

Job Number: WTX0600D226
 Company: Concho Resources
 Lease/Well: Springs 2 Federal #1
 Location: Eddy County
 Rig Name: Patterson #144
 RKB:
 G.L. or M.S.L.:

State/Country: New Mexico
 Declination: 9.6
 Grid:
 File name: C:\WINSERVE\CONCHO.SVY
 Date/Time: 14-Aug-00 / 10:39
 Curve Name: Actual

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 154.13
 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	Dogleg Severity Deg/100	BUILD RATE Deg/100	CLOSURE Distance FT	Direction Deg
6614.00	1.34	155.88		6612.90	-73.84	52.29	-61.39	.00	.00	80.64	310.42
6746.00	4.10	168.60	132.00	6744.74	-67.72	46.25	-59.83	2.13	2.09	75.62	307.71
6843.00	6.30	170.30	97.00	6841.33	-59.25	37.61	-58.24	2.27	2.27	69.33	302.85
6939.00	6.60	166.60	96.00	6936.73	-48.81	27.05	-56.08	.53	.31	62.26	295.75
7035.00	7.40	158.40	96.00	7032.01	-37.25	15.93	-52.52	1.33	.83	54.89	286.88
7132.00	8.80	154.50	97.00	7128.04	-23.61	3.43	-47.03	1.55	1.44	47.15	274.17
7228.00	9.70	153.10	96.00	7222.79	-8.18	-10.41	-40.21	.97	.94	41.53	255.48
7325.00	12.20	154.10	97.00	7318.02	10.25	-26.92	-32.03	2.58	2.58	41.84	229.95
7420.00	14.20	154.30	95.00	7410.51	31.94	-46.45	-22.59	2.11	2.11	51.66	205.94
7516.00	16.20	154.70	96.00	7503.14	57.11	-69.17	-11.76	2.09	2.08	70.17	189.65
7645.00	17.80	156.30	129.00	7626.50	94.81	-103.50	3.85	1.29	1.24	103.57	177.87
7743.00	20.10	155.20	98.00	7719.19	126.62	-132.50	16.94	2.37	2.35	133.58	172.72
7839.00	21.60	155.00	96.00	7808.90	160.78	-163.50	31.33	1.56	1.56	166.47	169.15
7936.00	23.10	155.60	97.00	7898.61	197.66	-197.01	46.73	1.56	1.55	202.47	166.66
8031.00	24.60	151.30	95.00	7985.50	236.04	-231.33	63.93	2.42	1.58	240.00	164.55
8162.00	26.60	150.20	131.00	8103.63	292.54	-280.70	91.60	1.57	1.53	295.27	161.93
8259.00	26.10	149.30	97.00	8190.56	335.47	-317.89	113.29	.66	-.52	337.47	160.39
8354.00	25.60	149.60	95.00	8276.05	376.75	-353.56	134.34	.54	-.53	378.23	159.19
8450.00	26.60	150.30	96.00	8362.26	418.87	-390.12	155.49	1.09	1.04	419.96	158.27
8547.00	26.20	149.80	97.00	8449.14	461.89	-427.49	177.02	.47	-.41	462.69	157.51
8644.00	25.50	148.90	97.00	8536.44	504.03	-463.88	198.57	.83	-.72	504.59	156.83