

GLO 2003

Colorado Surface Samples

→ B. Sibbett

2

NVC80-1

ELEMENT

CONCENTRATION

NA	% OX.	0.116
K	% OX.	2.04
CA	% OX.	1.02
MG	% OX.	0.447
FE	% OX.	3.03
AL	% OX.	6.97
SI	% OX.	< 1.60
TI	% OX.	0.262
P	% OX.	0.439
SR	PPM	254
BA	% OX.	0.106
V	PPM	< 250
CR	PPM	67
MN	% OX.	0.012
CO	PPM	67
NI	PPM	29
CU	PPM	39
MO	PPM	< 50.0
PB	PPM	25
ZN	PPM	137
CD	PPM	< 5.00
AG	PPM	23
AU	PPM	< 4.00
AS	PPM	1221 <i>1250</i>
SB	PPM	81
BI	PPM	< 100
U	PPM	< 2500
TE	PPM	< 50.0
SN	PPM	< 5.00
W	PPM	< 1200
LI	PPM	104
BE	PPM	1.6
B	PPM	< 400
ZR	PPM	29
LA	PPM	17
CE	PPM	28
TH	PPM	< 150
Hg	PPb	45

ELEMENT		CONCENTRATION
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NA	% OX.	0.052
K	% OX.	1.44
CA	% OX.	6.13
MG	% OX.	0.692
FE	% OX.	2.35
AL	% OX.	5.16
SI	% OX.	< 1.60
TI	% OX.	0.261
P	% OX.	0.165
SR	PPM	117
BA	% OX.	0.065
V	PPM	< 250
CR	PPM	37
MN	% OX.	0.011
CO	PPM	25
NI	PPM	11
CU	PPM	11
MO	PPM	< 50.0
PB	PPM	< 10.0
ZN	PPM	60
CD	PPM	< 5.00
AG	PPM	9
AU	PPM	< 4.00
AS	PPM	506 <i>550</i>
SB	PPM	39
BI	PPM	< 100
U	PPM	< 2500
TE	PPM	< 50.0
SN	PPM	< 5.00
W	PPM	< 1200
LI	PPM	106
BE	PPM	1.0
B	PPM	< 400
ZR	PPM	20
LA	PPM	15
CE	PPM	19
TH	PPM	< 150
Hg	<i>ppb</i>	<i>70</i>

ELEMENT		CONCENTRATION
NA	% OX.	0.088
K	% OX.	2.40
CA	% OX.	0.413
MG	% OX.	0.547
FE	% OX.	2.11
AL	% OX.	7.74
SI	% OX.	< 1.60
TI	% OX.	0.341
P	% OX.	0.108
SR	PPM	66
BA	% OX.	0.188
V	PPM	< 250
CR	PPM	67
MN	% OX.	0.002
CO	PPM	17
NI	PPM	11
CU	PPM	13
MO	PPM	< 50.0
PB	PPM	13
ZN	PPM	51
CD	PPM	< 5.00
AG	PPM	2
AU	PPM	< 4.00
AS	PPM	217 <i>200</i>
SB	PPM	< 30.0
BI	PPM	< 100
U	PPM	< 2500
TE	PPM	< 50.0
SN	PPM	< 5.00
W	PPM	< 1200
LI	PPM	74
BE	PPM	1.7
B	PPM	< 400
ZR	PPM	26
LA	PPM	20
CE	PPM	31
TH	PPM	< 150
<i>Hg</i>	<i>ppb</i>	<i>25</i>

## ELEMENT

## CONCENTRATION

NA	% OX.		0.055
K	% OX.		2.64
CA	% OX.		0.252
MG	% OX.		0.442
FE	% OX.		1.000
AL	% OX.		7.33
SI	% OX.	<	1.60
TI	% OX.		0.309
P	% OX.		0.050
SR	PPM		55
BA	% OX.		0.176
V	PPM	<	250
CR	PPM		38
MN	% OX.		0.002
CO	PPM		18
NI	PPM	<	5.00
CU	PPM		26
MO	PPM	<	50.0
PB	PPM	<	10.0
ZN	PPM		22
CD	PPM	<	5.00
AG	PPM		46
AU	PPM	<	4.00
AS	PPM		386 <i>425</i>
SB	PPM		48
BI	PPM	<	100
U	PPM	<	2500
TE	PPM	<	50.0
SN	PPM	<	5.00
W	PPM	<	1200
LI	PPM		94
BE	PPM		1.3
B	PPM	<	400
ZR	PPM		31
LA	PPM		16
CE	PPM		23
TH	PPM	<	150
<i>Hg</i>	<i>ppb</i>		<i>15</i>

ELEMENT	CONCENTRATION	
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NA	% OX.	1.73
K	% OX.	2.80
CA	% OX.	4.94
MG	% OX.	0.788
FE	% OX.	1.30
AL	% OX.	14.41
SI	% OX.	< 1.60
TI	% OX.	0.064
P	% OX.	0.132
SR	PPM	129
BA	% OX.	0.021
V	PPM	< 250
CR	PPM	< 2.00
MN	% OX.	0.054
CO	PPM	2
NI	PPM	< 5.00
CU	PPM	8
MO	PPM	< 50.0
PB	PPM	26
ZN	PPM	57
CD	PPM	< 5.00
AG	PPM	< 2.00
AU	PPM	6
AS	PPM	< 25.0
SB	PPM	< 30.0
BI	PPM	< 100
U	PPM	< 2500
TE	PPM	< 50.0
SN	PPM	13
W	PPM	< 1200
LI	PPM	9
BE	PPM	4.0
B	PPM	< 400
ZR	PPM	109
LA	PPM	21
CE	PPM	31
TH	PPM	< 150

Hg

ppb

550

ELEMENT CONCENTRATION

NA	% OX.		2.87
K	% OX.		2.71
CA	% OX.		6.21
MG	% OX.		0.374
FE	% OX.		1.08
AL	% OX.		12.53
SI	% OX.	<	1.60
TI	% OX.		0.056
F	% OX.	<	0.002
SR	PPM		86
BA	% OX.		0.012
V	PPM	<	250
CR	PPM	<	2.00
MN	% OX.		0.035
CO	PPM		5
NI	PPM	<	5.00
CU	PPM	<	5.00
MO	PPM	<	50.0
PB	PPM		27
ZN	PPM		49
CD	PPM	<	5.00
AG	PPM	<	2.00
AU	PPM	<	4.00
AS	PPM	<	25.0
SB	PPM	<	30.0
BI	PPM	<	100
U	PPM	<	2500
TE	PPM	<	50.0
SN	PPM	<	5.00
W	PPM	<	1200
LI	PPM		3
BE	PPM		3.5
B	PPM	<	400
ZR	PPM		108
LA	PPM		21
CE	PPM		33
TH	PPM	<	150
Hg	ppb		25

