

21 (18-50) GEOPHYSICS-3.1

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GRAVITY SURVEY DATA

MINING GEOPHYSICAL SURVEYS - 2400 EAST GRANT ROAD - TUCSON, ARIZONA 85719

STATION NUMBER	NORTH LATITUDE (DEG) (MIN)	WEST LONGITUDE (DEG) (MIN)	ELEV. (FT)	OBSERVED GRAVITY (MGAL)	FREE AIR ANOMALY (MGAL)	SIMPLE BOUGUER ANOMALY RHO 2.670 (MGAL)
----- DRIFT RATE= -.005332 MGAL/HR -----						
TOLTEC BASE	32 47.50	-0 -0.00	1400.0	979393.571	-36.080	-83.777
TOLTEC BASE	32 47.50	-0 -0.00	1400.0	979393.571	-36.080	-83.777
LINE 2N STA 59+00	32 40.50	-0 -0.00	1490.0	979392.008	-19.614	-70.377
60+00	32 40.50	-0 -0.00	1485.0	979391.825	-20.267	-70.860
61+00	32 40.50	-0 -0.00	1485.0	979391.859	-20.233	-70.825
62+00	32 40.50	-0 -0.00	1480.0	979391.695	-20.867	-71.289
63+00	32 40.50	-0 -0.00	1490.0	979391.176	-20.446	-71.209
64+00	32 40.50	-0 -0.00	1490.0	979391.447	-20.175	-70.938
65+00	32 40.50	-0 -0.00	1480.0	979391.382	-21.181	-71.603
66+00	32 40.50	-0 -0.00	1480.0	979391.118	-21.445	-71.867
67+00	32 40.50	-0 -0.00	1485.0	979390.949	-21.144	-71.736
68+00	32 40.50	-0 -0.00	1490.0	979390.638	-20.983	-71.747
69+00	32 40.50	-0 -0.00	1495.0	979389.297	-21.854	-72.788
70+00	32 40.50	-0 -0.00	1515.0	979388.423	-20.848	-72.463
BM A	32 44.48	-0 -0.00	1474.0	979397.570	-20.992	-71.210
BERM B	32 44.17	-0 -0.00	1454.0	979400.437	-19.583	-69.120
BERM C	32 44.25	-0 -0.00	1448.0	979400.712	-19.981	-69.313
SC 14-22	32 43.46	-0 -0.00	1439.0	979398.114	-22.347	-71.372
INTER E	32 43.26	-0 -0.00	1510.0	979397.074	-16.436	-67.880
BM 1476	32 44.10	-0 -0.00	1476.0	979398.039	-19.815	-70.102

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MINING GEOPHYSICAL SURVEYS - 2400 EAST GRANT ROAD - TUCSON, ARIZONA 85719

