Phoenix Technology Services
Survey Report 30-Jul-2018 08:11:36

Kaiser-Francis Oil Company

Bell Lake Unit South 430H
Lea County, NM (NAD 83)
OH / Job 63046
Phoenix MWD Surveys

Surface Loc.:
Northing: (Y) 453959.70
Easting: (X) 798187.25
RKB Elev: 3609.20'
GL Elev: 3601.20'

Survey Type Information:
H 277.00 - 1221.00 TELEDRIFT SURVEYS : MWD
H 1428.00 - 19877.00 PHOENIX MWD SURVEYS : MWD+HDGM

Measured Depth (ft)	Incl.	Azim.	Sub-Sea Depth (ft)	Vertical Depth (ft)	Local Coor (+N/-S) (ft)	(+E/-W) (ft)	UTM Coord Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Annotation
1221	0.4	323	-2388.28	1220.92	13.06	-1.38	453972.8	798185.9	13.09	0	Tie In
1428	1.32	310.33	-2181.31	1427.89	15.18	-3.63	453974.9	798183.6	15.26	0.45	First Phoenix MWD Survey
1520	0.6	301.25	-2089.32	1519.88	16.11	-4.85	453975.8	798182.4	16.23	0.8	
1612	0.32	321.25	-1997.32	1611.88	16.56	-5.42	453976.3	798181.8	16.69	0.35	
1704	0.19	265.98	-1905.32	1703.88	16.75	-5.74	453976.5	798181.5	16.89	0.29	
1799	0.59	263.51	-1810.33	1798.87	16.69	-6.38	453976.4	798180.9	16.84	0.42	
1893	0.66	263.59	-1716.33	1892.87	16.57	-7.4	453976.3	798179.9	16.74	0.07	
1987	0.58	256.58	-1622.34	1986.86	16.4	-8.4	453976.1	798178.9	16.6	0.12	
2082	0.62	272.95	-1527.34	2081.86	16.32	-9.38	453976	798177.9	16.54	0.18	
2176	0.94	281.65	-1433.35	2175.85	16.5	-10.64	453976.2	798176.6	16.75	0.36	
2270	0.21	179.08	-1339.35	2269.85	16.48	-11.4	453976.2	798175.9	16.75	1.07	
2364	0.19	234.91	-1245.36	2363.84	16.22	-11.52	453975.9	798175.7	16.49	0.2	
2457	0.39	294.88	-1152.36	2456.84	16.26	-11.94	453976	798175.3	16.55	0.36	
2552	0.92	131.54	-1057.36	2551.84	15.89	-11.66	453975.6	798175.6	16.17	1.37	
2647	0.79	139.03	-962.37	2646.83	14.89	-10.66	453974.6	798176.6	15.15	0.18	
2741	0.56	126.1	-868.38	2740.82	14.13	-9.86	453973.8	798177.4	14.37	0.29	
2835	0.74	106.32	-774.38	2834.82	13.69	-8.91	453973.4	798178.3	13.9	0.3	
2930	1.52	106.71	-679.4	2929.8	13.16	-7.11	453972.9	798180.1	13.33	0.82	
3024	1.94	110.47	-585.44	3023.76	12.24	-4.43	453971.9	798182.8	12.35	0.46	
3118	3.6	112.03	-491.56	3117.64	10.58	-0.2	453970.3	798187.1	10.58	1.77	
3213	4.79	113.56	-396.81	3212.39	7.88	6.2	453967.6	798193.5	7.73	1.26	
3308	6.51	107.78	-302.28	3306.92	4.65	14.96	453964.4	798202.2	4.29	1.9	
3402	6.63	108.54	-208.9	3400.3	1.29	25.18	453961	798212.4	0.69	0.16	
3496	6.98	107.86	-115.56	3493.64	-2.18	35.77	453957.5	798223	-3.04	0.38	
3590	6.96	106.45	-22.25	3586.95	-5.55	46.66	453954.2	798233.9	-6.66	0.18	
3684	6.77	105.46	71.07	3680.27	-8.64	57.47	453951.1	798244.7	-10.01	0.24	
3779	6.44	102.14	165.44	3774.64	-11.25	68.07	453948.5	798255.3	-12.88	0.53	
3873	6.21	100.06	258.87	3868.07	-13.25	78.23	453946.5	798265.5	-15.11	0.35	
3968	5.91	101.62	353.34	3962.54	-15.13	88.08	453944.6	798275.3	-17.23	0.36	
4063	5.78	103.45	447.85	4057.05	-17.23	97.52	453942.5	798284.8	-19.56	0.24	
4158	6	101.15	542.34	4151.54	-19.3	107.05	453940.4	798294.3	-21.86	0.34	
