

TABLE 1-A

SODA LAKE, NEVADA
LINE CS-77-1
PROCESSING FLOW

EDIT: Field to Library Tapes.
Kill dead traces.

GAIN ADJUST: -

FILTER: Field recording inverse filter. Spherical
divergence removed to $t = 4,000$ sec., exponential
gain (2 db/sec. applied to $t = 4,000$ sec.

STATICS: Field static corrections applied.

DECONVOLUTION: 80 msec. deconvolution operator.

AVC: 400 msec. automatic energy control applied on
trace-by-trace basis.

VELOCITY ANALYSIS: Constant velocity stack panels to determine
"best" single stacking velocity function.

NMO-STATICS: "Best" single stacking velocity function applied
to traces for NMO corrections (see Table 1-B)
kill bad traces.

FILTER: Band pass (10 cps, 18 db/octave - 75 cps,
35 db/octave) zero phase filter operator.

STATICS: Residual (automatic) static corrections applied.
Traces energy balanced.

VELOCITY ANALYSIS: Beam steering velocity analyses taken at 7 locations.

NMO-STACK: 1200% CDP Stacked time section, using 6 different
stacking velocity functions (see Table 1-C).

TABLE 1-B

SODA LAKE, NEVADA
CS-77-1
SINGLE VELOCITY FUNCTION

<u>Two-Way Time</u> (Sec.)	<u>VNMO</u> (Ft./Sec.)	<u>Z</u> (ft)
0	-	0
0.100	6575	328.8
0.200	6600	656.0
0.300	6675	1001.1
0.400	6975	1391.4
0.500	7200	1793.3
0.600	7500	2235.7
0.700	7825	2713.0
0.800	8300	3266.4
0.900	8725	3845.2
1.000	9000	4403.9
1.100	9325	5009.2
1.200	9625	5632.0
1.300	10100	6364.2
1.400	10500	7101.4
1.500	10900	7873.8
1.600	11400	8735.8
1.700	11800	9583.9
1.800	12275	10512.7
1.900	12600	11384.9
2.000	12900	12267.7

TABLE 2-A

SODA LAKE, NEVADA
LINE CS-77-2
PROCESSING FLOW

EDIT: Field to Library Tapes.
Kill dead traces.

GAIN ADJUST: Remove Spherical Divergence to $t = 2,000$ sec.
Exponential gain (5 db/sec.) applied to $t = 2,000$ sec.
Kill bad traces.

FILTER: Field recording inverse filter.

DECONVOLUTION: 76 msec. deconvolution operator.
40 msec. wave shaping filter.

STATICS: Field static corrections applied.
Traces energy balanced.

STATICS: Residual (automatic) static corrections applied.

VELOCITY ANALYSIS: Constant velocity stack panels to determine
"best" single stacking velocity function for
line.

NMO-STATICS: "Best" single stacking velocity function applied
to traces for NMO corrections (see Table 2-B).

AVC: 400 msec. automatic energy control operator
applied on trace-by-trace basis.

NMO-STACK: 1200% CDP stacked time section.

TABLE 2-B

SODA LAKE, NEVADA
 LINE CS-77-2
 "BEST" SINGLE STACKING VELOCITY FUNCTION

<u>Two-Way Time</u> (Sec.)	<u>VNMO</u> (Ft./Sec.)	<u>Z</u> (ft)
0	-	0
0.100	6850	342.5
0.200	6875	687.5
0.300	6900	1035.0
0.400	7150	1427.6
0.500	7200	1797.4
0.600	7325	2193.4
0.700	7400	2585.2
0.800	7500	2993.5
0.900	7650	3431.4
1.000	7725	3849.9
1.100	7850	4300.1
1.200	7975	4762.1
1.300	8100	5235.7
1.400	8250	5735.6
1.500	8400	6249.2
1.600	8650	6838.2
1.700	8750	7349.0
1.800	8900	7906.3
1.900	9000	8438.3
2.000	9175	9039.6

TABLE 3-A

SODA LAKE, NEVADA
LINE CS-77-3
PROCESSING FLOW

EDIT: Field to Library Tapes.
Kill dead traces.

GAIN ADJUST: Remove Spherical Divergence to 2,000 sec.
Exponential gain (5 db/sec.) applied to $t = 2,000$
sec.
Kill bad traces.

FILTER: Field recording inverse filter.

DECONVOLUTION: 76 msec. deconvolution operator.
40 msec. wave shaping filter.

STATICS: Field static corrections applied.
Traces energy balanced.

STATICS: Residual (automatic) static corrections applied.

VELOCITY ANALYSIS: Constant velocity stack panels to determine
"best" single stacking velocity function for
line.

NMO-STATICS: "Best" single stacking velocity function applied
to traces for NMO corrections (see Table 3-B).

AVC: 400 msec. automatic energy control operator
applied on a trace-by-trace basis.

NMO-STACK: 1200% CDP stacked time section.

TABLE 3-B

SODA LAKE, NEVADA
 LINE CS-77-3
 "BEST" SINGLE STACKING VELOCITY FUNCTION

<u>Two-Way Time</u>	<u>VNMO</u>	<u>Z</u>
(Sec.)	(Ft./Sec.)	(ft)
0	-	0
0.100	6800	340.0
0.200	6850	685.0
0.300	6900	1034.9
0.400	6950	1389.8
0.500	7000	1749.6
0.600	7100	2128.7
0.700	7200	2517.3
0.800	7600	3015.3
0.900	8000	3549.0
1.000	8500	4154.2
1.200	9600	5538.8
1.400	11000	7253.5
1.600	12400	9210.8
2.000	14000	13031.5

TABLE 4-A

SODA LAKE, NEVADA
 LINE CS-77-1, S.P. NO. 1
 VELOCITY ANALYSIS

<u>Time</u>	<u>Time</u> <u>Thickness</u>	<u>V_{NMO}</u>	<u>V_T</u>	<u>Th.</u>	<u>Z</u>
(Sec.)	(Sec.)	(Ft./Sec.)	(Ft./Sec.)	(Ft.)	(Ft.)
0	-	-	-	-	0
-	0.0728	-	6156	448	-
0.1455	-	6156	-	-	448
-	0.0470	-	7063	332	-
0.2394	-	6527	-	-	780
-	0.0544	-	6346	345	-
0.3481	-	6471	-	-	1125
-	0.1033	-	7583	783	-
0.5546	-	6906	-	-	1908
-	0.1792	-	10601	1899	-
0.9129	-	8549	-	-	3807