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ELEMENT		CONCENTRATION
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NA	% OX.	2.98
K	% OX.	2.76
CA	% OX.	0.850
MG	% OX.	0.114
FE	% OX.	1.24
AL	% OX.	12.54
SI	% OX.	< 1.60
TI	% OX.	0.062
F	% OX.	< 0.002
SR	PPM	45
BA	% OX.	0.017
V	PPM	< 250
CR	PPM	< 2.00
MN	% OX.	0.029
CO	PPM	17
NI	PPM	< 5.00
CU	PPM	< 5.00
MO	PPM	< 50.0
PB	PPM	24
ZN	PPM	55
CD	PPM	< 5.00
AG	PPM	< 2.00
AU	PPM	< 4.00
AS	PPM	< 25.0 3
SB	PPM	< 30.0
BI	PPM	< 100
U	PPM	< 2500
TE	PPM	< 50.0
SN	PPM	< 5.00
W	PPM	< 1200
LI	PPM	9
BE	PPM	4.0
B	PPM	< 400
ZR	PPM	122
LA	PPM	12
CE	PPM	23
TH	PPM	< 150

Hg

ppb

/0

## ELEMENT

## CONCENTRATION

NA	% OX.		3.06
K	% OX.		3.57
CA	% OX.		1.09
MG	% OX.		0.232
FE	% OX.		1.40
AL	% OX.		12.26
SI	% OX.	<	1.60
TI	% OX.		0.109
P	% OX.		0.063
SR	PPM		289
BA	% OX.		0.025
V	PPM	<	250
CR	PPM		8
MN	% OX.		0.020
CO	PPM		7
NI	PPM	<	5.00
CU	PPM	<	5.00
MO	PPM	<	50.0
PB	PPM		26
ZN	PPM		60
CD	PPM	<	5.00
AG	PPM	<	2.00
AU	PPM	<	4.00
AS	PPM	<	25.0
SB	PPM	<	30.0
BI	PPM	<	100
U	PPM	<	2500
TE	PPM	<	50.0
SN	PPM	<	5.00
W	PPM	<	1200
LI	PPM		13
BE	PPM		4.0
B	PPM	<	400
ZR	PPM		119
LA	PPM		10
CE	PPM		19
TH	PPM	<	150

Hg

ppb

&lt;5



ELEMENT

CONCENTRATION

NA	% OX.	0.520
K	% OX.	1.12
CA	% OX.	12.84
MG	% OX.	1.47
FE	% OX.	1.89
AL	% OX.	5.51
SI	% OX.	< 1.60
TI	% OX.	0.220
F	% OX.	1.75
SR	PPM	286
BA	% OX.	0.102
V	PPM	< 250
CR	PPM	33
MN	% OX.	0.032
CO	PPM	19
NI	PPM	16
CU	PPM	48
MO	PPM	< 50.0
PB	PPM	< 10.0
ZN	PPM	239
CD	PPM	< 5.00
AG	PPM	4
AU	PPM	< 4.00
AS	PPM	< 25.0 <sup>6</sup>
SB	PPM	30
BI	PPM	< 100
U	PPM	< 2500
TE	PPM	< 50.0
SN	PPM	< 5.00
W	PPM	< 1200
LI	PPM	21
BE	PPM	1.0
B	PPM	< 400
ZR	PPM	32
LA	PPM	26
CE	PPM	37
TH	PPM	< 150
Hg	ppb	120

## ELEMENT

## CONCENTRATION

NA	% OX.		0.038
K	% OX.		2.44
CA	% OX.		6.68
MG	% OX.		2.04
FE	% OX.		3.83
AL	% OX.		10.07
SI	% OX.	<	1.60
TI	% OX.		0.364
P	% OX.		0.279
SR	PPM		119
BA	% OX.		0.281
V	PPM	<	250
CR	PPM		27
MN	% OX.		0.047
CO	PPM		35
NI	PPM		21
CU	PPM		13
MO	PPM	<	50.0
PB	PPM	<	10.0
ZN	PPM		140
CD	PPM	<	5.00
AG	PPM	<	2.00
AU	PPM		4
AS	PPM	<	25.0 45
SB	PPM	<	30.0
BI	PPM	<	100
U	PPM	<	2500
TE	PPM	<	50.0
SN	PPM		11
W	PPM	<	1200
LI	PPM		46
BE	PPM		1.7
B	PPM	<	400
ZR	PPM		39
LA	PPM		19
CE	PPM		25
TH	PPM	<	150
Hg	ppb		100

## ELEMENT

## CONCENTRATION

NA	% OX.	0.397
K	% OX.	2.02
CA	% OX.	1.11
MG	% OX.	0.116
FE	% OX.	0.380
AL	% OX.	12.32
SI	% OX.	< 1.60
TI	% OX.	0.066
P	% OX.	0.008
SR	PPM	87
BA	% OX.	0.085
V	PPM	< 250
CR	PPM	< 2.00
MN	% OX.	0.008
CO	PPM	24
NI	PPM	< 5.00
CU	PPM	< 5.00
MO	PPM	< 50.0
PB	PPM	22
ZN	PPM	49
CD	PPM	< 5.00
AG	PPM	< 2.00
AU	PPM	< 4.00
AS	PPM	< 25.0 10
SB	PPM	< 30.0
BI	PPM	< 100
U	PPM	< 2500
TE	PPM	< 50.0
SN	PPM	< 5.00
W	PPM	< 1200
LI	PPM	90
BE	PPM	2.1
B	PPM	< 400
ZR	PPM	111
LA	PPM	21
CE	PPM	40
TH	PPM	< 150

