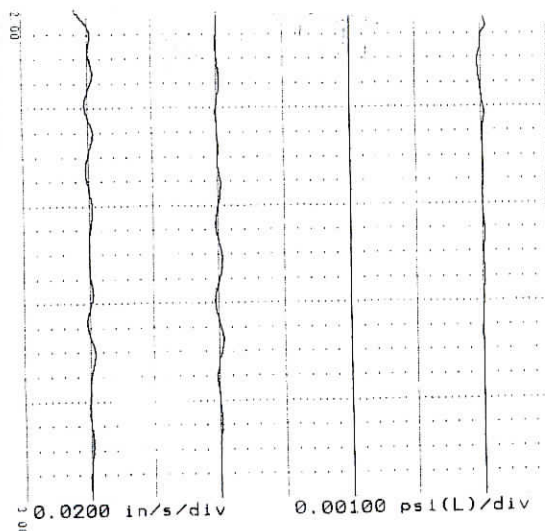


SEISMOGRAPH @ 4495 MONITOR ROCK LANE NEXT TO DR. ZAROWI

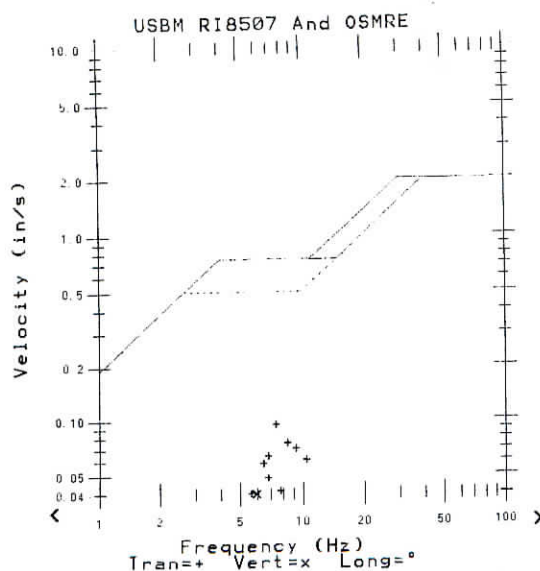


INSTANTEL BlastMate III

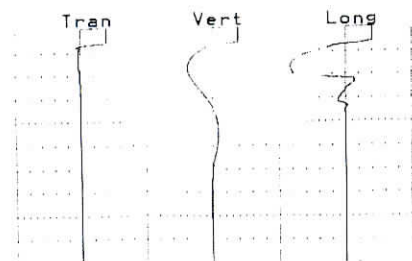
Serial Number BA9241 V 10.30-8.17
Trigger Source Geo 0.00700 in/s
Geo Range 1.25 in/s
Record Time 3.0 s at 1024 sps
SHOT# 20-2011 Manitou, Co.
32 Holes
User: MG
Extended Notes
BATTERIES: 10x13
Scaled Distance 1795.0 ft., 309.0 lb., 102.1

Trigger Vert at 02:16:26 PM Dec 20 11

	Tran	Vert	Long
PPV	0.0944	0.0400	0.00250
ZC Freq	0.566	6.2	>100
Time	0.589	0.447	0.657
Accel	0.0200	0.0133	0.00663
PK Disp	0.00103	0.00001	9 in
PVS	0.0947 in/s at 0.589 Sec		
PSPL	117.2 dB(L) at 1.660 Sec		
	3.1 Hz		

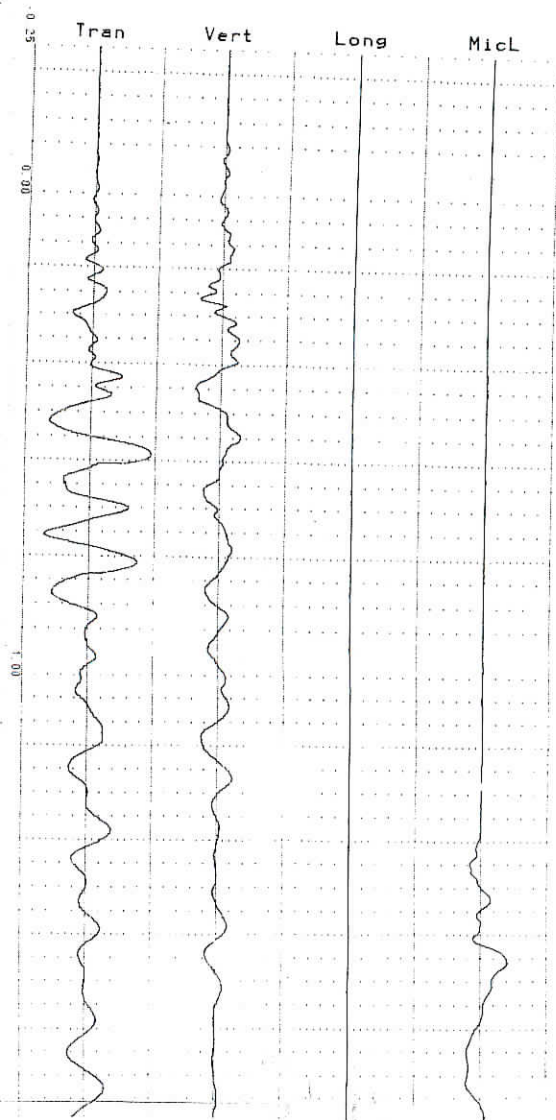


SENSORCHECK CALIBRATION



F1=9.6 OT=7.1 FV=7.4 OV=3.9
FL=13.7 OL=5.4 FM=20.1 PM=590
MicL Passed
Check Tran, Vert, Long
Battery Level: 6.4 Volts

Calibration Name Instantel
Calibration December 6, 2011
Format Copyrighted 1996-2010 Instantel



SEISMOGRAPH @ 4495 MONITOR ROCK LAKE

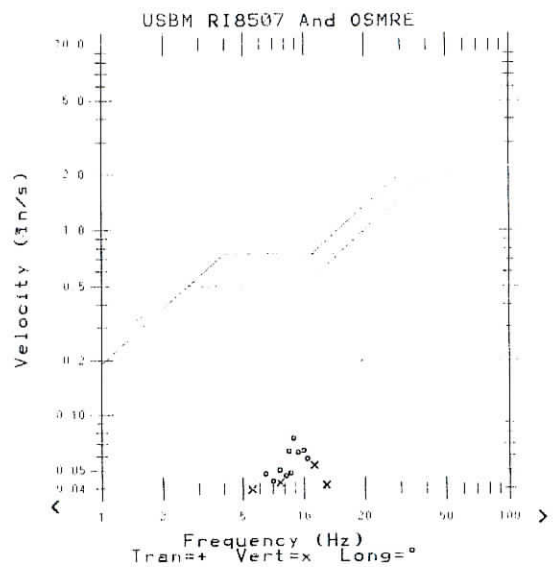
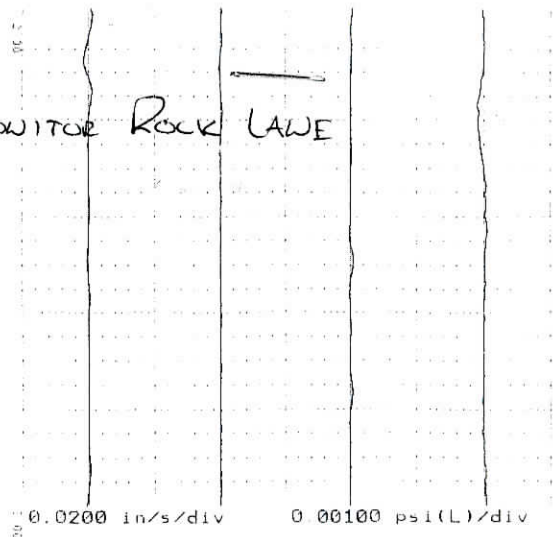
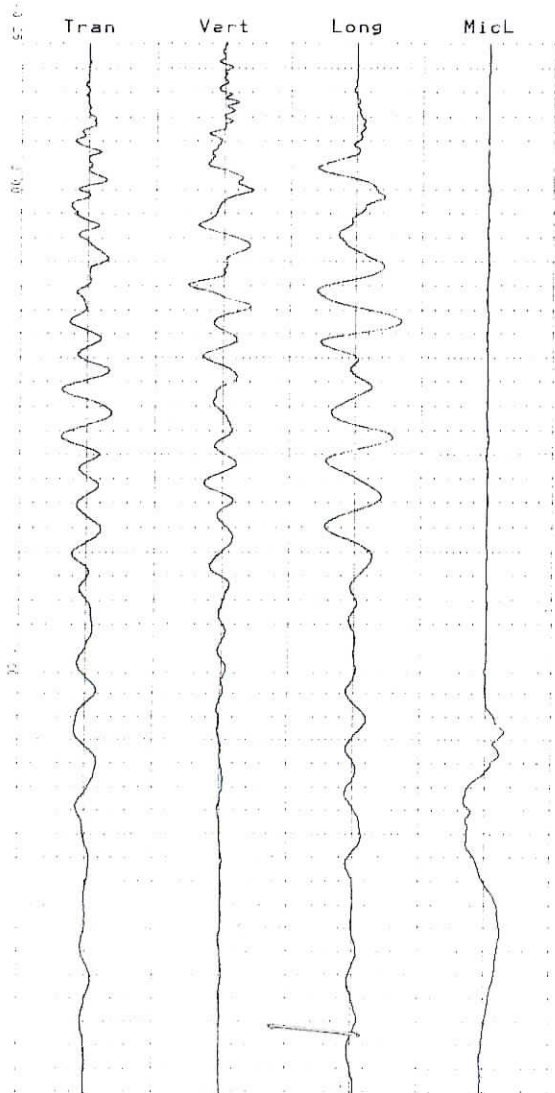