STATION NUMBER	NORTH LATITUDE (DEG) (MIN)	WEST LONGITUDE (DEG) (MIN)	ELEV. (FT)	OBSERVED GRAVITY (MGAL)	FREE AIR ANOMALY (MGAL)	SIMPLE BOUGUER ANOMALY RHO 2.670 (MGAL)
----- DRIFT RATE= -.006730 MGAL/HR -----						
TOLTEC BASE	32 47.50	-0 -0.00	1510.0	979393.571	-25.733	-77.178
TOLTEC BASE	32 47.50	-0 -0.00	1510.0	979393.571	-25.733	-77.178
LINE 5W STA 5+00 S	32 39.65	-0 -0.00	1544.9	979384.556	-20.742	-73.376
6+00 S	32 39.53	-0 -0.00	1546.0	979383.312	-21.719	-74.390
7+00 S	32 39.38	-0 -0.00	1548.0	979382.828	-21.810	-74.549
8+00 S	32 39.21	-0 -0.00	1555.0	979383.051	-20.697	-73.674
9+00 S	32 39.02	-0 -0.00	1568.0	979383.423	-18.843	-72.263
10+00 S	32 38.85	-0 -0.00	1580.0	979381.746	-19.159	-72.988
11+00 S	32 38.68	-0 -0.00	1596.0	979380.364	-18.804	-73.178
12+00 S	32 38.50	-0 -0.00	1615.0	979379.373	-17.763	-72.784
13+00 S	32 38.35	-0 -0.00	1635.0	979378.125	-16.925	-72.628
14+00 S	32 38.19	-0 -0.00	1675.0	979374.516	-16.553	-73.618
LINE 0 STA 24+00	32 38.70	-0 -0.00	1575.0	979383.388	-17.783	-71.442
25+00	32 38.73	-0 -0.00	1575.0	979382.326	-18.886	-72.545
26+00	32 38.73	-0 -0.00	1584.0	979382.423	-17.942	-71.908
LINE 5W STA 1+00 N	32 40.66	-0 -0.00	1525.0	979384.396	-24.152	-76.108
2+00 N	32 40.83	-0 -0.00	1527.0	979383.802	-24.790	-76.814
3+00 N	32 41.00	-0 -0.00	1530.0	979382.936	-25.606	-77.732
4+00 N	32 41.15	-0 -0.00	1533.0	979382.311	-26.154	-78.382
5+00 N	32 41.31	-0 -0.00	1533.0	979381.986	-26.697	-78.925
6+00 N	32 41.38	-0 -0.00	1530.0	979382.347	-26.714	-78.840