TABLE 4-B

SODA LAKE, NEVADA
 LINE CS-77-1, S.P. NO. 7
 VELOCITY ANALYSIS

<u>Time</u>	<u>Time</u> <u>Thickness</u>	<u>V_{NMO}</u>	<u>V_I</u>	<u>Th</u>	<u>Z</u>
(Sec.)	(Sec.)	(Ft./Sec.)	(Ft./Sec.)	(Ft.)	(Ft.)
0	-	-	-	-	0
-	0.0780	-	6438	502	-
0.1560	-	6438	-	-	502
-	0.0379	-	7064	268	-
0.2318	-	6649	-	-	770
-	0.1714	-	6776	581	-
0.4032	-	6703	-	-	1350
-	0.0847	-	8085	684	-
0.5725	-	7140	-	-	2035
-	0.1721	-	9647	1660	-
0.9167	-	8172	-	-	3695

TABLE 4-C

SODA LAKE, NEVADA
 LINE CS-77-1, S.P. NO. 14
 VELOCITY ANALYSIS

<u>Two-Way Time</u>	<u>Time Thickness</u>	<u>V_{NMO}</u>	<u>V_I</u>	<u>Th</u>	<u>Z</u>
(Sec.)	(Sec.)	(Ft./Sec.)	(Ft./Sec.)	(Ft.)	(Ft.)
0	-	-	-	-	0
-	0.0840	-	6540	549	-
0.1681	-	6540	-	-	549
-	0.0302	-	7339	222	-
0.2284	-	6760	-	-	771
-	0.1067	-	6902	736	-
0.4418	-	6829	-	-	1507
-	0.0588	-	10356	609	-
0.5593	-	7705	-	-	2116
-	0.1542	-	9174	1415	-
0.8677	-	8257	-	-	3531

TABLE 4-D

SODA LAKE, NEVADA
 LINE CS-77-1, S.P. NO. 21
 VELOCITY ANALYSIS

<u>Two-Way Time</u> (Sec.)	<u>Time Thickness</u> (Sec.)	<u>V_{NMO}</u> (Ft./Sec.)	<u>V_T</u> (Ft./Sec.)	<u>Th</u> (Ft.)	<u>Z</u> (Ft.)
0	-	-	-	-	0
-	0.0604	-	6361	384	-
0.1209	-	6361	-	-	384
-	0.0595	-	7029	418	-
0.2399	-	6701	-	-	802
-	0.0872	-	7975	695	-
0.4144	-	7265	-	-	1498
-	0.0620	-	7408	459	-
0.5383	-	7298	-	-	1957
-	0.1992	-	10301	2052	-
0.9368	-	8703	-	-	4009

TABLE 4-E

SODA LAKE, NEVADA
 LINE CS-77-1, S.P. NO. 27
 VELOCITY ANALYSIS

<u>Two-Way</u> <u>Time</u>	<u>Time</u> <u>Thickness</u>	<u>V_{NMO}</u>	<u>V_I</u>	<u>Th</u>	<u>Z</u>
(Sec.)	(Sec.)	(Ft./Sec.)	(Ft./Sec.)	(Ft.)	(Ft.)
0	-	-	-	-	0
-	0.0911	-	6589	600	-
0.1822	-	6589	-	-	600
-	0.0297	-	7002	208	-
0.2416	-	6693	-	-	808
-	0.1324	-	8285	1096	-
0.5063	-	7567	-	-	1905
-	0.0770	-	10986	845	-
0.6602	-	9488	-	-	2750
-	0.0921	-	13053	1202	-
0.8443	-	9669	-	-	3952

TABLE 4-F

SODA LAKE, NEVADA
 LINE CS-77-1, S.P. NO. 42
 VELOCITY ANALYSIS

<u>Two-Way Time</u>	<u>Time Thickness</u>	<u>V_{NMO}</u>	<u>V_I</u>	<u>T_b</u>	<u>Z</u>
(Sec.)	(Sec.)	(Ft./Sec.)	(Ft./Sec.)	(Ft.)	(Ft.)
0	-	-	-	-	0
-	0.0429	-	7032	301	-
0.0857	-	7032	-	-	301
-	0.0449	-	6348	285	-
0.1755	-	6716	-	-	586
-	0.0720	-	10522	757	-
0.3194	-	8630	-	-	1343
-	0.0779	-	5362	417	-
0.4751	-	7713	-	-	1761
-	0.0925	-	5647	522	-
0.6601	-	7194	-	-	2283

TABLE 4-G

SODA LAKE, NEVADA
 LINE CS-77-1, S.P. NO. 48
 VELOCITY ANALYSIS

<u>Two-Way Time</u>	<u>Time Thickness</u>	<u>V_{NMO}</u>	<u>V_T</u>	<u>Th</u>	<u>Z</u>
(Sec.)	(Sec.)	(Ft./Sec.)	(Ft./Sec.)	(Ft.)	(Ft.)
0	-	-	-	-	0
-	0.0490	-	7056	345	-
0.0979	-	7056	-	-	345
-	0.0455	-	6882	313	-
0.1889	-	6973	-	-	658
-	0.0615	-	9980	614	-
0.3119	-	8290	-	-	1272
-	0.0718	-	6934	498	-
0.4554	-	7888	-	-	1770
-	0.0646	-	7552	487	-
0.5845	-	7815	-	-	2257

Soda Lake, Nevada

Line CS -77-1 (single) Stacking Velocity Function

Two Way Time (sec)