INSTANTEL BlastMate III

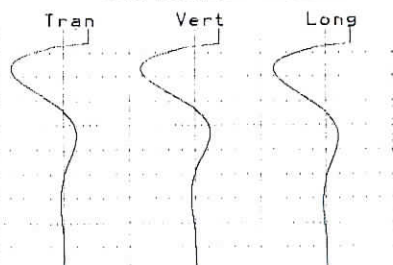
Serial Number BA12825 V 10.10-8.17
 Trigger Source Geo 0.0500 in/s
 Geo Range 1.25 in/s
 Record Time 3.0 s at 1024 sps
 CASTLE CONCRETE Manitou Springs, CO
 HOLES: 71
 Shot#19 2011
 USER:GM
 Extended Notes:GEO
 Pattern:10X13
 Scaled Distance 1637.0 ft., 574.0 lb.,
 71.5

Trigger Long at 10:28:32 AM Dec 8 11

	Tran	Vert	Long	
ppv	0.0387	0.0537	0.0700	in/s
ZC Freq	13	12	9.1	Hz
Time	0.467	0.249	0.326	sec
Accel	0.0133	0.0133	0.0149	g
Pk Disp	0.00064	0.00073	0.00124	in
PVS	0.0765 in/s at 0.326 Sec			
PSPL	115.0 dB(L) at 1.325 Sec			
	2.2 Hz			



SENSORCHECK CALIBRATION



FI=7.4 OT=3.9 FV=7.7 OV=3.5
 FL=7.2 OL=4.2 FM=20.1 PM=612
 Tran, Vert, Long, MicL Passed
 Battery Level: 6.3 Volts

Calibration Name Instantel
 Calibration December 30, 2010
 Format Copyrighted 1996-2010 Instantel

SEISMOGRAPH @ 4495 MONITOR ROCK LAWE



INSTANTEL BlastMate III

Serial Number BA12825 V 10.10-8.17
Trigger Source Geo 0.00700 in/s

Geo Range 1.25 in/s
Record Time 3.0 s at 1024 sps
Castle Concrete Manitou Springs Co.
HOLES:20

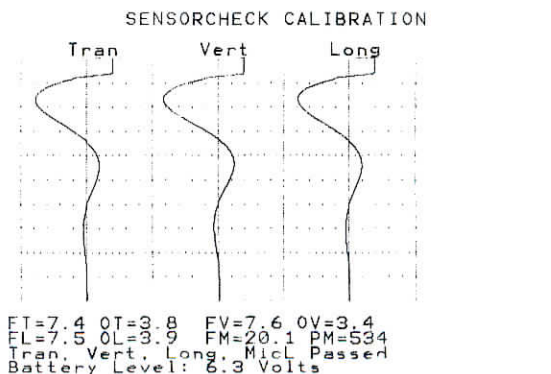
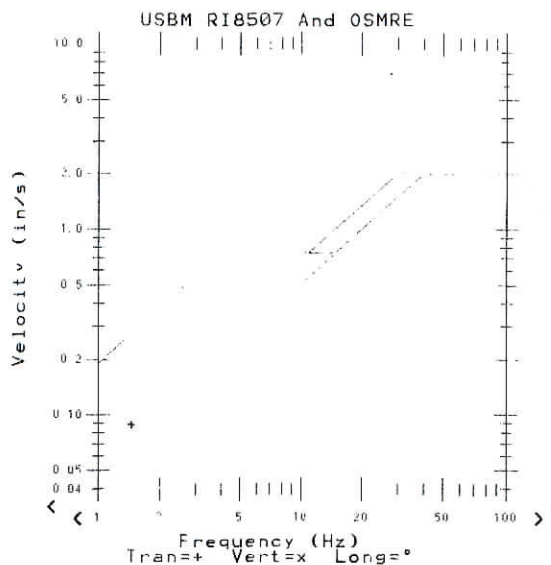
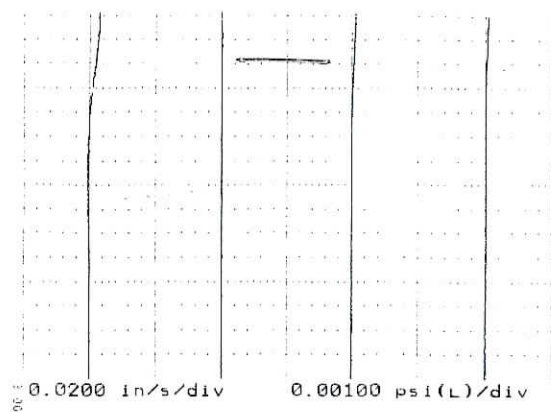
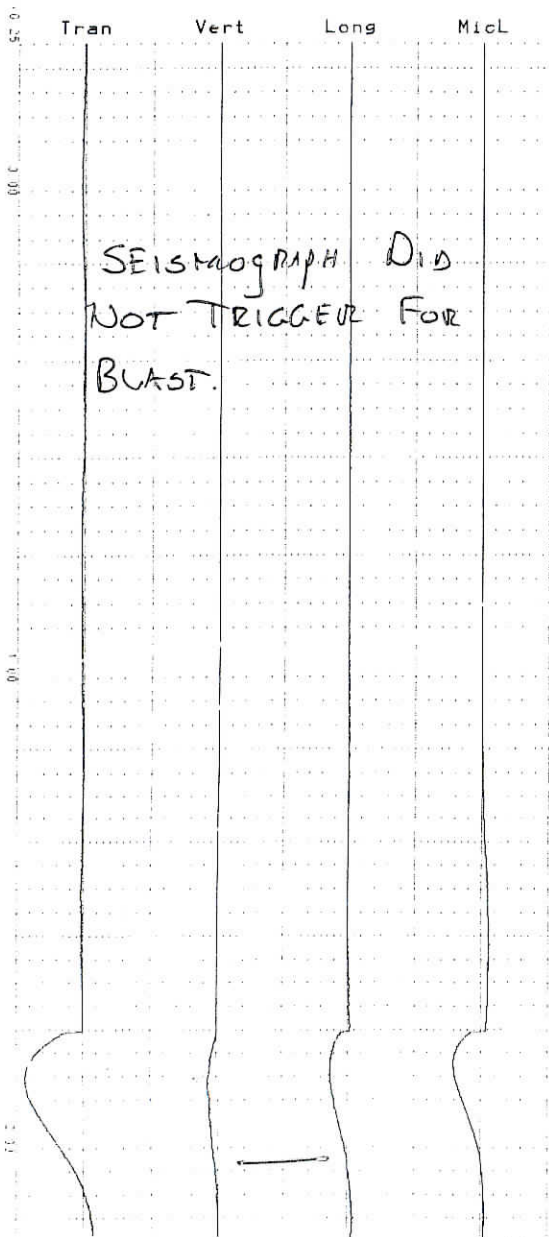
Shot#18 2011
USER:RM
Extended Notes:GEO
Pattern:10X13
Scaled Distance 1240.0 ft., 88.0 lb.,
132.2

Trigger Tran at 10 56:36 AM Nov 30 11

	Tran	Vert	Long
PPV	0.0881	0.0150	0.0275 in/s
ZC Freq	1.5	1.3	1.9 Hz
Time	1.917	1.928	1.888 sec
Accel	0.0249	0.00663	0.0265 g
Pk Disp	0.00889	0.00157	0.00241 in

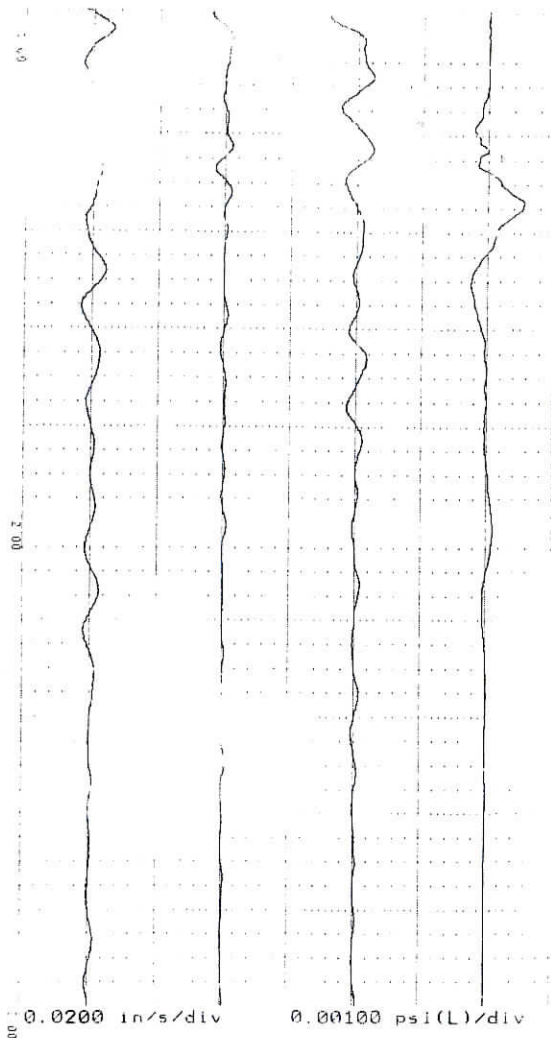
PVS 0.0926 in/s at 1.909 Sec

PSPL 117.2 dB(L) at 1.865 Sec
1.9 Hz



Calibration Name Instantel
Calibration December 30, 2010
Format Copyrighted 1996-2010 Instantel