4252	6.25	99.47	635.81	4245.01	-21.09	116.92	453938.6	798304.2	-23.88	0.33	
4347	7.46	104.4	730.13	4339.33	-23.48	127.99	453936.2	798315.2	-26.53	1.42	
4442	7.98	108.45	824.27	4433.47	-27.1	140.22	453932.6	798327.5	-30.44	0.79	
4536	5.69	108.61	917.59	4526.79	-30.65	150.83	453929.1	798338.1	-34.25	2.44	
4631	5.89	107.65	1012.11	4621.31	-33.63	159.93	453926.1	798347.2	-37.45	0.23	
4725	5.87	107.27	1105.61	4714.81	-36.52	169.12	453923.2	798356.4	-40.55	0.05	
4819	5.11	112.1	1199.18	4808.38	-39.52	177.59	453920.2	798364.8	-43.76	0.95	
4914	4.09	106.38	1293.88	4903.08	-42.07	184.76	453917.6	798372	-46.48	1.18	
5008	3.46	102.22	1387.67	4996.87	-43.62	190.75	453916.1	798378	-48.16	0.73	
5102	3.09	104.92	1481.52	5090.72	-44.87	195.97	453914.8	798383.2	-49.54	0.43	
5197	2.96	100.98	1576.39	5185.59	-46	200.85	453913.7	798388.1	-50.78	0.26	
5292	1.82	107.48	1671.3	5280.5	-46.92	204.7	453912.8	798392	-51.8	1.23	
5386	1.62	102.77	1765.26	5374.46	-47.66	207.42	453912	798394.7	-52.6	0.26	
5481	0.73	125.66	1860.24	5469.44	-48.31	209.22	453911.4	798396.5	-53.3	1.04	
5576	0.59	162.87	1955.23	5564.43	-49.13	209.85	453910.6	798397.1	-54.13	0.46	
5670	0.57	139.39	2049.23	5658.43	-49.94	210.3	453909.8	798397.6	-54.96	0.25	
5765	0.44	130.43	2144.22	5753.42	-50.54	210.89	453909.2	798398.1	-55.57	0.16	
5859	0.26	91.65	2238.22	5847.42	-50.78	211.37	453908.9	798398.6	-55.82	0.31	
5954	0.14	337.42	2333.22	5942.42	-50.68	211.55	453909	798398.8	-55.72	0.36	
6048	0.16	350.04	2427.22	6036.42	-50.44	211.48	453909.3	798398.7	-55.49	0.04	
6143	0.4	340.47	2522.22	6131.42	-50	211.34	453909.7	798398.6	-55.04	0.26	
6238	0.2	334.55	2617.22	6226.42	-49.54	211.16	453910.2	798398.4	-54.57	0.21	
6332	0.31	4.63	2711.22	6320.42	-49.14	211.11	453910.6	798398.4	-54.17	0.18	
6427	0.24	354.72	2806.22	6415.42	-48.68	211.11	453911	798398.4	-53.72	0.09	
6522	0.54	340.28	2901.22	6510.42	-48.06	210.95	453911.6	798398.2	-53.09	0.33	
6617	0.63	326.35	2996.21	6605.41	-47.21	210.51	453912.5	798397.8	-52.23	0.18	
6711	0.55	325.02	3090.21	6699.41	-46.41	209.96	453913.3	798397.2	-51.41	0.09	
6806	0.5	334.51	3185.2	6794.4	-45.66	209.52	453914	798396.8	-50.66	0.11	
6900	0.68	307.46	3279.2	6888.4	-44.95	208.9	453914.8	798396.2	-49.93	0.35	
6994	0.45	317.02	3373.19	6982.39	-44.34	208.21	453915.4	798395.5	-49.31	0.26	
7088	0.7	303.56	3467.19	7076.39	-43.75	207.48	453916	798394.7	-48.7	0.3	
7182	0.54	309.1	3561.18	7170.38	-43.16	206.65	453916.5	798393.9	-48.08	0.18	

7276	0.63	285.99	3655.18	7264.38	-42.73	205.81	453917	798393.1	-47.64	0.27
7370	0.46	265.89	3749.17	7358.37	-42.62	204.94	453917.1	798392.2	-47.51	0.27
7466	0.42	270.49	3845.17	7454.37	-42.64	204.2	453917.1	798391.5	-47.51	0.06
7560	0.76	261.37	3939.16	7548.36	-42.73	203.24	453917	798390.5	-47.58	0.37
7655	0.68	251.04	4034.16	7643.36	-43.01	202.09	453916.7	798389.3	-47.83	0.16
7750	0.64	248.19	4129.15	7738.35	-43.39	201.06	453916.3	798388.3	-48.19	0.05
