OUT

DISPLAY
MODE: ☐ AGC ☐ FLOAT ☐ DEFLOAT ☐ AMPLIFIER ☐ DIRECT | INITIAL GAIN: ____ db | TRIP SENS: ____ db | POLARITY CONVENTION: | PRESSURE INCREASE ON GEOPHONE: ☐ NEGATIVE ☐ POSITIVE | NUMBERS ON MAG. TAPE: ☐ DOWNBREAK ☐ UPBREAK ON DISPLAY

CFS I
TYPE STACK: | GATE LENGTH: | RECORD REJECTION: | NOISE REDUCTION: | NOISE THRESHOLD: | CORR. SCALING: | R.C.U. NORM./ALT SW.

SOURCE
TYPE: ☐ DYNAMITE ☐ VIBROSEIS ☐ OTHER ____ | PATTERN: | NO. OF POSITIONS: | INLINE SPACING: | LATERAL SPACING: | STAGGER: | LENGTH: | WIDTH: | LATERAL OFFSET:
CHG/HOLE: | HOLE DEPTH: | SWEEP POSITION: | SWEEP START: | SWEEP END: | SWEEP LENGTH: | SWEEP TAPER: | PHASE COMP:

RECEIVER
TYPE: | PATTERN: | NO. OF ELEMENTS: | INLINE SPACING: | LATERAL SPACING:
CONNECTION: | RESISTANCE: ____ ohms | STAGGER: | LENGTH: | WIDTH: | LATERAL OFFSET:

SPREAD
NO. OF GROUPS: | GROUP INTERVAL: | SHOTPOINT INTERVAL: | FOLD: | DIRECTION OF PROGRESSION:
OFFSET GROUP 1: | OFFSET GROUP ____: | OFFSET GROUP ____: | OFFSET GROUP 48/96: | LEADING GROUP:

DIAGRAMS/MISC. INFORMATION:

SHOTPOINT	BPI	TR. ____ to Carr REEL NO.	REC.	TR ____ to Stk REEL NO.	REC.	SHOT SIZE	SHOT DEPTH	SHOT NO.	SHOT OFFSET	SHOT DIR.	CDP SWITCH	SPREAD LINE GROUPS		SET UP	REMARKS:	CORR. STACK TR 1-48 HT.	CORR. STACK TR 1-48 REC.	CORR. STACK TR 48-96 HT.	CORR. STACK TR 48-96 REC.
2159		7923186	50212	00123				27			28	233	285		3Vibs 12 Sweeps				
2161			23		23			23			30	235	287						
2163			24		24			24			32	237	289						
2165			25		25			25			34	239	291						
2167			26		26			26			36	241	293						
2169			27		27			27			38	243	295						
2171			28		28			28			40	245	297						
2173			29		29			29			42	247	299						
2175			30		30			30			44	249	299		Start tailing off Line 2				
2177		7923190	31		31			31			46	251	299		tape change CDP set for UP 275				
2179			32		32			32			48	253	299						
2181			33		33			33			50	255	299						
2183			34		34			34			52	257	11		Stacked Last Half				
2185			35		35			35			54	259	11						
2187			36		36			36			56	261	11						
2189			37		37			37			58	263	11		2 Vibs 16 Sweeps				
2191			38		38			38			60	265	11						
2193			39		39			39			62	267	11						
2195			40		40			40			64	269	11						
2197			41		41			41			66	271	11						
299			42		42			42			68	273	11						

LAND SEISMIC RECORDING LOG

CLIENT: SUN | PROSPECT: GRASS VALLEY | AREA: NEVADA | LINE NO: 3

PARTY NO: 1743 | INST. ENG: B BARNS D CZECHOWICZ | DATE: MO 7 DAY 9 YR 79

INSTRUMENT (9-TRACK)
- ☑ 1 SYSTEM ☐ 2 SYSTEMS
- ☑ 1-24 & 25-48 ☐ 1-48 & 49-96 ☐ ODDS & EVENS
- TYPE: ☐ DFS III ☐ DFS IV ☐ DFS V ☐ OTHER FT-1
- ☐ 9 TRACK ☐ 21 TRACK
- FORMAT: SEG B
- ☐ GAPPED ☐ UNGAPPED
- PACKING DENSITY: (LO) ☐ 356 BPI ☐ 800 BPI (HI) ☐ 712 BPI ☐ 1600 BPI

CONFIGURATION (MAG TAPE)
- NO. BYTES IN HEADER REC: 216
- NO. BYTES IN RECORD ID: 40
- NO. BYTES PER SCAN: 754
- FIELD TRACE NOS.:
- DATA CHANNEL NOS.: 49 → 96 (ON MAG TAPE)
- RECORD NUMBERS: ☐ DEC. ☐ OCT.
- GAIN CONSTANT: 48 db
- INPUT IMPEDANCE: ohms. (4) (5) (6) (7)
- AUXILIARY DATA: 94 98 99
- AUXILIARY CHANNEL NOS.: PILOT SWEEP SIMS

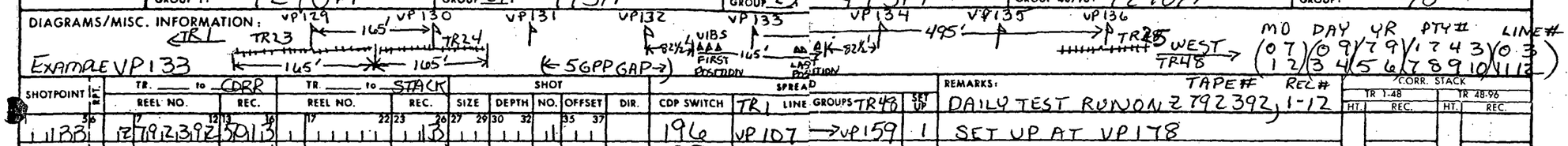
PARAMETER DISPLAY CFS I
- RECORD LENGTH: 16 sec.
- SAMPLE RATE: ☐ 1 ms. ☐ 4 ms. ☐ 2 ms. ☐ ms.
- GAIN MODE: ☐ AGC ☐ INITIAL ☐ FINAL ☐ MANUAL OPERATE
- MODE: ☐ AGC ☐ FLOAT ☐ AMPLIFIER ☐ DEFLOAT ☐ DIRECT
- INITIAL GAIN: db
- TRIP SENS: db
- TYPE STACK:
- GATE LENGTH:
- RECORD REJECTION:
- FILTERS: FREQ. 72 LO CUT HZ SLOPE 8 | FREQ. 72 HI CUT HZ SLOPE 64 | NOTCH FILTER: ☐ IN ☐ OUT
- POLARITY CONVENTION:
- PRESSURE INCREASE ON GEOPHONE: ☐ NEGATIVE ☐ POSITIVE
- NUMBERS ON MAG. TAPE: ☐ DOWNBREAK ☐ UPBREAK ON DISPLAY
- NOISE REDUCTION:
- NOISE THRESHOLD:
- CORR. SCALING:
- R.C.U. NORM/ALT SW.