SEISMOGRAPH @ 4495 MONITOR ROCK LAWE



USBM R18507 And OSMRE

SHOT
7323 FT
N 38° 52.322'
W 104° 54.995'

SEISMOGRAPH
7537 FT
N 38° 52.999'
W 104° 54.739'

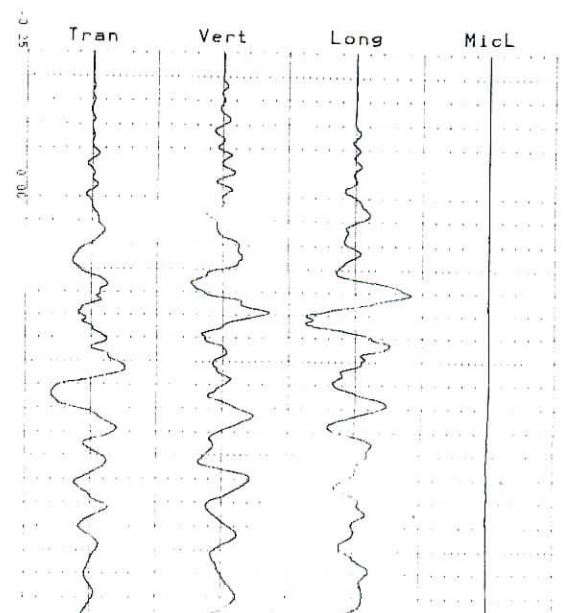


INSTANTEL BlastMate III

Serial Number B49241 V 13.10-8 17
Trigger Source C.O. 0.0200 in/s
Geo Range 1.25 in/s
Record Time 3.0 s at 1024 sps
Castle Black Canyon Quarry
SHOT# 17-2011
11 Holes
User RM
Extended Notes
PATTERN: 10x13-
Scaled Distance 1704.0 ft., 164.0 lb.
133.1

Trigger Vert at 11:02:00 AM Nov 17 11

	Tran	Vert	Long
PPV	0.0612	0.0712	0.0844 in/s
ZC Freq	7.2	7.9	8.3 Hz
Time	0.471	0.297	0.256 sec
Accel	0.0149	0.0182	0.0166 g
Pk Disp	0.00151	0.00110	0.00151 in
PVS	0.0983 in/s at 0.302 Sec		
PSPL	119.7 dB(L) at 1.337 Sec		
	3.0 Hz		





INSTANTEL BlastMate III

Serial Number RA9241 V 10.10-8.17
Trigger Source Geo 0.00700 in/s
Geo Range 1.25 in/s
Record Time 0.0 s at 1024 sps
Castle Black Canyon Quarry
SHOT#16-2011
27 Holes
UserRM
Extended Notes
PATTERN:10x13-
Scaled Distance 1200.0 ft., 197.0 lb.,
85.5

Trigger Vert at 11:25:27 AM Nov 8 11

	Tran	Vert	Long
DPV	0.00687	0.00687	0.00625 in/s
ZC Freq	N/A	N/A	N/A Hz
Time	1.299	0.000	-0.208 sec
Accel	0.00829	0.00829	0.00829 g
Pk Disp	0.0	0.0	0.0 in

PVS 0.00986 in/s at 0.000 Sec

PSPL 94.0 dB(L) at 0.384 Sec
12 Hz

N/A: Not Applicable

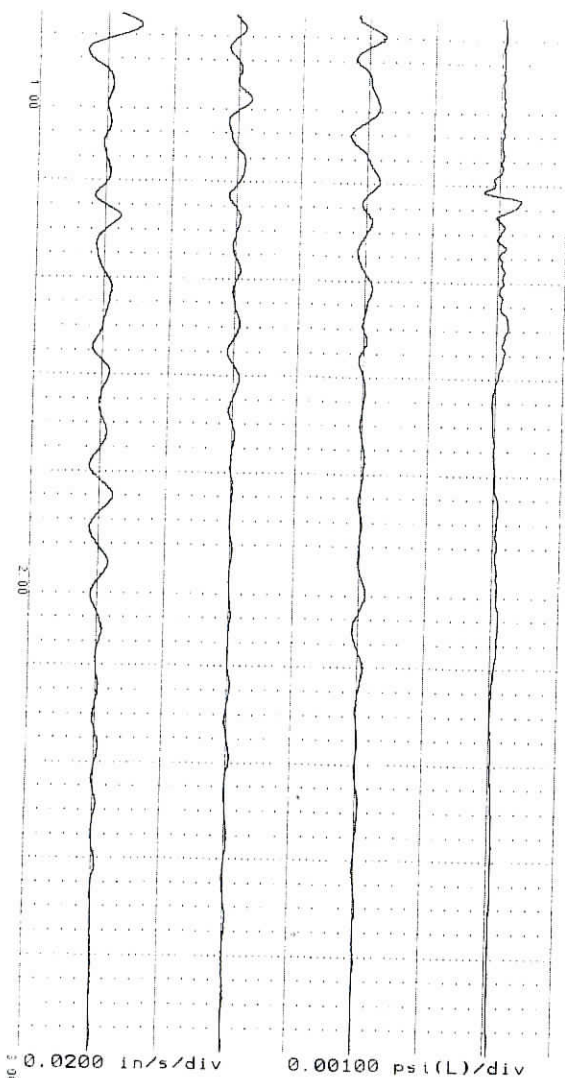
Tran, Vert, MicL Passed
Check Long
Battery Level: 6.3 Volts

Calibration Name Instantel
Calibration December 15, 2010

Format Copyrighted 1996-2010 Instantel

DR. Zarcanis

SEISMOGRAPH @ 4495 MONITOR ROAD LAKE



USBM RI8507 And OSMRE

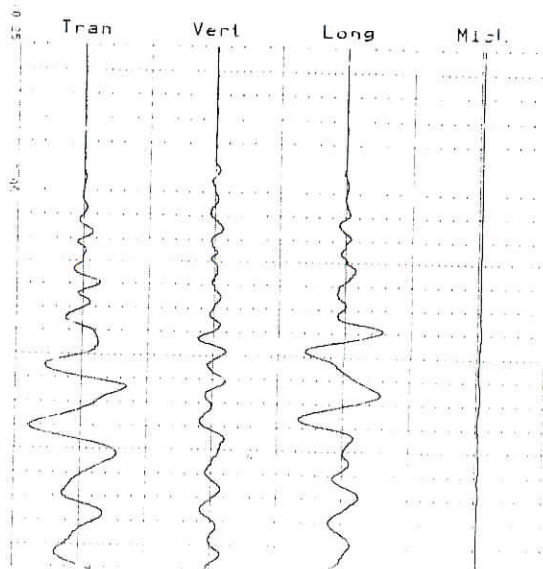


INSTANTEL BlastMate III

Serial Number BA9241 V. 10.10-8.17
 Trigger Source Geo 0.00700 in/s
 Geo Range 1.25 in/s
 Record Time 3.0 s
 Castle Black
 SHOT#14-2011
 23 Holes
 UserRM
 Extended Notes
 PATTERN:10x13-
 Scaled Distance 1200.0 ft., 235.0 lb.,
 78.3

Trigger Vert at 10:09:11 AM Nov 1 11

	Tran	Vert	Long
PPV	0.0787	0.0244	0.0681 in/s
20 Freq	7.6	17	9.5 Hz
Time	0.554	0.364	0.532 sec
Accel	0.0133	0.00829	0.0143 g
Pk Disp	0.00151	0.00041	0.0018 in
PVS	0.0877 in/s at 0.547 Sec		
PSPi	115.4 dB(L) at 1.734 Sec		
	13 Hz		



SEISMOGRAPH @ 4495 MONITOR ROCK
LANE.

