

PACIFIC SURVEYS

GYROSCOPIC SURVEY OR DEVIATION SURVEY

Job No. 1111
 Company HELBENT DRILLING
 Well TEST No. 1
 Field CROSSROADS
 County LOS ANGELES State CA

Location: SIMONEN HOLLOW
 Other Services: VIBRO CALIPER

Permanent Datum G.L. Elevation
 Log Measured From G.L. 0 above perm datum
 Drilling Measured From G.L. 0-101-2001
 Date 01-01-2001

Run Number 01
 Date 01-01-2001
 Bottom Logged Interval 750'
 Depth Logged Interval 0'
 Top Log Interval 0'
 Pump Set @ N/A
 Time Running Prior to Survey N/A
 Time Running Prior to Survey N/A
 Max. Recorded Temp. N/A
 Pump Rate (GPM) N/A
 Time Valve Ready 06:30
 Time Lagged on Bottom 06:30
 Equipment Number P-S-3
 Recorder RIDGERS

Witnessed By M. HERGOS
 Run Number 1111
 Bit From To
 Tiding Record From To
 Size Weight From To
 Casing Record Size Weight From To
 Prod. String Size Weight From To
 Production String Size Weight From To

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All interpretations are opinions based on inferences from electrical or other measurements and Pacific Surveys cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Pacific Surveys' general terms and conditions set out in our current Price Schedule.

