

SUR: C-4-22s-32e, 660/N & 1980/W

BHL: D-4-22s-32e, 789/N & 819/W

API # 30-025-27472

HEADER INFORMATION

Company: Marbob Energy
 Field: Bilbrey Fed Com #1
 Site Name: Section 4, T22- Mag Dec.Corr: +7.76 EAST TO GRID
 Well Name: Bilbrey Fed Com #1
 Wellpath Name: Original Hole Sidetrack AFE / OCS:
 Survey Name: Pathfinder MWD Surveys Survey Date: 1/13/2006 Survey Type: 200 - 12155 Gyro Survey
 12266- 15350 Pathfinder MWD Surveys
 Depth Units: ft

SURFACE LOCATION

Site Northing 486991.05
 Site Easting 756956.97

BOTTOM HOLE LOCATION

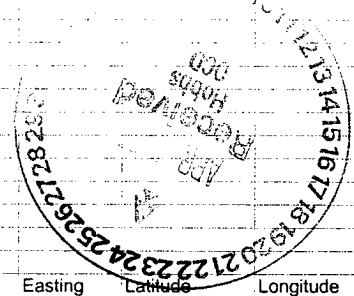
BHL MD 15350
 BHL TVD 15066.29

WELL INFORMATION

Well Northing: 486991.05
 Well Easting: 756956.97
 Rig K.B: 0
 Vsec Angle: 266.1
 Vsec North: 0
 Vsec East: 0