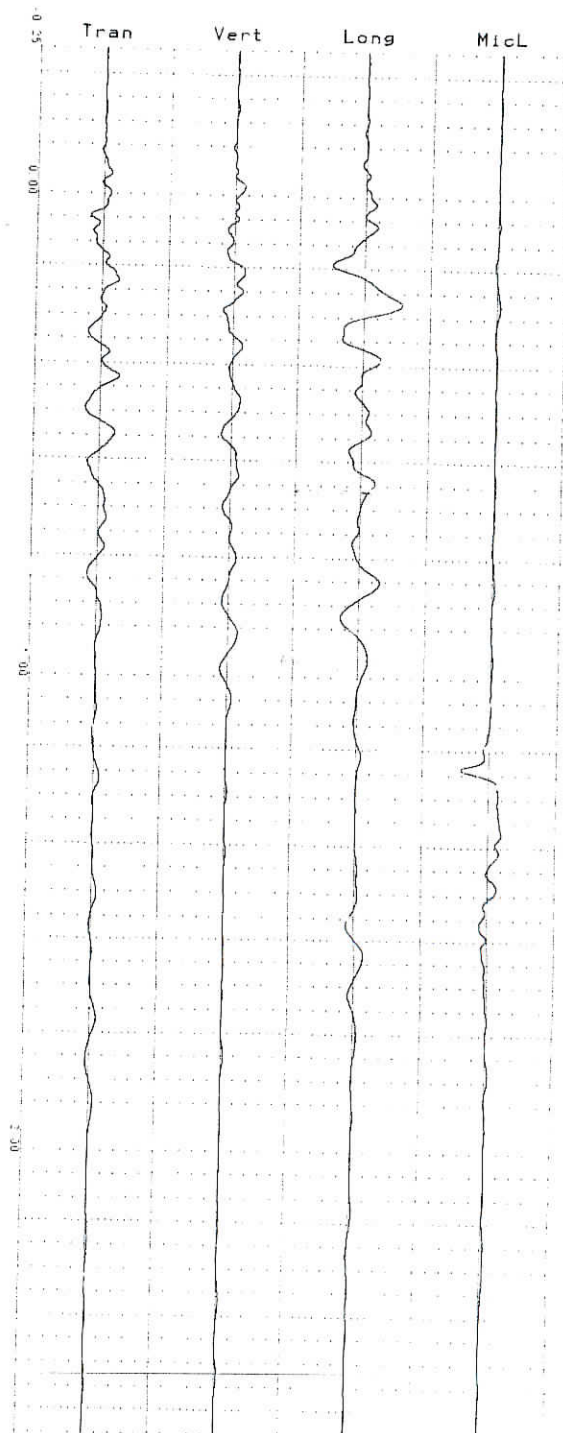


INSTANTEL BlastMate III

Serial Number BA9241 V 10.10-8.17
Trigger Source Geo 0.0200 in/s
Geo Range 1.25 in/s
Record Time 3.0 s at 1024 sps
Castle Concrete Manitou Springs, CO
SHOT#14-7300 GEO:4495 Monitor Rock Lane
33 Holes
User:DS
Extended Notes
PATTERN:10x13
Scaled Distance 1742.0 ft., 483.0 lb.,
79.3

Trigger Tran at 09:23:38 AM Oct 4 11

	Tran	Vert	Long	
PPV	0.0725	0.0431	0.146	in/s
ZC Freq	5.6	6.1	6.2	Hz
Time	0.428	0.207	0.272	sec
Accel	0.0149	0.0133	0.0246	g
Pk Disp	0.00146	0.00109	0.00329	in
PVS	0.146 in/s at 0.272 Sec			
PSPL	117.4 dB(L) at 1.237 Sec			
	4.9 Hz			



SEISMOGRAPH @ 4495 MONITOR ROCK LAKE.



INSTANTEL BlastMate III

Serial Number BA9241 V 10.10-8.17
 Trigger Source Geo 0.0200 in/s
 Geo Range 1.25 in/s
 Record Time 3.0 s at 1024 sps
 Castile concrete Manitou CO
 SHOT#14
 40 Holes
 User: RM
 Extended Notes
 Pattern: 10x13
 Scaled Distance 1650.0 ft., 394.0 lb., 83.1

Trigger Long at 09:53:48 AM Sep 20 11

	Tran	Vert	Long
PPV	0.0569	0.0206	0.0431 in/s
ZC Freq	9.1	7.6	9.0 Hz
Time	0.174	0.938	0.244 sec
Accel	0.0116	0.00829	0.00994 g
Pk Disp	0.00114	0.00045	0.00099 in
PVS	0.0631 in/s at 0.174 Sec		
PSPL	115.6 dB(L) at 1.100 Sec 5.3 Hz		

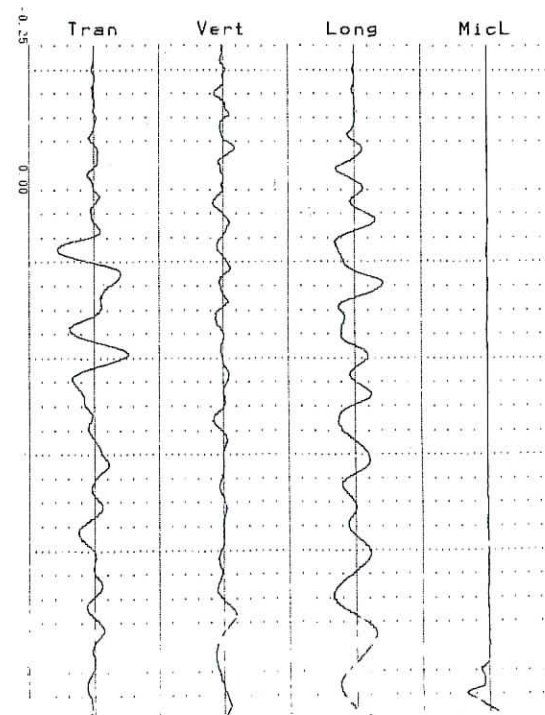
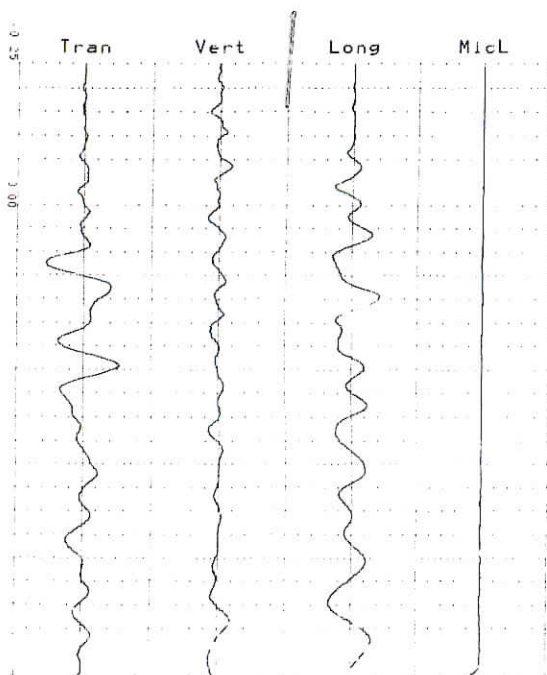


INSTANTEL BlastMate III

Serial Number BA9241 V 10.10-8.17
 Trigger Source Geo 0.0200 in/s
 Geo Range 1.25 in/s
 Record Time 3.0 s at 1024 sps
 Castile concrete Manitou CO
 SHOT#14
 40 Holes
 User: RM
 Extended Notes
 Pattern: 10x13
 Scaled Distance 1650.0 ft., 394.0 lb., 83.1

Trigger Long at 09:53:48 AM Sep 20 11

	Tran	Vert	Long
PPV	0.0569	0.0206	0.0431 in/s
ZC Freq	9.1	7.6	9.0 Hz
Time	0.174	0.938	0.244 sec
Accel	0.0116	0.00829	0.00994 g
Pk Disp	0.00114	0.00045	0.00099 in
PVS	0.0631 in/s at 0.174 Sec		
PSPL	115.6 dB(L) at 1.100 Sec 5.3 Hz		



SEISMOGRAPH @ 4495 MONITOR ROCK
LAWE.



INSTANTEL BlastMat II

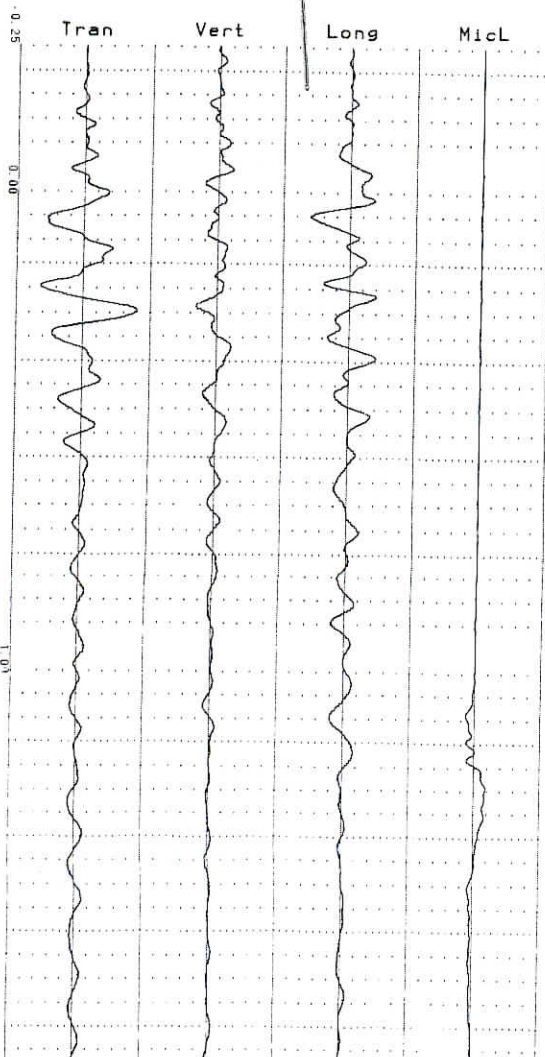
Serial Number BA9241 10.10-8.17
Trigger Source Geo 0.0200 in/s
Geo Range 1.25 in/s
Record Time 3.0 s at 1024 sps
Castle Concrete Manitou Springs CO
SHOT #13-7325
User: RM
Extended Notes
Pattern: 10x13
Scaled Distance 1690.0 ft., 203.5 lb.,
118.5

Trigger Vert at 10:47:55 AM Aug 25 11

	Tran	Vert	Long	
PPV	0.0812	0.0325	0.0587	in/s
ZC Freq	9.5	6.0	9.5	Hz
Time	0.296	0.286	0.100	sec
Accel	0.0149	0.00829	0.0149	g
Pk Disp	0.00135	0.00054	0.00099	in

