MAP GP-977

DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

COMPOSITE MAGNETIC ANOMALY MAP OF THE CONTERMINOUS UNITED STATES WEST OF 96° LONGITUDE

By Kevin R. Bond and Isidore Zietz

GEOPHYSICAL INVESTIGATION MAP
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BOND AND ZIETZ—COMPOSITE MAGNETIC ANOMALY MAP, WESTERN U.S. 1:2,500,000 MAP GP-977

COMPOSITE MAGNETIC ANOMALY MAP OF THE CONTERMINOUS UNITED STATES WEST OF 96° LONGITUDE

By

Kevin R. Bond and Isidore Zietz

Assisted by

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The accompanying magnetic-anomaly map of the conterminous United States west of 96° longitude and adjacent offshore areas is intended to provide a synoptic view of magnetic anomalies and is not meant to represent the best data currently available. The map is consistent in scale and projection with that of the tectonic map (U.S. Geological Survey and American Association of Petroleum Geologists, 1961), gravity anomaly map (Society of Exploration Geophysicists, 1982), Bouguer gravity anomaly map (American Geophysical Union, 1964), basement rock map (Bayley and Muehlberger, 1968), geologic map (King and Beikman, 1974), and magnetic anomaly map (Zietz, 1982) of the conterminous United States. This map differs from the previously published composite magnetic-anomaly map of the conterminous United States in two ways: (1) the contour interval is 100 gammas, and (2) large areas of older data have been replaced with more recent surveys, most often with data from the National Uranium Resource Evaluation (NURE) program of the U.S. Department of Energy.

The NURE data, acquired for each 1° by 2° quadrangle in the conterminous United States and referenced to the 1975 International Geomagnetic Reference Field (1975 IGRF), were obtained at an altitude of 400 feet mean terrain clearance generally in an east-west direction and with flightline spacings ranging from 0.5 to 6 miles, but most commonly 3 miles. Consequently, this data set provided a consistent base net for the compilation of magnetic-anomaly data for areas of large regional extent. The NURE data were available on magnetic tape and in the form of analog aeromagnetic profiles at a scale of 1:500,000. Since the compilation was a purely analog effort all profile data were reduced to a planimetric base at this scale and contoured by hand, this process served as a low-pass filter.

Generally, the NURE data were used for compilation except where large areas of data with closer flightline spacings existed; approximately 70% of this map consists of data from the NURE program. However, in some cases (such as in the states of Nevada and Minnesota) the disparity between the existing closer-spaced data and the NURE data was so great that a satisfactory merge could not be effected. Consequently, the NURE data were used. Flight altitudes, directions, and spacings of the non-NURE data sources varied widely; no attempt was made to analytically continue magnetic-anomaly data to a common level. These data were also referenced to various geomagnetic reference fields (mainly the 1965 IGRF and 1975 IGRF) which approximate the earth's main magnetic field. The removal of a geomagnetic reference field enhances the crustal-field information and makes the results of surveys made at different times or in different regions more comparable. All merging of data was accomplished visually through arbitrary datum level shifts.

On the basis of comparisons with aeromagnetic anomaly data of the U.S. Naval Oceanographic Office and the NURE program, it is inferred that the relative zero level of the compiled map is approximately 1,000 gammas higher than the absolute zero level of these data based on the 1975 IGRF. Because the quality of the map is limited by the diversity of the data types incorporated herein, data-aquisition specifications, and compilation techniques, it is strongly recommended that the map be used only at the 1:2,500,000 publication scale or smaller scales of interest in broad regional qualitative investigations. For more detailed work at scales larger than the 1:2,500,000 publication scale, original data sources should be used.

