

SUR: N-2-13s-38e, 76/S & 2568/W
BHL: C-11-13s-38e, 397/N & 2143/W
API #30-025-37056

CHESAPEAKE OPERATING, INC.
Young 11 Federal #1

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 : Sidetrack 2
Our ref : svy2795
License :

Date printed : 11-Jul-2005
Date created : 17-Jun-2005
Last revised : 11-Jul-2005

Field is centred on n32 55 0.000,w103 15 0
Structure is centred on 887216.000,807560.000,999.00000,N

Slot location is n33 12 48.874,w103 4 2.321
Slot Grid coordinates are N 807560.000, E 887216.000
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



CHESAPEAKE OPERATING, INC.
 Young 11 Federal #1, slot #1
 UNKNOWN, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 1
 Your ref : Sidetrack 2
 Last revised : 11-Jul-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
4343.00	0.80	122.00	4342.00	6.71N	15.72E	0.00	-15.48	887231.72	807566.71
4375.00	0.30	158.00	4374.00	6.51N	15.94E	1.83	-15.48	887231.94	807566.51
4407.00	0.60	222.00	4406.00	6.31N	15.86E	1.69	-15.28	887231.86	807566.31
4439.00	0.70	85.20	4438.00	6.20N	15.94E	3.78	-15.25	887231.94	807566.20
4470.00	0.50	102.80	4469.00	6.19N	16.26E	0.87	-15.46	887232.26	807566.19
4501.00	0.40	128.10	4499.99	6.09N	16.48E	0.71	-15.53	887232.48	807566.09
4540.00	1.60	223.10	4538.99	5.61N	16.22E	4.31	-14.99	887232.22	807565.61
4574.00	3.40	226.70	4572.96	4.57N	15.16E	5.31	-13.51	887231.16	807564.57
4604.00	4.20	225.30	4602.89	3.19N	13.73E	2.68	-11.53	887229.73	807563.19
4667.00	4.90	227.50	4665.69	0.25S	10.11E	1.14	-6.55	887226.11	807559.75
4698.00	4.80	227.70	4696.58	2.02S	8.17E	0.33	-3.94	887224.17	807557.98
4761.00	5.60	229.50	4759.32	5.79S	3.88E	1.30	1.72	887219.88	807554.21
4825.00	6.90	220.40	4822.94	10.74S	0.98W	2.55	8.66	887215.02	807549.26
4884.00	7.60	228.30	4881.47	16.04S	6.19W	2.06	16.08	887209.81	807543.96
4947.00	8.30	230.70	4943.86	21.69S	12.82W	1.23	24.71	887203.18	807538.31
5010.00	8.50	224.20	5006.19	27.91S	19.59W	1.54	33.86	887196.41	807532.09
5080.00	8.00	224.10	5075.46	35.12S	26.58W	0.71	43.90	887189.42	807524.88
5144.00	7.80	222.60	5138.86	41.51S	32.62W	0.45	52.69	887183.38	807518.49
5208.00	8.10	221.80	5202.24	48.07S	38.57W	0.50	61.54	887177.43	807511.93
5271.00	8.70	220.40	5264.57	55.01S	44.61W	1.01	70.74	887171.39	807504.99
5334.80	8.20	220.60	5327.67	62.13S	50.70W	0.79	80.11	887165.30	807497.87
5396.00	8.40	220.30	5388.23	68.86S	56.43W	0.33	88.95	887159.57	807491.14
5459.00	8.50	222.50	5450.55	75.80S	62.56W	0.54	98.20	887153.44	807484.20
5553.00	8.30	220.70	5543.54	86.07S	71.67W	0.35	111.93	887144.33	807473.93
5616.00	7.90	219.50	5605.91	92.85S	77.39W	0.69	120.80	887138.61	807467.15
5685.00	8.20	222.20	5674.23	100.16S	83.72W	0.70	130.46	887132.28	807459.84
5748.00	7.80	222.30	5736.62	106.65S	89.61W	0.64	139.23	887126.39	807453.35
5811.00	7.80	223.10	5799.03	112.93S	95.41W	0.17	147.78	887120.59	807447.07
5873.70	7.80	221.90	5861.15	119.21S	101.16W	0.26	156.29	887114.84	807440.79
5937.00	7.70	223.00	5923.88	125.50S	106.92W	0.28	164.82	887109.08	807434.50
6000.00	7.60	224.80	5986.32	131.55S	112.73W	0.41	173.20	887103.27	807428.45
6063.00	7.70	225.70	6048.76	137.45S	118.69W	0.25	181.57	887097.31	807422.55
6125.00	8.30	227.90	6110.15	143.35S	124.98W	1.09	190.17	887091.02	807416.65
6188.00	8.30	223.00	6172.49	149.73S	131.46W	1.12	199.24	887084.54	807410.27
6251.00	7.90	218.40	6234.86	156.44S	137.25W	1.21	208.10	887078.75	807403.56
6314.00	7.50	220.50	6297.30	162.96S	142.61W	0.78	216.54	887073.39	807397.04
6378.00	7.80	224.30	6360.73	169.25S	148.35W	0.92	225.05	887067.65	807390.75
6441.00	9.00	225.30	6423.05	175.77S	154.84W	1.92	234.24	887061.16	807384.23
6504.00	9.40	227.50	6485.24	182.72S	162.14W	0.85	244.28	887053.86	807377.28
6566.00	8.60	225.40	6546.48	189.39S	169.17W	1.39	253.94	887046.83	807370.61
6630.00	8.60	222.30	6609.76	196.29S	175.80W	0.72	263.51	887040.20	807363.71
6693.00	8.10	221.70	6672.09	203.09S	181.92W	0.81	272.65	887034.08	807356.91
6756.00	8.40	221.70	6734.44	209.84S	187.93W	0.48	281.69	887028.07	807350.16
6787.00	8.70	220.70	6765.09	213.31S	190.97W	1.08	286.30	887025.03	807346.69
6850.00	8.10	221.20	6827.42	220.26S	197.00W	0.96	295.50	887019.00	807339.74
6914.00	8.30	224.80	6890.76	226.93S	203.22W	0.86	304.63	887012.78	807333.07
6977.00	8.80	224.30	6953.06	233.60S	209.79W	0.80	313.98	887006.21	807326.40
7040.00	8.90	225.10	7015.31	240.49S	216.61W	0.25	323.66	886999.39	807319.51
7103.00	8.60	221.00	7077.58	247.49S	223.15W	1.10	333.24	886992.85	807312.51
7167.00	8.30	219.70	7140.88	254.65S	229.24W	0.56	342.64	886986.76	807305.35