PVS 0.0848 in/s at 0.296 Sec

PSPL 109.9 dB(L) at 1.296 Sec
2.2 Hz



INSTANTEL BlastMate III

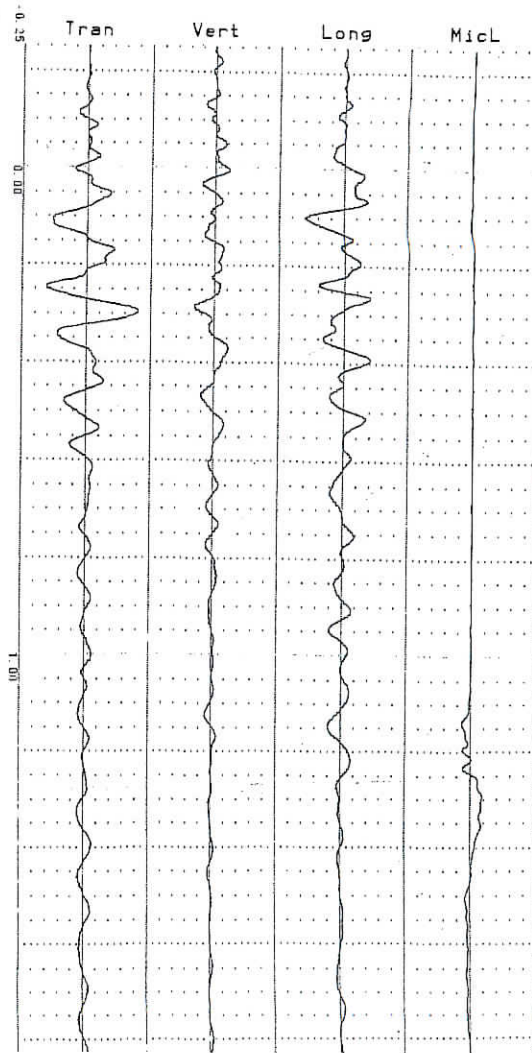
Serial Number BA9241 V 10.10-8.17
Trigger Source Geo 0.0200 in/s
Geo Range 1.25 in/s
Record Time 3.0 s at 1024 sps
Castle Concrete Manitou Springs CO
SHOT #13-7325
User: RM
Extended Notes
Pattern: 10x13
Scaled Distance 1690.0 ft., 203.5 lb.,
118.5

Trigger Vert at 10:47:55 AM Aug 25 11

	Tran	Vert	Long	
PPV	0.0812	0.0325	0.0587	in/s
ZC Freq	9.5	6.0	9.5	Hz
Time	0.296	0.286	0.100	sec
Accel	0.0149	0.00829	0.0149	g
Pk Disp	0.00135	0.00054	0.00099	in

PVS 0.0848 in/s at 0.296 Sec

PSPL 109.9 dB(L) at 1.296 Sec
2.2 Hz





INSTANTEL BlastMate III

Serial Number BA9241 V 10.10-8.17
Trigger Source Geo 0.0200 in/s
Geo Range 10.00 in/s
Record Time 3.0 s at 1024 sps
Castle Concrete Manitou Springs Co
SHOT#12-0000
28 Holes
User:DS
Extended Notes
Pattern:10x13
Scaled Distance 1557.0 ft., 244.0 lb.,
99.7

Trigger Vert at 12:12:39 PM Aug 5 11

	Tran	Vert	Long
PPV	0.0550	0.0200	0.0550 in/s
ZC Freq	9.7	16	9.1 Hz
Time	0.212	0.000	0.196 sec
Accel	0.0265	0.0265	0.0265 g
Pk Disp	0.00092	0.00044	0.00106 in
PVS	0.0745 in/s at 0.208 Sec		
PSPL	111.2 dB(L) at 1.112 Sec 2.2 Hz		

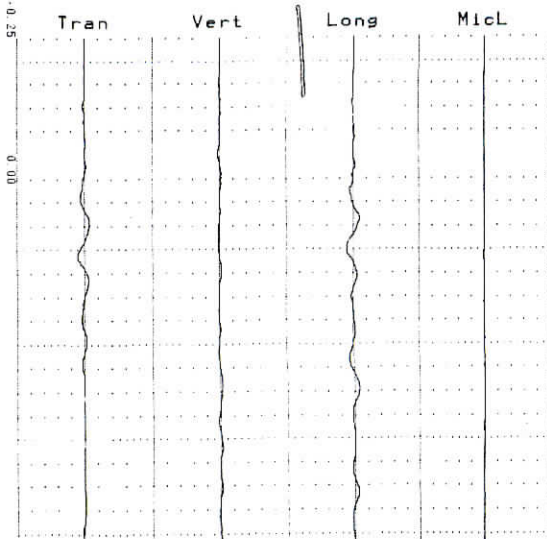
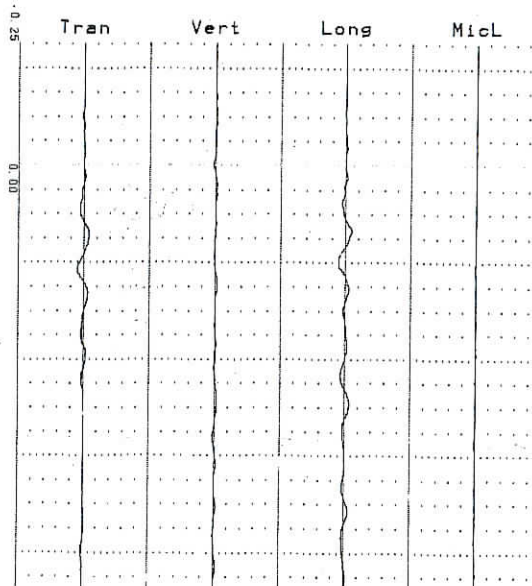


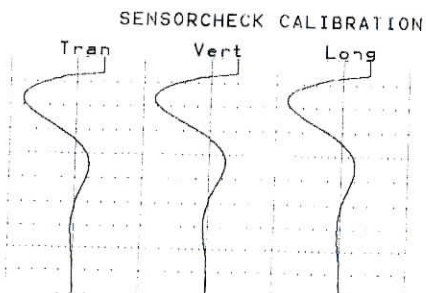
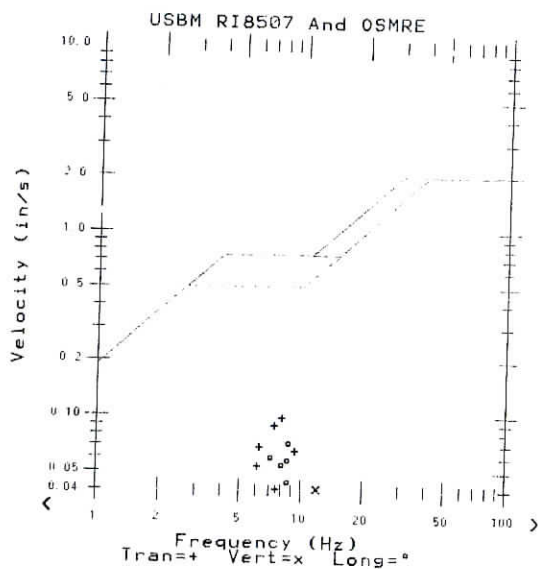
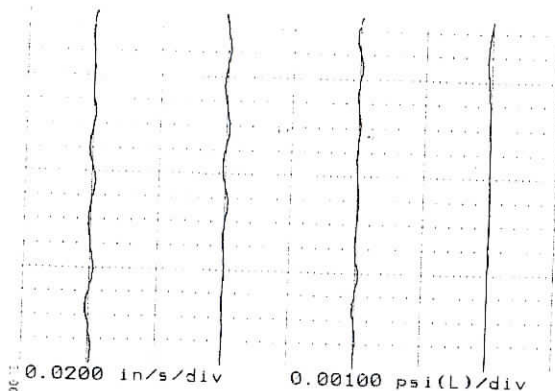
INSTANTEL BlastMate III

Serial Number BA9241 V 10.10-8.17
Trigger Source Geo 0.0200 in/s
Geo Range 10.00 in/s
Record Time 3.0 s at 1024 sps
Castle Concrete Manitou Springs Co
SHOT#12-0000
28 Holes
User:DS
Extended Notes
Pattern:10x13
Scaled Distance 1557.0 ft., 244.0 lb.,
99.7

Trigger Vert at 12:12:39 PM Aug 5 11

	Tran	Vert	Long
PPV	0.0550	0.0200	0.0550 in/s
ZC Freq	9.7	16	9.1 Hz
Time	0.212	0.000	0.196 sec
Accel	0.0265	0.0265	0.0265 g
Pk Disp	0.00092	0.00044	0.00106 in
PVS	0.0745 in/s at 0.208 Sec		
PSPL	111.2 dB(L) at 1.112 Sec 2.2 Hz		





FT=7.3 OT=3.8 FV=7.7 OV=3.4
 FL=7.4 OL=4.0 FM=20.1 PM=583
 Tran, Vert, Long, MicL Passed
 Battery Level: 6.3 Volts

Calibration Name Instantel
 Calibration December 30, 2010
 Format Copyrighted 1996-2010 Instantel

