

SUR; B-09-18s-32e, 585/N & 2055/E
BHL: E-09-18s-32e, 1657/N & 4481/E
API #30-025-29015

Heyco Energy
Young Deep Unit #14

slot #1
UNKNOWN
LEA COUNTY, NEW MEXICO

S U R V E Y L I S T I N G

by
Baker Hughes INTEQ

Your ref : MWD
Our ref : svy2870
License :

Date printed : 25-Oct-2005
Date created : 27-Sep-2005
Last revised : 25-Oct-2005

Field is centred on n32 55 0.000,w103 15 0
Structure is centred on n32 46 4.400,w104 46 10.6

Slot location is n32 46 4.400,w104 46 10.600
Slot Grid coordinates are N 643345.270, E 365894.886
Slot local coordinates are 0.00 N 0.00 E

Projection type: mercator - New Mexico East (3001), Spheroid: Clarke - 1866

Reference North is Grid North

Heyco Energy
Young Deep Unit #14, slot #1
UNKNOWN, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 1
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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	G R I D C O O R D S Easting Northing	
0.00	0.00	0.00	0.00	0.00N	0.00E	0.00	0.00	365894.89	643345.27
100.00	0.31	51.38	100.00	0.17N	0.21E	0.31	-0.26	365895.10	643345.44
200.00	0.53	21.23	200.00	0.77N	0.59E	0.30	-0.83	365895.48	643346.04
300.00	0.65	24.67	299.99	1.72N	0.99E	0.13	-1.55	365895.88	643346.99
400.00	0.94	36.14	399.98	2.89N	1.71E	0.33	-2.65	365896.60	643348.16
500.00	1.44	27.41	499.96	4.67N	2.78E	0.53	-4.29	365897.66	643349.94
600.00	1.44	25.15	599.93	6.92N	3.89E	0.06	-6.15	365898.78	643352.19
700.00	1.08	23.23	699.90	8.93N	4.80E	0.36	-7.72	365899.68	643354.20
800.00	0.88	19.30	799.89	10.52N	5.42E	0.21	-8.88	365900.31	643355.79
900.00	0.69	356.23	899.88	11.84N	5.64E	0.36	-9.56	365900.52	643357.11
1000.00	0.64	337.72	999.87	12.96N	5.38E	0.22	-9.74	365900.27	643358.23
1100.00	0.62	335.15	1099.87	13.97N	4.94E	0.03	-9.70	365899.83	643359.24
1200.00	0.47	0.33	1199.86	14.87N	4.72E	0.28	-9.82	365899.61	643360.14
1300.00	0.59	355.66	1299.86	15.79N	4.68E	0.13	-10.12	365899.57	643361.06
1400.00	0.50	21.74	1399.85	16.71N	4.81E	0.26	-10.57	365899.69	643361.98
1500.00	0.45	1.62	1499.85	17.51N	4.98E	0.17	-11.02	365899.86	643362.78
1600.00	0.52	352.04	1599.85	18.35N	4.93E	0.11	-11.28	365899.81	643363.62
1700.00	0.23	11.14	1699.85	19.00N	4.90E	0.31	-11.49	365899.79	643364.27
1800.00	0.25	13.71	1799.84	19.41N	4.99E	0.02	-11.72	365899.88	643364.68