Comments

Entered Depth (ft)	Entered Inc. (deg)	Entered Azimuth (deg)	TVD (ft)	N/S Dep. (ft)	W/E Dep. (ft)	Total Dep. (ft)	Dep. Angle (deg)	Dog Leg (deg/100ft)
0.0	0.54	-9.15	0.0	0.0	0.0	0.0	0.00	0.0000
5.0	0.57	1.49	5.0	0.0	-0.0	0.0	-3.83	0.0000
10.0	0.58	18.55	10.0	0.1	0.0	0.1	3.20	0.0595
15.0	0.57	33.38	15.0	0.1	0.0	0.1	10.87	0.0518
20.0	0.59	53.86	20.0	0.2	0.1	0.2	19.17	0.0726
25.0	0.62	63.30	25.0	0.2	0.1	0.2	27.42	0.0000
30.0	0.61	83.62	30.0	0.2	0.2	0.3	35.48	0.0753
35.0	0.61	89.72	35.0	0.2	0.2	0.3	43.19	0.0000
40.0	0.66	96.94	40.0	0.2	0.3	0.3	50.25	0.0000
45.0	0.67	102.55	45.0	0.2	0.3	0.4	56.81	0.0000
50.0	0.61	112.49	50.0	0.2	0.4	0.4	62.66	0.0451
55.0	0.66	117.15	55.0	0.2	0.4	0.5	68.11	0.0000
60.0	0.66	129.49	60.0	0.1	0.5	0.5	73.59	0.0496
65.0	0.64	151.54	65.0	0.1	0.5	0.5	79.31	0.0872
70.0	0.68	171.06	70.0	0.0	0.5	0.5	85.47	0.0799
75.0	0.69	12.49	75.0	0.0	0.6	0.6	85.93	0.4700
80.0	0.65	28.15	80.0	0.1	0.6	0.6	80.88	0.0648
85.0	0.63	34.65	85.0	0.1	0.6	0.6	77.08	0.0000
90.0	0.62	42.92	90.0	0.2	0.7	0.7	74.24	0.0000
95.0	0.59	43.81	95.0	0.2	0.7	0.7	72.11	0.0000
100.0	0.60	73.96	100.0	0.2	0.7	0.8	71.27	0.1086
105.0	0.63	91.32	105.0	0.3	0.8	0.8	71.94	0.0652
110.0	0.61	100.52	110.0	0.3	0.8	0.9	73.40	0.0000
115.0	0.61	101.80	115.0	0.2	0.9	0.9	74.93	0.0000
120.0	0.61	106.47	120.0	0.2	0.9	1.0	76.45	0.0000
125.0	0.61	112.92	125.0	0.2	1.0	1.0	78.10	0.0000
130.0	0.61	116.51	130.0	0.2	1.0	1.1	79.82	0.0000
135.0	0.60	125.68	135.0	0.2	1.1	1.1	81.63	0.0000
140.0	0.62	132.83	140.0	0.1	1.1	1.1	83.60	0.0000
145.0	0.62	141.03	145.0	0.1	1.2	1.2	85.71	0.0000
150.0	0.61	147.09	150.0	0.0	1.2	1.2	87.89	0.0000
155.0	0.61	159.16	155.0	-0.0	1.2	1.2	-89.85	0.0448
160.0	0.61	167.08	160.0	-0.1	1.2	1.2	-87.49	0.0000
165.0	0.61	175.21	165.0	-0.1	1.2	1.3	-85.10	0.0000
170.0	0.61	6.18	170.0	-0.1	1.3	1.3	-85.22	0.4248
175.0	0.61	16.09	175.0	-0.1	1.3	1.3	-87.56	0.0000
180.0	0.61	28.12	180.0	-0.0	1.3	1.3	-89.74	0.0446
185.0	0.61	39.84	185.0	0.0	1.3	1.3	88.37	0.0436
190.0	0.63	47.78	190.0	0.1	1.4	1.4	86.79	0.0000
195.0	0.64	83.47	195.0	0.1	1.4	1.4	86.01	0.1356
200.0	0.75	82.49	200.0	0.1	1.5	1.5	85.89	0.0000
205.0	0.80	83.99	205.0	0.1	1.6	1.6	85.77	0.0000
210.0	0.86	83.95	210.0	0.1	1.6	1.6	85.69	0.0000
215.0	0.91	83.80	215.0	0.1	1.7	1.7	85.61	0.0000
220.0	0.88	96.88	220.0	0.1	1.8	1.8	85.81	0.0720
225.0	0.93	90.04	225.0	0.1	1.9	1.9	86.14	0.0413
230.0	0.91	85.39	230.0	0.1	1.9	1.9	86.20	0.0000
235.0	1.18	92.21	235.0	0.1	2.0	2.0	86.32	0.1052
240.0	1.01	94.18	240.0	0.1	2.1	2.1	86.63	0.0611
245.0	1.21	100.17	245.0	0.1	2.2	2.2	87.08	0.0796
250.0	1.08	89.00	250.0	0.1	2.3	2.3	87.40	0.0894
255.0	1.11	77.59	255.0	0.1	2.4	2.4	87.24	0.0764
260.0	1.17	110.52	260.0	0.1	2.5	2.5	87.51	0.2258
265.0	0.69	113.14	265.0	0.1	2.6	2.6	88.24	0.1671
270.0	0.43	130.08	270.0	0.1	2.6	2.6	88.82	0.1078
275.0	0.52	138.34	275.0	0.0	2.7	2.7	89.46	0.0410
280.0	0.35	138.35	280.0	-0.0	2.7	2.7	-89.93	0.0598
285.0	0.47	144.14	285.0	-0.0	2.7	2.7	-89.34	0.0434
290.0	0.46	138.13	290.0	-0.1	2.7	2.7	-88.68	0.0000
295.0	0.55	138.28	295.0	-0.1	2.8	2.8	-88.02	0.0000
300.0	0.65	87.95	300.0	-0.1	2.8	2.8	-87.65	0.1814
305.0	0.66	41.81	305.0	-0.1	2.9	2.9	-88.16	0.1789
310.0	1.38	156.78	310.0	-0.1	2.9	2.9	-87.97	0.6488
315.0	1.34	131.97	315.0	-0.2	3.0	3.0	-86.20	0.2038