Hg

ppb

55

## ELEMENT

## CONCENTRATION

NA	% OX.		0.831
K	% OX.		1.77
CA	% OX.		2.51
MG	% OX.		1.58
FE	% OX.		5.44
AL	% OX.		13.01
SI	% OX.	<	1.60
TI	% OX.		0.737
F	% OX.		0.234
SR	PPM		257
BA	% OX.		0.120
V	PPM	<	250
CR	PPM		99
MN	% OX.		0.038
CO	PPM		24
NI	PPM		36
CU	PPM		50
MO	PPM	<	50.0
PB	PPM		17
ZN	PPM		84
CD	PPM	<	5.00
AG	PPM		4
AU	PPM	<	4.00
AS	PPM		97
SB	PPM	<	30.0
BI	PPM	<	100
U	PPM	<	2500
TE	PPM	<	50.0
SN	PPM		6
W	PPM	<	1200
LI	PPM		59
BE	PPM		3.2
B	PPM	<	400
ZR	PPM		96
LA	PPM		27
CE	PPM		43
TH	PPM	<	150
Hg	ppb		110

ELEMENT	CONCENTRATION
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NA	% OX.	0.757
K	% OX.	4.98
CA	% OX.	1.99
MG	% OX.	0.917
FE	% OX.	1.10
AL	% OX.	12.49
SI	% OX.	< 1.60
TI	% OX.	0.171
P	% OX.	0.077
SR	PPM	98
BA	% OX.	0.089
V	PPM	< 250
CR	PPM	11
MN	% OX.	0.038
CO	PPM	10
NI	PPM	< 5.00
CU	PPM	6
MO	PPM	< 50.0
PB	PPM	26
ZN	PPM	18
CD	PPM	< 5.00
AG	PPM	< 2.00
AU	PPM	< 4.00
AS	PPM	< 25.0
SB	PPM	< 30.0
BI	PPM	< 100
U	PPM	< 2500
TE	PPM	< 50.0
SN	PPM	< 5.00
W	PPM	< 1200
LI	PPM	61
BE	PPM	2.4
B	PPM	< 400
ZR	PPM	92
LA	PPM	33
CE	PPM	52
TH	PPM	< 150

Hg

ppb

220

12

ELEMENT

CONCENTRATION

NA	% OX.		4.50
K	% OX.		2.00
CA	% OX.		1.74
MG	% OX.		0.184
FE	% OX.		2.01
AL	% OX.		11.15
SI	% OX.	<	1.60
TI	% OX.		0.278
P	% OX.		0.147
SR	PPM		97
BA	% OX.		0.024
V	PPM	<	250
CR	PPM		10
MN	% OX.		0.027
CO	PPM		24
NI	PPM		6
CU	PPM		67
MO	PPM	<	50.0
PB	PPM		11
ZN	PPM		29
CD	PPM	<	5.00
AG	PPM	<	2.00
AU	PPM	<	4.00
AS	PPM		49
SB	PPM		47
BI	PPM	<	100
U	PPM	<	2500
TE	PPM	<	50.0
SN	PPM	<	5.00
W	PPM	<	1200
LI	PPM		19
BE	PPM		1.2
B	PPM	<	400
ZR	PPM		73
LA	PPM	<	5.00
CE	PPM	<	10.0
TH	PPM	<	150

Hg

ppb

45

70

ELEMENT		CONCENTRATION
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NA	% OX.	0.448
K	% OX.	2.56
CA	% OX.	0.311
MG	% OX.	0.281
FE	% OX.	0.924
AL	% OX.	16.47
SI	% OX.	< 1.60
TI	% OX.	0.213
P	% OX.	0.009
SR	PPM	70
BA	% OX.	0.056
V	PPM	< 250
CR	PPM	6
MN	% OX.	0.068
CO	PPM	18
NI	PPM	9
CU	PPM	8
MO	PPM	< 50.0
PB	PPM	78
ZN	PPM	49
CD	PPM	< 5.00
AG	PPM	< 2.00
AU	PPM	< 4.00
AS	PPM	< 25.0 28
SB	PPM	< 30.0
BI	PPM	< 100
U	PPM	< 2500
TE	PPM	< 50.0
SN	PPM	< 5.00
W	PPM	< 1200
LI	PPM	74
BE	PPM	3.0
B	PPM	< 400
ZR	PPM	122
LA	PPM	29
CE	PPM	56
TH	PPM	< 150
Hg	ppb	240

1017

NVC80-16

ELEMENT

CONCENTRATION

NA	% OX.		0.450
K	% OX.		2.53
CA	% OX.		0.293
MG	% OX.		0.271
FE	% OX.		0.882
AL	% OX.		14.87
SI	% OX.	<	1.60
TI	% OX.		0.214
F	% OX.		0.010
SR	PPM		66
BA	% OX.		0.055
V	PPM	<	250
CR	PPM		4
MN	% OX.		0.065
CO	PPM		18
NI	PPM		9
CU	PPM		8
MO	PPM	<	50.0
PB	PPM		75
ZN	PPM		48
CD	PPM	<	5.00
AG	PPM	<	2.00
AU	PPM	<	4.00
AS	PPM	<	25.0
SB	PPM	<	30.0
BI	PPM	<	100
U	PPM	<	2500
TE	PPM	<	50.0
SN	PPM	<	5.00
W	PPM	<	1200
LI	PPM		74
BE	PPM		2.9
B	PPM	<	400
ZR	PPM		122
LA	PPM		22
CE	PPM		44
TH	PPM	<	150

Hg

ppb

240

26



ELEMENT	CONCENTRATION	
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NA	% OX.	1.30
K	% OX.	3.05
CA	% OX.	2.38
MG	% OX.	0.177
FE	% OX.	0.791
AL	% OX.	10.73
SI	% OX.	< 1.60
TI	% OX.	0.133
F	% OX.	0.047
SR	PPM	233
BA	% OX.	0.094
V	PPM	< 250
CR	PPM	4
MN	% OX.	0.044
CO	PPM	19
NI	PPM	< 5.00
CU	PPM	< 5.00
MO	PPM	< 50.0
PB	PPM	26
ZN	PPM	18
CD	PPM	< 5.00
AG	PPM	< 2.00
AU	PPM	4
AS	PPM	62 50
SB	PPM	< 30.0
BI	PPM	< 100
U	PPM	< 2500
TE	PPM	< 50.0
SN	PPM	< 5.00
W	PPM	< 1200
LI	PPM	73
BE	PPM	2.2
B	PPM	< 400
ZR	PPM	94
LA	PPM	34
CE	PPM	52
TH	PPM	< 150
Hg	ppb	140

