

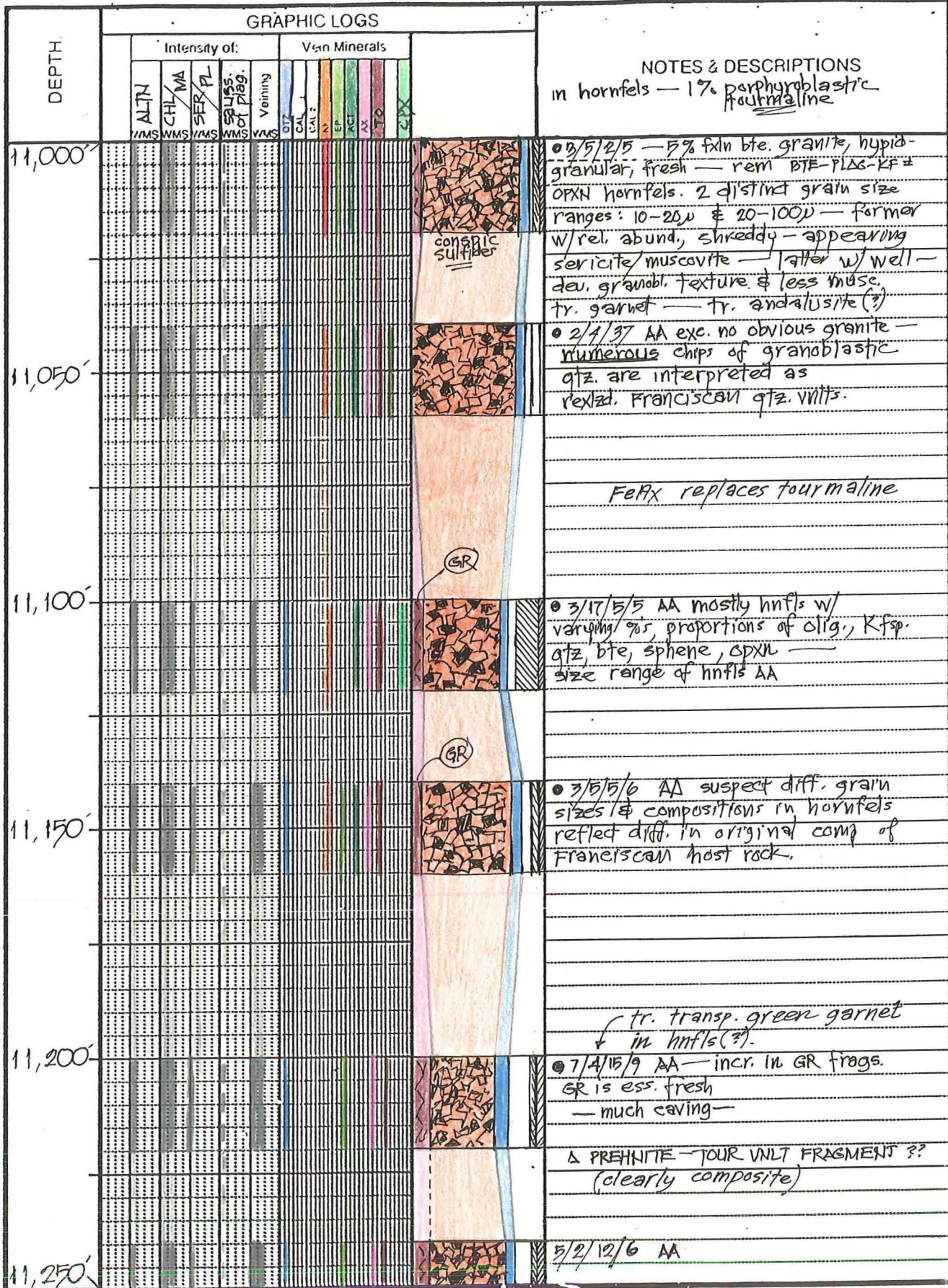
GEYSERS
FELSITE

WELLS ANG-1 to GDC-5

DEPTH	GRAPHIC LOGS													LITHOLOGY AND CONTAMINANTS	NOTES & DESCRIPTIONS
	Intensity of:						Vsn Minerals								
	ALTR	CH/MA	SER/PL	SP/ST	PL/EP	Venning	OX	CL	EP	ACT	TR	GR			
11,250'														gr contains minor hbl.	
11,300'														tr. tourmaline/plagioclase sev. chips and pyro encapsulated in rust	
11,350'														• % intrusive increases: HORNBLENDE-BIOTITE-OPX GRANITE, hypid.-granular avg. grain size 0.1-0.2 mm up to 0.5 mm (at least) prob. n 5% TL mafics — NO ACICULAR RUTILE BUT TR APATITE — could be a mafic differentiate of the East Geysers granodiorite	
11,400'														• (AA) note: further search reveals more rutile — suspect X is a GRP-GR hybrid as in GRC-21.	
11,440'														• AA, but much less contam. only tr. rutile, but quite abundant apatite — also (Ab) — suspect this is variant of East Geysers granodiorite — rock is quite fresh — tr. epidote, tr. tourm. after plag.	
TR														• GRANITE becomes much coarser-grained (at least 0.30 mm); much more acicular rutile appears; hornblende diminished; also less apatite — this rock really looks like the typical Geysers granite rather than the GRP — exc. for the hbl. — ANG — ERD — GR	

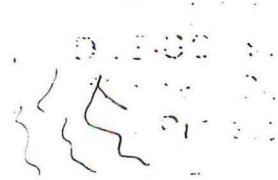
Borehole No. ANG-1
 Depth Interval 11,250-11,440'

Logged By JH
 Date _____



Borehole No. AUG-1
 Depth Interval 11,000 - 11,250'

Logged By JH
 Date _____



✓✓ 0.3%
 ✓✓ 0.2%
 ✓ 0.1%
 . <0.1%

ANG-1 RECALC.
 TO ELIMINATE
 CONTAMINATION

MINERALOGY, APPROX. WT.% (or) RELATIVE ABUNDANCE

SAMPLE NO.

QUARTZ
 PLAGIOCL.
 K-FELDSP.
 CALCITE
 ORN
 CPW
 ACTINOLITE
 EPIDOTE
 PREHNITE
 ZIMMERMANNITE
 MAGNETITE
 SPHELE
 LEUCONITE
 PYRITE
 CPY
 TOURMALINE
 FERROXINITE
 BIOTITE
 ILLITE
 CHLORITE
 TALC
 PYROPH.
 SERPENTINE
 "RUTILE"
 APATITE
 vein throgs
 & veins
 TL contain.

11,000-20	35	22	5	4	2	TR		1	2	2/Tr	3	1	11	9	13					6	10	
11,040-60	28	19	6	4	2	TR		1	2	1/Tr	6	1	15	8	12					8	9	
11,100-25 (26)	26	24	26	4	3	1		1	3	1/Tr	4	1	(2)	8	(11)					7	25	
11,140-60	25	17	6	4	2	1	TR	2	3	2/Tr	4	2	13	8	11					7	14	
11,200-20	23	18	6	4	Tr	4	3	1	1	3	2/Tr	5	1	8	11					12	26	
11,240-60	22	18	9	2	Tr	2	1	1	2	2/Tr	4	1	12	6	7					7	10	
11,300-20	35	25	15	2	2/2	2	TR	TR	1	Tr/Tr	2	2	7	2	3				✓	7	40	
11,340-60	37	27	17	2	3/Tr	2	TR	1	1	1/Tr	4	2	8	2	4					✓	12	51
11,400-20	41	29	18	3	1	1	1	TR	1	Tr	1	TR	3	TR	1				•	✓	4	27
11,440-60	37	32	20	2	1/Tr	2	1	TR	1	Tr	1	TR	3	TR	1				✓✓	•	5	13

Tr. garnet

MM = PREDOMINANT M = MAJOR m = MINOR Tr = TRACE ? = TENTATIVE IDENTIFICATION



SUMMARY OF X-RAY DIFFRACTION ANALYSIS
 UNIVERSITY OF UTAH RESEARCH INSTITUTE, EARTH SCIENCE LABORATORY

mag
* scale in large part

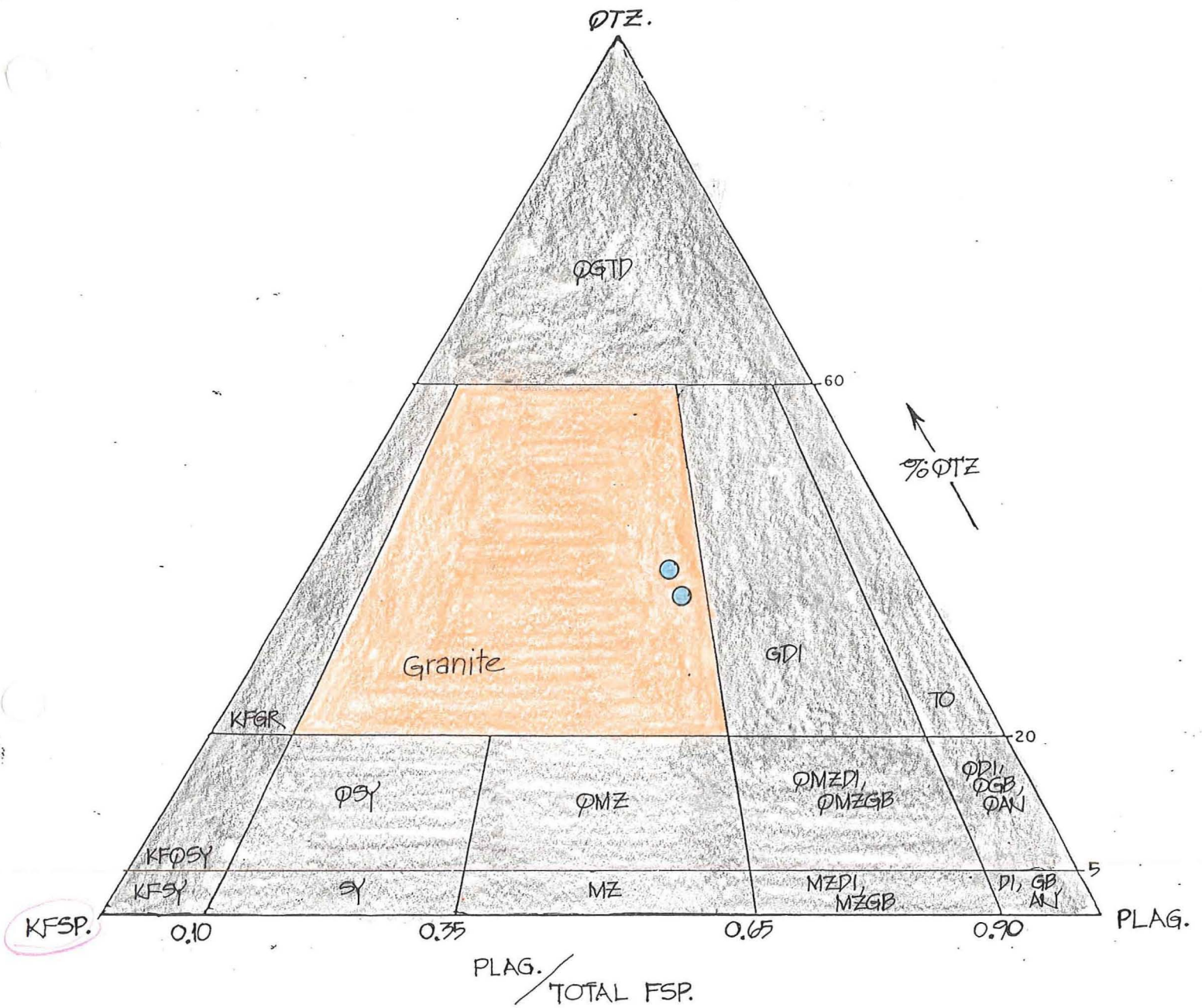
SAMPLE NO.	MINERALOGY, APPROX. WT.% <input type="checkbox"/> (or) RELATIVE ABUNDANCE <input type="checkbox"/>														VEIN FRAGS. "RUTILE"	APATITE	RUST	STEEL	GLASS FRAGMENTS	CEMENT	TOTAL SOLID AMOUNTS						
	QTZ	PL	KF	CAL	OPX	CPAN	ACT	HORN-BLENDE	EP	PR	ILM/MAG	SPH/LEKL.	PY/CPY	TOUR								FeAX	BTE	ALLITE	CHL	TAC	PYROPH
11, 000-20'					4	2	TR			1	2	2	4	(3)	10	8	12			5			5	3	2		10
11, 040-60'					4	1	2	TR		1	2	1	TR	(5)	13	7	11			7			4	2	3		9
11, 100-20'					3	1	2	1		1	3	1	TR	(3)	10	7	9			5			17	3	5		25
11, 140-60'					3	2	1	TR		2	5	2	TR	(3)	11	7	9			6			5	3	5	1	14
11, 200-20'					3	TR	3	(3)	1	1	2	2	TR	(4)	11	6	8			9			4	7	12		26
11, 240-60'					2	TR	2	(1)	TR	1	2	2	TR	(4)	11	5	6			6			2	5	12		10
11, 300-20'					1	-	1	(1)	TR	TR	1	TR	(1)	TR	4	1	2			4		✓	15	5	20		(70) 50
11, 340-60' F?					1	-	1	(1)	TR	1	1	TR	(2)	TR	4	1	2			6		✓	23	3	25		(51)
11, 400-20' F					2	-	1	(1)	-	TR	1	TR	(1)	TR	2	TR	1			3	TR	✓	15	5	7		(27) 50
11, 440-60' F					1	-	1	(2)	-	TR	TR	TR	(1)	TR	3	TR	1			4	✓	TR	6	4	3		13

MM = PREDOMINANT M = MAJOR m = MINOR Tr = TRACE ? = TENTATIVE IDENTIFICATION



SUMMARY OF X-RAY DIFFRACTION ANALYSIS

UNIVERSITY OF UTAH RESEARCH INSTITUTE, EARTH SCIENCE LABORATORY



ANG-1: FELSITE COMPOSITIONS

(2 SAMPLES ONLY)

ANGELI 1
STANDARD SURVEY TABLE

STA	MEAS. DEPTH	VERT. DEPTH	DRIFT		CUMULATIVE COORDINATES	
			***** ANGLE	BEARING	N S(-)	E W(-)
1				S35E		
2	199	199	0.75	S35E	-1.07	0.75
3	386	386	1.75	S53E	-4.00	3.58
4	581	581	3.75	S51E	-9.76	10.95
5	760	759	3.00	S66E	-15.27	19.94
6	856	855	2.50	S71E	-16.96	24.22
7	1013	1012	2.00	S84E	-18.29	30.24
8	1138	1137	1.50	S73E	-19.05	33.98
9	1264	1263	1.50	S62E	-20.31	37.03
10	1375	1374	1.50	N60E	-20.26	39.93
11	1499	1498	2.25	S27E	-21.41	43.82
12	1593	1592	2.25	S38E	-24.53	45.81
13	1654	1653	2.00	S41E	-26.27	47.25
14	1748	1747	1.75	S38E	-28.65	49.20
15	1874	1873	2.00	S30E	-32.06	51.51
16	2059	2057	10.50	S23E	-50.09	60.49
17	2151	2148	2.00	S22E	-59.34	64.33
18	2401	2398	1.75	S14E	-67.12	66.85
19	2623	2620	1.75	S10E	-73.75	68.26
20	2750	2747	1.75	S17E	-77.52	69.17
21	2876	2873	1.75	S23E	-81.14	70.49
22	3003	3000	2.00	S17E	-85.04	71.91
23	3115	3112	1.50	S13W	-88.46	72.03
24	3268	3265	2.00	S39W	-92.66	69.98
25	3489	3485	3.00	S29W	-100.65	64.59
26	3622	3618	3.50	S36W	-107.01	60.54
27	3717	3713	4.00	S32W	-112.16	57.06
28	3717	3713	4.00	S32W	-112.16	57.06
29	3961	3956	5.25	S35W	-128.57	46.20
30	4085	4080	5.25	S37W	-137.75	39.53
31	4241	4235	5.50	S34W	-149.65	31.05
32	4358	4351	6.00	S36W	-159.25	24.32
33	5070	5059	6.00	N42W	-163.14	-50.00
34	5228	5217	6.25	S48W	-162.26	-66.83
35	5432	5419	6.25	S50W	-176.83	-83.59
36	5651	5637	6.25	S67W	-189.29	-103.92
37	6468	6448	7.50	S83W	-214.60	-198.39
38	6708	6686	6.50	S72W	-220.93	-226.94
39	6974	6951	5.75	S83W	-227.07	-254.65
40	7321	7296	5.75	N85W	-227.68	-289.41

JAN 03, 1979

WEIGHTING FACTOR: 0.50

IGELI 1
STANDARD SURVEY TABLE

STA	MEAS. DEPTH	VERT. DEPTH	DRIFT		CUMULATIVE COORDINATES	
			***** ANGLE	BEARING	N S(-)	E W(-)
41	7608	7582	5.75	N77W	-223.18	-317.81
42	8357	8327	5.00	S57W	-235.36	-386.91
43	8477	8447	6.00	S53W	-241.96	-396.33
44	8588	8557	6.00	S53W	-248.94	-405.60
45	8710	8678	7.75	S46W	-258.43	-416.70
46	8791	8759	7.25	S51W	-265.43	-424.62
47	8837	8804	7.75	S53W	-269.13	-429.35
48	8980	8946	7.00	S48W	-280.81	-443.51
49	9060	9025	6.50	S48W	-287.10	-450.50
50	9175	9140	6.25	S38W	-296.44	-459.21
51	9284	9248	7.50	S39W	-306.65	-467.33
52	9416	9379	8.25	S37W	-320.90	-478.47
53	9513	9475	8.50	S35W	-332.33	-486.77
54	9606	9567	8.75	S35W	-343.75	-494.77
55	9706	9665	8.50	S36W	-355.96	-503.48
56	9774	9733	8.25	S36W	-363.98	-509.30
57	9900	9857	8.75	S54W	-377.14	-522.47
58	10007	9963	8.75	S57W	-386.36	-535.88
59	10099	10054	9.25	S56W	-394.31	-547.88
60	10174	10128	9.25	S60W	-400.70	-558.11
61	10256	10209	9.00	S57W	-407.49	-569.20
62	10541	10491	8.00	S57W	-430.43	-604.53
63	10603	10552	7.25	S56W	-434.97	-611.39
64	10659	10608	7.75	S65W	-438.57	-617.75
65	10726	10674	7.00	S63W	-442.34	-625.48
66	10780	10728	7.25	S62W	-445.44	-631.42
67	10849	10796	7.50	S72W	-448.90	-639.57
68	11063	11008	9.00	S74W	-457.87	-668.94
69	11189	11133	6.00	S78W	-461.85	-684.89
70	11252	11196	5.00	S83W	-462.85	-690.85
71	11307	11250	5.75	S72W	-463.96	-695.88
72	11379	11322	5.25	S73W	-466.04	-702.46
73	11440	11383	4.25	S67W	-467.77	-707.21

JAN 03, 1979

WEIGHTING FACTOR: 0.50

WELL: BIA 2 OH
 LOCATION: 1797614E 410352N
 SURFACE ELEVATION: 2322.
 CASING SHOE: 6155.
 FLOWRATE (KLBS/HR): 0.

COMMENTS: DRY HOLE-NEVER TESTED. FORMER NAME B&R UNIT.

M.D.	T.V.D	N(-S)	E(-W)	COMP. INC
0.	0.	0.	0.	0.
200.	200.	1.	1.	-100.
400.	400.	1.	3.	-100.
600.	600.	2.	4.	-100.
800.	800.	4.	6.	-100.
1000.	1000.	5.	7.	-100.
1048.	1048.	5.	8.	0.
1200.	1200.	9.	10.	-100.
1400.	1400.	13.	13.	-100.
1600.	1600.	15.	14.	-100.
1800.	1800.	16.	15.	-100.
2000.	2000.	15.	15.	-100.
2065.	2065.	15.	15.	0.
2200.	2200.	12.	16.	-100.
2400.	2399.	8.	16.	-100.
2600.	2599.	3.	14.	-100.
2800.	2798.	-3.	9.	-100.
2990.	2988.	-9.	2.	0.
3000.	2992.	-9.	2.	-100.
3200.	3191.	-18.	-12.	-100.
3400.	3391.	-27.	-26.	-100.
3600.	3590.	-35.	-40.	-100.
3800.	3789.	-43.	-54.	-100.
4000.	3989.	-51.	-68.	-100.
4007.	4002.	-52.	-69.	0.
4200.	4194.	-61.	-85.	-100.
4400.	4394.	-69.	-100.	-100.
4600.	4593.	-76.	-115.	-100.
4800.	4792.	-83.	-129.	-100.
5000.	4992.	-88.	-141.	-100.
5025.	5017.	-89.	-143.	0.
5200.	5192.	-85.	-151.	-100.
5400.	5392.	-83.	-161.	-100.
5600.	5591.	-85.	-170.	-100.
5800.	5791.	-89.	-180.	-100.
6000.	5990.	-96.	-191.	-100.
6042.	6032.	-98.	-193.	0.
6155.	6145.	-104.	-198.	-10.
6200.	6190.	-106.	-200.	-100.
6400.	6390.	-119.	-211.	-100.
6600.	6589.	-135.	-222.	-100.
6800.	6787.	-154.	-234.	-100.
6934.	6920.	-169.	-243.	0.
7000.	6985.	-180.	-249.	-100.
7200.	7181.	-212.	-268.	-100.
7400.	7377.	-244.	-285.	-100.
7600.	7574.	-276.	-301.	-100.
7800.	7771.	-308.	-316.	-100.
8000.	7968.	-340.	-329.	-100.
8050.	8017.	-348.	-332.	0.
8200.	8167.	-371.	-339.	-100.
8400.	8365.	-402.	-348.	-100.
8600.	8563.	-433.	-357.	-100.
8800.	8759.	-465.	-365.	-100.
9000.	8955.	-497.	-374.	-100.
9002.	8957.	-497.	-374.	0.
9200.	9150.	-529.	-382.	-100.
9400.	9344.	-561.	-391.	-100.
9600.	9536.	-594.	-399.	-100.
9800.	9728.	-627.	-407.	-100.
10000.	9919.	-660.	-415.	-100.
10005.	9924.	-661.	-415.	0.

OPEN HOLE DESCRIPTION

SIZE (IN)	**** INTERVAL ****	*****
	TOP	BOTTOM
8.75	6155.	9367.
8.50	9367.	10005.

WELL: BIA 2
 LOCATION: 1797614E 410352N
 SURFACE ELEVATION: 2322.
 CASING SHOE: 6155.
 FLOWRATE (KLBS/HR): 0.

COMMENTS: PLUGGED ORIGINAL HOLE AND KICKED OFF NEW HOLE AT 6248'.USED AS
 DISPOSAL WELL. FORMER NAME B&R UNIT RD1.

M.D.	T.V.D	N(-S)	E(-W)	COMP. INC
0.	0.	0.	0.	0.
200.	200.	1.	1.	-100.
400.	400.	1.	3.	-100.
600.	600.	2.	4.	-100.
800.	800.	4.	6.	-100.
1000.	1000.	5.	7.	-100.
1048.	1048.	5.	8.	0.
1200.	1200.	9.	10.	-100.
1400.	1400.	13.	13.	-100.
1600.	1600.	15.	14.	-100.
1800.	1800.	16.	15.	-100.
2000.	2000.	15.	15.	-100.
2065.	2065.	15.	15.	0.
2200.	2200.	12.	16.	-100.
2400.	2399.	8.	16.	-100.
2600.	2599.	3.	14.	-100.
2800.	2798.	-3.	9.	-100.
2990.	2988.	-9.	2.	0.
3000.	2992.	-9.	2.	-100.
3200.	3191.	-18.	-12.	-100.
3400.	3391.	-27.	-26.	-100.
3600.	3590.	-35.	-40.	-100.
3800.	3789.	-43.	-54.	-100.
4000.	3989.	-51.	-68.	-100.
4007.	4002.	-52.	-69.	0.
4200.	4194.	-61.	-85.	-100.
4400.	4394.	-69.	-100.	-100.
4600.	4593.	-76.	-115.	-100.
4800.	4792.	-83.	-129.	-100.
5000.	4992.	-88.	-141.	-100.
5025.	5017.	-89.	-143.	0.
5200.	5191.	-86.	-151.	-100.
5400.	5391.	-85.	-161.	-100.
5600.	5590.	-86.	-171.	-100.
5800.	5790.	-90.	-181.	-100.
6000.	5990.	-97.	-191.	-100.
6042.	6032.	-98.	-193.	0.
6155.	6145.	-103.	-199.	-10.
6157.	6147.	-103.	-199.	0.
6200.	6190.	-106.	-200.	-100.
6400.	6390.	-111.	-197.	-100.
6513.	6502.	-108.	-189.	0.
6600.	6589.	-100.	-175.	-100.
6800.	6784.	-75.	-138.	-100.
7000.	6976.	-41.	-94.	-100.
7018.	6993.	-38.	-90.	0.
7200.	7157.	18.	-34.	-100.
7400.	7336.	79.	28.	-100.
7600.	7516.	140.	92.	-100.
7619.	7533.	145.	98.	40.
7800.	7695.	200.	157.	-100.
8000.	7873.	260.	223.	-100.
8029.	7899.	269.	233.	0.
8200.	8050.	322.	293.	-100.
8310.	8148.	355.	331.	1.
8400.	8228.	382.	363.	-100.
8600.	8405.	442.	433.	-100.
8800.	8583.	500.	504.	-100.
9000.	8761.	558.	576.	-100.
9068.	8821.	577.	600.	0.
9200.	8938.	614.	647.	-100.
9400.	9116.	669.	720.	-100.
9600.	9295.	723.	793.	-100.
9800.	9473.	777.	866.	-100.
9920.	9580.	808.	910.	0.

OPEN HOLE DESCRIPTION

 SIZE (IN) TOP INTERVAL BOTTOM
 8.75 6155. 9920.

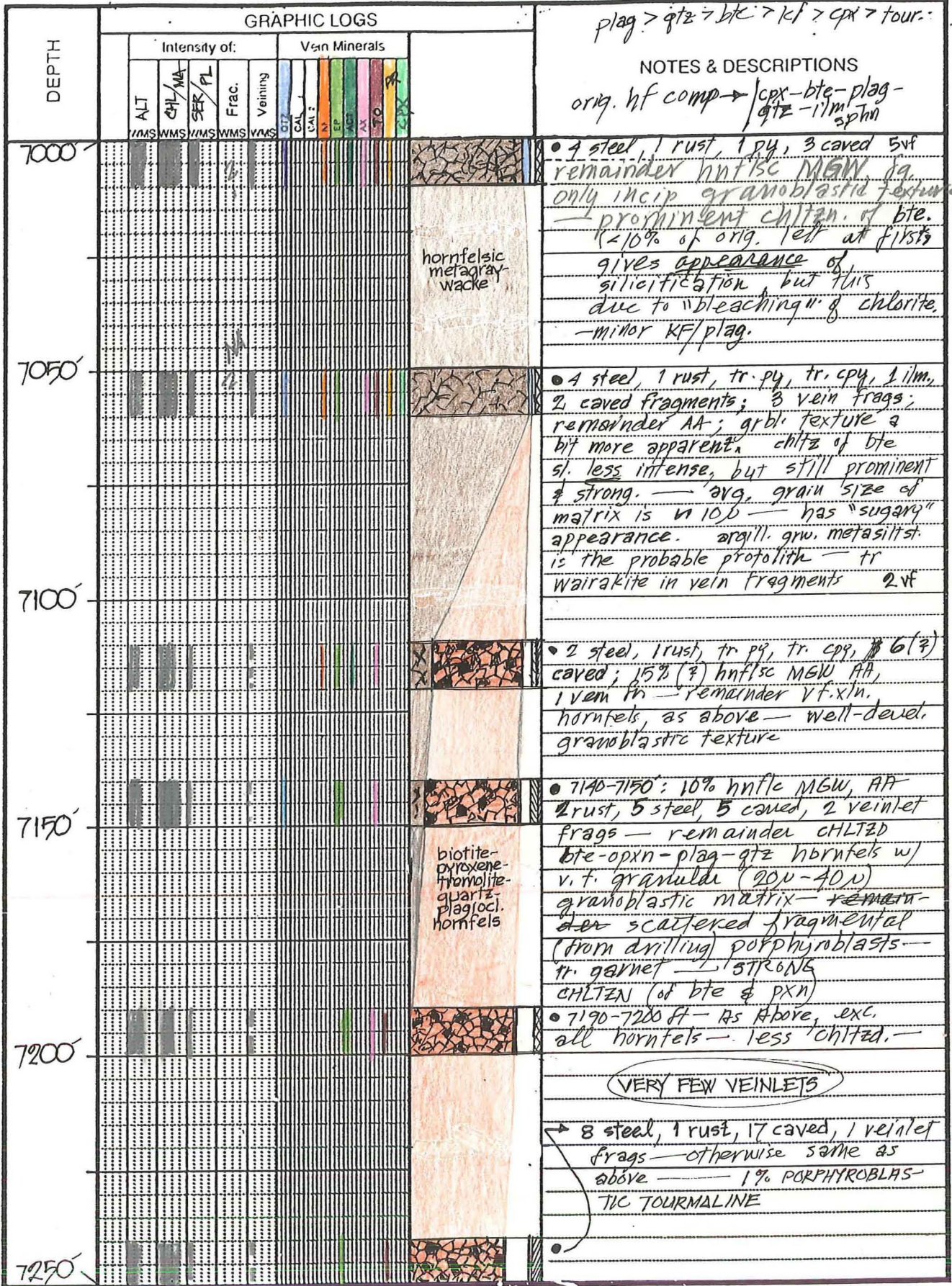
WELL: BIA 3
 LOCATION: 1794042E 405884N
 SURFACE ELEVATION: 2534.
 CASING SHOE: 4007.
 FLOWRATE (KLBS/HR): 146.

