



INTEQ

SUR: H-7-18s-32e, 1650/N & 330/E
BHL: B-7/18s/32e, 863/N & 2523/E
API # 30-025-35535

2105 market Street Midland, TX 79703 Ph. (432)694-9517 Fax. (432)694-5648

Survey Report

Heyco Energy

Bola 7 Federal #3

Lea County, NM



Prepared By Oscar Gomez
Monday, July 17, 2006

Heyco Energy
Bola 7 Fed #3, slot #1
UNKNOWN, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 1
Your ref : MWD
Last revised : 17-Jul-2006

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
0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00	0.00
100.00	0.51	337.07	100.00	0.41 N	0.17 W	0.51	0.31
200.00	0.48	344.12	199.99	1.22 N	0.46 W	0.07	0.88
300.00	0.50	343.20	299.99	2.04 N	0.70 W	0.02	1.40
400.00	0.47	332.27	399.99	2.82 N	1.02 W	0.10	1.98
500.00	0.55	316.61	499.98	3.54 N	1.54 W	0.16	2.72
600.00	0.51	314.24	599.98	4.20 N	2.19 W	0.05	3.57
700.00	0.67	314.72	699.97	4.92 N	2.92 W	0.16	4.51
800.00	0.64	319.85	799.97	5.76 N	3.70 W	0.07	5.54
900.00	0.70	317.15	899.96	6.63 N	4.47 W	0.07	6.58
1000.00	0.80	319.55	999.95	7.61 N	5.34 W	0.10	7.75
1100.00	0.76	325.19	1099.94	8.68 N	6.17 W	0.09	8.92
1200.00	0.79	331.08	1199.93	9.83 N	6.89 W	0.09	10.00
1300.00	0.86	335.02	1299.92	11.12 N	7.54 W	0.09	11.07
1400.00	0.84	338.10	1399.91	12.48 N	8.13 W	0.05	12.12
1500.00	0.75	343.28	1499.90	13.78 N	8.59 W	0.12	13.02
1600.00	0.77	339.82	1599.89	15.04 N	9.01 W	0.05	13.87
1700.00	0.62	336.63	1699.89	16.17 N	9.45 W	0.15	14.70
1800.00	0.47	334.95	1799.88	17.04 N	9.84 W	0.15	15.38
1900.00	0.50	338.76	1899.88	17.82 N	10.17 W	0.04	15.97
2000.00	0.56	333.87	1999.87	18.66 N	10.55 W	0.08	16.63
2100.00	0.46	348.73	2099.87	19.49 N	10.84 W	0.17	17.20
2200.00	0.74	38.53	2199.87	20.39 N	10.52 W	0.57	17.23
2300.00	1.05	45.70	2299.85	21.54 N	9.46 W	0.33	16.66
2400.00	1.01	42.85	2399.84	22.82 N	8.20 W	0.06	15.96
2500.00	1.05	44.28	2499.82	24.13 N	6.97 W	0.05	15.28
2600.00	0.99	36.75	2599.80	25.47 N	5.81 W	0.15	14.70
2700.00	0.90	42.44	2699.79	26.75 N	4.76 W	0.13	14.19
2800.00	0.98	44.76	2799.78	27.93 N	3.63 W	0.09	13.57
2900.00	0.83	33.73	2899.77	29.14 N	2.63 W	0.23	13.07
3000.00	0.73	17.35	2999.76	30.35 N	2.03 W	0.24	12.96
3100.00	0.79	14.28	3099.75	31.63 N	1.67 W	0.07	13.09
3200.00	0.88	357.23	3199.74	33.06 N	1.54 W	0.26	13.49
3300.00	1.02	353.65	3299.72	34.71 N	1.68 W	0.15	14.22
3400.00	1.04	359.75	3399.71	36.51 N	1.78 W	0.11	14.97
3500.00	1.21	352.52	3499.69	38.46 N	1.92 W	0.22	15.81
3600.00	1.28	358.09	3599.66	40.62 N	2.09 W	0.14	16.77
3700.00	1.30	352.20	3699.64	42.86 N	2.29 W	0.13	17.76
3800.00	1.31	356.37	3799.61	45.13 N	2.51 W	0.10	18.80
3900.00	1.32	352.34	3899.59	47.41 N	2.74 W	0.09	19.84
4000.00	1.17	348.76	3999.56	49.55 N	3.09 W	0.17	20.95
4100.00	1.27	351.21	4099.54	51.65 N	3.46 W	0.11	22.06
4200.00	1.18	348.95	4199.52	53.76 N	3.83 W	0.10	23.17
4300.00	1.26	350.27	4299.50	55.85 N	4.21 W	0.08	24.29
4400.00	1.28	352.86	4399.47	58.04 N	4.53 W	0.06	25.39
4500.00	1.26	347.57	4499.45	60.22 N	4.91 W	0.12	26.54
4600.00	1.30	349.31	4599.42	62.41 N	5.36 W	0.06	27.75
4700.00	1.32	349.10	4699.39	64.66 N	5.78 W	0.02	28.97
4800.00	1.32	352.15	4799.37	66.93 N	6.16 W	0.07	30.15
4900.00	1.30	352.88	4899.34	69.20 N	6.46 W	0.03	31.25