Compilation involved the following steps: (1) Magnetic-anomaly data of a given survey were studied to ensure that a geomagnetic reference field at the time of the survey was subtracted (Fabiano and Peddie, 1969; Barraclough and Fabiano, 1978; Fabiano and others, 1982). (The few surveys used in the compilation of the map which were flown before 1965 were limited in extent and did not contain a correction for the earth's magnetic field at this step); (2) data at a very large scale and/or containing too much detail to be shown at a scale of 1:2,500,000 were generalized, and only the main magnetic trends were drawn, in effect, filtering out the finer details; (3) contour lines at an interval of 100 gammas were then selected; (4) the map of the selected contour lines was reduced to the compilation scale of 1:1,000,000; (5) the reduced map was placed on an Albers equal-area base map of the western United States; (6) minor level shifts were introduced as each survey was added to the composite to bring all data to a common base level; (7) near the boundaries of adjacent surveys, contour lines were visually joined as smoothly as possible; and (8) the completed map at the 1:1,000,000 compilation scale was photographically reduced to the 1:2,500,000 publication scale.

As an independent check on the general anomalies and gradients of the compilation, profiles from the completed map were compared with a series of north-south aeromagnetic traverses flown by the U.S. Naval Oceanographic Office (NOO). These traverses were flown in 1976 and 1977 and were spaced approximately one degree of longitude apart over the conterminous United States and referenced to the 1975 IGRF. After bringing both data sets to a common datum level, this comparison showed that the two data sets agreed within 100 gammas. However, since the completion of the compilation of this map, it has been determined that the 1975 IGRF, upon which this map is based, is slightly in error compared to the most recent 1980 IGRF (Peddie, 1983). The usage of this IGRF has produced an artificial northwest-southeast gradient across the map, with anomaly values higher in the northwest and lower in the southeast.

The authors would like to express their utmost appreciation to Frederic Riggle and Stephen Snyder for their efforts in the tremendous task of compiling and generalizing the many hundreds of surveys that make up this map.

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The direction, altitude, and spacing of traverses are shown below. All flight directions are East-West unless otherwise noted.