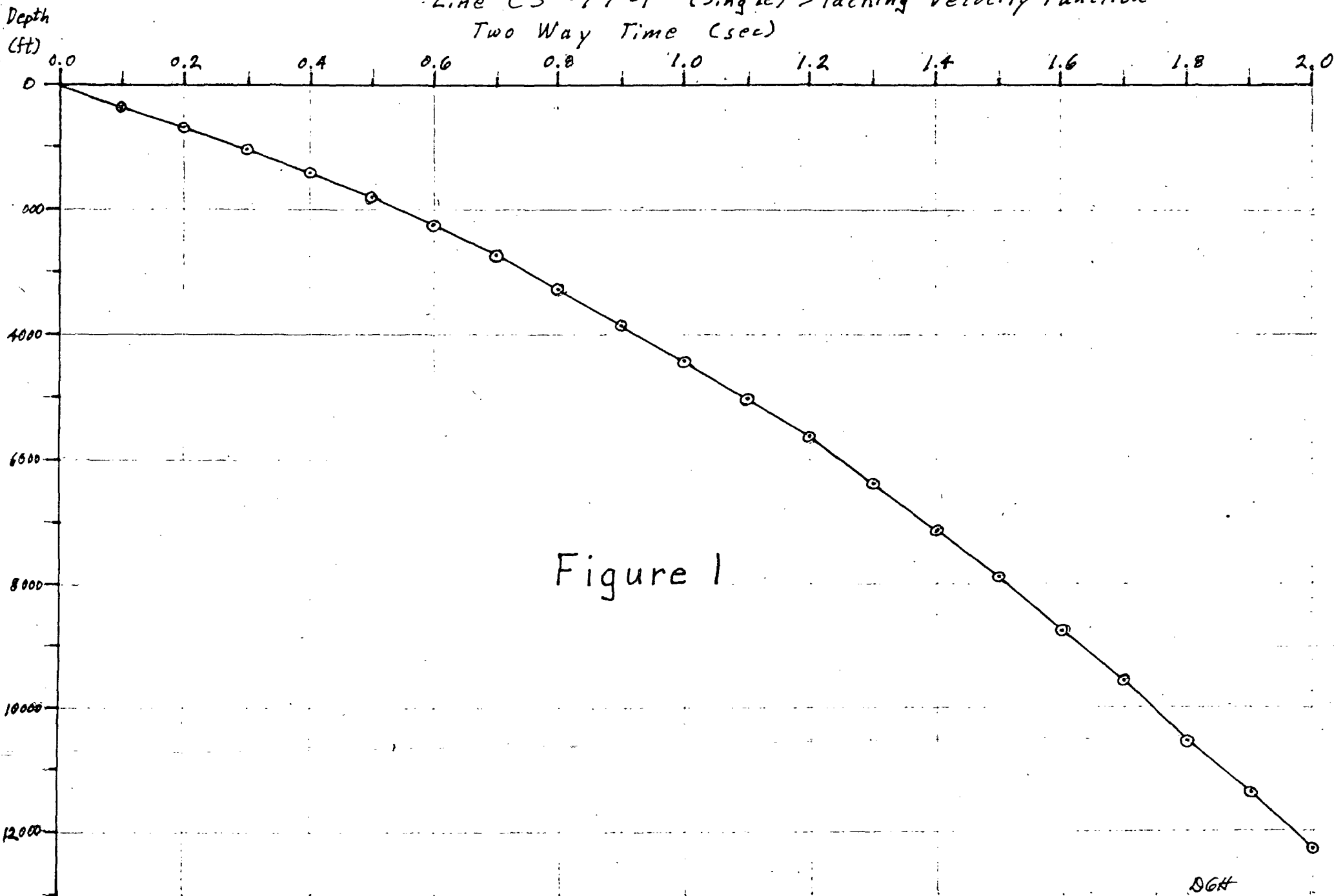


Figure 1

DGH

8-24-79

Soda Lake, Nevada

Line CS-77-2 (Single) Stacking Velocity Function

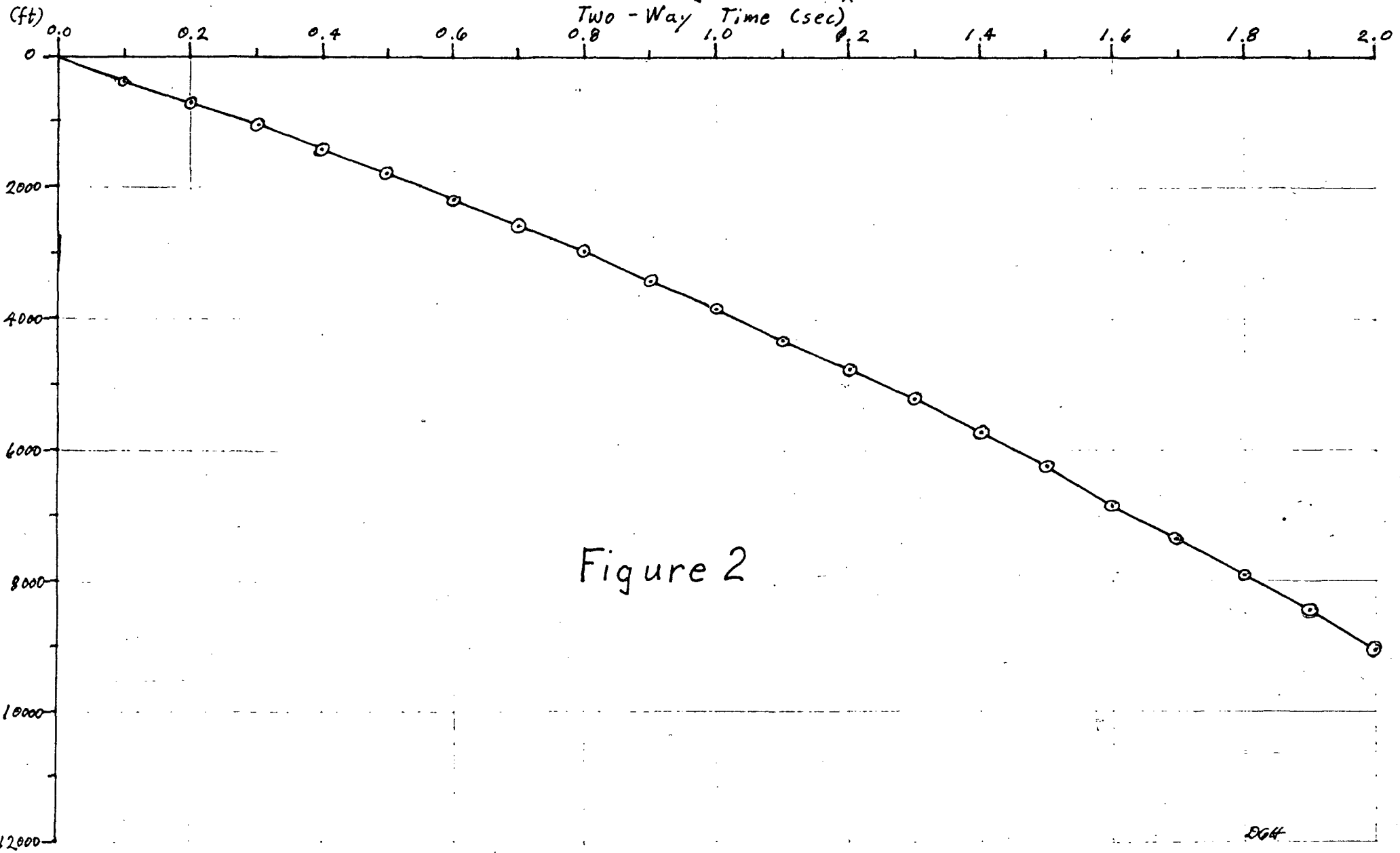


Figure 2

DGH
8-24-79

Soda Lake, Nevada

Line CS - 77 - 3, (Single) Stacking Velocity Function
Two-Way Time (sec)