All data is in feet unless otherwise stated.
Coordinates from structure and TVD from rotary table.
Bottom hole distance is 2269.94 on azimuth 289.80 degrees from wellhead.
Vertical section is from S 0.00 W 0.00 on azimuth 291.39 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

Heyco Energy
Bola 7 Fed #3, slot #1
UNKNOWN, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 2
Your ref : MWD
Last revised : 17-Jul-2006

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
5000.00	1.17	354.54	4999.32	71.34 N	6.69 W	0.13	32.25
5100.00	1.12	353.92	5099.30	73.33 N	6.90 W	0.05	33.16
5200.00	1.14	357.56	5199.28	75.29 N	7.04 W	0.07	34.02
5300.00	1.16	0.36	5299.26	77.30 N	7.08 W	0.06	34.78
5400.00	1.45	21.54	5399.23	79.49 N	6.61 W	0.56	35.14
5500.00	1.61	23.26	5499.20	81.96 N	5.59 W	0.17	35.09
5600.00	1.63	26.97	5599.16	84.51 N	4.39 W	0.11	34.91
5700.00	1.64	25.44	5699.12	87.07 N	3.13 W	0.04	34.67
5800.00	1.71	26.48	5799.07	89.70 N	1.85 W	0.08	34.44
5900.00	1.58	25.25	5899.03	92.28 N	0.59 W	0.13	34.21
6000.00	1.61	21.30	5998.99	94.84 N	0.50 E	0.11	34.12
6100.00	1.70	23.01	6098.95	97.51 N	1.59 E	0.10	34.08
6200.00	1.71	21.03	6198.91	100.27 N	2.71 E	0.06	34.05
6300.00	1.81	20.90	6298.86	103.14 N	3.81 E	0.10	34.07
6400.00	1.88	19.49	6398.81	106.16 N	4.92 E	0.08	34.14
6500.00	2.08	16.85	6498.75	109.44 N	5.99 E	0.22	34.34
6600.00	2.28	16.73	6598.68	113.09 N	7.09 E	0.20	34.64
6700.00	2.34	16.28	6698.60	116.95 N	8.24 E	0.06	34.99
6800.00	2.24	12.71	6798.52	120.82 N	9.24 E	0.17	35.46
6900.00	2.16	6.47	6898.44	124.60 N	9.88 E	0.25	36.24
7000.00	2.35	3.62	6998.37	128.51 N	10.22 E	0.22	37.35
7100.00	2.34	1.96	7098.28	132.60 N	10.42 E	0.07	38.66
7200.00	2.22	358.90	7198.20	136.58 N	10.45 E	0.17	40.08
7300.00	2.40	1.06	7298.12	140.61 N	10.46 E	0.20	41.55
7400.00	2.43	359.32	7398.03	144.82 N	10.47 E	0.08	43.07
7500.00	2.52	0.21	7497.94	149.14 N	10.45 E	0.10	44.66
7600.00	2.62	0.28	7597.84	153.62 N	10.47 E	0.10	46.28
7700.00	2.74	0.65	7697.73	158.30 N	10.51 E	0.12	47.95
7800.00	2.87	355.82	7797.61	163.19 N	10.35 E	0.27	49.87
7900.00	3.03	354.54	7897.48	168.31 N	9.92 E	0.17	52.15
8000.00	2.73	351.59	7997.35	173.30 N	9.32 E	0.33	54.53
8100.00	2.80	349.71	8097.23	178.06 N	8.54 E	0.11	56.99
8200.00	3.07	346.84	8197.10	183.07 N	7.49 E	0.31	59.79
8240.00	3.23	343.34	8237.04	185.19 N	6.92 E	0.63	61.10
8281.00	5.40	276.30	8277.95	186.51 N	4.67 E	12.43	63.67
8313.00	8.50	248.50	8309.72	185.81 N	0.97 E	14.03	66.86
8344.00	10.40	235.90	8340.30	183.40 N	3.48 W	9.03	70.12
8374.00	13.40	227.80	8369.65	179.55 N	8.29 W	11.42	73.21
8405.00	17.40	218.30	8399.54	173.49 N	13.83 W	15.21	76.15
8437.00	22.20	222.00	8429.64	165.24 N	20.85 W	15.50	79.68
8468.00	27.20	222.50	8457.79	155.66 N	29.56 W	16.14	84.29
8500.00	30.50	224.60	8485.82	144.48 N	40.20 W	10.79	90.13
8532.00	32.00	230.60	8513.18	133.31 N	52.46 W	10.79	97.47
8563.00	34.00	230.90	8539.18	122.63 N	65.54 W	6.47	105.75
8594.00	34.60	233.80	8564.79	111.97 N	79.37 W	5.62	114.73
8626.00	37.90	239.00	8590.60	101.53 N	95.13 W	14.09	125.61
8657.00	40.60	242.90	8614.60	92.03 N	112.28 W	11.80	138.11
8689.00	45.80	244.70	8637.92	82.38 N	131.93 W	16.70	152.89
8721.00	50.40	246.10	8659.29	72.48 N	153.58 W	14.74	169.44
8752.00	54.80	247.80	8678.12	62.85 N	176.24 W	14.85	187.02

