V.01-11-CA

USGS SEISMIC LOG: CRUISE ~~A-01-11-GA~~

FILES: _____

AREA: ~~Whittier, AK~~ Mono Lake

DATE: Sept 7

Chief Scientist ~~Tom Parsons~~ Angela Jayko (NOT ON BOARD) area prioritized based on 2009 survey

Patrick Hart
Mike Boyle
Matt Miller
Sarah Benjaram

	JD	GMT TIME
ENDING		
STARTING		

LINE NUMBERS: ML-101 -106

Wednesday

SAMPLE RATE	RECORD LENGTH	SHOT RATE	
10 kHz	300 MS	350 / SEC	
	RECORDING SYSTEM Triton SBL		

Source: SIG Mini-sparker 300 J

How I'm @ 50 element source

Receiver: Geopulse 30 phones 5 m active

COMMENTS Source/receiver center ~20 m aft of antenna

WEATHER/SEA: Flat

V-01-11-CA

USGS SEISMIC LOG: CRUISE ~~A-01-11-GA~~

FILES: _____

DATE: Sept 8

LINE NUMBERS: ML-107 ML-113

AREA: ~~Whittier, AK~~ Mono Lake

Chief Scientist: Angelo Jayko (on board) ~~Tom Parsons~~

Patrick Hart
Mike Boyle
Matt Miller
Sarah Benjaram
Amna Javed

	JD	GMT TIME	
ENDING			
STARTING			

Thursday

SAMPLE RATE	RECORD LENGTH	SHOT RATE	
10 kHz	300 MS	350 / SEC	
	RECORDING SYSTEM Triton SBL		

Source:
SIG Mini-sparker 300J'
1-m 50-element

Receiver:

COMMENTS _____

WEATHER/SEA: _____

V-01-11-CA

USGS SEISMIC LOG: CRUISE ~~A-01-11-GA~~

FILES: _____

DATE: 9/9/11

LINE NUMBERS: ML-114 to ML-118 (as of 9/12/11)

AREA: ~~Whittier, AK~~ Mono Lake

Chief Scientist: ~~Tom Parsons~~ Angela Jayko

(NOT ON BOARD)
Patrick Hart
Mike Boyle
Bobby McEvoy
Sarah Benjaram
Amna Javed

	JD	GMT TIME	
ENDING			
STARTING			

Friday

SAMPLE RATE	RECORD LENGTH	SHOT RATE	
10 kHz	300 MS	3.5 / SEC	
	RECORDING SYSTEM Triton SBL		

Source:
SIG Mini-sparker 300j
1-m 50 element

Receiver:
30 phones
5 m active

COMMENTS _____

WEATHER/SEA: _____

V-01-11-CA

USGS SEISMIC LOG: CRUISE ~~A-01-11-GA~~

FILES: _____

AREA: ~~Whittier, AK~~ Mono Lake, CA

Chief Scientist ~~Tom Parsons~~ Angela Jayko (ON BOARD)

DATE: 9/10/11

	JD	GMT TIME	
ENDING			
STARTING			

Angela Jayko
Mike Boyle
Bobby McEvoy
Amna Jared
Jon Childs

LINE NUMBERS: ML-119 to ML-128

Saturday

SAMPLE RATE	RECORD LENGTH	SHOT RATE	
10 kHz	300 MS	350 / SEC	
	RECORDING SYSTEM Triton SBL		

Source:
SIG Mini-sparker 300 j
1-m 50 element
(4" tips)