SURVEY LIST

MD	INC	AZI	TVD	NS	EW	VSEC	DLS	Northing	Easting	Latitude	Longitude
0	0	0	0	0	0	0	0	486991.05	756956.97	32°20'10.000N	103°30'05.001W
200	0.39	66.3	200	0.27	0.62	-0.64	0.19	486991.33	756957.59	32°20'10.003N	103°30'04.994W
400	0.31	63.12	399.99	0.79	1.73	-1.78	0.04	486991.86	756958.69	32°20'10.008N	103°30'04.981W
600	0.46	91.69	599.99	1.01	3.01	-3.08	0.12	486992.09	756959.98	32°20'10.010N	103°30'04.966W
800	0.31	67.21	799.99	1.2	4.32	-4.39	0.11	486992.29	756961.28	32°20'10.012N	103°30'04.951W
1000	0.5	39.88	999.98	2.08	5.37	-5.5	0.13	486993.17	756962.33	32°20'10.021N	103°30'04.938W
1200	0.45	30.29	1199.97	3.43	6.33	-6.55	0.05	486994.53	756963.27	32°20'10.034N	103°30'04.927W
1400	0.62	59.09	1399.97	4.66	7.65	-7.95	0.16	486995.77	756964.59	32°20'10.046N	103°30'04.912W
1600	1.02	50.96	1599.94	6.34	9.97	-10.37	0.21	486997.47	756966.89	32°20'10.063N	103°30'04.885W
1800	1.7	54.06	1799.89	9.2	13.75	-14.34	0.34	487000.36	756970.65	32°20'10.091N	103°30'04.841W
2000	2.03	50.97	1999.78	13.17	18.9	-19.76	0.17	487004.37	756975.77	32°20'10.130N	103°30'04.781W
2200	2.6	51.87	2199.62	18.2	25.22	-26.4	0.29	487009.45	756982.05	32°20'10.180N	103°30'04.707W
2400	3.1	50.1	2399.37	24.47	32.94	-34.53	0.25	487015.78	756989.72	32°20'10.242N	103°30'04.617W
2600	3.55	46.2	2599.03	32.23	41.56	-43.65	0.25	487023.6	756998.28	32°20'10.319N	103°30'04.517W
2800	3.93	49.51	2798.61	40.96	51.24	-53.91	0.22	487032.41	757007.89	32°20'10.405N	103°30'04.404W
3000	3.09	57.78	2998.23	48.29	61.01	-64.16	0.49	487039.81	757017.61	32°20'10.478N	103°30'04.290W
3200	3.24	57.58	3197.93	54.19	70.34	-73.87	0.08	487045.79	757026.89	32°20'10.536N	103°30'04.181W
3400	3.55	54.05	3397.57	60.86	80.13	-84.08	0.19	487052.53	757036.62	32°20'10.602N	103°30'04.067W
3600	3.56	56.76	3597.19	67.9	90.33	-94.74	0.08	487059.65	757046.78	32°20'10.672N	103°30'03.948W
3800	3.06	51.42	3796.86	74.63	99.7	-104.55	0.29	487066.45	757056.09	32°20'10.738N	103°30'03.839W
4000	2.52	48.38	3996.62	80.88	107.16	-112.41	0.28	487072.76	757063.5	32°20'10.800N	103°30'03.752W
4200	2.23	43.78	4196.45	86.61	113.14	-118.77	0.17	487078.54	757069.43	32°20'10.857N	103°30'03.682W
4400	1.98	47.02	4396.31	91.77	118.36	-124.33	0.14	487083.74	757074.61	32°20'10.908N	103°30'03.622W
4600	1.05	54.38	4596.24	95.2	122.38	-128.57	0.47	487087.2	757078.61	32°20'10.942N	103°30'03.575W
4800	0.78	60.52	4796.21	96.93	125.05	-131.36	0.14	487088.95	757081.27	32°20'10.959N	103°30'03.544W
5000	0.63	55.13	4996.2	98.23	127.14	-133.53	0.08	487090.27	757083.34	32°20'10.972N	103°30'03.519W
5200	0.59	44.07	5196.19	99.6	128.76	-135.23	0.06	487091.65	757084.95	32°20'10.986N	103°30'03.500W