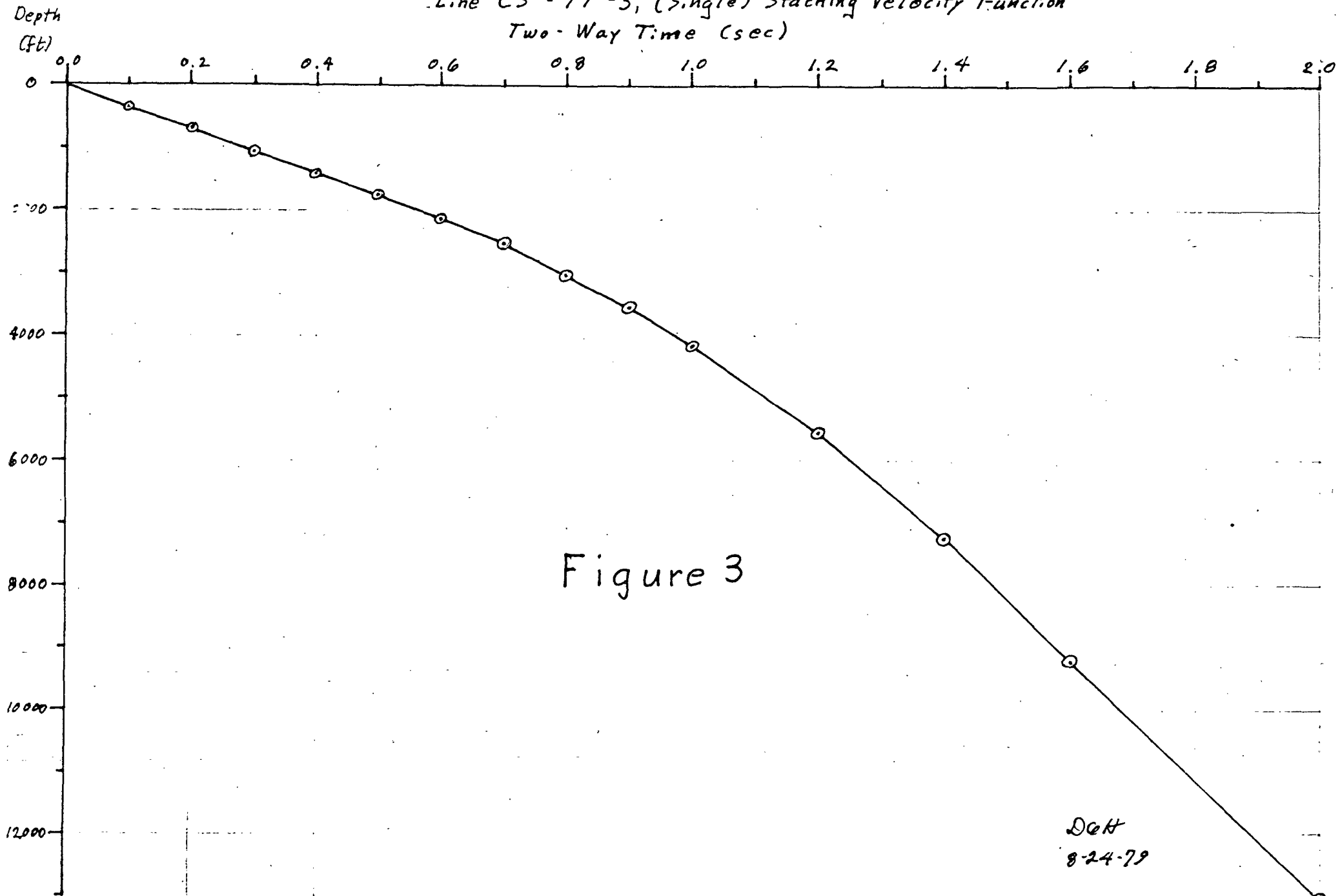


Figure 3

DGH
8-24-79

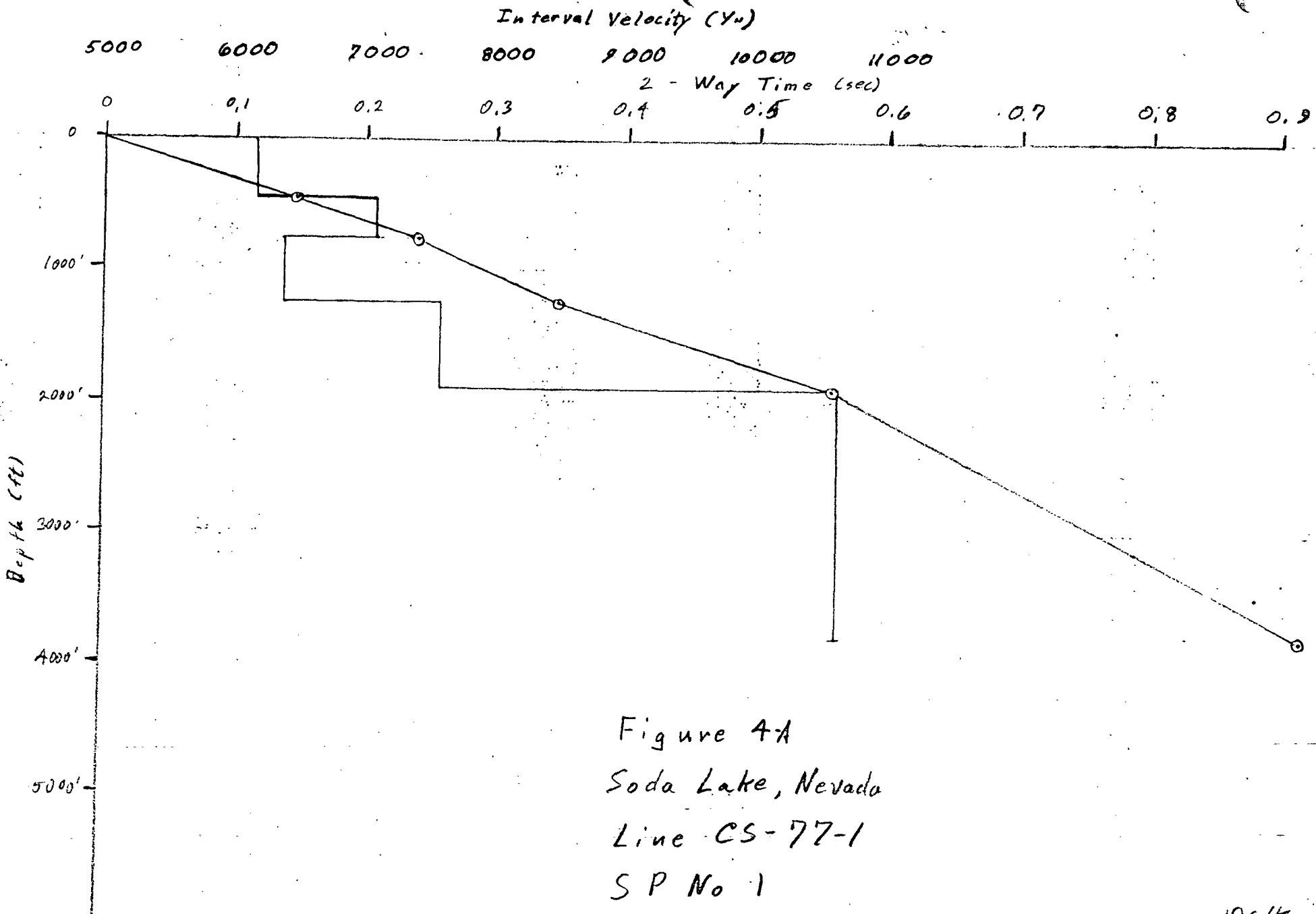


Figure 4A
 Soda Lake, Nevada