ELEMENT

CONCENTRATION

NA	% OX.	1.04
K	% OX.	3.82
CA	% OX.	1.73
MG	% OX.	0.621
FE	% OX.	1.58
AL	% OX.	15.31
SI	% OX.	< 1.60
TI	% OX.	0.159
P	% OX.	0.003
SR	PPM	455
BA	% OX.	0.055
V	PPM	< 250
CR	PPM	2
MN	% OX.	0.241
CO	PPM	6
NI	PPM	< 5.00
CU	PPM	8
MO	PPM	< 50.0
PB	PPM	39
ZN	PPM	54
CD	PPM	< 5.00
AG	PPM	< 2.00
AU	PPM	10
AS	PPM	< 25.0
SB	PPM	< 30.0
BI	PPM	< 100
U	PPM	< 2500
TE	PPM	< 50.0
SN	PPM	< 5.00
W	PPM	< 1200
LI	PPM	5
BE	PPM	3.0
B	PPM	< 400
ZR	PPM	117
LA	PPM	42
CE	PPM	74
TH	PPM	< 150
Hg	ppb	/0

2

ELEMENT		CONCENTRATION
NA	% OX.	0.022
K	% OX.	1.68
CA	% OX.	7.55
MG	% OX.	0.500
FE	% OX.	1.75
AL	% OX.	5.07
SI	% OX.	< 1.60
TI	% OX.	0.174
P	% OX.	0.104
SR	PPM	189
BA	% OX.	0.071
V	PPM	< 250
CR	PPM	20
MN	% OX.	0.052
CO	PPM	28
NI	PPM	9
CU	PPM	52
MO	PPM	< 50.0
PB	PPM	< 10.0
ZN	PPM	53
CD	PPM	< 5.00
AG	PPM	< 2.00
AU	PPM	5
AS	PPM	466 450
SB	PPM	35
BI	PPM	< 100
U	PPM	< 2500
TE	PPM	< 50.0
SN	PPM	< 5.00
W	PPM	< 1200
LI	PPM	101
BE	PPM	1.7
B	PPM	< 400
ZR	PPM	15
LA	PPM	15
CE	PPM	13
TH	PPM	< 150
Hg	ppb	45

ELEMENT		CONCENTRATION
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NA	% OX.	0.020
K	% OX.	1.28
CA	% OX.	2.56
MG	% OX.	0.388
FE	% OX.	1.16
AL	% OX.	4.64
SI	% OX.	< 1.60
TI	% OX.	0.182
P	% OX.	0.053
SR	PPM	22
BA	% OX.	0.101
V	PPM	< 250
CR	PPM	27
MN	% OX.	0.015
CO	PPM	35
NI	PPM	18
CU	PPM	21
MO	PPM	< 50.0
PB	PPM	< 10.0
ZN	PPM	71
CD	PPM	< 5.00
AG	PPM	< 2.00
AU	PPM	< 4.00
AS	PPM	37
SB	PPM	< 30.0
BI	PPM	< 100
U	PPM	< 2500
TE	PPM	< 50.0
SN	PPM	< 5.00
W	PPM	< 1200
LI	PPM	74
BE	PPM	1.3
B	PPM	< 400
ZR	PPM	10
LA	PPM	11
CE	PPM	13
TH	PPM	< 150

Hg

Ppb

2200

65

ELEMENT		CONCENTRATION
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NA	% OX.	0.018
K	% OX.	2.43
CA	% OX.	0.228
MG	% OX.	0.373
FE	% OX.	0.567
AL	% OX.	11.32
SI	% OX.	< 1.60
TI	% OX.	0.053
F	% OX.	0.003
SR	PPM	29
BA	% OX.	0.016
V	PPM	< 250
CR	PPM	< 2.00
MN	% OX.	0.002
CO	PPM	18
NI	PPM	5
CU	PPM	< 5.00
MO	PPM	< 50.0
PB	PPM	20
ZN	PPM	49
CD	PPM	< 5.00
AG	PPM	< 2.00
AU	PPM	< 4.00
AS	PPM	81 <sup>90</sup>
SE	PPM	< 30.0
BI	PPM	< 100
U	PPM	< 2500
TE	PPM	< 50.0
SN	PPM	< 5.00
W	PPM	< 1200
LI	PPM	224
BE	PPM	1.9
B	PPM	< 400
ZR	PPM	102
LA	PPM	18
CE	PPM	35
TH	PPM	< 150
Hg	ppb	100

## ELEMENT

## CONCENTRATION

NA	% OX.		0.031
K	% OX.		1.50
CA	% OX.		21.80
MG	% OX.		0.642
FE	% OX.		1.62
AL	% OX.		5.64
SI	% OX.	<	1.60
TI	% OX.		0.234
P	% OX.		0.122
SR	PPM		81
BA	% OX.		0.121
V	PPM	<	250
CR	PPM		27
MN	% OX.		0.068
CO	PPM		22
NI	PPM		14
CU	PPM		32
MO	PPM	<	50.0
PB	PPM	<	10.0
ZN	PPM		282
CD	PPM	<	5.00
AG	PPM	<	2.00
AU	PPM	<	4.00
AS	PPM		158
SB	PPM	<	30.0
BI	PPM	<	100
U	PPM	<	2500
TE	PPM	<	50.0
SN	PPM	<	5.00
W	PPM	<	1200
LI	PPM		43
BE	PPM		2.2
B	PPM	<	400
ZR	PPM		23
LA	PPM		9
CE	PPM		13
TH	PPM	<	150
Hg	ppb		170

175

ELEMENT	CONCENTRATION	
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NA	% OX.	0.017
K	% OX.	0.767
CA	% OX.	13.50
MG	% OX.	0.158
FE	% OX.	0.624
AL	% OX.	2.43
SI	% OX.	< 1.60
TI	% OX.	0.067
P	% OX.	0.018
SR	PPM	105
BA	% OX.	0.035
V	PPM	< 250
CR	PPM	11
MN	% OX.	0.156
CO	PPM	29
NI	PPM	< 5.00
CU	PPM	16
MO	PPM	< 50.0
PB	PPM	30
ZN	PPM	76
CD	PPM	< 5.00
AG	PPM	< 2.00
AU	PPM	4
AS	PPM	42
SB	PPM	< 30.0
BI	PPM	< 100
U	PPM	< 2500
TE	PPM	< 50.0
SN	PPM	< 5.00
W	PPM	< 1200
LI	PPM	188
BE	PPM	1.1
B	PPM	< 400
ZR	PPM	< 5.00
LA	PPM	7
CE	PPM	< 10.0
TH	PPM	< 150