5400	0.55	67.02	5396.18	100.71	130.36	-136.91	0.12	487092.78	757086.54	32°20'10.997N	103°30'03.482W
5600	0.45	58.6	5596.17	101.5	131.91	-138.51	0.06	487093.57	757088.09	32°20'11.004N	103°30'03.464W
5800	0.57	31.13	5796.16	102.76	133.1	-139.78	0.13	487094.84	757089.27	32°20'11.017N	103°30'03.450W
6000	0.62	38.04	5996.15	104.46	134.28	-141.07	0.04	487096.56	757090.43	32°20'11.034N	103°30'03.436W
6200	0.61	37.08	6196.14	106.16	135.59	-142.49	0.01	487098.27	757091.73	32°20'11.051N	103°30'03.421W
6400	0.59	43.25	6396.13	107.76	136.93	-143.95	0.03	487099.88	757093.06	32°20'11.066N	103°30'03.405W
6600	0.44	44.05	6596.12	109.07	138.17	-145.27	0.08	487101.19	757094.29	32°20'11.079N	103°30'03.391W
6800	0.6	30.65	6796.11	110.52	139.24	-146.44	0.1	487102.65	757095.35	32°20'11.094N	103°30'03.378W
7000	0.51	357.6	6996.1	112.31	139.74	-147.05	0.16	487104.44	757095.83	32°20'11.111N	103°30'03.372W
7200	0.46	22	7196.1	113.94	140	-147.43	0.11	487106.08	757096.08	32°20'11.128N	103°30'03.369W
7400	0.23	11	7396.09	115.08	140.38	-147.88	0.12	487107.22	757096.45	32°20'11.139N	103°30'03.365W
7600	0.29	313.82	7596.09	115.83	140.09	-147.64	0.13	487107.96	757096.16	32°20'11.146N	103°30'03.368W
7800	0.35	321.06	7796.09	116.65	139.34	-146.95	0.04	487108.78	757095.4	32°20'11.154N	103°30'03.377W
8000	0.34	270.31	7996.09	117.13	138.36	-146.01	0.15	487109.25	757094.42	32°20'11.159N	103°30'03.388W
8200	0.49	276.4	8196.08	117.23	136.92	-144.58	0.08	487109.34	757092.98	32°20'11.160N	103°30'03.405W
8400	0.84	275.72	8396.07	117.47	134.61	-142.29	0.18	487109.57	757090.67	32°20'11.162N	103°30'03.432W
8600	0.9	257.22	8596.04	117.27	131.62	-139.29	0.14	487109.34	757087.68	32°20'11.160N	103°30'03.467W
8800	1.01	243.91	8796.02	116.15	128.51	-136.11	0.12	487108.19	757084.57	32°20'11.149N	103°30'03.503W
9000	1.16	240.9	8995.98	114.39	125.15	-132.64	0.08	487106.41	757081.23	32°20'11.132N	103°30'03.542W
9200	1.2	252.36	9195.94	112.77	121.39	-128.78	0.12	487104.76	757077.48	32°20'11.116N	103°30'03.586W
9400	0.9	254.49	9395.9	111.71	117.88	-125.21	0.15	487103.68	757073.98	32°20'11.105N	103°30'03.627W
9600	1.81	284.18	9595.85	112.07	113.3	-120.66	0.56	487104	757069.4	32°20'11.109N	103°30'03.680W
9800	1.15	282.36	9795.78	113.27	108.28	-115.73	0.33	487105.16	757064.37	32°20'11.121N	103°30'03.739W
10000	1.05	258.79	9995.74	113.34	104.52	-111.99	0.23	487105.2	757060.61	32°20'11.122N	103°30'03.783W
10200	0.98	254.4	10195.71	112.53	101.08	-108.5	0.05	487104.36	757057.17	32°20'11.113N	103°30'03.823W
10400	1.63	242.14	10395.66	110.74	96.92	-104.22	0.35	487102.54	757053.02	32°20'11.096N	103°30'03.871W
10600	1.72	240.78	10595.57	107.94	91.78	-98.91	0.05	487099.71	757047.91	32°20'11.068N	103°30'03.931W