1900.00	0.27	22.93	1899.84	19.84N	5.14E	0.05	-12.01	365900.02	643365.11
2000.00	0.51	23.96	1999.84	20.46N	5.41E	0.24	-12.50	365900.29	643365.73
2100.00	0.55	29.22	2099.84	21.29N	5.82E	0.06	-13.18	365900.71	643366.56
2200.00	0.82	6.75	2199.83	22.42N	6.14E	0.38	-13.89	365901.03	643367.69
2300.00	0.94	9.96	2299.82	23.93N	6.37E	0.13	-14.66	365901.25	643369.20
2400.00	1.30	21.59	2399.80	25.80N	6.93E	0.42	-15.86	365901.81	643371.07
2500.00	1.51	32.69	2499.77	27.96N	8.06E	0.34	-17.70	365902.94	643373.23
2600.00	1.47	31.15	2599.74	30.17N	9.43E	0.06	-19.78	365904.32	643375.44
2700.00	1.09	27.34	2699.71	32.11N	10.53E	0.39	-21.51	365905.42	643377.38
2800.00	1.13	20.78	2799.69	33.88N	11.32E	0.13	-22.89	365906.20	643379.15
2900.00	1.04	20.10	2899.67	35.65N	11.98E	0.09	-24.15	365906.87	643380.92
3000.00	1.15	11.25	2999.66	37.49N	12.49E	0.20	-25.29	365907.37	643382.76
3100.00	1.04	6.86	3099.64	39.37N	12.79E	0.14	-26.27	365907.68	643384.64
3200.00	0.94	355.74	3199.62	41.09N	12.84E	0.22	-26.94	365907.73	643386.36
3300.00	0.93	357.92	3299.61	42.72N	12.75E	0.04	-27.45	365907.64	643387.99
3400.00	0.82	353.97	3399.60	44.24N	12.64E	0.13	-27.90	365907.53	643389.51
3500.00	0.87	0.36	3499.59	45.71N	12.57E	0.11	-28.37	365907.46	643390.98
3600.00	0.85	4.57	3599.57	47.21N	12.64E	0.07	-28.98	365907.52	643392.48
3700.00	0.84	22.36	3699.56	48.63N	12.98E	0.26	-29.81	365907.86	643393.90
3800.00	0.89	20.95	3799.55	50.03N	13.53E	0.05	-30.84	365908.42	643395.30
3900.00	1.11	28.69	3899.54	51.61N	14.28E	0.26	-32.11	365909.16	643396.88
4000.00	1.02	30.26	3999.52	53.23N	15.19E	0.09	-33.55	365910.07	643398.50
4100.00	1.05	23.53	4099.50	54.83N	16.00E	0.13	-34.89	365910.89	643400.10
4200.00	1.17	27.83	4199.49	56.58N	16.85E	0.15	-36.31	365911.73	643401.85
4300.00	1.12	23.78	4299.47	58.37N	17.72E	0.10	-37.78	365912.60	643403.64
4400.00	1.20	27.04	4399.44	60.20N	18.59E	0.10	-39.25	365913.47	643405.47
4500.00	1.13	27.42	4499.42	62.01N	19.52E	0.07	-40.78	365914.40	643407.28
4600.00	1.15	26.68	4599.40	63.78N	20.42E	0.02	-42.27	365915.31	643409.05
4700.00	1.19	20.82	4699.38	65.65N	21.24E	0.13	-43.71	365916.13	643410.92
4800.00	1.29	23.62	4799.36	67.65N	22.06E	0.12	-45.21	365916.95	643412.92
4900.00	1.33	28.22	4899.33	69.70N	23.06E	0.11	-46.88	365917.95	643414.97