COMMENTS:

M.D.	T.V.D	N(-S)	E(-W)	COMP. INC
0.	0.	0.	0.	0.
200.	200.	29.	1.	-100.
400.	400.	53.	3.	-100.
600.	599.	70.	5.	-100.
800.	799.	81.	6.	-100.
1000.	999.	87.	8.	-100.
1035.	1034.	87.	9.	0.
1200.	1199.	73.	8.	-100.
1400.	1399.	58.	8.	-100.
1600.	1599.	44.	10.	-100.
1800.	1799.	31.	14.	-100.
2000.	1999.	20.	19.	-100.
2066.	2065.	17.	21.	0.
2200.	2201.	-4.	21.	-100.
2400.	2403.	-25.	26.	-100.
2600.	2602.	-33.	35.	-100.
2800.	2800.	-29.	49.	-100.
3000.	2996.	-11.	68.	-100.
3004.	3000.	-11.	68.	0.
3200.	3256.	35.	97.	-100.
3400.	3473.	87.	128.	-100.
3600.	3657.	146.	163.	-100.
3800.	3815.	212.	199.	-100.
4000.	3951.	284.	238.	-100.
4007.	3955.	287.	240.	0.
4007.	3955.	287.	240.	-10.
4066.	3991.	310.	252.	0.
4200.	4111.	368.	280.	-100.
4400.	4286.	458.	324.	-100.
4600.	4454.	554.	372.	-100.
4679.	4519.	593.	392.	-3.
4745.	4573.	626.	409.	-3.
4800.	4617.	654.	424.	-100.
5000.	4774.	761.	479.	-100.
5003.	4776.	762.	480.	0.
5200.	4919.	883.	543.	-100.
5400.	5062.	1007.	608.	-100.
5600.	5203.	1131.	675.	-100.
5800.	5342.	1256.	744.	-100.
6000.	5480.	1382.	816.	-100.
6032.	5502.	1402.	827.	0.
6200.	5612.	1512.	890.	-100.
6400.	5744.	1642.	966.	-100.
6600.	5876.	1770.	1044.	-100.
6800.	6009.	1897.	1123.	-100.
7000.	6142.	2022.	1203.	-100.
7007.	6147.	2027.	1206.	0.
7200.	6283.	2143.	1281.	-100.
7400.	6421.	2264.	1361.	-100.
7600.	6556.	2384.	1445.	-100.
7800.	6689.	2505.	1532.	-100.
8000.	6820.	2626.	1622.	-100.
8089.	6877.	2680.	1663.	0.
8171.	6926.	2734.	1703.	10.
8200.	6943.	2752.	1717.	-100.
8400.	7063.	2879.	1815.	-100.
8600.	7184.	3002.	1915.	-100.
8800.	7308.	3120.	2018.	-100.
8860.	7345.	3155.	2049.	10.
8875.	7354.	3164.	2057.	10.
8890.	7364.	3173.	2065.	5.
8898.	7369.	3177.	2069.	5.
9000.	7433.	3235.	2123.	-100.
9053.	7466.	3265.	2151.	0.
9200.	7559.	3347.	2230.	-100.
9326.	7640.	3415.	2299.	32.
9385.	7678.	3446.	2331.	0.

OPEN HOLE DESCRIPTION

SIZE (IN) 8.75
 TOP 4007.
 BOTTOM 9385.



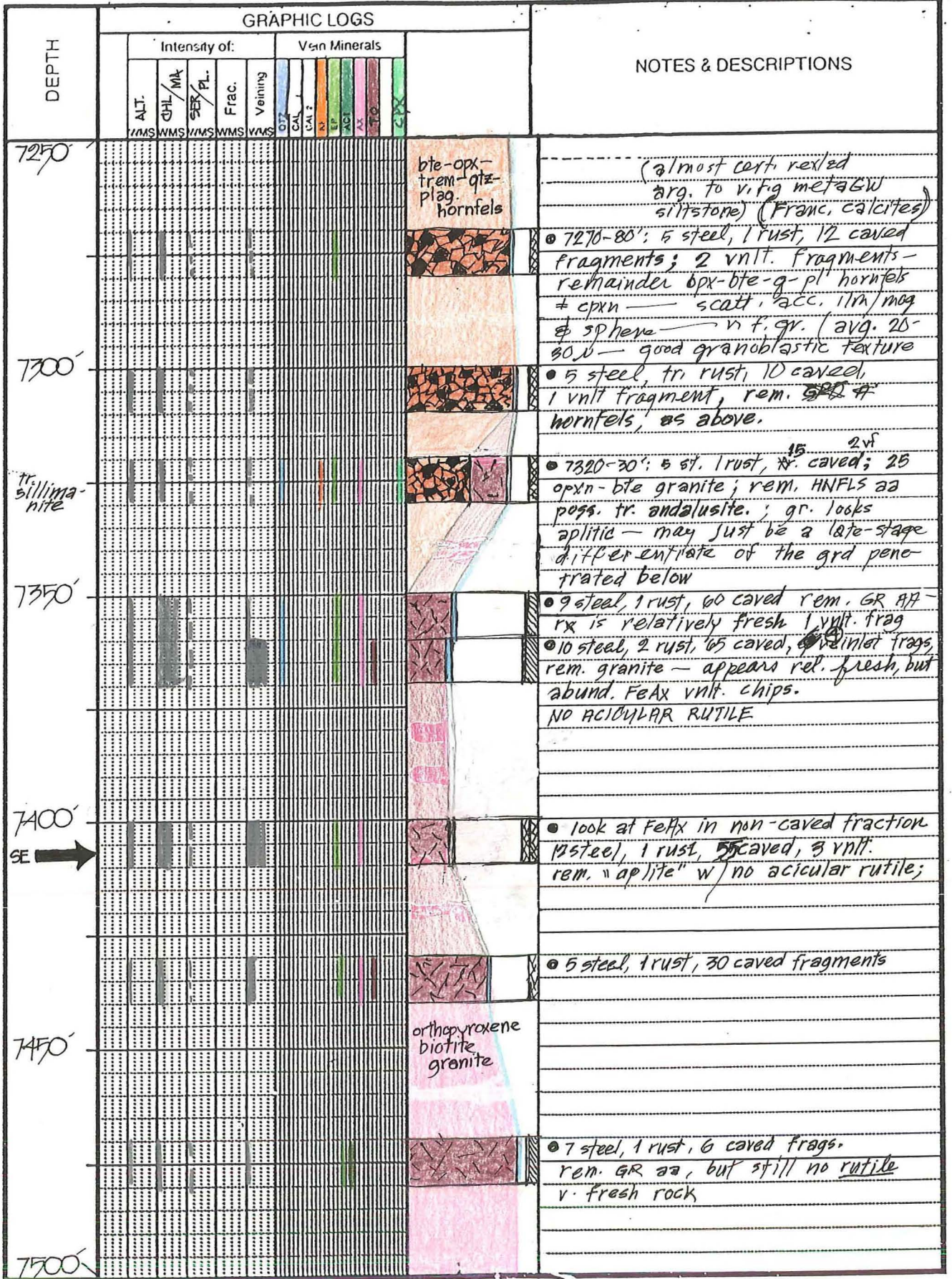
some 1gr. pcs. appear to contain porphyroblastic tourmaline.

Borehole No. C11-RD2

Depth Interval 7000-7250 ft

Logged By JH

Date _____

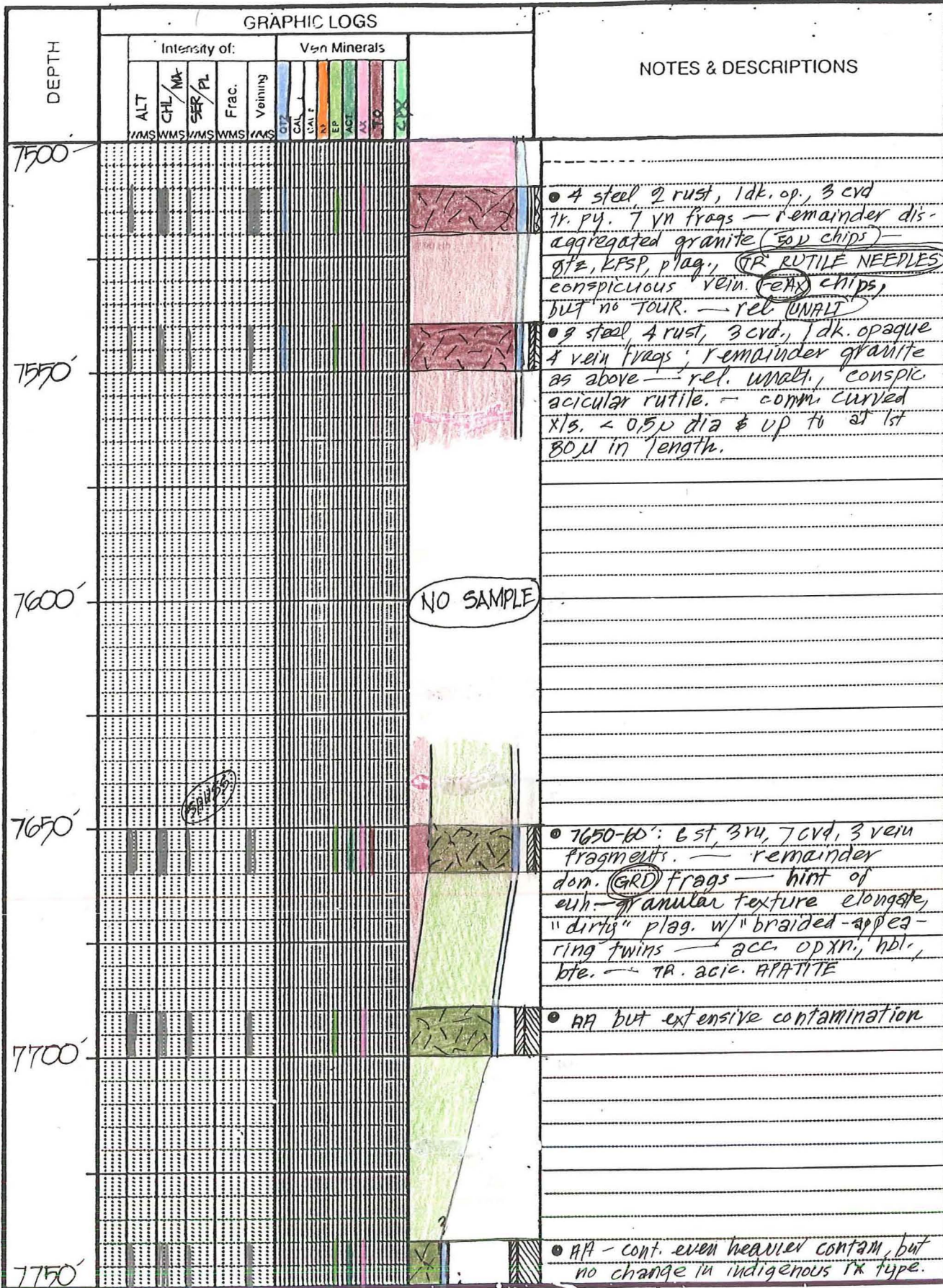


Borehole No. 411 RD2

Depth Interval _____

Logged By JH

Date _____



tr. vn chl, too

50v

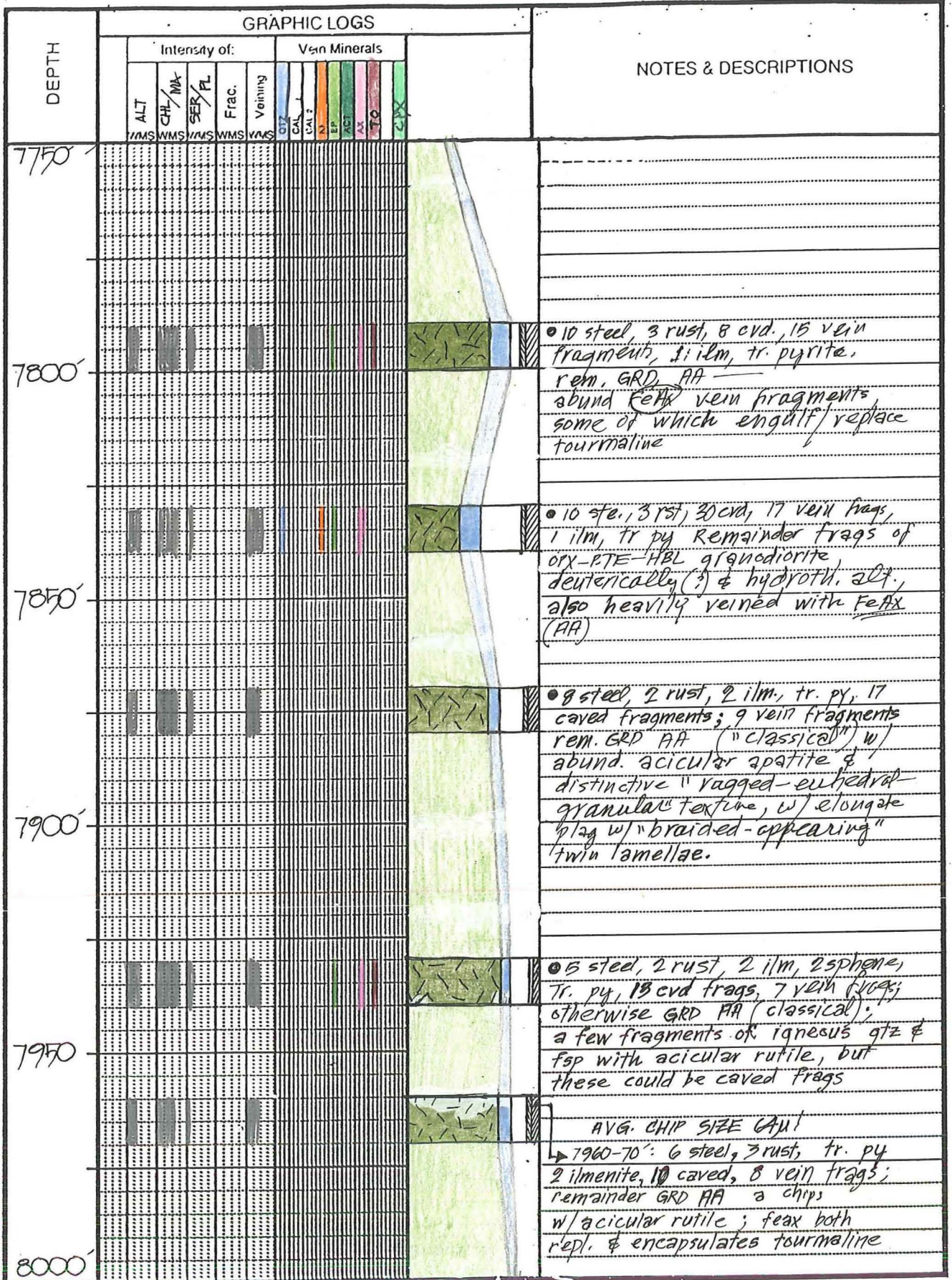
SP 355

Borehole No. 411-RD2

Depth Interval _____

Logged By JH

Date _____



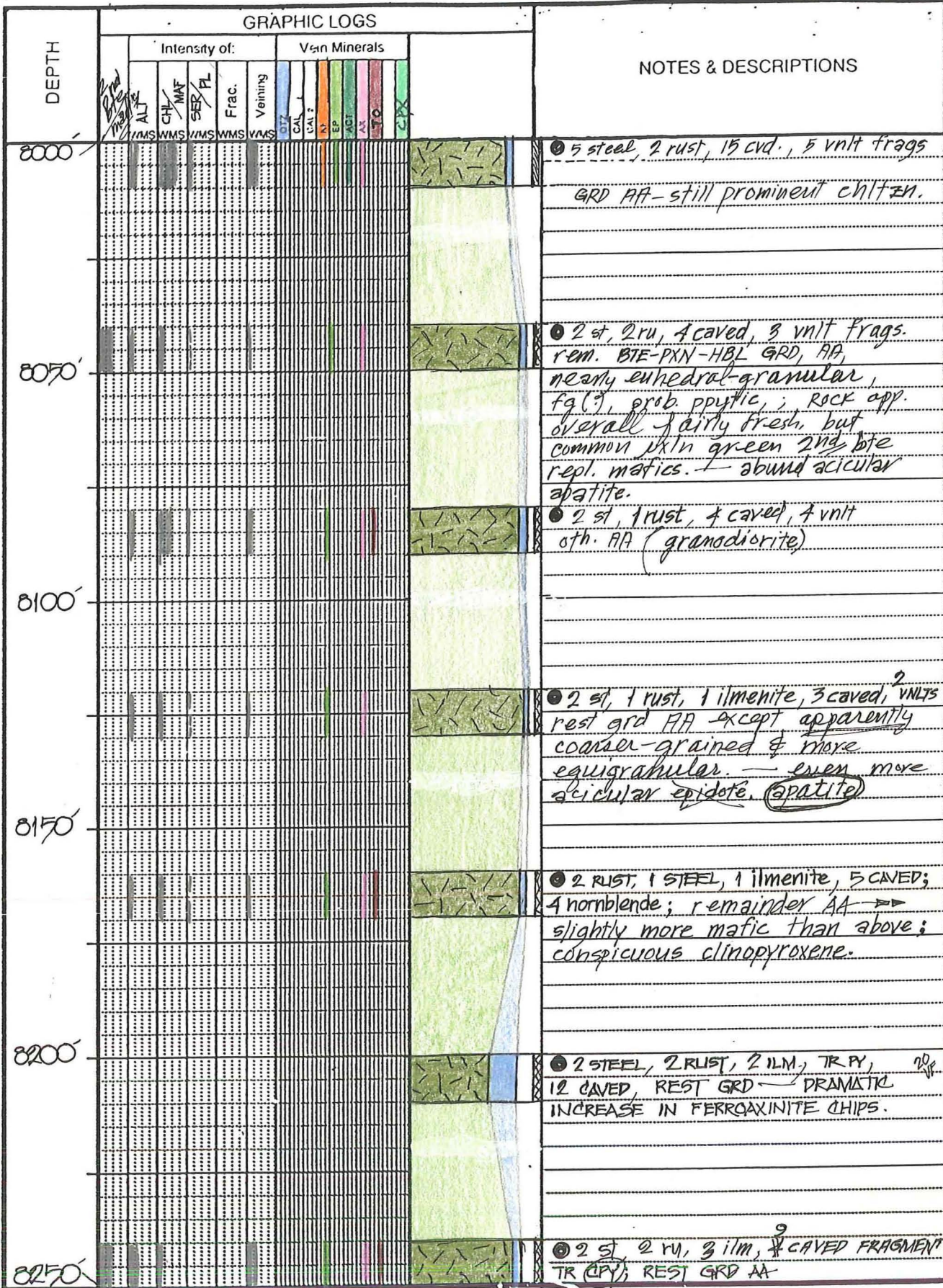
Borehole No. 111-RD2

D. 1-30

Logged By JH

Depth Interval _____

Date _____



Borehole No. C11-RD2

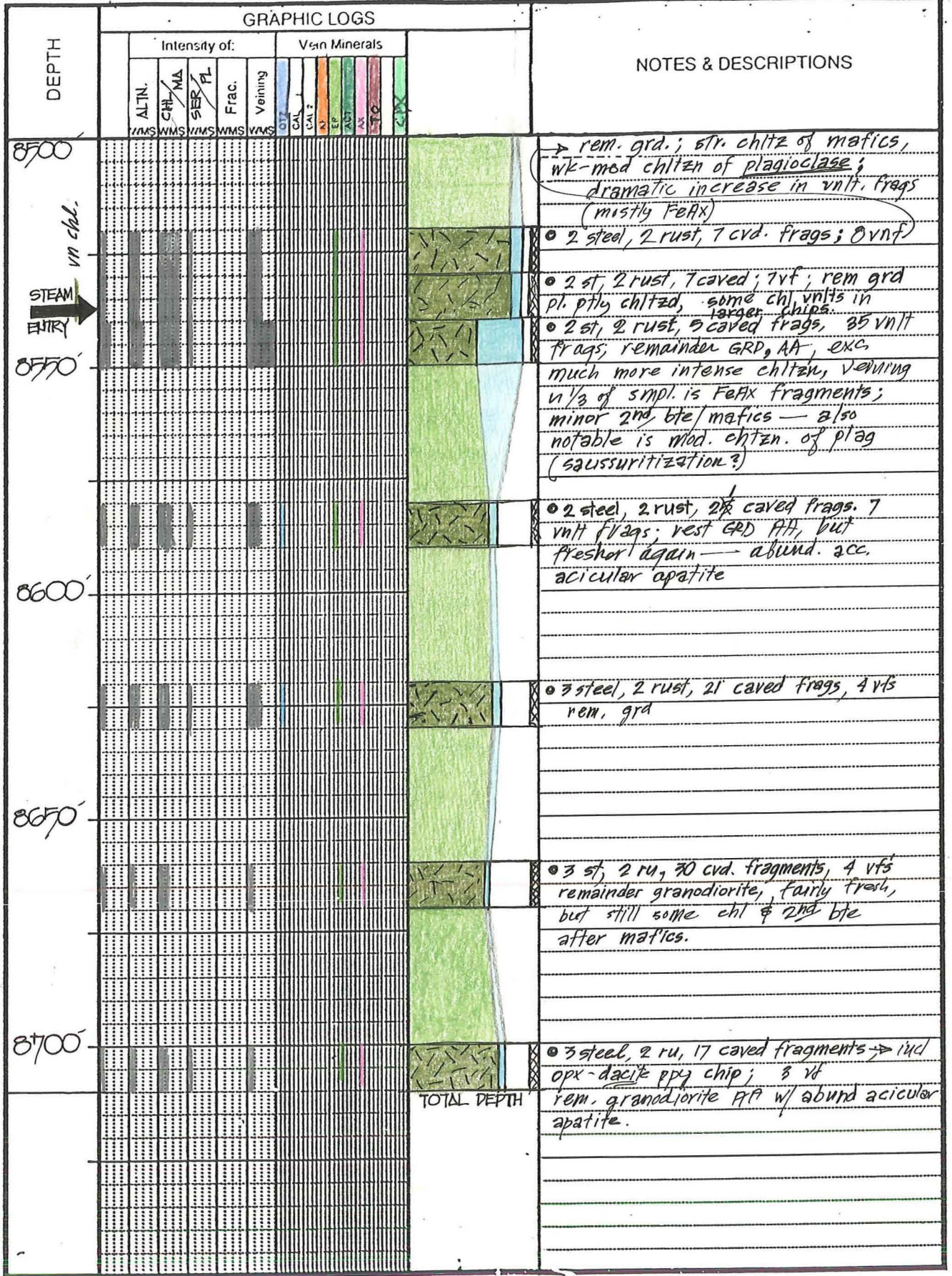
Depth Interval _____

Logged By JH

Date _____

VWk
W
M
S
VS

22
2-5
5-10
10-20
720



Borehole No. C11-RD2

Depth Interval 8500-8710

Logged By JH

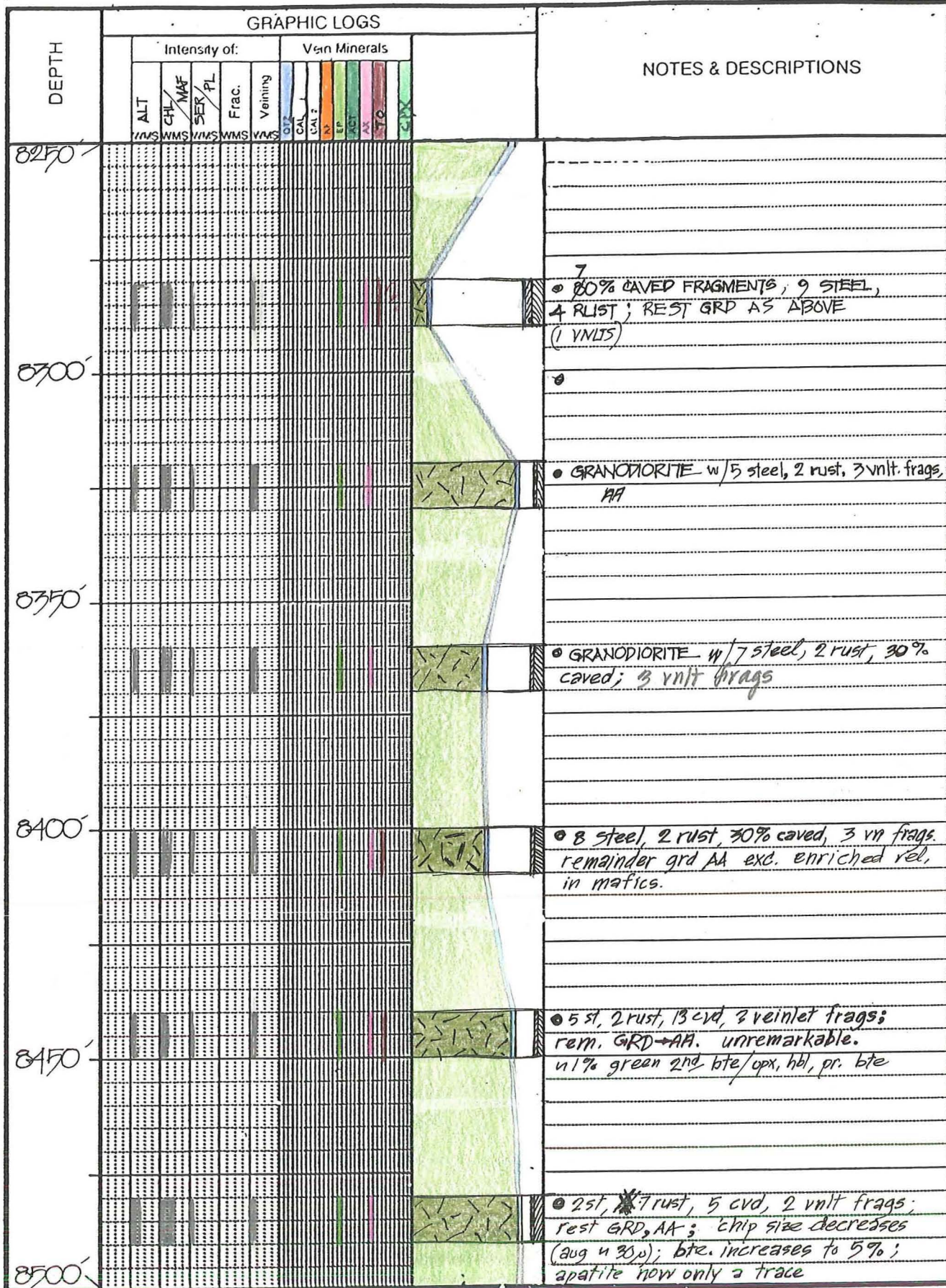
Date _____

SAMPLE NO.	APPROX. WT. % *															other	TOTAL VEINLET FRAGMENTS								
	QUARTZ	PLAGIOCL.	K-FELDSP.	CALCITE	OPAX	ACTINOLITE	HBL.	EPIDOTE	PREHNITE	ALMENDITE	MAGNETITE	SPHENE FOR LEUCOM.	LEUCOM.	PHYRITE	TOURMALINE			FERROXALINE	BIOTITE	ILLITE	CHLORITE	TALC	PYROPH.	SERPENTINE	TREMOLITE
7000-10'					3	1	2	1	1	3	1		3	1	2	4	18								5
7050-60'					5	1	1	1	1	3	TR		2	1	4	5	16								3
7110-20'					10	2	1	1	1	4	TR		-	TR	4	4	12				6			Tr. vein wair.	2
7140-50'					15	3	1	-	2	3	TR		-	TR	7	8	19				3				2
7190-7200'					20	6	TR	TR	1	4	TR		TR	TR	9	8	14				7				2
7240-50'					23	3	(1)	-	(1)	(4)	TR	TR	TR	TR	(11)	(7)	(18)				(7)				(1)
7270-80'					23	4	TR	TR	1	4	1		-	-	9	6	7				6				2
7300-10'					29	5	TR	TR	1	4	1		-	-	9	5	6				8				2
7320-30'					20	4	TR	TR	1	4	TR		-	TR	7	4	5				6				2
7340-50'					(1)	TR	(1)	TR	(1)	TR	TR		-	TR	(2)	(TR)	(1)				-				(3)
7360-70'					(1)	TR	(2)	(1)	(1)	TR	-	(2)	(17)	(2)	(1)	(1)					-				(21)
7400-10'					(1)	TR	(2)	(1)	(1)	TR	TR		-	(9)	(2)	TR	(1)				-				(11)
7430-40'					(1)	TR	(2)	TR	(1)	TR	TR		-	(3)	(1)	TR	(2)								(5)
7470-80'					1	TR	TR	-	TR	1	TR	TR	TR	TR	-	TR	TR								(2)
7510-20'					1	TR	1	-	TR	TR	TR		-	8	TR	TR	TR								(9)
7540-50'					TR	TR	1		TR	TR	TR	TR	TR	3	TR	1	TR								4
7650-60'					2	2	1		1	1	-	5	1	TR	1	TR								HORNBLLENDE APPEARS	4
7690-7700'					3	2	3		1	1	-	1	4	3	TR	1									8
7740-50'					(2)	(1)	TR		(3)	(2)	TR	(4)	(2)	(4)	(1)	(4)									7
7790-7800'					1	1	1	1	3	1	TR	4	16	2	1	5									21
7830-40'					(2)	TR	(3)	(4)	(3)	1	-	(5)	(16)	(2)	TR	(7)									(25)
7870-80'					(3)	(3)	(4)	(3)	(3)	(2)	TR	(1)	(10)	(2)	TR	(4)									(15)
7920-80'					1	1	2	3	2	1	TR	TR	6	1	TR	4									



SUMMARY OF X-RAY DIFFRACTION ANALYSIS
 UNIVERSITY OF UTAH RESEARCH INSTITUTE, EARTH SCIENCE LABORATORY

() = contaminants
 > 25% - ∴
 recal.
 mineral %
 quite approx.