Receiver: Geopulse 30 phone @ 5-m active

COMMENTS Source/receiver center ~ 20 m aft of antenna

WEATHER/SEA: Flat calm

V-01-11-CA

USGS SEISMIC LOG: CRUISE ~~A-01-11-GA~~

FILES: _____

AREA: ~~Whittier, AK~~ Mono Lake, CA

Chief Scientist ~~Tom Parsons~~ Angela Jayko

DATE: 9/11/11

ML 129 to

LINE NUMBERS: ML137

Sunday

	JD	GMT TIME	
ENDING			
STARTING			

Angela Jayko
Mike Boyle
Bobby McEvoy
Amna Javed
Jon Childs

SAMPLE RATE	RECORD LENGTH	SHOT RATE	
10 kHz	300 MS	350 / SEC	
	RECORDING SYSTEM Triton SBL		

Source: 300 j
SIG Mini-sparker
New 0.5 m - 50 element

Receiver: Geopulse 30 phones
5-m active

COMMENTS: Source - receiver center ~ 20 m aft of GPS antenna

WEATHER/SEA: 5-10 kt some clouds ~ 75°

USGS SEISMIC LOG: CRUISE A-01-11-GA

FILES: _____

AREA: ~~Whittier, AK~~ Mono Lake, CA

Chief Scientist ~~Tom Parsons~~ Angela Jayko

DATE: 9/12/11

[redacted]

	JD	GMT TIME	[redacted]
ENDING			No data
STARTING			No data

LINE NUMBERS: _____

Monday

SAMPLE RATE	RECORD LENGTH	SHOT RATE	
	_____ MS	_____/ SEC	
	RECORDING SYSTEM Triton SBL		

Source:
SIG Mini-sparker

Receiver: Ge

COMMENTS: Down day - boat maintenance - weather forecast - caulking leaks in fore deck

WEATHER/SEA: overcast - slow moving thunderstorms forecast flash flood warnings

USGS SEISMIC LOG: CRUISE A-01-11-GA

FILES: _____

AREA: ~~Whittier, AK~~ MONO LAKE

Chief Scientist ~~Tom Parsons~~ ANGELA JAYKO

DATE: 9/13/11

LINE NUMBERS: ML 138 to ML147

	JD	GMT TIME		
ENDING		Millar late on arrival depart dock ~9:00 AM		Angela Jayko Mike Boyle Matt Miller Sarah Benjaram
STARTING				

Tuesday

SAMPLE RATE	RECORD LENGTH	SHOT RATE	
10 khz	300 MS	350 / SEC	
	RECORDING SYSTEM Triton SBL		

Source: 300 j
SIG Mini-sparker Day 2 0.5 m 50 element

Receiver: Geophilse 30 phones 5 - m active

COMMENTS Source receiver center ~ 20 m aft of GPS antenna

WEATHER/SEA: Thunder heads by ~ 1:00 PM off the lake by 2:00 PM

USGS SEISMIC LOG: CRUISE A-01-11-GA

FILES: _____

AREA: ~~[illegible]~~ MONO LAKE

Chief Scientist ~~[illegible]~~ Angela Jayko
Mike Boyle
Matt Miller

DATE: 9/14/11

	JD	GMT TIME	
ENDING			
STARTING			

LINE NUMBERS: ML148 to ML158

Wednesday

SAMPLE RATE	RECORD LENGTH	SHOT RATE	
10 kHz	300 MS MS	350 / SEC	
	RECORDING SYSTEM Triton SBL		

Source: 300j
SIG Mini-sparker Day 3 0.5 m 50 element

Receiver: Geopulse 30 phones
5 · m active

COMMENTS on the water @ 7:30 AM

WEATHER/SEA: Hot clear AM; thunderheads building by 2:15 PM; off the water @

USGS SEISMIC LOG: CRUISE A-01-11-GA

FILES: _____

AREA: ~~[illegible]~~ MONO LAKE

Chief Scientist ~~[illegible]~~ Angela Jayko
Mike Boyle
Matt Mither

DATE: 9/15/11
ML 159

	JD	GMT TIME	
LINE NUMBERS: _____ ENDING			
STARTING			

SAMPLE RATE	RECORD LENGTH	SHOT RATE	
10 khz	300 MS	350 / SEC	
	RECORDING SYSTEM Triton SBL		

Source: 300 j.
SIG Mini-sparker

Receiver: Geopulse 30 phones
5 - m - active

COMMENTS _____

WEATHER/SEA: _____

V-01-11-CA

CRUISE: ~~A-01-11-CA~~ JD ~~300~~ 352 FILE _____ Rec Length/ Fire Rate: 300/30 PAGE 1 OF 9