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from structure and TVD from rotary table.
Bottom hole distance is 2652.17 on azimuth 246.17 degrees from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 248.62 degrees.
Grid is mercator - New Mexico East (3001).
Grid coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

Heyco Energy
Young Deep Unit #14, slot #1
UNKNOWN, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 2
Your ref : MWD
Last revised : 25-Oct-2005

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	G R I D Easting	C O O R D S Northing
5000.00	1.23	24.99	4999.31	71.70N	24.06E	0.12	-48.55	365918.95	643416.97
5100.00	1.22	29.35	5099.29	73.60N	25.04E	0.09	-50.15	365919.92	643418.87
5200.00	1.05	30.91	5199.27	75.31N	26.03E	0.17	-51.70	365920.92	643420.58
5300.00	0.92	35.19	5299.25	76.76N	26.96E	0.15	-53.09	365921.85	643422.03
5400.00	0.92	42.69	5399.24	78.00N	27.97E	0.12	-54.48	365922.86	643423.27
5500.00	0.97	42.76	5499.23	79.21N	29.09E	0.05	-55.97	365923.98	643424.48
5600.00	0.94	41.67	5599.21	80.45N	30.21E	0.04	-57.46	365925.10	643425.72
5700.00	1.04	34.68	5699.20	81.81N	31.27E	0.16	-58.94	365926.16	643427.08
5800.00	1.10	33.34	5799.18	83.36N	32.32E	0.07	-60.48	365927.20	643428.63
5900.00	1.27	27.21	5899.16	85.14N	33.35E	0.21	-62.09	365928.24	643430.41
6000.00	1.30	27.51	5999.13	87.14N	34.38E	0.03	-63.78	365929.27	643432.41
6100.00	1.39	26.77	6099.10	89.22N	35.45E	0.09	-65.54	365930.34	643434.49
6200.00	1.45	28.04	6199.07	91.42N	36.59E	0.07	-67.40	365931.48	643436.69
6300.00	1.44	22.62	6299.04	93.70N	37.67E	0.14	-69.24	365932.56	643438.97
6400.00	1.84	13.50	6399.00	96.42N	38.53E	0.48	-71.03	365933.41	643441.69
6500.00	2.25	10.84	6498.94	99.91N	39.27E	0.42	-72.99	365934.16	643445.18
6600.00	2.34	10.12	6598.86	103.85N	40.00E	0.09	-75.11	365934.89	643449.12
6700.00	2.31	7.64	6698.78	107.86N	40.63E	0.10	-77.15	365935.51	643453.13
6800.00	2.19	5.84	6798.70	111.75N	41.09E	0.14	-79.00	365935.97	643457.02
6900.00	2.25	1.63	6898.62	115.62N	41.34E	0.17	-80.64	365936.23	643460.89
7000.00	2.54	357.71	6998.54	119.79N	41.31E	0.33	-82.13	365936.19	643465.06
7100.00	2.55	357.76	7098.44	124.23N	41.13E	0.01	-83.59	365936.02	643469.50
7200.00	2.32	5.13	7198.35	128.47N	41.23E	0.39	-85.22	365936.11	643473.74
7300.00	2.33	18.98	7298.27	132.41N	42.07E	0.56	-87.44	365936.95	643477.68
7400.00	2.43	17.43	7398.18	136.35N	43.36E	0.12	-90.09	365938.25	643481.62
7500.00	2.31	12.30	7498.09	140.34N	44.43E	0.24	-92.53	365939.31	643485.61
7600.00	2.17	12.01	7598.02	144.16N	45.25E	0.14	-94.69	365940.14	643489.43
7700.00	2.19	9.83	7697.94	147.90N	45.97E	0.09	-96.72	365940.86	643493.17
7800.00	2.07	5.82	7797.88	151.58N	46.48E	0.19	-98.54	365941.37	643496.85
7900.00	2.00	4.99	7897.81	155.11N	46.82E	0.08	-100.14	365941.70	643500.38
8000.00	2.04	0.97	7997.75	158.63N	47.00E	0.15	-101.59	365941.88	643503.90
8100.00	2.07	3.34	8097.69	162.21N	47.13E	0.09	-103.02	365942.02	643507.48
8200.00	1.62	1.21	8197.63	165.43N	47.27E	0.46	-104.32	365942.15	643510.70
8282.00	7.80	244.70	8279.39	164.21N	42.25E	10.54	-99.21	365937.14	643509.48
8314.00	12.00	254.90	8310.91	162.41N	37.07E	14.17	-93.73	365931.96	643507.68
8344.00	16.90	257.00	8339.95	160.62N	29.81E	16.42	-86.31	365924.70	643505.89
8376.00	20.30	253.80	8370.28	158.02N	19.94E	11.09	-76.18	365914.83	643503.29
8408.00	22.90	249.30	8400.03	154.27N	8.79E	9.63	-64.42	365903.67	643499.54
8439.00	24.80	246.50	8428.38	149.55N	2.82W	7.13	-51.89	365892.07	643494.82
8470.00	27.90	246.50	8456.16	144.06N	15.44W	10.00	-38.14	365879.45	643489.33
8502.00	30.10	246.80	8484.15	137.91N	29.68W	6.89	-22.64	365865.21	643483.18
8530.00	30.40	247.20	8508.33	132.40N	42.66W	1.29	-8.54	365852.22	643477.67
8562.00	32.30	246.10	8535.66	125.80N	57.94W	6.20	8.10	365836.94	643471.07
8593.00	33.70	244.00	8561.66	118.67N	73.25W	5.83	24.94	365821.64	643463.94
8625.00	34.20	244.40	8588.20	110.90N	89.34W	1.71	42.76	365805.55	643456.17
8657.00	34.80	245.40	8614.58	103.21N	105.75W	2.58	60.85	365789.13	643448.48
8688.00	36.80	245.40	8639.72	95.66N	122.24W	6.45	78.95	365772.65	643440.93
8719.00	39.90	244.00	8664.03	87.44N	139.62W	10.38	98.14	365755.26	643432.71
8751.00	41.10	243.70	8688.36	78.28N	158.28W	3.80	118.85	365736.61	643423.55
8783.00	43.10	243.70	8712.10	68.77N	177.51W	6.25	140.22	365717.38	643414.04