SOURCE
- TYPE: ☐ DYNAMITE ☑ VIBROSEIS ☐ OTHER 3 VIBS
- PATTERN: INLINE
- NO. OF POSITIONS: 12
- INLINE SPACING: 330 FT
- LATERAL SPACING: 495 FT
- CHG/HOLE:
- HOLE DEPTH:
- SWEEP POSITION: 1
- SWEEP START: 12 HZ
- SWEEP END: 56 HZ
- STAGGER:
- SWEEP LENGTH: 12 SEC
- LENGTH:
- SWEEP TAPER: 0.5 SEC
- WIDTH:
- PHASE COMP: IN
- LATERAL OFFSET:

RECEIVER
- TYPE: GEOSPACE 20D
- PATTERN: INLINE
- NO. OF ELEMENTS: 24
- INLINE SPACING: 165 FT
- LATERAL SPACING:
- CONNECTION: SERIES
- RESISTANCE: ohms
- STAGGER:
- LENGTH: 165 FT
- WIDTH:
- LATERAL OFFSET:

SPREAD
- NO. OF GROUPS: 48
- GROUP INTERVAL: 165 FT
- SHOTPOINT INTERVAL: 330 FT
- FOLD: 12
- DIRECTION OF PROGRESSION: WEST
- OFFSET GROUP 1: 4290 FT
- OFFSET GROUP 24: 495 FT
- OFFSET GROUP 25: 495 FT
- OFFSET GROUP 48/96: 4290 FT
- LEADING GROUP: 48

DIAGRAMS/MISC. INFORMATION:



MO DAY YR PTY# LINE#
(07 09 79 1743 03)
(12 34 56 78 910 112)

SHOTPOINT	REC.	TR. ___ to CORR REEL NO.	REC.	TR. ___ to STACK REEL NO.	REC.	SHOT SIZE	DEPTH	NO.	OFFSET	DIR.	CDP SWITCH	TR1 LINE	SPREAD GROUPS TR48	SET UP	REMARKS: TAPE# REC#
1133		12 79 23 92	5013		13			1			196	VP107 → VP159	1	1	DAILY TEST RUNON Z 792392, 1-12
1135			5014		14			2			198	VP109 – VP161			
1137			5015		15			3			200	VP111 – VP163			
1139			5016		16			4			202	VP113 – VP165			
1141			5017		17			5			204	VP115 – VP167			FIRST HALF STACKED – CENTER POSITION
1143			5018		18			6			206	VP117 – VP169			LOW PARITY ON REC #18
1145			5019		19			7			208	VP119 – VP171			
1147			5020		20			8			210	VP121 – VP173			
1149			5021		21			9			212	VP123 – VP175			
1151			5022		22			10			214	VP125 – VP177			
1153			5023		23			11			216	VP127 – VP199			FIRST HALF STACKED – CENTER POSITION
1155			5024		24			12			218	VP129 – VP181			
1157			5025		25			13			220	VP131 – VP183			
1159			5026		26			14			222	VP133 – VP185			
1161			5027		27			15			224	VP135 – VP187			
1163			5028		28			16			226	VP137 – VP189			
1165			5029		29			17			228	VP139 – VP191			
1167			5030		30			18			230	VP141 – VP193			
1169			5031		31			19			232	VP143 – VP195			
1171			5032		32			20			234	VP145 – VP197			

CORR. STACK

TR 1-48 HT.	TR 1-48 REC.	TR 48-96 HT.	TR 48-96 REC.

LAND SEISMIC RECORDING LOG

CLIENT: SUN | PROSPECT: GRASS VALLEY | AREA: NEVADA | LINE NO: 3

PARTY NO: 1743 | INST. ENG: | DATE: MO 7 DAY 9 YR 79

INSTRUMENT (9-TRACK): ☒ 1 SYSTEM ☐ 2 SYSTEMS | ☒ 1-24 & 25-48 ☐ 1-48 & 49-96 ☐ ODDS & EVENS | TYPE: ☐ DFS III ☐ DFS IV ☒ DFS V ☐ OTHER FT-1 | ☒ 9 TRACK ☐ 21 TRACK | FORMAT: SEG B | ☒ GAPPED ☐ UNGAPPED | PACKING DENSITY: (LO) ☐ 356 BPI ☐ 800 BPI (HI) ☐ 712 BPI ☐ 1600 BPI

CONFIGURATION (MAG TAPE): NO. BYTES IN HEADER REC: 216 | NO. BYTES IN RECORD ID: 40 | NO. BYTES PER SCAN: 254 | RECORD NUMBERS: ☒ DEC ☐ OCT. | GAIN CONSTANT: 48 db | INPUT IMPEDANCE: ohms.

FIELD TRACE NOS.: | DATA CHANNEL NOS.: 49 → 96 (ON MAG TAPE) | AUXILIARY DATA: 94 98 99 (4) (5) (6) (7) | AUXILIARY CHANNEL NOS.: PILOT SWEEP SIMS

PARAMETER: RECORD LENGTH: 16 sec. | SAMPLE RATE: ☐ 1 ms. ☒ 4 ms. ☐ 2 ms. ☐ ms. | GAIN MODE: ☐ INITIAL ☐ MANUAL ☐ FINAL ☐ OPERATE | FILTERS: FREQ. 72 LO CUT HZ SLOPE 8 | FREQ. 72 HI CUT HZ SLOPE 64 | NOTCH FILTER: ☒ IN ☐ OUT

DISPLAY: MODE: ☒ AGC ☐ FLOAT ☐ DEFLOAT ☐ AMPLIFIER ☐ DIRECT | INITIAL GAIN: 1 db | TRIP SENS: db | POLARITY CONVENTION: | PRESSURE INCREASE ON GEOPHONE: ☐ NEGATIVE ☒ POSITIVE } NUMBERS ON ☐ MAG. TAPE ☐ DOWNBREAK ☐ UPBREAK } ON DISPLAY

CFS I: TYPE STACK: | GATE LENGTH: | RECORD REJECTION: | NOISE REDUCTION: | NOISE THRESHOLD: | CORR. SCALING: | R.C.U. NORM./ALT SW.

