

G E O OPERATOR CORP (5240)
PRATI NO: 32
GEYSERS FIELD, CA.
JANUARY 1985
DATA PROVIDED BY THE OPERATOR

VERTICAL SECTION CALCULATED IN PLANE OF PROPOSAL
DIRECTION: N 55 DEG. 0 MIN. W

RECORD OF SURVEY

ANGLE AVERAGING METHOD

CONFIDENTIAL

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET	VERTICAL SECTION FEET	RECTANGULAR COORDINATES FEET	DOGLEG SEVERITY DG/100FT
0.	0 0	0	0.	0.00	0.00	0.00 0.00	0.00
160.	0 15	S 87 E	160.	160.00	-0.30	0.02 S 0.35 E	0.16
306.	0 45	S 14 E	146.	305.99	-1.57	0.83 S 1.33 E	0.49
393.	0 30	S 27 W	87.	392.99	-2.02	1.77 S 1.22 E	0.57
498.	1 0	S 28 W	105.	497.98	-2.20	2.99 S 0.59 E	0.48
594.	0 45	S 42 W	96.	593.97	-2.20	4.19 S 0.25 W	0.34
721.	0 45	N 43 E	127.	720.96	-3.85	5.31 S 0.97 E	1.18
848.	1 15	N 22 E	127.	847.94	-3.75	3.45 S 2.17 E	0.48
975.	1 45	N 7 W	127.	974.90	-2.21	0.15 S 2.60 E	0.70
1102.	2 15	N 18 E	127.	1101.82	-0.03	4.26 N 3.02 E	0.78
1195.	2 0	N 2 E	93.	1194.75	1.43	7.66 N 3.62 E	0.69
1320.	2 0	N 3 E	125.	1319.68	3.77	12.02 N 3.81 E	0.03
1416.	2 15	N 18 E	96.	1415.61	5.25	15.52 N 4.46 E	0.63
1543.	2 45	N 42 E	127.	1542.49	5.73	20.31 N 7.23 E	0.90
1671.	2 30	N 39 E	128.	1670.36	5.17	24.77 N 11.04 E	0.22
1830.	2 15	N 29 E	159.	1829.22	5.28	30.23 N 14.72 E	0.30
1989.	2 0	N 28 E	159.	1988.11	5.95	35.42 N 17.54 E	0.16
2148.	1 45	N 12 E	159.	2147.03	7.30	40.30 N 19.32 E	0.36
2267.	2 0	N 4 E	119.	2265.96	9.06	44.16 N 19.86 E	0.30
2394.	1 45	N 18 W	127.	2392.89	11.84	48.28 N 19.35 E	0.60
2552.	2 15	N 26 W	158.	2550.80	16.47	53.40 N 17.29 E	0.36
2709.	3 0	N 42 W	157.	2707.63	23.18	59.36 N 13.26 E	0.66
2868.	4 0	N 62 W	159.	2866.34	32.87	65.33 N 5.62 E	0.98
2980.	5 15	N 62 W	112.	2977.97	41.84	69.57 N 2.36 W	1.12
3078.	5 15	N 62 W	98.	3075.56	50.74	73.78 N 10.28 W	0.00
3171.	5 0	N 66 W	93.	3168.19	58.94	77.43 N 17.74 W	0.47
3297.	4 45	N 66 W	126.	3293.73	69.45	81.78 N 27.52 W	0.20
3420.	4 45	N 70 W	123.	3416.31	79.38	85.60 N 36.97 W	0.27
3545.	4 30	N 67 W	125.	3540.90	89.18	89.29 N 46.35 W	0.28
3668.	4 0	N 74 W	123.	3663.56	97.96	92.33 N 54.94 W	0.59

