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 \* INSTRUMENT SERVICE INC. \*  
 \* VENTURA (805)653-6609 \*  
 \* BAKERSFIELD (805)325-0502 \*  
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COMPANY NAME...: COSO OPERATING CO.

DATE .....: 03/23/99

WELL I.D. ....: TCH 48-11

FIELD I.D. ....: COSO #2

RUN # .....: 2

ENGINEER .....: GARY FOSTER

ZERO REFERENCE: GROUND LEVEL

WELL STATUS...: STATIC

GAUGE INFO:

I.D. ....: K2-T

SERIAL #.....: 15097

RANGE.....: 60-440

COMMENTS .....

FILE # .....: 20

STATISTICS:

DEPTH(min): 100.00

DEPTH(max): 3034.00

TEMPERATURE(min): 118.43

TEMPERATURE(max): 205.27

NO.	DEPTH		TEMPERATURE		GRADIENT
	DEFL (IN)	FEET	DEFL (IN)	DEG	
1	-0.2133	100.000	0.1885	119.38	0.0000
2	-0.1981	150.002	0.1855	118.43	-0.0189
3	-0.1827	200.662	0.1916	120.35	0.0379
4	-0.1676	250.335	0.2043	124.06	0.0747
5	-0.1524	300.337	0.2136	126.37	0.0460
6	-0.1371	350.668	0.2270	129.68	0.0659
7	-0.1219	400.670	0.2417	133.32	0.0728
8	-0.1068	450.343	0.2625	138.47	0.1036
9	-0.0915	500.674	0.2904	145.37	0.1372
10	-0.0764	550.347	0.3115	150.60	0.1051
11	-0.0613	600.020	0.3370	156.91	0.1271
12	-0.0461	650.022	0.3665	164.21	0.1460
13	-0.0309	700.024	0.3714	165.42	0.0243
14	-0.0156	750.355	0.3819	168.02	0.0516
15	-0.0004	800.357	0.3843	168.61	0.0119
16	0.0148	850.359	0.3902	170.07	0.0292
17	0.0301	900.690	0.3918	170.47	0.0079
18	0.0453	950.692	0.3944	171.11	0.0129
19	0.0604	1000.365	0.3951	171.29	0.0035
20	0.0755	1050.038	0.3952	171.31	0.0005
21	0.0908	1100.369	0.3952	171.31	0.0000
22	0.1059	1150.042	0.3970	171.76	0.0090
23	0.1211	1200.044	0.3989	172.23	0.0094
24	0.1363	1250.046	0.3976	171.91	-0.0064
25	0.1516	1300.377	0.3967	171.68	-0.0044
26	0.1668	1350.379	0.3969	171.73	0.0010
27	0.1819	1400.052	0.3977	171.93	0.0040
28	0.1971	1450.054	0.3985	172.13	0.0040

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Company .: COSO OPERATING CO.  
 Well I.D.: TCH 48-11  
 Field I.D.: COSO #2

Date: 03/23/99  
 Run#: 2  
 Page: 2

NO.	DEPTH		TEMPERATURE		GRADIENT
	DEFL (IN)	FEET	DEFL (IN)	DEG	
29	0.2124	1500.385	0.3987	172.18	0.0010
30	0.2276	1550.387	0.3996	172.40	0.0045
31	0.2428	1600.390	0.4012	172.81	0.0083
32	0.2580	1650.392	0.4023	173.10	0.0058
33	0.2731	1700.065	0.4042	173.60	0.0100
34	0.2883	1750.067	0.4066	174.23	0.0126
35	0.3036	1800.398	0.4090	174.85	0.0125
36	0.3188	1850.400	0.4117	175.56	0.0141
37	0.3339	1900.073	0.4139	176.13	0.0116
38	0.3492	1950.404	0.4157	176.61	0.0094
39	0.3643	2000.077	0.4209	177.97	0.0274
40	0.3795	2050.079	0.4241	178.80	0.0167
41	0.3947	2100.081	0.4256	179.19	0.0078
42	0.4099	2150.083	0.4303	180.42	0.0246
43	0.4252	2200.414	0.4343	181.47	0.0208
44	0.4404	2250.416	0.4358	181.86	0.0078
45	0.4555	2300.089	0.4405	183.09	0.0247
46	0.4707	2350.091	0.4441	184.03	0.0188
47	0.4861	2400.751	0.4489	185.29	0.0248
48	0.5011	2450.095	0.4531	186.39	0.0223
49	0.5163	2500.097	0.4581	187.69	0.0261
50	0.5316	2550.428	0.4630	188.97	0.0255
51	0.5468	2600.430	0.4660	189.76	0.0157
52	0.5620	2650.432	0.4768	192.58	0.0565
53	0.5772	2700.434	0.4810	193.68	0.0220
54	0.5924	2750.436	0.4884	195.62	0.0387
55	0.6076	2800.438	0.4935	196.95	0.0267
56	0.6227	2850.111	0.5020	199.17	0.0447
57	0.6380	2900.442	0.5056	200.11	0.0187
58	0.6531	2950.115	0.5134	202.15	0.0411
59	0.6683	3000.117	0.5191	203.64	0.0298
60	0.6786	3034.000	0.5253	205.27	0.0479

