

CHESAPEAKE OPERATING, INC.

Structure : Boyce 4-15

Slot : slot #1

Field : UNKNOWN

Location : LEA COUNTY, NEW MEXICO

Created by adryanm

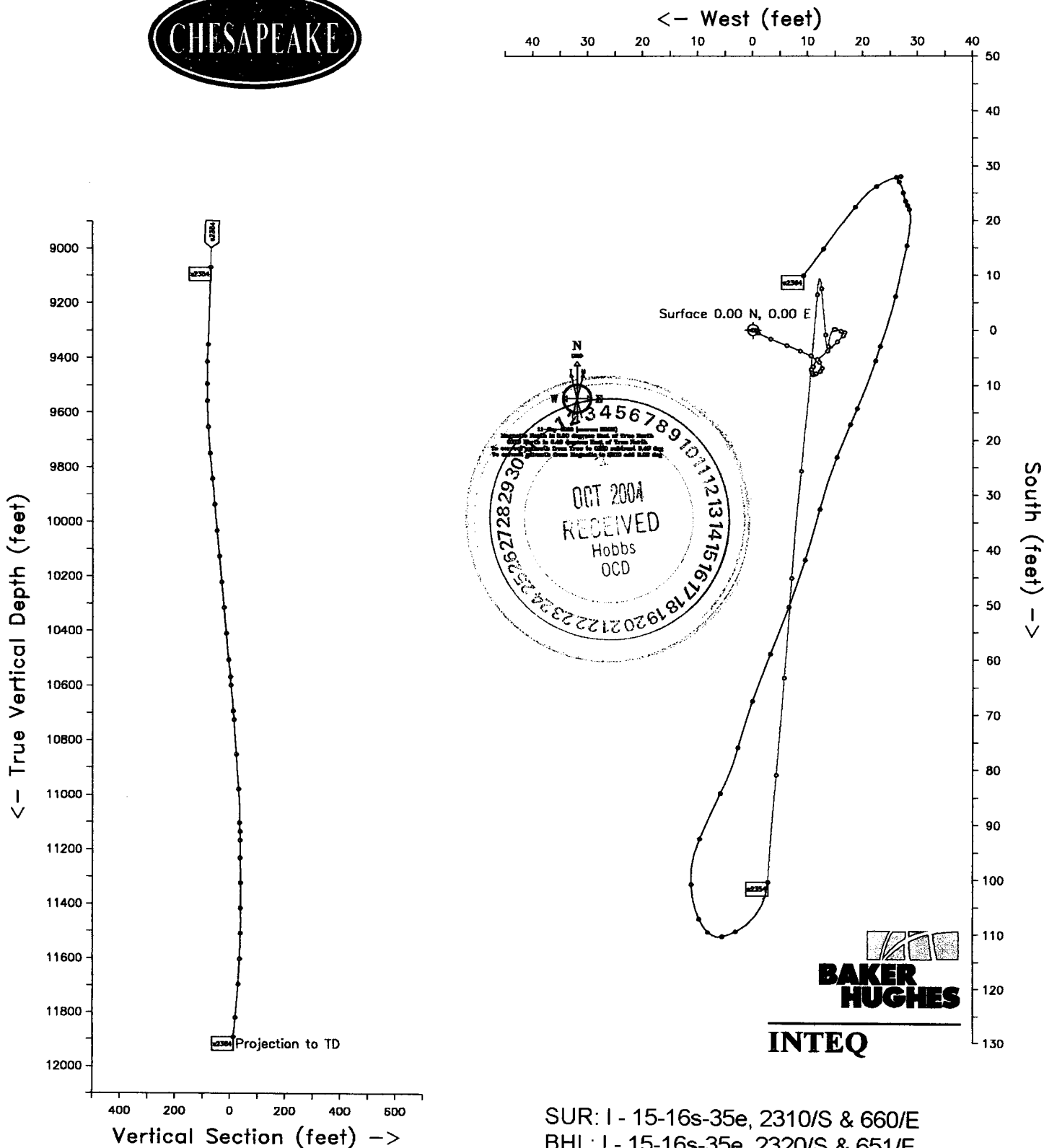
Date plotted : 30-Sep-2004

Plot Reference is MWD.

Coordinates are in feet reference slot #1.

True Vertical Depths are reference rotary table.