Borehole No. C11-RD2

Depth Interval _____

Logged By JH

Date _____

Tr. CPU

DEPTH	GRAPHIC LOGS														Lithology	NOTES & DESCRIPTIONS		
	Intensity of:						Vein Minerals											
	Altn.	Kfsp Plag	Ser Plag	Chi. Plag	Chi. Mat.	WMS	A	B	C	D	E	F	G	H			I	J
							QTZ 1	QTZ 2	CAL 1	CAL 2	RFSP	EP	ACT	CPX			AX	TO
8000																		
8200'																		
8400'																		
SE →																		
8600'																		
8710'																		

A B C D E F G H I J

Borehole No. C11-RD2 (Calpine) ^{NCPA} Location SOUTH GEYSERS Logged By J. HULEN
 Depth Interval 8000-8710 ft Date 1993
2438.2-2654.7 m

DRD INC.
Survey Report

Date: 01/13/1994

Time: 09:28

Page: 1

Problem:
Description:
Location:
Well Number:

C-11RD2

SURFACE LOCATION

Surface Location

Slot
N+/-S 0.0 ft
E+/-W 0.0 ft
Latitude 0.000000 deg N
Longitude 0.000000 deg E

LAMBERT X 1793498.0 ft
LAMBERT Y 398911.0 ft
FNL 0.0 ft
FEL 0.0 ft

Location OFFSHORE
RKB Wellhead 0.0 ft
RKB MGL 0.0 ft
RKB MSL 0.0 ft
Water Depth 0.0 ft
RKB Mudline 0.0 ft

SURVEY (REFERENCED TO UTM-LAMBERT COORDINATES)

SURFACE ELEV, AND ELEV OF ALL DEPDLS

PLANNED AZIMUTH			N55.00W			LAT+8 FEET				DLS	BUILD	WALK
MD	INCL	DIREC	TVD	VERT SECT	CLOS DIST	CLOS DIREC	+N / -S	+E / -W	d/100ft	d/100ft	d/100ft	
ft	deg	quad	ft	ft	ft	quad	ft	ft				
0.0	0.00	N 0.00E	-3067.0	0.0	0.0	N 0.00E	398911.0	1793498.0	0.00	0.00	0.00	
209.0	0.75	S62.00W	-2858.0	1.1	1.1	N59.00W	398911.6	1793497.0	0.36	0.36	-56.46	
366.0	1.25	S73.00W	-2701.0	2.6	3.5	S82.51W	398910.5	1793494.5	0.34	0.32	7.01	
397.0	1.75	S61.00W	-2670.0	3.0	4.3	S79.64W	398910.2	1793493.7	1.90	1.61	-38.71	
459.0	3.00	S52.00W	-2608.1	4.0	6.8	S71.05W	398908.8	1793491.6	2.10	2.02	-14.52	
521.0	3.75	S34.00W	-2546.2	4.5	10.1	S61.32W	398906.2	1793489.1	2.08	1.21	-29.03	
602.0	5.25	S40.00W	-2465.5	4.7	16.1	S51.97W	398901.1	1793485.2	1.94	1.85	7.41	
696.0	6.00	S47.00W	-2371.9	6.1	25.3	S48.89W	398894.4	1793479.0	1.08	0.80	7.45	
790.0	7.50	S49.00W	-2278.6	8.5	36.3	S48.62W	398887.0	1793470.7	1.62	1.60	2.13	
884.0	9.75	S51.00W	-2185.6	12.2	50.4	S49.01W	398877.9	1793460.0	2.41	2.39	2.13	
962.0	10.00	S47.00W	-2108.8	15.4	63.8	S49.01W	398869.2	1793449.9	0.94	0.32	-5.13	
1026.0	9.50	S31.00W	-2045.7	16.2	74.4	S47.56W	398860.8	1793443.1	4.29	-0.78	-25.00	
1055.0	9.75	S31.00W	-2017.1	15.8	79.1	S46.56W	398856.6	1793440.6	0.86	0.86	0.00	
1084.0	9.25	S16.00W	-1988.5	14.9	83.5	S45.28W	398852.2	1793438.6	8.68	-1.72	-51.72	
1191.0	7.00	S11.00W	-1882.6	9.4	96.7	S40.55W	398837.5	1793435.1	2.20	-2.10	-4.67	
361.0	6.25	S 1.00W	-1713.7	-0.1	113.4	S34.93W	398818.1	1793433.1	0.81	-0.44	-5.88	
1503.0	6.00	S 3.00W	-1572.5	-8.4	126.3	S31.19W	398802.9	1793432.6	0.23	-0.18	1.41	
1550.0	6.00	S 3.00W	-1525.8	-11.0	130.7	S30.17W	398798.0	1793432.2	0.00	0.00	0.00	
1612.0	4.00	S24.00W	-1464.0	-13.0	135.9	S29.52W	398792.8	1793431.0	4.32	-3.23	33.87	
1691.0	3.25	S49.00W	-1385.2	-12.8	140.8	S29.77W	398788.8	1793428.1	2.19	-0.95	31.65	
1846.0	3.75	S47.00W	-1230.5	-10.7	149.8	S30.90W	398782.5	1793421.1	0.33	0.32	-1.29	
2003.0	4.25	S47.00W	-1073.9	-8.4	160.3	S31.99W	398775.0	1793413.1	0.32	0.32	0.00	
2160.0	4.25	S51.00W	-917.3	-5.6	171.5	S33.12W	398767.4	1793404.2	0.19	0.00	2.55	
2316.0	3.50	S49.00W	-761.7	-2.9	181.6	S34.09W	398760.6	1793396.2	0.49	-0.48	-1.28	
2472.0	4.00	S56.00W	-606.0	0.2	191.3	S35.05W	398754.4	1793388.1	0.43	0.32	4.49	
2629.0	3.25	S49.00W	-449.3	3.2	200.8	S35.90W	398748.3	1793380.2	0.55	-0.48	-4.46	
2784.0	3.00	S43.00W	-294.5	4.8	209.1	S36.31W	398742.5	1793374.1	0.27	-0.16	-3.87	
2941.0	3.00	S51.00W	-137.8	6.5	217.2	S36.71W	398736.9	1793368.1	0.27	0.00	5.10	
3099.0	2.75	S56.00W	20.0	9.0	224.8	S37.29W	398732.2	1793361.7	0.22	-0.16	3.16	
3255.0	2.75	S48.00W	175.9	11.2	232.0	S37.76W	398727.6	1793355.9	0.25	0.00	-5.13	
3412.0	2.50	S40.00W	332.7	12.3	239.2	S37.95W	398722.4	1793350.9	0.28	-0.16	-5.10	
3569.0	2.00	S73.00W	489.6	14.5	244.9	S38.40W	398719.0	1793345.9	0.87	-0.32	21.02	
3725.0	2.00	S66.00W	645.5	17.6	249.6	S39.05W	398717.1	1793340.7	0.16	0.00	-4.49	
3882.0	1.50	S89.00W	802.4	20.8	253.4	S39.72W	398716.1	1793336.1	0.54	-0.32	14.65	
4039.0	1.50	S67.00W	959.4	23.6	256.6	S40.28W	398715.2	1793332.1	0.36	0.00	-14.01	
4196.0	1.00	S87.00W	1116.3	25.9	259.3	S40.73W	398714.5	1793328.7	0.42	-0.32	12.74	
4351.0	1.00	N59.00W	1271.3	28.4	260.5	S41.26W	398715.1	1793326.2	0.38	0.00	21.94	
4508.0	1.50	N58.00W	1428.3	31.8	261.1	S42.00W	398716.9	1793323.2	0.32	0.32	0.64	
4663.0	1.50	N24.00W	1583.2	35.7	260.7	S42.87W	398719.9	1793320.6	0.57	0.00	21.94	
4819.0	1.50	N13.00W	1739.1	39.0	258.7	S43.66W	398723.8	1793319.4	0.18	0.00	7.05	
4976.0	1.25	N22.00E	1896.1	40.8	255.9	S44.19W	398727.5	1793319.6	0.55	-0.16	22.29	
5132.0	1.50	N43.00E	2052.1	41.0	252.2	S44.36W	398730.7	1793321.6	0.36	0.16	13.46	
5289.0	2.25	N21.00E	2209.0	41.3	247.3	S44.61W	398735.0	1793324.4	0.65	0.48	-14.01	
5446.0	2.75	N23.00E	2365.8	42.8	240.9	S45.24W	398741.3	1793326.9	0.32	0.32	1.27	
5603.0	2.25	N47.00E	2522.7	42.8	234.3	S45.53W	398746.9	1793330.9	0.73	-0.32	15.29	
5759.0	2.00	N49.00E	2678.6	41.5	228.5	S45.47W	398750.8	1793335.1	0.17	-0.16	1.28	
5914.0	3.00	N61.00E	2833.4	39.2	221.8	S45.18W	398754.6	1793340.6	0.72	0.65	7.74	
6070.0	3.25	N51.00E	2989.2	36.2	213.5	S44.75W	398759.4	1793347.7	0.38	0.16	-6.41	
6226.0	3.50	N48.00E	3144.9	33.9	204.3	S44.54W	398765.3	1793354.6	0.20	0.16	-1.92	
6382.0	3.50	N52.00E	3300.6	31.4	194.9	S44.27W	398771.5	1793362.0	0.16	0.00	2.56	
6537.0	3.50	N52.00E	3455.3	28.6	185.5	S43.88W	398777.3	1793369.4	0.00	0.00	0.00	
6694.0	3.25	N59.00E	3612.1	25.4	176.5	S43.28W	398782.5	1793377.0	0.31	-0.16	4.46	
6850.0	3.00	N54.00E	3767.8	22.3	168.2	S42.61W	398787.2	1793384.1	0.24	-0.16	-3.21	
7008.0	3.25	N46.00E	3925.6	20.1	159.7	S42.22W	398792.7	1793390.7	0.32	0.16	-5.06	
7166.0	3.75	N38.00E	4083.3	18.9	150.0	S42.23W	398799.9	1793397.1	0.44	0.32	-5.06	

DRD INC.
Survey Report

Problem:
Description:
Location:
Well Number:

C-11RD2

Date: 01/13/1994

Time: 09:28

Page: 2

SURVEY (REFERENCED TO UTM-LAMBERT COORDINATES)
PLANNED AZIMUTH N55.00W

ELEV. (WITH SIGNS REVERSED)

MD	INCL	DIREC	TVD	VERT SECT	CLOS DIST	CLOS DIREC	+N / -S	+E / -W	DLS	BUILD	WALK
ft	deg	quad	ft	ft	ft	quad	ft	ft	d/100ft	d/100ft	d/100ft
7322.0	4.25	N33.00E	4238.9	18.8	139.2	S42.75W	398808.8	1793403.5	0.39	0.32	-3.21
7477.0	5.00	N41.00E	4393.4	18.3	126.8	S43.32W	398818.7	1793411.0	0.64	0.48	5.16
7637.0	8.25	N30.00E	4552.3	18.2	108.6	S44.64W	398833.7	1793421.7	2.17	2.03	-6.87
7668.0	8.50	N27.00E	4583.0	18.7	104.2	S45.33W	398837.7	1793423.9	1.62	0.81	-9.68
7730.0	8.00	N23.00E	4644.3	20.2	96.0	S47.18W	398845.8	1793427.6	1.23	-0.81	-6.45
7852.0	8.00	N25.00E	4765.2	23.5	80.6	S51.93W	398861.3	1793434.5	0.23	0.00	1.64
7942.0	9.75	N37.00E	4854.1	24.4	67.9	S56.12W	398873.2	1793441.6	2.82	1.94	13.33
8087.0	12.00	N23.00E	4996.5	26.8	45.0	S71.60W	398896.8	1793455.2	2.38	1.55	-9.66
8241.0	13.75	N20.00E	5146.6	34.8	34.9	N59.53W	398928.7	1793467.9	1.22	1.14	-1.95
8368.0	14.75	N20.00E	5269.7	42.9	50.9	N22.42W	398958.1	1793478.6	0.79	0.79	0.00
8530.0	14.00	N25.00E	5426.6	51.6	84.3	N 2.75W	398995.2	1793494.0	0.89	-0.46	3.09
8653.0	12.50	N22.00E	5546.3	57.3	110.3	N 3.74E	399021.1	1793505.2	1.34	-1.22	-2.44
8710.0	12.50	N22.00E	5602.0	60.0	122.1	N 5.55E	399032.5	1793509.9	0.00	0.00	0.00

POINTS OF INTEREST

DESCRIPTION	MD	INCL	DIREC	TVD	+N / -S	+E / -W	CLOS DIST
	ft	deg	quad	ft	ft	ft	ft
FELSITE	7350.0	4.39	N34.45E	-4266.8	398810.5	1793404.6	137.1

ELEV.

THIS IS REALLY ELEVATION (W/WRONG SIGN) NOT TVD.

*TVD IS 4266.8
+ 3067. SURF ELEV
7333.8
TVD
OF T/FELSITE*

FELSITE TOP LOCATION IN LAMBERTS

WELL: 958-6
 LOCATION: 1799503E 400953N
 SURFACE ELEVATION: 2222.
 CASING SHOE: 4052.
 FLOWRATE (KLBS/HR): 70.

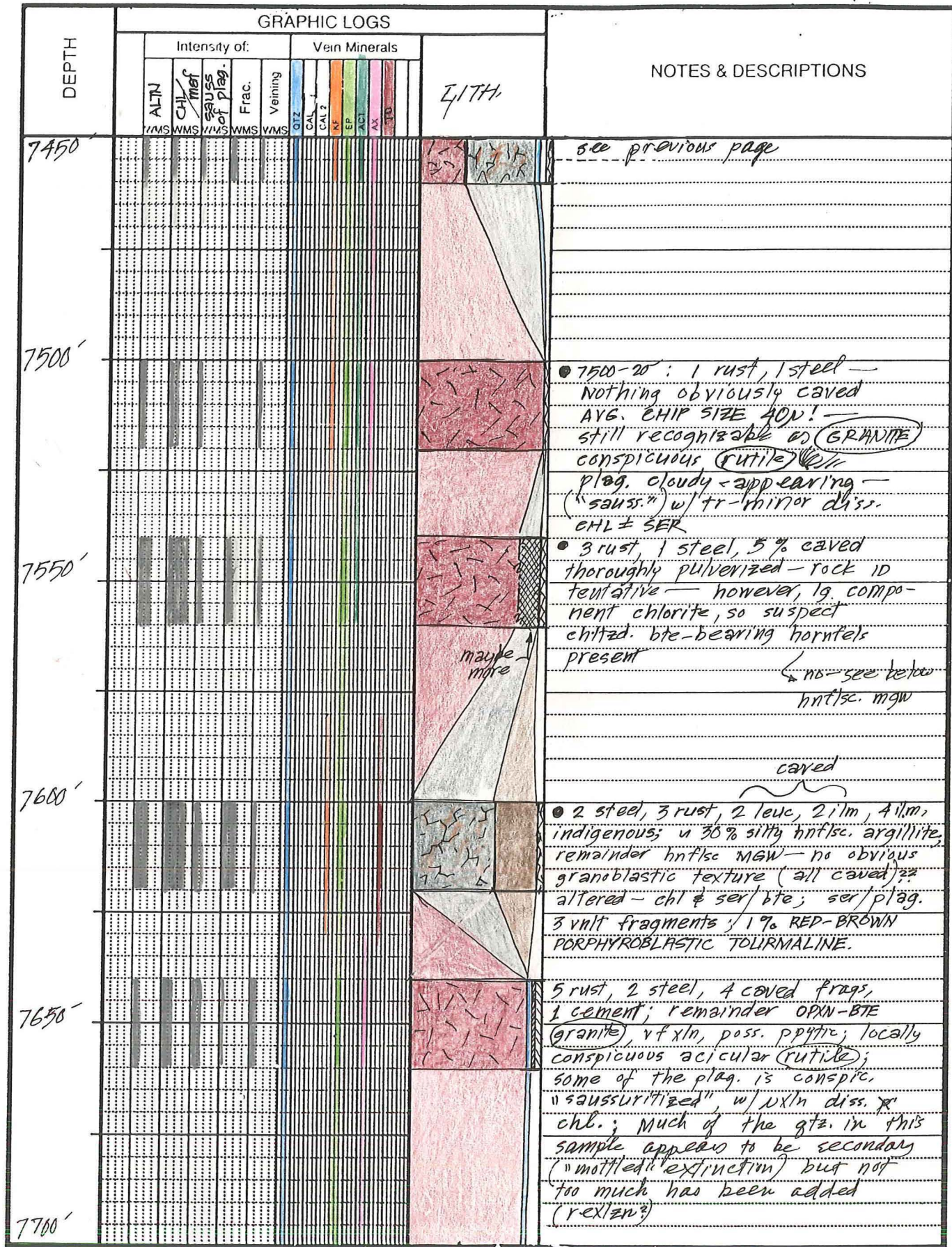
COMMENTS: CONVERTED TO INJECTION
 WELL WITH 6.63" CSG TO 7834'. BH.LOC EXTRAPOLATED

M.D.	T.V.D	N(-S)	E(-W)	COMP. INC
0.	0.	0.	0.	0.
200.	200.	1.	1.	-100.
400.	400.	3.	4.	-100.
597.	597.	6.	9.	0.
600.	600.	6.	9.	-100.
800.	799.	11.	15.	-100.
1000.	999.	15.	23.	-100.
1061.	1060.	17.	26.	0.
1200.	1199.	24.	34.	-100.
1400.	1398.	29.	45.	-100.
1478.	1476.	29.	49.	0.
1600.	1599.	27.	60.	-100.
1800.	1798.	18.	66.	-100.
1854.	1852.	14.	65.	0.
2000.	1997.	3.	54.	-100.
2134.	2129.	-14.	40.	0.
2200.	2192.	-31.	29.	-100.
2400.	2382.	-82.	-3.	-100.
2590.	2564.	-129.	-32.	0.
2600.	2574.	-131.	-33.	-100.
2800.	2766.	-179.	-59.	-100.
3000.	2958.	-228.	-86.	-100.
3128.	3081.	-260.	-103.	0.
3200.	3149.	-280.	-113.	-100.
3400.	3340.	-333.	-141.	-100.
3600.	3532.	-383.	-167.	-100.
3601.	3533.	-383.	-167.	0.
3800.	3726.	-424.	-189.	-100.
4000.	3919.	-469.	-213.	-100.
4052.	3969.	-481.	-219.	0.
4052.	3969.	-481.	-219.	-10.
4200.	4112.	-516.	-237.	-100.
4400.	4304.	-567.	-263.	-100.
4507.	4406.	-595.	-277.	0.
4600.	4494.	-621.	-290.	-100.
4800.	4684.	-679.	-318.	-100.
5000.	4873.	-738.	-347.	-100.
5066.	4935.	-758.	-356.	0.
5200.	5061.	-800.	-375.	-100.
5400.	5248.	-863.	-403.	-100.
5600.	5436.	-927.	-431.	-100.
5671.	5502.	-950.	-441.	10.
5730.	5557.	-969.	-449.	10.
5800.	5623.	-992.	-459.	-100.
5805.	5627.	-994.	-460.	24.
5989.	5799.	-1054.	-485.	70.
6000.	5809.	-1058.	-487.	-100.
6064.	5869.	-1079.	-496.	0.
6200.	5996.	-1124.	-516.	-100.
6400.	6182.	-1191.	-545.	-100.
6410.	6191.	-1194.	-547.	8.
6600.	6368.	-1259.	-574.	-100.
6800.	6554.	-1328.	-601.	-100.
7000.	6740.	-1397.	-628.	-100.
7062.	6797.	-1419.	-636.	0.
7200.	6925.	-1469.	-653.	-100.
7400.	7109.	-1540.	-678.	-100.
7600.	7294.	-1612.	-703.	-100.
7686.	7374.	-1643.	-714.	0.
7800.	7479.	-1684.	-728.	-100.
7820.	7498.	-1691.	-731.	0.

- 3280 E1

OPEN HOLE DESCRIPTION

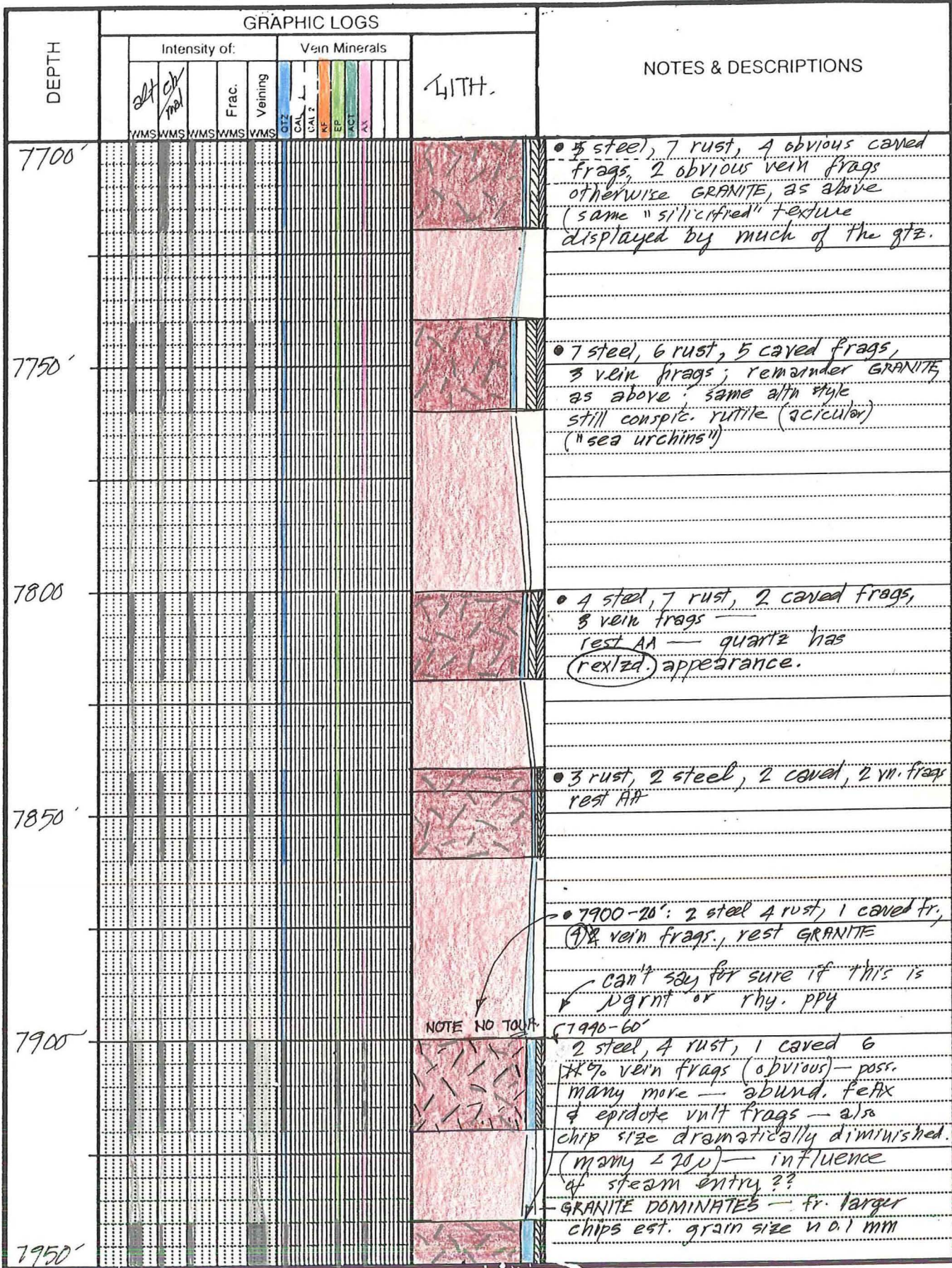
SIZE (IN)	**** INTERVAL	*****
	TOP	BOTTOM
8.75	4052.	7820.



Borehole No. CMHC-7
 Depth Interval 7450-7700'

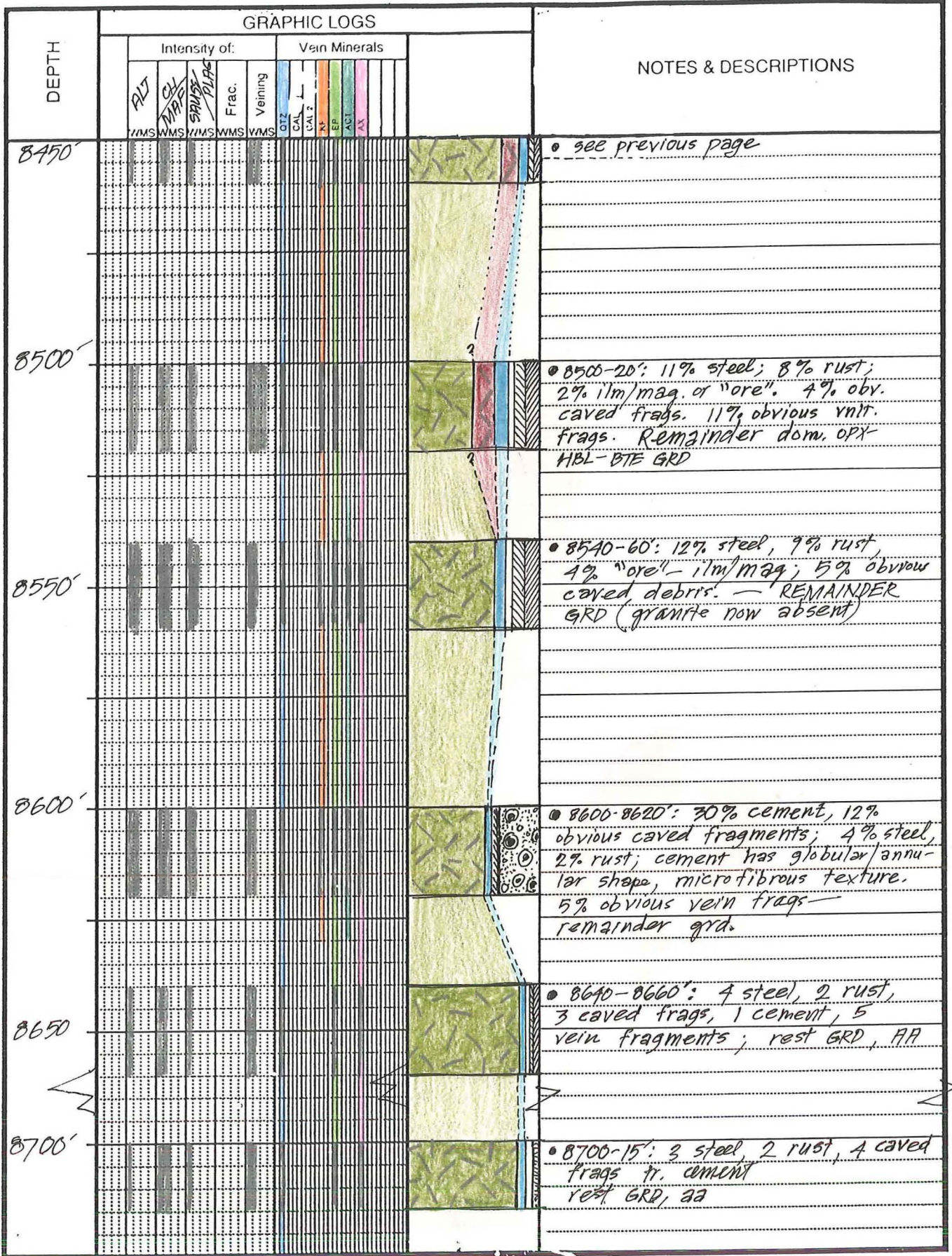
Logged By JH
 Date _____





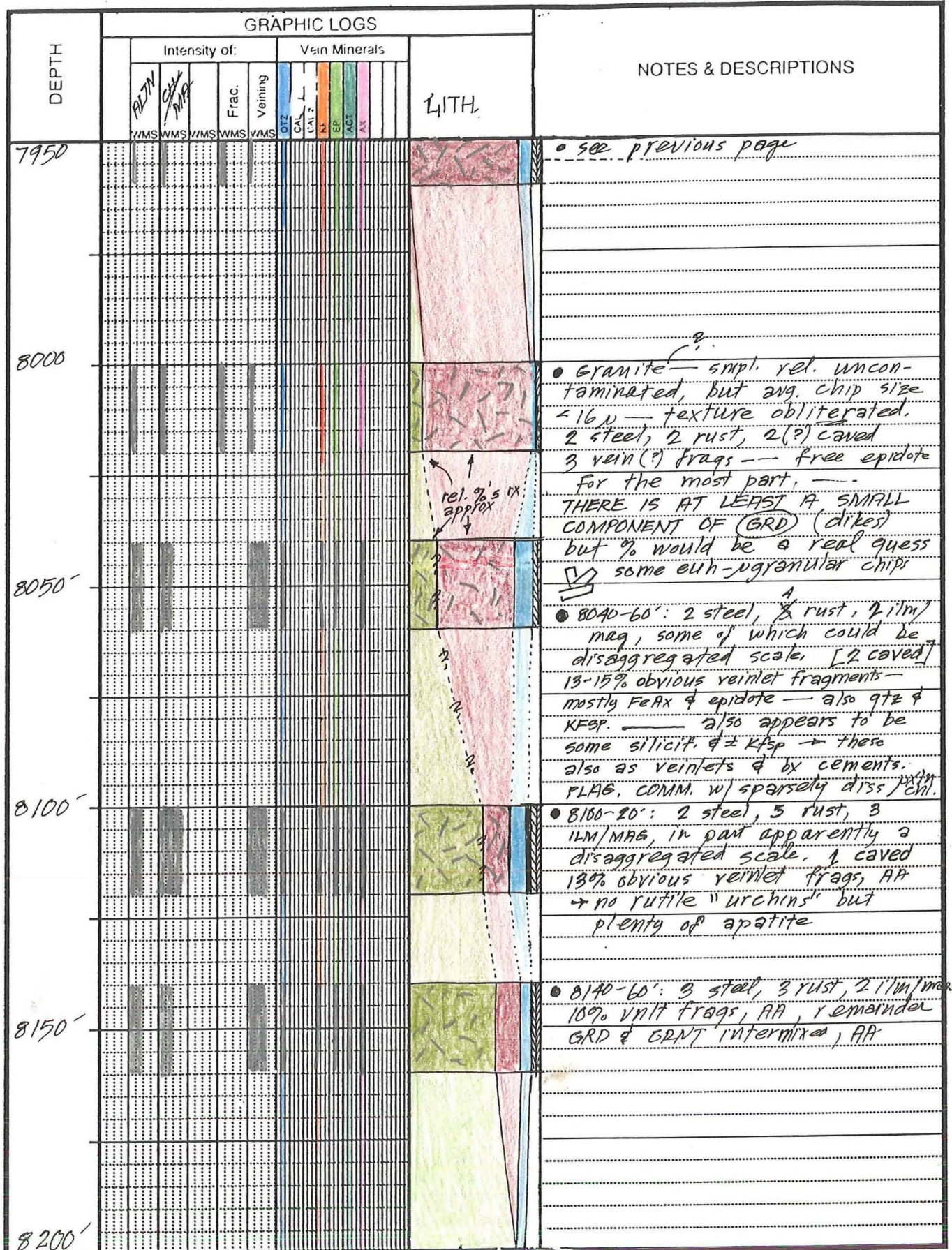
Borehole No. CMHC-7
 Depth Interval 7700-7950'