7844	0.69	260.4	4223.14	7832.34	-43.68	200.02	453916	798387.3	-48.45	0.16
7939	0.87	271.43	4318.14	7927.34	-43.76	198.73	453915.9	798386	-48.5	0.25
8033	1.09	257.9	4412.12	8021.32	-43.93	197.14	453915.8	798384.4	-48.63	0.34
8128	0.32	270.11	4507.11	8116.31	-44.12	195.99	453915.6	798383.2	-48.79	0.82
8222	0.25	223.77	4601.11	8210.31	-44.27	195.59	453915.4	798382.8	-48.93	0.25
8317	0.33	271.89	4696.11	8305.31	-44.41	195.17	453915.3	798382.4	-49.06	0.26
8412	0.83	267.15	4791.11	8400.31	-44.43	194.21	453915.3	798381.5	-49.06	0.53
8506	1.07	216.3	4885.1	8494.3	-45.17	193.01	453914.5	798380.3	-49.77	0.9
8601	0.54	257.09	4980.09	8589.29	-45.99	192.05	453913.7	798379.3	-50.57	0.79
8696	0.11	75.25	5075.09	8684.29	-46.06	191.7	453913.6	798379	-50.63	0.68
8789	0.17	91.31	5168.08	8777.28	-46.04	191.93	453913.7	798379.2	-50.62	0.08
8884	0.32	341.47	5263.08	8872.28	-45.8	191.98	453913.9	798379.2	-50.37	0.43
8978	0.29	219.18	5357.08	8966.28	-45.73	191.75	453914	798379	-50.3	0.57
9073	0.63	229.71	5452.08	9061.28	-46.26	191.2	453913.4	798378.5	-50.81	0.37
9168	0.63	243.22	5547.07	9156.27	-46.83	190.34	453912.9	798377.6	-51.37	0.16
9262	0.63	250.1	5641.07	9250.27	-47.24	189.39	453912.5	798376.6	-51.75	0.08
9358	0.47	192.64	5737.07	9346.27	-47.8	188.81	453911.9	798376.1	-52.3	0.57
9452	1.65	77.91	5831.05	9440.25	-47.89	190.05	453911.8	798377.3	-52.42	2.02
9546	1.52	95.02	5925.02	9534.22	-47.72	192.61	453912	798379.9	-52.31	0.52
9641	0.84	119.29	6020	9629.2	-48.17	194.47	453911.5	798381.7	-52.81	0.87
9736	0.72	143.41	6114.99	9724.19	-48.99	195.44	453910.7	798382.7	-53.65	0.36
9831	0.81	96.38	6209.98	9819.18	-49.54	196.46	453910.2	798383.7	-54.23	0.65
9926	0.69	73.91	6304.97	9914.17	-49.46	197.68	453910.2	798384.9	-54.17	0.33
10021	0.89	39.27	6399.96	10009.16	-48.73	198.69	453911	798385.9	-53.47	0.53
10116	1.1	20.63	6494.95	10104.15	-47.31	199.48	453912.4	798386.7	-52.06	0.4
10211	0.58	335.31	6589.94	10199.14	-46.02	199.6	453913.7	798386.9	-50.78	0.85
10306	0.38	20.78	6684.94	10294.14	-45.28	199.51	453914.4	798386.8	-50.04	0.44
10401	0.51	348.72	6779.94	10389.14	-44.58	199.54	453915.1	798386.8	-49.33	0.29
10496	0.62	335.32	6874.93	10484.13	-43.69	199.24	453916	798386.5	-48.45	0.18
10591	0.73	302.88	6969.92	10579.12	-42.9	198.52	453916.8	798385.8	-47.63	0.41
10685	0.53	313.43	7063.92	10673.12	-42.27	197.7	453917.4	798385	-46.99	0.25
10780	0.56	205.85	7158.92	10768.12	-42.39	197.18	453917.3	798384.4	-47.09	0.93
10876	0.89	257.33	7254.91	10864.11	-42.98	196.25	453916.7	798383.5	-47.66	0.73
10971	1.49	294.04	7349.89	10959.09	-42.63	194.4	453917.1	798381.7	-47.27	0.99
11065	1.69	279.36	7443.85	11053.05	-41.91	191.92	453917.8	798379.2	-46.49	0.48
11096	1.7	278.04	7474.84	11084.04	-41.77	191.01	453917.9	798378.3	-46.33	0.13
11139	2.04	273.82	7517.82	11127.02	-41.63	189.62	453918.1	798376.9	-46.15	0.85
11186	1.56	283.89	7564.79	11173.99	-41.42	188.16	453918.3	798375.4	-45.91	1.22