SOURCE: TYPE: ☐ DYNAMITE ☒ VIBROSEIS ☐ OTHER 3 VIBS | PATTERN: INLINE | NO. OF POSITIONS: 12 | INLINE SPACING: | LATERAL SPACING: | STAGGER: | LENGTH: | WIDTH: | LATERAL OFFSET:

CHG/HOLE: | HOLE DEPTH: | SWEEP POSITION: | SWEEP START: 12 HZ | SWEEP END: 56 HZ | SWEEP LENGTH: 12 SEC | SWEEP TAPER: 0.5 SEC | PHASE COMP: IN

RECEIVER: TYPE: | PATTERN: | NO. OF ELEMENTS: | INLINE SPACING: | LATERAL SPACING:

CONNECTION: | RESISTANCE: ohms | STAGGER: | LENGTH: | WIDTH: | LATERAL OFFSET:

SPREAD: NO. OF GROUPS: | GROUP INTERVAL: | SHOTPOINT INTERVAL: | FOLD: | DIRECTION OF PROGRESSION: WEST

OFFSET GROUP 1: | OFFSET GROUP ____: | OFFSET GROUP ____: | OFFSET GROUP 48/96: | LEADING GROUP:

DIAGRAMS/MISC. INFORMATION:

SHOTPOINT	INT.	TR ____ to CORR REEL NO.	CORR REC.	TR ____ to STACK REEL NO.	STACK REC.	SHOT SIZE	SHOT DEPTH	SHOT NO.	SHOT OFFSET	SHOT DIR.	CDP SWITCH	SPREAD TR 1 LINE GROUPS	TR 48/96	SET UP	REMARKS	CORR. STACK TR 1-48 HT.	CORR. STACK TR 1-48 REC.	CORR. STACK TR 48-96 HT.	CORR. STACK TR 48-96 REC.
1173		2	5033		33			21			236	VP147 → VP199		1	FULL STACK - FIRST POSITION				
1175			5034		34			22	400	W	238	VP149 - VP201			FULL STACK - INLINE OFFSET				
1177			5035		35			23			0	VP151 - VP203			FULL STACK - LAST POSITION				
1179			5036		36			24			2	VP153 - VP205							
1181			5037		37			25			4	VP155 - VP207							
1183			5038		38			26			6	VP157 - VP209							
1185			5039		39			27			8	VP159 - VP211							
1187			5040		40			28			10	VP161 - VP213							
1189			5041		41			29			12	VP163 - VP215							
1191			5042		42			30			14	VP165 - VP217			TAPE CHANGE				
1193		2	5033	5043	43			31			16	VP167 - VP219			TR AT VP219 DEAD REC #S (5043, 43) → ON				
1195			5044		44			32			18	VP169 - VP221							
1197			5045		45			33			20	VP171 - VP223							
1199			5046		46			34			22	VP173 - VP225							
2011			5047		47			35			24	VP175 - VP227							
2033			5048		48			36			26	VP177 - VP229			TR AT VP219 REPAIRED REC #S (5048, 48) → ON				
2055			5049		49			37			28	VP179 - VP231							
2077			5050		50			38			30	VP181 - VP233							
2099			5051		51			39			32	VP183 - VP235							
2111			5052		52			40			34	VP185 - VP237							

LAND SEISMIC RECORDING LOG

CLIENT: SUN | PROSPECT: GRASS VALLEY | AREA: NEVADA | LINE NO: 3

PARTY NO: 1743 | INST. ENG: | DATE: MO 7 DAY 9 YR 79

INSTRUMENT (9-TRACK): ☒ 1 SYSTEM ☐ 2 SYSTEMS | ☒ 1-24 & 25-48 ☐ 1-48 & 49-96 ☐ ODDS & EVENS | TYPE: ☐ DFS III ☐ DFS IV ☒ DFS V ☐ OTHER FT-1 | ☒ 9 TRACK ☐ 21 TRACK | FORMAT: SEG B | ☐ GAPPED ☐ UNGAPPED | PACKING DENSITY: (LO) ☐ 356 BPI ☐ 800 BPI (HI) ☐ 712 BPI ☐ 1600 BPI

NO. BYTES IN HEADER REC: 216 | NO. BYTES IN RECORD ID: 40 | NO. BYTES PER SCAN: 254 | RECORD NUMBERS: ☒ DEC. ☐ OCT. | GAIN CONSTANT: 48 db | INPUT IMPEDANCE: ohms.

CONFIGURATION (MAG TAPE): FIELD TRACE NOS.: | DATA CHANNEL NOS.: 49 → 96 (ON MAG TAPE.) | AUXILIARY DATA: (1) 97 (2) 98 (3) 99 (4) (5) (6) (7) | AUXILIARY CHANNEL NOS.: PILOT SWEEP SUMS

PARAMETER: RECORD LENGTH: 16 sec. | SAMPLE RATE: ☐ 1 ms. ☐ 4 ms. ☐ 2 ms. ☐ ms. | GAIN MODE: ☐ INITIAL ☐ MANUAL ☐ FFP ☐ FINAL ☐ OPERATE | FILTERS: FREQ. 72 LO CUT HZ SLOPE 8 | FREQ. 72 HI CUT HZ SLOPE 64 | NOTCH FILTER: ☒ IN ☐ OUT

DISPLAY: MODS: ☒ AGC ☐ FLOAT ☐ AMPLIFIER ☐ DEFLOAT ☐ DIRECT | INITIAL GAIN: db | TRIP SENS: db | POLARITY CONVENTION: | PRESSURE INCREASE ON GEOPHONE: ☐ NEGATIVE ☒ POSITIVE } NUMBERS ON MAG. TAPE | ☒ DOWNBREAK ☐ UPBREAK } ON DISPLAY

CFS I: TYPE STACK: | GATE LENGTH: | RECORD REJECTION: | NOISE REDUCTION: | NOISE THRESHOLD: | CORR. SCALING: | R.C.U. NORM/ALT SW.