SURVEY LIST												
MD	INC	AZI	TVD	NS	EW	VSEC	DLS	Northing	Easting	Latitude	Longitude	
10800		2.56	248.18	10795.43	104.82	85.01	-91.95	0.44	487096.53	757041.17	32°20'11.037N	103°30'04.010W
11000		1.96	246.6	10995.28	101.8	77.73	-84.47	0.3	487093.45	757033.91	32°20'11.007N	103°30'04.095W
11200		1.41	255.74	11195.19	99.83	72.21	-78.83	0.31	487091.45	757028.4	32°20'10.988N	103°30'04.159W
11400		1.35	253.18	11395.13	98.55	67.57	-74.11	0.04	487090.12	757023.77	32°20'10.975N	103°30'04.214W
11600		1.5	250.03	11595.07	96.97	62.85	-69.3	0.08	487088.51	757019.07	32°20'10.960N	103°30'04.268W
11800		1.78	242.38	11794.99	94.64	57.64	-63.94	0.18	487086.13	757013.87	32°20'10.936N	103°30'04.329W
12000		1.94	246.4	11994.88	91.84	51.78	-57.91	0.1	487083.29	757008.04	32°20'10.909N	103°30'04.397W
12155		1.62	250.54	12149.81	90.06	47.31	-53.33	0.22	487081.48	757003.58	32°20'10.891N	103°30'04.450W
12266		8.27	254.29	12260.33	87.37	38.14	-43.99	5.99	487078.72	756994.43	32°20'10.865N	103°30'04.556W
12298		7.74	256.4	12292.02	86.24	33.83	-39.62	1.89	487077.56	756990.13	32°20'10.853N	103°30'04.607W
12330		7.57	249.02	12323.74	84.98	29.77	-35.48	3.12	487076.26	756986.08	32°20'10.841N	103°30'04.654W
12362		8.62	240.23	12355.42	83.04	25.72	-31.31	5.06	487074.29	756982.04	32°20'10.822N	103°30'04.701W
12393		8.8	238.82	12386.06	80.66	21.67	-27.11	0.9	487071.88	756978.02	32°20'10.798N	103°30'04.748W
12425		10.03	236.72	12417.63	77.86	17.25	-22.5	3.99	487069.04	756973.61	32°20'10.770N	103°30'04.800W
12454		10.38	241.64	12446.17	75.23	12.84	-17.92	3.24	487066.38	756969.22	32°20'10.744N	103°30'04.851W
12486		11.09	240.93	12477.61	72.37	7.61	-12.51	2.26	487063.48	756964.02	32°20'10.716N	103°30'04.912W
12518		11.79	241.64	12508.98	69.32	2.04	-6.75	2.23	487060.39	756958.48	32°20'10.686N	103°30'04.977W
12549		12.84	243.75	12539.26	66.29	-3.83	-0.68	3.68	487057.31	756952.62	32°20'10.656N	103°30'05.046W
12581		14.25	244.45	12570.37	63.02	-10.58	6.26	4.44	487053.99	756945.91	32°20'10.624N	103°30'05.124W
12613		15.66	245.15	12601.29	59.51	-18.05	13.96	4.44	487050.42	756938.46	32°20'10.589N	103°30'05.211W
12644		16.89	245.5	12631.04	55.88	-25.94	22.08	3.98	487046.73	756930.59	32°20'10.553N	103°30'05.303W
12676		18.65	244.8	12661.52	51.77	-34.8	31.2	5.54	487042.56	756921.77	32°20'10.512N	103°30'05.407W
12708		19.53	245.15	12691.76	47.35	-44.29	40.96	2.77	487038.06	756912.32	32°20'10.469N	103°30'05.517W
12739		20.76	245.15	12720.86	42.86	-53.97	50.93	3.97	487033.49	756902.67	32°20'10.424N	103°30'05.630W
12771		21.82	245.15	12750.67	37.98	-64.52	61.78	3.31	487028.53	756892.16	32°20'10.376N	103°30'05.753W
12803		22.87	244.8	12780.27	32.83	-75.54	73.13	3.31	487023.3	756881.18	32°20'10.325N	103°30'05.881W
12834		24.28	245.86	12808.68	27.66	-86.81	84.73	4.75	487018.04	756869.95	32°20'10.274N	103°30'06.013W
12866		26.04	247.97	12837.65	22.33	-99.32	97.58	6.17	487012.61	756857.48	32°20'10.221N	103°30'06.159W
12898		26.92	248.67	12866.29	17.06	-112.58	111.16	2.92	487007.24	756844.26	32°20'10.169N	103°30'06.313W
12929		27.62	248.67	12893.84	11.9	-125.81	124.71	2.26	487001.97	756831.07	32°20'10.118N	103°30'06.467W
12961		27.27	248.32	12922.24	6.49	-139.54	138.77	1.2	486996.46	756817.39	32°20'10.064N	103°30'06.627W
12993		26.74	248.33	12950.75	1.12	-153.04	152.61	1.66	486990.99	756803.93	32°20'10.011N	103°30'06.785W
13025		25.87	248.32	12979.44	-4.11	-166.22	166.11	2.72	486985.65	756790.79	32°20'09.959N	103°30'06.938W
13057		24.99	247.26	13008.34	-9.31	-178.94	179.16	3.1	486980.36	756778.11	32°20'09.908N	103°30'07.087W
13088		25.69	248.67	13036.36	-14.28	-191.24	191.77	2.98	486975.29	756765.85	32°20'09.859N	103°30'07.230W
13120		25.87	249.72	13065.17	-19.22	-204.25	205.08	1.53	486970.24	756752.88	32°20'09.810N	103°30'07.381W
13152		26.04	250.07	13093.94	-24.04	-217.4	218.53	0.72	486965.33	756739.77	32°20'09.762N	103°30'07.535W
13190		26.57	250.07	13128.01	-29.78	-233.23	234.71	1.39	486959.47	756723.98	32°20'09.705N	103°30'07.719W
13222		27.27	249.72	13156.54	-34.76	-246.83	248.63	2.24	486954.38	756710.41	32°20'09.656N	103°30'07.878W
