

Survey											
Survey Date	Measured Depth(ft)	Survey Angle	Survey Azimuth	Sidetrack Number	Survey TVD(ft)	Survey Vertical Section(ft)	Survey N/S Coordinate(ft)	Survey E/W Coordinate(ft)	Survey DLS(deg/100ft)	Tie-In?	Well Name
1-Dec-97	0	0	0	0	0	0	0	0	0	0 Y	VGWU #89
1-Dec-97	200	0.58	26.69	0	200	0.96	4.56	0.9	0.45	0.29 N	VGWU #89
1-Dec-97	600	0.31	96.58	0	600	3.22	4.56	1.77	0.23 N	VGWU #89	
1-Dec-97	1000	0.37	176.09	0	1000	8.63	4.56	2.03	0.3 N	VGWU #89	
1-Dec-97	1400	0.54	185.91	0	1400	13.17	4.56	2.47	0.35 N	VGWU #89	
1-Dec-97	1800	1.29	204.45	0	1800	18.53	4.56	0.76	0.35 N	VGWU #89	
1-Dec-97	2200	0.75	160.57	0	2200	23.05	4.56	-0.91	0.39 N	VGWU #89	
1-Dec-97	2600	1.48	85.38	0	2600	28.74	4.56	4.48	0.58 N	VGWU #89	
1-Dec-97	3000	0.96	76.27	0	3000	33.97	4.56	13.63	0.29 N	VGWU #89	
1-Dec-97	3400	0.54	11.21	0	3400	38.05	4.56	15.23	0.08 N	VGWU #89	
1-Dec-97	3800	1.25	336.68	0	3800	42.26	4.56	12.88	0.07 N	VGWU #89	
1-Dec-97	4200	0.97	339.27	0	4200	46.2	4.56	10.03	0.14 N	VGWU #89	
1-Dec-97	4600	1.22	329.87	0	4599	50.62	4.56	7.18	0.15 N	VGWU #89	
1-Dec-97	5000	1.45	296.12	0	4999	54.33	4.56	1.08	0.26 N	VGWU #89	
1-Dec-97	5400	2.2	245.74	0	5399	58.09	4.56	-11.89	0.05 N	VGWU #89	
1-Dec-97	5600	2.71	251.58	0	5599	61.73	4.56	-19.87	0.28 N	VGWU #89	
1-Dec-97	5770	1.95	245.16	0	5769	65.04	4.56	-26.31	0.47 N	VGWU #89	
2-Dec-97	5867	2.7	10	0	0	0	0	0	0	0 N	VGWU #89
3-Dec-97	5882	11.5	10	0	0	0	0	0	0	0 N	VGWU #89
3-Dec-97	5897	20.5	13.3	0	0	0	0	0	0	0 N	VGWU #89
3-Dec-97	5912	29.5	21.8	0	5909	-3.1	19.9	-24.2	64.5 N	VGWU #89	
3-Dec-97	5942	47.9	26.5	0	0	0	0	0	0	0 N	VGWU #89
4-Dec-97	5972	65.1	33.7	0	0	0	0	0	0	0 N	VGWU #89
4-Dec-97	5998	77.9	41.6	0	0	0	0	0	0	0 N	VGWU #89
4-Dec-97	6060	91.3	46.5	0	0	0	0	0	0	0 N	VGWU #89
4-Dec-97	6122	91	46.1	0	0	0	0	0	0	0 N	VGWU #89
4-Dec-97	6185	87.9	47.3	0	0	0	0	0	0	0 N	VGWU #89
4-Dec-97	6217	86	47.5	0	5958	281.5	229.1	169	6 N	VGWU #89	
5-Dec-97	6280	86.2	0	0	0	0	0	0	0	0 N	VGWU #89
5-Dec-97	6343	85.7	49	0	0	0	0	0	0	0 N	VGWU #89
5-Dec-97	6405	85.9	49.3	0	0	0	0	0	0	0 N	VGWU #89
5-Dec-97	6468	87.7	49.9	0	0	0	0	0	0	0 N	VGWU #89
5-Dec-97	6531	87.3	50.6	0	0	0	0	0	0	0 N	VGWU #89
5-Dec-97	6594	86.2	47.9	0	0	0	0	0	0	0 N	VGWU #89



SUR: I-36-17s-34e, 2000/S & 1070/E
BHL: H-36-17s-34e, 3037/S & 39/E
API # 30-025-33429

5-Dec-97	6626	86.9	47.6	0	5983	688.6	495.9	477.9	2.4 N	VGWU #89
6-Dec-97	6689	83.1	45.3	0	0	0	0	0	0 N	VGWU #89
6-Dec-97	6752	85.7	45.4	0	0	0	0	0	0 N	VGWU #89
6-Dec-97	6814	88.4	45.1	0	0	0	0	0	0 N	VGWU #89
6-Dec-97	6878	87.1	43	0	0	0	0	0	0 N	VGWU #89
6-Dec-97	6941	90.9	44.5	0	0	0	0	0	0 N	VGWU #89
6-Dec-97	7004	91.5	43.7	0	0	0	0	0	0 N	VGWU #89
6-Dec-97	7067	91.3	43.1	0	0	0	0	0	0 N	VGWU #89
6-Dec-97	7130	92.3	44.9	0	0	0	0	0	0 N	VGWU #89
6-Dec-97	7194	90.9	46.7	0	5997	1255.5	899.5	876	5.2 N	VGWU #89
6-Dec-97	7256	91.8	47.9	0	0	0	0	0	0 N	VGWU #89
7-Dec-97	7319	93.6	48.8	0	0	0	0	0	0 N	VGWU #89
7-Dec-97	7401	93.6	49.5	0	5987	1461.8	1036.7	1030.7	0 N	VGWU #89