SOURCE: TYPE: ☐ DYNAMITE ☒ VIBROSEIS ☐ OTHER 3 VIBS | PATTERN: INLINE | NO. OF POSITIONS: 12 | INLINE SPACING: | LATERAL SPACING: | STAGGER: | LENGTH: | WIDTH: | LATERAL OFFSET:

CHG/HOLE: | HOLE DEPTH: | SWEEP POSITION: | SWEEP START: 12 HZ | SWEEP END: 56 HZ | SWEEP LENGTH: 12 SEC | SWEEP TAPER: 0.5 SEC | PHASE COMP: IN

RECEIVER: TYPE: | PATTERN: | NO. OF ELEMENTS: | INLINE SPACING: | LATERAL SPACING:

CONNECTION: | RESISTANCE: ohms | STAGGER: | LENGTH: | WIDTH: | LATERAL OFFSET:

SPREAD: NO. OF GROUPS: | GROUP INTERVAL: | SHOTPOINT INTERVAL: | FOLD: | DIRECTION OF PROGRESSION:

OFFSET GROUP 1: | OFFSET GROUP ____: | OFFSET GROUP ____: | OFFSET GROUP 48/96: | LEADING GROUP:

DIAGRAMS/MISC. INFORMATION:

SHOTPOINT	RPT.	TR ____ to ~~START~~ CORR REEL NO.	REC.	TR ____ to ~~CORR~~ STACK REEL NO.	REC.	SHOT SIZE	DEPTH	NO.	OFFSET	DIR.	CDP SWITCH	SPREAD TR / LINE GROUPS TR	SET UP	REMARKS	CORR. STACK TR 1-48 HT.	TR 1-48 REC.	TR 48-96 HT.	TR 48-96 REC.
2113		12	7923933	5053				41			36	VP187 - VP239	1	WIND INCREASING ON SPREAD				
2105				5054				42			38	VP189 - VP241						
2117				5055				43			4	VP191 - VP243	2	SET UP AT VP215				
2119				5056				44			6	VP193 - VP245						
2121				5057				45			8	VP195 - VP247						
2123				5058				46			10	VP197 - VP249						
2125				5059				47			12	VP199 - VP251						
2127				5060				48			14	VP201 - VP253						
2129				5061				49			16	VP203 - VP255						
2131				5062				50			18	VP205 - VP257						
2133				5063				51			20	VP207 - VP259						
2135				5064				52			22	VP209 - VP261						
2137				5065				53			24	VP211 - VP263						
2139				5066				54			26	VP213 - VP265						
2141				5067				55			28	VP215 - VP267						
2143				5068				56			30	VP217 - VP269						
2145				5069				57			32	VP219 - VP271						
2147				5070				58			34	VP221 - VP273						
2149				5071				59			36	VP223 - VP275						
2151				5072				60			38	VP225 - VP277		TAPE CHANGE				

LAND SEISMIC RECORDING LOG

CLIENT: SUN | PROSPECT: GRASS VALLEY | AREA: NEVADA | LINE NO: 3

PARTY NO: 1743 | INST. ENG: | DATE: MO 7 DAY 9 YR 79

INSTRUMENT (9-TRACK): ☐ 1 SYSTEM ☐ 2 SYSTEMS | ☐ 1-24 & 25-48 ☐ 1-48 & 49-96 ☐ ODDS & EVENS | TYPE: ☐ DFS III ☐ DFS IV ~~☐ DFS V~~ ☐ OTHER FT-1 | ~~☐ 9 TRACK~~ ☐ 21 TRACK | FORMAT: SEG B | ~~☐ GAPPED~~ ☐ UNGAPPED | PACKING DENSITY: (LO) ☐ 356 BPI ~~☐ 800 BPI~~ (HI) ☐ 712 BPI ~~☐ 1600 BPI~~

CONFIGURATION (MAG TAPE): NO. BYTES IN HEADER REC: 216 | NO. BYTES IN RECORD ID: 40 | NO. BYTES PER SCAN: 254 | RECORD NUMBERS: ~~☐ DEC~~ ☐ OCT. | GAIN CONSTANT: 48 db | INPUT IMPEDANCE: ohms.

FIELD TRACE NOS.: | DATA CHANNEL NOS.: 49 → 96 (ON MAG TAPE) | AUXILIARY DATA: | AUXILIARY CHANNEL NOS.: (1) (2) (3) (4) (5) (6) (7)

PARAMETER: RECORD LENGTH: 16 sec. | SAMPLE RATE: ☐ 1 ms. ~~☐ 4 ms.~~ ☐ 2 ms. 4 ms. | GAIN MODE: ~~☐ HFP~~ ☐ INITIAL ☐ FINAL ☐ MANUAL ☐ OPERATE | FILTERS: FREQ. 72 LO CUT HZ SLOPE 8 | FREQ. 72 HI CUT HZ SLOPE 64 | NOTCH FILTER: ~~☐ IN~~ ☐ OUT

DISPLAY: MODE: ~~☐ AGC~~ ☐ FLOAT ☐ AMPLIFIER ☐ DEFLOAT ☐ DIRECT | INITIAL GAIN: db | TRIP SENS: db | POLARITY CONVENTION: | PRESSURE INCREASE ON GEOPHONE: ☐ NEGATIVE ~~☐ POSITIVE~~ | NUMBERS ON ON MAG. TAPE: ~~☐ DOWNBREAK~~ ☐ UPBREAK | ON DISPLAY

CFS I: TYPE STACK: | GATE LENGTH: | RECORD REJECTION: | NOISE REDUCTION: | NOISE THRESHOLD: | CORR. SCALING: | R.C.U. NORM/ALT SW.

SOURCE: TYPE: ☐ DYNAMITE ☐ VIBROSEIS ☐ OTHER 3 VIBS | PATTERN: INLINE | NO. OF POSITIONS: 12 | CHG/HOLE: | HOLE DEPTH: | SWEEP POSITION: | INLINE SPACING: | LATERAL SPACING: | STAGGER: | LENGTH: | WIDTH: | LATERAL OFFSET: | SWEEP START: 12HZ | SWEEP END: 56HZ | SWEEP LENGTH: 12SEC | SWEEP TAPER: 0.5SEC | PHASE COMP: IN

RECEIVER: TYPE: | PATTERN: | NO. OF ELEMENTS: | INLINE SPACING: | LATERAL SPACING: | CONNECTION: | RESISTANCE: ohms | STAGGER: | LENGTH: | WIDTH: | LATERAL OFFSET:

SPREAD: NO. OF GROUPS: | GROUP INTERVAL: | SHOTPOINT INTERVAL: | FOLD: | DIRECTION OF PROGRESSION: | OFFSET GROUP 1: | OFFSET GROUP ___: | OFFSET GROUP ___: | OFFSET GROUP 48/96: | LEADING GROUP:

DIAGRAMS/MISC. INFORMATION:

SHOTPOINT	TR. ___ to CORR REEL NO.	TR. ___ to CORR REC.	TR. ___ to STACK REEL NO.	TR. ___ to STACK REC.	SHOT SIZE	SHOT DEPTH	SHOT NO.	SHOT OFFSET	SHOT DIR.	CDP SWITCH	SPREAD LINE GROUPS TR1	SPREAD TR48	SET UP	REMARKS:	CORR. STACK TR 1-48 HT.	CORR. STACK TR 1-48 REC.	CORR. STACK TR 48-96 HT.	CORR. STACK TR 48-96 REC.
2513	12 79239 14	50713		713			61			40	VP 227 - VP 279		2					
2515		50714		714			62			42	VP 229 - VP 281							
2517		50715		715			63			44	VP 231 - VP 283							
2519		50716		716			64			46	VP 233 - VP 283			*NOTE: TAILING OFF OF LINE #3, VP 283 IS LAST VP				
2611		50717		717			65			48	VP 235 - VP 283							
2613		50718		718			66			50	VP 237 - VP 283							
2615		50719		719			67			52	VP 239 - VP 283							
2617		5080		80			68			54	VP 241 - VP 283							
2619		5081		81			69			56	VP 243 - VP 285							
2711		5082		82			70			58	VP 245 - VP 283							
2713		50813		813			71			60	VP 247 - VP 283							
2715		5084		84			72			62	VP 249 - VP 283							
2717		5085		85			73			64	VP 251 - VP 283							
2719		5086		86			74			66	VP 253 - VP 283							
281		5087		87			75			68	VP 255 - VP 278			FIRST HALF STACKED - CENTER POSITION				
283		5088		88			76			70	VP 257 - VP 280			TAPE CHANGE				
END OF LINE #3																		

LAND SEISMIC RECORDING LOG

CLIENT: Sun | PROSPECT: Grass Valley | AREA: Nevada | LINE NO: 4

PARTY NO: 1743 | INST. ENG: R. Barnes JIO | M. Amberger | DATE: MO 7 DAY 11 YR 79

INSTRUMENT (9-TRACK): [X] 1 SYSTEM [ ] 2 SYSTEMS | [X] 1-24 & 25-48 [ ] 1-48 & 49-96 [X] ODDS & EVENS | TYPE: [ ] DFS III [ ] DFS IV [X] DFS V [X] OTHER Ft-1 | [X] 9 TRACK [ ] 21 TRACK | FORMAT: SEG B | [ ] GAPPED [X] UNGAPPED | PACKING DENSITY: (LO) [ ] 356 BPI [ ] 800 BPI (HI) [ ] 712 BPI [X] 1600 BPI

NO. BYTES IN HEADER REC: 40 | NO. BYTES IN RECORD ID: 216 | NO. BYTES PER SCAN: 254 | RECORD NUMBERS: [X] DEC. [ ] OCT. | GAIN CONSTANT: 48 db | INPUT IMPEDANCE: 2.2K ohms.

CONFIGURATION (MAG TAPE): FIELD TRACE NOS.: | DATA CHANNEL NOS.: 1-48 (ON MAG TAPE) | AUXILIARY DATA: (1) Pilot Sweep (2) Sims (3) (4) (5) (6) (7) | AUXILIARY CHANNEL NOS.: 97 98 99

PARAMETER: RECORD LENGTH: 16 sec. | SAMPLE RATE: [ ] 1 ms. [X] 4 ms. [ ] 2 ms. [ ] ms. | GAIN MODE: [X] IFP [ ] INITIAL [ ] FINAL [ ] MANUAL [ ] OPERATE | FILTERS: FREQ. 72 LO CUT HZ SLOPE 8 | FREQ. 64 HI CUT HZ SLOPE 72 | NOTCH FILTER: [X] IN [ ] OUT

DISPLAY: MODE: [X] AGC [ ] FLOAT [ ] DEFLOAT [ ] AMPLIFIER [ ] DIRECT | INITIAL GAIN: 48 db | TRIP SENS: db | POLARITY CONVENTION: | PRESSURE INCREASE ON GEOPHONE: [ ] NEGATIVE [X] POSITIVE } NUMBERS ON ON MAG. TAPE | [X] DOWNBREAK [ ] UPBREAK } ON DISPLAY

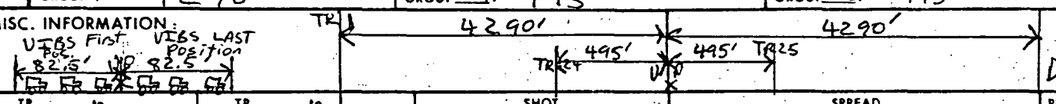
CFS I: TYPE STACK: Div | GATE LENGTH: | RECORD REJECTION: | NOISE REDUCTION: | NOISE THRESHOLD: | CORR. SCALING: | R.C.U. NORM/ALT SW.: Norm

SOURCE: TYPE: [ ] DYNAMITE [X] VIBROSEIS 2 [ ] OTHER | PATTERN: Inline | NO. OF POSITIONS: 16 | INLINE SPACING: | LATERAL SPACING: | STAGGER: | LENGTH: | WIDTH: | LATERAL OFFSET: | CHG/HOLE: | HOLE DEPTH: | SWEEP POSITION: | SWEEP START: 12 | SWEEP END: 56 | SWEEP LENGTH: 12 | SWEEP TAPER: .5 | PHASE COMP: In

RECEIVER: TYPE: 20D 10Hz | PATTERN: Inline | NO. OF ELEMENTS: 24 | INLINE SPACING: 7' | LATERAL SPACING: | CONNECTION: | RESISTANCE: 200 ohms | STAGGER: | LENGTH: 165' | WIDTH: | LATERAL OFFSET:

SPREAD: NO. OF GROUPS: 49 | GROUP INTERVAL: 165' | SHOTPOINT INTERVAL: 330' | FOLD: 12 | DIRECTION OF PROGRESSION: → West | OFFSET GROUP 1: 4290 | OFFSET GROUP 24: 495' | OFFSET GROUP 25: 495' | OFFSET GROUP (48)96: 4290 | LEADING GROUP: 48

DIAGRAMS/MISC. INFORMATION:



Data Channels Now 1-48

SHOTPOINT	REF.	TR. to — REEL NO.	REC.	TR. to — REEL NO.	REC.	SIZE	DEPTH	NO.	OFFSET	DIR.	CDP SWITCH	SPREAD: LINE GROUPS	SET UP	REMARKS: Rec#s 1-9 Daily tests Rec# 10 Single Sweep	CORR. STACK TR 1-48 HT.	TR 1-48 REC.	TR 48-96 HT.	TR 48-96 REC.
101		7912395	103		107A			1			230	104 - 127	160	Rec# 2 No Good 3 Vibs 12 Sweeps				
103			115		126			2			232	104 106 - 129		Ft-1 Down Single Sweeping				
105			127		138			3			234	101 - 131		2 Vibs 12 Sweeps				
107		7912396	139		154			4			236	101 - 133		Tape change 2 Vibs 16 Sweeps				
109			155		170			5			238	101 - 135						
111			171		178			6			0	101 - 137						
111		0000001	179		186			6			0	101 - 139		Tape change				
113			187		1102			7			2	101 - 139						
115			1193		1118			8			4	101 - 141						
117		0000002	1119		1134			9			6	101 - 143		Tape change				
119			1135		1150			10			8	101 - 145						
121			1151		1166			11			10	101 - 147						
121		0000003	1158		1166			11			10	101 - 147		Tape Change				
123			1167		1182			12			12	101 149						
125			1183		1198			13			14	101 151						
127		0000004	1199		2114			14			16	101 153		Tape change				
129			2115		2130			15			18	103 - 155						
131		0000005	5091	Cont	0091	Stop		16			20	105 157		Tape change Ft-1 Up				
133			2		2			17			22	107 159						
139			3		3			18			24	109 161						
137			4		4			19			26	111 163						