 Line CS-77-1
 SP No 1
 Velocity Analysis

196H
 7-20-79

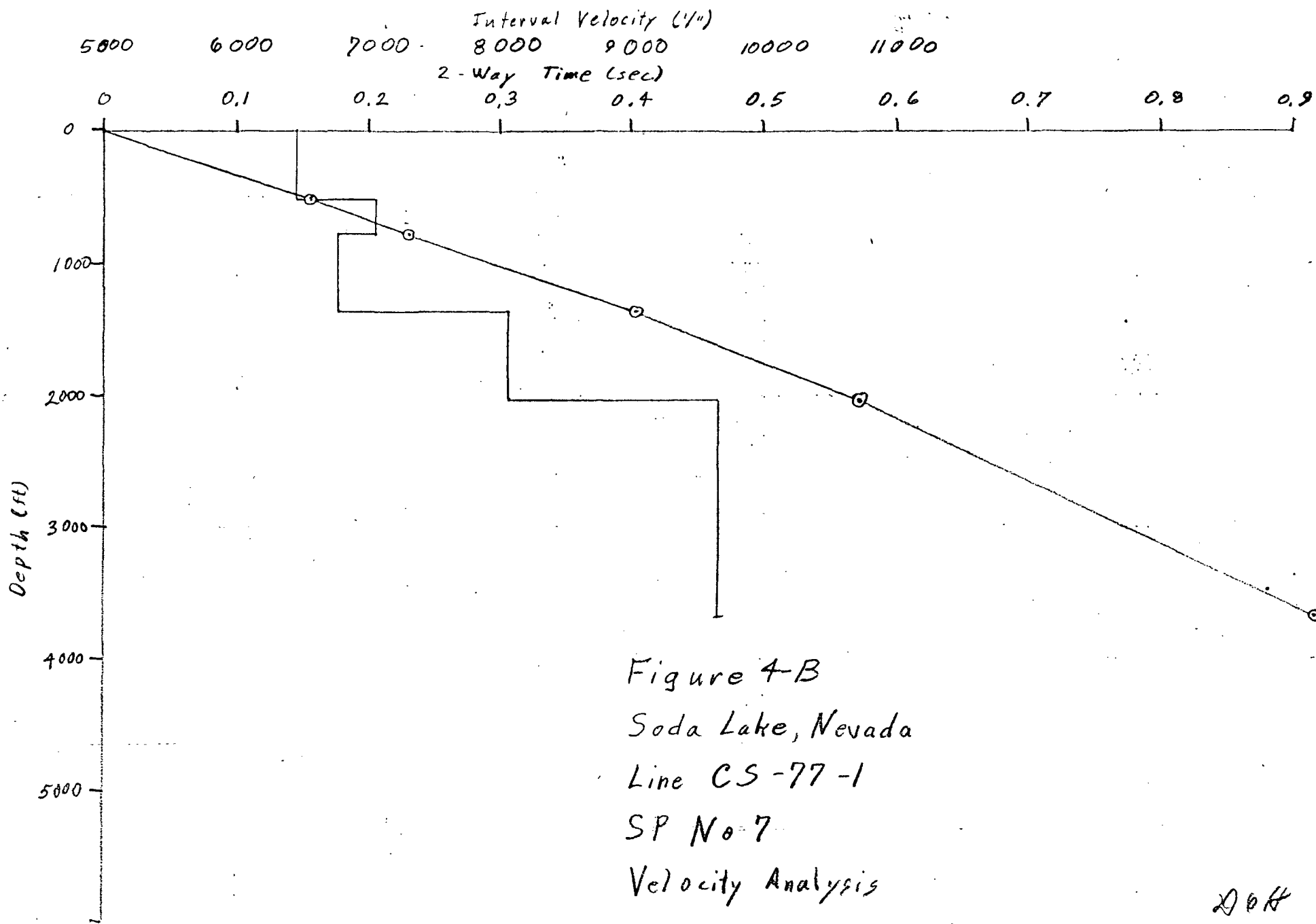


Figure 4-B
 Soda Lake, Nevada