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Coordinates from structure and TVD from rotary table.
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Vertical section is from S 0.00 W 0.00 on azimuth 291.39 degrees.
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Heyco Energy
Bola 7 Fed #3, slot #1
UNKNOWN, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 3
Your ref : MWD
Last revised : 17-Jul-2006

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
8784.00	56.80	252.70	8696.11	53.92 N	201.14 W	14.12	206.95
8815.00	59.80	258.40	8712.41	47.37 N	226.67 W	18.39	228.33
8843.00	62.90	262.60	8725.83	43.32 N	250.90 W	17.20	249.41
8875.00	66.20	266.80	8739.59	40.67 N	279.66 W	15.71	275.23
8907.00	68.60	270.70	8751.89	40.04 N	309.18 W	13.52	302.49
8938.00	71.50	275.90	8762.47	41.72 N	338.26 W	18.33	330.18
8970.00	74.60	280.50	8771.80	46.10 N	368.54 W	16.82	359.97
9002.00	76.70	284.40	8779.74	52.79 N	398.80 W	13.51	390.58
9033.00	78.40	287.50	8786.42	61.10 N	427.90 W	11.20	420.71
9065.00	78.00	287.90	8792.97	70.63 N	457.74 W	1.75	451.97
9096.00	80.40	287.90	8798.77	79.99 N	486.72 W	7.74	482.36
9127.00	82.00	290.00	8803.52	89.94 N	515.69 W	8.45	512.97
9159.00	83.30	292.10	8807.61	101.33 N	545.31 W	7.67	544.70
9192.00	85.50	297.40	8810.83	115.08 N	575.12 W	17.32	577.48
9223.00	89.60	300.60	8812.16	130.09 N	602.20 W	16.77	608.16
9255.00	89.50	300.60	8812.41	146.38 N	629.74 W	0.31	639.75
9286.00	89.50	300.90	8812.68	162.23 N	656.38 W	0.97	670.34
9318.00	89.70	300.90	8812.90	178.66 N	683.84 W	0.62	701.90
9350.00	90.40	300.90	8812.88	195.10 N	711.30 W	2.19	733.46
9381.00	91.00	300.20	8812.50	210.85 N	737.99 W	2.97	764.06
9413.00	91.40	299.10	8811.83	226.68 N	765.79 W	3.66	795.72
9444.00	91.60	298.80	8811.02	241.68 N	792.91 W	1.16	826.44
9476.00	90.90	299.10	8810.32	257.17 N	820.90 W	2.38	858.15
9507.00	91.30	298.80	8809.72	272.17 N	848.03 W	1.61	888.88
9539.00	92.00	297.70	8808.80	287.31 N	876.20 W	4.07	920.63
9570.00	92.00	297.40	8807.72	301.64 N	903.67 W	0.97	951.44
9602.00	91.60	297.00	8806.71	316.26 N	932.12 W	1.77	983.26