1 Unknown, sea level, 5–10 kilometers (Tiffin and Currie, 1976)
2 Sea level, 10 nautical mile (Couch and others, 1978)
3 500 feet above sea level, 2 mile (USGS, 1980h)
4 North-South, 4200 feet above sea level, 2 mile (USGS, 1980g)
5 Sea level, 5 nautical mile (Raff and Mason, 1961)
6 15,000 feet barometric, 5 mile (Zietz and others, 1971)
7 2500 feet above sea level, 2 mile (USGS, 1980i)
8 7000 feet barometric, 3 mile (USGS, 1984c)
9 2500 feet above sea level, 2 mile (USGS, 1980f)
10 400 feet above ground, 6 mile (High Life/QEB, 1981b)
11 North-South, 3000 feet barometric, 1 mile (USGS, 1974f)
12 North-South, 3000 feet barometric, 2 mile (USGS, 1977a)
13 3000 feet barometric, 2 mile (USGS, 1978a)
14 7000 feet barometric, 1 mile (Thompson, 1973)
15 400 feet above ground, 6 mile (High Life/QEB, 1981c)
16 7000 feet barometric, 3 mile (USGS, 1984d)
17 500 feet above sea level (offshore), 3500 feet above sea level (onshore), 2 mile (USGS, 1970)
18 3000 feet barometric, 2 mile, (USGS, 1984a)
19 1000 feet above ground, 0.5 mile (Henderson and others, 1958a)
20 1000 feet above ground, 0.5 mile (Henderson and others, 1958g)
21 1000 feet above ground, 0.5 mile (Henderson and others, 1958b)
22 1000 feet above ground, 0.5 mile (Henderson and others, 1958h)
23 1000 feet above ground, 0.5 mile (Henderson and others, 1958c)
24 1000 feet above ground, 0.5 mile (Henderson and others, 1958i)
25 1000 feet above ground, 0.5 mile (Henderson and others, 1958d)
26 1000 feet above ground, 0.5 mile (Henderson and others, 1958j)
27 1000 feet above ground, 0.5 mile (Henderson and others, 1958e)
28 1000 feet above ground, 0.5 mile (Henderson and others, 1958k)
29 1000 feet above ground, 0.5 mile (Henderson and others, 1958f)
30 1000 feet above ground, 0.5 mile (Henderson and others, 1958l)
31 1000 feet above ground, 0.5 mile (Henderson and others, 1958m)
32 1000 feet above ground, 0.5 mile (Henderson and others, 1958n)
33 400 feet above ground, 6 mile (Geo-Life, 1981b)
34 Northeast-Southwest, 1000 feet above mean terrain, 0.5 mile (United Engineers and Constructors, 1978)
35 1000 feet above ground, 0.5 mile (USGS, 1982a)
36 9500 feet barometric, 1 mile (USGS, 1977c)
37 10,000 feet barometric, 1 mile (Staatz and others, 1971)
38 10,000 feet barometric, 1 mile (USGS, 1976a)
39 500 feet above ground, 0.25 mile (Hunting Geophysical Services, 1960)
40 7000 feet barometric, 2 mile (USGS, 1973d)
41 500 feet barometric, 1 kilometer (USGS, 1982b)
42 8000 feet barometric, 1 mile (USGS, 1975g)
43 North-South, 500 feet above ground, 1 mile (Robbins and others, 1975)
44 400 feet above ground, 3 mile (Texas Instruments, 1979c)
45 400 feet above ground, 6 mile (Texas Instruments, 1979c)
46 7000 feet barometric, 1 mile (USGS, 1974e)
47 400 feet above ground, 1 mile (LKB Resources, 1979b)
48 400 feet above ground, 3 mile (LKB Resources, 1979b)
49 400 feet barometric, 5 to 14 mile (Bromery and Snavely, 1964)
50 1000 feet above ground, 0.5 mile (Bromery, 1965)
51 750 feet above ground, 0.5 mile (Bromery, 1962)