LAND SEISMIC RECORDING LOG

Page 2

CLIENT: Sun | PROSPECT: Grass Valley | AREA: Nevada | LINE NO: 4

PARTY NO: 1743 | INST. ENG: B. Barnes J10 M. Amberger | DATE: MO 7 DAY 11 YR 79

INSTRUMENT (9-TRACK): ☐ 1 SYSTEM ☐ 2 SYSTEMS | ☐ 1-24 & 25-48 ☐ 1-48 & 49-96 ☐ ODDS & EVENS | TYPE: ☐ DFS III ☐ DFS IV ☐ DFS V ☐ OTHER | ☐ 9 TRACK ☐ 21 TRACK | FORMAT: SEG ☐ GAPPED ☐ UNGAPPED | PACKING DENSITY: (LO) ☐ 356 BPI ☐ 800 BPI (HI) ☐ 712 BPI ☐ 1600 BPI

NO. BYTES IN HEADER REC: | NO. BYTES IN RECORD ID: | NO. BYTES PER SCAN: | RECORD NUMBERS: ☐ DEC. ☐ OCT. | GAIN CONSTANT: ____ db | INPUT IMPEDANCE: ____ ohms.

CONFIGURATION (MAG TAPE): FIELD TRACE NOS.: | DATA CHANNEL NOS.: (ON MAG TAPE) | AUXILIARY DATA: (1) (2) (3) (4) (5) (6) (7) | AUXILIARY CHANNEL NOS.:

PARAMETER DISPLAY CFS I: RECORD LENGTH: ____ sec. | SAMPLE RATE: ☐ 1 ms. ☐ 4 ms. ☐ 2 ms. ☐ ____ ms. | GAIN MODE: ☐ INITIAL ☐ MANUAL ☐ IFP ☐ FINAL ☐ OPERATE | FILTERS: FREQ. ____ LO CUT HZ SLOPE ____ | FREQ. ____ HI CUT HZ SLOPE ____ | NOTCH FILTER: ☐ IN ☐ OUT

MODE: ☐ FLOAT ☐ AMPLIFIER ☐ AGC ☐ DEFLOAT ☐ DIRECT | INITIAL GAIN: ____ db | TRIP SENS: ____ db | POLARITY CONVENTION: | PRESSURE INCREASE ON GEOPHONE: ☐ NEGATIVE ☐ POSITIVE } NUMBERS ON MAG. TAPE | ☐ DOWNBREAK ☐ UPBREAK } ON DISPLAY

TYPE STACK: | GATE LENGTH: | RECORD REJECTION: | NOISE REDUCTION: | NOISE THRESHOLD: | CORR. SCALING: | R.C.U. NORM/ALT SW.

SOURCE: TYPE: ☐ DYNAMITE ☐ VIBROSEIS ☐ OTHER ____ | PATTERN: | NO. OF POSITIONS: | INLINE SPACING: | LATERAL SPACING: | STAGGER: | LENGTH: | WIDTH: | LATERAL OFFSET:

CHG/HOLE: | HOLE DEPTH: | SWEEP POSITION: | SWEEP START: | SWEEP END: | SWEEP LENGTH: | SWEEP TAPER: | PHASE COMP:

RECEIVER: TYPE: | PATTERN: | NO. OF ELEMENTS: | INLINE SPACING: | LATERAL SPACING:

CONNECTION: | RESISTANCE: ohms | STAGGER: | LENGTH: | WIDTH: | LATERAL OFFSET:

SPREAD: NO. OF GROUPS: | GROUP INTERVAL: | SHOTPOINT INTERVAL: | FOLD: | DIRECTION OF PROGRESSION:

OFFSET GROUP 1: | OFFSET GROUP ____: | OFFSET GROUP ____: | OFFSET GROUP 48/96: | LEADING GROUP:

DIAGRAMS/MISC. INFORMATION:

SHOTPOINT	RPT.	TR. ____ to Corr REEL NO.	REC.	TR. ____ to SIK REEL NO.	REC.	SHOT SIZE	DEPTH	NO.	OFFSET	DIR.	SPREAD CDP SWITCH	LINE GROUPS		SET UP	REMARKS:	CORR. STACK TR 1-48 HT.	TR 1-48 REC.	TR 48-96 HT.	TR 48-96 REC.
1139		9900065	5005		0005			20			28	113	165						
1141			6		6			21			30	115	167		3 Vibs 12 Sweeps				
1143			7		7			22			32	117	169						
1145			8		8			23			34	119	171						
1147			9		9			24			36	121	173						
1149			10		10			25			38	123	175						
1151			11		11			26			40	125	177						
1153			12		12			27			42	127	179						
1155			13		13			28			44	129	181						
1157			14		14			29			46	131	183						
1159			15		15			30			48	133	185						
1161			16		16			31			50	135	187		First Half stacked in Center of up				
1163			17		17			32			52	137	189						
1165			18		18			33			54	139	191						
1167			19		19			34			56	141	193		Last Half stacked In Center of UP				
1169			20		20			35			58	143	195						
1171			21		21			36			60	145	197						
1173			22		22			37			62	147	199		2 Vibs 16 Sweeps				
1175			23		23			38			64	149	201		3 Vibs 12 Sweeps				
1177			24		24			39			66	151	203						
179			25		25			40			68	153	205						

LAND SEISMIC RECORDING LOG

CLIENT: Sun | PROSPECT: Grass Valley | AREA: Nevada | LINE NO: 4

PARTY NO: 1743 | INST. ENG: B. Barnes JIO M. Amberger | DATE: MO 7 DAY 11 YR 79

INSTRUMENT (9-TRACK): ☐ 1 SYSTEM ☐ 2 SYSTEMS | ☐ 1-24 & 25-48 ☐ 1-48 & 49-96 ☐ ODDS & EVENS | TYPE: ☐ DFS III ☐ DFS IV ☐ DFS V ☐ OTHER | ☐ 9 TRACK ☐ 21 TRACK | FORMAT: SEG | ☐ GAPPED ☐ UNGAPPED | PACKING DENSITY: (LO) ☐ 356 BPI ☐ 800 BPI (HI) ☐ 712 BPI ☐ 1600 BPI

NO. BYTES IN HEADER REC: | NO. BYTES IN RECORD ID: | NO. BYTES PER SCAN: | RECORD NUMBERS: ☐ DEC. ☐ OCT. | GAIN CONSTANT: ____ db | INPUT IMPEDANCE: ____ ohms.

