

May 8, 1996
8:54 pm

PathTracker 4.0
Survey Calculation Program
Performance Drilling Specialists Inc.

Page 1 of 2

Customer: Texaco Exploration & Production, Inc.
WellName: Central Vacuum Unit, Well #168
Location: Lea County, New Mexico
Section 36, Township 17-S, Range 34-E
25 miles NW of Hobbs, New Mexico

Surface Unit F 2068' @ 1426/h
BHL Unit F 1923' @ 1209/h

Vertical Section Calculated on: 313.6900
Survey Calculation Method: Minimum Curvature
FileName: C:\PATHTRKR\CVU168.SR3

#	Depth Feet	Inc Degrees	Azimuth Degrees	TVD Feet	North Feet	East Feet	Section Feet	Dogleg /100f	BldRate /100f	TrnRate /100f
Assume Vertical to bottom of Casing										
0	1558.00	0.70	35.60	1558.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1587.00	0.70	35.60	1587.00	0.29	0.21	0.05	0.00	0.00	0.00
2	2087.00	1.00	73.00	2086.95	4.05	6.16	-1.66	0.12	0.06	7.48
3	2587.00	2.40	71.50	2586.71	8.64	20.26	-8.68	0.28	0.28	-0.30
4	2846.00	2.00	73.20	2845.52	11.67	29.73	-13.43	0.16	-0.15	0.66
5	2949.00	1.50	41.70	2948.48	13.20	32.34	-14.27	1.03	-0.49	-30.58
6	3012.00	2.00	359.10	3011.45	14.91	32.88	-13.47	2.15	0.79	-67.62
7	3075.00	3.30	342.40	3074.38	17.74	32.31	-11.11	2.38	2.06	-26.51
8	3138.00	4.60	334.50	3137.23	21.75	30.67	-7.16	2.23	2.06	-12.54
9	3201.00	6.10	326.90	3199.95	26.83	27.76	-1.54	2.63	2.38	-12.06
10	3263.00	7.60	318.30	3261.51	32.66	23.23	5.76	2.92	2.42	-13.87
11	3326.00	9.30	312.90	3323.83	39.23	16.73	15.00	2.98	2.70	-8.57
12	3389.00	10.80	310.00	3385.86	46.49	8.48	25.98	2.51	2.38	-4.60
13	3452.00	11.50	304.40	3447.67	53.83	-1.22	38.07	2.05	1.11	-8.89
14	3515.00	13.50	304.00	3509.17	61.49	-12.50	51.52	3.18	3.17	-0.63
15	3578.00	14.00	304.00	3570.37	69.87	-24.92	66.28	0.79	0.79	0.00
16	3641.00	14.80	303.30	3631.39	78.55	-37.96	81.71	1.30	1.27	-1.11
17	3703.00	15.30	302.30	3691.26	87.27	-51.49	97.51	0.91	0.81	-1.61
18	3765.00	14.60	303.50	3751.16	95.95	-64.92	113.22	1.23	-1.13	1.94
19	3827.00	12.80	301.50	3811.40	103.85	-77.30	127.63	3.00	-2.90	-3.23
20	3890.00	12.00	301.20	3872.93	110.89	-88.85	140.85	1.27	-1.27	-0.48
21	3953.00	11.30	302.30	3934.63	117.58	-99.67	153.29	1.17	-1.11	1.75
22	4017.00	10.80	302.50	3997.44	124.15	-110.03	165.32	0.78	-0.78	0.31
23	4080.00	10.20	303.40	4059.39	130.40	-119.66	176.60	0.99	-0.95	1.43
24	4143.00	8.90	301.50	4121.51	136.01	-128.47	186.85	2.12	-2.06	-3.02
25	4206.00	7.70	301.10	4183.85	140.74	-136.24	195.73	1.91	-1.90	-0.63
26	4270.00	6.00	299.10	4247.39	144.58	-142.84	203.16	2.68	-2.66	-3.13
27	4330.00	4.70	296.20	4307.13	147.19	-147.78	208.54	2.21	-2.17	-4.83
28	4427.00	3.20	287.50	4403.90	149.76	-153.93	214.76	1.66	-1.55	-8.97
29	4490.00	1.90	257.60	4466.84	150.07	-156.63	216.92	2.89	-2.06	-47.46
30	4553.00	1.40	203.90	4529.81	149.14	-157.96	217.24	2.47	-0.79	-85.24

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#	Depth Feet	Inc Degrees	Azimuth Degrees	TVD Feet	North Feet	East Feet	Section Feet	Dogleg /100f	BldRate /100f	TrnRate /100f
31	4647.00	1.30	194.50	4623.79	147.06	-158.69	216.33	0.26	-0.11	-10.00
32	4710.00	1.50	194.60	4686.77	145.57	-159.08	215.58	0.32	0.32	0.16
33	4773.00	0.50	123.60	4749.76	144.62	-159.06	214.91	2.25	-1.59	-112.70
34	4807.00	0.50	98.40	4783.76	144.51	-158.79	214.64	0.64	0.00	-74.12
Bit Projection										
35	4850.00	0.50	70.00	4826.76	144.55	-158.43	214.40	0.57	0.00	-66.05

Closure is 214.4613 Feet on an azimuth of 312.3774

Section View @ Total Depth (4,850' MD)