52 400 feet above ground, 6 mile (Geo-Life, 1981a)
53 400 feet above ground, 3 mile (Geo-Life, 1981a)
54 400 feet above ground, 3 mile (LKB Resources, 1978)
55 7000 feet barometric, 2 mile (USGS, 1973e)
56 7000 feet barometric, 2 mile (USGS, 1973c)
57 11,000 feet barometric, 2 mile (USGS, 1973c)
58 7000 feet barometric, 1 mile (Kleinkopf and others, 1972)
59 400 feet above ground, 3 mile (Geodata, 1981r)
60 6000 feet barometric, 3 mile (USGS, 1984b)
61 400 feet above ground, 6 mile (Western Geophysical, 1981f)
62 Northeast-Southwest, 6500 feet barometric, 1 mile (USGS, unpublished)
63 10,000 feet above sea level, 1 mile (Couch and others, 1978a)
64 7500 feet barometric, 3 mile (USGS, 1984e)
65 North-South, 9500 feet barometric, 1 mile (USGS, 1978e)
66 7000 feet barometric, 1 mile (Couch and others, 1978a)
67 400 feet above ground, 3 mile (Geo-Life, 1978a)
68 400 feet above ground, 6 mile (Geodata, 1981q)
69 400 feet above ground, 6 mile (Geodata, 1981t)
70 400 feet above ground, 6 mile (Geo-Life, 1979k)
71 400 feet above ground, 3 mile (Geo-Life, 1979k)
72 400 feet above ground, 3 mile (GeoMetrics, 1980b)
73 4500 feet barometric, 0.5 mile (Balsey and others, 1960)
74 4500 and 6500 feet barometric, 1 mile (USGS, 1979a)
75 9000 feet above sea level, 2 mile (USGS, 1973b)
76 9000 feet above sea level, 2 mile (USGS, 1972d)
77 9000 feet barometric, 2 mile (USGS, 1972b)
78 400 feet above ground, 3 mile (Geodata, 1980f)
79 400 feet above ground, 3 mile (Geo-Life, 1979p)
80 400 feet above ground, 6 mile (Geo-Life, 1979p)
81 400 feet above ground, 3 mile (Western Geophysical, 1979f)
82 400 feet above ground, 3 mile (Geo-Life, 1979g)
83 North-South, 7500 feet barometric, 1 mile (Douglas, 1971)
84 9000 feet barometric, 1 mile (Kleinkopf and Mudge, 1972)
85 Northeast-Southwest, 9000 feet barometric, 2 mile (Kleinkopf and Mudge, 1972)
86 9000 feet barometric, 2 mile (USGS, 1969a)
87 Variable, sea level, variable (Emilia and others, 1968)
88 Northeast-Southwest, 2900 meters barometric, 8 kilometer (unpublished data)
89 400 feet above ground, 6 mile (Western Geophysical, 1981l)
90 400 feet above ground, 6 mile (Western Geophysical, 1981i)
91 8500 feet barometric, 1 mile (Hotz and others, 1972)
92 400 feet above ground, 6 mile (Western Geophysical, 1981n)
93 9000 feet barometric, 1 mile (Couch, 1982)
94 Unknown, 7000 to 9000 feet barometric, unknown (Calif. Div. of Mines and Geology, 1979)
95 400 feet above ground, 3 mile (Geo-Life, 1979m)
96 400 feet above ground, 3 mile (Geo-Life, 1979u)
97 400 feet above ground, 3 mile (Geo-Life, 1979n)
98 400 feet above ground, 6 mile (Geodata, 1981i)
99 400 feet above ground, 3 mile (Geodata, 1981p)
100 400 feet above ground, 6 mile (Western Geophysical, 1979c)
101 400 feet above ground, 3 mile (Geo-Life, 1979e)
102 400 feet above ground, 3 mile (Geodata, 1979c)
103 Unknown (Affleck, 1962)
104 400 feet above ground, 6 mile (Western Geophysical, 1981h)
105 Unknown (Calif. Div. of Mines and Geology, 1978)