9633.00	91.70	296.00	8805.82	330.08 N	959.85 W	3.24	1014.12
9665.00	91.80	294.90	8804.84	343.83 N	988.73 W	3.45	1046.02
9692.00	92.10	294.60	8803.93	355.12 N	1013.23 W	1.57	1072.96
9728.00	92.10	294.60	8802.61	370.10 N	1045.95 W	0.00	1108.88
9792.00	92.30	294.60	8800.15	396.72 N	1104.09 W	0.31	1172.73
9854.00	91.80	293.20	8797.93	421.83 N	1160.74 W	2.40	1234.63
9917.00	92.20	292.80	8795.73	446.43 N	1218.70 W	0.90	1297.57
9980.00	92.00	291.80	8793.42	470.32 N	1276.94 W	1.62	1360.52
10043.00	92.30	291.10	8791.06	493.34 N	1335.54 W	1.21	1423.47
10106.00	91.60	290.40	8788.92	515.64 N	1394.42 W	1.57	1486.43
10170.00	91.50	289.70	8787.19	537.58 N	1454.52 W	1.10	1550.39
10233.00	91.00	288.90	8785.81	558.40 N	1513.96 W	1.50	1613.33
10327.00	90.40	288.90	8784.66	588.84 N	1602.89 W	0.64	1707.24
10390.00	90.80	288.90	8784.00	609.25 N	1662.49 W	0.63	1770.17
10453.00	91.40	288.60	8782.79	629.49 N	1722.13 W	1.06	1833.10
10516.00	92.70	290.00	8780.54	650.30 N	1781.55 W	3.03	1896.01
10580.00	92.10	288.60	8777.86	671.44 N	1841.90 W	2.38	1959.91
10643.00	92.50	288.10	8775.33	691.25 N	1901.65 W	1.02	2022.77
10706.00	93.70	288.90	8771.92	711.21 N	1961.30 W	2.29	2085.60
10770.00	93.70	288.60	8767.79	731.74 N	2021.78 W	0.47	2149.39
10833.00	92.40	287.90	8764.44	751.44 N	2081.52 W	2.34	2212.21
10890.00	91.60	287.90	8762.45	768.95 N	2135.73 W	1.40	2269.07

Projected to TD.

10950.00 91.6 287.9 8760.78 787.38N 2192.89W 0.0 2328.92

All data is in feet unless otherwise stated.

Coordinates from structure and TVD from rotary table.

Bottom hole distance is 2269.94 on azimuth 289.80 degrees from wellhead.

Vertical section is from S 0.00 W 0.00 on azimuth 291.39 degrees.

Calculation uses the minimum curvature method.

Presented by Baker Hughes INTEQ



INTEQ

Heyco Energy

Structure : Bola 7 Fed #3

Slot : slot #1

Field : UNKNOWN

Location : LEA COUNTY, NEW MEXICO



81-Ann-2004 (Survey 2004)
Magnetic North is 2.54 degrees East of True North
2004 Survey is 2.54 degrees East of True North
To convert azimuth from True to Magnetic add 2.54 deg
To convert azimuth from Magnetic to True subtract 2.54 deg

