

Job Number: WTX0200d164	State/Country: Eddy County, New Mexico
Company: Devon Energy Corporation	Declination: 10
Lease/Well: Pecos Fed. Gas Com #2	Grid:
Location: Eddy County, New Mexico	File name: C:\WINSERVE\PECOS32L.SVY
Rig Name: Patterson #5	Date/Time: 10-Aug-00 / 10:12
RKB:	Curve Name:
G.L. or M.S.L.:	

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 146.82
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
Gyro Tie in									
3585.00	1.72	212.14	3584.70	3.56	-18.60	-13.16	18.94	280.84	.00
3648.00	2.50	189.70	3647.66	1.40	-19.33	-11.76	19.39	274.16	1.78
3711.00	3.50	183.90	3710.57	-1.87	-19.70	-9.22	19.79	264.58	1.66
3775.00	4.40	180.40	3774.42	-6.27	-19.85	-5.61	20.81	252.46	1.46
3839.00	5.20	178.00	3838.19	-11.63	-19.76	-1.09	22.93	239.53	1.29
3902.00	5.60	167.70	3900.92	-17.48	-19.01	4.23	25.83	227.39	1.66
3966.00	6.30	160.80	3964.57	-23.85	-17.19	10.55	29.40	215.78	1.56
4029.00	6.60	154.60	4027.17	-30.38	-14.50	17.50	33.67	205.51	1.20
4093.00	7.20	148.00	4090.71	-37.11	-10.80	25.15	38.65	196.22	1.55
4157.00	7.90	146.30	4154.15	-44.17	-6.23	33.56	44.61	188.03	1.15
4220.00	8.80	145.70	4216.49	-51.75	-1.11	42.71	51.76	181.23	1.44
4284.00	9.70	147.90	4279.65	-60.36	4.51	52.99	60.53	175.72	1.51
4347.00	10.60	147.00	4341.67	-69.72	10.49	64.09	70.50	171.44	1.45
4411.00	11.50	146.60	4404.48	-79.98	17.21	76.36	81.81	167.86	1.41
4475.00	12.20	144.50	4467.12	-90.81	24.65	89.50	94.10	164.82	1.28
4539.00	13.10	143.70	4529.56	-102.17	32.87	103.49	107.32	162.17	1.43
4602.00	13.80	145.50	4590.83	-114.11	41.35	118.14	121.37	160.08	1.29
4665.00	14.30	146.10	4651.95	-126.76	49.94	133.43	136.25	158.50	.83
4727.00	15.20	146.80	4711.91	-139.92	58.67	149.21	151.72	157.25	1.48
4791.00	15.30	146.00	4773.65	-153.94	67.98	166.05	168.28	156.17	.36
4854.00	16.10	145.90	4834.30	-168.06	77.53	183.09	185.08	155.24	1.27
4918.00	17.10	146.50	4895.63	-183.26	87.70	201.37	203.16	154.43	1.59
4982.00	17.90	146.50	4956.67	-199.31	98.32	220.62	222.24	153.74	1.25
5045.00	18.80	146.20	5016.47	-215.82	109.31	240.45	241.92	153.14	1.44