

May 16, 1996
6:37 pm

PathTracker 4.0
Survey Calculation Program
PERFORMANCE DRILLING SPECIALISTS

Page 1 of 2

Customer: TEXACO EXPLORATION & PRODUCTION, INC.
WellName: Central Vacuum Unit # 176
Location: Section 36, Township 17S, Range 34E
Lea County, New Mexico
25 Miles NW of Hobbs, New Mexico (Buckeye)

Unit I

Surface
BHL

1988/5 # 355/E
1992/5 # 8/E

Vertical Section Calculated on: 89.1700

Survey Calculation Method: Minimum Curvature

FileName: C:\PATHTRKR\CVU176.SR3

#	Depth Feet	Inc Degrees	Azimuth Degrees	TVD Feet	North Feet	East Feet	Section Feet	Dogleg /100f	BldRate /100f	TrnRate /100f
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Assume Vertical to Bottom of Casing										
1	1525.00	0.00	0.00	1525.00	0.00	0.00	0.00	0.00	0.00	0.00
2	1585.00	0.80	172.60	1585.00	-0.42	0.05	0.05	1.33	1.33	0.00
3	2083.00	1.00	106.40	2082.95	-5.09	4.67	4.60	0.20	0.04	-13.29
4	2572.00	1.50	81.20	2571.83	-5.32	15.09	15.01	0.15	0.10	-5.15
5	2663.00	2.50	99.70	2662.78	-5.47	18.22	18.14	1.29	1.10	20.33
6	2726.00	3.70	89.40	2725.69	-5.68	21.61	21.53	2.09	1.90	-16.35
7	2790.00	5.50	90.40	2789.48	-5.68	26.74	26.66	2.82	2.81	1.56
8	2853.00	7.30	88.40	2852.08	-5.59	33.76	33.68	2.88	2.86	-3.17
9	2948.00	8.60	88.20	2946.17	-5.20	46.90	46.82	1.37	1.37	-0.21
10	3042.00	8.60	89.00	3039.11	-4.85	60.95	60.87	0.13	0.00	0.85
11	3105.00	9.10	88.30	3101.36	-4.62	70.64	70.56	0.81	0.79	-1.11
12	3168.00	10.70	86.70	3163.42	-4.14	81.46	81.39	2.58	2.54	-2.54
13	3230.00	12.50	87.30	3224.15	-3.49	93.91	93.85	2.91	2.90	0.97
14	3293.00	14.30	88.60	3285.43	-2.98	108.50	108.44	2.90	2.86	2.06
15	3388.00	14.90	89.00	3377.37	-2.48	132.44	132.39	0.64	0.63	0.42
16	3450.00	16.60	90.10	3437.04	-2.36	149.26	149.21	2.78	2.74	1.77
17	3513.00	18.00	89.10	3497.18	-2.22	168.00	167.95	2.27	2.22	-1.59
18	3576.00	17.00	89.40	3557.27	-1.97	186.94	186.89	1.59	-1.59	0.48
19	3639.00	15.70	89.70	3617.72	-1.83	204.67	204.63	2.07	-2.06	0.48
20	3702.00	15.80	88.40	3678.35	-1.54	221.77	221.73	0.58	0.16	-2.06
21	3765.00	15.20	87.50	3739.06	-0.94	238.60	238.56	1.03	-0.95	-1.43
22	3923.00	12.60	88.70	3892.42	0.35	276.52	276.50	1.66	-1.65	0.76
23	3986.00	11.70	84.50	3954.01	1.12	289.75	289.74	2.00	-1.43	-6.67
24	4049.00	9.80	87.10	4015.90	2.00	301.47	301.46	3.11	-3.02	4.13
25	4113.00	9.00	89.40	4079.04	2.33	311.91	311.91	1.38	-1.25	3.59
26	4175.00	7.20	87.70	4140.42	2.54	320.64	320.65	2.93	-2.90	-2.74
27	4238.00	7.10	87.10	4202.93	2.89	328.48	328.49	0.20	-0.16	-0.95
28	4301.00	5.70	92.50	4265.54	2.95	335.49	335.50	2.42	-2.22	8.57
29	4364.00	3.90	94.10	4328.32	2.66	340.76	340.76	2.86	-2.86	2.54
30	4428.00	2.00	73.80	4392.23	2.82	344.00	344.00	3.34	-2.97	-31.72