CONFIGURATION (MAG TAPE): FIELD TRACE NOS.: | DATA CHANNEL NOS.: (ON MAG TAPE) | AUXILIARY DATA: | AUXILIARY CHANNEL NOS.: (1) (2) (3) (4) (5) (6) (7)

PARAMETER DISPLAY CFS I: RECORD LENGTH: ____ sec. | SAMPLE RATE: ☐ 1 ms. ☐ 4 ms. ☐ 2 ms. ☐ ____ ms. | GAIN MODE: ☐ INITIAL ☐ MANUAL ☐ IFP ☐ FINAL ☐ OPERATE | FILTERS: LO CUT FREQ. ____ HZ SLOPE ____ HI CUT FREQ. ____ HZ SLOPE ____ NOTCH FILTER: ☐ IN ☐ OUT

MODE: ☐ AGC ☐ FLOAT ☐ DEFLOAT ☐ AMPLIFIER ☐ DIRECT | INITIAL GAIN: ____ db | TRIP SENS: ____ db | POLARITY CONVENTION: | PRESSURE INCREASE ON GEOPHONE: ☐ NEGATIVE ☐ POSITIVE | NUMBERS ON ON MAG. TAPE ☐ DOWNBREAK ☐ UPBREAK ON DISPLAY

TYPE STACK: | GATE LENGTH: | RECORD REJECTION: | NOISE REDUCTION: | NOISE THRESHOLD: | CORR. SCALING: | R.C.U. NORM./ALT SW.

SOURCE: TYPE: ☐ DYNAMITE ☐ VIBROSEIS ☐ OTHER ____ | PATTERN: | NO. OF POSITIONS: | INLINE SPACING: | LATERAL SPACING: | STAGGER: | LENGTH: | WIDTH: | LATERAL OFFSET:

CHG/HOLE: | HOLE DEPTH: | SWEEP POSITION: | SWEEP START: | SWEEP END: | SWEEP LENGTH: | SWEEP TAPER: | PHASE COMP:

RECEIVER: TYPE: | PATTERN: | NO. OF ELEMENTS: | INLINE SPACING: | LATERAL SPACING:

CONNECTION: | RESISTANCE: ohms | STAGGER: | LENGTH: | WIDTH: | LATERAL OFFSET:

SPREAD: NO. OF GROUPS: | GROUP INTERVAL: | SHOTPOINT INTERVAL: | FOLD: | DIRECTION OF PROGRESSION:

OFFSET GROUP 1: | OFFSET GROUP ____: | OFFSET GROUP ____: | OFFSET GROUP 48/96: | LEADING GROUP:

DIAGRAMS/MISC. INFORMATION:

SHOTPOINT	RPT.	TR. ____ to Corr. REEL NO.	REC.	TR. ____ to Stk REEL NO.	REC.	SHOT SIZE	DEPTH	NO.	OFFSET	DIR.	SPREAD CDP SWITCH	LINE GROUPS		SET UP	REMARKS	CORR. STACK TR 1-48 HT.	TR 1-48 REC.	TR 48-96 HT.	TR 48-96 REC.
181	56	0000055026		9926				41			70	155	207		3 Vibs 12 Sweeps				
183			27		27			42			72	157	209						
185			28		28			43			74	159	211						
187			29		29			44			76	161	213						
189			30		30			45			78	163	215						
191			31		31			46			80	165	217						
193			32		32			47			82	167	219						
195		0099096	33		33			48			84	169	221		Tape Change				
197			34		34			49			86	171	223						
199			35		35			50			88	173	225						
201			36		36			51			90	175	227		Due to Water in a Farmers				
203			37		37			52			32	177	229	220	Feild Jugs 227 - 239				
205			38		38			53			34	179	231		May Look Abnormal				
207			39		39			54			36	181	233						
209			40		40			55			38	183	235						
211			41		41			56			40	185	237						
213			42		42			57			42	187	237						
215			43		43			58			44	189	241						
217			44		44			60 59			46	191	243						
218			45		45			61 60			48	193	245						
221			46		46			62 61			50	195	247		Stacked on Last Half				

LAND SEISMIC RECORDING LOG

Page 4

CLIENT: Sun | PROSPECT: Grass Valley | AREA: Nevada | LINE NO: 4

PARTY NO: 1743 | INST. ENG: B. Barnes | 510m. Amberger | DATE: MO 7 DAY 11 YR 79

INSTRUMENT (9-TRACK)
☐ 1 SYSTEM ☐ 2 SYSTEMS | ☐ 1-24 & 25-48 ☐ 1-48 & 49-96 ☐ ODDS & EVENS | TYPE: ☐ DFS III ☐ DFS IV ☐ DFS V ☐ OTHER ____ | ☐ 9 TRACK ☐ 21 TRACK | FORMAT: SEG ____ ☐ GAPPED ☐ UNGAPPED | PACKING DENSITY: (LO) ☐ 356 BPI ☐ 800 BPI (HI) ☐ 712 BPI ☐ 1600 BPI

CONFIGURATION (MAG TAPE)
NO. BYTES IN HEADER REC: | NO. BYTES IN RECORD ID: | NO. BYTES PER SCAN: | RECORD NUMBERS: ☐ DEC. ☐ OCT. | GAIN CONSTANT: ____ db | INPUT IMPEDANCE: ____ ohms.
FIELD TRACE NOS.: | AUXILIARY DATA: (1) (2) (3) (4) (5) (6) (7)
DATA CHANNEL NOS.: ____ (ON MAG TAPE) | AUXILIARY CHANNEL NOS.:

PARAMETER DISPLAY CFS I
RECORD LENGTH: ____ sec. | SAMPLE RATE: ☐ 1 ms. ☐ 4 ms. ☐ 2 ms. ☐ ____ ms. | GAIN MODE: ☐ INITIAL ☐ MANUAL ☐ IFP ☐ FINAL ☐ OPERATE | FILTERS: LO CUT FREQ. ____ HZ SLOPE ____ | HI CUT FREQ. ____ HZ SLOPE ____ | NOTCH FILTER: ☐ IN ☐ OUT
MODE: ☐ AGC ☐ FLOAT ☐ DEFLOAT ☐ AMPLIFIER ☐ DIRECT | INITIAL GAIN: ____ db | TRIP SENS: ____ db | POLARITY CONVENTION: | PRESSURE INCREASE ON GEOPHONE: ☐ NEGATIVE ☐ POSITIVE } NUMBERS ON MAG. TAPE | ☐ DOWNBREAK ☐ UPBREAK } ON DISPLAY
TYPE STACK: | GATE LENGTH: | RECORD REJECTION: | NOISE REDUCTION: | NOISE THRESHOLD: | CORR. SCALING: | R.C.U. NORM./ALT SW.