320.0	1.28	42.22	320.0	-0.2	3.1	3.1	-86.42	0.6445
325.0	1.27	110.37	325.0	-0.2	3.2	3.2	-86.98	0.4987
330.0	0.97	132.77	330.0	-0.2	3.3	3.3	-86.17	0.1859
335.0	1.08	55.96	335.0	-0.2	3.4	3.4	-86.16	0.4451
340.0	1.15	22.72	340.0	-0.2	3.4	3.4	-87.46	0.2241
345.0	0.88	146.49	345.0	-0.1	3.5	3.5	-86.62	0.6312
350.0	2.10	129.99	350.0	-0.2	3.6	3.6	-86.14	0.4539
355.0	2.80	34.07	355.0	-0.2	3.8	3.8	-86.73	1.2927
360.0	1.76	33.20	360.0	-0.1	3.9	3.9	-89.26	0.3622
365.0	1.51	12.73	365.0	0.1	3.9	3.9	88.84	0.2208
370.0	2.00	154.40	370.0	0.1	4.1	4.1	88.69	1.1704
375.0	1.82	152.34	375.0	-0.1	4.1	4.1	-89.22	0.0695
380.0	1.83	139.96	379.9	-0.2	4.2	4.2	-87.45	0.1375
385.0	2.97	132.47	384.9	-0.3	4.4	4.4	-85.56	0.4131
390.0	2.47	154.46	389.9	-0.5	4.5	4.5	-83.32	0.4028
395.0	2.31	135.40	394.9	-0.7	4.6	4.7	-81.42	0.2813
400.0	2.35	109.65	399.9	-0.8	4.8	4.9	-80.46	0.3633
405.0	2.04	120.65	404.9	-0.9	5.0	5.1	-79.87	0.1825
410.0	2.47	117.72	409.9	-1.0	5.1	5.2	-79.17	0.1547
415.0	2.40	110.18	414.9	-1.1	5.3	5.4	-78.66	0.1144
420.0	2.32	148.50	419.9	-1.2	5.5	5.6	-77.69	0.5420
425.0	2.48	176.26	424.9	-1.4	5.6	5.8	-76.51	0.3280
430.0	2.07	135.18	429.9	-1.5	5.8	6.0	-75.64	0.1884
435.0	2.19	140.54	434.9	-1.6	5.9	6.1	-74.68	0.0801
440.0	2.35	150.48	439.9	-1.8	6.0	6.3	-73.52	0.1480
445.0	1.63	155.87	444.9	-1.9	6.1	6.4	-72.39	0.2590
450.0	2.01	129.77	449.9	-2.1	6.2	6.5	-71.60	0.3160
455.0	3.02	129.84	454.9	-2.2	6.4	6.7	-70.91	0.3520
460.0	2.88	117.27	459.9	-2.3	6.6	7.0	-70.39	0.2305
465.0	3.09	99.01	464.9	-2.4	6.8	7.2	-70.44	0.3388
470.0	2.72	101.42	469.9	-2.5	7.1	7.5	-70.76	0.1352
475.0	2.12	96.31	474.9	-2.5	7.3	7.7	-71.04	0.2249
480.0	1.88	101.45	479.9	-2.5	7.5	7.9	-71.26	0.1023
485.0	1.88	106.50	484.9	-2.6	7.6	8.0	-71.36	0.0579
490.0	2.45	83.20	489.9	-2.6	7.8	8.2	-71.67	0.3633
495.0	3.12	59.62	494.8	-2.5	8.0	8.4	-72.66	0.4606
500.0	2.99	88.21	499.8	-2.4	8.3	8.6	-73.62	0.5282
505.0	3.25	68.88	504.8	-2.4	8.6	8.9	-74.44	0.3767
510.0	3.86	89.95	509.8	-2.3	8.9	9.2	-75.29	0.5014
515.0	3.54	118.78	514.8	-2.4	9.2	9.5	-75.30	0.6526
520.0	3.57	121.55	519.8	-2.6	9.4	9.8	-74.81	0.0609
525.0	3.57	171.40	524.8	-2.8	9.6	10.0	-73.68	1.0491
530.0	2.96	153.35	529.8	-3.1	9.7	10.2	-72.35	0.4152
535.0	2.94	114.51	534.8	-3.3	9.9	10.4	-71.73	0.6844
540.0	3.80	72.29	539.8	-3.3	10.2	10.7	-72.13	0.8995
545.0	3.80	70.56	544.8	-3.2	10.5	10.9	-73.16	0.0401
550.0	5.31	60.37	549.7	-3.0	10.8	11.2	-74.50	0.5961
555.0	5.45	44.71	554.7	-2.7	11.2	11.5	-76.35	0.5132
560.0	5.45	29.05	559.7	-2.3	11.5	11.7	-78.48	0.5178
565.0	4.37	13.88	564.7	-1.9	11.6	11.8	-80.52	0.5893
570.0	3.97	6.50	569.7	-1.6	11.7	11.8	-82.28	0.2331
575.0	4.05	3.00	574.7	-1.2	11.7	11.8	-83.90	0.0878
580.0	3.62	4.28	579.6	-0.9	11.8	11.8	-85.60	0.1527
585.0	4.63	6.64	584.6	-0.5	11.8	11.8	-87.39	0.4253
590.0	4.89	6.67	589.6	-0.1	11.8	11.8	-89.39	0.0461
595.0	4.91	9.49	594.6	0.3	11.9	11.9	88.61	0.1114
600.0	4.93	3.77	599.6	0.7	11.9	12.0	86.58	0.1713
605.0	5.01	-10.88	604.6	1.1	11.9	12.0	84.51	0.4428
610.0	4.89	-14.12	609.5	1.6	11.8	11.9	82.45	0.1068
615.0	4.74	-5.28	614.5	2.0	11.8	11.9	80.44	0.2640
620.0	5.02	-17.11	619.5	2.4	11.7	11.9	78.40	0.3648
625.0	4.51	-15.70	624.5	2.8	11.6	11.9	76.40	0.1828
630.0	4.64	-35.80	629.5	3.2	11.4	11.8	74.52	0.5588
635.0	4.49	-32.58	634.5					