Hg

ppb

65

75

## ELEMENT

## CONCENTRATION

NA	% OX.		0.474
K	% OX.		0.523
CA	% OX.		2.43
MG	% OX.		1.42
FE	% OX.		3.35
AL	% OX.		4.63
SI	% OX.	<	1.60
TI	% OX.		0.134
P	% OX.		0.070
SR	PPM		95
BA	% OX.		0.010
V	PPM	<	250
CR	PPM		13
MN	% OX.		0.057
CO	PPM		43
NI	PPM		11
CU	PPM		11
MO	PPM	<	50.0
PB	PPM		15
ZN	PPM		76
CD	PPM	<	5.00
AG	PPM	<	2.00
AU	PPM		5
AS	PPM		271
SR	PPM		576
BI	PPM	<	100
U	PPM	<	2500
TE	PPM	<	50.0
SN	PPM	<	5.00
W	PPM	<	1200
LI	PPM		32
BE	PPM		1.0
B	PPM	<	400
ZR	PPM		16
LA	PPM		14
CE	PPM		18
TH	PPM	<	150
Hg	ppb		70

300



ELEMENT		CONCENTRATION
---------	--	---------------

NA	% OX.	0.490
K	% OX.	1.70
CA	% OX.	1.57
MG	% OX.	0.663
FE	% OX.	19.71
AL	% OX.	6.66
SI	% OX.	< 1.60
TI	% OX.	0.216
P	% OX.	0.173
SR	PPM	159
BA	% OX.	0.070
V	PPM	< 250
CR	PPM	25
MN	% OX.	0.023
CO	PPM	45
NI	PPM	14
CU	PPM	254
MO	PPM	< 50.0
PB	PPM	1902
ZN	PPM	712
CD	PPM	43
AG	PPM	16
AU	PPM	< 4.00
AS	PPM	1402 1500
SB	PPM	623
BI	PPM	< 100
U	PPM	< 2500
TE	PPM	< 50.0
SN	PPM	< 5.00
W	PPM	< 1200
LI	PPM	40
BE	PPM	2.5
B	PPM	494
ZR	PPM	22
LA	PPM	12
CE	PPM	31
TH	PPM	< 150

Hg

ppb

45

## ELEMENT

## CONCENTRATION

NA	% OX.		2.07
K	% OX.		2.18
CA	% OX.		9.85
MG	% OX.		1.81
FE	% OX.		7.25
AL	% OX.		14.82
SI	% OX.	<	1.60
TI	% OX.		0.824
F	% OX.		0.293
SR	PPM		332
BA	% OX.		0.169
V	PPM	<	250
CR	PPM		347
MN	% OX.		0.256
CO	PPM		37
NI	PPM		122
CU	PPM		50
MO	PPM	<	50.0
PR	PPM		19
ZN	PPM		65
CD	PPM	<	5.00
AG	PPM	<	2.00
AU	PPM		10
AS	PPM	<	25.0
SB	PPM	<	30.0
BI	PPM	<	100
U	PPM	<	2500
TE	PPM	<	50.0
SN	PPM	<	5.00
W	PPM	<	1200
LI	PPM		89
BE	PPM		1.9
B	PPM	<	400
ZR	PPM		98
LA	PPM		19
CE	PPM		33
TH	PPM	<	150

Hg

ppb

25

2

ELEMENT	CONCENTRATION
---------	---------------

NA	% OX.	0.038
K	% OX.	0.051
CA	% OX.	0.616
MG	% OX.	0.059
FE	% OX.	0.120
AL	% OX.	4.46
SI	% OX.	< 1.60
TI	% OX.	0.025
P	% OX.	0.048
SR	PPM	202
BA	% OX.	0.111
V	PPM	< 250
CR	PPM	7
MN	% OX.	0.001
CO	PPM	29
NI	PPM	< 5.00
CU	PPM	5
MO	PPM	< 50.0
PB	PPM	< 10.0
ZN	PPM	< 5.00
CD	PPM	< 5.00
AG	PPM	< 2.00
AU	PPM	< 4.00
AS	PPM	105 <i>125</i>
SB	PPM	40
BI	PPM	< 100
U	PPM	< 2500
TE	PPM	< 50.0
SN	PPM	< 5.00
W	PPM	< 1200
LI	PPM	28
BE	PPM	< 0.500
B	PPM	< 400
ZR	PPM	< 5.00
LA	PPM	5
CE	PPM	< 10.0
TH	PPM	< 150

Hg

ppb

55

## ELEMENT

## CONCENTRATION

NA	% OX.		0.429
K	% OX.		0.019
CA	% OX.		0.022
MG	% OX.		0.027
FE	% OX.		1.14
AL	% OX.		31.88
SI	% OX.	<	1.60
TI	% OX.		0.332
F	% OX.		0.014
SR	PPM		34
BA	% OX.		0.003
V	PPM	<	250
CR	PPM		4
MN	% OX.	<	0.001
CO	PPM		4
NI	PPM	<	5.00
CU	PPM	<	5.00
MO	PPM	<	50.0
PB	PPM		65
ZN	PPM	<	5.00
CD	PPM	<	5.00
AG	PPM	<	2.00
AU	PPM		8
AS	PPM		74
SB	PPM	<	30.0
BI	PPM	<	100
U	PPM	<	2500
TE	PPM	<	50.0
SN	PPM	<	5.00
W	PPM	<	1200
LI	PPM		20
BE	PPM		0.6
B	PPM	<	400
ZR	PPM		194
LA	PPM		22
CE	PPM		51
TH	PPM	<	150

Hg

ppb

750

90

ELEMENT		CONCENTRATION
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NA	% OX.	0.424
K	% OX.	1.36
CA	% OX.	0.455
MG	% OX.	0.652
FE	% OX.	4.17
AL	% OX.	8.80
SI	% OX.	< 1.60
TI	% OX.	0.310
P	% OX.	0.111
SR	PPM	526
BA	% OX.	0.684
V	PPM	< 250
CR	PPM	12
MN	% OX.	0.010
CO	PPM	18
NI	PPM	5
CU	PPM	104
MO	PPM	< 50.0
PB	PPM	12
ZN	PPM	59
CD	PPM	< 5.00
AG	PPM	2
AU	PPM	< 4.00
AS	PPM	41
SB	PPM	< 30.0
BI	PPM	< 100
U	PPM	< 2500
TE	PPM	< 50.0
SN	PPM	< 5.00
W	PPM	< 1200
LI	PPM	50
RE	PPM	2.4
B	PPM	< 400
ZR	PPM	57
LA	PPM	6
CE	PPM	13
TH	PPM	< 150