GRAVITY SURVEY DATA

MINING GEOPHYSICAL SURVEYS - 2400 EAST GRANT ROAD - TUCSON, ARIZONA 85719

STATION NUMBER	NORTH LATITUDE (DEG) (MIN)	WEST LONGITUDE (DEG) (MIN)	ELEV. (FT)	OBSERVED GRAVITY (MGAL)	FREE AIR ANOMALY (MGAL)	SIMPLE BOUGUER ANOMALY RHO 2.670 (MGAL)
----- DRIFT RATE= -.000000 MGAL/HR -----						
TOLTEC BASE	32 47.50	-0 -0.00	1510.0	979393.571	-25.733	-77.178
TOLTEC BASE	32 47.50	-0 -0.00	1510.0	979393.510	-25.794	-77.239
LINE 5W STA 5+00 S	32 39.65	-0 -0.00	1544.9	979384.547	-20.751	-73.385
6+00 S	32 39.53	-0 -0.00	1546.0	979383.300	-21.731	-74.402
7+00 S	32 39.38	-0 -0.00	1548.0	979382.815	-21.823	-74.562
8+00 S	32 39.21	-0 -0.00	1555.0	979383.037	-20.711	-73.688
9+00 S	32 39.02	-0 -0.00	1568.0	979383.407	-18.858	-72.279
10+00 S	32 38.85	-0 -0.00	1580.0	979381.730	-19.175	-73.005
11+00 S	32 38.68	-0 -0.00	1596.0	979380.346	-18.822	-73.196
12+00 S	32 38.50	-0 -0.00	1615.0	979379.354	-17.781	-72.803
13+00 S	32 38.35	-0 -0.00	1635.0	979378.105	-16.945	-72.648
14+00 S	32 38.19	-0 -0.00	1675.0	979374.495	-16.574	-73.640
LINE 0 STA 24+00	32 38.70	-0 -0.00	1575.0	979383.363	-17.807	-71.466
25+00	32 38.73	-0 -0.00	1575.0	979382.299	-18.913	-72.572
26+00	32 38.73	-0 -0.00	1584.0	979382.395	-17.970	-71.936
LINE 5W STA 1+00 N	32 40.66	-0 -0.00	1525.0	979384.359	-24.189	-76.145
2+00 N	32 40.83	-0 -0.00	1527.0	979383.762	-24.830	-76.854
3+00 N	32 41.00	-0 -0.00	1530.0	979382.894	-25.648	-77.774
4+00 N	32 41.15	-0 -0.00	1533.0	979382.255	-26.209	-78.437
5+00 N	32 41.31	-0 -0.00	1533.0	979381.929	-26.754	-78.982
6+00 N	32 41.38	-0 -0.00	1530.0	979382.289	-26.772	-78.897
----- DRIFT RATE= .010694 MGAL/HR -----						
TOLTEC BASE	32 47.50	-0 -0.00	1510.0	979393.571	-25.733	-77.178
TOLTEC BASE	32 47.50	-0 -0.00	1510.0	979393.571	-25.733	-77.178
LINE 5W STA 6+00 N	32 41.38	-0 -0.00	1530.0	979382.362	-26.699	-78.824
7+00 N	32 41.56	-0 -0.00	1528.0	979382.362	-27.133	-79.191
8+00 N	32 41.71	-0 -0.00	1527.0	979382.476	-27.318	-79.341
9+00 N	32 41.88	-0 -0.00	1526.0	979382.653	-27.467	-79.456
10+00 N	32 42.05	-0 -0.00	1523.0	979382.751	-27.883	-79.770
11+00 N	32 42.21	-0 -0.00	1521.0	979382.979	-28.062	-79.881
12+00 N	32 42.37	-0 -0.00	1520.0	979383.350	-27.004	-78.789
13+00 N	32 42.53	-0 -0.00	1518.0	979383.654	-28.106	-79.823
14+00 N	32 42.69	-0 -0.00	1517.0	979383.946	-28.126	-79.809
15+00 N	32 42.84	-0 -0.00	1516.0	979384.217	-28.154	-79.803
16+00 N	32 43.00	-0 -0.00	1513.0	979384.647	-28.225	-79.772
17+00 N	32 43.15	-0 -0.00	1511.0	979385.165	-28.100	-79.578
18+00 N	32 43.34	-0 -0.00	1509.0	979385.477	-28.236	-79.646
19+00 N	32 43.50	-0 -0.00	1508.0	979386.004	-28.021	-79.397
20+00 N	32 43.66	-0 -0.00	1506.0	979386.572	-27.859	-79.168
21+00 N	32 43.84	-0 -0.00	1504.0	979387.138	-27.728	-78.968
22+00 N	32 44.00	-0 -0.00	1502.0	979387.893	-27.380	-78.552
23+00 N	32 44.14	-0 -0.00	1500.0	979388.573	-27.079	-78.183
24+00 N	32 44.30	-0 -0.00	1499.0	979389.331	-26.634	-77.703
25+00 N	32 44.46	-0 -0.00	1497.0	979390.258	-26.113	-77.115
26+00 N	32 44.62	-0 -0.00	1495.0	979390.965	-25.813	-76.746