 Line CS-77-1
 SP No 7
 Velocity Analysis

DOK
 7-20-79

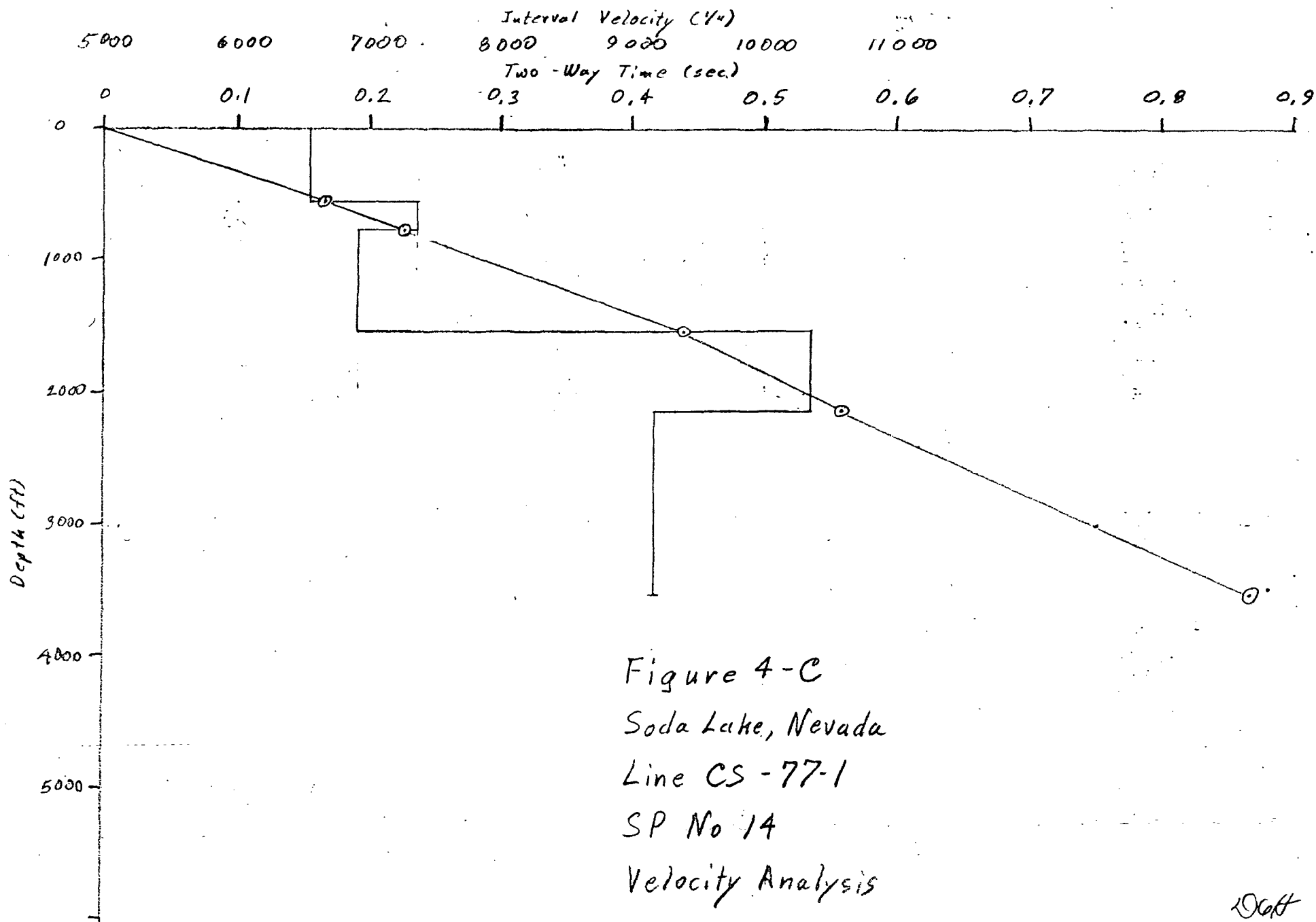
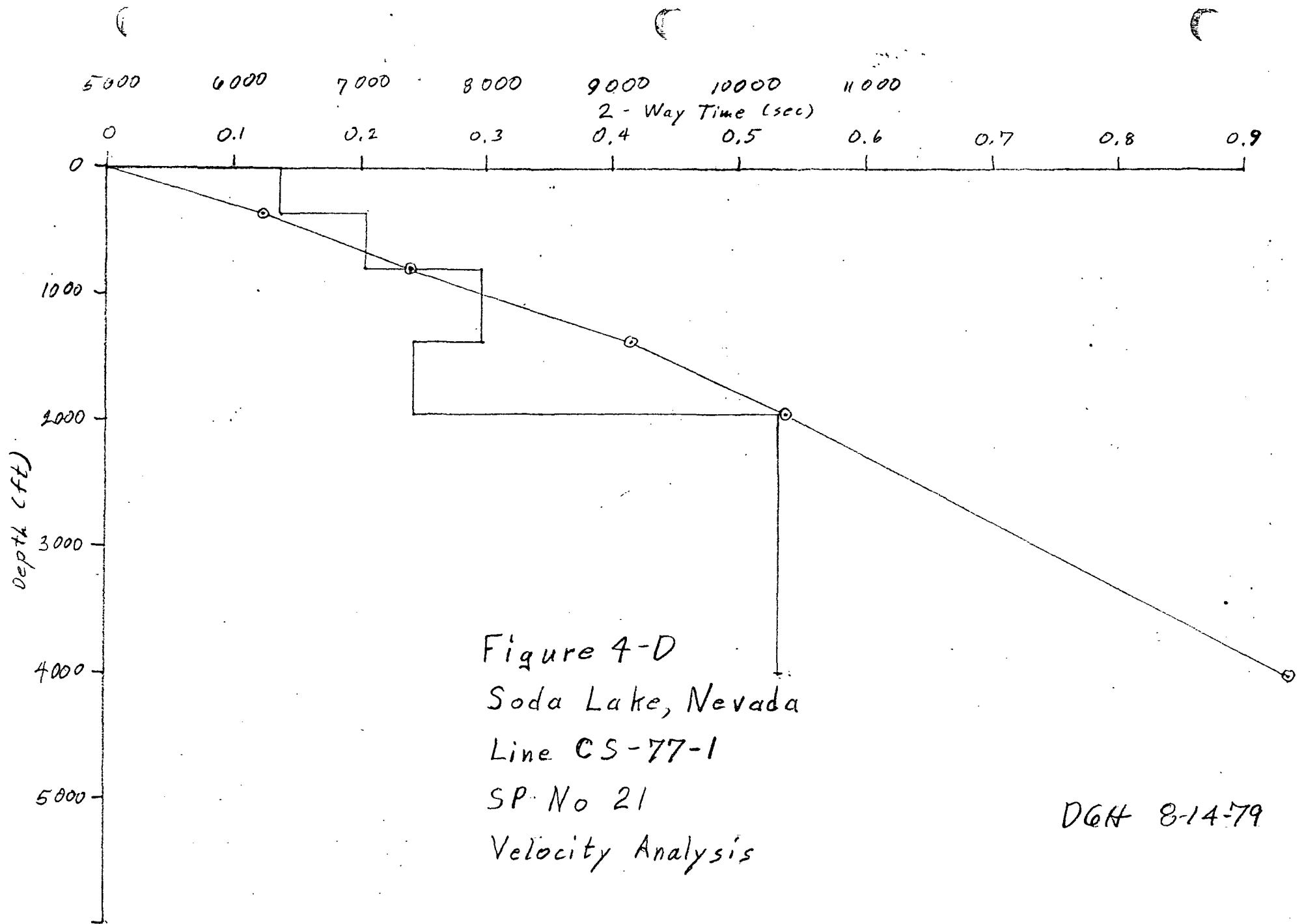