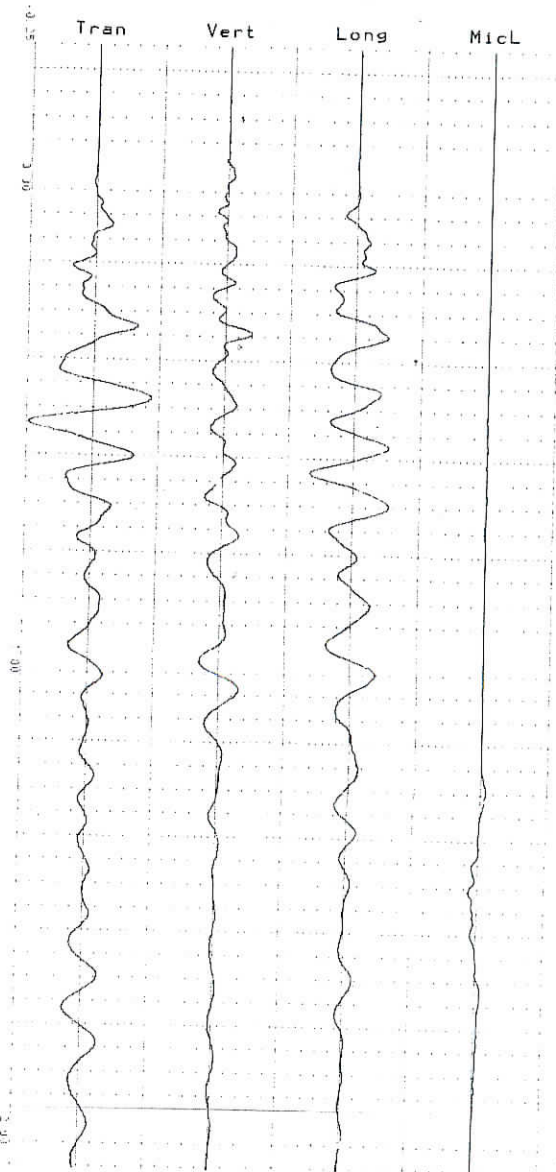


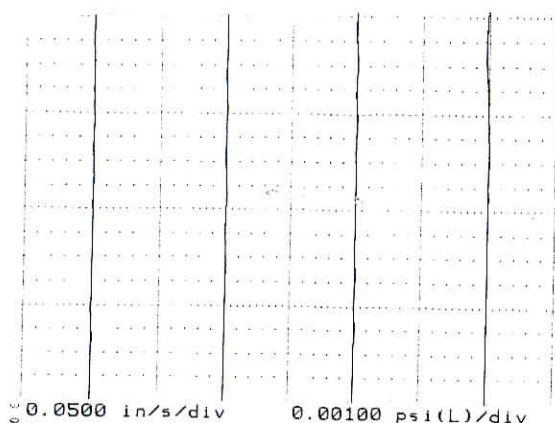
INSTANTEL BlastMate III

Serial Number BA12825 V 10.10-8.17
 Trigger Source Geo 0.00700 in/s
 Geo Range 1.25 in/s
 Record Time 3.0 s at 1024 sps
 Castle Manatousprings co
 Shot#11 Holes-22
 Location:
 User:RM
 Extended Notes:GEO
 Pattern:10x13
 Scaled Distance 1420.0 ft., 472.0 lb., 65.4

Trigger Vert at 08:51:08 AM Jul 21 11

	Tran	Vert	Long
PPV	0.0975	0.0412	0.0662 in/s
ZC Freq	8.3	12	9.0 Hz
Time	0.534	0.343	0.630 sec
Accel	0.0182	0.0116	0.0116 g
PK Disp	0.00185	0.00069	0.00118 in
PVS	0.103 in/s at 0.534 Sec		
PSPL	108.0 dB(L) at 1.509 Sec		
	2.3 Hz		



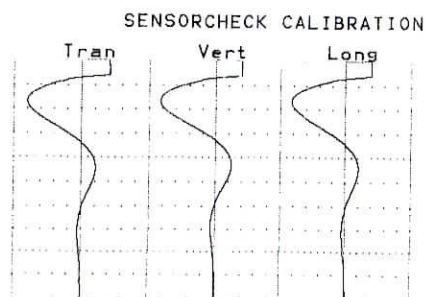
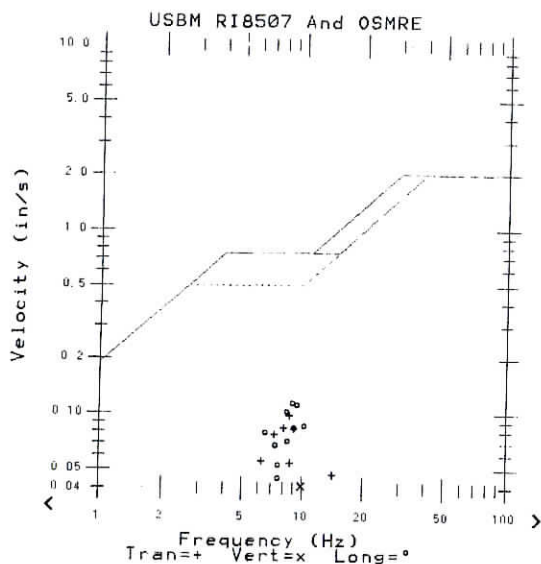


INSTANTEL BlastMate III

Serial Number BA12825 V 10.10-8.17
 Trigger Source Geo 0.00700 in/s
 Geo Range 1.25 in/s
 Record Time 3.0 s at 1024 sps
 Castle Manitou Springs CO
 Shot#09 Holes-22
 Location:
 User:RM
 Extended Notes:GEO
 Pattern:10x13
 Scaled Distance 1320.0 ft., 221.0 lb., 88.8

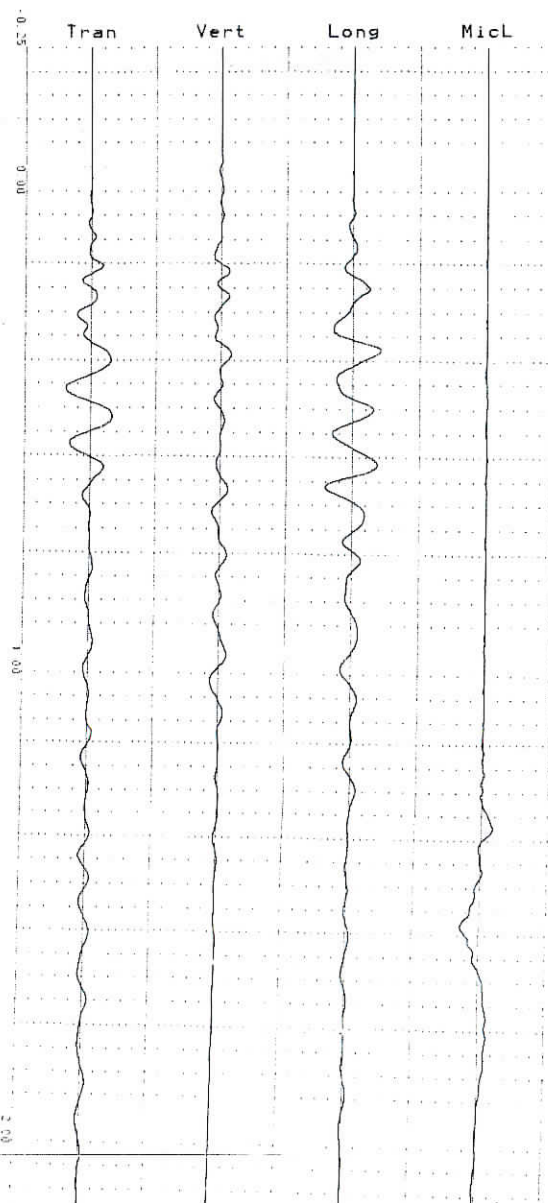
Trigger Vert at 12:16:14 PM Jul 11 11

	Tran	Vert	Long
PPV	0.0969	0.0412	0.107 in/s
ZC Freq	8.8	10	9.1 Hz
Time	0.461	0.388	0.378 sec
Accel	0.0182	0.0116	0.0215 g
Pk Disp	0.00175	0.00072	0.00175 in
PVS	0.126 in/s at 0.382 Sec		
PSPL	114.0 dB(L) at 1.579 Sec		
	2.7 Hz		



FI=7.4 OT=3.7 FV=7.7 OV=3.3
 FL=7.4 OL=3.9 FM=20.1 PM=458
 Tran, Vert, Long, MicL Passed
 Battery Level: 6.3 Volts

Calibration Name Instantel
 Calibration December 30, 2010
 Format Copyrighted 1996-2010 Instantel



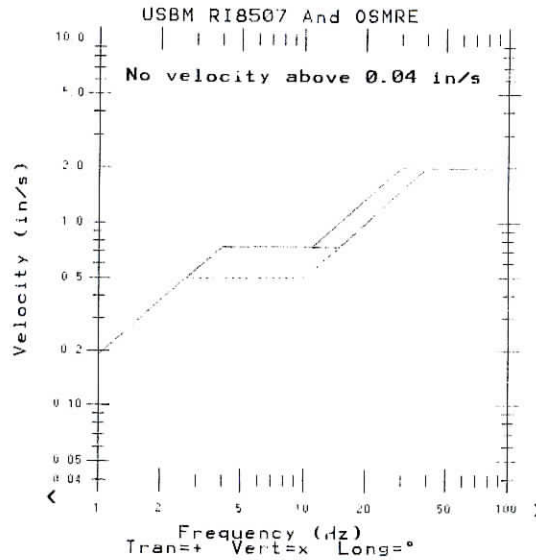
INSTANTEL BlastMate III

Serial Number BA12825 V 10.10-8.17
 Trigger Source Geo 0.00700 in/s
 Geo Range 1.25 in/s
 Record Time 3.0 s at 1024 sps
 castle concrete Monument
 Shot#8 Holes-12
 Location:top trim
 User:RM
 Extended Notes:GEO
 Pattern:10x13
 Scaled Distance 1400.0 ft., 110.0 lb., 133.5