Hg

ppb

45

45

## ELEMENT

## CONCENTRATION

NA	% OX.		0.219
K	% OX.		0.126
CA	% OX.		0.096
MG	% OX.		0.090
FE	% OX.		0.528
AL	% OX.		13.83
SI	% OX.	<	1.60
TI	% OX.		0.067
P	% OX.		0.005
SR	PPM		13
BA	% OX.		0.008
V	PPM	<	250
CR	PPM	<	2.00
MN	% OX.		0.003
CD	PPM		15
NI	PPM	<	5.00
CU	PPM	<	5.00
MO	PPM	<	50.0
FB	PPM		17
ZN	PPM		20
CD	PPM	<	5.00
AG	PPM	<	2.00
AU	PPM	<	4.00
AS	PPM	<	25.0
SB	PPM	<	30.0
BI	PPM	<	100
U	PPM	<	2500
TE	PPM	<	50.0
SN	PPM	<	5.00
W	PPM	<	1200
LI	PPM		126
BE	PPM		1.2
B	PPM	<	400
ZR	PPM		122
LA	PPM		13
CE	PPM		32
TH	PPM	<	150

Hg

ppb

220

## ELEMENT

## CONCENTRATION

NA	% OX.	0.042
K	% OX.	0.657
CA	% OX.	40.30
MG	% OX.	0.457
FE	% OX.	7.19
AL	% OX.	3.86
SI	% OX.	< 1.60
TI	% OX.	0.182
P	% OX.	0.078
SR	PPM	176
BA	% OX.	0.062
V	PPM	< 250
CR	PPM	21
MN	% OX.	0.162
CO	PPM	27
NI	PPM	50
CU	PPM	17
MO	PPM	< 50.0
PB	PPM	17
ZN	PPM	<u>664</u>
CD	PPM	6
AG	PPM	< 2.00
AU	PPM	<u>5</u>
AS	PPM	32. <sup>50</sup>
SB	PPM	< 30.0
BI	PPM	< 100
U	PPM	< 2500
TE	PPM	< 50.0
SN	PPM	10
W	PPM	< 1200
LI	PPM	18
BE	PPM	1.7
B	PPM	< 400
ZR	PPM	31
LA	PPM	< 5.00
CE	PPM	20
TH	PPM	< 150

Hg

ppb

490

## ELEMENT

## CONCENTRATION

NA	% OX.		0.069
K	% OX.		0.066
CA	% OX.		0.415
MG	% OX.		0.053
FE	% OX.		10.76
AL	% OX.		7.16
SI	% OX.	<	1.60
TI	% OX.		0.063
F	% OX.		0.012
SR	PPM		305
BA	% OX.		0.600
V	PPM	<	250
CR	PPM	<	2.00
MN	% OX.		0.006
CO	PPM		14
NI	PPM	<	5.00
CU	PPM		7
MO	PPM	<	50.0
PB	PPM		16
ZN	PPM	<	5.00
CD	PPM	<	5.00
AG	PPM	<	2.00
AU	PPM	<	4.00
AS	PPM		29
SB	PPM		58
BI	PPM	<	100
U	PPM	<	2500
TE	PPM	<	50.0
SN	PPM	<	5.00
W	PPM	<	1200
LI	PPM		32
BE	PPM		1.8
B	PPM	<	400
ZR	PPM		36
LA	PPM		18
CE	PPM		32
TH	PPM	<	150
Hg	ppb		550

50



ELEMENT		CONCENTRATION
NA	% OX.	1.01
K	% OX.	0.842
CA	% OX.	36.53
MG	% OX.	1.41
FE	% OX.	1.70
AL	% OX.	5.60
SI	% OX.	< 1.60
TI	% OX.	0.233
F	% OX.	0.128
SR	PPM	825
BA	% OX.	0.049
V	PPM	< 250
CR	PPM	11
MN	% OX.	0.203
CO	PPM	7
NI	PPM	< 5.00
CU	PPM	13
MO	PPM	< 50.0
PB	PPM	< 10.0
ZN	PPM	689
CD	PPM	< 5.00
AG	PPM	< 2.00
AU	PPM	4
AS	PPM	< 25.0 10
SB	PPM	< 30.0
BI	PPM	< 100
U	PPM	< 2500
TE	PPM	< 50.0
SN	PPM	< 5.00
W	PPM	< 1200
LI	PPM	113
BE	PPM	0.8
B	PPM	< 400
ZR	PPM	70
LA	PPM	< 5.00
CE	PPM	< 10.0
TH	PPM	< 150
Hg	ppb	90

1035

NVC80-180

ELEMENT

CONCENTRATION

NA	% OX.		0.998
K	% OX.		0.833
CA	% OX.		36.05
MG	% OX.		1.39
FE	% OX.		1.67
AL	% OX.		5.51
SI	% OX.	<	1.60
TI	% OX.		0.230
F	% OX.		0.124
SR	PPM		819
BA	% OX.		0.048
V	PPM	<	250
CR	PPM		9
MN	% OX.		0.200
CO	PPM		7
NI	PPM	<	5.00
CU	PPM		13
MO	PPM	<	50.0
PB	PPM	<	10.0
ZN	PPM		29
CD	PPM	<	5.00
AG	PPM	<	2.00
AU	PPM	<	4.00
AS	PPM	<	25.0 10
SB	PPM	<	30.0
BI	PPM	<	100
U	PPM	<	2500
TE	PPM	<	50.0
SN	PPM	<	5.00
W	PPM	<	1200
LI	PPM		111
BE	PPM		0.7
B	PPM	<	400
ZR	PPM		68
LA	PPM	<	5.00
CE	PPM	<	10.0
TH	PPM	<	150
Hg	ppb		90

Colorado Geo Chem. Samples.

