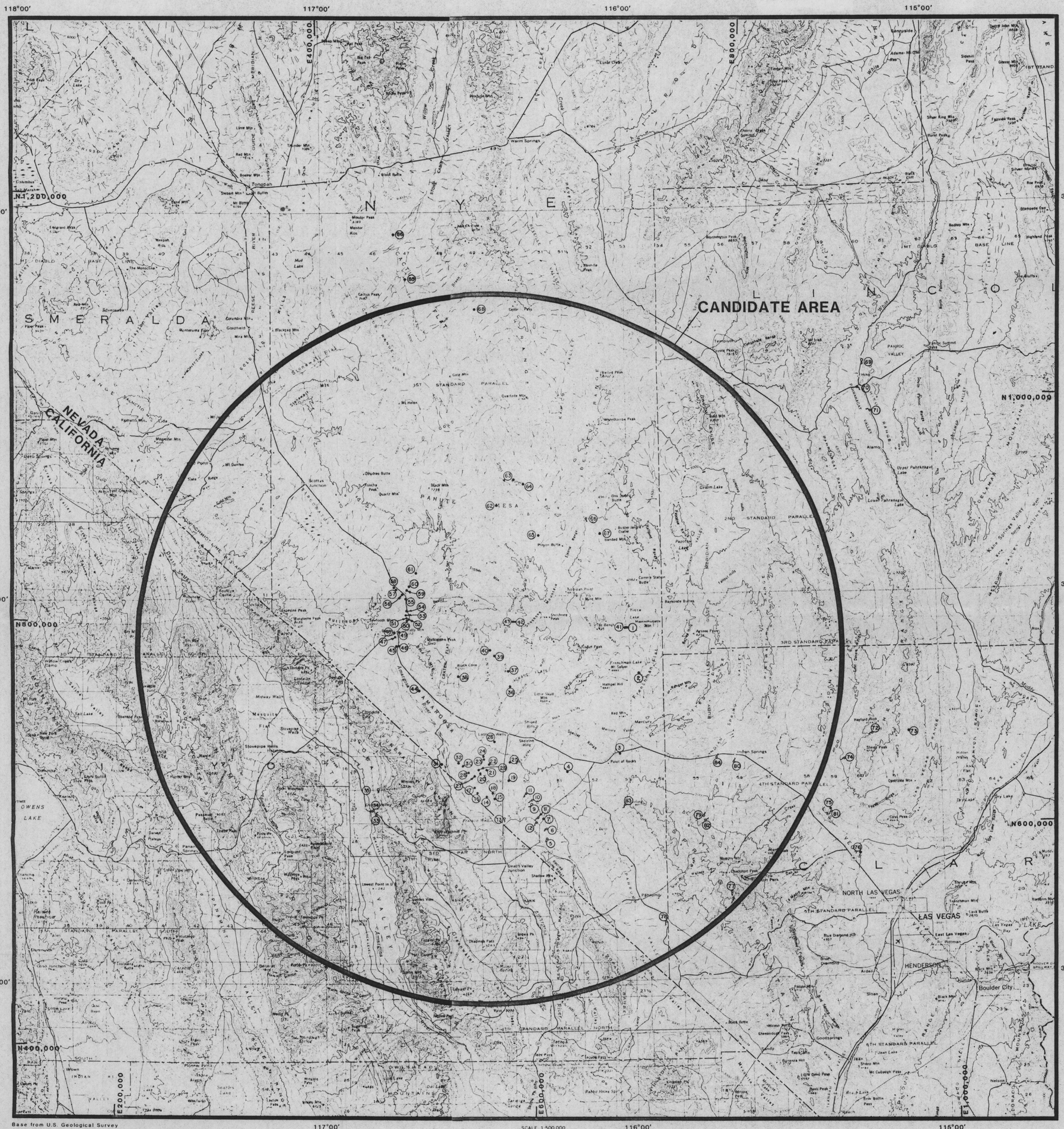
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Prepared in cooperation with the
UNITED STATES DEPARTMENT OF ENERGY

WATER RESOURCES INVESTIGATIONS REPORT 84-4267



Base from U.S. Geological Survey
Caliente, Death Valley, Goldfield, Las Vegas, 1:250,000, 1954

CONTOUR INTERVAL 500 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

SCALE 1:500,000
10 0 10 20 MILES
10 0 10 20 KILOMETERS

EXPLANATION

④ SITE NUMBER
- • Well
- ♀ Spring
- ○ Sinkhole

HYDROGEN, OXYGEN AND CARBON-14 ISOTOPIC DATA FROM GROUND-WATER SAMPLES

^{14}C IS UNCORRECTED CARBON-14 AGE OF GROUND WATER; δD AND $\delta^{18}O$ ARE PER MIL DEVIATIONS OF DEUTERIUM AND OXYGEN-18 CONTENTS MEASURED RELATIVE TO ISOTOPIC CONTENTS OF STANDARD MEAN OCEAN WATER