13253		26.57	250.07	13184.18	-39.58	-260.01	262.1	2.32	486949.45	756697.27	32°20'09.608N	103°30'08.031W
13285		26.04	251.48	13212.87	-44.25	-273.4	275.78	2.56	486944.68	756683.92	32°20'09.562N	103°30'08.187W
13317		25.87	253.24	13241.64	-48.5	-286.75	289.38	2.46	486940.33	756670.61	32°20'09.520N	103°30'08.343W
13349		25.87	254.65	13270.43	-52.36	-300.16	303.03	1.92	486936.36	756657.22	32°20'09.482N	103°30'08.499W
13380		26.04	252.54	13298.31	-56.19	-313.18	316.27	3.03	486932.43	756644.24	32°20'09.444N	103°30'08.651W
13412		27.45	251.48	13326.88	-60.64	-326.87	330.24	4.65	486927.87	756630.58	32°20'09.400N	103°30'08.811W
13444		29.91	252.18	13354.96	-65.43	-341.46	345.12	7.76	486922.98	756616.03	32°20'09.353N	103°30'08.981W
13476		30.79	252.18	13382.57	-70.38	-356.86	360.82	2.75	486917.91	756600.67	32°20'09.304N	103°30'09.160W
13507		30.97	251.83	13409.18	-75.29	-371.99	376.25	0.82	486912.88	756585.58	32°20'09.255N	103°30'09.337W
13539		31.32	251.48	13436.56	-80.5	-387.7	392.28	1.23	486907.55	756569.91	32°20'09.203N	103°30'09.520W
13571		30.97	251.83	13463.95	-85.71	-403.41	408.3	1.23	486902.21	756554.24	32°20'09.152N	103°30'09.703W
13603		30.44	251.48	13491.47	-90.85	-418.92	424.13	1.75	486896.95	756538.77	32°20'09.101N	103°30'09.883W
13634		29.03	254.29	13518.38	-95.38	-433.61	439.09	6.39	486892.31	756524.12	32°20'09.056N	103°30'10.055W
13666		28.5	259.92	13546.44	-98.82	-448.6	454.28	8.62	486888.75	756509.15	32°20'09.022N	103°30'10.229W
13697		28.68	262.73	13573.66	-101.06	-463.26	469.06	4.38	486886.4	756494.51	32°20'09.000N	103°30'10.400W
13729		29.74	265.9	13601.59	-102.6	-478.8	484.67	5.86	486884.74	756478.99	32°20'08.985N	103°30'10.581W
13761		28.86	270.47	13629.5	-103.1	-494.44	500.31	7.51	486884.12	756463.35	32°20'08.980N	103°30'10.764W
13792		27.8	272.93	13656.79	-102.67	-509.14	514.94	5.09	486884.43	756448.65	32°20'08.984N	103°30'10.935W
13824		26.92	273.63	13685.21	-101.83	-523.82	529.53	2.93	486885.16	756433.96	32°20'08.992N	103°30'11.106W
13856		27.1	272.22	13713.72	-101.09	-538.33	543.96	2.08	486885.79	756419.44	32°20'09.000N	103°30'11.275W
13890		27.98	271.17	13743.87	-100.63	-554.05	559.61	2.96	486886.13	756403.72	32°20'09.004N	103°30'11.458W
13921		27.62	270.82	13771.29	-100.38	-568.5	574.01	1.28	486886.27	756389.27	32°20'09.007N	103°30'11.627W
13953		28.86	270.11	13799.48	-100.25	-583.64	589.11	4.01	486886.27	756374.13	32°20'09.008N	103°30'11.803W
13985		29.91	270.11	13827.36	-100.22	-599.34	604.77	3.28	486886.18	756358.42	32°20'09.008N	103°30'11.986W
14017		29.74	270.11	13855.12	-100.19	-615.26	620.65	0.53	486886.08	756342.51	32°20'09.008N	103°30'12.172W
14049		29.38	269.76	13882.96	-100.21	-631.05	636.4	1.25	486885.94	756326.72	32°20'09.008N	103°30'12.356W
14080		29.21	269.76	13910	-100.27	-646.21	651.54	0.55	486885.76	756311.56	32°20'09.008N	103°30'12.533W
14112		29.03	270.82	13937.95	-100.2	-661.79	667.07	1.71	486885.72	756295.98	32°20'09.008N	103°30'12.714W
14144		28.86	270.82	13965.95	-99.97	-677.27	682.5	0.53	486885.82	756280.5	32°20'09.011N	103°30'12.895W
14175		28.5	270.82	13993.15	-99.76	-692.15	697.33	1.16	486885.92	756265.62	32°20'09.013N	103°30'13.068W
14207		28.33	270.11	14021.29	-99.64	-707.37	712.51	1.18	486885.92	756250.39	32°20'09.014N	103°30'13.245W
14239		29.21	268.71	14049.34	-99.8	-722.77	727.89	3.46	486885.64	756235	32°20'09.012N	103°30'13.425W
14271		29.03	267.65	14077.3	-100.29	-738.34	743.45	1.71	486885.03	756219.44	32°20'09.007N	103°30'13.606W
14302		28.68	267.65	14104.45	-100.91	-753.29	758.4	1.13	486884.3	756204.49	32°20'09.001N	103°30'13.780W
14338		27.98	267.65	14136.14	-101.61	-770.35	775.48	1.94	486883.47	756187.43	32°20'08.994N	103°30'13.979W
14366		27.8	267.3	14160.89	-102.18	-783.44	788.58	0.87	486882.79	756174.35	32°20'08.989N	103°30'14.132W
14433		28.5	267.3	14219.96	-103.67	-815.01	820.18	1.04	486881.05	756142.79	32°20'08.974N	103°30'14.500W
14461		27.8	268.68	14244.65	-104.14	-828.21	833.38	3.41	486880.49	756129.59	32°20'08.969N	103°30'14.654W
14493		27.45</										