Logged By JBH
 Date _____



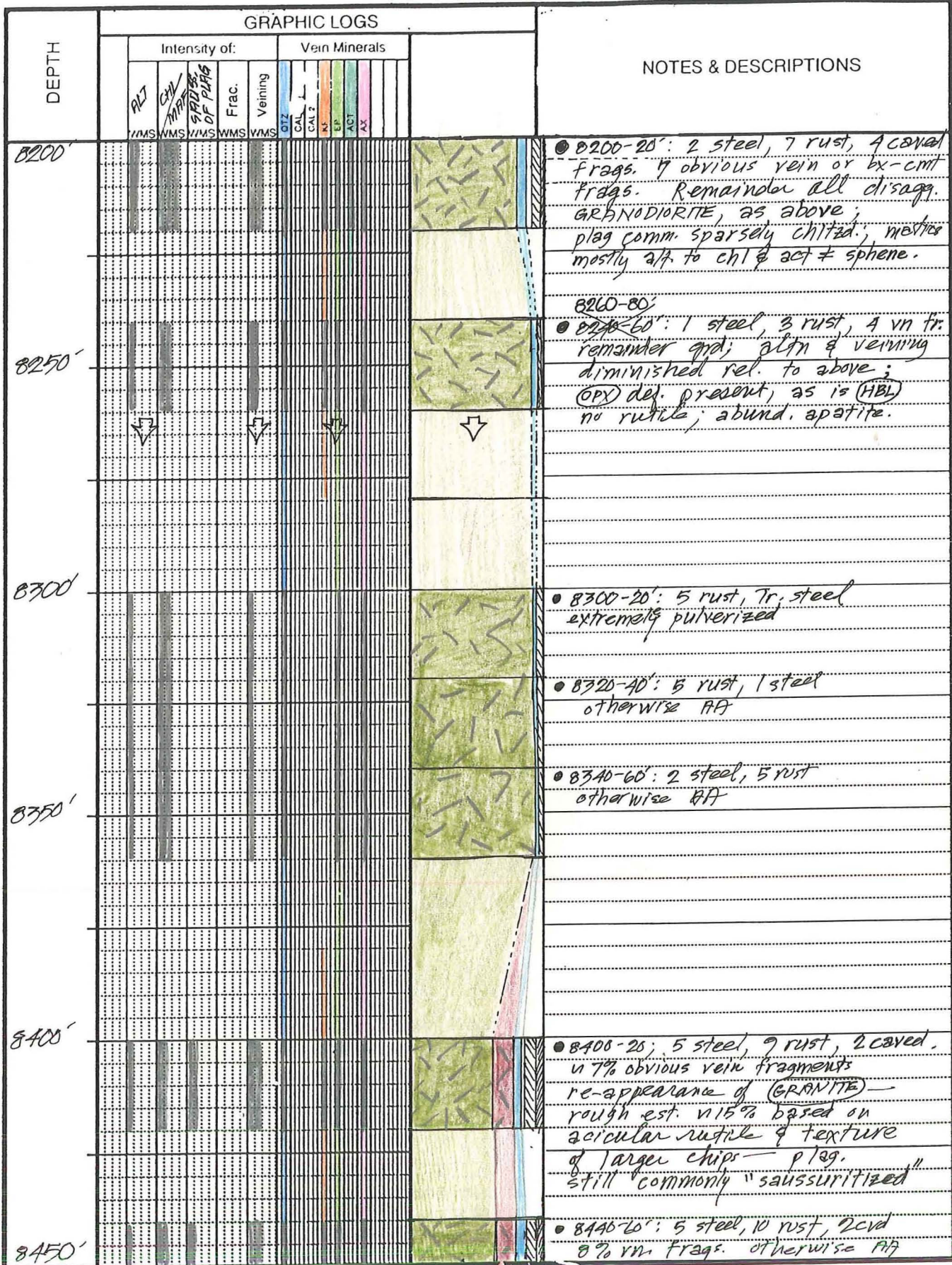
Borehole No. CMHC-7
 Depth Interval 8450-8715'

Logged By JH
 Date _____



Borehole No. CMHC-7.
 Depth Interval 7950-8200'

Logged By JBH
 Date _____



Borehole No. DMHC-7

Depth Interval 8200-8450'

Logged By JH

Date _____

COB MOUNTAIN HUNTING CLUB 7
STANDARD SURVEY TABLE

STA	MEAS. DEPTH	VERT. DEPTH	DRIFT		CUMULATIVE COORDINATES		TOTAL
			***** ANGLE	BEARING	N S(-)	E W(-)	
1				N08E			
2	86	86	0.50	N08E	0.37	0.05	0.38
3	190	190	0.75	S64W	1.04	-0.87	1.51
4	310	310	0.75	S08W	-0.23	-1.79	3.08
5	409	409	1.25	S02W	-1.95	-1.94	4.81
6	494	494	1.00	S17W	-3.60	-2.21	6.48
7	622	622	1.00	S23E	-5.83	-2.10	8.71
8	744	744	1.00	S51W	-7.90	-2.61	10.84
9	869	869	1.00	S67E	-10.06	-2.31	13.02
10	995	995	0.50	N59E	-9.94	-0.66	14.67
11	1116	1116	0.50	N35E	-9.22	0.11	15.73
12	1243	1243	0.50	N00E	-8.16	0.44	16.84
13	1370	1370	1.75	N63W	-6.04	-0.86	19.33
14	1431	1431	2.25	N30W	-4.57	-2.41	21.46
15	1494	1494	3.00	N52W	-2.40	-4.30	24.34
16	1557	1557	2.75	N51W	-0.43	-6.77	27.50
17	1650	1650	3.25	N57W	2.43	-10.71	32.37
18	1745	1744	3.75	N62W	5.38	-15.71	38.17
19	1845	1844	4.50	N56W	9.08	-21.87	45.36
20	1937	1936	4.75	N52W	13.44	-27.87	52.78
21	2026	2025	4.50	N48W	18.05	-33.37	59.96
22	2139	2137	4.50	N44W	24.21	-39.75	68.82
23	2265	2263	5.25	N36W	32.42	-46.63	79.53
24	2350	2347	5.75	N34W	39.09	-51.30	87.68
25	2486	2483	6.00	N38W	50.35	-59.49	101.60
26	2611	2607	6.25	N42W	60.57	-68.06	114.94
27	2730	2725	6.25	N36W	70.64	-76.21	127.89
28	2856	2850	6.25	N37W	81.66	-84.37	141.61
29	2982	2976	6.25	N39W	92.47	-92.82	155.33
30	3109	3102	6.50	N40W	103.35	-101.79	169.43
31	3236	3228	6.75	N40W	114.58	-111.20	184.08
32	3359	3350	6.75	N42W	125.49	-120.69	198.54
33	3483	3473	6.75	N47W	135.88	-130.90	213.11
34	3609	3598	7.00	N51W	145.78	-142.29	228.19
35	3732	3721	6.75	N47W	155.44	-153.40	242.92
36	3776	3764	7.50	N50W	159.05	-157.49	248.37
37	3807	3795	6.25	N56W	161.29	-160.45	252.09
38	3839	3827	6.50	N68W	162.96	-163.59	255.64
39	3871	3859	6.00	N80W	163.92	-166.94	259.12
40	3903	3890	6.50	S89W	164.19	-170.41	262.61

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BETTY A. LESSNAU
MAR - 6 1973

MAR 06, 1979

WEIGHTING FACTOR: 0.50

COR () NTAIN HUNTING CLUB 7
STANDARD SURVEY TABLE

STA	MEAS. DEPTH	VERT. DEPTH	DRIFT		CUMULATIVE COORDINATES		TOTAL SEC
			***** ANGLE	BEARING	N S(-)	E W(-)	
41	4021	4007	10.00	S76W	161.98	-187.20	279.54
42	4140	4124	10.50	S72W	156.14	-207.55	300.71
43	4264	4246	10.75	S64W	147.58	-228.75	323.58
44	4328	4309	11.00	S63W	142.19	-239.56	335.65
45	4343	4324	11.00	S62W	140.87	-242.10	338.51
46	4373	4353	11.25	S67W	138.38	-247.32	344.30
47	4405	4384	12.00	S70W	136.01	-253.32	350.75
48	4438	4417	11.75	S75W	133.97	-259.80	357.54
49	4469	4447	11.50	S82W	132.73	-265.92	363.79
50	4501	4479	11.25	S87W	132.12	-272.20	370.10
51	4573	4549	10.00	N82W	132.70	-285.46	383.37
52	4665	4640	10.00	N82W	134.92	-301.28	399.35
53	4760	4733	10.00	N85W	136.79	-317.67	415.84
54	4856	4828	11.00	N82W	138.77	-335.05	433.34
55	4951	4921	12.50	N80W	141.80	-354.16	452.68
56	5045	5012	15.00	N80W	145.68	-376.16	475.03
57	5138	5102	17.00	N84W	149.25	-401.55	500.66
58	5201	5162	18.25	N81W	151.74	-420.46	519.74
59	5295	5250	20.00	N86W	155.22	-451.06	550.53
60	5387	5336	21.50	N85W	157.78	-483.55	583.13
61	5481	5424	22.50	N82W	161.77	-518.54	618.34
62	5543	5481	23.00	N83W	164.90	-542.31	642.32
63	5607	5539	24.00	N89W	166.68	-567.77	667.84
64	5670	5597	25.00	N81W	168.95	-593.80	693.96
65	5733	5654	26.00	N84W	172.49	-620.69	721.08
66	5827	5738	26.25	N83W	177.18	-661.81	762.48
67	5925	5825	28.00	N82W	183.01	-706.11	807.16
68	6019	5908	29.00	N83W	188.87	-750.58	852.01
69	6112	5989	30.00	N84W	194.05	-796.08	897.81
70	6208	6071	31.25	N82W	200.01	-844.62	946.71
71	6303	6152	32.00	N82W	206.94	-893.95	996.52
72	6392	6227	33.00	N84W	212.77	-941.41	1044.34
73	6487	6306	34.75	N85W	217.85	-994.12	1097.29
74	6563	6368	35.25	N80W	223.54	-1037.34	1140.89
75	6656	6445	34.00	N80W	232.71	-1089.38	1193.73
76	6751	6523	35.00	N80W	242.06	-1142.37	1247.54
77	6845	6601	33.00	N81W	250.73	-1194.21	1300.10
78	6923	6668	30.50	S87W	252.88	-1235.20	1341.15
79	6986	6722	29.00	S84W	250.43	-1266.37	1372.41
80	7049	6778	27.50	S83W	247.05	-1295.99	1402.23

BETTY A. CESSNAU
MAR - 6 1979

MAR 06, 1979

WEIGHTING FACTOR: 0.50

COBB COUNTY TAIN HUNTING CLUB 7
STANDARD SURVEY TABLE

STA	MEAS. DEPTH	VERT. DEPTH	DRIFT *****		CUMULATIVE COORDINATES		TOTAL SEC
			ANGLE	BEARING	N S(-)	E W(-)	
81	7114	6835	28.25	S79W	242.30	-1326.01	1432.62
82	7207	6917	29.00	S74W	231.90	-1369.33	1477.17
83	7271	6973	29.00	S72W	222.82	-1399.00	1508.20
84	7365	7054	31.00	S70W	207.52	-1443.44	1555.20
85	7461	7135	34.00	S69W	189.46	-1491.76	1606.78
86	7548	7206	36.25	S68W	171.11	-1538.33	1656.83
87	7650	7288	37.00	S69W	148.81	-1594.95	1717.69
88	7744	7363	37.25	S68W	128.02	-1647.73	1774.42
89	7870	7463	37.50	S66W	98.13	-1718.14	1850.91
90	7997	7564	37.00	S68W	68.10	-1788.90	1927.78
91	8124	7666	36.00	S72W	42.26	-1859.89	2003.32
92	8238	7759	35.75	S71W	21.06	-1923.24	2070.13
93	8363	7861	34.25	S69W	-3.46	-1990.61	2141.82
94	8490	7966	33.75	S69W	-28.91	-2056.91	2212.84 ✓
95	8584	8046	31.50	S72W	-45.83	-2104.69	2263.52
96	8713	8156	31.00	S72W	-66.51	-2168.33	2330.44 ✓

MAR 16, 1979

WEIGHTING FACTOR: 0.50

BETTY A. BRESSNAU
MAR 16 1979

DEPTH	GRAPHIC LOGS													NOTES & DESCRIPTIONS			
	Intensity of:					Vein Minerals									LITH		
	ALT	ch/maf	SALTS OF PLAG.	Frac.	Veining	QTZ	CAL	CAL?	HA	EP	ACT	AX	TO			CPX	
8250'																	SEE PREVIOUS PAGE
8300'																	<ul style="list-style-type: none"> 1 steel, 5 rust & scale Remainder extr. fine-gr. GRANITE AA - almost certainly contain. w/ comminuted bte-bearing hornfels. rust-demented chip aggregates have curious shard-like aspect (vesiculated foam-cutting mixture)
																	REALLY UNUSABLE

Borehole No. CLURRY-3

Depth Interval 8250-8340'

Logged By JH

Date _____

Recalc. to elim. contamination

Curry 3

MINERALOGY, APPROX. WT.% (or) RELATIVE ABUNDANCE

SAMPLE NO.	MINERALOGY, APPROX. WT.% <input type="checkbox"/> (or) RELATIVE ABUNDANCE <input type="checkbox"/>														RELATIVE ABUNDANCE									
	QTZ	PL	KF	CAL	OPX/CAN	ACT	EP	PR	ILM/MAG	SPH/LEUC.	PY	TOUR	FeX	BTE	ILLITE	CHL	TAC/PYROPH	SERP	RTILE	APATITE	RLST	STEEL	COVER FRAGMENTS	CEMENT
8000-20				1	3	4		1	TR	TR	TR	3	1	Tr	4						9	6	7	(22)
8040-60				2	3	4		1	TR	-	TR	2	2	TR	5						10	8	17	(35)
8100-20				2	3	3		2	TR	-	TR	2	2	TR	3						13	10	9	(32)
8140-60																								
8200-20				2	2																15	7	25	(47)
8240-60																					5	3	4	(12)
8300-35																								

↑
BAD, NOT USABLE
↓
DUST, that is.

MM = PREDOMINANT M = MAJOR m = MINOR Tr = TRACE ? = TENTATIVE IDENTIFICATION



CLIRRY-3

MINERALOGY, APPROX. WT.% (or) RELATIVE ABUNDANCE

SAMPLE NO.

PTZ PLAS KA CAL QAN CAN RCT. EP. PREHN. ILM MMS SPH/LEUCO PP BTE ILL CHL TALC PYROPH. TOURMALINE FERROXINITE rutile apatite sillimanite AVG. CHIP DIA. mm MAX. CHIP DIA. mm

NOT AB
RUST?
" ?
" ?
RUST
rust &
dust

8000-8020	40	27	20	1	2	3	1	Tr	Tr	1	3		Tr	2	-	Tr	0.08	0.30	mostly pluton already
8040-8060	99	26	17	1	2	3	1	Tr		1	3		Tr	1	-		0.11	0.52	ratty
8100-8120	96	29	19	1	2	2	1	Tr		1	2		Tr	1	-	Tr	0.10	0.62	beaut (allanite)
8140-8160	31	27	19	2	-		1?	Tr?		2?	2		?	?					bad smpl. NOTE INCR. IN BTE.
8200-8220	28	16	8	1?	1?	1?	2?	1?		2?	X 4		2	Tr					back in hntls? caved?
8240-8260	20	19	17	1	2	1	1?	1?		3	3		Tr	Tr			0.08	0.08	dust
8300-8320				1?	1?					4	3		Tr	Tr			"	0.09	dust
78																			

MM = PREDOMINANT M = MAJOR m = MINOR Tr = TRACE ? = TENTATIVE IDENTIFICATION



SUMMARY OF X-RAY DIFFRACTION ANALYSIS
UNIVERSITY OF UTAH RESEARCH INSTITUTE, EARTH SCIENCE LABORATORY

CLIRRY-3 XRD

CURRY-2
STANDARD SURVEY TABLE

CONFIDENTIAL

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STA	MEAS. DEPTH	VERT. DEPTH	DRIFT		CUMULATIVE COORDINATES		TOTAL
			***** ANGLE	BEARING	N S(-)	E W(-)	
1	0	0	0.00	S38W	0	0	0
2	240	240	0.50	S38W	-1	-1	-1
3	374	374	1.00	S08W	-2	-1	-2
4	496	496	2.00	S44W	-5	-3	-4
5	684	684	3.25	S68W	-10	-10	-13
6	810	810	3.00	S06W	-13	-16	-20
7	936	935	3.75	S52W	-17	-23	-27
8	1006	1005	3.25	S60W	-19	-26	-31
9	1036	1035	2.25	S76W	-20	-27	-32
10	1093	1092	0.00	S76W	-20	-29	-34
11	1186	1185	0.50	N53E	-19	-29	-34
12	1310	1309	0.25	N30W	-19	-28	-33
13	1491	1490	1.75	N88W	-17	-31	-35
14	1624	1623	2.25	S88W	-17	-36	-39
15	2004	2003	3.25	S65W	-21	-54	-58
16	2127	2125	3.50	S70W	-24	-60	-65
17	2407	2405	3.75	S69W	-30	-77	-83
18	2444	2442	3.75	S60W	-31	-79	-85
19	2478	2476	2.25	S55W	-32	-81	-87
20	2509	2507	0.75	S35W	-33	-81	-87
21	2540	2538	0.75	S30E	-33	-81	-87
22	2571	2569	2.25	N80E	-33	-80	-87
23	2603	2601	3.50	N73E	-33	-79	-85
24	2659	2657	3.75	N66E	-32	-75	-82
25	2726	2723	5.00	N69E	-30	-71	-76
26	2852	2849	6.00	N70E	-25	-59	-64
27	2946	2942	8.00	N69E	-21	-48	-53
28	3069	3063	11.50	N63E	-13	-29	-32
29	3165	3157	13.50	N58E	-3	-11	-12
30	3198	3189	14.50	N64E	1	-4	-4
31	3282	3276	14.25	N66E	10	15	17
32	3343	3330	14.00	N68E	15	28	32
33	3434	3416	14.50	N65E	24	49	54
34	3591	3570	14.00	N59E	42	83	93
35	3682	3658	14.25	N58E	54	102	114

APR 16, 1985 WEIGHTING FACTOR: 0.50
SECTION PROJECTED TO AZIMUTH N70E

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CURRY-3
STANDARD SURVEY TABLE

STA	MEAS. DEPTH	VERT. DEPTH	DRIFT		CUMULATIVE COORDINATES		SEC
			ANGLE	BEARING	N S (-)	E W (-)	
36	3747	3721	14.50	N58E	62	116	130
37	3780	3753	14.25	N63E	66	123	138
38	3811	3783	14.00	N64E	70	130	146
39	3842	3813	13.50	N69E	73	136	153
40	3874	3844	13.25	N76E	75	143	160
41	3937	3906	13.25	N80E	78	158	175
42	4043	4009	13.50	N82E	82	182	199
43	4231	4192	13.00	N81E	88	224	241
44	4326	4284	13.00	N80E	92	246	262
45	4577	4529	12.50	N76E	103	300	317
46	4694	4644	12.25	N78E	109	324	342
47	4821	4768	12.25	N77E	115	350	369
48	5041	4982	12.75	N76E	126	397	416
49	5287	5222	13.75	N74E	140	451	472
50	5494	5422	14.75	N73E	155	500	523
51	5659	5582	15.75	N73E	168	542	566
52	5787	5705	16.50	N73E	178	576	602
53	5945	5856	16.75	N77E	190	619	647
54	6174	6076	15.50	N75E	205	681	710
55	6383	6279	13.00	N85E	214	732	761
56	6609	6499	11.50	S79E	212	779	805
57	6857	6743	10.00	S78E	202	825	844
58	6941	6826	9.75	S82E	200	839	857
59	7067	6950	10.75	S84E	197	861	877
60	7436	7308	17.00	S87E	190	949	957
61	7654	7516	18.00	S87E	187	1015	1018
62	7902	7752	17.50	N68E	199	1090	1092
63	8338	8167	18.00	N45E	273	1200	1221

APR 16, 1985 WEIGHTING FACTOR: 0.50
SECTION PROJECTED TO AZIMUTH N70E

CURRY-3
 MARKER COORDINATE REPORT

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E-LOG MARKER NAME	DEPTHS			COORDINATES		LAMBERT
	MEAS	VERT	SUBSEA	NS	EW	X
30#	4930	4874	-2946	120	373	373
20#	4957	4900	-2972	122	379	379
20#	4996	4938	-3010	124	387	387
10#	7347	7222	-5294	192	928	928
15#	7830	7684	-5756	196	1068	1068

APR 16, 1985 WEIGHTING FACTOR: 0.50
 SECTION PROJECTED TO AZIMUTH N70E

120
 124
 192
 196

CURRY-3
STANDARD SURVEY TABLE

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STA	MEAS. DEPTH	VERT. DEPTH	DRIFT		CUMULATIVE COORDINATES		
			***** ANGLE	BEARING	N S (-)	E W (-)	
1	0	0	0.00	S38W	0	0	0
2	73	73	0.50	S38W	0	0	0
3	114	114	1.00	S08W	-1	0	-1
4	151	151	2.00	S44W	-2	-1	-1
5	208	208	3.25	S68W	-3	-3	-4
6	247	247	3.00	S66W	-4	-5	-6
7	285	285	3.75	S52W	-5	-7	-8
8	307	306	3.25	S60W	-6	-8	-9
9	316	316	2.25	S76W	-6	-8	-10
10	333	333	0.00	S76W	-6	-9	-10
11	361	361	0.50	N58E	-6	-9	-10
12	399	399	0.25	N30W	-6	-9	-10
13	454	454	1.75	N88W	-5	-10	-11
14	495	495	2.25	S88W	-5	-11	-12
15	611	610	3.25	S65W	-6	-16	-18
16	648	648	3.50	S70W	-7	-18	-20
17	734	733	3.75	S69W	-9	-23	-25
18	745	744	3.75	S60W	-10	-24	-26
19	755	755	2.25	S55W	-10	-25	-26
20	765	764	0.75	S35W	-10	-25	-27
21	774	773	0.75	S80E	-10	-25	-27
22	784	783	2.25	N90E	-10	-24	-26
23	793	793	3.50	N73E	-10	-24	-26
24	810	810	3.75	N66E	-10	-23	-25
25	831	830	5.00	N69E	-9	-21	-23
26	867	868	6.00	N70E	-8	-16	-20
27	898	897	8.00	N69E	-7	-15	-16
28	935	934	11.50	N63E	-4	-9	-10
29	965	962	13.50	N58E	-1	-3	-4
30	975	972	14.50	N64E	0	-1	-1
31	1000	997	14.25	N68E	3	4	5
32	1019	1015	14.00	N68E	5	9	10
33	1047	1042	14.50	N65E	7	15	17
34	1095	1088	14.00	N59E	13	25	28
35	1122	1115	14.25	N53E	15	31	35

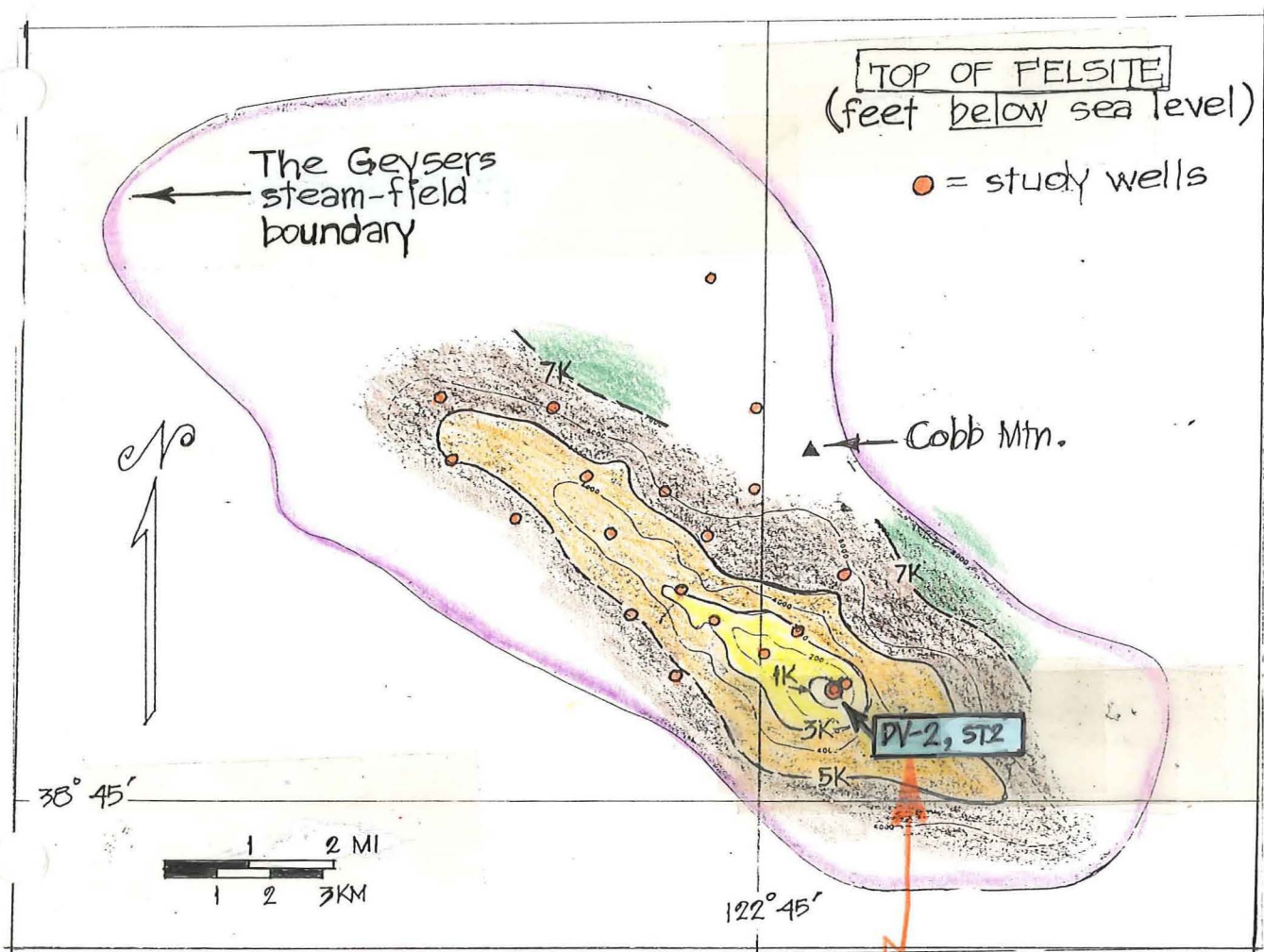
APR 16, 1985 WEIGHTING FACTOR: 0.50 MEASUREMENTS ARE IN METERS
SECTION PROJECTED TO AZIMUTH N70E