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Coordinates from structure and TVD from rotary table.
Bottom hole distance is 2652.17 on azimuth 246.17 degrees from wellhead.
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SURVEY LISTING Page 3
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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	G R I D Easting	C O O R D S Northing
8814.00	46.00	244.00	8734.19	59.19N	197.03W	9.38	161.89	365697.86	643404.46
8845.00	49.60	241.50	8755.01	48.66N	217.43W	13.06	184.73	365677.46	643393.93
8877.00	52.80	241.20	8775.06	36.71N	239.31W	10.03	209.46	365655.57	643381.98
8909.00	53.30	242.20	8794.30	24.58N	261.83W	2.95	234.85	365633.06	643369.85
8940.00	55.20	244.70	8812.41	13.35N	284.33W	8.97	259.90	365610.55	643358.62
8971.00	57.90	245.10	8829.50	2.38N	307.75W	8.78	285.71	365587.13	643347.65
9003.00	62.30	247.50	8845.45	8.76S	333.15W	15.21	313.42	365561.73	643336.51
9034.00	64.70	247.50	8859.28	19.37S	358.78W	7.74	341.15	365536.10	643325.90
9066.00	69.00	248.20	8871.85	30.46S	386.03W	13.59	370.57	365508.86	643314.81
9097.00	73.20	248.90	8881.89	41.18S	413.32W	13.72	399.89	365481.57	643304.09
9129.00	76.20	249.30	8890.34	52.19S	442.15W	9.45	430.75	365452.73	643293.08
9160.00	80.10	249.30	8896.70	62.91S	470.53W	12.58	461.08	365424.36	643282.36
9191.00	84.30	247.20	8900.91	74.29S	499.04W	15.12	491.79	365395.84	643270.98
9222.00	87.10	246.80	8903.23	86.37S	527.50W	9.12	522.68	365367.39	643258.90
9254.00	88.90	247.90	8904.35	98.69S	557.01W	6.59	554.65	365337.88	643246.58
9286.00	89.40	247.50	8904.82	110.83S	586.61W	2.00	586.65	365308.27	643234.44
9315.00	89.60	247.20	8905.08	121.99S	613.37W	1.24	615.64	365281.51	643223.28
9351.00	90.60	246.10	8905.01	136.26S	646.42W	4.13	651.61	365248.46	643209.01
9382.00	90.50	245.80	8904.72	148.90S	674.73W	1.02	682.58	365220.15	643196.37
9414.00	90.00	245.40	8904.58	162.12S	703.87W	2.00	714.53	365191.01	643183.15
9445.00	90.20	245.10	8904.52	175.09S	732.03W	1.16	745.48	365162.86	643170.18
9477.00	89.70	245.40	8904.55	188.49S	761.09W	1.82	777.43	365133.80	643156.78
9508.00	89.80	245.40	8904.69	201.40S	789.27W	0.32	808.38	365105.61	643143.87
9540.00	90.50	245.40	8904.60	214.72S	818.37W	2.19	840.33	365076.52	643130.55
9602.00	90.60	245.10	8904.01	240.67S	874.67W	0.51	902.22	365020.22	643104.60
9634.90	90.70	244.70	8903.63	254.63S	904.46W	1.25	935.04	364990.42	643090.64
9661.00	90.80	244.70	8903.29	265.78S	928.06W	0.38	961.08	364966.83	643079.49
9698.00	90.40	244.70	8902.90	281.59S	961.51W	1.08	997.99	364933.38	643063.68
9755.00	88.30	244.70	8903.55	305.95S	1013.03W	3.68	1054.85	364881.85	643039.32
9817.00	88.30	243.70	8905.39	332.92S	1068.83W	1.61	1116.64	364826.06	643012.35
9880.00	89.50	244.70	8906.60	360.33S	1125.53W	2.48	1179.44	364769.35	642984.94
9943.00	90.30	244.70	8906.71	387.26S	1182.49W	1.27	1242.29	364712.40	642958.01
10005.00	90.00	242.20	8906.55	414.97S	1237.95W	4.06	1304.03	364656.94	642930.30
10068.00	89.90	242.90	8906.60	444.01S	1293.85W	1.12	1366.68	364601.03	642901.26
10131.00	90.40	244.70	8906.44	471.82S	1350.38W	2.97	1429.45	364544.51	642873.45
10194.00	90.80	245.10	8905.78	498.54S	1407.43W	0.90	1492.32	364487.46	642846.73
10257.00	90.60	242.90	8905.01	526.16S	1464.04W	3.51	1555.10	364430.84	642819.11
10320.00	91.10	242.60	8904.07	555.00S	1520.04W	0.93	1617.77	364374.84	642790.27
10382.00	91.60	242.90	8902.61	583.38S	1575.15W	0.94	1679.42	364319.74	642761.89
10444.00	92.10	244.00	8900.61	611.08S	1630.58W	1.95	1741.14	364264.31	642734.19
10507.00	92.50	242.20	8898.08	639.56S	1686.72W	2.92	1803.79	364208.17	642705.71
10570.00	92.80	244.00	8895.17	668.03S	1742.84W	2.89	1866.43	364152.05	642677.24
10633.00	91.90	240.80	8892.59	697.19S	1798.61W	5.27	1929.00	364096.27	642648.08
10696.00	92.00	240.80	8890.44	727.91S	1853.57W	0.16	1991.38	364041.31	642617.36
10759.00	92.50	240.50	8887.97	758.76S	1908.44W	0.93	2053.72	363986.44	642586.51
10822.00	92.70	242.20	8885.11	788.94S	1963.67W	2.71	2116.15	363931.21	642556.33
10886.00	92.70	241.50	8882.10	819.10S	2020.04W	1.09	2179.63	363874.85	642526.17
10949.00	93.10	239.40	8878.91	850.12S	2074.77W	3.39	2241.91	363820.11	642495.15
11043.00	93.30	238.70	8873.66	898.39S	2155.26W	0.77	2334.45	363739.62	642446.88
11137.00	93.10	237.30	8868.41	948.13S	2234.85W	1.50	2426.70	363660.03	642397.14