PING	GMT	Line Number	COMMENTS
			~ 9:40 am local gear in water
	1705	ML-101	SOL ML-101
~4300			adjusting gain
	1757		EOL
			turn
	1805	ML-102	SOL
	1852		EOL
			pull gear, trim tips, gas generator
	1929		gear in water
	1937	ML-103	SOL
	2021		EOL
			check tips, trimmed a couple blow outs
		ML-104	SOL
	2027		v. good data near EOL
	2110		EOL
	2118	ML-105	SOL
2807	2135		sparker blow out?
	2136	~~SOL~~	EOL
			trim tips, major blow out
	2152	ML-106	SOL
			EOL
	2245		pull gear End of Day

LOG for 101-107?

CRUISE: A-01-11-GA JD ~~321~~ 207 FILE _____ Rec Length/ Fire Rate. 300/300 PAGE 2 OF 9

PING	GMT	Line Number	COMMENTS
	1531		Gear in water
	?	ML-107	SOL GMT incorrect
			EOL loop around, no nav input
	1601	ML-107	restart
	1623	ML-107	EOL
	1627	ML-108	SOL
	1653		EOL
			loop turn
	1705	ML-109	SOL
~1600	1712		sparker tip blow out?
	1723		EOL
			pull gear to trim tips
	1731	ML-110	SOL
	1812	ML-110	EOL
	1818	ML-111	SOL
	1854	ML-111	EOL
			pull gear trim tips / gas generators
	1940	ML-112	SOL
	2014		EOL
	2020	ML 113	SOL
	2056		EOL
			~~SOL~~ GPS not working End of Day

V-01-11-CA

CRUISE: ~~A-01-11-GA~~ JD 252 FILE _____ Rec Length/ Fire Rate: 300/350 PAGE 3 OF 9

PING	GMT	Line Number	COMMENTS
	1516		Deploy gear
	1524	ML-114	SOL cross lake transect w/ 2 doglegs
4940	1553		dogleg slight bend
9760	1621		dogleg slight bend
	1700		sparker trip blow out
	1705		another trip blow out
			trip problems
19502	1718	ML-114	EOL
			trim trips to even short ~4" length
	1728	ML-115	SOL did not record
	1745	ML-115	SOL now recording
	1815		EOL
			pull gear, ~~trim~~, gas generator
			lunch on Pahoa
	1920	ML-116	SOL
	2000		EOL
			trim
	2010	ML-117	SOL
			EOL
	2021	ML-118	SOL
	2032		slow nearing seep
2036	2033		@ seep
	2034		EOL pull gear End of Day

NO RECORD RERUN first 1/2

ASJ 91

CRUISE: ~~A-01-11-GA~~ V·01·11·CA JD 253 FILE _____ Rec Length/ Fire Rate. 300/350 PAGE 4 OF 9

PING	GMT	Line Number	COMMENTS
	1500z	ML-119	Underway - heading for N end of lake
1	1556	ML-119	SOL Heading 058°
5660	1629		EOL
1	1632 40	ML·120	SOL HDG 250° ~~6419~~
4330	1657 45		EOL ~~6384~~ ~~6392~~
1	1659 45	ML·121	SOL HDG 061° ~~6355~~
1600			fault graben ? ~~6372~~
3730	1721 30		EOL
1	1725 20	ML·122	SOL HDG 255
~1730			fault
1741	1741	ML-122	EOL
1	1748 50	ML·123	SOL HDG 050
	1755		EOL
	1756	SEEP	SOL
	1800		EOL
	1805	(ML)124	SOL
1806			2nd fault; buried
1807			deformed on lapping.
~~1816~~	1816	124	EOL
	1818	ML-125	SOL
1826			fault
	1828	ML-125	EOL
	1832	ML-126	SOL

CRUISE: ~~A 01-11 GA~~ VOL 11 CA JD 254 FILE _____ Rec Length/ Fire Rate. 300/350 PAGE 5 OF 9

