

Direction: 1345

Well: L.V. HAMNER A1

Closure Direction: 1345

Measured Depth (ft)	Inclination (deg.)	Azimuth (deg.)	True Vertical Depth (ft)	Vertical Section (ft)	North/ South (ft)	East/ West (ft)	Closure (ft)	Build Rate (deg/ft)	Walk Rate (deg/ft)	Dogleg Severity (d/100')	Tool Face (deg)
2575	0.64	170.27	2,574.95	-6.15	-6.15	3.50	=====	Tie-in Data			Gyro
2610	0.60	257.00	2,609.95	-7.08	-6.38	3.35	7.21	-0.001	2.478	2.43	
2635	0.90	326.00	2,634.95	-6.88	-6.25	3.12	6.98	0.012	2.760	3.54	
2665	2.40	321.40	2,664.93	-6.07	-5.56	2.59	6.14	0.050	-0.153	5.02	
2747	9.00	323.00	2,746.48	1.54	0.91	-2.34	2.51	0.080	0.020	8.05	
2779	11.00	317.00	2,778.00	6.62	5.14	-5.93	7.85	0.063	-0.188	7.04	
2885	15.00	326.00	2,881.27	28.79	23.92	-20.51	31.50	0.038	0.085	4.22	
2985	21.00	331.00	2,976.34	58.67	50.34	-36.45	62.15	0.060	0.050	6.19	
3075	26.50	323.00	3,058.70	93.28	80.51	-56.37	98.29	0.061	-0.089	7.07	
3165	31.50	327.00	3,137.40	134.70	116.30	-81.28	141.88	0.056	0.044	5.96	
3260	39.00	325.00	3,214.93	186.96	161.66	-111.98	196.66	0.079	-0.021	7.99	
3360	44.00	331.00	3,289.83	250.82	217.87	-146.91	262.78	0.050	0.060	6.38	
3455	47.00	338.00	3,356.45	317.70	279.00	-175.94	329.84	0.032	0.074	6.13	
3560	55.50	340.00	3,422.12	399.27	355.40	-205.18	410.37	0.081	0.019	8.23	
3619	54.50	341.00	3,455.96	447.54	400.95	-221.31	457.98	-0.017	0.017	2.19	
3675	52.00	340.00	3,489.46	492.35	443.25	-236.28	502.29	-0.045	-0.018	4.69	
3766	52.00	341.00	3,545.49	563.97	510.84	-260.22	573.30	0.000	0.011	0.87	
3860	48.00	341.00	3,605.90	635.90	578.91	-283.66	644.67	-0.043	0.000	4.26	
3955	49.00	343.00	3,668.85	707.02	646.58	-305.64	715.18	0.011	0.021	1.90	
4079	49.50	344.00	3,749.80	800.96	736.65	-332.31	808.13	0.004	0.008	0.73	
4173	49.50	345.00	3,810.84	872.42	805.52	-351.41	878.84	0.000	0.011	0.81	
4190	49.50	345.57	3,821.88	885.34	818.03	-354.70	891.61	0.000	0.034	2.55	
4239	48.00	341.00	3,854.20	922.16	853.30	-365.27	928.19	-0.031	-0.093	7.65	
4303	51.00	341.00	3,895.76	970.78	899.31	-381.11	976.73	0.047	0.000	4.69	
4366	51.00	341.00	3,935.41	1,019.70	945.60	-397.05	1,025.58	0.000	0.000	0.00	
4429	49.00	343.00	3,975.90	1,067.94	991.49	-411.98	1,073.67	-0.032	0.032	4.00	
4467	49.00	345.00	4,000.84	1,096.61	1,019.05	-419.88	1,102.16	0.000	0.053	3.97	
4491	51.00	345.00	4,016.26	1,114.99	1,036.81	-424.64	1,120.40	0.083	0.000	8.33	
4522	48.00	346.00	4,036.39	1,138.54	1,059.63	-430.54	1,143.76	-0.097	0.032	9.98	
4554	46.50	350.00	4,058.12	1,161.95	1,082.60	-435.44	1,166.89	-0.047	0.125	10.31	
4617	43.50	356.00	4,102.68	1,205.84	1,126.76	-440.92	1,209.96	-0.048	0.095	8.24	
4711	43.50	6.0									

H. O. B. C.

Diane G. Ramirez
Notary Public