

CHEVRON U.S.A.
 North Lusk 29 Federal No.1, slot #1
 , LEA COUNTY, NEW MEXICO

SURVEY LISTING
 Your ref : Gyro
 Last revised : 27-Sep-1999

Page 4

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect
7500.00	0.92	212.33	7498.24	76.83 N	0.40	77.41
7600.00	0.99	210.46	7598.23	75.40 N	0.08	75.94
7700.00	0.90	247.84	7698.21	74.36 N	0.61	74.84
7800.00	1.27	266.99	7798.20	74.01 N	0.52	74.40
7900.00	1.47	256.63	7898.17	73.65 N	0.32	73.92
8000.00	1.50	274.20	7998.14	73.45 N	0.45	73.59
8029.00	1.75	277.70	8027.12	73.54 N	0.93	73.63
8527.00	1.75	256.00	8524.90	72.72 N	0.13	72.05
9026.00	1.25	225.00	9023.73	67.02 N	0.19	65.79
9504.00	1.75	199.00	9501.57	56.44 N	0.17	54.90
9996.00	2.25	186.00	9993.27	39.73 N	0.14	38.04
10481.00	3.25	189.00	10477.71	16.68 N	0.21	14.86
10579.00	3.00	178.00	10575.56	11.37 N	0.66	9.54
10756.00	4.25	172.00	10752.21	0.25 N	0.74	-1.51
10875.00	4.75	172.00	10870.84	9.00 S	0.42	-10.68
10917.00	4.75	177.00	10912.70	12.45 S	0.99	-14.11
11109.00	6.00	182.00	11103.85	30.42 S	0.69	-32.06
11229.00	6.50	183.00	11223.14	43.47 S	0.43	-45.12
11322.00	7.00	184.00	11315.49	54.38 S	0.55	-56.05
11448.00	7.00	184.00	11440.55	69.70 S	0.00	-71.40
1544.00	6.50	182.00	11535.89	80.97 S	0.58	-82.68
1669.00	5.75	191.00	11660.17	94.19 S	0.97	-95.96
1860.00	4.25	194.00	11850.44	110.45 S	0.80	-112.38

All data is in feet unless otherwise stated.
 Coordinates from slot #1 and TVD from rotary table.
 Bottom hole distance is 117.64 on azimuth 200.14 degrees from wellhead.
 Vertical section is from wellhead on azimuth 2.94 degrees.
 Calculation uses the minimum curvature method.
 Presented by Baker Hughes INTEQ