SITE NO.	NAME/LOCATION	^{14}C	δD	$\delta^{18}O$
1.	Well C-1	28,200	-114	----
2.	Well 5B	14,800	-110	----
3.	Well Army 1	28,700	-106	----
4.	16S/51E-23	32,300	----	-13.6
5.	Big Spring	28,400	-102	-13.5
6.	King Spring	32,700	-104	-13.6
7.	Devil's Hole	28,700	----	-13.6
8.	Scruggs Spring	26,200	-103	----
9.	Longstreet Spring	29,000	-103	----
10.	Rogers Spring	33,700	-102	----
11.	Fairbanks Spring	31,800	-103	-13.6
12.	Crystal Pool	17,300	-102	-13.7
13.	Ash Tree Spring	15,900	-102	-12.4
14.	17S/49E-8ddb	10,300	-102	-13.0
15.	17S/49E-15bbd	7,350	----	----
16.	17S/49E-7bb	18,500	-104	-12.7
17.	17S/48E-1ab	13,600	-104	-13.0
18.	17S/49E-9aa	13,400	-105	-12.8
19.	16S/49E-36aaa	18,300	-104	-13.7
20.	16S/49E-19daa	12,600	-101	-13.1
21.	16S/49E-16ccc	11,200	-97.5	-13.2
22.	16S/48E-15dda	12,200	-103	-13.4
23.	16S/49E-8abb	12,400	-99.5	-13.2
24.	16S/49E-5acc	13,200	-103	-13.7
25.	16S/50E-7bcd	21,400	-105	-13.8
26.	15S/49E-22dc	14,900	-107	-12.8
27.	16S/48E-25aa	13,700	-102	-13.0
28.	16S/49E-23add	10,400	-99	-13.2
29.	16S/49E-18dc	10,100	-102	-12.6
30.	16S/48E-15aaa	14,200	-103	-13.4
31.	16S/48E-7ccc	9,300	-102	-13.1
32.	16S/48E-10cba	14,900	-102	-13.4
33.	Travertine Spring	----	-109	----
34.	Texas Spring	23,100?	-108	----
35.	Nevares Spring	24,000?	-109	----
36.	Well J-12	9,100	-97.5	-12.8
37.	Well J-13	9,900	-97.5	-13.0
38.	Well USW VH-1	17,000	-108	-14.2
39.	Well USW UE-25b 1-H	14,100	-101	-13.4
40.	Well USW H-1	13,000	-102	-13.4
41.	Well C	22,500	----	----
42.	UE-25a#1	2,780	----	----
43.	UE-29a#2	4,300	-93.0	-13.1

SITE NO.	NAME/LOCATION	^{14}C	δD	$\delta^{18}O$
44.	Nuclear Engr. Co. Well 1	10,000	-112	----
45.	11S/47E-19adc	604	-104	-13.3
46.	12S/47E-20bbb	----	-106	-13.6
47.	12S/47E-7dba	3,500	-108	-13.9
48.	12S/47E-6cdd	----	-102	-13.3
49.	11S/47E-5cda	8,620	-108	-14.1
50.	11S/47E-28dac	----	-109	-14.1
51.	11S/47E-28acc	----	-108	-14.1
52.	11S/47E-27cba	9,250	----	----
53.	11S/47E-21dbb	----	-108	-14.0
54.	11S/47E-16dca	----	-110	----
55.	11S/47E-4cad	----	-108	-14.0
56.	11S/47E-32dda	----	-102	-13.4
57.	10S/47E-31aab	----	-102	-13.3
58.	10S/47E-30bbc	8,430	-102	-13.4
59.	10S/47E-33aab	0	-108	-14.0
60.	10S/47E-27cba	7,580	-110	-14.3
61.	10S/47E-14bab	21,500	-112	-14.5
62.	Well U-20a?	15,100	-114	-14.8
63.	Well UE-19gs	----	-114	-14.5
64.	Well UE-19e	----	-110	-14.0
65.	Well B	11,000	-104	-13.0
66.	Whiterock Springs	----	-82.0	-10.2
67.	Well 2	15,200	----	----
68.	U.S. Air Force Well B-1	----	-110	-14.0
69.	Hiko Spring	22,000	-113	----
70.	Crystal Spring	20,500	-109	-14.3
71.	Ash Spring	22,900	----	----
		21,600	-108	-14.1
72.	Wiregrass Spring	----	-94.0	-13.1
73.	Horman Well	----	-92.5	-13.2
74.	Cow Camp Spring	----	-90.5	-12.9
75.	Corn Creek Ranch Well	----	-97	----
76.	Tule Springs Well	----	-103	----
77.	Trout Spring	----	-102	----
78.	Manse Spring	----	-104	----
79.	Cold Creek Spring	2,950	-106	----
80.	Indian Springs	19,500	-104	----
81.	Corn Creek Spring	13,900	----	----
82.	Willow Spring	1,800	----	----
83.	Grapevine Spring	12,800	----	----
84.	Cactus Spring	13,700	----	----
85.	Well 9A	9,900	----	----
86.	Well 7	19,200	----	----

SOURCES OF DATA

Benson, Robison, Blankennagel, and Ogard, 1983
Claassen, 1983
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Schroder, Beetem, Claassen, and Emerson, 1973
White, Lawrence Berkeley Laboratory, written commun., 1982
Winograd and Friedman, 1972
Winograd and Pearson, 1976
U.S. Geological Survey Files, including WATSTORE files

SI APERTURE CARD

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D-05

TRUE NORTH
16°
MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION

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