11233	3.26	332.6	7611.75	11220.95	-40.08	186.92	453919.6	798374.2	-44.54	5.36
11280	9.78	350.21	7658.43	11267.63	-34.96	185.63	453924.7	798372.9	-39.38	14.35
11328	17.01	357.92	7705.1	11314.3	-23.91	184.68	453935.8	798371.9	-28.32	15.48
11375	23.06	1.19	7749.23	11358.43	-7.82	184.62	453951.9	798371.9	-12.23	13.09
11423	28.3	4.56	7792.48	11401.68	12.94	185.72	453972.6	798373	8.49	11.33
11470	33	7.72	7832.9	11442.1	36.74	188.33	453996.4	798375.6	32.23	10.57
11517	36.3	7.03	7871.56	11480.76	63.24	191.75	454022.9	798379	58.64	7.07
11564	41.05	4.94	7908.25	11517.45	92.44	194.78	454052.1	798382	87.76	10.48
11612	44.01	1.48	7943.62	11552.82	124.82	196.57	454084.5	798383.8	120.09	7.86
11659	47.92	358.97	7976.29	11585.49	158.6	196.68	454118.3	798383.9	153.85	9.16
11707	49.69	359.33	8007.9	11617.1	194.71	196.15	454154.4	798383.4	189.97	3.73
11754	53.73	357.67	8037.02	11646.22	231.58	195.17	454191.3	798382.4	226.85	9.03
11801	57.22	355.77	8063.65	11672.85	270.23	192.94	454229.9	798380.2	265.54	8.14
11848	60.97	355.18	8087.79	11696.99	310.42	189.75	454270.1	798377	305.8	8.05
11896	67.48	357.18	8108.65	11717.85	353.53	186.9	454313.2	798374.2	348.96	14.07
11943	73.17	2.47	8124.48	11733.68	397.75	186.8	454357.5	798374.1	393.17	16.09
11991	76.51	3.59	8137.03	11746.23	444	189.25	454403.7	798376.5	439.35	7.31
12038	79.62	2.72	8146.75	11755.95	489.91	191.78	454449.6	798379	485.19	6.86
12086	87.16	0.62	8152.27	11761.47	537.53	193.16	454497.2	798380.4	532.76	16.3
12113	91.89	0.68	8152.49	11761.69	564.52	193.47	454524.2	798380.7	559.74	17.52
12208	93.9	359.96	8147.7	11756.9	659.4	194	454619.1	798381.3	654.57	2.25
12303	89.67	358.64	8144.74	11753.94	754.32	192.84	454714	798380.1	749.49	4.66
12398	90.79	357.74	8144.36	11753.56	849.27	189.84	454809	798377.1	844.49	1.51
12493	87.53	357.31	8145.75	11754.95	944.16	185.73	454903.9	798373	939.45	3.46
12587	87.79	355.68	8149.59	11758.79	1037.9	179.99	454997.6	798367.2	1033.3	1.75
12682	90.56	355.77	8150.96	11760.16	1132.62	172.91	455092.3	798360.2	1128.16	2.92
12777	90.13	356.4	8150.38	11759.58	1227.39	166.43	455187.1	798353.7	1223.06	0.8
12871	88.47	356.96	8151.53	11760.73	1321.22	160.98	455280.9	798348.2	1317	1.86
12966	85.64	358.41	8156.41	11765.61	1416.01	157.15	455375.7	798344.4	1411.85	3.35
13061	88.99	358.35	8160.86	11770.06	1510.85	154.47	455470.6	798341.7	1506.73	3.53
13156	90.39	356	8161.38	11770.58	1605.73	149.78	455565.4	798337	1601.69	2.88
13251	91.99	356.94	8159.4	11768.6	1700.52	143.94	455660.2	798331.2	1696.59	1.95
13346	90.93	358.32	8156.98	11766.18	1795.41	140.01	455755.1	798327.3	1791.55	1.83
13441	90.39	357.2	8155.89	11765.09	1890.33	136.3	455850	798323.6	1886.53	1.31
13535	87.11	358.43	8157.94	11767.14	1984.22	132.71	455943.9	798320	1980.48	3.73
13630	90.02	0.3	8160.32	11769.52	2079.17	131.66	456038.9	798318.9	2075.43	3.64
13725	89.72	356.53	8160.53	11769.73	2174.12	129.04	456133.8	798316.3	2170.41	3.98