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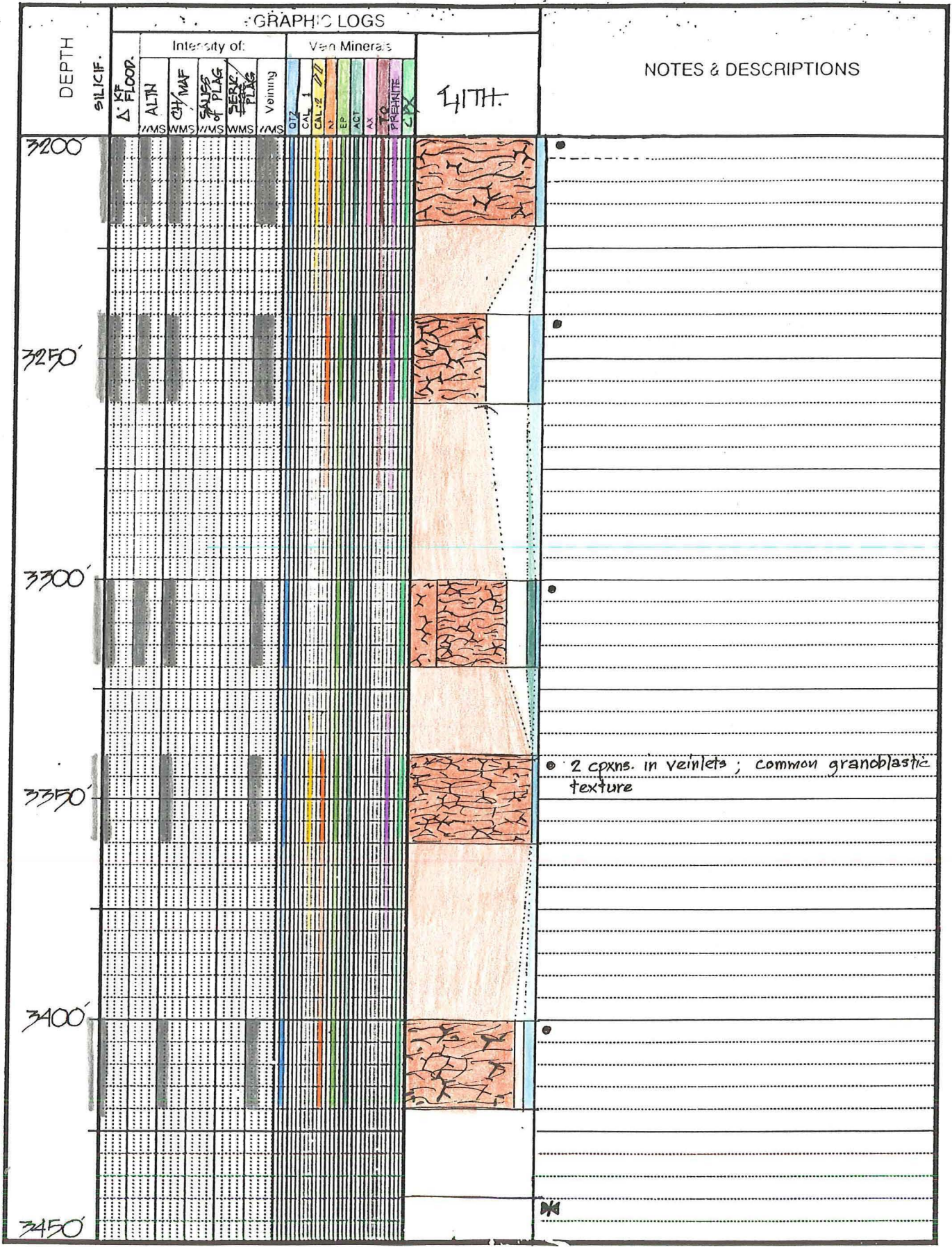
CURRY-3
 STANDARD SURVEY TABLE

STA	MEAS. DEPTH	VERT. DEPTH	DRIFT		CUMULATIVE COORDINATES		
			ANGLE	BEARING	N S(-)	E W(-)	
36	1142	1134	14.50	N58E	19	35	40
37	1152	1144	14.25	N63E	20	37	42
38	1162	1153	14.00	N64E	21	40	44
39	1171	1162	13.50	N69E	22	42	47
40	1181	1172	13.25	N76E	23	44	49
41	1200	1190	13.25	N80E	24	48	53
42	1232	1222	13.50	N82E	25	55	61
43	1290	1278	13.00	N81E	27	68	73
44	1319	1306	13.00	N80E	28	75	80
45	1395	1381	12.50	N76E	31	91	97
46	1431	1415	12.25	N78E	33	99	104
47	1469	1453	12.25	N77E	35	107	112
48	1537	1519	12.75	N76E	38	121	127
49	1611	1592	13.75	N74E	43	138	144
50	1675	1653	14.75	N73E	47	152	159
51	1725	1701	15.75	N73E	51	165	173
52	1764	1739	16.50	N73E	54	175	183
53	1812	1785	16.75	N77E	58	189	197
54	1882	1852	15.50	N75E	63	208	216
55	1946	1914	13.00	N85E	65	223	232
56	2014	1981	11.50	S79E	64	238	245
57	2090	2055	10.00	S78E	62	251	257
58	2116	2081	9.75	S82E	61	256	261
59	2154	2118	10.75	S84E	60	263	267
60	2267	2227	17.00	S87E	58	289	292
61	2333	2291	13.00	S87E	57	309	310
62	2409	2363	17.50	N68E	61	332	333
63	2541	2489	18.00	N45E	83	366	372

APR 16, 1985 WEIGHTING FACTOR: 0.50 MEASUREMENTS ARE IN METERS
 SECTION PROJECTED TO AZIMUTH N70E



Bob, please emphasize



Borehole No. DV-2
 Depth Interval 3200 - 3450'

Logged By JH
 Date _____

DEPTH	GRAPHIC LOGS											LITH.	NOTES & DESCRIPTIONS		
	Intensity of :					Vein Minerals									
	ALTN	CH	mat.	sauss.	of plag.	EP	PL	ACT	AX	TO	CR				
WMS	WMS	WMS	WMS	WMS	WMS	WMS	WMS	WMS	WMS	WMS	WMS				
3450'															SEE PREVIOUS PAGE
3500'															
3550'															
3600'															
3650'															
3700'															

Borehole No. DV-2,
 Depth Interval _____

0.1-30
 0.1-30
 0.1-30

Logged By JH
 Date _____

DEPTH	GRAPHIC LOGS														LITH.	NOTES & DESCRIPTIONS		
	Intensity of:					Vein Minerals												
	Al-TN	Ch/maf	epid	plag	veining	Qtz	Cal	Gal	Ep	Act	Av	Py	Op	Cpx				
3700'																		
3750'																		
3800'																		
3850'																		
3900'																		
3950'																		

Borehole No. DV-2
 Depth Interval _____

0.1000
 0.1000
 0.1000

Logged By JH
 Date _____

DEPTH	GRAPHIC LOGS														LITHOLOGY & CONTAMI- NANTS	NOTES & DESCRIPTIONS
	Intensity of:					Van Minerals					Veining	Cpx				
	ALTN WMS	CHL/NA WMS	SER/PL WMS	SAUSS. OF PLAG. WMS	WMS	OZ Cpx	CA Cpx	LA Cpx	EP Cpx	ACT Cpx			AX Cpx	TC Cpx		
7800'																<ul style="list-style-type: none"> 3/5/1/2 rem. rel. fresh BTE-OPX. Granite avg. chip size \approx 60μ tr. acicular "rutile" - OPX distinctly green-red pleochroic (different) 2/3/2/3 AA
7900'																<ul style="list-style-type: none"> dust -- avg. grain size only \approx 20μ! TR/1/-/1? AA? too fine to say for sure.
8000'															VERY FRESH	<ul style="list-style-type: none"> R/2/2/Tr. dramatic rx type change \approx 10% tr. mafics w/ OPX & Cpx, bte, hbl - ragged-emb. plag. laths - EAST GEYSERS GRANODIORITE - some conspic. apatite, needles - rock is relatively fresh TR/3/1/1 - (fresh) GRD AA - cpx repl. opx - bte repl. cpx & opx avg. chip size \approx 50μ 1/3/1/3 AA
8100'																<ul style="list-style-type: none"> 1/3/1/1 AA - tr. greenish-yellow to bluish-green pleochroic actinolite much more "ragged" appearance mostly due to increase in degree of chlzn of mafics & sauss. of plagioclase.
8200'																<ul style="list-style-type: none"> 1/4/1/1 AA, fresher again ^{chip size} \approx 30μ
8300'																

Borehole No. DV-2

Depth Interval 7800-8300'

Logged By J. HULEN

Date _____

DEPTH	GRAPHIC LOGS														LITHOLOGY CONTAMINANTS	NOTES & DESCRIPTIONS
	Intensity of:					Van Minerals					Veining	C1X				
	ALTIN WMS	CH/ML WMS	SER P WMS	Sulfide Plac. WMS	WMS	OL	CAL	LAZ	AN	EP			AGT	AX		
8700'																<p>● 1/5/1/1 — GRD Δ, smpl nearly reduced to dust — rx quite fresh — still abund. apatite</p> <p>● 3/3/6/1 — AP, but avg. chip size incr. to (90μ) — some larger chips have grain sizes < 0.1μ but suspect rx has different domains & may be porphyritic</p>
8400'																<p>● 2/2/3/1 — (AA) quite (fresh)</p> <p>● 1/3/2/1 — (AA)</p>
8500' DUST																<p>?? avg. chip size 15μ! (DUST)</p> <p>● prob. GRD, but v. poor smpl. makes characterization different</p>
																<p>● 1/2/1/1 — same as 8400-20' still very fresh but slightly more chl/mafics</p>
8600'																<p>● 1/3/2/1 — (AA) REMAINS FRESH TO BIM-HOLE</p>

Borehole No. DV-2

Depth Interval 8300-8600'

Logged By JH

Date _____

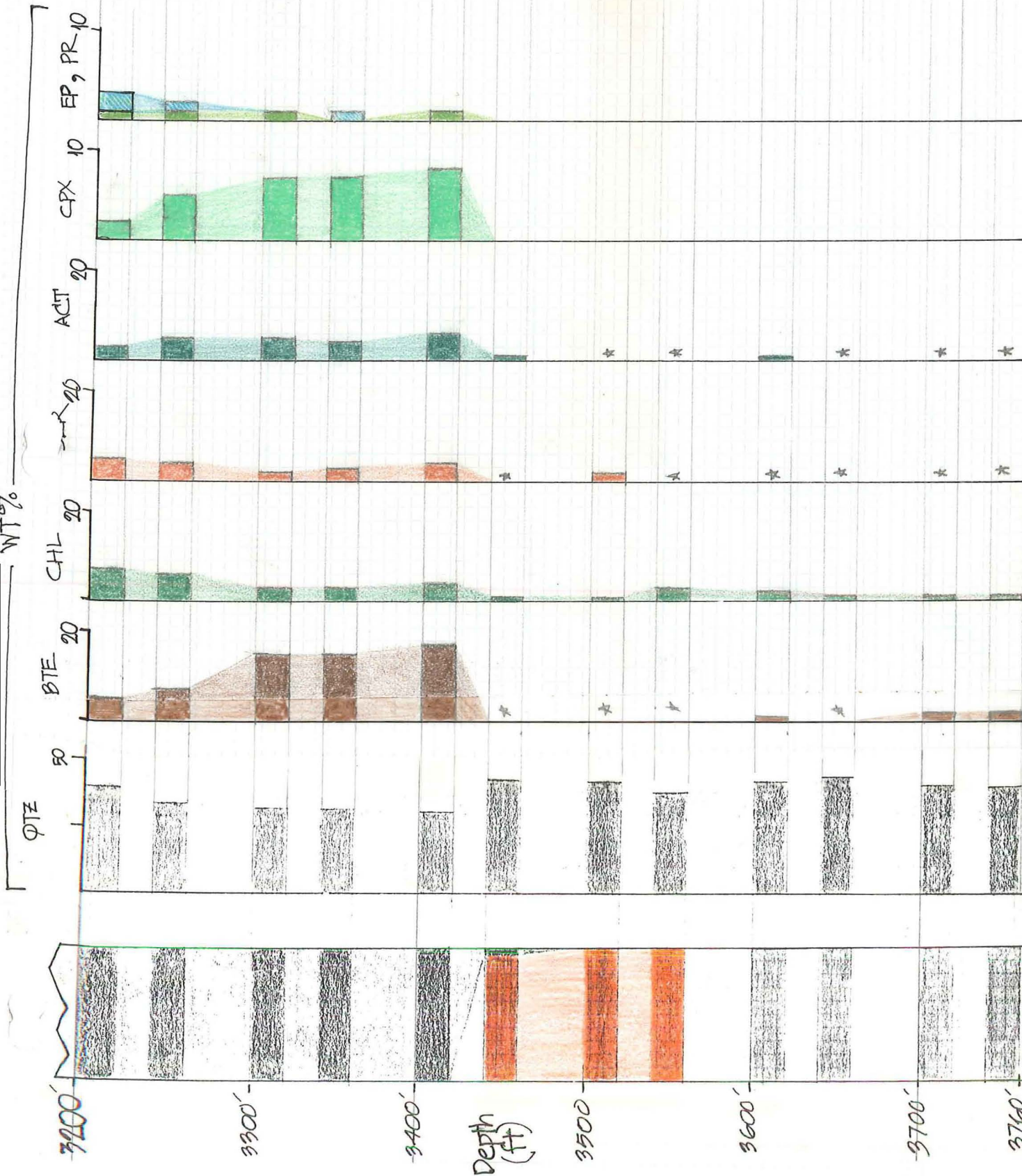
DEPTH	GRAPHIC LOGS														LITH	NOTES & DESCRIPTIONS	
	KF/plag.	Intensity of:					Vein Minerals										
		ALT WMS	CH/MAF WMS	Salts of Plag. WMS	Frac. WMS	Veining WMS	OPX	CAL	CAL?	N	EP	ACT	AX	TO			OPX
8000																	<ul style="list-style-type: none"> 6 steel, 9 rust, 7 obviously caved fragments, remainder PXLN (Granite) no acc. rutile (R) apatite, opxn ply alt. to bte, actinolite (blue-green); 5 vein frags; plag w/ky & erratically alt. to chl, ep., tr. illite: acc. (tr.) allanite
8050																	<ul style="list-style-type: none"> 8 steel, 10 rust & scale, 17% obvious caved fragments; 5 veinlet frags, no rutile or apatite, but also lack of lath-like plag — strongly believe rx is altered OPXN-BTE GRANITE, w/ much of OPXN alt. to blue-green actinolite — also rxn deuteric (bte); a few plag. chips show weak KSP/alt
8100																	<ul style="list-style-type: none"> 10 steel, 13 rust & scale, 9 caved frags; 5 vein frags — remainder AX
8150																	<ul style="list-style-type: none"> 5 RUST, REST DUST BAD SAMPLE TS TOO THIN <p>? DUST rx type unknown</p>
8200																	<ul style="list-style-type: none"> 7 steel, 15 rust & scale, 25% caved frags. remainder prop. granite but can't say for sure — extremely fine cuttings. app, though — no hbl, apatite
8250																	<ul style="list-style-type: none"> 3 steel, 5 rust, 4 caved, OTHERWISE AA (DUST - 8, U avg)

Borehole No. CURRY 3

Depth Interval 8000-8250

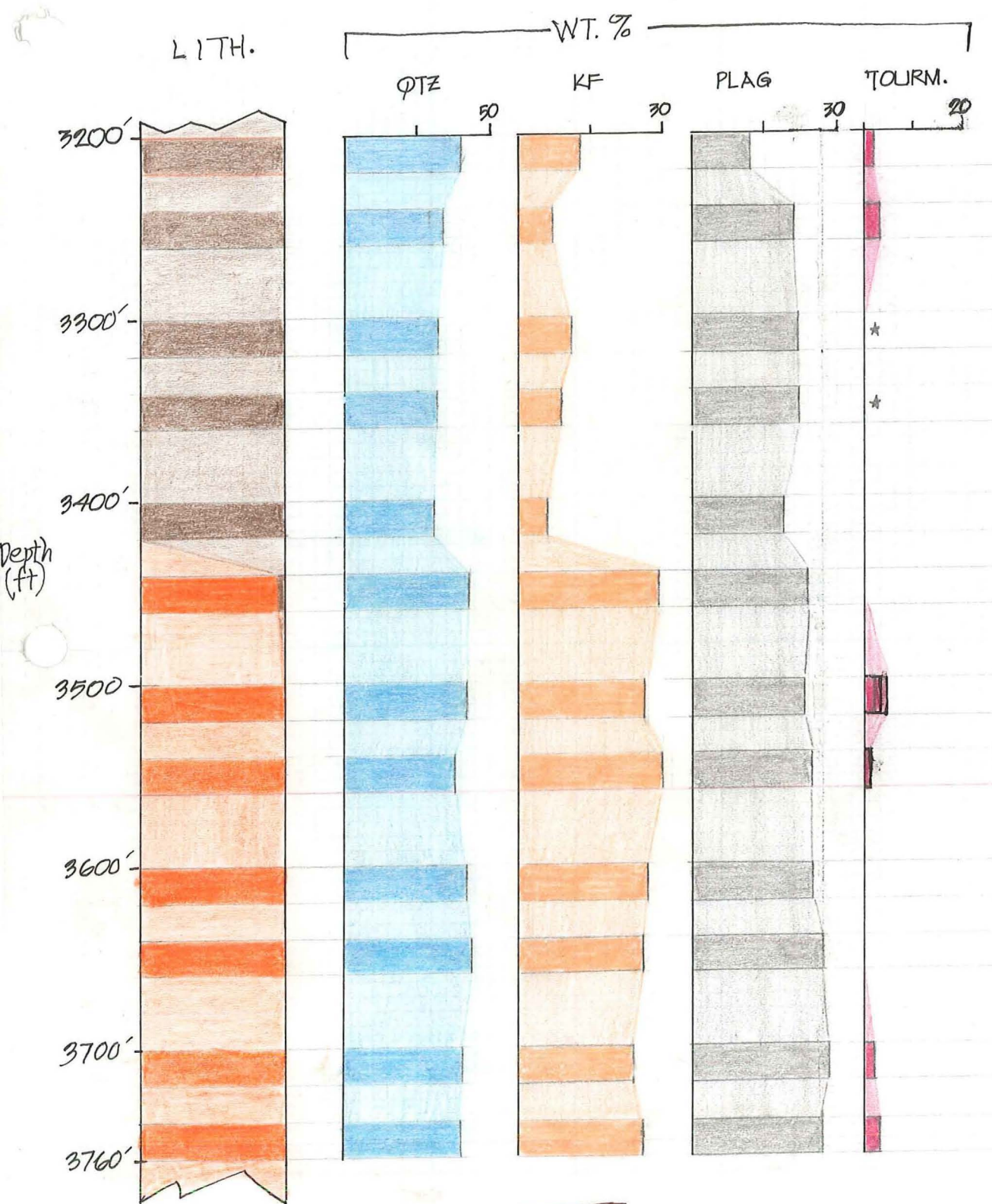
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Date _____



DN-2, STR

FELSITE CONTACT: MINERALOGY



DV-2, ST2

FELSITE CONTACT: MINERALOGY

Petrographic Summary

Sample Identification ^{20'} DV-2 3200-3270	Petrographer/Date of Examination JBT
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Rock Type (w/ chlor/leucoxn)

QTZ-OLIG-PHENITE-GARNET HORNFELS (qtz. & oligoclase seem to encapsulate actinolite (now chltd?))

HORNFELSIC MGW SEMISCHIST - bte-bearing. (qtz, bte, oligocl., leucoxn - tr. allanite ± irreg. aggregates of acicular actinolite ± irregular granoblastic CPX aggregates.

DISCRETE VNL7 FRAGS - 5% Tr. serpentinite (caved)

Mineralization

Alteration/Metamorphism

some KFSP flooding adjacent to CHL-KF veinlets

POTASSIC ALTN. of MGW widespread, intense; erratically dist., diffuse to fairly solid aggregates in which orig. plag. is alt. to KFSP. — accompanied by silicification

Tr. loc cal. clots/matrix

Fluid Inclusions

☉ - 95% (V)

☐ - 5% L:V u 2.5-3:1

Porosity Summary

note ϕ -KF - Bladed calcite veinlet.

It could be siderite (prob. is)

Interpreted Paragenesis of Vein- and Vug-Filling Minerals

✓ ϕ -KF cuts TOUR-qtz ± kf

VNL7S & VNL7 frags. account for u 12% of the rock

(Prehnite)(KFSP)

ϕ -KF - actinite

QTZ

(ACT) - QTZ - (chl)(cal)(sulf.)

TOURM - (QTZ)(kf)(spr)

act - Prehnite - CALCITE chl - KFSP

ϕ -KF

chl. - leucoxn - actinolite

KFSP - CPX - (qtz)

~~ϕ -CHL~~

ACT-g-
(chl)-leu

some FRAG. QUARTZ

Notes, Miscellaneous


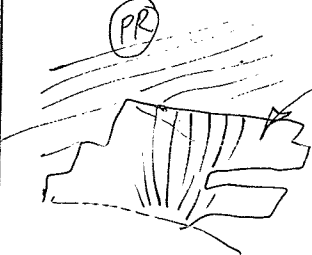
Petrographic Summary

Sample Identification DV-2 3240-3260	Petrographer/Date of Examination JBA
Rock Type 10% discrete veinlet fragments 55% hornfelsic semi-schist, as above 25% uxb - massive to weakly foliated g-plag-bte ± tour, act HORNFELS	
Mineralization	
Alteration/Metamorphism one allanite xl. ptly rimmed with epidote overall (same as above)	
Bte ptly alt. to chlor. plus leucan olig. → ptly err. to epidote <u>gran.</u>	
Fluid Inclusions AA	Porosity Summary NA
Interpreted Paragenesis of Vein- and Vug-Filling Minerals	
(rosettes) TOUR/KF/qtz/actin. & PLAG/tour - kf phengite or green = bte. KF/gar - pheng - leuc. EP/KF-PR	(QTZ)-(KF)-(CAL)-(DATOLITE?) PR-sulf KF ACT-qtz-kf cpx? (act)-QTZ-EP- (QTZ)- BTE (bte)-(ACT)-chl QTZ/BTE/ACT-chl.
Notes, Miscellaneous	

Petrographic Summary

Sample Identification DV2-3700	Petrographer/Date of Examination JBT
Rock Type 10% w/fsic ARGILLITE 5% discrete vein frags 85% w/f/s. bte-cpxn-olig-qtz ≠ act., ilm. SEMI-SCHIST	
Mineralization	
Alteration/Metamorphism chl + pheng + KF $\frac{1}{2}$ + qtz / <u>bte</u> chl/ mafics KF "flooding" — ^{chln.} of oligoclase.	
Fluid Inclusions	Porosity Summary
Interpreted Paragenesis of Vein- and Vug-Filling Minerals (plag)/ ϕ /BTE/AC coarse [act]/ilm/mag - CHL = ep. ACT/CPXN/EP - ϕ TZ ϕ TZ-CAL-EP ACT-ILM-CH KF/CPX - bte ϕ /KF/PR ϕ /AC [CPX] - ϕ TZ en (minor) chl def. late chlorite w/alk. PO/cpx/BTE/Qtz - chl — looks like of 27A-2	
Notes, Miscellaneous	

Petrographic Summary

Sample Identification DU-2 3300 3340	Petrographer/Date of Examination JBA
Rock Type 15% Hornfelsic ARGILLITE 92% CPXN-Qtz-OLIG. HNFLS. ± actinolite 60 Hnf/te MGW semi-schist 20 Hnf/te. MGW 5% vein frags. 95% hnf/te MGW semi-schist	
<div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p>→ true granoblastic texture</p> <p>↘ qtz-bte-cpxn-oligoclase (spr) ± <u>apatite</u></p> <p>↘ some olig. forms porphyroblasts sneaked w/ cpxn, bte.</p> </div> <div style="width: 35%; text-align: right;"> <p>common in Qtz clots in hnf/te semi-schist</p> </div> </div>	
Mineralization	
Alteration/Metamorphism patchy iron pegg. of bxh siderite locally repl. bte (≠ leuc.) chl.	
<div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p>poss. in some vults: bte repl. actinolite also chlorite & phengite after bte.</p> <p>green bte repl. actinolite (or hbl) in vults.</p> </div> <div style="width: 35%; border: 1px solid black; border-radius: 15px; padding: 5px; text-align: center;"> <p>bte. also repl. CPXN</p> </div> </div>	
Fluid Inclusions	Porosity Summary
Interpreted Paragenesis of Vein- and Vug-Filling Minerals	
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>enc → [act]-CAL-PR/KF w/ KFSP selvage</p> <p>FL-Qtz/KF-PR</p> <p>enc → = encapsulated in</p> <p>[] = relict</p> </div> <div style="width: 45%;"> <p>DIOP-ACT</p> <p>→ = replaced by</p> </div> </div>	
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Qtz/ACT - sulf</p> <p>Qtz - chl (att act.?)</p> <p>Qtz - ep.</p> <p>Qtz - CPXN < 2 var.</p> <p>KFSP.</p> <p>Qtz-ACT</p> <p>Qtz-BTE-CPXN-MAG.</p> </div> <div style="width: 45%; text-align: right;"> <p>green clast</p>  </div> </div>	
Notes, Miscellaneous	
<div style="display: flex;"> <div style="width: 20%;">  </div> <div style="width: 80%;"> <p>PR</p> <p>Bte has gone from wk-mod. orange-brn to vivid red-brown.</p> <p>calcite encaps. actinolite (∴ calcite dates post-actinolite, pre-prehnite)</p> </div> </div>	

DV - 3206-20 - is bladed calcite (tr) as vult frag; oligoclase
porphyroblast replaced w/ K-fsp (interior)
deep rose - H. amber allanite.

The DV-2 porphyry was emplaced shallower +
possibly did not create such an intense hornfels.

33 ; chl. post-dates prehnite in veins.
2 kinds ~~of~~ cpx - one greenish, one
colorless.

3500' — good photo op - veins folded pygmatically
only 2nd inclusions within
Q-KF - Tour vults —
some amygdules.