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STATION NUMBER	NORTH LATITUDE (DEG) (MIN)	WEST LONGITUDE (DEG) (MIN)	ELEV. (FT)	OBSERVED GRAVITY (MGAL)	FREE AIR ANOMALY (MGAL)	SIMPLE BOUGUER ANOMALY RHO 2.670 (MGAL)
27+00 N	32 44.80	-0 -0.00	1494.0	979391.656	-25.462	-76.362
28+00 N	32 44.96	-0 -0.00	1492.0	979392.472	-25.053	-75.884
29+00 N	32 45.06	-0 -0.00	1491.0	979393.327	-24.429	-75.226
30+00 N	32 45.25	-0 -0.00	1489.0	979394.344	-21.127	-73.856
31+00 N	32 45.41	-0 -0.00	1488.0	979395.280	-23.236	-73.931
32+00 N	32 45.59	-0 -0.00	1486.0	979396.106	-22.844	-73.471
33+00 N	32 45.75	-0 -0.00	1484.0	979396.785	-22.572	-73.131
34+00 N	32 45.91	-0 -0.00	1483.0	979397.563	-22.107	-72.631
35+00 N	32 46.07	-0 -0.00	1483.0	979398.269	-21.619	-72.144
36+00 N	32 46.23	-0 -0.00	1482.0	979398.983	-21.218	-71.709
37+00 N	32 46.38	-0 -0.00	1481.0	979399.986	-20.515	-70.971
38+00 N	32 46.54	-0 -0.00	1479.0	979401.296	-19.612	-70.000
39+00 N	32 46.70	-0 -0.00	1477.0	979401.737	-19.578	-69.898
40+00 N	32 46.86	-0 -0.00	1481.0	979401.680	-19.476	-69.933
41+00 N	32 47.03	-0 -0.00	1488.0	979401.710	-19.021	-69.716
42+00 N	32 47.19	-0 -0.00	1511.0	979401.649	-17.137	-68.615
43+00 N	32 47.35	-0 -0.00	1525.0	979401.704	-15.984	-67.940
44+00 N	32 47.50	-0 -0.00	1551.0	979400.094	-15.353	-68.195
----- DRIFT RATE= -.001307 MGAL/HR -----						
TOLTEC BASE	32 47.50	-0 -0.00	1510.0	979393.571	-25.733	-77.178
TOLTEC BASE	32 47.50	-0 -0.00	1510.0	979393.571	-25.733	-77.178
LINE 6N STA 21+00	32 44.05	-0 -0.00	1513.0	979385.613	-28.694	-80.240
23+00	32 44.05	-0 -0.00	1509.0	979386.585	-28.097	-79.507
24+00	32 44.05	-0 -0.00	1507.0	979386.931	-27.940	-79.282
25+00	32 44.05	-0 -0.00	1504.0	979387.319	-27.834	-79.074
26+00	32 44.05	-0 -0.00	1503.0	979387.708	-27.538	-78.744
LINE 5W STA 23+00 N	32 44.14	-0 -0.00	1500.0	979388.390	-27.262	-78.366
LINE 6N 27+00	32 44.05	-0 -0.00	1501.0	979388.195	-27.240	-78.378
28+00	32 44.05	-0 -0.00	1499.0	979388.509	-27.114	-78.184
29+00	32 44.05	-0 -0.00	1497.0	979388.945	-26.866	-77.868
30+00	32 44.05	-0 -0.00	1496.0	979389.261	-26.644	-77.612
31+00	32 44.05	-0 -0.00	1494.0	979389.554	-26.540	-77.439
32+00	32 44.05	-0 -0.00	1493.0	979389.899	-26.288	-77.154
33+00	32 44.05	-0 -0.00	1490.0	979390.298	-26.171	-76.934
34+00	32 44.05	-0 -0.00	1488.0	979390.605	-26.053	-76.748
35+00	32 44.05	-0 -0.00	1486.0	979391.077	-25.769	-76.396
36+00	32 44.05	-0 -0.00	1485.0	979391.256	-25.684	-76.277
37+00	32 44.05	-0 -0.00	1484.0	979391.489	-25.545	-76.104
38+00	32 44.05	-0 -0.00	1484.0	979391.813	-25.221	-75.780
39+00	32 44.05	-0 -0.00	1482.0	979392.079	-25.143	-75.634
40+00	32 44.05	-0 -0.00	1481.0	979392.373	-24.943	-75.400
41+00	32 44.05	-0 -0.00	1479.0	979392.642	-24.862	-75.250
42+00	32 44.05	-0 -0.00	1478.0	979392.783	-24.815	-75.170
43+00	32 44.05	-0 -0.00	1476.0	979392.862	-24.924	-75.210
44+00	32 44.05	-0 -0.00	1473.0	979393.282	-24.787	-74.971
45+00	32 44.05	-0 -0.00	1472.0	979393.815	-24.347	-74.497
46+00	32 44.05	-0 -0.00	1470.0	979394.268	-24.083	-74.164
47+00	32 44.05	-0 -0.00	1470.0	979394.268	-24.083	-74.164