\*\*\*\*\* end data \*\*\*\*\*

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COMPANY NAME...: COSO OPERATING CO.

DATE .....: 03/23/99

WELL I.D. ....: TCH 48-11

FIELD I.D. ....: COSO #2

RUN # .....: 2

ENGINEER .....: GARY FOSTER

ZERO REFERENCE: GROUND LEVEL

WELL STATUS...: STATIC

GAUGE INFO:

I.D. ....: K-2

SERIAL #.....: 19252

RANGE.....: 2150/1150

COMMENTS .....: PICKUP FOUND AT 3034'

FILE # .....: 19

STATISTICS:

DEPTH(min): 0.00

DEPTH(max): 3034.00

PRESSURE(min): 0.00

PRESSURE(max): 1060.40

NO.	DEPTH		PRESSURE		GRADIENT
	DEFL (IN)	FEET	DEFL (IN)	PSI	
1	-0.2041	0.000	0.0000	0.00	0.0000
2	-0.1695	100.000	0.0000	0.00	0.0000
3	-0.1273	200.000	0.0000	0.00	0.0000
4	-0.0792	300.000	0.0000	0.00	0.0000
5	-0.0246	400.000	0.0000	0.00	0.0000
6	0.0128	500.000	0.0000	0.00	0.0000
7	0.0550	600.000	0.0228	24.04	0.2404
8	0.0915	700.000	0.0647	68.21	0.4418
9	0.1210	800.000	0.1017	107.22	0.3901
10	0.1547	900.000	0.1425	150.24	0.4302
11	0.1893	1000.000	0.1852	195.26	0.4502
12	0.2215	1100.000	0.2239	236.71	0.4146
13	0.2552	1200.000	0.2649	280.73	0.4402
14	0.2848	1300.000	0.3033	321.95	0.4122
15	0.3262	1400.000	0.3459	367.69	0.4573
16	0.3556	1500.000	0.3821	406.49	0.3880
17	0.3873	1600.000	0.4232	450.19	0.4370
18	0.4186	1700.000	0.4621	491.55	0.4136
19	0.4575	1800.000	0.5023	534.29	0.4274
20	0.4871	1900.000	0.5447	579.37	0.4508
21	0.5158	2000.000	0.5875	625.13	0.4576
22	0.5549	2100.000	0.6241	664.45	0.3931
23	0.5879	2200.000	0.6641	707.41	0.4296
24	0.6210	2300.000	0.7022	748.34	0.4092
25	0.6554	2400.000	0.7404	789.37	0.4103
26	0.6851	2500.000	0.7806	832.90	0.4353
27	0.7223	2700.000	0.8587	917.70	0.4240
28	0.7536	2800.000	0.9022	964.93	0.4723