04/19/92

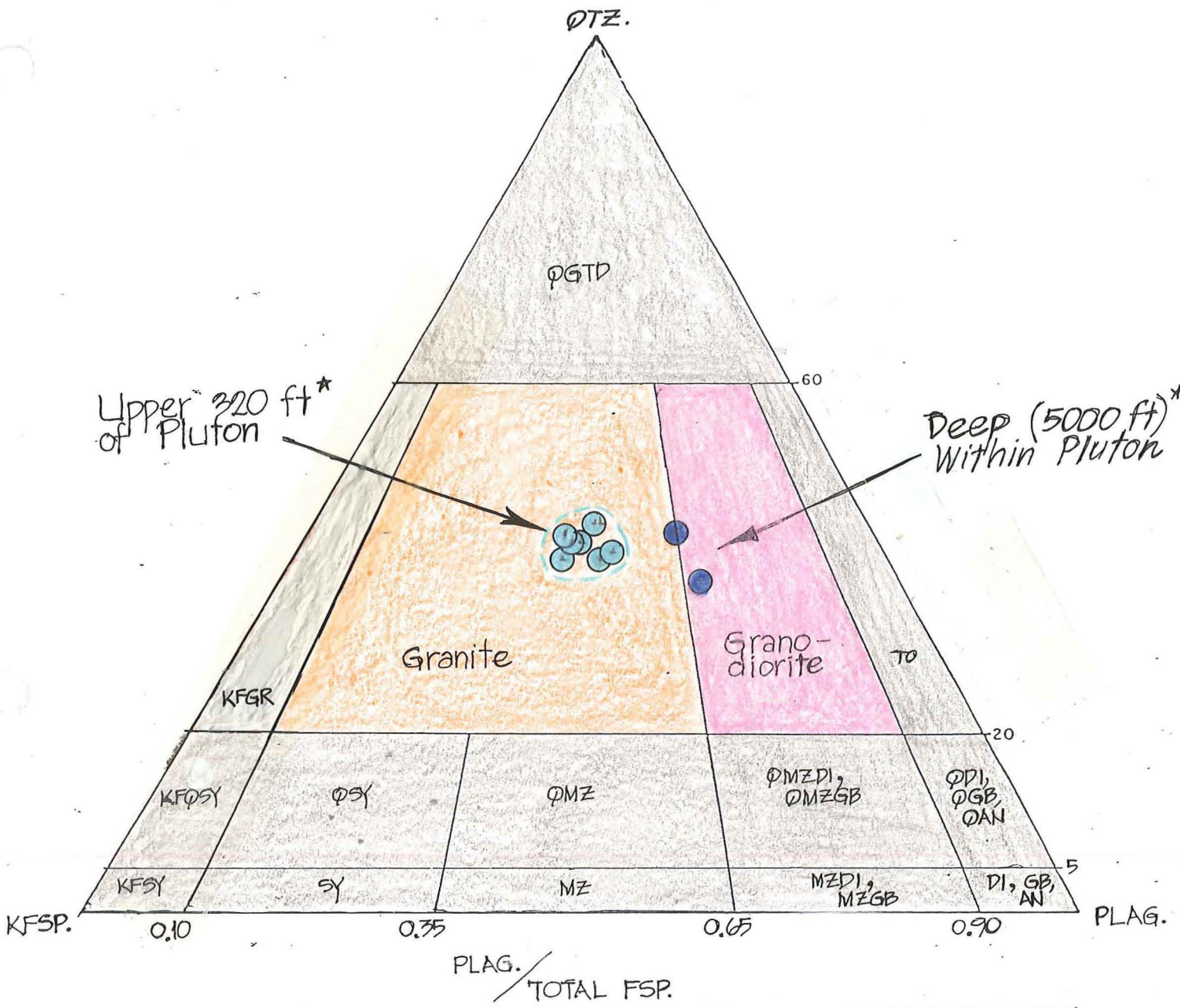
DATE

1 DV25 ST-2 Notes

2 2900' — clearly calcite (Fr) repl. by calc-silicates,
3 poss. first pxn — then actinolite
4 good granobl. rexln. of Franc. gtz

5 2600' — pluton — intense sericitization

6 2740' — great silicific., 2nd KFS, sericitization
7 bipyramidal gtz. — amygdules,
8
9
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27



DV-2, ST2: FELSITE COMPOSITIONS

* measured depths

JBH/WURI/92

ELV

2949

LAMBERTS

D&V #2 SIDETRACK #1
STANDARD SURVEY TABLE

N 402, 147.53
E 1789, 699.35

STA	MEAS. DEPTH	VERT. DEPTH	DRIFT		CUMULATIVE COORDINATES		TOTAL SEC
			***** ANGLE	BEARING	N S (-)	E W (-)	
1				S72E			
2	115	115	1.25	S72E	-0.39	1.19	1.24
3	285	285	1.75	S00E	-3.99	3.81	5.24
4	342	342	2.00	S17W	-5.83	3.53	5.86
5	482	482	4.00	S21W	-12.76	1.15	7.00
6	639	638	4.50	S23W	-23.55	-3.21	8.22
7	766	765	4.25	S36W	-31.98	-7.98	7.97
8	982	980	4.00	S30W	-45.01	-16.44	6.61
9	1170	1168	4.50	S42W	-56.28	-24.63	4.67
10	1281	1279	4.00	S69W	-60.94	-31.41	0.87
11	1343	1340	3.00	S55W	-62.72	-34.75	-1.24
12	1375	1372	1.50	S35W	-63.61	-35.64	-1.61
13	1407	1404	1.00	S34E	-64.30	-35.65	-1.29
14	1438	1435	2.25	S63E	-64.89	-34.99	-0.43
15	1472	1469	3.75	S76E	-65.51	-33.32	1.33
16	1505	1502	4.50	S64E	-66.32	-31.09	3.63
17	1537	1534	5.75	S66E	-67.53	-28.50	6.54
18	1593	1590	8.75	S64E	-70.52	-22.10	13.60
19	1680	1675	11.00	S65E	-76.94	-8.63	28.50
20	1815	1807	14.25	S69E	-88.47	18.53	57.90
21	1939	1927	14.25	S72E	-98.66	47.30	38.08
22	2062	2046	14.75	S70E	-108.69	76.42	113.50
23	2220	2199	14.75	S71E	-122.11	114.34	158.29
24	2337	2312	14.75	S70E	-132.06	142.42	187.75
25	2472	2443	14.25	S72E	-143.06	174.38	221.13
26	2599	2566	13.75	S72E	-152.56	203.60	251.39
27	2693	2657	14.00	S69E	-160.08	224.85	273.68
28	2927	2885	12.25	S75E	-176.50	275.39	326.01
29	2979	2936	10.25	N86E	-177.47	285.48	335.38
30	3074	3030	10.75	N83E	-175.81	302.72	349.82
31	3179	3133	12.00	N82E	-173.11	323.25	366.68
32	3337	3287	13.50	N84E	-168.86	357.86	395.24
33	3500	3445	14.00	N84E	-164.81	396.39	427.36
34	3625	3567	12.25	N81E	-161.11	424.53	450.47
35	3753	3692	12.25	N83E	-157.33	451.42	472.44

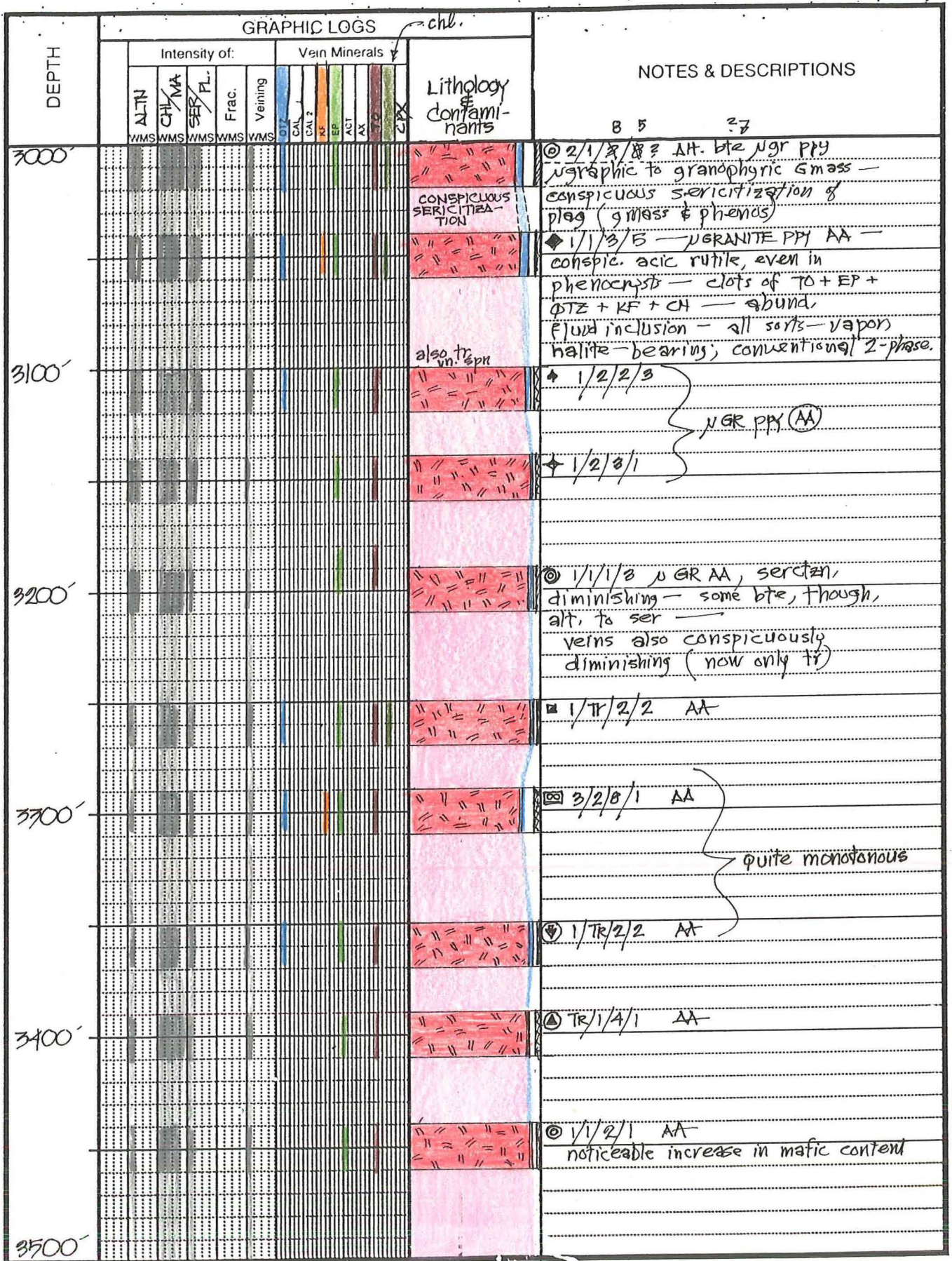
MAY 23, 1980 WEIGHTING FACTOR: 0.50

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D&V #2 SIDETRACK #1
STANDARD SURVEY TABLE

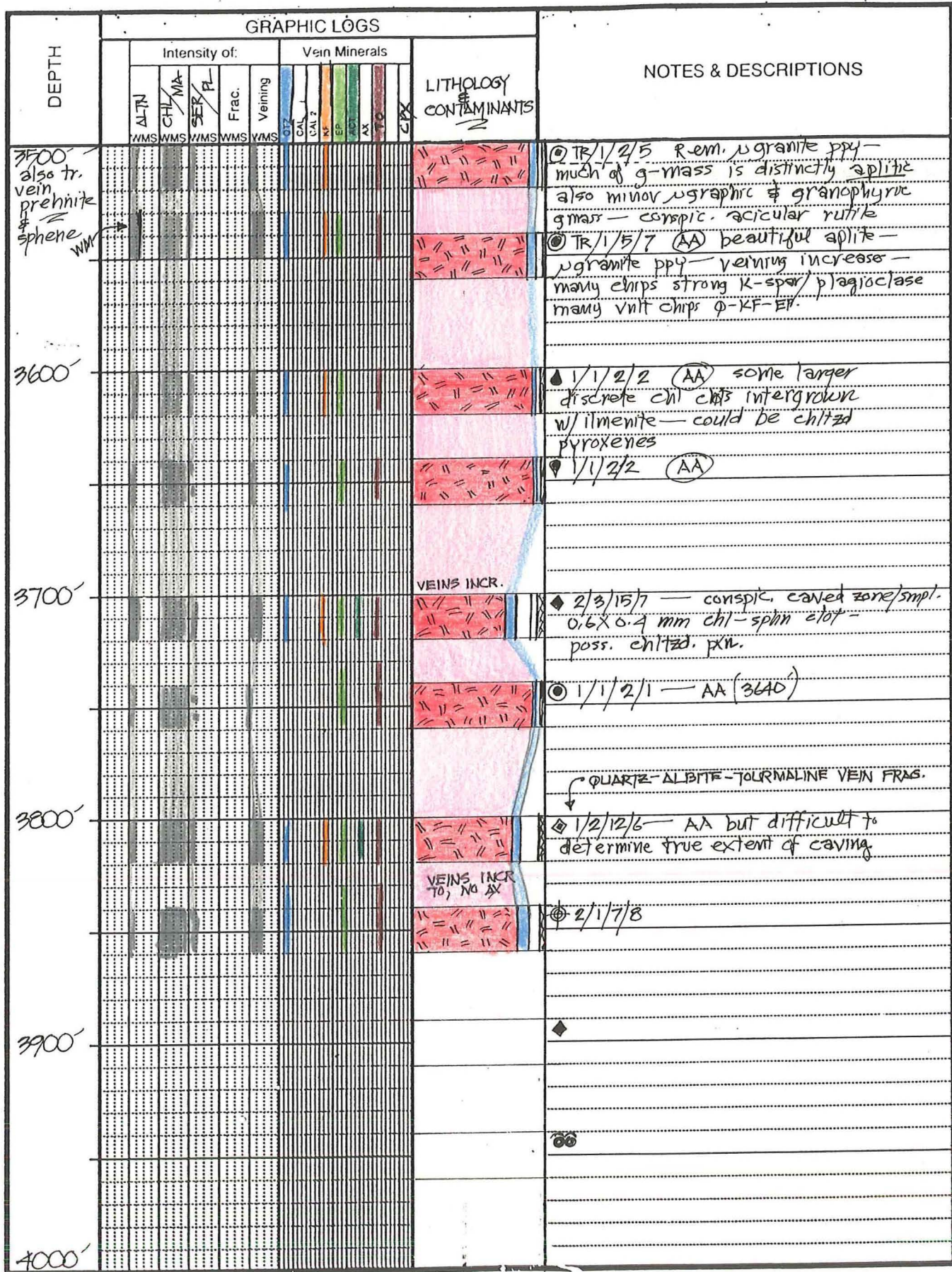
STA	MEAS. DEPTH	VERT. DEPTH	DRIIFT		CUMULATIVE COORDINATES		TOTAL SEC
			***** ANGLE	BEARING	N S(-)	E W(-)	
36	3912	3847	13.00	N81E	-152.49	485.84	500.56
37	4070	4001	13.25	N80E	-146.57	521.22	529.02
38	4282	4207	14.00	N81E	-138.33	570.48	568.64
39	4571	4487	14.00	N30E	-126.79	639.44	624.11
40	4760	4671	14.00	N78E	-118.06	684.32	659.64
41	5077	4978	14.00	N77E	-101.46	759.19	717.96
42	5325	5219	13.50	N77E	-38.20	816.63	762.44
43	5608	5494	14.50	N79E	-73.97	883.59	814.89
44	5702	5585	15.00	N79E	-69.40	907.09	833.49
45	5905	5780	16.25	N81E	-59.91	960.93	876.57
46	6108	5975	17.00	N78E	-49.32	1018.04	922.03
47	6381	6235	18.25	N87E	-38.53	1099.99	989.32
48	6796	6629	18.45	N78E	-21.48	1229.52	1095.69
49	7262	7071	18.50	N72E	16.74	1372.16	1203.69
50	7516	7313	17.00	N57E	50.08	1442.05	1249.75
51	7846	7627	18.45	N69E	95.69	1531.57	1307.37
52	8623 T.D.	8372	14.50	N52E	204.20	1723.36	1425.77

JUN 16, 1980 WEIGHTING FACTOR: 0.50



Borehole No. PV-25, ST1
 Depth Interval 3000-3500'

Logged By JH
 Date _____



< 1% VWK
 1-5% WK
 > 5-15% M
 > 15-30% S
 > 30% VS

Borehole No. DI-25, ST 1
 Depth Interval 3500-4000

Logged By JBH
 Date _____

DEPTH	GRAPHIC LOGS													LITHOLOGY & CONTAMINANTS	NOTES & DESCRIPTIONS
	Intensity of:					Vein Minerals					LITHOLOGY & CONTAMINANTS				
	ALTN WMS	CHY WMS	50% pl. WMS	Veining WMS	Veining WMS	QZ CAL	PL CAL	AN CAL	EP CAL	ACT CAL		AX CAL	TO CAL		
5000														NS	5000-5010
5100															5040-60 2/3/2/5 microgranite ppy(3) w/uxln aplite to micrographic to granophytic mass - prop. phenos of qtz, olig, KfSP - acicular rutile (tr) in matrix & phenocryst frags. avg. matrix xl size 0.05-0.10 mm
															2/2/3/5 NSR w/ rutile, AA
															1/2/3/5 - AA
5200															1/5/5/6 - AA
															3/5/6/7 - AA NO obvious change p-KF-TOUR vein fragment. PROB. CHL PSEUDOMORPH/OPXN
5300															1/4/3/4 MICROGRANITE PPY as above
															1/3/3/4 AA
5400															1/3/3/9 7% HBL ANDESITE (MICRODIORITE) "decussate" texture # only tr hbl which/along w/ plag, is mod.
															tourmalinized - all smaller matrics chld/actinolitized
															act/chl plag (raggedy)
															REMAIN PER GB
															3/6/3/5
5500															

Borehole No. DV-25
 Depth Interval 5000-5500

Logged By JH
 Date _____

DRAMATIC
DECREASE
IN CHIP
SIZE

DEPTH	GRAPHIC LOGS														Lith. & Contam.	NOTES & DESCRIPTIONS	
	Intensity of:					Vein Minerals					Frac.	Veining	Lith. & Contam.				
	ALT	CHL	MP	SP	FR	QZ	CAL	CAL?	Z	EP				AST			AX
5500'																	① 5500-20 1/6 ² /3 ³
																	② 2/5/3/4 — rem. GR AA EXTR. FINE CUTTINGS
5600'																	③ 2/5/2/4
																	④ 1/6/3/2
																	} REM. UGRNT (PULVERIZED)
5700'																	⑤ 1/8/3/2
																	⑥ TR/6/2/1
																	} ESS. FRESH GR
5800'																	⑦ TR/4/2/1
																	⑧ TR/6/3/1 — AVG. CHIP SIZE ONLY W 25U!
																	} AA (FRESH GRANITE)
5900'																	⑨ TR/5/5/TR
																	⑩ TR/6/3/1
6000'																	

Borehole No. _____

Depth Interval _____

Logged By _____

Date _____

DEPTH	GRAPHIC LOGS													LITH & CONTAMINANTS	NOTES & DESCRIPTIONS		
	Intensity of:				Vein Minerals					Veinings	CLX						
	ALU	CH/MA	SEPR	FLUC	OTZ	CAI	CAI 2	EP	ACT			AS	TR				
WMS	WMS	WMS	WMS	WMS	WMS	WMS	WMS	WMS	WMS	WMS	WMS						
6000'																	2/6/1/2 REM. disagg bte granite w/tr acic. rutile — rock is essentially fresh
																	2/5/3/3 AA (FRESH GRANITE)
6100'																	2/5/2/3 AA
																	1/4/2/2 AA
200 6150'																	1/3/1/1 AA less contam.
																	TR/2/2/2 AA conspicuously free of veins
300 6250'																	1/1/2/5 TR/4/1/2
																	2/4/30/2 ALL ESS. FRESH & UNVEINED GRANITE.
6400'																	1/8/30/1
																	1/6/7/1
6500'																	

Borehole No. DV-25 ST1

Depth Interval _____

Logged By JH

Date _____

DEPTH	GRAPHIC LOGS													LITH & CONT.	NOTES & DESCRIPTIONS	
	Intensity of:					Vein Minerals										
	NTR	ch/mof	scr/pl.	Frac.	Veinng	QTZ	CAL	CAI	AN	EP	ACT	AN	TP			CPX
6500																© 1/6/3/3 disagg. vsh. bte granite or granite ppy w/ tr. early magmatic? acicular rutile; essentially unalt. minor tourmaline veining.
6600																© 1/5/2/2 (AA)
																© R/3/2/1 } (AA)
																© 1/4/2/1 }
6700																© R/5/3/1 }
																© 1/4/2/3 }
6800																© 1/3/2/4 }
6820 TP															Tour. veins increasing	FRESH U GR W/ RUTILE (AA) MONOTONOUSLY UNALT, BUT A FEW TOUR VEINS OR VUG-FILLINGS

Borehole No. DV-25, ST-1

Depth Interval 6500-6820'

Logged By JBT

Date _____

D&V-25 ST2
STANDARD SURVEY TABLE

STA	MEAS. DEPTH	VERT. DEPTH	DRIFT *****		CUMULATIVE COORDINATES		TOTAL SEC
			ANGLE	BEARING	N-S(-)	E-W(-)	
1	0	0	0.00	N21E	0	0	0
2	109	109	1.00	N21E	1	0	1
3	240	240	1.00	S53W	2	-1	0
4	287	287	1.50	N05W	3	-2	0
5	313	313	1.25	N05E	3	-2	0
6	373	373	1.25	N78E	4	-2	2
7	532	532	1.75	N78E	5	3	5
8	594	594	1.75	N80E	6	4	7
9	658	658	1.50	S80E	6	6	8
10	689	689	1.25	N85E	5	7	9
11	720	720	1.50	N88E	6	8	9
12	809	809	2.75	S77E	5	11	12
13	903	903	2.75	S78E	4	15	14
14	966	966	2.75	S75E	4	18	16
15	1037	1036	3.75	S78E	3	22	19
16	1100	1099	3.75	S74E	2	26	21
17	1272	1271	5.00	S85E	-1	39	29
18	1367	1365	6.50	S89E	-1	49	36
19	1494	1491	7.75	S88E	-2	64	48
20	1621	1617	9.00	S89E	-2	83	62
21	1744	1738	11.75	N89E	-2	105	79
22	1895	1886	12.00	N84E	0	136	104
23	1989	1978	12.00	N86E	1	155	120
24	2114	2100	12.75	N85E	4	182	142
25	2207	2191	12.75	N86E	5	203	159
26	2249	2231	14.25	N83E	6	212	167
27	2316	2296	14.00	N67E	10	228	181
28	2348	2327	15.00	N63E	14	235	189
29	2380	2358	16.50	N60E	18	243	198
30	2450	2425	19.50	N53E	30	261	219
31	2514	2485	20.50	N52E	43	279	241
32	2615	2580	20.00	N51E	65	306	276
33	2711	2669	21.00	N51E	86	332	310
34	2835	2785	21.45	N51E	114	367	354
35	2997	2935	23.00	N52E	132	415	416

APR 27, 1988 WEIGHTING FACTOR: 0.50
SECTION PROJECTED TO AZIMUTH N50E

D&V-25 ST2
STANDARD SURVEY TABLE

STA	MEAS. DEPTH	VERT. DEPTH	DRIFT *****		CUMULATIVE COORDINATES		TOTAL SEC
			ANGLE	BEARING	N S(-)	E W(-)	
36	3220	3139	25.00	N53E	208	487	506
37	3411	3311	26.50	N51E	259	552	589
38	3511	3400	26.75	N49E	288	587	634
39	3670	3542	26.50	N49E	334	640	705
40	3894	3743	26.00	N48E	400	714	804
41	4117	3944	25.50	N47E	465	786	901
42	4307	4116	25.00	N45E	522	844	982
43	4537	4325	24.25	N44E	590	911	1077
44	4760	4529	23.25	N46E	654	975	1167
45	4919	4676	22.50	N48E	696	1020	1229
46	5046	4793	22.50	N48E	728	1056	1277
47	5174	4911	23.25	N46E	762	1093	1327
48	5397	5116	23.50	N49E	822	1158	1415
49	5556	5261	24.00	N51E	863	1207	1479
50	5721	5410	26.75	N53E	907	1263	1550
51	5816	5494	28.25	N54E	933	1298	1594
52	5942	5605	29.00	N53E	969	1346	1654
53	6070	5717	28.25	N55E	1005	1396	1715
54	6197	5830	27.25	N56E	1038	1445	1774
55	6419	6028	26.25	N54E	1095	1527	1874
56	6611	6201	25.00	N53E	1145	1593	1956
57	6768	6344	24.25	N50E	1186	1645	2022
58	6849	6418	24.75	N50E	1207	1670	2055
APR 27, 1988			WEIGHTING FACTOR: 0.50				
SECTION PROJECTED TO AZIMUTH N50E							

D&V-25 ST2
MARKER COORDINATE REPORT

E-LOG MARKER NAME	DEPTHS			COORDINATES		LAMBERT COORDS	
	MEAS	VERT	SUBSEA	NS	EW	X	Y
10#	2995	2933	1133	152	414	414	152
60#	5455	5109	2103	837	1176	1176	837

FEB 22, 1988 WEIGHTING FACTOR: 0.50
SECTION PROJECTED TO AZIMUTH N50E

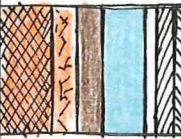
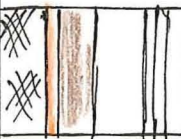



9

DEPTH	GRAPHIC LOGS														LITH.	NOTES & DESCRIPTIONS
	Intensity of:					Vein Minerals										
	WMS	WMS	WMS	WMS	WMS	OPX	CL	EP	ACT	AX	TO	Cpx				
10,050																SEE PREVIOUS PAGE
10,100																<p>CHIP PREDDM. GRAIN SIZE 5-100μ (SMALL) & 15% rust & 15% vn. frags.</p> <p>◆ 4 steel, 3 dk. opaque, tr. py, 15% caved frags; 15% hnf/sc. MGW, 5% hnf/sc. ARGIL.; poss. up to 10% unkn. granitic intrusive; remainder q-BTE-PLAG ± OPX, ILM, TOUR Hornbl. w/ well-devel. granoblastic texture. ; some tour. clearly (repl. w/ AX); some tour. occ. as porphyroblasts.</p>
10,150																<p>◆ → 2 steel, 3 rust, 2 dk. op. 4 cvd. frags. ; 10 hnf/s AA, 7 vn. frags; remainder disagg. intrusive - granitic, abund. myrmekite - v. low mafic (opx-bte) - tr. acicular rutile; plag "cloudy", partly repl. w/ tourm, chl, tr. ser. - also some perthite. - also, some aplitic-textured chips (anhedral - ngranular - some euh. tour. chips, both indigo & brown.</p>
10,200																<p>◆ → 4 steel, 8 rust, 2 dk opaque 10 caved; 8 vn. frags; remainder intrusive, AA; common tour. repl. plagioclase</p>
10,250																<p>◆ → 5 steel, 15 rust, 2 dk. op., 10 caved frags, remainder GRAN as above</p>
10,300																

def. K-fsp replacing diff to tall plag., but extent diff to tall

Borehole No. DX-84
 Depth Interval _____

Logged By JH
 Date _____

DEPTH	GRAPHIC LOGS											LITH	NOTES & DESCRIPTIONS					
	Intensity of:					Vein Minerals												
	ALN	CHL	maf	SALISS.	PLAG.	Frac.	Veining	QUARTZ	CAL	CL. 2	EP			ACT	AX	TO	CRX	
WMS	WMS	WMS	WMS	WMS	WMS	WMS	WMS	WMS	WMS	WMS	WMS	WMS	WMS	WMS	WMS			
9800																		
9850																	 <p> ♦ 9 rust, 6 steel, 3 crd., 21 vfr rem. mixture of mafic arg., lt maf & bte-gtz-plag-kf opxn - hornfels (1 ± four) - vfrs are four ± gtz, kd, chl, act, ep & act ± gtz, kd, chl, ep. & FeTx ± ep. — poss. some vfr. This sample. Rx is either 2, vx or is heavily stockwork veined. </p>	
9900																	 <p> ♣ (AA) super - about unit frags </p>	
9950																	 <p> ○ AA </p>	
10,000																	 <p> ○ </p>	
10,050																	 <p> ◻ </p>	

Borehole No. DX-84

Logged By HH

Depth Interval _____

Date _____

DEPTH	GRAPHIC LOGS														LITH.	NOTES & DESCRIPTIONS	
	Intensity of:					Vein Minerals											
	ALTN	CHX	maf	SALTS OF FLGS	Frac.	Veining	QZ	CL	CAI ?	NI	EP	ACT	AX	TO			CPX
10,300'																	<p>7 steel, 15 rust, 12 caved, 7 vn frags remainder disagg leucocr. granite bte-cpxh; no acic. rutile, but no apatite (> tr) either</p>
10,350'																	<p>5 steel, 13 rust, 12 caved, 7 vn frag. rem GR, AA - aplitic texture common dof GR not the more mafic GRD which occurs in the south.</p>
10,400'																	<p>5 steel, 15 rust, 15 caved frags, 10 vein frags. → rem. GRANITE, AA FeFx becomes more common Really very little biotite GRANITE APPEARS QUITE FRESH IN SPITE OF THE ABUNDANT VEIN FRAGS.</p>
10,450'																	<p>3 steel, 11 rust, 3 dk opaque prob. mostly magnetite scale or corrosion, 5 obvious caved frags; CONSPICUOUS TOURMALINE. - 10% veinlet frags</p>
10,500'																	<p>3 steel, 11 rust, 3 dof, 3 obvious cave; 9 veinlet frags - remainder GRNT, as above - tr. acic. rutile, but also tr. green hbl. - poss. dikes of GRD in here.</p>
10,550'																	

Borehole No. DX-84
 Depth Interval _____

0 1000
 0 1000
 0 1000

Logged By JH
 Date _____

DEPTH	GRAPHIC LOGS														LITH.	NOTES & DESCRIPTIONS	
	Intensity of:					Vein Minerals											
	ALT	CHL	maf	SALTS	Frac.	Veining	QTZ	CAL	CAL?	Kf	EP	ACT	AX	TO			Cpx
10,550																	<p>SEE PREVIOUS PAGE</p> <p>7 steel, 11 rust, 2 dk opaque, 15 caved frags. 5% vein frags; remainder dis aggr granite, AA; abund, large (< 25µ) conspicuous fluid inclusions, AA all app. 2nd</p>
10,600																	<p>DEFINITE INCREASE IN BTE - new rx? - 2 steel, 6 rust, 4 caved; remainder GRANITE, poss w/ minor GRD - def a tr. of green hbl, but no apatite (nor rutile) OPX partly repl. w/ green-brown Uxln (2nd bte) - probably deuteric BTE SHREDDY, FRESH</p>
10,650																	<p>5 steel, 11 rust, 13 caved REMAINDER GRANITE, AA, less bte abund. tour. & FeTx, but many of these chips are conspic. large & could be caved (or eroded) fragments.</p>
10,700																	<p>4 vein fragments 5 steel, 9 rust, 7 caved; remainder MIXED GRANITE & GRANODIORITE, definite hbl & acicular apatite; also Cpx (after OPX?); also some Uxln 2nd bte (green-brown) after OPX</p>
10,750																	<p>4% magnetite, 3 steel, 10 rust, 6 caved; remainder fairly fresh grd, AA - only 3% vein frags still obvious FeTx repl. tourmaline</p>
10,800																	