GRAVITY SURVEY DATA

MINING GEOPHYSICAL SURVEYS - 2400 EAST GRANT ROAD - TUCSON, ARIZONA 85719

STATION NUMBER	NORTH LATITUDE (DEG) (MIN)	WEST LONGITUDE (DEG) (MIN)	ELEV. (FT)	OBSERVED GRAVITY (MGAL)	FREE AIR ANOMALY (MGAL)	SIMPLE BOUGUER ANOMALY RHO 2.670 (MGAL)
48+00	32 44.05	-0 -0.00	1472.0	979394.868	-23.295	-73.445
49+00	32 44.05	-0 -0.00	1474.0	979395.306	-22.669	-72.887
50+00	32 44.05	-0 -0.00	1500.0	979394.939	-20.590	-71.694
----- DRIFT RATE= -.033814 MGAL/HR -----						
TOLTEC BASE	32 47.50	-0 -0.00	1510.0	979393.571	-25.733	-77.178
TOLTEC BASE	32 47.50	-0 -0.00	1510.0	979393.571	-25.733	-77.178
LINE 4N STA 0+00	32 42.27	-0 -0.00	1569.0	979370.257	-36.351	-89.805
1+00	32 42.27	-0 -0.00	1567.0	979371.049	-35.747	-89.133
2+00	32 42.27	-0 -0.00	1566.0	979371.648	-35.242	-88.595
3+00	32 42.27	-0 -0.00	1564.0	979372.258	-34.820	-88.104
4+00	32 42.27	-0 -0.00	1562.0	979372.777	-34.489	-87.705
5+00	32 42.27	-0 -0.00	1561.0	979373.305	-34.055	-87.237
6+00	32 42.27	-0 -0.00	1559.0	979373.977	-33.572	-86.685
7+00	32 42.27	-0 -0.00	1557.0	979374.641	-33.095	-86.141
8+00	32 42.27	-0 -0.00	1556.0	979375.189	-32.642	-85.653
9+00	32 42.27	-0 -0.00	1555.0	979375.693	-32.231	-85.209
10+00	32 42.27	-0 -0.00	1554.0	979376.269	-31.749	-84.693
11+00	32 42.27	-0 -0.00	1552.0	979376.819	-31.388	-84.263
12+00	32 42.27	-0 -0.00	1549.0	979377.220	-31.268	-84.042
13+00	32 42.27	-0 -0.00	1547.0	979377.672	-31.005	-83.710
14+00	32 42.27	-0 -0.00	1545.0	979378.024	-30.841	-83.478
15+00	32 42.27	-0 -0.00	1542.0	979378.421	-30.726	-83.261
16+00	32 42.27	-0 -0.00	1541.0	979378.784	-30.457	-82.958
17+00	32 42.27	-0 -0.00	1539.0	979379.280	-30.149	-82.582
18+00	32 42.27	-0 -0.00	1537.0	979379.670	-29.948	-82.312
19+00	32 42.27	-0 -0.00	1534.0	979379.942	-29.958	-82.220
20+00	32 42.27	-0 -0.00	1532.0	979380.432	-29.656	-81.850
21+00	32 42.27	-0 -0.00	1530.0	979380.788	-29.488	-81.614
22+00	32 42.27	-0 -0.00	1528.0	979381.352	-29.112	-81.170
23+00	32 42.27	-0 -0.00	1527.0	979381.724	-28.834	-80.858
24+00	32 42.27	-0 -0.00	1525.0	979382.087	-28.659	-80.615
25+00	32 42.27	-0 -0.00	1524.0	979382.315	-28.525	-80.446
26+00	32 42.27	-0 -0.00	1521.0	979382.750	-28.373	-80.192
----- DRIFT RATE= -.002040 MGAL/HR -----						
TOLTEC BASE	32 47.50	-0 -0.00	1510.0	979393.571	-25.733	-77.178
TOLTEC BASE	32 47.50	-0 -0.00	1510.0	979393.571	-25.733	-77.178
LINE 4N STA 26+00	32 42.27	-0 -0.00	1521.0	979382.723	-28.399	-80.219
LINE 5W STA 11+00 N	32 42.21	-0 -0.00	1521.0	979382.937	-28.104	-79.923
LINE 4N STA 27+00	32 42.27	-0 -0.00	1520.0	979383.479	-27.738	-79.523
28+00	32 42.27	-0 -0.00	1518.0	979383.988	-27.417	-79.134
29+00	32 42.27	-0 -0.00	1517.0	979384.628	-26.871	-78.554
30+00	32 42.27	-0 -0.00	1514.0	979385.344	-26.437	-78.017
31+00	32 42.27	-0 -0.00	1512.0	979385.695	-26.274	-77.787
32+00	32 42.27	-0 -0.00	1511.0	979386.080	-25.984	-77.462
33+00	32 42.27	-0 -0.00	1509.0	979386.349	-25.902	-77.313
34+00	32 42.27	-0 -0.00	1508.0	979386.492	-25.853	-77.230

