



Job Number: 091117505679
 Company: Concho Resources, Inc.
 Lease/Well: Electra Federal, Well #4
 Location: Eddy County, NM
 Rig Name: Production
 RKB:
 G.L. or M.S.L.:

State/Country: New Mexico/USA
 Declination: 7.83°
 Grid: East To Grid
 File name: F:\SURVEY\2009SU~1\CONCHO~1\ELECTRA4.SVY
 Date/Time: 25-Aug-09 / 15:51
 Curve Name: Surface - 5960' M.D. (Gyroscopic)

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane .00
 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	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
.00	00	00	00	00	00	00	00	.00	.00
200.00	25	266.28	200.00	- 03	- 44	- 03	.44	266.28	.12
400.00	25	40.85	400.00	27	- 59	27	.65	295.04	.23
600.00	25	145.64	600.00	24	- 05	24	.25	347.54	.20
800.00	25	104.42	800.00	- 23	62	- 23	.66	110.14	.09
1000.00	1 00	82.99	999.98	-.12	2.77	-.12	2.77	92.51	.39
1200.00	1 00	81.77	1199.95	34	6.23	34	6.24	86.86	.01
1400.00	75	88.34	1399.93	63	9.27	63	9.29	86.11	.13
1600.00	.25	101.12	1599.92	58	11.00	58	11.02	86.97	.25
1800.00	25	285.91	1799.92	62	11.01	62	11.03	86.78	.25

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
2000.00	1.00	255.69	1999.91	31	8.90	.31	8.90	88.03	.40
2200.00	1 00	257.48	2199.88	-.50	5.50	-.50	5.53	95 22	.02
2400.00	1.00	255.26	2399.85	-1 33	2.11	-1.33	2 49	122 10	.02
2600.00	75	244 96	2599.82	-2.32	-.76	-2 32	2.44	198.13	.15
2800.00	1 25	249 54	2799.79	-3.64	-3.99	-3 64	5.40	227.63	.25
3000 00	1.00	246 32	2999.75	-5 10	-7.63	-5 10	9 18	236 23	.13
3200.00	1.00	236 10	3199.72	-6.78	-10 68	-6 78	12.65	237.60	.09
3400.00	1.00	240.89	3399 69	-8.60	-13 65	-8 60	16 14	237 79	.04
3600 00	50	211.67	3599 67	-10.19	-15 64	-10 19	18 66	236 90	.31
3800 00	25	217.45	3799 67	-11 28	-16.36	-11.28	19 87	235.41	.13
4000 00	50	235.23	3999 67	-12 13	-17 34	-12 13	21.16	235 04	.14
4200 00	25	248.02	4199.66	-12.79	-18 46	-12 79	22.46	235 30	.13
4400.00	25	198 70	4399 66	-13 36	-19.01	-13 36	23 23	234 89	.10
4600.00	75	230 39	4599 65	-14 61	-20 16	-14 61	24.89	234.06	.28
4800.00	75	289 07	4799 64	-15.02	-22 40	-15.02	26 97	236.16	.37
5000.00	1.00	266 76	4999 61	-14.69	-25.38	-14.69	29 32	239 94	.21
5200.00	50	298.44	5199.60	-14.37	-27 89	-14 37	31.38	242 74	.32
5400 00	2 00	293.11	5399.54	-12.59	-31.87	-12 59	34.26	248 45	.75
5600 00	1 75	291.80	5599.44	-10.08	-37.91	-10 08	39.23	255 11	.13
5800 00	2 00	296.48	5799.33	-7 39	-43.87	-7 39	44.49	260 44	.15

Last Survey Depth Recorded

5960.00	2.25	289.85	5959.22	-5.08	-49.33	-5.08	49.59	264.12	22
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