13820	89.56	355.09	8161.13	11770.33	2268.86	122.09	456228.6	798309.3	2265.29	1.53
13914	85.64	359.91	8165.07	11774.27	2362.64	117.99	456322.3	798305.2	2359.14	6.61
14009	86.52	2.02	8171.56	11780.76	2457.4	119.59	456417.1	798306.8	2453.84	2.4
14104	88.15	1.61	8175.98	11785.18	2552.24	122.6	456511.9	798309.9	2548.58	1.77
14198	87.51	0.87	8179.54	11788.74	2646.15	124.63	456605.9	798311.9	2642.42	1.04
14293	87.46	2.34	8183.71	11792.91	2741.02	127.29	456700.7	798314.5	2737.2	1.55
14388	89.33	2.92	8186.37	11795.57	2835.88	131.65	456795.6	798318.9	2831.92	2.06

14483	91.95	0.12	8185.31	11794.51	2930.82	134.17	456890.5	798321.4	2926.78	4.04
14577	91.69	359.71	8182.32	11791.52	3024.78	134.03	456984.5	798321.3	3020.71	0.52
14672	90.62	358.31	8180.41	11789.61	3119.74	132.38	457079.4	798319.6	3115.68	1.85
14767	87.11	356.83	8182.29	11791.49	3214.62	128.36	457174.3	798315.6	3210.63	4.01
14862	91.74	0.79	8183.24	11792.44	3309.55	126.39	457269.3	798313.6	3305.58	6.41
14957	89.24	358.59	8182.43	11791.63	3404.53	125.87	457364.2	798313.1	3400.55	3.51
15051	88.59	357.53	8184.21	11793.41	3498.46	122.69	457458.2	798309.9	3494.52	1.32
15146	92.51	359.15	8183.3	11792.5	3593.39	119.94	457553.1	798307.2	3589.49	4.46
15241	93.05	359.13	8178.69	11787.89	3688.27	118.52	457648	798305.8	3684.38	0.57
15335	93.23	359.72	8173.54	11782.74	3782.12	117.58	457741.8	798304.8	3778.23	0.66
15430	89.5	359.66	8171.28	11780.48	3877.08	117.06	457836.8	798304.3	3873.17	3.93
15524	90.88	0.91	8170.97	11780.17	3971.07	117.53	457930.8	798304.8	3967.12	1.98
15619	87.99	359.82	8171.9	11781.1	4066.05	118.13	458025.8	798305.4	4062.06	3.25
15714	88.11	358.93	8175.14	11784.34	4160.99	117.1	458120.7	798304.4	4157	0.94
15808	87.27	356.4	8178.93	11788.13	4254.83	113.27	458214.5	798300.5	4250.9	2.83
15903	94.51	359.8	8177.45	11786.65	4349.69	110.12	458309.4	798297.4	4345.81	8.42
15998	90.21	359.47	8173.54	11782.74	4444.58	109.52	458404.3	798296.8	4440.69	4.54
16093	86.97	358.84	8175.88	11785.08	4539.53	108.12	458499.2	798295.4	4535.65	3.47
16187	87.5	358.62	8180.41	11789.61	4633.4	106.04	458593.1	798293.3	4629.54	0.61
16282	89.78	358.53	8182.67	11791.87	4728.33	103.68	458688	798290.9	4724.5	2.4
16377	88.99	357.68	8183.69	11792.89	4823.27	100.53	458783	798287.8	4819.49	1.22
16472	89.84	357.99	8184.66	11793.86	4918.2	96.95	458877.9	798284.2	4914.48	0.95
16567	88.13	359.23	8186.34	11795.54	5013.15	94.64	458972.9	798281.9	5009.46	2.22
16661	88.38	0.38	8189.2	11798.4	5107.11	94.32	459066.8	798281.6	5103.39	1.25
16756	84.57	0.19	8195.04	11804.24	5201.91	94.79	459161.6	798282	5198.16	4.02
16853	83.8	359.4	8204.87	11814.07	5298.41	94.45	459258.1	798281.7	5294.63	1.13
16948	88.07	359.29	8211.6	11820.8	5393.14	93.37	459352.8	798280.6	5389.37	4.5
17043	90.91	0.72	8212.45	11821.65	5488.12	93.37	459447.8	798280.6	5484.32	3.35
17137	89.27	358.3	8212.3	11821.5	5582.11	92.57	459541.8	798279.8	5578.3	3.11