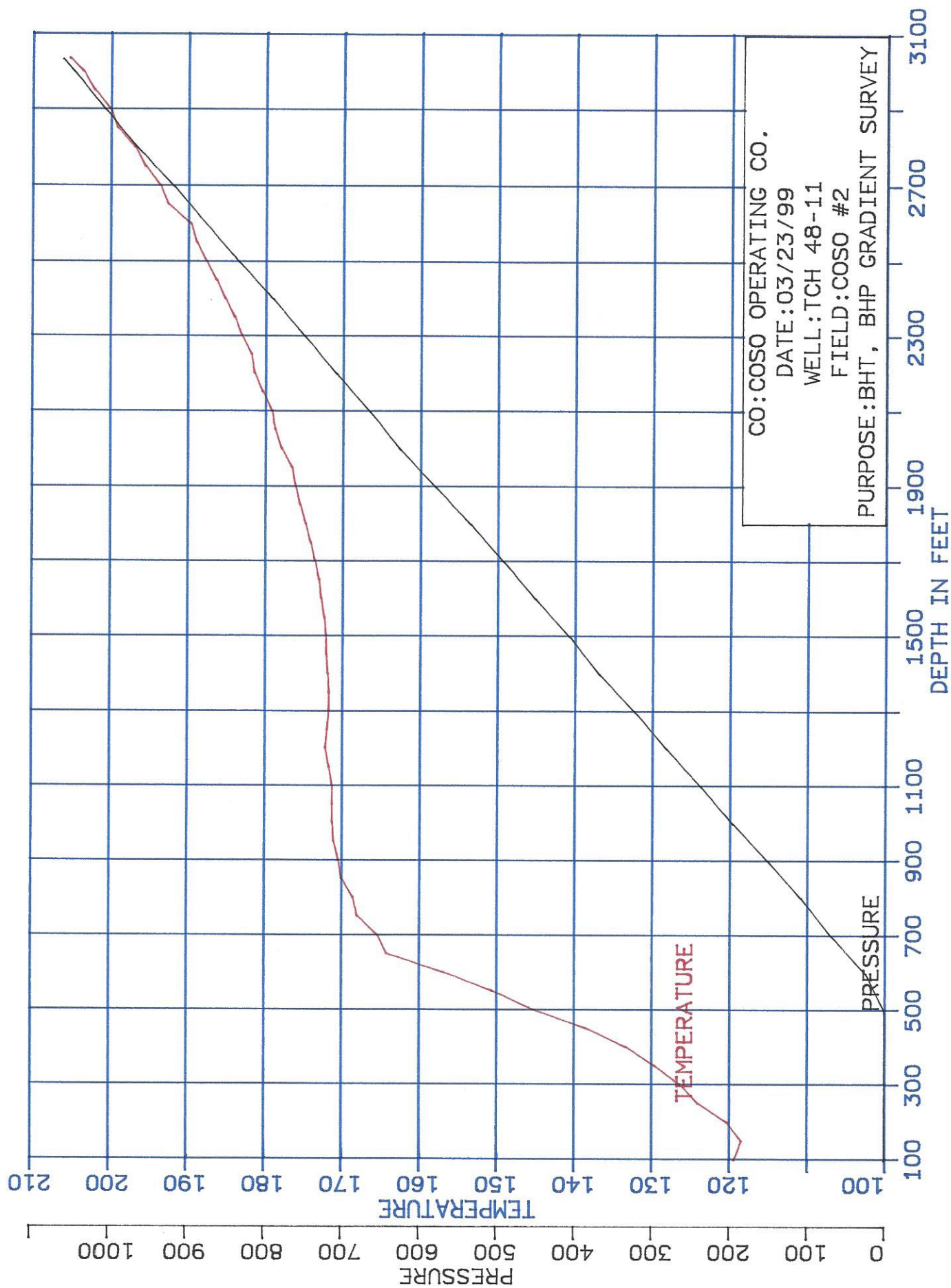
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Company .: COSO OPERATING CO.  
 Well I.D.: TCH 48-11  
 Field I.D.: COSO #2

Date: 03/23/99  
 Run#: 2  
 Page: 2

NO.	DEPTH		PRESSURE		GRADIENT
	DEFL (IN)	FEET	DEFL (IN)	PSI	
29	0.7875	2900.000	0.9398	1005.83	0.4090
30	0.8209	3000.000	0.9764	1046.09	0.4026
31	0.8513	3034.000	0.9894	1060.40	0.4206

\*\*\*\*\* end data \*\*\*\*\*



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CALIBRATION FILE: 185  
GAUGE I.D. ....: K-2  
SERIAL NUMBER...: 19252  
RANGE.....: 2150 @ 400F  
LAST CAL DATE...: 03/20/99  
TYPE.....: PRESSURE

DEFL(IN)	PRESSURE(PSI)
0.0000	0.000
0.1897	200.000
0.3760	400.000
0.5641	600.000
0.7503	800.000
0.9345	1000.000
1.1163	1200.000
1.3000	1400.000
1.4868	1600.000
1.6724	1800.000
1.8567	2000.000
2.0000	2154.594

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CALIBRATION FILE: 7  
GAUGE I.D. ....: K2-T  
SERIAL NUMBER...: 15097  
RANGE.....: 60-440  
LAST CAL DATE...: 03/20/99  
TYPE.....: TEMPERATURE

DEFL (IN)	TEMPERATURE (DEG)
0.0000	60.000
0.2000	123.000
0.4000	172.500
0.6000	224.800
0.8000	273.000
1.0000	311.000
1.2000	342.800
1.4000	373.700
1.6000	400.200
1.8000	421.100
2.0000	440.000