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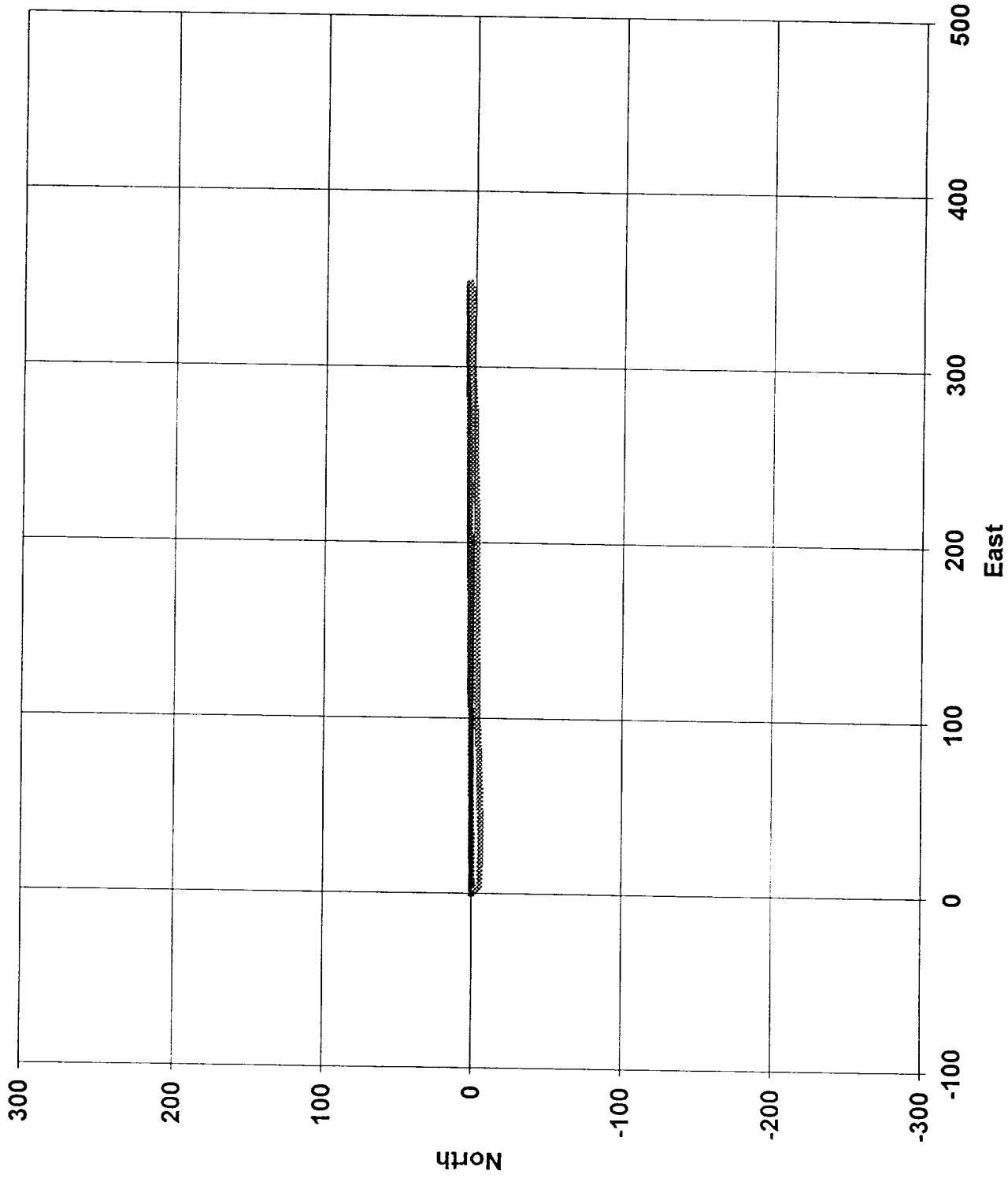
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31	4490.00	0.30	95.70	4454.22	3.11	345.20	345.21	2.78	-2.74	35.32
32	4585.00	0.40	63.00	4549.21	3.23	345.74	345.75	0.23	0.11	-34.42
33	4680.00	0.30	59.10	4644.21	3.51	346.25	346.27	0.11	-0.11	-4.11
34	4775.00	0.60	59.10	4739.21	3.89	346.89	346.91	0.32	0.32	0.00
Bit Projection										
35	4840.00	0.60	59.10	4804.21	4.24	347.48	347.50	0.00	0.00	0.00

Closure is 347.5020 Feet on an azimuth of 89.3006

Plan View at Total Depth (4840' MD)



Section View at Total Depth (4840' MD)

