

Job Number: WTX0400D195	State/Country: New Mexico
Company: Devon Energy Corp.	Declination: 9.6
Lease/Well: Winston Gas Com., #7	Grid:
Location: Eddy County	File name: C:\WINSERVE\WINSTON.SVY
Rig Name: Patterson #5	Date/Time: 09-May-00 / 06:07
RKB:	Curve Name: Work
G.L. or M.S.L.:	

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 115.22
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	Course Length FT	True Vertical Depth	Vertical Section FT	N-S FT	E-W FT	CLOSURE		Dogleg Severity Deg/100	BUILD RATE Deg/100
Distance	Direction	FT	Deg	FT	FT	FT	FT	FT	Deg		
1857.00	1.12	280.33		1856.80	-21.59	5.36	-21.34	22.00	284.10	.00	.00
1885.00	.90	277.80	28.00	1884.80	-22.06	5.44	-21.83	22.49	283.99	.80	-.79
1980.00	1.30	156.90	95.00	1979.79	-21.97	4.55	-22.14	22.61	281.61	2.03	.42
2075.00	2.40	160.60	95.00	2074.74	-19.77	1.68	-21.06	21.13	274.56	1.16	1.16
2170.00	3.20	152.70	95.00	2169.62	-16.27	-2.55	-19.18	19.35	262.42	.93	.84
2264.00	3.60	143.60	94.00	2263.46	-11.59	-7.26	-16.23	17.78	245.90	.71	.43
2359.00	4.80	136.00	95.00	2358.20	-5.25	-12.52	-11.70	17.13	223.06	1.39	1.26
2455.00	5.70	127.50	96.00	2453.80	3.17	-18.31	-5.12	19.01	195.64	1.24	.94
2550.00	7.00	124.20	95.00	2548.21	13.49	-24.44	3.41	24.67	172.06	1.42	1.37
2645.00	8.00	115.40	95.00	2642.40	25.82	-30.53	14.17	33.65	155.10	1.60	1.05
2739.00	9.30	112.20	94.00	2735.33	39.95	-36.20	27.11	45.23	143.17	1.47	1.38
2834.00	10.50	116.80	95.00	2828.92	56.27	-43.00	41.94	60.07	135.72	1.51	1.26
2928.00	11.90	114.70	94.00	2921.13	74.52	-50.92	58.39	77.47	131.09	1.55	1.49
3023.00	13.20	112.20	95.00	3013.85	95.15	-59.11	77.34	97.34	127.39	1.48	1.37
3118.00	14.70	112.20	95.00	3106.05	118.02	-67.76	98.54	119.59	124.51	1.58	1.58
3181.00	14.90	111.30	63.00	3166.96	134.08	-73.72	113.49	135.33	123.01	.48	.32
3276.00	13.80	108.00	95.00	3259.00	157.51	-81.66	135.64	158.33	121.05	1.44	-1.16
3371.00	14.20	108.80	95.00	3351.17	180.33	-88.92	157.45	180.82	119.46	.47	.42
3466.00	14.60	114.30	95.00	3443.19	203.88	-97.60	179.39	204.23	118.55	1.50	.42
3528.00	14.70	116.40	62.00	3503.18	219.56	-104.31	193.56	219.88	118.32	.87	.16