- NVC80-1 mudstone - siltst. from mine working
- NVC80-2 stained or altered mudst. from prospect pit
- NVC80-3 Same as #2, pit to the south of #2
- NVC80-4 mudst. or ss, qtz vein, mouth of adit.
- NVC80-5 clay from alt. tuff or rhy. lava flow, sec 2, T.27N
- NVC80-6 clay from alt. rhy. section 2, T.27N, R.32E
- NVC80-7 perlite? section 2 " "
- NVC80-8 Rhy alt. to clays, section 2 " "
- NVC80-9 quartz vein in siltst/mudst, from adit, Sec 11  
T.27N, R.32E,
- NVC80-10 quartz vein in siltst/mudst
- NVC80-11 rhyolite sill in mudstone-sh.
- NVC80-12 basalt sill, ridge crest, east side, sec 36.
- NVC80-13 Mine dumps, in mudst-sh. qtz veins,  
SE 1/4 of sec 36 -
- NVC80-14 clay from alt. Rhyolite sec 6, T.27N, R.33E
- NVC80-15 qtz vein in shale cut by trench, sec 6.
- NVC80-16 clay prospect with hem. staining, sec 8
- NVC80-17 alt ash-flow tuff, clay prospect.
- NVC80-18 clay prospect, alt. rhy. tuff or dome?  
NW 1/4 sec 8, T.27N, R.33E
- NVC80-19 fracture fill qtz vein in mudst. at Willard  
mine, so. area -
- NVC80-20 Qtz vein material from dump, N. Willard Mine  
SE corner, Sec 26,
- NVC80-21 alt. rhy. sill/dike, SE edge, sec 36
- NVC80-22 qtz vein and mudstone, from mine dump,  
North Willard mine

SW 1/4  
Sec 36  
T28NR 32

- NVC80-23 Qtz and calcite vein, N. Willard
- NVC80-24 qtz vein in siltst. Johnson-Heizer Mine
- NVC80-25 Sample from Montezuma mine dump,  
in the Trinity district, west of the valley.
- NVC80-103 Qtz vein breccia in fault SW $\frac{1}{4}$  Sec 26, T. 28N
- NVC80-112 Kaolinite near the range front fault.  
NW $\frac{1}{4}$  Sec 35, T. 28N, R 32E
- 113 alt. & hem. stain adesite between <sup>qtz</sup> calcite veins  
NW $\frac{1}{4}$  Sec 35
- 118 sedimentary bed siltstone? with salt taste  
west side, Section 6, T. 27N, R 33E.
- 133 Tertiary conglomerate, E. center Sec 35, T. 28N, R 32E
- 134 alt. andesite lava flow, center Section 35
- 137 qtz breccia & hem. from fault zone  
NW $\frac{1}{4}$  of Section 35, T. 28N, R 32E

State: Nev.  
 County: Pershing  
 PROJECT: Colado

SAMPLE IDENTIFICATION  
 EARTH SCIENCE LAB.

GEOLOGIST: Sibbett

NV-C-80 SAMPLE #	FIELD DESCRIPTION	UNIT & COLOR DESIGNATION	Ts	ANALYSES & NOTES
Mar 101	Tuff range front. N. Coal C.	TE	✓	partially alt? non-slightly welded tuff, <sup>de vitrified</sup> vitric, ~2% xls -
102	calcite vein	CV	✓	~5-10% porosity, Trace qtz, Trace poss. opal?
103	qtz breccia- <sup>Range fr. fault</sup>			vein qtz brecciated in range front fault,
104	qtz vein-	qv	✓	much of it is v. fine grained qtz, could be fault material, has th pseudo flow structure like mylonite -
105	mine dump. calcite cemented siltst			trace element geochem.
106	near So. Willard Mine shale - mudstone	JR <sub>5</sub> Jas or Ts	✓	slate - meta-silty shale or slaty mudstone
107	Basalt or <del>andesite</del>	ba Tbs	✓	basalt, Tholeiitic, <sup>calcite alt</sup> ave ~0.3-4 mm xl size diabasic texture
108	rhyolite dike	Trd	✓	hypocrystalline to Holohyaline, leucocratic, <sup>Partially devitrif. ~70%</sup> partially alt-sericite & chert
Apr 1086	steep hill, N. along range front. quartzite - <sup>Gray wacke</sup>	JR <sub>9</sub> Jag	✓	silicified argillaceous siltstone, <sup>Feldspars</sup> poss. some opal? or chert, <sup>Gray wacke</sup> <sup>0.1 mm grains</sup>
109	E. of 2nd Getty hole rhyolite	Tt Fr?	✓	totally recrystallized to qtz & feldspar - poss. flow or tuff? <sup>ghost</sup> xls -
→ 110	basalt - SW. of Gypsum Mtn west of Gypsum Mtn		✓	For whole rock age date Pre-lake Lahontan - fresh - some alt. of olivine to pyrox?
111	kaolinite - alt Rhy.			For geochem.
112	red canyon-range front kaolinite - alt rhy	Tt		geochem -
113	red canyon-range front hem. stain andesite	Ta	✓	geochem highly alt. poss. andes. @ flow - Feldspar, biotite & opaque, poss. clay
114	hem. stain andesite	Ta	✓	andesite or dacite flow, <sup>alt. qtz, sericite, chlorite</sup> all, plag. & hornb. - Fair K. content.
115	petrified wood	Tal <sub>2</sub>	✓	Possible dating poor preservation
116	<sup>over Tal<sub>2</sub> E Willard mine</sup> <del>Welded</del> - red tuff	Tt <sub>2</sub>	✓	non-welded, but silic-cemented tuff
117	NE of Willard Mine <del>pumice flow?</del>	Trp Tt.	✓	welded vitric tuff + <sup>few lithic frag - &amp; silt grains</sup> Few ~5% embayed - euh qtz,
118	silt stone? <sup>qz salt</sup> <del>kaolinite alt</del>	J <del>red</del>	✓	chemical analysis - Taste of salt, K-feldsp matrix rectangular isotropic HCl xls, cordierite porphblast
119	L <sub>1</sub> Dacite? poss. <del>alt</del> in Jas.	<del>Ta</del> <del>Td</del>	✓	Thin section matrix alt-plag + Sericite plag pheno s'wed, and - opaque s.
120	rhyolite vol. plug	Tri	✓	age date? 90% devitrification, spherulites, qtz filling <sup>vugy</sup> open spaces
9511	Petrified wood	From Tal		

State: Nev.  
 County: Pershing  
 PROJECT: Colorado

SAMPLE IDENTIFICATION  
 EARTH SCIENCE LAB.