PING	GMT	Line Number	COMMENTS
	1839	ML 126	EOL
	1843	ML 127	SOL
	1850		EOL Break for lunch trimmed tips
1	2026[20]	ML 128	SOL After lunch - weather building
			Hdg 163°
2700	2042[15]		EOL
			Note: By end of day tips had been
			trimmed 1' short on 1m x 50 element
			SOL

CRUISE: ~~A-01-11-GA~~ V-01-11-CA JD 255 FILE _____ Rec Length/ Fire Rate. 300/350 PAGE 6 OF 9

PING	GMT	Line Number	COMMENTS
	1445		underway 07:45 am
			Starting day with new 0.5m × 50 element
1	1502 40	ML-129	SOL Coincident w/ ML-128 for source
			Hdg 355° comparison;
2160	1515	~~2160~~	EOL Pull gear to transit
1	1607 15	ML-130	SOL Hdg 331°
1770	1617 30		EOL 25m WD
1	1618 45	ML-131	SOL Hdg 224° 2.4 m WD
1600			c/c to 24H°
2600	1633 54		EOL
1	1640 40	ML-132	SOL Hdg 122°
2050	1652 30		EOL
1	1654 45	ML-133	SOL Hdg 300°
~1200			"fluff" layer pinches out
2300	1708		EOL
1	1711 45	ML-134	SOL Hdg 133°
1600			} unusually irregular bottom:
2400			} interesting sampling targets
3870	1734 15		EOL pull gear to trim tips & transit
1	1747 45	ML-135	SOL Hdg 300° WD 7 m
2100	1800		EOL 2m WD
1	1802 15	ML-136	SOL Hdg 117° WD 2m
2250			~~EOL~~ increase speed 2 to 4.5 kt

CRUISE: A-01-11-GA JD _____ FILE _____ Rec Length/ Fire Rate. _____ PAGE 7 OF 9

PING	GMT	Line Number	COMMENTS
8600		ML·136	distinct rupture at lake floor & fault trace at depth
9900	1900	ML·136	EOL shutdown for reducing
1	1925	ML·137	SOL Hdg 306° 4 m WD
2280	1938		EOL shutdown for weather
			End of day
	16:47	ML·138	SOL vent ? (Pilot 2 hr late arrival)
	17:08		EOL
	17:10	ML·139	SOL heading ~028° to line 140
	17:16		EOL
	17:18	ML-140	SOL vent? - bust, nothing apparent
	17:24		EOL
	17:40	ML-141	SOL dome or crater like feature in bathy
	18:00		EOL may be faulted on east side
	18:02	ML 142	SOL recross same feature. (fault!)
	18:19		EOL
	18:21	ML 143	SOL 100 m spacing
18:35	18:41		EOL tip blow out
	18:45	ML 144	SOL 100 m "
	19:06		EOL
	19:08	ML 145	SOL 100 m "
	19:27		EOL
	19:30	ML 146	SOL 100 m "

CRUISE: A-01-11-GA JD _____ FILE _____ Rec Length/ Fire Rate. _____ PAGE 8 OF 9

PING	GMT	Line Number	COMMENTS
	19:38	ML146	EOL 200 m spacing
	19:40	ML147	SOL fault SP 840
	19:49		EOL
			END OF DAY - thunder leads!
	15:14	ML148	SOL
	15:35		EOL
	15:37	ML149	SOL
	15:56		EOL
	16:04	ML150	SOL
	16:28		EOL
	16:36	ML151	SOL
	16:51		EOL
	16:55	ML152	SOL
	17:20		EOL
	17:26	ML 153	SOL
	17:51		EOL
	17:52	ML154	SOL
	18:07		EOL
	18:09	ML 155	SOL
	18:18		EOL TIP BURN OUT; RERUN
		ML155A	SOL
	18:44		EOL
	18:58	ML 156	SOL

CRUISE: A-01-11-GA JD _____ FILE _____ Rec Length/ Fire Rate. _____ PAGE 9 OF 9

PING	GMT	Line Number	COMMENTS
	19:23	ML156	EOL
	19:35	ML157	SOL fault at ~ SP 1360, fault also at SP 1780
	20:02		EOL
	20:06	ML158	SOL rerun east side - sparker tip probs
	20:36		EOL
			END OF DAY