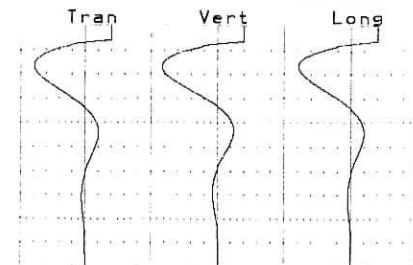
Trigger Vert at 08:52:07 AM Jul 5 11

	Tran	Vert	Long
PPV	0.0225	0.0112	0.0187 in/s
ZC Freq	11	7	11 Hz
Time	0.312	0.250	0.412 sec
Accel	0.00663	0.00663	0.00663 g
Pk Disp	0.00031	0.00023	0.00035 in
PVS	0.0266 in/s at 0.311 Sec		
PSPL	103.5 dB(L) at 1.050 Sec		

0.01000 in/s/div 0.00100 psi(L)/div

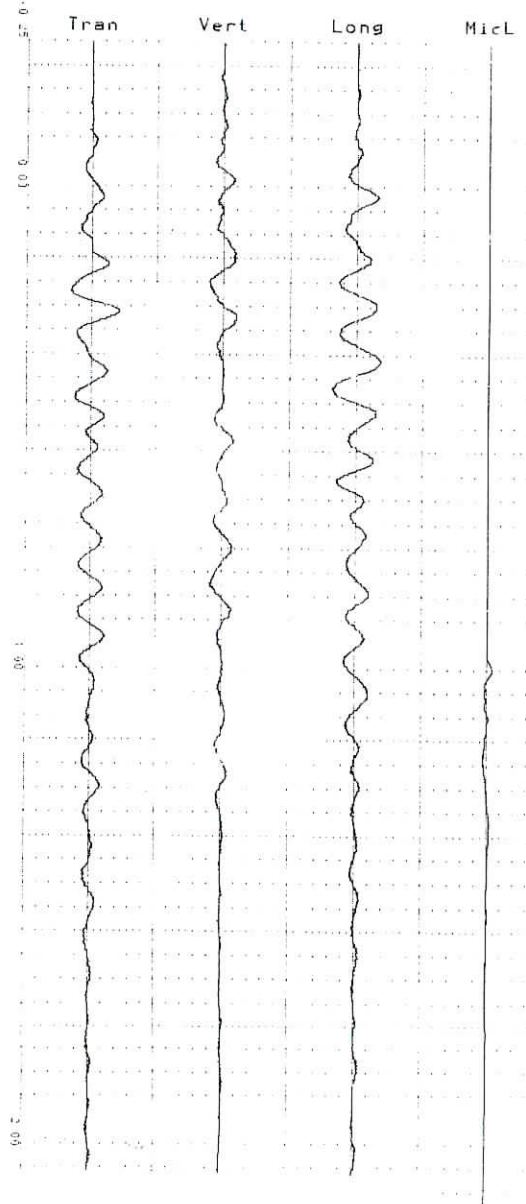


SENSORCHECK CALIBRATION



FI=7.5 OI=3.7 FV=7.7 OV=3.3
 FL=7.4 OL=3.9 FM=20.5 PM=535
 Tran, Vert, Long, MicL Passed
 Battery Level: 8.4 Volts

Calibration Name Instantel
 Calibration December 30, 2010
 Format Copyrighted 1996-2010 Instantel



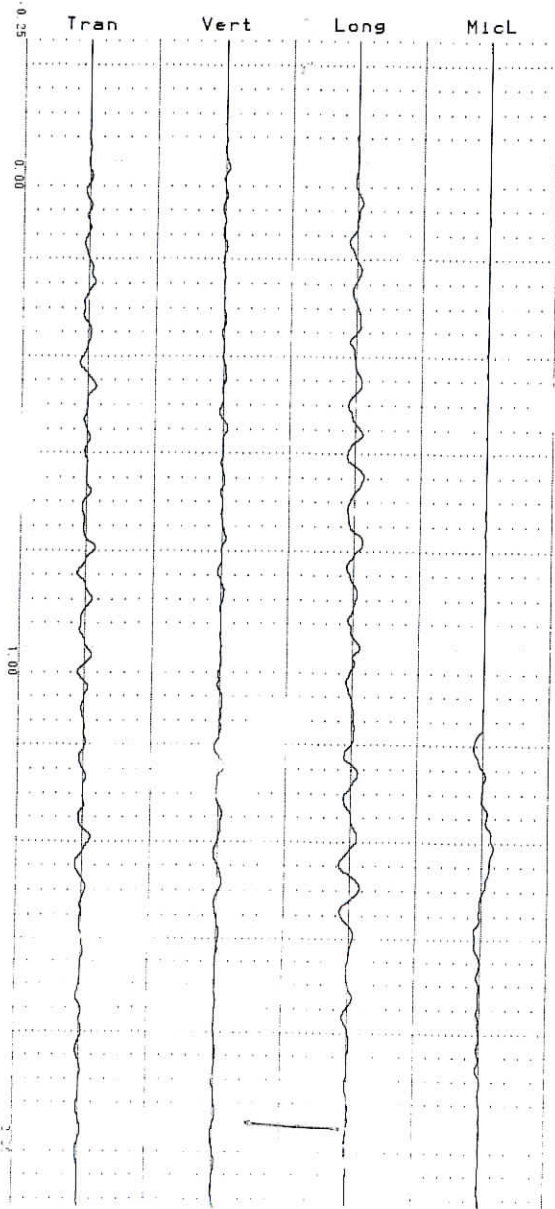


INSTANTEL BlastMate III

Serial Number: BA9241 V 10,10-8.17
Trigger Source: Geo 0.02J0 in/s
Geo Range: 10.00 in/s
Record Time: 3.0 s at 1024 sps
Castle Concrete: Black Canyon Quarry
SH0106-2011: 86 Holes
User: GT
Extended Notes
Pattern: 10x13
Scaled Distance: 1689.0 ft., 355.4 lb., 89.6

Trigger Vert at 11:56:08 AM Jun 8 11

	Tran	Vert	Long	
PPV	0.0750	0.0450	0.0900	in/s
ZC Freq	1.3	1.6	2.0	Hz
Time	0.793	1.246	1.445	sec
Accel	0.0265	0.0265	0.0265	g
Pk Disp	0.00098	0.00065	0.00146	in
PVS	0.106 in/s at 1.445 Sec			
PSPL	109.9 dB(L) at 1.412 Sec 2.8 Hz			