GEOLOGIST: C Sibbett

NV-C-80 SAMPLE #	FIELD DESCRIPTION	UNIT & COLOR DESIGNATION	Ts	ANALYSES & NOTES
April 121	on N. flank Gypsum Mtn. JRW Jag? gtzite bed.	JRW gtz-	no	note bedding?
122	gtzite some ridge	JRW or JR9	✓	mostly an intrusive sill into quartzite 0.05 mm & smaller grains
Photo 1-54 #6 123	diorite? intrusive	Jd Kd?	✓	age date if possible Mostly alt. - Diorite, plag-hornb, gtz
124	or formational breccia chert cong.			cut sample-
Photo 1-54 #8 125	breccia from volcanic plag-rhy	Tri	≠	cut sample
Photo 1-54 #9 126	SE part of area limestone breccia	Jts 1sb	✓	micrite clast in calcite sand matrix, cut sample few siltst clast. - solution porosity-
Photo 1-54 #10 127	sill with sulfides	? Trd?	✓	alt. calcite & sericite
1-54 #10 128	sill, with sulfides		✓	
1-54 #11 129	perlite	Tp	✓	glass - microlite, clay
1-54 #11 130	T. Rhyolite flow?	Trf	✓	Flow - alt. devitrified glass - poss. minor glass left
Photo 1-52 #19 131	white spotted dike rhy? dike	Trd	✓	E. in Coal Canyon spots are alt. K-Feld. hem. in matrix
1-72 #20 132	E. side study area pink limestone	Tis	✓	micrite calcite -
1-53 133	Road to Willard Mine Tertiary gravel over Ta	Tal		analyze for gold.
134	alt. andesite flow	Ta	✓	strongly alt. flow - andesitic chemical analysis actinolite, calcite
135	Andesite flow, youngert	Ta	✓	strongly alt. amphiboles of gtz, & zeolites, chlorite sericite
136	hem. stain Andesite next ca. v.	Ta	✓	Totally alt. clay, gtz, hem. ?
137	hem. stain gtz breccia in rhy-	Tt		geochem. analysis
138	tuff breccia dike	Trd	✓	vesicular, glassy - few pheno of gtz
May 12/73 138 opp 2	Sandy clastic ls clastic limestone	Jts ? JRI	✓	~1 mm grains - couple of microfossils. Mostly crystalline calcite clast. ~1/4 quartz
139	Madst <sup>c</sup> calcareous slate or Marl?	Jts Jas or Ka	✓	.03 mm grain size Marl? ~1/2 silt & 1/3 calcite & 1/6 mica.



Operator

14-22

Well No.

Section: 22 TWP. 28N RNGE. 32E County: Pershing State: Nevada

Date: May 8, 1979

Depth (ft.)                      Temperature (°F)

Surface	13.3°C	55.9°
50. . . . .	71.4°C	160.5°
100. . . . .	98.7°C	209.7°
150. . . . .	112.1°C	233.8°
200. . . . .	112.6°C	234.7°
250. <u>76.2m</u> . . . . .	113.5°C	236.3
300. . . . .	113.3°C	235.9°
350. . . . .	112.6°C	234.7°
400. . . . .	111.5°C	232.7°
450. . . . .	110.9°C	231.6°
500. . . . .	110.3°C	230.0°

*sand zone*

*Pyrite (& grn silicified clast) zone*

152 m -

Survey By: W. A. Shaw



Operator

13-26

Well No.

Section: 26 TWP. 28N RNGE. 32E County: Pershing State: Nevada

Date: April 20, 1979

Depth (ft.)

Temperature (°F)

Surface	16.8°C	62.2°
50.	53.0°	127.4°
100.	67.7°	153.9°
150.	79.7°C	175.5°
200.	88.2°C	190.8°
250.	93.4°C	200.1°
300.	97.2°C	206.7°
350.	96.5°C	205.7°
400.	95.0°C	203.0°
450.	94.2°C	201.6°
500.	93.1°C	199.6°

hole	Temp <sup>c</sup>	feet
3-10	27.4	500
6-6	20.	500
7-4	73.	300/500
5-8	35.5	300/500
4-16	33.	487
12-26	26.6	400/20
11-36	23.7	500
7-12	19.9	500
2-2	23.8	500
10-34	88.	500
9-34	78	500
8-34	43.5	300/500
13-26	97	300/500
17-24	28.6	500
18-24	25	500
15-21	26	500
14-22	113.5	250/500
16-22-78		150/500

base alluvium  
 Top of siltstone  
 slate

Survey By: W. A. Shaw

Return to <sup>Brace</sup> Ross



Getty Oil Company | P. O. Box 5237, Bakersfield, California 93388 • Telephone: (805) 399-2961

Western Exploration and Production Division

July 3, 1980

Contracting Officer  
Department of Energy  
P. O. Box 1400  
Las Vegas, Nevada 89114

Attn: Engineering and Energy Applications Division

Re: Contract DE-AC08-79ET-27008  
Colado Area, Nevada  
Period 6-1-80 to 7-1-80  
Report #16

Gentlemen:

The Dresser-Atlas Company ran a temperature log on the IGH #1 in Section 26, T. 28 N., R. 32 E., and the IGH #2 in Section 10, T. 27 N., R. 32 E., Pershing County, Nevada.

As already indicated on the first log run in May, the gradients for each well responded as originally recorded. The shallow hot water aquifer is present in the IGH #1 with a slight reversal noted on the log after the Sonde has passed through the zone. In the IGH #2, a positive gradient of approximately 7°F./100' is noted to total depth of the hole. Assuming this constant to 7500', <sup>HA</sup> a maximum temperature of 525°F. might be present at total depth.

A location study is underway to determine the most logical area to drill a test well to a proposed depth of 7500'.

Very truly yours,  
GETTY OIL COMPANY

O/S N. J. KAPPELER

N. J. Kappeler  
Division Exploration Manager

NJK:WAS:ges

cc: Dr. H. P. Ross  
Earth Science Laboratory  
University of Utah Research  
420 Chipeta Way, Suite 120  
Salt Lake City, Utah 84108

Joe Fiore

D	T	
2500'	340°F ←	Assume 200°F @ 500'
3500'	410°F ←	140°F @ 7°F/100' for 2000'
		210°F @ 7°F/100' for 3000'

Question: At what depth does temp. reversal occur or isotherm?



667-  
8005

A hand-drawn scribble or signature-like mark located below the text '667-8005', consisting of several overlapping, dark, irregular shapes.