SURVEY LIST											
MD	INC	AZI	TVD	NS	EW	VSEC	DLS	Northing	Easting	Latitude	Longitude
14588		26.39	267.3	14357.75	-107.21	-885.89	891.13	0.74	486876.97	756071.94	32°20'08.939N 103°30'15.326W
14652		25.87	266.6	14415.21	-108.71	-914.03	919.31	0.94	486875.25	756043.81	32°20'08.924N 103°30'15.654W
14715		24.81	265.9	14472.15	-110.47	-940.94	946.27	1.75	486873.28	756016.92	32°20'08.907N 103°30'15.968W
14808		24.81	265.9	14556.57	-113.26	-979.86	985.3	0	486870.19	755978.02	32°20'08.879N 103°30'16.421W
15006		21.57	265.3	14738.54	-119.21	-1057.59	1063.25	1.64	486863.63	755900.34	32°20'08.820N 103°30'17.327W
15100		18.38	264.71	14826.88	-121.99	-1089.58	1095.35	3.4	486860.6	755868.38	32°20'08.793N 103°30'17.700W
15350		15.04	264.09	15066.29	-128.97	-1161.11	1167.19	1.34	486853.07	755796.9	32°20'08.724N 103°30'18.534W

Pathfinder

Survey Report

Page 1
Job No: J-WT0601-0008-WT-WT
Date: 2/7/2006
Time: 12:04 pm
Wellpath ID: bilbrey
Date Created: 10/30/2005
Last Revision: 2/6/2006

Calculated using the Minimum Curvature Method
Computed using PDS VER2.2.6
Vertical Section Plane: 266.10 deg.

Survey Reference: WELLHEAD
Vertical Section Reference: WELLHEAD
Closure Reference: WELLHEAD
TVD Reference: WELLHEAD

MARBOB ENERGY
Bilbrey Fed COM #1
EDDY CO., NM
RIG: Patriot #3

DECL: 8.2 EAST TO TRUE NORTH
KBH = 20'