Figure 4-C
 Soda Lake, Nevada
 Line CS-77-1
 SP No 14
 Velocity Analysis

Datt
 7-20-79



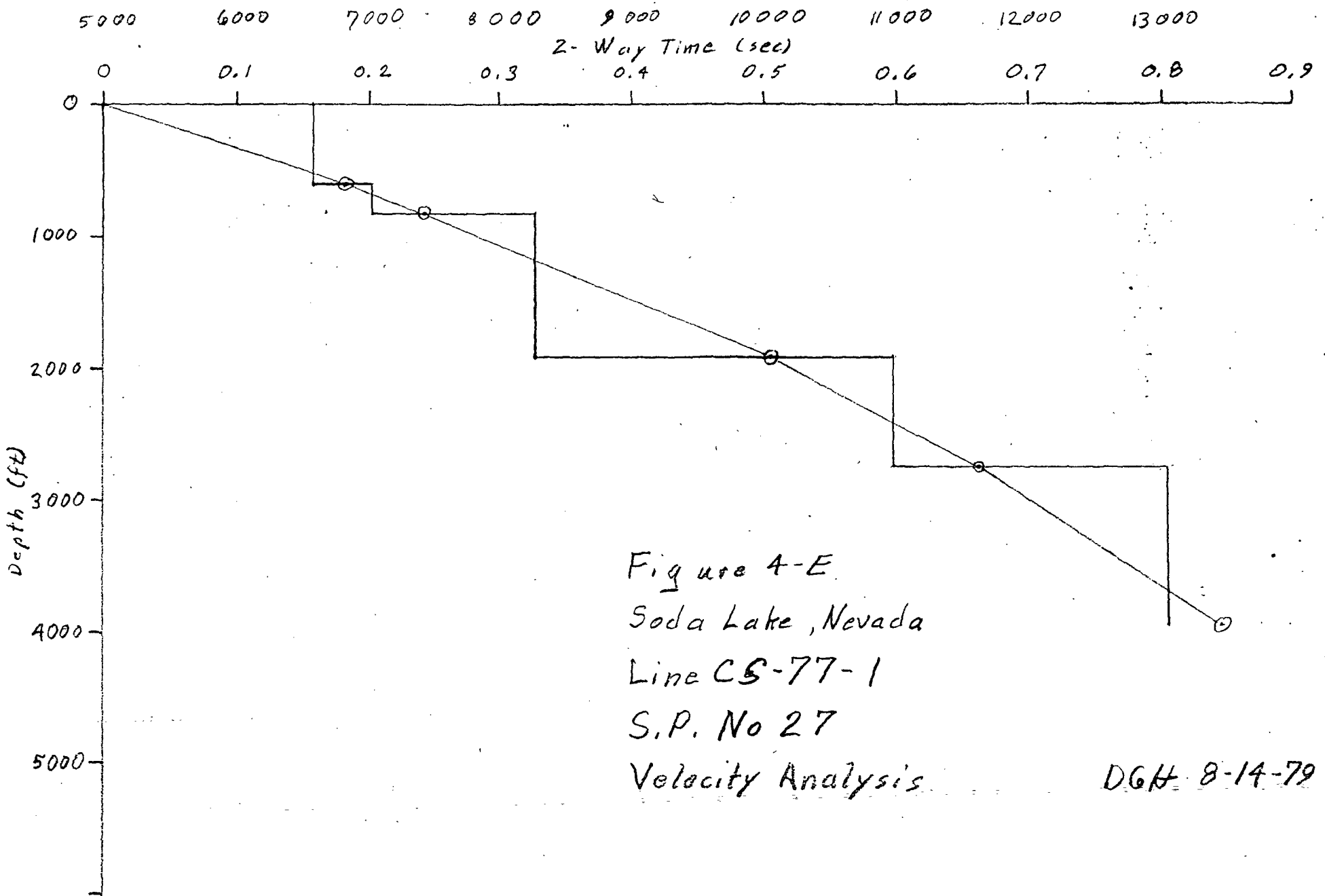
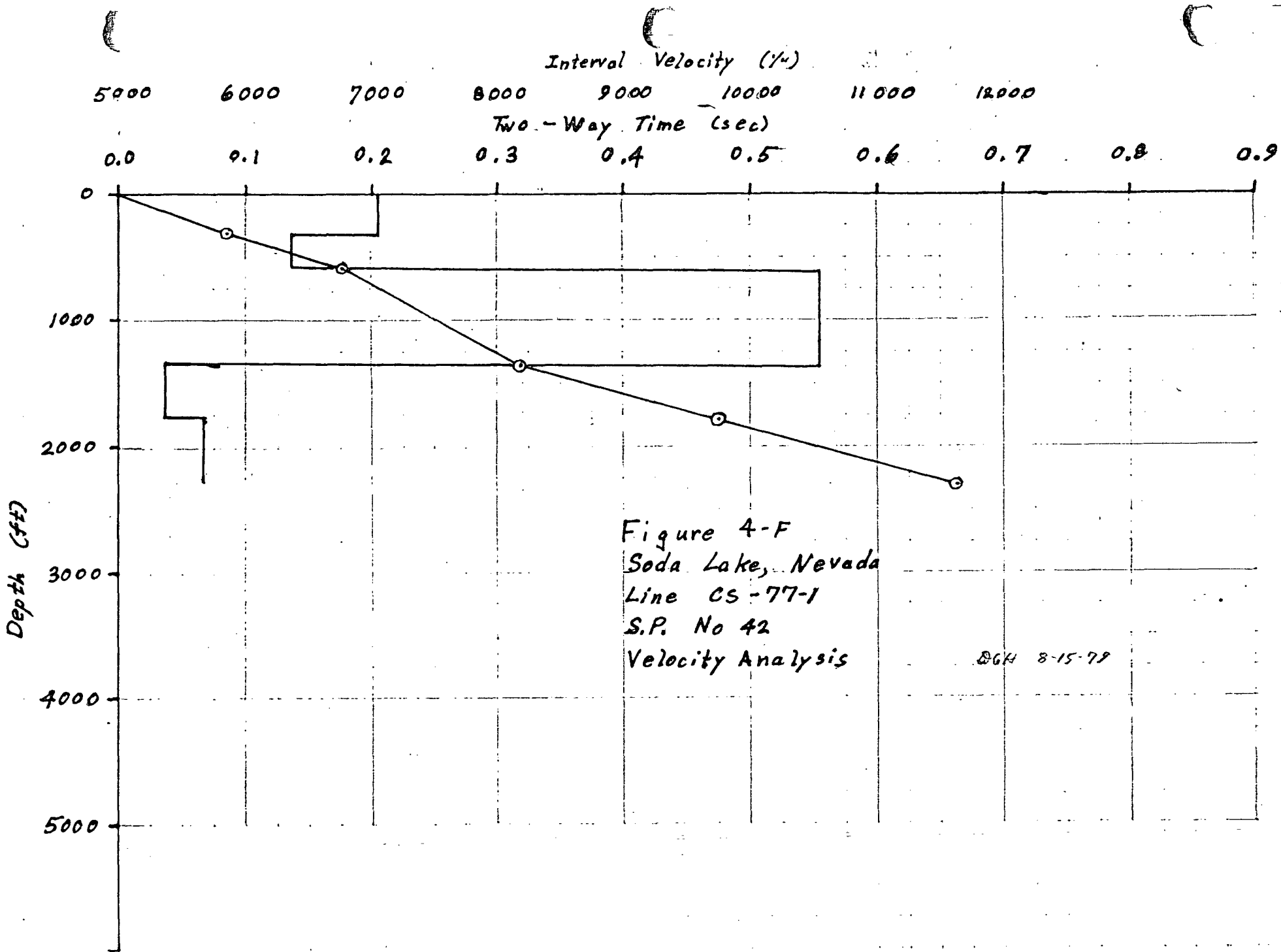


