

TESTING AND TECHNOLOGY
1027 Alabama Street, P. O. Box 4570
Vallejo, CA 94590
(707) 648-5014

INVOICE # 2212 TEST DATE 2/10/88

COMPANY NAME LAKE DEL VALLE PARK PHONE #
MAIL ADDRESS SEE BELOW
TANK ADDRESS DEL VALLE ROAD, LIVERMORE, CA
CONTACT NAME TED KREBS PHONE # (415) 843 2106
PROPERTY OWNER EAST BAY REGIONAL PARKS DISTRICT PHONE # SAME
MAILING ADDRESS 11500 SKYLINE BLVD., OAKLAND, CA

TANK INFORMATION

TANK #	ONE	TWO	THREE
PRODUCT	UNLEAD	REGULAR	DIESEL
CAPACITY	1,000	564	564
CONSTRUCTION	STEEL	STEEL	STEEL
DIAMETER	45"	48"	48"
FILL PIPE	48"	35"	34"
TANK BOTTOM DEPTH	93"	83"	82"
PUMP TYPE	SUCTION	SUCTION	SUCTION
VAPOR RECOVERY	NONE	PHASE II (UNUSED)	NONE
TANK WATER	3/8"	0	TRACE

TEST INFORMATION

TEST EQUIPMENT	HORNER	HORNER	HORNER
FULL SYST/TANK ONLY	FULL	FULL	FULL
DATE/TIME FILLED	2/8	2/8	2/8
GALLONS TO TOP OFF	160	280	340
GROUND WATER DEPTH	8'+	8'+	8'+

RESULTS

PASS - FAIL	PASS	PASS	PASS
LOSS RATE	-.0014	-.0373	-.0042

COMMENTS

TESTING AND TECHNOLOGY

TEST REPORT HORNER 'EZY CHEK' LEAK DETECTOR

COMPANY LAKE DEL VALLE PARK DATE 2/10/88 INVOICE 2212 TANK # ONE

PRODUCT UNLEAD CAPACITY 1,000 MEASURED API 59 TEMPERATURE 64

ADJUSTED API 58.5 COEF OF EXPANSION .00067535 = TEMP SHIFT FACTOR .6753

CALIBRATING ROD .05 DIVIDED BY # LINES 21.6 = CHART CALIB FACTOR .0023

OTHER 5 GALLONS ADDED AT 10:00 TO OVERFILL TANK FOR TEST

TIME	TEST HEIGHT	CHART #	CHART 'S	GAIN LOSS	CHART FACTR	LEVEL RESLT	TEMP STRT	TEMP END	GAIN LOSS	TEMP FACTR	TEMP RESULT	15 MIN RESULT IN GAL	HOURLY RESULT GAL/HR
10:30	29"	71	62	- 9	.0023	-.0207	.157	.152	-.005	.6753	-.0034	-.0173	
10:45		62	56	- 6		-.0138	.152	.171	+.019		+.0128	-.0266	
11:00		56	51	- 5		-.0115	.171	.153	-.018		-.0122	+0.0007	
11:15		51	47	- 4		-.0092	.153	.132	-.021		-.0142	+0.0050	-.0382
11:30		47	43	- 4		-.0092	.132	.128	-.004		-.0027	-.0065	-.0274
11:45		43	40	- 3		-.0069	.128	.110	-.018		-.0121	+0.0052	+0.0044
12:00		40	37	- 3		-.0069	.110	.095	-.015		-.0101	+0.0032	+0.0069
12:15		37	35	- 2		-.0046	.095	.093	-.002		-.0013	-.0033	-.0014

RESULTS CERTIFIED TIGHT YES AT TEST HEIGHT OF +29" LOSS RATE (GPH) -.0014 (+/-)

TESTED BY Frank T. Phelan

FRANK T. PHELAN

COMMENTS

THE DATA FOR THIS TEST MEETS NFPA 329 STANDARDS. THE EQUIPMENT USED TO GENERATE THIS DATA IS ABLE TO DETECT A PRODUCT LOSS AT THE RATE OF 0.05 GALLONS PER HOUR. THIS IS NOT TO BE CONSTRUED AS AN ALLOWABLE LEAK RATE, BUT RATHER AS AN ACCURACY TOLERANCE OF THE TESTING EQUIPMENT WHICH ALLOWS FOR THE MANY VARIABLES INVOLVED. TAT GUARANTEES ONLY THAT THE DATA FOR THIS REPORT MEETS NFPA CRITERIA ON THE DAY OF THIS TEST, TAT MAKES NO WARRANTY OF TANK AND/OR LINE FITNESS NOR DO WE ASSUME RESPONSIBILITY FOR ANY LEAKAGE WHICH MAY HAVE OCCURRED AS A RESULT OF THIS TEST.