GRAVITY SURVEY DATA

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STATION NUMBER	NORTH LATITUDE (DEG) (MIN)	WEST LONGITUDE (DEG) (MIN)	ELEV. (FT)	OBSERVED GRAVITY (MGAL)	FREE AIR ANOMALY (MGAL)	SIMPLE BOUGUER ANOMALY RHO 2.670 (MGAL)
35+00	32 42.27	-0 -0.00	1507.0	979386.688	-25.751	-77.093
36+00	32 42.27	-0 -0.00	1505.0	979386.989	-25.639	-76.913
37+00	32 42.27	-0 -0.00	1502.0	979387.407	-25.503	-76.675
38+00	32 42.27	-0 -0.00	1500.0	979387.649	-25.449	-76.552
39+00	32 42.27	-0 -0.00	1499.0	979387.707	-25.485	-76.555
40+00	32 42.27	-0 -0.00	1497.0	979387.871	-25.509	-76.511
41+00	32 42.27	-0 -0.00	1497.0	979388.328	-25.051	-76.053
42+00	32 42.27	-0 -0.00	1496.0	979388.401	-25.073	-76.040
43+00	32 42.27	-0 -0.00	1495.0	979388.814	-24.754	-75.687
44+00	32 42.27	-0 -0.00	1497.0	979388.932	-24.448	-75.450
45+00	32 42.27	-0 -0.00	1496.0	979389.155	-24.319	-75.287
46+00	32 42.27	-0 -0.00	1494.0	979389.322	-24.340	-75.239
47+00	32 42.27	-0 -0.00	1493.0	979389.346	-24.411	-75.276
48+00	32 42.27	-0 -0.00	1492.0	979389.803	-24.047	-74.878
49+00	32 42.27	-0 -0.00	1493.0	979390.017	-23.739	-74.605
50+00	32 42.27	-0 -0.00	1495.0	979390.459	-23.109	-74.043
51+00	32 42.27	-0 -0.00	1498.0	979391.069	-22.217	-73.252
52+00	32 42.31	-0 -0.00	1499.0	979390.677	-22.570	-73.639
53+00	32 42.34	-0 -0.00	1521.0	979390.084	-21.134	-72.953
54+00	32 42.35	-0 -0.00	1540.0	979389.484	-19.960	-72.427
55+00	32 42.39	-0 -0.00	1585.0	979384.372	-20.894	-74.894

*Terrain
corrections*

1.41 -75.15
1.5 -75.09
1.6 -75.12
1.7 -74.71
1.8 -74.43
2.0 -73.84
2.3 -73.02
3.5 -73.28
4.8 -72.47 -72.37
8.5 -71.58 -71.6
2.89 -72.00 -72.0

72 43
85
71 58

72 95
48
72 47