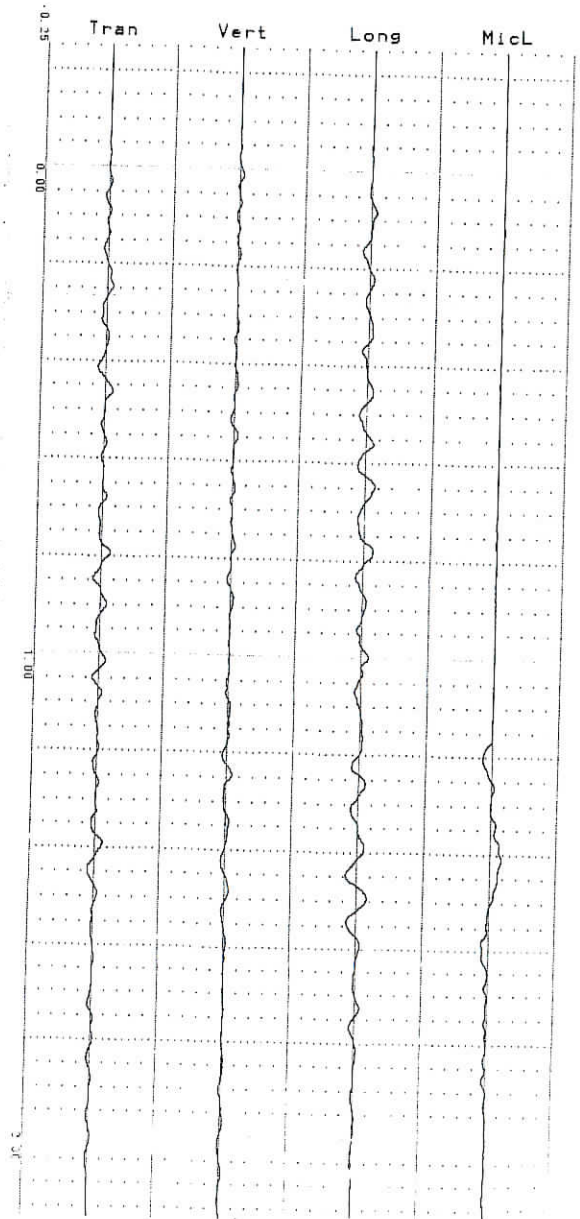


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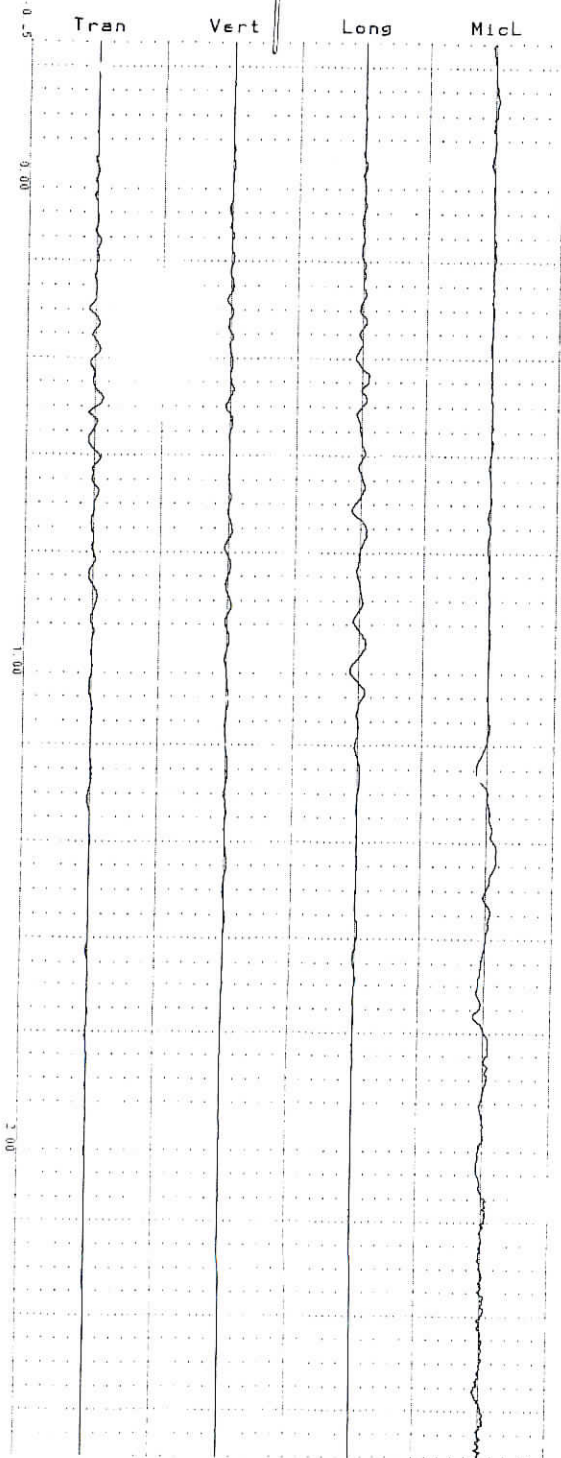


INSTANTEL BlastMate III

Serial Number BA9241 V 10.10-8.17
Trigger Source Geo 0.0200 in/s
Geo Range 10.00 in/s
Record Time 4.7s Auto 1024 sps
Casttle Manitou Springs Co
SHOT# 72-2011 7300 Elev 79 Holes
User: GT
Extended Notes
Pattern: 10x13
Scaled Distance 1758.0 ft., 352.0 lb.,
93.7

Trigger Vert at 10:07:10 AM May 3 11

	Tran	Vert	Long
PFV	0.0650	0.0400	0.0750 in/s
7C Freq	13	16	11 Hz
Time	0.432	0.496	709 sec
Accel	0.0265	0.0265	265 g
Pk Disp	0.00078	0.00043	0.00113 in
PVS	0.0770 in/s at 0.484 Sec		
PSPL	109.2 dB(L) at 1.241 Sec		
	5.3 Hz		

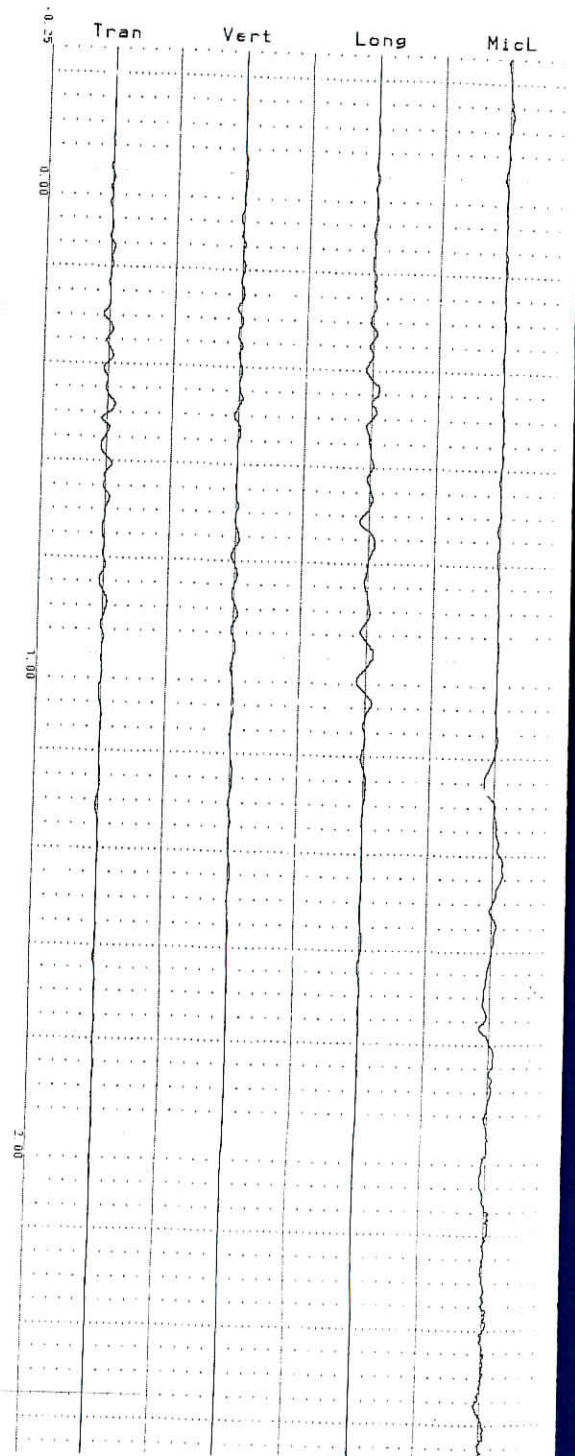


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SHOT# 72-2011 7300 Elev 79 Holes
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PSPL	109.2 dB(L) at 1.241 Sec		
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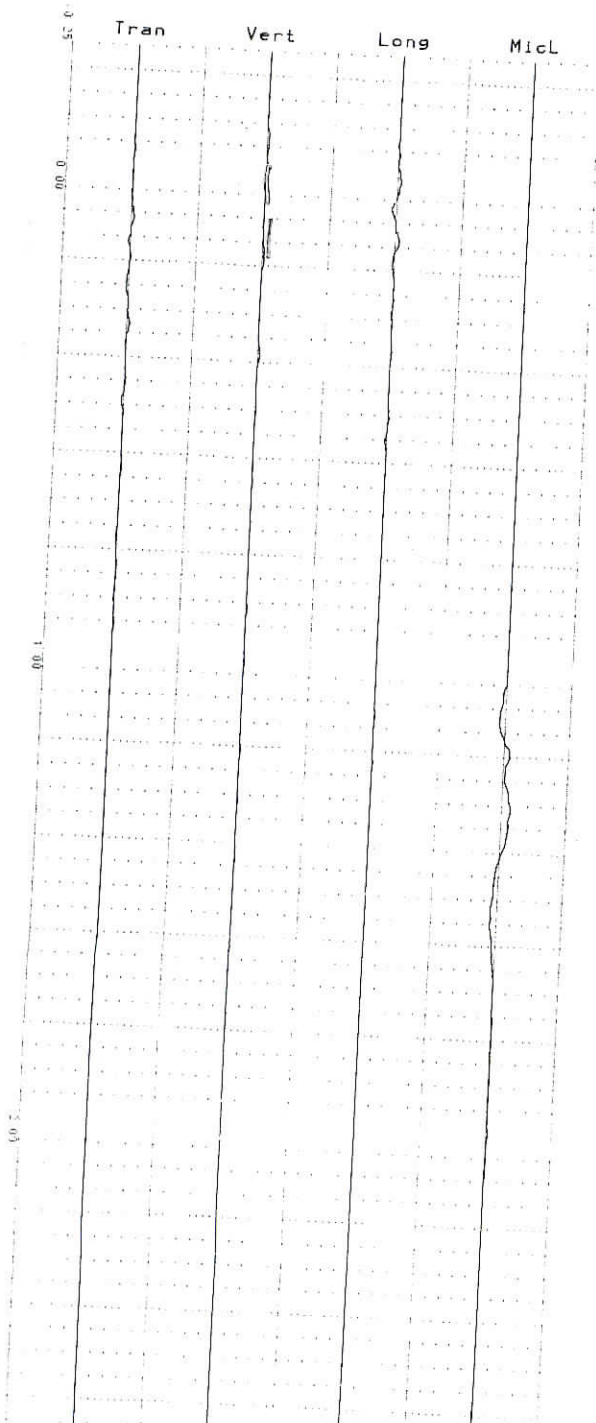


INSTANTEL BlastMate III

Serial Number PA9241 V 10.10-8.17
Trigger Source Geo 0.0200 in/s
Geo Range 10.00 in/s
Record Time 3.7s Auto 1024 sps
Castle Concrete Manitou Sprngs CO
SH01#6-7300-2011
User:GT
Extended Notes
Pattern:10x13
Scaled Distance 1720.0 ft., 280.0 lb.,
102.6

Trigger Long at 10:10:54 AM Apr 19 11

	Tran	Vert	Long
PPV	0.0250	0.0200	0.0400 in/s
ZC Freq	12	10	10 Hz
Time	0.106	0.192	0.067 sec
Accel	0.0133	0.0133	0.0265 g
Pk Disp	0.00038	0.00034	0.00061 in
PVS	0.0406 in/s at 0.067 Sec		
PSPL	108.0 dB(L) at 1.312 Sec 2.1 Hz		



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