17232	85.87	357.65	8216.33	11825.53	5676.95	89.22	459636.7	798276.5	5673.2	3.64
17327	86.68	356.42	8222.5	11831.7	5771.62	84.31	459731.3	798271.6	5767.96	1.55
17421	88.35	357.61	8226.58	11835.78	5865.4	79.42	459825.1	798266.7	5861.82	2.18
17516	90.9	357.31	8227.2	11836.4	5960.3	75.21	459920	798262.5	5956.8	2.7
17611	90.08	358.38	8226.38	11835.58	6055.22	71.64	460014.9	798258.9	6051.78	1.42
17705	87.55	357.17	8228.33	11837.53	6149.12	67.99	460108.8	798255.2	6145.74	2.98
17800	90.05	358.32	8230.32	11839.52	6244.02	64.26	460203.7	798251.5	6240.7	2.9
17895	90.76	358.66	8229.65	11838.85	6338.98	61.75	460298.7	798249	6335.7	0.83
17990	86.02	358.65	8232.31	11841.51	6433.89	59.53	460393.6	798246.8	6430.63	4.99
18084	87.7	356.38	8237.46	11846.66	6527.65	55.46	460487.4	798242.7	6524.46	3
18179	91.35	355.15	8238.25	11847.45	6622.37	48.44	460582.1	798235.7	6619.32	4.05
18274	94.92	355.61	8233.06	11842.26	6716.91	40.8	460676.6	798228.1	6714.01	3.79
18369	94.95	357.4	8224.88	11834.08	6811.38	35.03	460771.1	798222.3	6808.59	1.88
18464	95.75	1.08	8216.02	11825.22	6905.94	33.78	460865.6	798221	6903.15	3.95
18558	91.79	2.38	8209.84	11819.04	6999.67	36.61	460959.4	798223.9	6996.79	4.43
18653	87.18	3.48	8210.7	11819.9	7094.51	41.46	461054.2	798228.7	7091.5	4.99
18748	82.57	359.79	8219.18	11828.38	7189.05	44.17	461148.8	798231.4	7185.94	6.21
18842	83.96	359.91	8230.21	11839.41	7282.4	43.93	461242.1	798231.2	7279.27	1.48
18937	83.09	357.73	8240.92	11850.12	7376.77	41.99	461336.5	798229.2	7373.66	2.46
19032	86.81	357.59	8249.28	11858.48	7471.31	38.12	461431	798225.4	7468.26	3.92
19127	89.18	356.11	8252.61	11861.81	7566.09	32.91	461525.8	798220.2	7563.14	2.94
19221	94.26	356.1	8249.79	11858.99	7659.8	26.53	461619.5	798213.8	7656.98	5.4
19316	92.51	354.39	8244.18	11853.38	7754.3	18.66	461714	798205.9	7751.64	2.57
19411	92.16	354.6	8240.31	11849.51	7848.79	9.56	461808.5	798196.8	7846.32	0.43
19506	91.91	353.07	8236.93	11846.13	7943.18	-0.64	461902.9	798186.6	7940.92	1.63
19600	95.94	351.5	8230.5	11839.7	8036.09	-13.22	461995.8	798174	8034.1	4.6
19695	92.02	349.23	8223.91	11833.11	8129.49	-29.08	462089.2	798158.2	8127.87	4.77
19822	89.36	342.79	8222.37	11831.57	8252.64	-59.77	462212.3	798127.5	8251.71	5.49 Final Phoenix MWD Survey
19877	89.36	342.79	8222.99	11832.19	8305.18	-76.04	462264.9	798111.2	8304.62	0 Projection to TD

All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North.
Vertical depths are relative to RKB. Northings and Eastings are relative to Well.

The Dogleg Severity is in Degrees per 100 feet.
Vertical Section is from Slot and calculated along an Azimuth of 358.630° (Grid).

Coordinate System is North American Datum 1983 US State Plane 1983, New Mexico Eastern Zone.
Grid Convergence at Surface is 0.443°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 19877.00ft.,
the Bottom Hole Displacement is 8305.52ft., in the Direction of 358.630° (Grid).