Borehole No. DX-8A
 Depth Interval _____

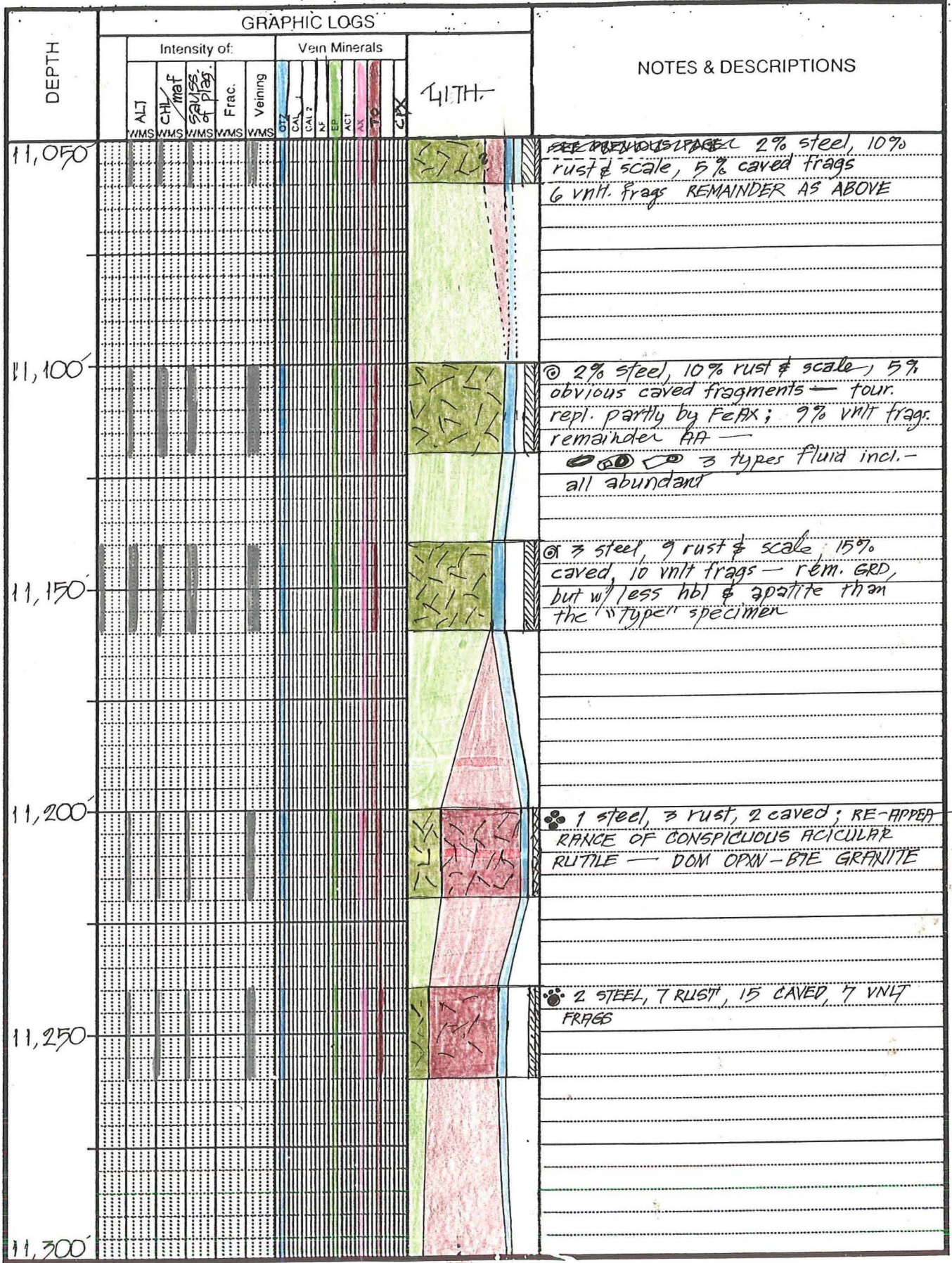
10,550
10,600
10,650
10,700
10,750
10,800

Logged By JH
 Date _____

DEPTH	GRAPHIC LOGS														LITH.	NOTES & DESCRIPTIONS			
	KFS/PLAG.	Intensity of:					Vein Minerals												
		ALT.	CHL	maf	SALUS	of PLAG.	Frac.	Veining	OZ	CAL	CAL 2	NI	EP	ACT			AX	TO	OPX
10,800																			<p>10,800-20: 2 steel, 18 rust (incl. magnetite (?) scale or corrosion prod; 20% obvious caved frags., but a few which are anom. large appear to be indigenous Euh.-GRANULAR GRD — this rock app. quite fresh — few vnt. frags.</p> <p>10 VEINLET FRAGS.</p>
10,850																			<p>ONLY 3 RUST, 3 STEEL, 9 CAVED BEAUTIFUL SAMPLE! smpl represents an intensely veined & altered OPXN-BTE HBL GRD.; RX is euh-granular but fsp edges typically corroded-appearing — lath-like plag. is common; HBL fresh, lt-dark brownish-grn; OPX & HBL alt. to (bte) — 0.2% primary sphene; TOUR. as vein mineral & repl. plag (euh both cases) DEFINITELY WK-MOD KFS/PLAG.</p>
10,900																			<p>5 steel, 15 rust, 10 obvious caved fragments; remainder GRD, as above</p>
10,950																			<p>2 steel, 8 rust, 12 obvious caved frags; 7 vnt frags, as above, probable re-appearance of GRANITE (n 20% ??) remainder GRD, AA</p>
11,000																			<p>2 steel, 7 rust, 5 caved, 6 veinlet frags</p>
11,050																			

Borehole No. DX-84
 Depth Interval _____

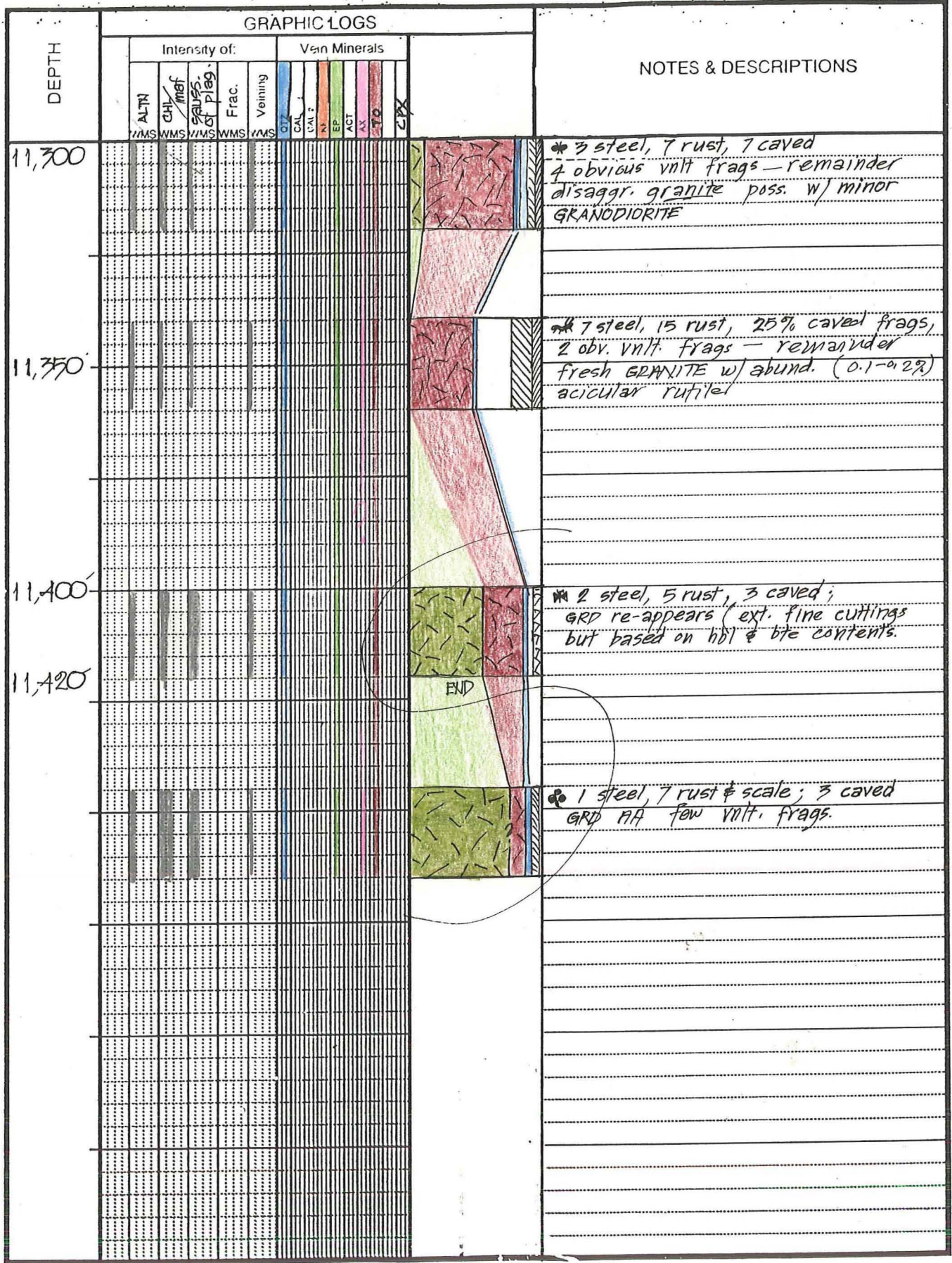
Logged By JH
 Date _____



Borehole No. DX-84
 Depth Interval _____

0 1 2 3 4 5 6 7 8 9 10
 11 12 13 14 15 16 17 18 19 20
 21 22 23 24 25 26 27 28 29 30
 31 32 33 34 35 36 37 38 39 40
 41 42 43 44 45 46 47 48 49 50

Logged By JH
 Date _____



REVERSE THESE

Borehole No. DX-84
 Depth Interval _____

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

Logged By JH
 Date _____

DX-84 ST1
STANDARD SURVEY TABLE

STA	MEAS. DEPTH	VERT. DEPTH	DRIFT		CUMULATIVE COORDINATES		TOTAL SEC
			***** ANGLE	BEARING	N S (-)	E W (-)	
1	0	0	0.00	S32W	0	0	0
2	155	155	1.00	S32W	-1	-1	-1
3	228	228	1.00	S15W	-2	-1	-1
4	320	320	1.25	S13E	-4	-1	-3
5	380	380	1.00	S03E	-5	-1	-4
6	481	481	0.00	S03E	-6	-1	-4
7	575	575	0.75	S77W	-7	-1	-5
8	637	637	0.75	N80W	-7	-2	-4
9	793	793	0.25	N12E	-6	-3	-3
10	886	886	0.75	S88E	-5	-2	-3
11	980	980	0.75	S33E	-6	-1	-4
12	1075	1075	0.75	S02W	-7	-1	-5
13	1169	1169	0.75	N57E	-7	0	-6
14	1263	1263	1.00	N40E	-7	1	-6
15	1357	1357	1.00	N35E	-5	2	-6
16	1451	1451	1.25	N54E	-4	3	-5
17	1513	1513	1.25	N42E	-3	4	-5
18	1606	1606	1.25	N48E	-2	6	-5
19	1732	1732	2.00	N45E	1	9	-4
20	1825	1825	2.25	N56E	3	11	-4
21	1921	1921	2.00	N58E	5	14	-4
22	2015	2015	1.75	N72E	6	17	-5
23	2110	2110	1.75	N81E	7	20	-6
24	2267	2267	1.00	S63E	6	23	-8
25	2425	2424	1.00	S15E	4	25	-11
26	2580	2579	1.00	S23W	2	25	-13
27	2735	2734	1.00	S24W	-1	24	-14
28	2891	2890	1.00	S62W	-3	22	-15
29	3047	3046	1.50	S57W	-5	19	-15
30	3204	3203	1.75	S62W	-7	15	-14
31	3360	3359	2.00	S63W	-9	11	-14
32	3516	3515	2.00	S64W	-12	6	-13
33	3535	3534	2.25	S85W	-12	5	-13
34	3563	3562	3.00	N75W	-12	4	-12
35	3595	3594	4.00	N69W	-11	2	-10

FEB 27, 1987 WEIGHTING FACTOR: 0.50
SECTION PROJECTED TO AZIMUTH N35W

DX-84 ST1
STANDARD SURVEY TABLE

STA	MEAS. DEPTH	VERT. DEPTH	DRIFT		CUMULATIVE COORDINATES		TOTAL SEC
			***** ANGLE	BEARING	N S(-)	E W(-)	
36	3627	3626	4.75	N51W	-10	0	-8
37	3658	3657	6.00	N42W	-8	-2	-5
38	3718	3716	7.50	N37W	-2	-7	2
39	3807	3804	9.00	N32W	8	-14	15
40	3901	3897	10.25	N32W	21	-22	30
41	3994	3988	12.00	N32W	37	-32	48
42	4087	4079	13.50	N34W	54	-43	69
43	4198	4187	14.25	N32W	76	-57	95
44	4323	4308	14.00	N31W	102	-73	126
45	4448	4429	13.75	N30W	128	-88	156
46	4574	4552	14.25	N30W	154	-104	186
47	4698	4672	14.25	N32W	181	-119	216
48	4823	4793	14.75	N31W	207	-136	248
49	4949	4915	14.75	N30W	235	-152	280
50	5074	5036	14.25	N30W	262	-168	311
51	5168	5127	14.00	N32W	282	-180	334
52	5244	5201	12.00	N52W	294	-191	351
53	5276	5232	12.00	N58W	298	-196	357
54	5375	5329	14.00	N44W	312	-214	378
55	5430	5382	14.00	N39W	322	-223	392
56	5461	5412	13.50	N38W	328	-227	399
57	5546	5495	14.25	N43W	343	-240	419
58	5703	5646	15.50	N39W	374	-267	459
59	5859	5797	15.25	N37W	406	-292	501
60	6046	5976	17.25	N33W	449	-322	553
61	6140	6065	18.00	N39W	472	-339	581
62	6235	6156	18.00	N38W	495	-357	611
63	6360	6275	18.25	N38W	526	-381	649
64	6485	6394	18.00	N37W	557	-405	688
65	6610	6513	18.00	N37W	588	-428	727
66	6793	6692	17.50	N38W	633	-463	784
67	6889	6779	17.50	N39W	655	-480	811
68	7013	6897	17.75	N38W	684	-503	849
69	7168	7044	18.25	N38W	722	-533	897
70	7326	7194	18.50	N39W	761	-564	947

FEB 27, 1987 WEIGHTING FACTOR: 0.50
SECTION PROJECTED TO AZIMUTH N35W

DX-84 ST1
STANDARD SURVEY TABLE

STA	MEAS. DEPTH	VERT. DEPTH	DRIFT		CUMULATIVE COORDINATES		TOTAL SEC
			***** ANGLE	BEARING	N S(-)	E W(-)	
71	7482	7342	19.75	N39W	800	-596	998
72	7577	7431	19.25	N39W	825	-616	1029
73	7672	7521	19.00	N40W	849	-636	1060
74	7797	7639	19.75	N38W	881	-662	1102
75	7923	7757	19.50	N37W	915	-688	1144
76	8057	7884	19.50	N37W	951	-715	1189
77	8173	7993	19.75	N40W	981	-739	1227
78	8330	8141	20.00	N40W	1022	-773	1281
79	8486	8287	20.00	N41W	1062	-808	1334
80	8705	8494	19.00	N43W	1117	-857	1406
81	8863	8643	18.50	N45W	1153	-892	1456
82	9019	8791	18.75	N47W	1188	-928	1505
83	9143	8909	18.75	N47W	1215	-957	1544
84	9365	9119	18.50	N47W	1263	-1099	1614
85	9567	9311	17.50	N41W	1308	-1052	1675
86	9795	9528	19.00	N39W	1363	-1098	1746
87	9952	9677	16.50	N37W	1401	-1128	1794
88	10449	10156	14.25	N32W	1509	-1202	1926
89	10606	10309	13.50	N32W	1541	-1222	1964

FEB 27, 1987 WEIGHTING FACTOR: 0.50
SECTION PROJECTED TO AZIMUTH N35W

FF92-32, ST2

MINERALOGY, APPROX. WT.% (or) RELATIVE ABUNDANCE

SAMPLE NO.

	OLIARZ PLAG.	KFSP.	CALCITE	CPXN / OPAW	ACT. / HIR	PYRITE	MAGNETITE	SPHENE / HELVIGITE	ALITE	BIOTITE	CHLORITE	TALC	PYRONT	EPIDOTE	PREHNITE	TOLRMAINE	FEAX	TRUST / CANE	OPAQUES / STEEL	ZL CONT.		
8600-8620'	18	20	10	2/6	3	2	3	4	17	10			2		1	-		3/2	3/1	5	7	✓ for sulfides (Co?)
8640-8660'	23	25	11	3/4	5		3	3	12	7	Tr		1		Tr			10	3/1	5	12	
8700-8720'	21	24	8	8/4	6		2	2	15	(5)	2		1		Tr						3	1 tremolite
8740-8760'	22	24	8	8/4	7		2	3	13	(4)	(4)		1		Tr	Tr					3	Tr "
8800-8820' ^{hmf6}	17	29	3	1/0	4/2		3	3	17	(2)	3		1		Tr						5-1	tr/op/
8840-8860'	(13)	30	14	5/8	3		2	2	14	(2)	3		1		Tr			3	3/1	2	7	1 tremolite ^{Tr gnt}
8900-8920'	31	23	22	2/3	2		1	1	8	1	1		3/4		1	X		10	3/2	1	15	
8940-8960'	31	26	19	1/2	3/2		7	1	5	1	-		5/6		-	-		5	3/1	4	9	Tr. garnet ^{ABUN}
9000-9020' ^{50% dikes}							4						6/7					23	3/2		23	
9040-9060'							3						2					5	3/TE		8	
9100-9120' ⁽³⁵⁾							2						2					3	2/TE		5	
							2						2					4	1/TE		6	