106 4500 feet barometric, 1 mile (USGS, 1973f)
107 7000 feet barometric, 1 mile (Brown and others, 1978)
108 400 feet above ground, 6 mile (High Life/QEB, 1981a)
109 400 feet above ground, 3 mile (High Life/QEB, 1981a)
110 Northeast-Southwest, 500 feet above ground, 1 mile (Meuschke and others, 1966)
111 400 feet above ground, 3 mile (Western Geophysical, 1981k)
112 400 feet above ground, 6 mile (Western Geophysical, 1981m)
113 400 feet above ground, 3 mile (Geo-Life, 1978d)
114 400 feet above ground, 3 mile (Geo-Life, 1978b)
115 9000 feet barometric, 2 mile (USGS, 1972a)
116 400 feet above ground, 3 mile (Geo-Life, 1978c)
117 400 feet above ground, 3 mile (Geo-Life, 1979f)
118 400 feet above ground, 3 mile (Geo-Life, 1979o)
119 400 feet above ground, 3 mile (Geo-Life, 1979a)
120 400 feet above ground, 3 mile (High Life, 1980)
121 400 feet above ground, 3 mile (Geo-Life, 1979q)
122 400 feet above ground, 3 mile (Texas Instruments, 1979b)
123 North-South, 400 feet above ground, 6 mile (Texas Instruments, 1979b)
124 400 feet above ground, 2 mile (Texas Instruments, 1979b)
125 400 feet above ground, 6 mile (Geo-Life, 1979j)
126 400 feet above ground, 3 mile (Geo-Life, 1979j)
127 400 feet above ground, 6 mile (Geo-Life, 1979l)
128 400 feet above ground, 3 mile (Geo-Life, 1979l)
129 400 feet above ground, 3 mile (Geo-Life, 1979i)
130 400 feet above ground, 3 mile (GeoMetrics, 1980f)
131 400 feet above ground, 3 mile (GeoMetrics, 1980f)
132 400 feet above ground, 3 mile (Geodata, 1981s)
133 400 feet above ground, 3 mile (Geo-Life, 1979t)
134 400 feet above ground, 3 mile (GeoMetrics, 1979a)
135 400 feet above ground, 1 mile (GeoMetrics, 1979a)
136 400 feet above ground, 3 mile (Geodata, 1980b)
137 400 feet above ground, 3 mile (Geodata, 1980d)
138 400 feet above ground, 6 mile (Geodata, 1980d)
139 12,000 feet barometric, 1 mile (USGS, 1973g)
140 400 feet above ground, 3 mile (Western Geophysical, 1979b)
141 400 feet above ground, 3 mile (High Life and Geodata, 1979)
142 400 feet above ground, 6 mile (High Life/QEB, 1981d)
143 400 feet above ground, 3 mile (GeoMetrics, 1979e)
144 400 feet above ground, 2 mile (GeoMetrics, 1979e)
145 400 feet above ground, 3 mile (LKB Resources, 1979c)
146 400 feet above ground, 2 mile (GeoMetrics, 1979h)
147 400 feet above ground, 6 mile (GeoMetrics, 1980c)
148 400 feet above ground, 3 mile (Geodata, 1980c)
149 400 feet above ground, 3 mile (GeoMetrics, 1979f)
150 400 feet above ground, 6 mile (High Life/QEB, 1981e)
151 400 feet above ground, 3 mile (High Life/QEB, 1981e)
152 400 feet above ground, 6 mile (Geodata, 1981j)
153 4000 feet barometric, 3 mile (USGS, 1981b)
154 400 feet above ground, 1 mile (GeoMetrics, 1979b)
155 400 feet above ground, 3 mile (GeoMetrics, 1979b)
156 400 feet above ground, 3 mile (GeoMetrics, 1979h)
157 400 feet above ground, 3 mile (GeoMetrics, 1979c)
158 400 feet above ground, 6 mile (Geodata, 1981h)
159 400 feet above ground, 6 mile (Geodata, 1981f)
160 400 feet above ground, 6 mile (Geodata, 1981o)
161 400 feet above ground, 6 mile (GeoMetrics, 1980d)
162 400 feet above ground, 3 mile (GeoMetrics, 1979d)
163 400 feet above ground, 3 mile (Geodata, 1979g)