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from structure and TVD from rotary table.
Bottom hole distance is 2652.17 on azimuth 246.17 degrees from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 248.62 degrees.
Grid is mercator - New Mexico East (3001).
Grid coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

Heyco Energy
 Young Deep Unit #14, slot #1
 UNKNOWN, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 4
 Your ref : MWD
 Last revised : 25-Oct-2005

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	G R I D Easting	C O O R D S Northing
11232.00	93.30	237.70	8863.11	999.09S	2314.85W	0.47	2519.77	363580.04	642346.18
11305.00	93.60	236.60	8858.72	1038.62S	2376.06W	1.56	2591.18	363518.82	642306.65
11365.00	93.60	236.60	8854.95	1071.58S	2426.06W	0.00	2649.75	363468.83	642273.69

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
 Coordinates from structure and TVD from rotary table.
 Bottom hole distance is 2652.17 on azimuth 246.17 degrees from wellhead.
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Heyco Energy									
Structure : Young Deep Unit #14					Slot : slot #1				
Field : UNKNOWN					Location : LEA COUNTY, NEW MEXICO				
----- WELL PROFILE DATA -----									
Point	MD	Inc.	GR	TD	North	East	W. Sect	Mag/100	
Top of	8100.00	2.07	5.34	8007.00	162.21	47.13	-104.31	0.00	
Top of	8200.00	2.07	5.34	8147.62	165.82	47.34	-105.83	0.00	
End of Build/True	9312.10	90.22	245.20	8907.85	-106.63	-589.27	595.61	5.20	
T.O. & Turned TD	11365.83	90.22	245.20	8909.01	-965.00	-2405.69	2645.87	0.00	

Created by: [illegible]
 Date: 06/14/2005
 File: [illegible]
 Coordinates are in feet reference structure.
 True North of Depth are reference structure.
 --- Baker Hughes INTEQ ---