PATHFINDER OFFICE SUPERVISOR
CODY MEBANE
PATHFINDER FIELD ENGINEER
MIKE EVANS

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets (ft) (ft)		Closure Dist. (ft)	Dir. (deg.)	DLS (dg/100ft)
THE FOLLOWING ARE GYRODATA SURVEYS										
12155.00	1.62	250.54	12149.81	0.00	-53.38	90.09 N	47.36 E	101.78@	27.73	0.00
THE FOLLOWING ARE PATHFINDER SURVEYS										
12266.00	8.27	254.29	12260.33	111.00	-44.04	87.40 N	38.19 E	95.38@	23.60	5.99
12298.00	7.74	256.40	12292.02	32.00	-39.67	86.27 N	33.88 E	92.65@	21.44	1.89
12330.00	7.57	249.02	12323.74	32.00	-35.53	85.01 N	29.81 E	90.05@	19.33	3.12
12362.00	8.62	240.23	12355.42	32.00	-31.35	83.07 N	25.76 E	86.97@	17.23	5.06
12393.00	8.80	238.82	12386.06	31.00	-27.16	80.68 N	21.72 E	83.56@	15.07	0.90
12425.00	10.03	236.72	12417.63	32.00	-22.55	77.89 N	17.29 E	79.75@	12.52	3.99
12454.00	10.38	241.64	12446.17	29.00	-17.97	75.26 N	12.88 E	76.36@	9.71	3.24
12486.00	11.09	240.93	12477.61	32.00	-12.56	72.40 N	7.66 E	72.80@	6.04	2.26
12518.00	11.79	241.64	12508.98	32.00	-6.80	69.35 N	2.09 E	69.38@	1.73	2.23
12549.00	12.84	243.75	12539.26	31.00	-0.73	66.32 N	3.79W	66.43@	356.73	3.68
12581.00	14.25	244.45	12570.37	32.00	6.22	63.05 N	10.53W	63.92@	350.52	4.44
12613.00	15.66	245.15	12601.29	32.00	13.91	59.54 N	18.00W	62.20@	343.18	4.44
12644.00	16.89	245.50	12631.04	31.00	22.03	55.91 N	25.90W	61.62@	335.15	3.98
12676.00	18.65	244.80	12661.52	32.00	31.15	51.80 N	34.76W	62.38@	326.14	5.54
12708.00	19.53	245.15	12691.76	32.00	40.92	47.38 N	44.24W	64.82@	316.96	2.77
12739.00	20.76	245.15	12720.86	31.00	50.89	42.89 N	53.93W	68.90@	308.50	3.97
12771.00	21.82	245.15	12750.67	32.00	61.74	38.01 N	64.47W	74.84@	300.52	3.31
12803.00	22.87	244.80	12780.27	32.00	73.08	32.86 N	75.49W	82.34@	293.52	3.31
12834.00	24.28	245.86	12808.68	31.00	84.68	27.69 N	86.76W	91.07@	287.70	4.75
12866.00	26.04	247.97	12837.65	32.00	97.53	22.36 N	99.28W	101.77@	282.69	6.17
12898.00	26.92	248.67	12866.29	32.00	111.11	17.09 N	112.54W	113.83@	278.64	2.92
12929.00	27.62	248.67	12893.84	31.00	124.66	11.93 N	125.77W	126.33@	275.42	2.26
12961.00	27.27	248.32	12922.24	32.00	138.72	6.52 N	139.49W	139.64@	272.68	1.20
12993.00	26.74	248.33	12950.75	32.00	152.56	1.15 N	152.99W	153.00@	270.43	1.66
13025.00	25.87	248.32	12979.44	32.00	166.06	4.08 S	166.17W	166.22@	268.59	2.72
13057.00	24.99	247.26	13008.34	32.00	179.11	9.28 S	178.89W	179.13@	267.03	3.10
13088.00	25.69	248.67	13036.36	31.00	191.72	14.25 S	191.19W	191.72@	265.74	2.98