164 400 feet above ground, 3 mile (Geodata, 1979h)
165 400 feet above ground, 6 mile (Geodata, 1981k)
166 4500 feet above sea level, 2 mile (Yarger and others, 1980)
167 400 feet above ground, 6 mile (Geodata, 1981e)
168 400 feet above ground, 6 mile (Geodata, 1981c)
169 400 feet above ground, 6 mile (Geodata, 1981a)
170 400 feet above ground, 6 mile (Geodata, 1981b)
171 400 feet above ground, 6 mile (Geodata, 1981d)
172 400 feet above ground, 6 mile (Geodata, 1981n)
173 3500 feet barometric, 3 mile (USGS, 1981a)
174 400 feet above ground, 6 mile (Geodata, 1981m)
175 400 feet above ground, 6 mile (Geodata, 1981l)
176 400 feet above ground, 6 mile (Geodata, 1981g)
177 3000 feet above sea level, 2 mile (Yarger and others, 1980)
178 400 feet above ground, 5 mile (Texas Instruments, 1978a)
179 400 feet above ground, 6 mile (Western Geophysical, 1981d)
180 400 feet above ground, 6 mile (Western Geophysical, 1981j)
181 400 feet above ground, 6 mile (Western Geophysical, 1981c)
182 400 feet above ground, 6 mile (Western Geophysical, 1981a)
183 400 feet above ground, 6 mile (Western Geophysical, 1981e)
184 400 feet above ground, 6 mile (Western Geophysical, 1981b)
185 400 feet above ground, 3 mile (GeoMetrics, 1978b)
186 400 feet above ground, 6 mile (Western Geophysical, 1981g)
187 400 feet above ground, 6 mile (GeoMetrics, 1980c)
188 400 feet above ground, 3 mile (Geo-Life, 1979v)
189 400 feet above ground, 5 mile (Texas Instruments, 1978a)
190 Unknown (unpublished data)
191 Northeast-Southwest, 3000 feet above sea level, 1 mile (USGS, 1974c)
192 1000 feet above ground, 0.5 mile (USGS, 1969c)
193 1000 feet above ground, 0.5 mile (Henderson and others, 1966)
194 400 feet above ground, 3 mile (High Life, 1981b)
195 11,500 feet above sea level, 1 mile (Tooker and others, 1970)
196 400 feet above ground, 3 mile (High Life/QEB, 1980b)
197 13,500 feet above sea level, 1 mile (USGS, 1974d)
198 400 feet above ground, 3 mile (Geo-Life, 1979c)
199 7000 feet barometric (south half), 8000 feet barometric (north half) 1 mile (Bath and others, 1983)
200 400 feet above ground, 3 mile (Geo-Life, 1980b)
201 400 feet above ground, 6 mile (High Life/QEB, 1980b)
202 400 feet above ground, 3 mile (Geodata, 1980e)
203 400 feet above ground, 3 mile (Geo-Life, 1980a)
204 400 feet above ground, 3 mile (Western Geophysical, 1979c)
205 400 feet above ground, 2 mile (Western Geophysical, 1979d)
206 400 feet above ground, 3 mile (Texas Instruments, 1980b)
207 400 feet above ground, 5 mile (Texas Instruments, 1978a)
208 Northeast-Southwest, 3000 feet above sea level, 1 mile (USGS, 1974b)
209 2500 feet barometric, 1 mile (USGS, 1969b)
210 8000 feet barometric, 1 mile (USGS, 1969b)
211 13,500 feet barometric, 1 mile (USGS, 1969b)
212 Northeast-Southwest, 2000 feet above sea level, 1 mile (USGS, 1977b)
213 Unknown (unpublished data)
214 Northeast-Southwest, 6500 feet barometric, 1 mile (Hanna, 1970)
215 Northeast-Southwest, 6500 feet above sea level, 1 mile (USGS, 1974a)
216 400 feet above ground, 3 mile (High Life, 1981a)
217 Unknown (Blake and others, 1978)
218 North-South, 400 feet above ground, 1 mile (Geo-Life, 1979s)
219 400 feet above ground, 3 mile (Western Geophysical, 1979a)