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
 Coordinates from structure and TVD from rotary table.
 Bottom hole distance is 634.48 on azimuth 221.94 degrees from wellhead.
 Vertical section is from N 0.00 W 0.00 on azimuth 221.82 degrees.
 Grid is mercator - New Mexico East (3001).
 Grid coordinates in FEET and computed using the Clarke - 1866 spheroid
 Presented by Baker Hughes INTEQ

CHESAPEAKE OPERATING, INC.
 Young 11 Federal #1, slot #1
 UNKNOWN, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 2
 Your ref : Sidetrack 2
 Last revised : 11-Jul-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
7230.00	7.90	219.50	7203.26	261.49S	234.90W	0.64	351.51	886981.10	807298.51
7293.00	7.70	220.70	7265.67	268.03S	240.41W	0.41	360.05	886975.59	807291.97
7357.00	7.60	220.20	7329.10	274.52S	245.94W	0.19	368.57	886970.06	807285.48
7420.00	7.90	225.40	7391.53	280.74S	251.71W	1.21	377.06	886964.29	807279.26
7480.00	7.90	225.90	7450.96	286.50S	257.61W	0.11	385.29	886958.39	807273.50
7543.00	8.30	221.00	7513.33	292.95S	263.70W	1.27	394.15	886952.30	807267.05
7606.00	8.30	219.60	7575.67	299.88S	269.58W	0.32	403.24	886946.42	807260.12
7700.00	7.60	216.70	7668.77	310.10S	277.62W	0.86	416.21	886938.38	807249.90
7763.00	8.20	214.90	7731.17	317.12S	282.68W	1.03	424.82	886933.32	807242.88
7827.00	8.90	219.20	7794.46	324.70S	288.42W	1.48	434.30	886927.58	807235.30
7889.00	8.70	220.90	7855.73	331.96S	294.52W	0.53	443.78	886921.48	807228.04
7952.00	8.30	220.30	7918.04	339.03S	300.58W	0.65	453.09	886915.42	807220.97
8016.00	8.60	219.90	7981.34	346.23S	306.64W	0.48	462.49	886909.36	807213.77
8079.00	8.30	219.30	8043.66	353.36S	312.54W	0.50	471.74	886903.46	807206.64
8140.00	8.40	220.70	8104.01	360.14S	318.24W	0.37	480.59	886897.76	807199.86
8236.00	8.20	223.40	8199.01	370.43S	327.51W	0.46	494.45	886888.49	807189.57
8298.00	7.70	226.80	8260.41	376.49S	333.58W	1.11	503.00	886882.42	807183.51
8368.00	7.30	226.90	8329.81	382.74S	340.24W	0.57	512.11	886875.76	807177.26
8429.00	7.40	225.60	8390.31	388.14S	345.88W	0.32	519.89	886870.12	807171.86
8495.00	7.60	223.10	8455.75	394.30S	351.90W	0.58	528.49	886864.10	807165.70
8557.00	7.20	223.50	8517.23	400.11S	357.38W	0.65	536.47	886858.62	807159.89
8621.00	6.90	223.80	8580.75	405.79S	362.80W	0.47	544.32	886853.20	807154.21
8672.00	6.50	222.30	8631.40	410.14S	366.86W	0.86	550.27	886849.14	807149.86