SOURCE
TYPE: ☐ DYNAMITE ☐ VIBROSEIS ☐ OTHER ____ | PATTERN: | NO. OF POSITIONS: | INLINE SPACING: | LATERAL SPACING: | STAGGER: | LENGTH: | WIDTH: | LATERAL OFFSET:
CHG/HOLE: | HOLE DEPTH: | SWEEP POSITION: | SWEEP START: | SWEEP END: | SWEEP LENGTH: | SWEEP TAPER: | PHASE COMP:

RECEIVER
TYPE: | PATTERN: | NO. OF ELEMENTS: | INLINE SPACING: | LATERAL SPACING:
CONNECTION: | RESISTANCE: ohms | STAGGER: | LENGTH: | WIDTH: | LATERAL OFFSET:

SPREAD
NO. OF GROUPS: | GROUP INTERVAL: | SHOTPOINT INTERVAL: | FOLD: | DIRECTION OF PROGRESSION:
OFFSET GROUP 1: | OFFSET GROUP ____: | OFFSET GROUP ____: | OFFSET GROUP 48/96: | LEADING GROUP:

DIAGRAMS/MISC. INFORMATION:

SHOTPOINT	TR. ____ to Cart REEL NO.	TR. ____ to Cart REC.	TR. ____ to Stk REEL NO.	TR. ____ to Stk REC.	SHOT SIZE	SHOT DEPTH	SHOT NO.	SHOT OFFSET	SHOT DIR.	SPREAD CDP SWITCH	SPREAD LINE GROUPS	SPREAD SET UP	REMARKS:	CORR. STACK TR 1-48 HT.	CORR. STACK TR 1-48 REC.	CORR. STACK TR 48-96 HT.	CORR. STACK TR 48-96 REC.
223	0100016	SP147	00147				63	42		52	197 — 249		Last Half Stacked				
225		146		48			64	43		54	199 — 251						
227		149		49			65	40		56	201 — 253		Stacked Cast Half				On line
229		150		50			66	41		60	205 — 258		Stacked on Last Half of UP227		330 ft		Offset to
241		151		51			67	46		70	215 — 256		UP241 Stacked on first		the		East
243		152		52			68	47		7268	217.20 — 256		Half of UP243 330 ft In line Offset				
245	0100017	153		53			69	44		74	219 — 256		UP's 229 — 239 were (Tape Change)				
247		154		54			70	49		76	221 — 256		Skipped Because of a				
249		155		55			71	10		78	223 — 256		Irrigated Feild				
251		156		56			72	11		80	225 — 256		Stk Rec# 52 Was Not Output Properly.				
253		157		57			73	12		82	227 — 256		No EOF Was Written. It is Probably				
255		158		58			74	13		84	229 — 252		a Bad Record				

☐ ARCO Exploration Company ✣
☐ ARCO Oil and Gas Company ✣

Record Of Shipment Of Confidential Information

District: 15-15365

To
Howard P. Ross, Section Head
Geophysics University of Utah Research Ins.
UURI Earth Science Lab
420 Chipeta Way, Suite 120

Salt Lake City, Utah 84108

From
CHARLES SADLER
PH. # 214-422-3170 OR 422-3402
ARCO EXPLORATION COMPANY
2300 WEST PLANO PARKWAY
PLANO, TEXAS 75075

☐ Enclosed ☐ Under separate cover ☑ Via PBA #4650 4426

Subject

Grass Valley

Quantity	Map number & description
5	ORIGINAL tapes #'s J7905774, J7905793, J7905796, J7905799 & 7905803
1	complete set of ORIGINAL documentation

Note—Please verify and acknowledge receipt, by signing and returning the second copy of this transmittal.

Signed by: Carol Leonard — Date: 5/15/84

Received by: Howard P. Ross — Date: 5/18/84

Remarks

AR3B-1370-F

UNIVERSITY OF UTAH RESEARCH INSTITUTE

UURI

EARTH SCIENCE LABORATORY
420 CHIPETA WAY, SUITE 120
SALT LAKE CITY, UTAH 84108
TELEPHONE 801-581-5283

December 30, 1983

ARCO Exploration Co.
Exploration Operations - Western U.S.
707 17th Street
P.O. Box 5540
Denver, CO 80217

Attn: R. G. Ouellette, Director, Geophysical Services

Dear Mr. Ouellette:

Transmitted under separate cover are correlated seismic data tapes for the Grass Valley area, Nevada (shot for SUNOCO) and field data tapes for Dixie Valley, Nevada, as requested by Mr. Dean Fitzgerald, American Geophysical Corporation. An inventory of the data tapes is attached. These seismic data tapes are to be returned to the Earth Science Laboratory/UURI upon completion of copying, and not later than February 1, 1984.

The Earth Science Laboratory/UURI is no longer supported by the Department of Energy or any other agency to provide data distribution services for retrieval, handling and shipping of the data being transmitted. Thus we are invoicing ARCO Exploration Co. for our costs in providing this service, as approved in our earlier discussions with Mr. Dean Fitzgerald. Our invoice is attached.

I regret the delay in responding to this data request and hope that you find the data useful. The data are being shipped via United Parcel Service in four boxes totaling approximately 130 pounds.

Sincerely,

Howard P. Ross

Howard P. Ross
Section Head, Geophysics

HPR/jp

encl.
cc: Mr. D. Fitzgerald
Mr. W. Forsberg

TRANSMITTAL OF SEISMIC DATA TAPES

Box 1 Dixie Valley, Nevada Line 1 - North Field Data Tapes
Line 2

Box 2 Dixie Valley, Nevada Line 1 - North Field Data Tapes
Line 3

Box 4 Dixie Valley, Nevada Line 1 - North Field Data Tapes
Line 1 - South

Box 3 Dixie Valley, Nevada Line 1 - South Field Data Tapes

Box 3 Grass Valley, Nevada Correlated Data Tapes

Reel No.	Line	S.P.'s	Rec. No.
J7905793	1	101-439	5001-5170
J7905796	2	101-299	5001-5098
J7905799	3	101-283	5001-5092
J7905803	4	101-255	5001-5072
J7905774	1,2,3,4		

NOTE: All Dixie Valley tapes are itemized on attached sheets.