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3787.	4 0	N 82 W	119.	3782.27	105.60	94.06 N	63.06 W	0.47
3911.	4 15	N 87 W	124.	3905.95	113.37	94.91 N	71.94 W	0.35
4035.	4 30	S 89 W	124.	4029.59	121.21	95.08 N	81.39 W	0.32
4157.	4 45	S 85 W	122.	4151.19	128.96	94.56 N	91.22 W	0.33
4189.	4 45	S 80 W	32.	4183.08	130.92	94.22 N	93.85 W	1.29
4303.	4 30	S 78 W	114.	4296.71	137.30	92.46 N	102.87 W	0.26
4327.	5 15	S 80 W	24.	4320.63	138.72	92.08 N	104.87 W	3.20
4357.	5 45	S 86 W	30.	4350.49	140.85	91.72 N	107.72 W	2.54
4390.	6 0	N 87 W	33.	4383.32	143.60	91.70 N	111.10 W	2.30
4419.	6 30	N 80 W	29.	4412.14	146.38	92.05 N	114.24 W	3.14
4451.	6 45	N 74 W	32.	4443.93	149.80	92.88 N	117.84 W	2.30
4482.	7 0	N 67 W	31.	4474.71	153.38	94.12 N	121.33 W	2.82
4510.	7 0	N 62 W	28.	4502.50	156.74	95.59 N	124.41 W	2.18
4571.	7 0	N 52 W	61.	4563.04	164.17	99.64 N	130.65 W	2.00
4603.	7 15	N 50 W	32.	4594.80	168.13	102.14 N	133.73 W	1.10
4665.	7 30	N 52 W	62.	4656.28	176.07	107.15 N	139.92 W	0.58
4724.	8 0	N 55 W	59.	4714.74	184.02	111.88 N	146.31 W	1.09
4840.	7 30	N 64 W	116.	4829.69	199.62	119.82 N	159.79 W	1.13
4930.	7 45	N 64 W	90.	4918.89	211.41	125.05 N	170.53 W	0.28
5020.	7 30	N 62 W	90.	5008.09	223.24	130.47 N	181.17 W	0.41
5114.	7 30	N 62 W	94.	5101.29	235.42	136.23 N	192.00 W	0.00
5203.	7 45	N 62 W	89.	5189.50	247.14	141.78 N	202.43 W	0.28
5295.	7 15	N 68 W	92.	5280.71	258.97	146.85 N	213.31 W	1.01
5366.	7 30	N 71 W	71.	5351.13	267.79	150.05 N	221.85 W	0.65
5428.	7 30	N 77 W	62.	5412.60	275.44	152.28 N	229.63 W	1.26
5520.	8 0	N 78 W	92.	5503.76	286.90	154.96 N	241.74 W	0.56
5613.	9 0	N 75 W	93.	5595.74	299.69	158.17 N	255.10 W	1.18
5705.	9 0	N 82 W	92.	5686.60	312.89	161.04 N	269.21 W	1.19
5761.	9 0	N 81 W	56.	5741.91	320.73	162.33 N	277.87 W	0.28
5792.	9 15	N 87 W	31.	5772.52	325.03	162.85 N	282.76 W	3.17

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5939.	10 0	N 63 W	147.	5917.45	348.13	169.21 N 306.50 W	2.76
6023.	10 15	N 52 W	84.	6000.14	362.88	177.14 N 318.96 W	2.32
6098.	10 30	N 51 W	75.	6073.92	376.36	185.55 N 329.53 W	0.41
6158.	10 0	N 52 W	60.	6132.96	387.02	192.20 N 337.88 W	0.88
6201.	10 0	N 45 W	43.	6175.31	394.44	197.15 N 343.47 W	2.83
6248.	9 30	N 36 W	47.	6221.63	402.14	203.20 N 348.64 W	3.41
6359.	10 0	N 33 W	111.	6331.02	419.75	218.69 N 359.29 W	0.64
6453.	10 0	N 34 W	94.	6423.60	434.94	232.30 N 368.30 W	0.18
6582.	10 0	N 37 W	129.	6550.64	456.05	250.54 N 381.31 W	0.40
6707.	9 0	N 47 W	125.	6673.92	476.15	265.87 N 395.11 W	1.54
6833.	9 0	N 47 W	126.	6798.37	495.67	279.31 N 409.53 W	0.00
6958.	9 0	N 55 W	125.	6921.83	515.18	291.62 N 424.73 W	1.00
7075.	8 45	N 55 W	117.	7037.43	533.23	301.97 N 439.51 W	0.21
7212.	9 0	N 57 W	137.	7172.79	554.36	313.79 N 457.03 W	0.29
7371.	8 15	N 56 W	159.	7329.99	578.20	326.95 N 476.92 W	0.48
7498.	7 45	N 66 W	127.	7455.76	595.78	335.52 N 492.38 W	1.16
7561.	8 0	N 76 W	63.	7518.16	604.08	338.33 N 500.54 W	2.21
7627.	8 45	N 77 W	66.	7583.46	613.02	340.58 N 509.89 W	1.16
7689.	9 30	N 79 W	62.	7644.67	622.07	342.62 N 519.50 W	1.31
7812.	10 30	N 82 W	123.	7765.81	641.35	346.15 N 540.57 W	0.92
7911.	11 15	N 82 W	99.	7863.03	657.99	348.74 N 559.07 W	0.76
8037.	12 45	N 84 W	126.	7986.27	681.12	351.94 N 585.07 W	1.24
8133.	13 30	N 89 W	96.	8079.77	699.71	353.27 N 606.83 W	1.42
8259.	13 0	N 90 W	126.	8202.41	723.51	353.52 N 635.70 W	0.44
8350.	14 0	N 88 W	91.	8290.90	741.12	353.89 N 656.94 W	1.21
8450.	15 15	N 87 W	100.	8387.66	762.42	354.99 N 682.17 W	1.28
8567.	16 30	N 88 W	117.	8500.20	789.41	356.39 N 714.14 W	1.09
8638.	17 30	N 89 W	71.	8568.09	806.72	356.93 N 734.89 W	1.47
8731.	19 45	S 89 W	93.	8656.22	831.05	356.93 N 764.60 W	2.51
8791.	20 0	S 88 W	60.	8712.65	847.45	356.40 N 784.99 W	0.70