8731.00	6.30	219.80	8690.03	415.09S	371.18W	0.58	556.85	886844.82	807144.91
8804.00	6.20	219.50	8762.60	421.21S	376.25W	0.14	564.79	886839.75	807138.79
8877.00	6.20	221.20	8835.17	427.22S	381.35W	0.25	572.67	886834.65	807132.78
8941.00	6.00	221.60	8898.81	432.32S	385.85W	0.32	579.47	886830.15	807127.68
9000.00	5.80	222.30	8957.49	436.83S	389.91W	0.36	585.53	886826.09	807123.17
9065.00	5.70	224.00	9022.17	441.59S	394.36W	0.30	592.04	886821.64	807118.41
9128.00	5.40	219.80	9084.87	446.11S	398.43W	0.80	598.13	886817.57	807113.89
9193.00	5.20	218.70	9149.59	450.76S	402.23W	0.35	604.13	886813.77	807109.24
9253.00	4.80	219.80	9209.37	454.81S	405.54W	0.69	609.35	886810.46	807105.19
9315.00	4.40	220.50	9271.17	458.61S	408.74W	0.65	614.32	886807.26	807101.39
9382.00	3.90	224.40	9337.99	462.20S	412.00W	0.86	619.17	886804.00	807097.80
9462.00	3.00	231.80	9417.84	465.43S	415.55W	1.25	623.95	886800.45	807094.57
9534.00	2.50	234.20	9489.76	467.52S	418.31W	0.71	627.34	886797.69	807092.48
9620.00	1.60	232.80	9575.71	469.34S	420.78W	1.05	630.35	886795.22	807090.66
9683.00	1.50	231.40	9638.68	470.39S	422.13W	0.17	632.03	886793.87	807089.61
9740.00	1.50	231.50	9695.66	471.32S	423.30W	0.00	633.50	886792.70	807088.68
9778.00	1.50	232.10	9733.65	471.93S	424.08W	0.04	634.48	886791.92	807088.07

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 Bottom hole distance is 634.48 on azimuth 221.94 degrees from wellhead.
 Vertical section is from N 0.00 W 0.00 on azimuth 221.82 degrees.
 Grid is mercator - New Mexico East (3001).
 Grid coordinates in FEET and computed using the Clarke - 1866 spheroid
 Presented by Baker Hughes INTEQ

CHESAPEAKE OPERATING, INC.

Created by adrynm
Date plotted : 11-Jul-2005
Plot Reference is Sidetrack 2 Plan 3.
Coordinates are in feet reference structure.
True Vertical Depths are reference structure.
--- Baker Hughes INTEQ ---

Structure : Young 11 Federal #1

Slot : slot #1

Field : UNKNOWN

Location : LEA COUNTY, NEW MEXICO

WELL PROFILE DATA

Point	MD	Inc	Dir	TVD	North	East	V. Sect	Deg/100
Tie on	4501.00	0.40	128.10	4499.99	6.09	16.48	-15.53	0.00
KOP	4510.00	0.40	128.10	4508.99	6.05	16.53	-15.53	0.00
End of Build/Turn	4831.76	8.00	222.81	4829.71	-11.10	2.17	6.82	2.50
Target Target no.1	8740.10	8.00	222.81	8700.00	-410.20	-367.53	550.77	0.00
T.D. & Target TD	9844.02	0.71	207.15	9800.00	-472.72	-422.93	634.30	0.66