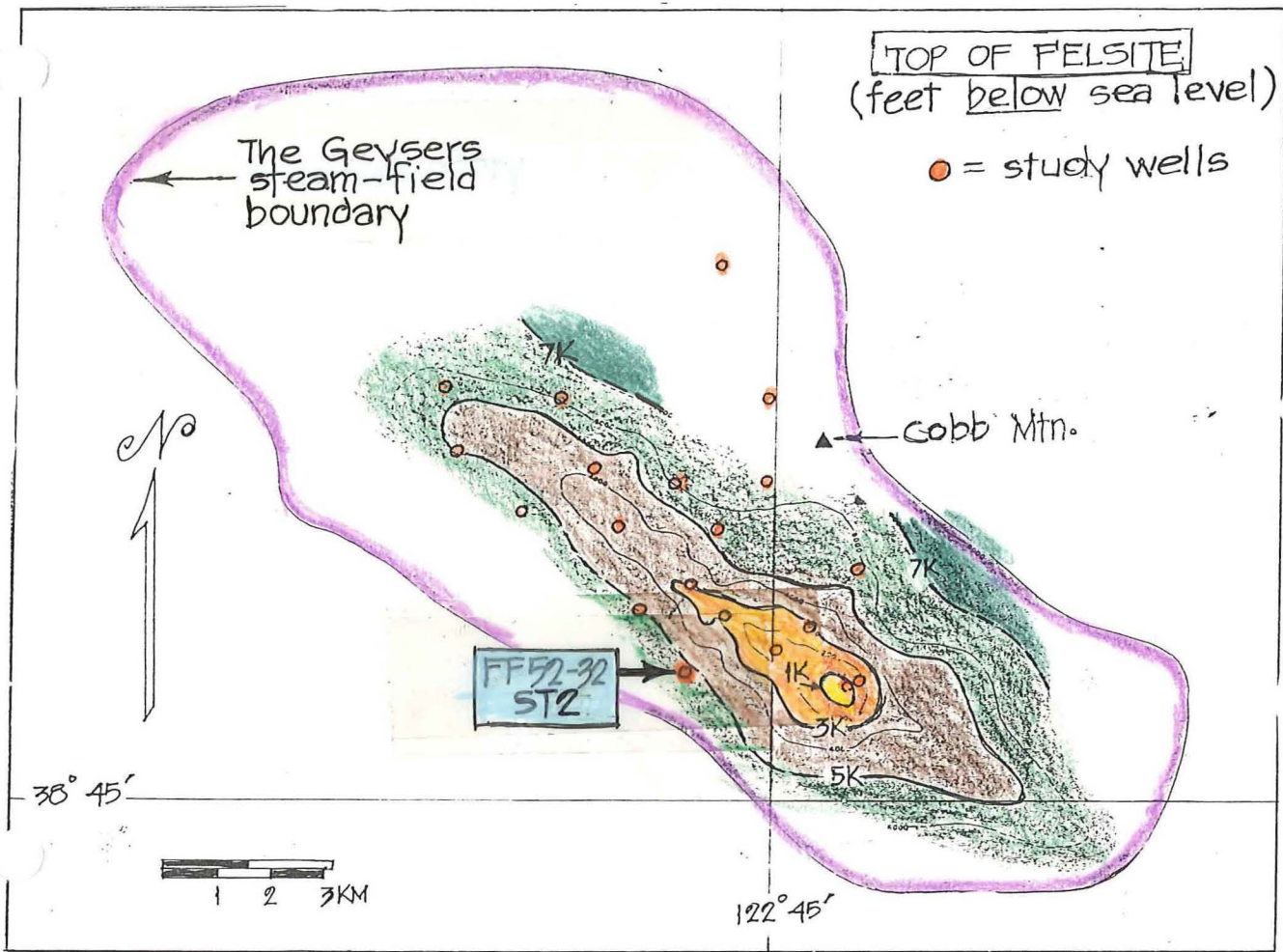
MM = PREDOMINANT M = MAJOR m = MINOR Tr = TRACE ? = TENTATIVE IDENTIFICATION

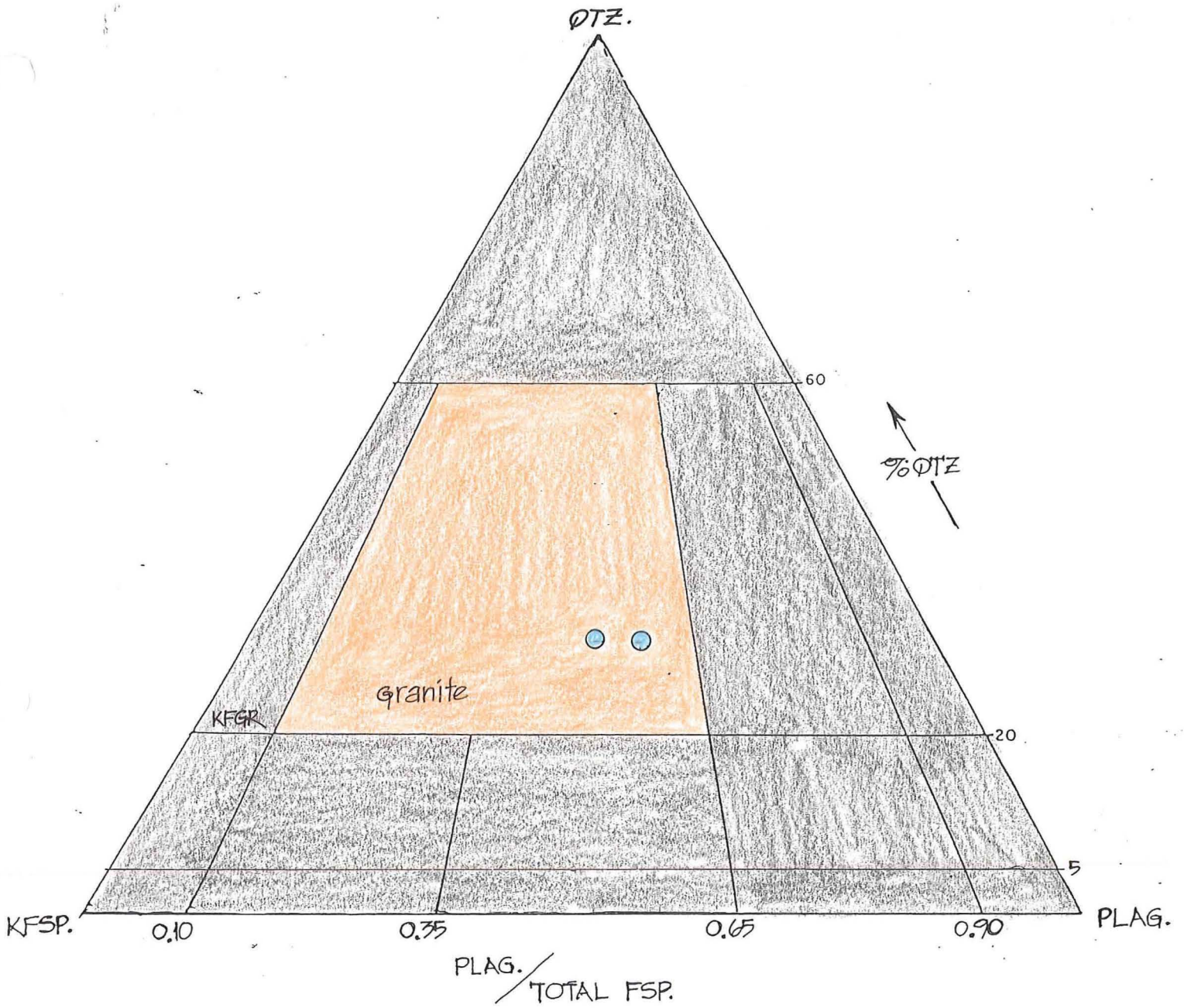


SUMMARY OF X-RAY DIFFRACTION ANALYSIS
UNIVERSITY OF UTAH RESEARCH INSTITUTE, EARTH SCIENCE LABORATORY

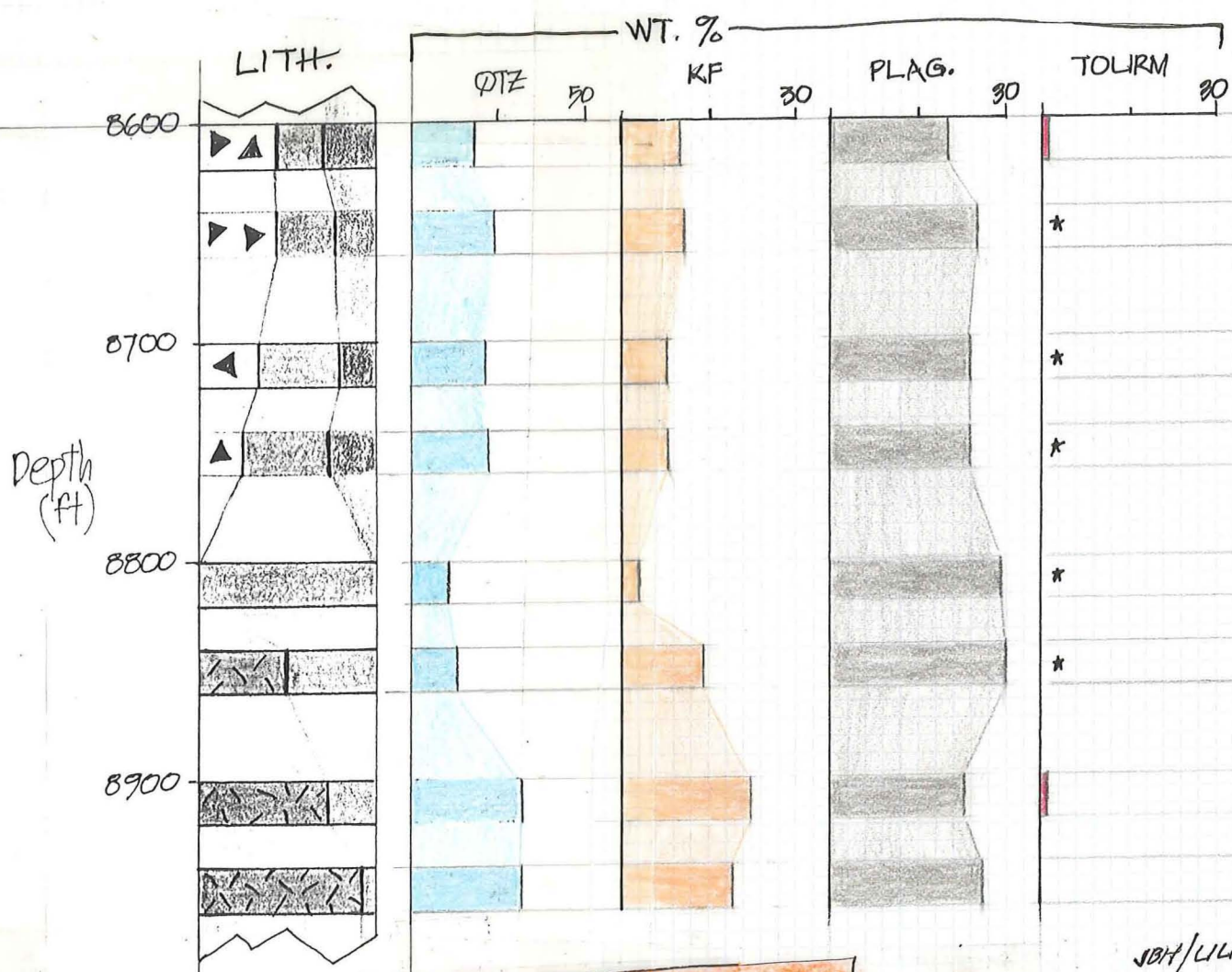
FF92-32, ST-2

XRD





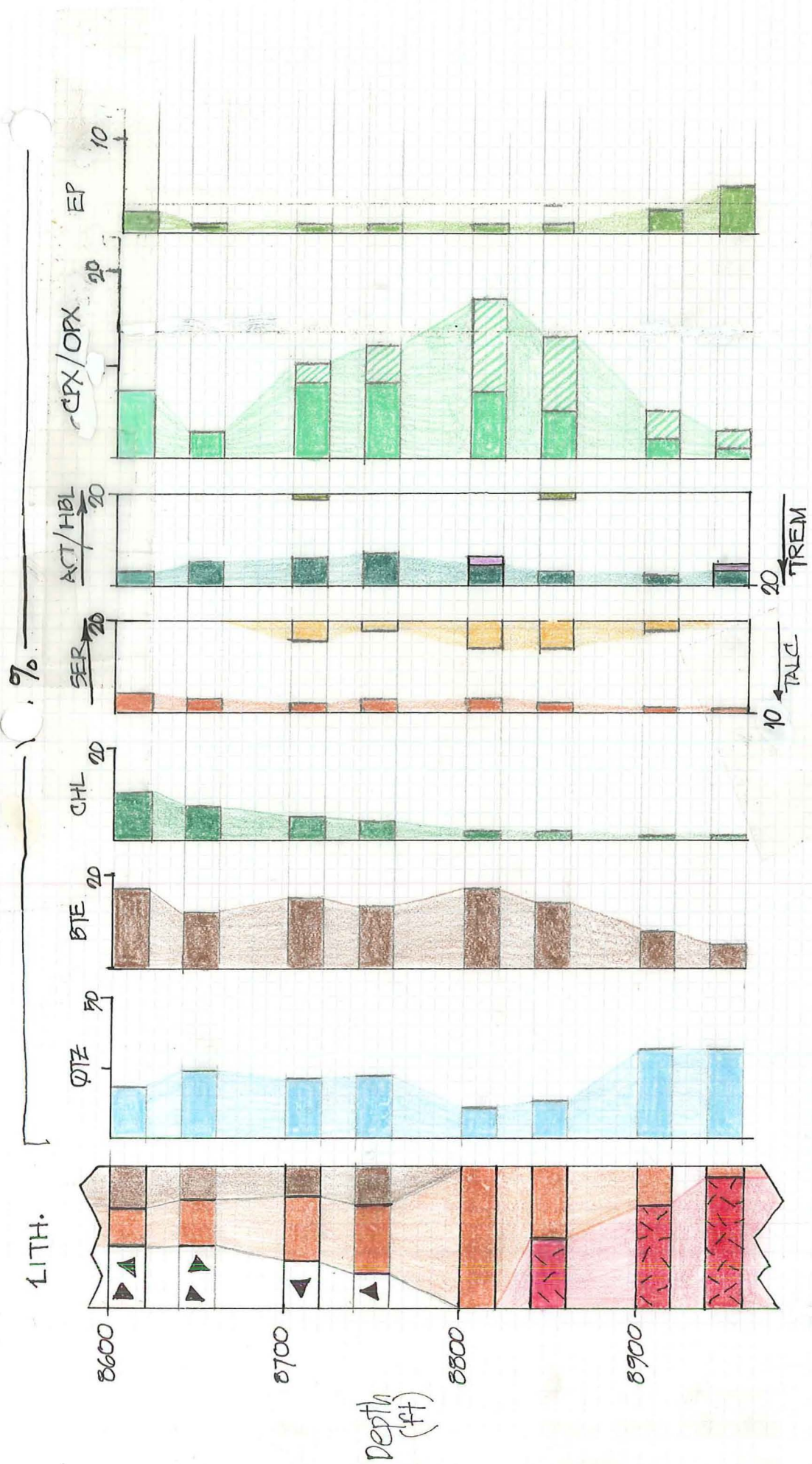
FF92-92-RD2 FELSITE COMPOSITIONS



FF 52-32, ST2

FELSITE CONTACT: MINERALOGY

SBH/LUKI/92



FF52-32, 512

FELSITE CONTACT: MINERALOGY

Petrographic Summary

Sample Identification Geysers FF 52-32 RD 8600'	Petrographer/Date of Examination JH
Rock Type ① vbx, probably hydrothermal bx — 100% ⁴⁵ OVER vnit. fragments — 5 ② bte - qtz - oliv. - cpxn - <u>knf</u> ls — 25% hornfelsic <u>ARGILLITE</u> → 15% (could include some vxn. rock flour) knf/lsc. <u>MGW</u> — 10% 2% — knf/lsc. metabasalt or meta-andesite.	
Mineralization	
Alteration/Metamorphism K-spar flooding locally intense — some pcs. adj. to Kfsp vnits. (early [#] late) bte ptly replaces <u>some</u> orthopyroxn. wk. <u>sericitization</u> of bte ("bleaching") :	
Fluid Inclusions	Porosity Summary NA
Interpreted Paragenesis of Vein- and Vug-Filling Minerals	
[vxn green bte. post-dates brown bte.] CHL-KFSP \varnothing / PL / [ACT] / bte / chl - leuc QTZ / SPHENE / chl / Kfsp	CHL <hr/> PLAG / qtz / bte — chl <hr/> EP ^{CHL} / qtz — leuc <hr/> ACT. <hr/> @ BTE / qtz / kf / tour. <hr/> BTE / qtz / kf / allanite
Notes, Miscellaneous some of the hydroth. bx shows great fluid-streaming textures. there are a few obvious relict Franciscan veins consisting almost entirely of quartz which has been granophyrically relict.	

SUMMARY

Sample Identification FF5233 RD 8600' (Geyser)	Petrographer/Date of Examination JBH
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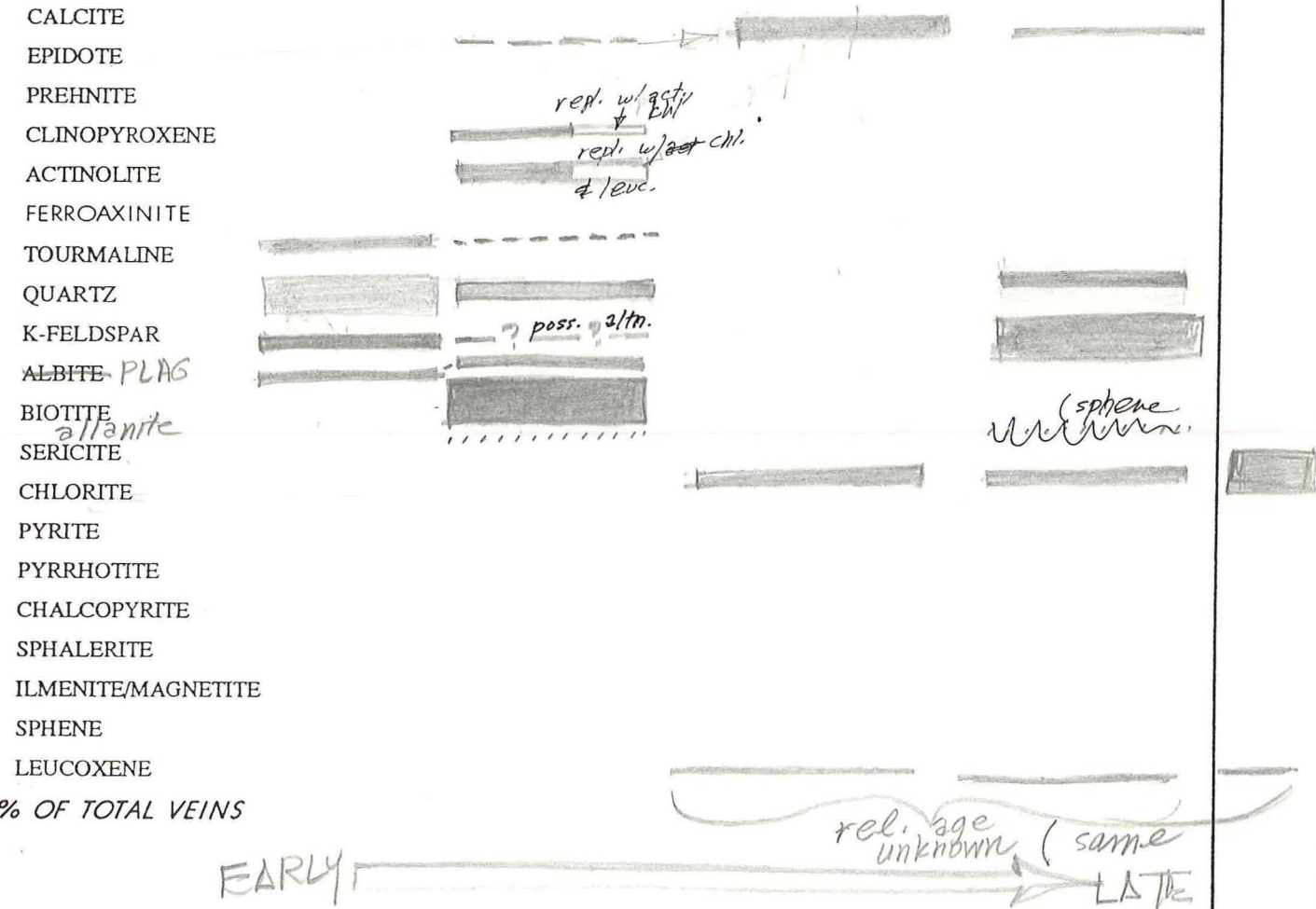
Rock Type see other sheet for this samp.

Fracturing/Brecciation/Veining and Vug-Filling hyd. bxtn.!!	Porosity Summary
---	-------------------------

Alteration/Metamorphism min. % bte - 89 KFSP - 12 plag. - ser. - 5 relic. - 2 chl. - 5 sulf. ep. - 2 tourm. - 1 cpxn. - 6 act. - 3 qtz. - tr.	Fluid Inclusions
---	-----------------------------

Interpreted Paragenesis of Vein- and Vug-Filling Minerals

VEIN STAGE



Explanation (MINERALS AS EST. % OF EACH VEIN STAGE AND (BTM., HORIZ.) VEINS OF EACH STAGE AS EST. % OF TOTAL VEINS)



..... trace	----- > 1-5%	██████████ > 15-50%
----- < 1% (vol.)	————— > 5-15%	██████████ > 50%

Petrographic Summary

Sample Identification FF 52-33 RD-2 8640	Petrographer/Date of Examination
Rock Type 30% HNFs. — (tr. ANDALUSITE in one chunk) 7% VNL. FRAGS. 15% Hnf/sc arg. 7% " metabas. 41% hydrothermal vbx	
<div style="float: right; text-align: right;"> see descrip for 8600 # </div> <div style="float: right; text-align: right;"> DTZ — 11 BTE — 6 CPXN — 6 ACT — 3 EP — 2 LEUC — 3 CHL — 4 TOURM — 11 SER. — 6 all. — 11. </div>	
Mineralization	
Alteration/Metamorphism bte selvages on q/bte units & q/BTE/CPXN units. wk-locally MOD. <u>sericitization</u> , post-dating the K-spar flooding	
Fluid Inclusions	Porosity Summary
Interpreted Paragenesis of Vein- and Vug-Filling Minerals	
9. GREEN BTE (or phengite) 10. CHL 11. CHL/EP/gtz/sphn.	1. EP/chl. 2. DTZ/bte 3. KF/ACT ser. 4. SER - [bte] 5. DTZ/BTE/CPXN 6. ACT/gtz/plag. 7. CHL/leucoxene 8. CPXN.
[] = replaced or relict	
Notes, Miscellaneous q-bte units x-cut hyd. BX. good examples of GRANOBLASTIC relict of quartz — also complete replacement of Franciscan calcite by CLINOPYROXENE	

PIX

Petrographic Summary

Sample Identification GEYSERS FF-5B-332D 8740'	Petrographer/Date of Examination JBT												
Rock Type VULT. FRAGS - 7 unlt. frags HNFLS. - 45% HNFLSC. argillite 10% HYDROTH. NBX - 30% 20 mntfsc LITHIC MGW - 18													
Mineralization													
Alteration/Metamorphism sericitizn / BTE (mx/w) (local)	<table style="width: 100%; border: none;"> <tr> <td style="border: none;">SER - 6</td> <td style="border: none;">talc - 1</td> </tr> <tr> <td style="border: none;">CHL - 2</td> <td style="border: none;">tour - 1</td> </tr> <tr> <td style="border: none;">BTE - 9</td> <td style="border: none;">KFSP - 10</td> </tr> <tr> <td style="border: none;">CPXU - 11</td> <td></td> </tr> <tr> <td style="border: none;">ACT - 5</td> <td></td> </tr> <tr> <td style="border: none;">EP - 1</td> <td></td> </tr> </table>	SER - 6	talc - 1	CHL - 2	tour - 1	BTE - 9	KFSP - 10	CPXU - 11		ACT - 5		EP - 1	
SER - 6	talc - 1												
CHL - 2	tour - 1												
BTE - 9	KFSP - 10												
CPXU - 11													
ACT - 5													
EP - 1													
Fluid Inclusions  12 μ (rare)	Porosity Summary												
 abundant < 1 - 10 μ (planes)	Interpreted Paragenesis of Vein- and Vug-Filling Minerals <ol style="list-style-type: none"> ① QTZ/BTE/PLAG. ← Post-dates met. cpxn. ② CPXU/Ø/PL ③ QTZ/SPHN/chi ④ CHL/qtz. ⑤ [act?] - EPIDOTE act ← needles ⑥ TOUR/QTZ/pl. 												
Notes, Miscellaneous													

Petrographic Summary

Sample Identification

FF52-33 RD 8800-8820'

Petrographer/Date of Examination

JBH

Rock Type

HNFLS - bte - cpxn^{-opxu} - olig. - (^{minor} sphn) - gtz.
 VULT. fragments - 7%
 ARGILLITE - none
 NO GRANITE - 10% (or gtz. NO MONZONITE)

super-metamorphic

Mineralization

tr py / magnetite

Alteration/Metamorphism

Tr. - garnet	Tr. - OLIVINE
11% bte	tour. - 1
12% cpxn	opxu - 5
6 - act	KFSP - 1%
2 - leuc.	4% - magn-ilm.
2 - chl	ser. - 5%
1 - epidote	tr - pyrite

Fluid Inclusions

est T_m < 200
 2nd cons. vap
 11% ratio

est T_m in 230°C
 biref. 20μ
 halite
 pr. or 2nd

Porosity Summary

Interpreted Paragenesis of Vein- and Vug-Filling Minerals


- ① SERICITE
- ② ACT / Cpxn / sphn
- ③ KF / gtz.
- ④ [CHL] (repl. actinolite)
- ⑤ ACT
- ⑥ KFSP

Notes, Miscellaneous

hnfls
~~opxu~~ has abundant orthopyroxene
 as well as cpxn.

note that KFSP has really tailed off

Petrographic Summary

Sample Identification FF 52-32 RD 8840	Petrographer/Date of Examination
Rock Type * HNFLS. (bte-gtz-cpxn-opxn-plag.-mag.) ^{± sphere} → 45% * VULT. FRAGS. — 5% (diff. to estimate well) 50% SUBGRANITE OR GRANITE QTZ-MONZONITE (?) subhedral to locally euhedral granular aggregate of Qtz, K-fsp, perthite, minor plagioclase — f/s aug. abt. 0.15-0.26 mm. dia — verging on graphic text. locally BTE microgranite local rare myrmekite	
Mineralization <p style="text-align: center;">none</p>	
Alteration/Metamorphism minor KFSP flood of hornfels. some Kspar chn. of oligoclase or albite in the intrusive. w. ser/bte chl/bte	
Fluid Inclusions no obvious primaries 	<div style="border: 1px solid black; border-radius: 15px; padding: 5px;"> <p>27% KFSP. tr. ANDALUSITE</p> <p>Porosity Summary</p> <p>2 act</p> <p>10 cpxn</p> <p>7 opxn</p> <p>7 bte</p> <p>tr. SILLIMANITE</p> <p>tr. MUSCOVITE</p> <p>tr. FeAx 3 ser.</p> <p>tr. epidote 2 chl.</p> <p>tr. rutile</p> </div>
Interpreted Paragenesis of Vein- and Vug-Filling Minerals ① [act]/EP-FeAx-PR ② [act]/CHL/leuc. [act] ③ [act]/mag - [chl] ④ cpxn/mag/KF/act. <div style="float: right; margin-top: 20px;"> <p>[] = replaces something else</p> <p>[x] = replaced by another mineral or minerals</p> <p>Lx] = partly replaced by another phase.</p> </div>	
Notes, Miscellaneous <p style="text-align: center;">" SUB-SUBGRANITE " texture for intrusive rx.</p>	

Petrographic Summary

Sample Identification

FF 52-32 RD

8900-8920

Petrographer/Date of Examination

JH

Rock Type

1 chip TREMULITE SCHIST - (prob caved)

huffsc sch. - 5

27% HORNFELS -

talc-cpxn-plag rock = tr.
 CPXN/bte/gtz, hornfels (or "rock") - 1%

unifrac - 5

(67) porphyritic granite (or) u granite ppy
 tr. intr. MGW

bte up to 0.6 x 0.2 mm
 0.8 dia.
 avg. intrusive grain size = 0.25-0.30 mm

BTE-CPXN U-GRAVITE PPY

Mineralization

none

Alteration/Metamorphism

diss. ep. sparse/plag.

epidote repl. allanite

Common in
 intr. Qtz
 all vapn

[BTE]/[Chl]

[cpxn]/[bte]

[ep][allanite]

bte pty repl. by chl.

[Chl]/[BTE]

Fluid Inclusions

mod. abund
 intr. Qtz

comm. L+Y [P]
 in Qtz w/ ep.
 also [S] on intrusive
 Qtz

Porosity Summary

25% KFSP.
 2 act.
 4 epidote
 1 leuc/sphn.

Tr. ALLANITE
 1 magnetite
 5 cpxn 1 tourm.
 7 bte

Interpreted Paragenesis of Vein- and Vug-Filling Minerals

- ① EP/gtz/kf ?
- ② EP
- ③ BTE/gtz
- ④ ~~ALLANITE~~ [allanite] - [EPIDOTE]

- ⑤ TOUR/[ACT]/KF^{rutile} - [CHL]
- ⑥ CPXN
- ⑦ SPK (on Huff's)

Notes, Miscellaneous

tourm. partly porphyroblastic
 intrusive quite fresh - appearing overall.

FRANSEN FEDERAL #52-32 SIDETRACK #2
STANDARD SURVEY TABLE

STA	MEAS. DEPTH	VERT. DEPTH	DRIFT		CUMULATIVE COORDINATES		TOTAL SEC
			***** ANGLE	BEARING	N S(-)	E W(-)	
1				N66E			
2	117	117	0.50	N66E	0.21	0.47	-0.42
3	350	350	1.25	S15E	-1.32	3.68	-3.86
4	482	482	2.00	S20W	-5.06	3.51	-4.42
5	730	730	1.25	S38W	-11.21	0.11	-2.24
6	1013	1012	5.50	N86W	-17.99	-15.11	11.40
7	1107	1106	7.75	N86W	-17.23	-25.93	22.17
8	1202	1200	9.75	N84W	-15.98	-40.33	36.54
9	1295	1291	12.50	N81W	-13.63	-58.12	54.45
10	1458	1450	13.50	N83W	-8.53	-94.43	91.07
11	1615	1602	13.50	N82W	-3.75	-130.77	127.65
12	1772	1755	13.25	N84W	0.68	-166.82	163.88
13	1867	1848	13.25	N83W	3.15	-188.45	185.59
14	2029	2005	14.25	N83W	7.84	-226.67	224.00
15	2187	2158	14.50	N83W	12.62	-265.60	263.13
16	2344	2310	15.00	N83W	17.49	-305.28	303.00
17	2438	2401	15.25	N84W	20.27	-329.64	327.46
18	2565	2523	16.00	N86W	23.25	-363.72	361.47
19	2644	2599	16.50	N86W	24.79	-385.77	383.42
20	2735	2686	17.25	N87W	26.40	-412.14	409.61
21	2830	2776	17.75	N86W	28.15	-440.65	437.93
22	2938	2879	18.25	N86W	30.47	-473.95	471.05
23	3033	2969	18.25	N86W	32.55	-503.62	500.58
24	3127	3059	18.25	N86W	34.60	-532.99	529.80
25	3281	3204	19.00	N88W	37.18	-582.11	578.50
26	3408	3325	19.00	S88W	37.18	-623.45	619.09
27	3503	3414	19.50	S87W	35.81	-654.74	649.55
28	3597	3503	20.00	S86W	33.87	-686.45	680.30
29	3597	3503	20.00	S86W	33.87	-686.45	680.30
30	3691	3591	20.00	S85W	31.35	-718.50	711.28
31	3784	3678	20.00	S85W	28.58	-750.19	741.85
32	3827	3719	20.00	S89W	27.81	-764.87	756.12
33	3858	3748	19.50	N88W	27.90	-775.35	766.42
34	3890	3778	19.25	N85W	28.55	-785.94	776.95
35	3921	3808	19.00	N79W	29.96	-796.00	787.09

OCT 08, 1980

WEIGHTING FACTOR: 0.50

FRANSEN FEDERAL #52-32 SIDETRACK #2
STANDARD SURVEY TABLE

STA	MEAS. DEPTH	VERT. DEPTH	DRIFT		CUMULATIVE COORDINATES		TOTAL SEC	D., B&M.
			***** ANGLE	BEARING	N S(-)	E W(-)		
							809.47	
36	3993	3876	17.25	N74W	35.19	-817.78	860.30	
37	4163	4043	16.75	N71W	50.58	-866.58	904.51	
38	4325	4194	16.25	N72W	64.73	-908.86	946.64	
39	4480	4343	15.50	N73W	77.47	-949.30	986.31	
40	4638	4496	13.75	N73W	39.14	-987.45	1008.82	
					95.17	-1009.21	1044.01	
41	4733	4588	13.75	N76W	100.68	-1043.98	1075.92	
42	4891	4742	12.00	N86W	102.37	-1076.16	1107.74	
43	5046	4894	12.00	N88W	103.77	-1108.31	1138.37	
44	5204	5048	11.50	N87W	106.72	-1133.93	1159.22	
45	5349	5190	13.00	N82W	109.09	-1159.72	1186.64	
					111.73	-1137.14	1217.30	
46	5442	5281	13.00	N85W	114.15	-1217.90	1231.93	
47	5560	5395	14.00	N84W	114.80	-1232.73	1262.16	
48	5691	5523	13.25	N87W	114.53	-1263.52	1294.33	
49	5754	5534	14.00	N88W	113.08	-1296.63	1326.65	
50	5877	5703	15.00	S87W	113.08	-1329.50	1358.02	
					112.52	-1361.57	1389.88	
51	6004	5826	15.25	S88W	109.63	-1394.59	1430.32	
52	6131	5948	14.75	N88W	104.83	-1436.71	1446.91	
53	6257	6070	14.75	S86W	102.55	-1454.06	1506.33	
54	6383	6192	15.75	S84W	92.66	-1516.51	1560.40	
55	6538	6341	16.00	S83W	82.60	-1573.56	1598.14	
					75.21	-1613.44	1654.65	
56	6601	6401	16.25	S82W	61.29	-1673.71	1713.11	
57	6822	6613	17.00	S80W	48.68	-1735.71	1755.22	
58	7012	6794	18.50	S60W	42.48	-1779.82	1819.79	
59	7139	6914	18.75	S79W	33.59	-1847.33	1884.36	
60	7329	7094	19.25	S75W	24.71	-1914.84	1936.58	
					19.00	-1969.14	2001.96	
61	7514	7268	20.75	S82W	24.16	-2034.74	2068.93	
62	7639	7385	21.00	S82W	43.85	-2099.14	2136.15	
63	7829	7562	21.00	S83W	69.50	-2162.63	2201.32	
64	8019	7739	21.00	S82W	34.17	-2226.17	2279.37	
65	8174	7835	20.25	S86W	103.75	-2301.87		
66	8363	8062	20.50	N77W				
67	8552	8238	21.25	N69W				
68	8742	8416	21.00	N67W				
69	8925	8587	20.75	N87W				
70	9155	8803	19.00	N64W				

OCT 16, 1980

WEIGHTING FACTOR: 0.50

GEYSERS DEVELOPMENT CORP. #5
STANDARD SURVEY TABLE

STA	MEAS. DEPTH	VERT. DEPTH	DRIFT		CUMULATIVE COORDINATES		TOTAL SEC
			***** ANGLE	BEARING	N S (-)	E W (-)	
1				S00E			
2	162	162	0.75	S02E	-1.06	0.02	1.06
3	295	295	1.50	S59W	-3.35	-1.23	3.67
4	385	385	1.75	S73W	-4.29	-3.50	6.22
5	478	478	2.25	S83W	-4.33	-6.80	9.47
6	572	572	1.50	S81W	-5.25	-9.65	12.55
7	667	667	2.00	S83W	-5.66	-12.72	15.45
8	761	761	2.75	S83W	-5.96	-16.61	19.34
9	856	856	2.00	N72W	-5.42	-20.50	23.23
10	950	950	2.50	N73W	-4.31	-24.02	26.97
11	1045	1044	3.00	N64W	-2.64	-28.25	31.53
12	1139	1138	2.50	N76W	-1.09	-32.50	36.04
13	1234	1233	2.00	N72W	-0.06	-36.09	39.77
14	1328	1327	2.00	N68W	1.06	-39.17	43.05
15	1425	1427	2.25	N60W	2.53	-42.50	46.75
16	1517	1516	1.50	N37W	4.61	-44.68	49.67
17	1675	1674	2.50	N43W	8.34	-46.23	55.13
18	1799	1798	2.25	N48W	12.44	-51.89	60.32
19	1924	1923	1.75	N67W	14.73	-55.57	64.63
20	1981	1980	1.00	N77W	15.20	-56.67	66.03
21	2075	2074	0.75	N76W	15.34	-58.27	67.49
22	2144	2143	1.50	N78W	15.34	-59.59	69.34
23	2176	2175	1.75	S63W	15.73	-60.49	69.73
24	2207	2206	3.00	S20W	14.76	-61.34	71.03
25	2288	2286	7.75	S09W	7.42	-63.24	78.62
26	2382	2379	10.00	S35W	-3.38	-65.01	93.12
27	2500	2496	9.50	S11W	-25.76	-67.79	113.10
28	2594	2593	9.75	S11W	-42.19	-70.79	128.82
29	2638	2631	9.75	S13W	-57.76	-74.10	144.74
30	2814	2805	10.00	S16W	-76.53	-77.61	156.35
31	2932	2921	9.75	S13W	-91.04	-85.42	186.59
32	3010	2998	11.00	S13W	-111.40	-89.76	200.62
33	3104	3090	11.00	S13W	-127.45	-95.31	213.57
34	3229	3213	11.00	S17W	-151.20	-101.67	242.42
35	3355	3335	11.50	S17W	-174.21	-109.95	256.61

NOV 19, 1960

WEIGHTING FACTOR: 0.50

GEYSERS DEVELOPMENT CORP. #5
STANDARD SURVEY TABLE

STA	MEAS. DEPTH	VERT. DEPTH	DRIFT		CUMULATIVE COORDINATES		TOTAL SEC
			***** ANGLE	BEARING	N S(-)	E W(-)	
36	3477	3456	12.00	S20W	-198.01	-118.38	291.86
37	3502	3578	11.50	S25W	-221.53	-128.13	317.32
38	3729	3703	10.75	S28W	-243.46	-139.06	341.82
39	3854	3826	11.25	S24W	-264.90	-149.51	365.67
40	3979	3948	11.25	S18W	-287.66	-158.25	390.06
41	4106	4073	12.00	S16W	-312.14	-165.74	415.65
42	4227	4191	11.50	S26W	-335.14	-174.57	440.29
43	4355	4317	11.50	S28W	-357.88	-186.15	465.81
44	4481	4440	11.75	S28W	-380.30	-198.07	491.20
45	4608	4564	12.50	S28W	-403.35	-210.60	517.83
46	4859	4809	12.75	S28W	-452.29	-236.35	572.74
47	4984	4931	13.00	S28W	-476.38	-249.43	600.59
48	5077	5021	13.50	S26W	-495.37	-259.10	621.90
49	5172	5114	13.50	S23W	-516.05	-268.30	644.03
50	5235	5176	14.00	S20W	-530.21	-273.82	659.29
51	5330	5267	14.00	S12W	-551.71	-281.28	682.03
52	5456	5389	14.25	S20W	-580.78	-291.29	712.73
53	5549	5479	14.50	S16W	-602.74	-298.43	735.87
54	5686	5612	14.75	S17W	-635.91	-308.25	770.46
55	5920	5838	15.00	S04W	-694.27	-319.20	830.53
56	6030	5945	14.50	S05W	-722.37	-321.64	858.54
57	6154	6065	14.75	S03W	-750.25	-325.45	889.38
58	6279	6186	14.00	S03W	-784.04	-328.43	920.88
59	6425	6327	13.25	S05W	-819.15	-330.83	955.27
60	6518	6418	13.50	S07W	-840.54	-333.03	976.79
61	6957	6847	11.25	S21W	-931.63	-355.34	1070.87
62	7405	7267	9.25	S42W	-1008.07	-402.56	1150.29
63	8075	7952	6.25	S72W	-1048.62	-465.00	1234.74
64	8359	8235	5.75	N64E	-1048.55	-494.61	1254.43
65	8553	8433	5.50	N61W	-1037.54	-511.92	1283.93
66	8667	8541	5.50	N61W	-1032.43	-521.15	1294.38

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WEIGHTING FACTOR: 0.50