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COMPUTATION
 TIME DATE
 14:47:06 24-JAN-85

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MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET	VERTICAL SECTION FEET	R E C T A N G U L A R C O O R D I N A T E S FEET		DOGLEG SEVERITY DG/100FT
8855.	21 0	N 90 W	64.	8772.60	865.58	356.01 N	807.40 W	1.91
8917.	22 0	N 88 W	62.	8830.28	884.42	356.40 N	830.12 W	2.00
9011.	21 30	N 90 W	94.	8917.59	913.29	357.01 N	864.94 W	0.95
9070.	21 15	S 87 W	59.	8972.53	930.58	356.45 N	886.44 W	1.90
9177.	20 45	S 85 W	107.	9072.42	960.38	353.77 N	924.69 W	0.82
9262.	21 0	S 81 W	85.	9151.84	982.89	350.08 N	954.75 W	1.70
9399.	20 15	S 76 W	137.	9280.06	1016.11	340.46 N	1002.04 W	1.40
9526.	19 30	S 74 W	127.	9399.50	1043.86	329.29 N	1043.75 W	0.80
9590.	18 30	S 77 W	64.	9460.01	1057.39	324.07 N	1063.92 W	2.18
9600.	18 30	S 77 W	10.	9469.50	1059.51	323.36 N	1067.01 W	0.00

STA. AT 9600' IS PROJECTED.

FINAL CLOSURE - DIRECTION: N 73 DEGS 8 MINS W
 DISTANCE: 1114.93 FEET

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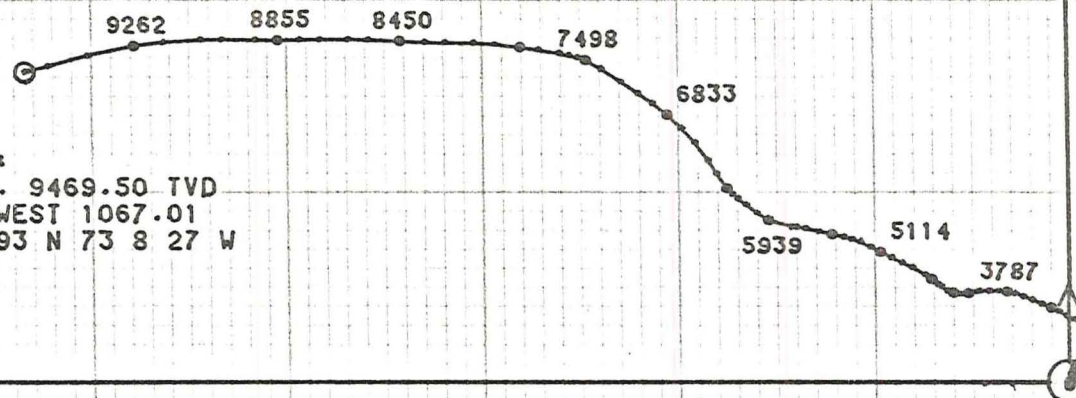
G E O OPERATOR CORP (5240)
PRATI NO: 32
GEYSERS FIELD. CA.

EASTMAN WHIPSTOCK. INC.