Pathfinder

Survey Report

Page 2
Date: 2/7/2006
Wellpath ID: bilbrey

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets (ft)		Closure Dist. (ft)	Dir. (deg.)	DLS (dg/100ft)
13120.00	25.87	249.72	13065.17	32.00	205.03	19.19 S	204.20W	205.1C@264.63		1.53
13152.00	26.04	250.07	13093.95	32.00	218.48	24.01 S	217.35W	218.67@263.70		0.72
13190.00	26.57	250.07	13128.01	38.00	234.67	29.75 S	233.18W	235.07@262.73		1.39
13222.00	27.27	249.72	13156.54	32.00	248.58	34.73 S	246.79W	249.22@261.99		2.24
13253.00	26.57	250.07	13184.18	31.00	262.06	39.55 S	259.97W	262.96@261.35		2.32
13285.00	26.04	251.48	13212.87	32.00	275.73	44.22 S	273.36W	276.91@260.81		2.56
13317.00	25.87	253.24	13241.64	32.00	289.33	48.47 S	286.70W	290.77@260.40		2.47
13349.00	25.87	254.65	13270.43	32.00	302.98	52.33 S	300.12W	304.65@260.11		1.92
13380.00	26.04	252.54	13298.31	31.00	316.23	56.16 S	313.13W	318.13@259.83		3.03
13412.00	27.45	251.48	13326.88	32.00	330.19	60.61 S	326.83W	332.4C@259.49		4.65
13444.00	29.91	252.18	13354.96	32.00	345.07	65.40 S	341.42W	347.62@259.16		7.76
13476.00	30.79	252.18	13382.57	32.00	360.77	70.35 S	356.81W	363.68@258.85		2.75
13507.00	30.97	251.83	13409.18	31.00	376.20	75.26 S	371.94W	379.48@258.56		0.82
13539.00	31.32	251.48	13436.56	32.00	392.23	80.47 S	387.65W	395.92@258.27		1.23
13571.00	30.97	251.83	13463.95	32.00	408.25	85.68 S	403.36W	412.36@258.01		1.23
13603.00	30.44	251.48	13491.47	32.00	424.08	90.82 S	418.87W	428.6C@257.77		1.75
13634.00	29.03	254.29	13518.38	31.00	439.04	95.35 S	433.56W	443.92@257.60		6.39
13666.00	28.50	259.92	13546.44	32.00	454.23	98.79 S	448.55W	459.3C@257.58		8.62
13697.00	28.68	262.73	13573.66	31.00	469.01	101.03 S	463.21W	474.1C@257.70		4.38
13729.00	29.74	265.90	13601.59	32.00	484.62	102.57 S	478.75W	489.61@257.91		5.86
13761.00	28.86	270.47	13629.50	32.00	500.26	103.07 S	494.39W	505.02@258.22		7.51
13792.00	27.80	272.93	13656.79	31.00	514.89	102.64 S	509.09W	519.34@258.60		5.09
13824.00	26.92	273.63	13685.21	32.00	529.49	101.80 S	523.77W	533.58@259.00		2.93
13856.00	27.10	272.22	13713.72	32.00	543.91	101.06 S	538.29W	547.65@259.37		2.08
13890.00	27.98	271.17	13743.87	34.00	559.56	100.60 S	554.00W	563.06@259.71		2.96
13921.00	27.62	270.82	13771.29	31.00	573.96	100.35 S	568.46W	577.24@259.99		1.28
13953.00	28.86	270.11	13799.48	32.00	589.06	100.22 S	583.60W	592.14@260.26		4.01
13985.00	29.91	270.11	13827.36	32.00	604.72	100.19 S	599.30W	607.62@260.51		3.28
14017.00	29.74	270.11	13855.13	32.00	620.60	100.16 S	615.21W	623.31@260.75		0.53
14049.00	29.38	269.76	13882.96	32.00	636.35	100.18 S	631.00W	638.9C@260.98		1.25
14080.00	29.21	269.76	13910.00	31.00	651.49	100.25 S	646.17W	653.9C@261.18		0.55
14112.00	29.03	270.82	13937.95	32.00	667.02	100.17 S	661.74W	669.28@261.39		1.71
14144.00	28.86	270.82	13965.95	32.00	682.45	99.95 S	677.22W	684.56@261.60		0.53
14175.00	28.50	270.82	13993.15	31.00	697.28	99.73 S	692.10W	699.25@261.80		1.16
14207.00	28.33	270.11	14021.29	32.00	712.46	99.61 S	707.33W	714.31@261.98		1.18
14239.00	29.21	268.71	14049.34	32.00	727.84	99.77 S	722.73W	729.58@262.14		3.46
14271.00	29.03	267.65	14077.30	32.00	743.40	100.26 S	738.29W	745.07@262.27		1.71
14302.00	28.68	267.65	14104.45	31.00	758.36	100.88 S	753.24W	759.96@262.37		1.13
14338.00	27.98	267.65	14136.14	36.00	775.43	101.58 S	770.31W	776.98@262.49		1.94
14366.00	27.80	267.30	14160.89	28.00	788.53	102.15 S	783.39W	790.03@262.57		0.87
14433.00	28.50	267.30	14219.96	67.00	820.13	103.64 S	814.97W	821.53@262.75		1.04
14461.00	27.80	268.68	14244.65	28.00	833.33	104.11 S	828.17W	834.65@262.83		3.41
14493.00	27.45	266.25	14273.00	32.00	848.16	104.76 S	842.99W	849.47@262.92		3.69
14524.00	27.10	266.60	14300.56	31.00	862.37	105.65 S	857.17W	863.65@262.97		1.24
14556.00	26.57	266.95	14329.11	32.00	876.81	106.46 S	871.59W	878.07@263.04		1.73
14588.00	26.39	267.30	14357.75	32.00	891.08	107.18 S	885.84W	892.3C@263.10		0.74
14652.00	25.87	266.60	14415.21	64.00	919.26	108.68 S	913.99W	920.42@263.22		0.94
14715.00	24.81	265.90	14472.15	63.00	946.22	110.44 S	940.89W	947.35@263.31		1.75