220 400 feet above ground, 1 mile (Western Geophysical, 1979a)
221 400 feet above ground, 6 mile (Western Geophysical, 1979a)
222 400 feet above ground, 3 mile (LKB Resources, 1980c)
223 400 feet above ground, 3 mile (LKB Resources, 1980b)
224 North-South, 1000 feet above ground, 1 mile (USGS, 1980d)
225 400 feet above ground, 3 mile (GeoMetrics, 1979f)
226 8000 feet barometric, 1 mile (USGS, 1975f)
227 11,000 feet barometric, 1 mile (USGS, 1972c)
228 11,000 feet barometric, 1 mile (USGS, 1976b)
229 9000 and 11,000 feet barometric, 1 mile (USGS, 1976d)
230 13,000 feet barometric, 1 mile (USGS, 1976c)
231 11,000 feet barometric, 1 mile (USGS, 1975c)
232 7500 to 12,000 feet barometric, 1 mile (USGS, 1980e)
233 13,500 feet barometric, 1 mile (USGS, 1973a)
234 1000 feet above ground, 1 mile (Dempsey and others, 1963)
235 1000 feet above ground, 1 mile (Dempsey and others, 1950)
236 400 feet above ground, 6 mile (GeoMetrics, 1980a)
237 400 feet above ground, 3 mile (GeoMetrics, 1980a)
238 400 feet above ground, 3 mile (Texas Instruments, 1980a)
239 400 feet above ground, 6 mile (Geodata, 1980m)
240 400 feet above ground, 6 mile (Geodata, 1980o)
241 400 feet above ground, 3 mile (Texas Instruments, 1978b)
242 400 feet above ground, 3 mile (Geodata, 1976a)
243 400 feet above ground, 3 mile (Geodata, 1976b)
244 400 feet above ground, 3 mile (Geo-Life, 1979b)
245 400 feet above ground, 3 mile (GeoMetrics, 1979g)
246 Northeast-Southwest, 1000 feet above ground, 0.5 mile (USGS, 1980j)
247 400 feet above ground, 3 mile (High Life/QEB, 1980a)
248 North-South, 9000 feet barometric, 1 mile (USGS, 1975a)
249 North-South, 1000 feet above ground, 2 mile (USGS, 1980b)
250 North-South, 500 feet above ground, 1 mile (Andreasen and others, 1964c)
251 North-South, 500 feet above ground, 1 mile (Andreasen and others, 1964b)
252 North-South, 500 feet above ground, 1 mile (Andreasen and others, 1964a)
253 400 feet above ground, 2 mile (Geo-Life, 1979h)
254 400 feet above ground, 6 mile (Carson Helicopters, 1981)
255 400 feet above ground, 3 mile (Carson Helicopters, 1981)
256 8500 feet above ground, 1 mile (USGS, 1979d)
257 8000 feet barometric, 1 mile (USGS, 1975e)
258 10,000 feet barometric, 1 mile (USGS, 1975b)
259 400 feet above ground, 3 mile (Geo-Life, 1979r)
260 10,000 feet above sea level, 1 mile (USGS, 1974h)
261 8000 feet barometric, 1 mile (USGS, 1975d)
262 7000 feet barometric, 1 mile (USGS, 1976e)
263 400 feet above ground, 3 mile (Bendix, 1983b)
264 400 feet above ground, 3 mile (Texas Instruments, 1977)
265 North-South, 400 feet above ground, 3 mile (LKB Resources, 1980a)
266 400 feet above ground, 6 mile (LKB Resources, 1980a)
267 400 feet above ground, 3 mile (Texas Instruments, 1979a)
268 North-South, 400 feet above ground, 3 mile (Texas Instruments, 1979a)
269 North-South, 9000 feet above sea level, 3 mile (Sauck and Sumner, 1970)
270 10,500 feet above sea level, 1 mile (USGS, 1972e)
271 400 feet above ground, 6 mile (Geo-Life, 1979d)
272 400 feet above ground, 3 mile (Geo-Life, 1979d)
273 400 feet above ground, 3 mile (Bendix, 1983c)
274 4000 feet barometric, 1 mile (USGS, 1980k)
275 4000 feet above ground, 1 mile (USGS, 1979b)
276 4000 feet barometric, 1 mile (USGS, 1980c)
277 North-South, 2400 feet barometric, 1 mile (Mitchell and Zandle, 1965)
278 4000 feet barometric, 1 mile (USGS, 1980a)
279 1500 feet above ground, 0.6 mile (USGS, 1979c)
280 North-South, 1500 feet above ground, 0.6 mile (USGS, 1979c)
281 1500 feet above ground, 1 km (USGS, 1980l)
282 10,000 feet above sea level, 1 mile (USGS, 1974g)
283 8000 feet barometric, 2.6 nautical mile (unpublished data)
284 Northwest-Southeast, 1737 meters barometric, 2 km (Bath, 1977)
285 400 feet above ground, 3 mile (Geodata, 1980l)
286 400 feet above ground, 3 mile (Geodata, 1980k)
287 400 feet above ground, 3 mile (GeoMetrics, 1978a)
288 400 feet above ground, 3 mile (Geodata, 1980j)
289 400 feet above ground, 3 mile (Geodata, 1979a)
290 400 feet above ground, 6 mile (GeoMetrics, 1980e)
291 400 feet above ground, 3 mile (GeoMetrics, 1980e)
292 400 feet above ground, 3 mile (LKB Resources, 1979a)
293 400 feet above ground, 3 mile (Geodata, 1980n)
294 400 feet above ground, 3 mile (Geodata, 1980a)
295 400 feet above ground, 3 mile (Geodata, 1979i)
296 400 feet above ground, 3 mile (Geodata, 1980g)
297 400 feet above ground, 3 mile (Geodata, 1980i)
298 400 feet above ground, 3 mile (Bendix, 1983a)
299 Northwest-Southeast, 400 feet above ground, 6 mile (Bendix, 1983a)
300 400 feet above ground, 3 mile (Geodata, 1980h)
301 400 feet above ground, 3 mile (Geodata, 1979d)
302 400 feet above ground, 1.5 mile (Geodata, 1979d)
303 400 feet above ground, 3 mile (Geodata, 1979b)
304 400 feet above ground, 3 mile (Geodata, 1979e)
305 West Northwest-South Southeast, 400 feet above ground, 3 mile (Geodata, 1979e)
306 Unknown
307 2500 feet above sea level, 2 mile (Yarger and others, 1980)
308 Sea level, 5 to 15 mile (Theberge, 1971)

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