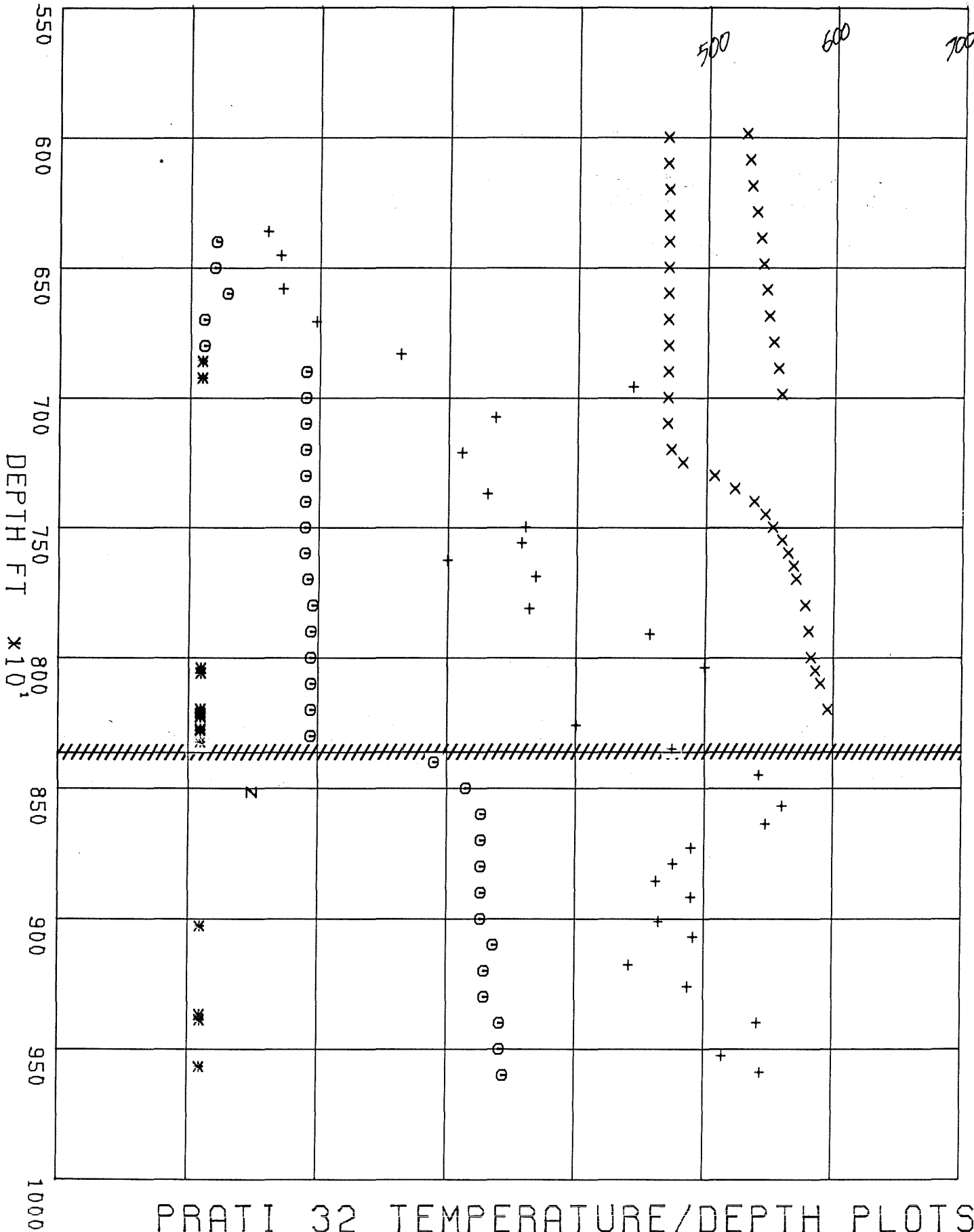
HORIZONTAL PROJECTION

SCALE 1 IN. = 200 FEET
DEPTH INDICATOR: MD

FINAL STATION:
DEPTH 9600 MD. 9469.50 TVD
NORTH 323.36 WEST 1067.01
CLOSURE 1114.93 N 73 8 27 W



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PRATI 32 TEMPERATURE/DEPTH PLOTS

- X - TEMPERATURE LOG
- Y - STEAM ENTRY FROM ELECTRIC LOG
- + - BOTTOM HOLE THERMOMETER
- Z - TOP OF HORNFELSIC GRAYWACKE
- O - FLOW LINE TEMPERATURE OUT

//////////////////// - Est. Top of High Temperature Reservoir