Figure 4-E
 Soda Lake, Nevada
 Line CS-77-1
 S.P. No 27
 Velocity Analysis

DGH 8-14-79



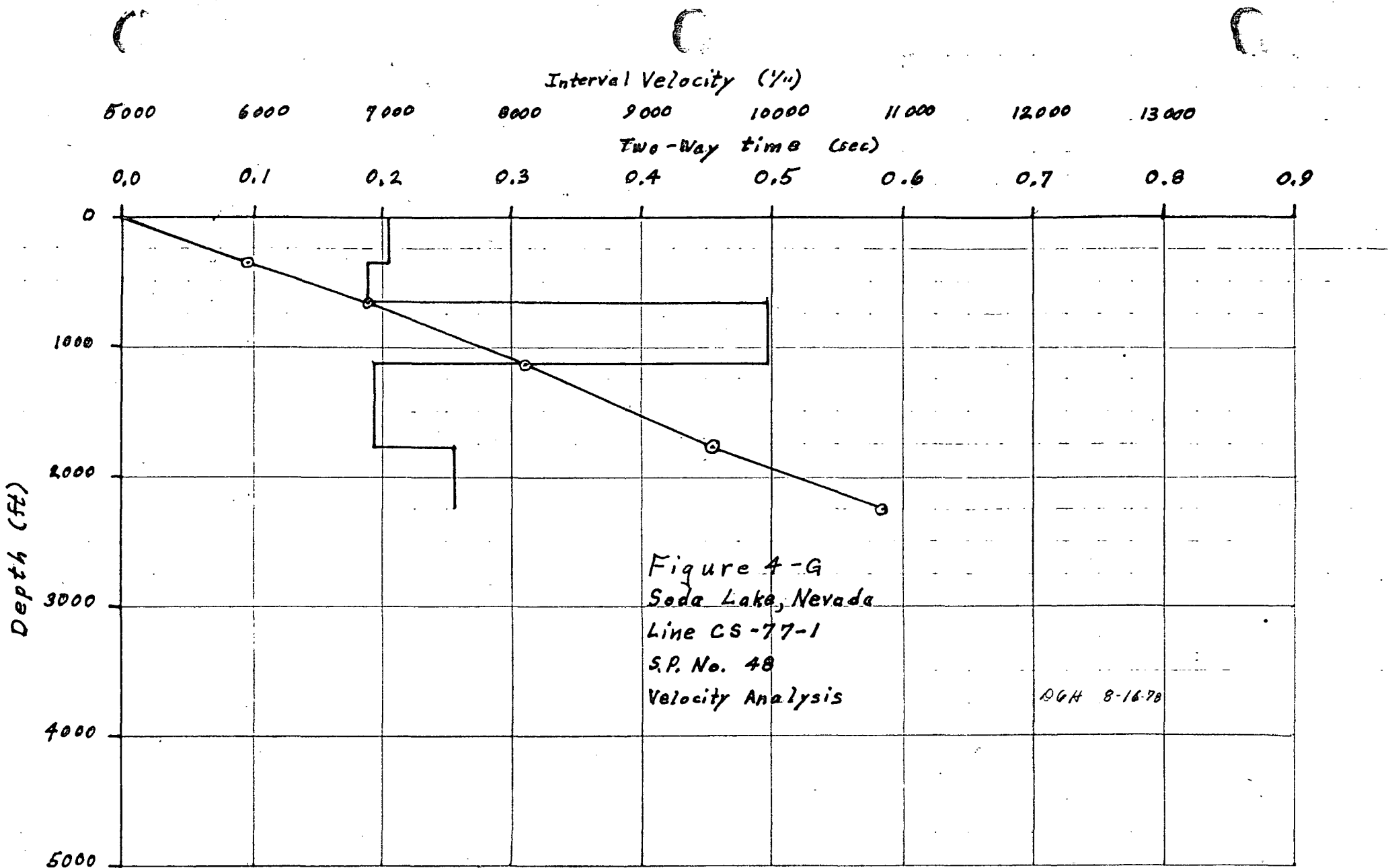


Figure 4-G
 Soda Lake, Nevada
 Line CS-77-1
 S.P. No. 48
 Velocity Analysis

DGH 8-16-78