TESTING AND TECHNOLOGY

TEST REPORT HORNER 'EZY CHEK' LEAK DETECTOR

COMPANY LAKE DEL VALLE PARK DATE 2/10/88 INVOICE 2212 TANK # TWO
 PRODUCT REGULAR GAS CAPACITY 564 MEASURED API 58 TEMPERATURE 66
 ADJUSTED API 57.3 COEF OF EXPANSION .00066841 = TEMP SHIFT FACTOR .37721
 CALIBRATING ROD .05 DIVIDED BY # LINES 23.5 = CHART CALIB FACTOR .0021
 OTHER 10 GALLONS ADDED AT 11:45 TO OVERFILL TANK FOR TEST

TIME	TEST HEIGHT	CHART #	GAIN LOSS	CHART FACTR	LEVEL RESLT	TEMP STRT	TEMP END	GAIN LOSS	TEMP FACTR	TEMP RESULT	15 MIN RESULT IN GAL	HOURLY RESULT GAL/HR
12:45	+27"	X X		.0021	X	.118	.973	-.045	.3772	-.0169	X	
13:00		X X			X	.973	.964	-.009		-.0034	X	
13:15		43 33	-10		-.0210	.964	.875	-.089		-.0335		+0.125
13:30		33 25	- 8		-.0168	.875	.855	-.020		-.0075		-.0093
13:45		61 54	- 7		-.0147	.855	.838	-.017		-.0064		-.0083
14:00		54 46	- 8		-.0168	.838	.818	-.020		-.0075		-.0093 -0.144
14:15		46 38	- 8		-.0168	.818	.806	-.012		-.0045		-.0123 -0.392
14:30		38 32	- 6		-.0126	.806	.792	-.014		-.0052		-.0074 -0.373

RESULTS CERTIFIED TIGHT YES AT TEST HEIGHT OF 27" LOSS RATE (GPH) -.0373 (+/-)

TESTED BY Frank Phelan

FRANK T. PHELAN

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TESTING AND TECHNOLOGY

TEST REPORT HORNER 'EZY CHEK' LEAK DETECTOR

COMPANY LAKE DEL VALLE PARK DATE 2/10/88 INVOICE 2212 TANK # THREE
 PRODUCT DIESEL CAPACITY 564 MEASURED API 33 TEMPERATURE 66
 ADJUSTED API 32.6 COEF OF EXPANSION .00045352 = TEMP SHIFT FACTOR .2558
 CALIBRATING ROD .05 DIVIDED BY # LINES 28.6 = CHART CALIB FACTOR .0017
 OTHER 8 GALLONS ADDED AT 10:15 TO OVERFILL TANK FOR TEST

TIME	TEST HEIGHT	CHART #'S	GAIN LOSS	CHART FACTR	LEVEL RESLT	TEMP STRT	TEMP END	GAIN LOSS	TEMP FACTR	TEMP RESULT	15 MIN	HOURLY
											RESULT IN GAL	RESULT GAL/HR
10:30	29"	53 38	-15	.0017	-.0255	.140	.158	+.018	.2558	+.0046	-.0301	
10:45		38 36	- 2		-.0034	.158	.133	-.025		-.0064	+.0030	
11:00		36 35	- 1		-.0017	.133	.122	-.011		-.0028	+.0011	
11:15		35 34	- 1		-.0017	.122	.145	+.023		+.0059	-.0076	-.0336
11:30		34 33	- 1		-.0017	.145	.135	-.010		-.0025	+.0008	-.0027
11:45		33 32	- 1		-.0017	.135	.141	+.006		+.0015	-.0032	-.0089
12:00		32 31	- 1		-.0017	.141	.138	-.003		-.0008	-.0009	-.0109
12:15		31 30	- 1		-.0017	.138	.135	-.003		-.0008	-.0009	-.0042

RESULTS CERTIFIED TIGHT YES AT TEST HEIGHT OF +29" LOSS RATE (GPH) -.0042 (+/-)

TESTED BY Frank Phelan

FRANK T. PHELAN

COMMENTS

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