

J. J. Liburton Drilling System

Survey Report

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Date: 9/18/98
Wellpath ID: survey

Measured Depth (ft)	Incl (deg.)	Drift Dir. (qdeg)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets (ft)		DLS (dg/100ft)
8716.00	11.40	S 73.20 W	31.00	8675.91	380.01	80.06 S	372.03W	0.65
8747.00	11.90	S 74.60 W	31.00	8706.27	386.26	81.79 S	378.04W	1.85
8777.00	12.30	S 74.40 W	30.00	8735.60	392.55	83.47 S	384.10W	1.34
8809.00	12.10	S 74.50 W	32.00	8766.88	399.31	85.29 S	390.62W	0.63
8839.00	12.20	S 73.90 W	30.00	8796.21	405.63	87.01 S	396.69W	0.54
8870.00	12.50	S 73.90 W	31.00	8826.49	412.26	88.85 S	403.06W	0.97
8902.00	12.90	S 73.70 W	32.00	8857.71	419.29	90.81 S	409.82W	1.26
8932.00	13.00	S 72.80 W	30.00	8886.95	426.01	92.75 S	416.26W	0.75
8962.00	13.10	S 72.90 W	30.00	8916.17	432.78	94.74 S	422.73W	0.34
8993.00	13.00	S 73.10 W	31.00	8946.37	439.78	96.79 S	429.42W	0.35
9022.00	13.00	S 73.00 W	29.00	8974.63	446.30	98.69 S	435.66W	0.08
9053.00	13.10	S 73.50 W	31.00	9004.83	453.30	100.71 S	442.37W	0.49
9083.00	13.00	S 73.50 W	30.00	9034.05	460.07	102.63 S	448.86W	0.33
9113.00	13.10	S 72.10 W	30.00	9063.28	466.84	104.64 S	455.33W	1.11
9144.00	13.00	S 71.00 W	31.00	9093.48	473.83	106.85 S	461.97W	0.86
9174.00	13.20	S 71.30 W	30.00	9122.70	480.61	109.05 S	468.41W	0.70
9205.00	13.10	S 70.30 W	31.00	9152.88	487.65	111.37 S	475.07W	0.80
9235.00	13.00	S 70.60 W	30.00	9182.11	494.40	113.63 S	481.45W	0.40
9266.00	13.20	S 70.60 W	31.00	9212.30	501.41	115.97 S	488.08W	0.65
9297.00	13.10	S 70.60 W	31.00	9242.49	508.44	118.31 S	494.73W	0.32
9328.00	12.80	S 72.00 W	31.00	9272.70	515.38	120.54 S	501.31W	1.40
9359.00	12.50	S 73.10 W	31.00	9302.95	522.16	122.57 S	507.79W	1.24
9390.00	12.30	S 73.60 W	31.00	9333.23	528.81	124.48 S	514.16W	0.73
9421.00	12.30	S 75.00 W	31.00	9363.51	535.42	126.27 S	520.52W	0.96
9452.00	12.30	S 75.50 W	31.00	9393.80	542.02	127.95 S	526.91W	0.34
9484.00	12.40	S 75.20 W	32.00	9425.06	548.86	129.68 S	533.53W	0.37
9515.00	12.40	S 75.10 W	31.00	9455.34	555.52	131.39 S	539.96W	0.07
9545.00	12.50	S 74.70 W	30.00	9484.63	561.99	133.07 S	546.21W	0.44
9578.00	12.30	S 75.30 W	33.00	9516.86	569.08	134.91 S	553.05W	0.72
9609.00	12.20	S 75.00 W	31.00	9547.16	575.65	136.59 S	559.41W	0.38
9640.00	12.00	S 75.60 W	31.00	9577.47	582.15	138.24 S	565.69W	0.76
9670.00	12.00	S 75.60 W	30.00	9606.81	588.39	139.79 S	571.74W	0.00
9701.00	12.40	S 74.90 W	31.00	9637.11	594.94	141.46 S	578.07W	1.38
9732.00	12.50	S 74.60 W	31.00	9667.38	601.62	143.22 S	584.52W	0.38
9762.00	12.60	S 74.60 W	30.00	9696.67	608.14	144.95 S	590.80W	0.33
9792.00	12.70	S 74.60 W	30.00	9725.94	614.71	146.70 S	597.14W	0.33