--- Baker Hughes INTEQ ---



Azimuth 45.00 with reference 0.00 S, 0.00 W from slot #1

SUR: I - 15-16s-35e, 2310/S & 660/E
BHL: I - 15-16s-35e, 2320/S & 651/E
API #30-025-36354

CHESAPEAKE OPERATING, INC.
Boyce 4-15

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 : svy2364
License :

Date printed : 30-Sep-2004
Date created : 19-Sep-2003
Last revised : 26-Sep-2003

Field is centred on n32 30 0.000,w103 30 0
Structure is centred on n32 55 17.040,w103 26 18.96

Slot location is n32 55 17.040,w103 26 18.960
Slot Grid coordinates are N 700082.322, E 774557.812
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.
Boyce 4-15, slot #1
UNKNOWN, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 1
Your ref : MWD
Last revised : 26-Sep-2003

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
0.00	0.00	0.00	0.00	0.00N	0.00E	0.00	0.00	774557.81	700082.32
200.00	0.60	117.61	200.00	0.49S	0.93E	0.30	0.32	774558.75	700081.83
400.00	0.89	114.42	399.98	1.62S	3.28E	0.14	1.18	774561.09	700080.70
600.00	0.91	109.39	599.95	2.79S	6.19E	0.04	2.41	774564.00	700079.54
800.00	0.60	115.55	799.94	3.76S	8.63E	0.16	3.44	774566.44	700078.56
1000.00	0.62	115.08	999.93	4.67S	10.55E	0.01	4.16	774568.37	700077.65
1200.00	0.50	142.28	1199.92	5.82S	12.07E	0.15	4.42	774569.88	700076.50
1400.00	0.21	180.61	1399.91	6.88S	12.60E	0.18	4.04	774570.41	700075.44
1600.00	0.26	235.73	1599.91	7.51S	12.22E	0.11	3.33	774570.03	700074.81
1800.00	0.22	249.26	1799.91	7.91S	11.48E	0.03	2.52	774569.29	700074.42
2000.00	0.07	260.14	1999.91	8.07S	10.98E	0.08	2.06	774568.79	700074.26
2200.00	0.06	328.99	2199.91	8.01S	10.80E	0.04	1.98	774568.62	700074.32
2400.00	0.17	2.00	2399.91	7.63S	10.76E	0.06	2.22	774568.58	700074.69
2600.00	0.41	13.91	2599.91	6.64S	10.95E	0.12	3.05	774568.76	700075.68
2800.00	0.52	46.47	2799.90	5.32S	11.78E	0.14	4.57	774569.59	700077.00
3000.00	0.84	50.62	2999.88	3.76S	13.57E	0.16	6.94	774571.38	700078.56
3200.00	0.54	43.95	3199.87	2.15S	15.36E	0.16	9.35	774573.18	700080.18
3400.00	0.35	41.11	3399.86	1.01S	16.42E	0.10	10.90	774574.23	700081.31
3600.00	0.09	300.52	3599.86	0.47S	16.69E	0.19	11.46	774574.50	700081.85
3800.00	0.33	294.62	3799.86	0.16S	16.03E	0.12	11.23	774573.85	700082.16
4000.00	0.26	278.72	3999.86	0.15N	15.06E	0.05	10.76	774572.87	700082.47
4074.00	0.19	244.09	4073.86	0.12N	14.78E	0.20	10.54	774572.59	700082.44
4684.00	0.50	183.00	4683.85	2.98S	13.72E	0.07	7.59	774571.53	700079.34
5165.00	1.00	355.00	5164.83	0.90S	13.25E	0.31	8.73	774571.06	700081.42
5650.00	1.00	355.00	5649.76	7.53N	12.51E	0.00	14.17	774570.32	700089.86
6148.00	1.25	184.50	6147.72	6.45N	11.70E	0.45	12.84	774569.52	700088.77
6630.00	2.00	185.00	6629.52	7.17S	10.56E	0.16	2.39	774568.37	700075.15
7130.00	2.25	186.00	7129.18	25.62S	8.77E	0.05	-11.92	774566.58	700056.70
7630.00	2.25	184.00	7628.79	45.18S	7.06E	0.02	-26.95	774564.87	700037.15
8120.00	2.00	184.50	8118.46	63.30S	5.72E	0.05	-40.71	774563.53	700019.03
8600.00	2.25	185.00	8598.13	81.03S	4.24E	0.05	-54.30	774562.05	700001.29
9073.00	2.50	184.00	9070.72	100.57S	2.71E	0.05	-69.20	774560.52	699981.75
9355.00	2.50	241.40	9352.49	109.65S	3.12W	0.85	-79.74	774554.69	699972.67
9418.00	2.30	258.70	9415.44	110.56S	5.56W	1.19	-82.11	774552.25	699971.76
9498.00	2.20	315.50	9495.39	109.78S	8.21W	2.68	-83.43	774549.60	699972.54
9561.00	3.10	334.60	9558.32	107.38S	9.79W	1.98	-82.85	774548.02	699974.94
9656.00	4.80	355.40	9653.09	101.09S	11.21W	2.31	-79.41	774546.60	699981.23
9752.00	5.60	22.80	9748.71	92.77S	9.72W	2.69	-72.47	774548.09	699989.55
9847.00	5.50	26.60	9843.27	84.43S	5.89W	0.40	-63.86	774551.93	699997.89
9942.00	5.30	15.00	9937.85	76.12S	2.71W	1.17	-55.74	774555.10	700006.20
10038.00	5.40	19.30	10033.43	67.57S	0.07W	0.43	-47.83	774557.74	700014.75
10133.00	5.60	22.40	10127.99	59.07S	3.17E	0.38	-39.52	774560.99	700023.25
10227.00	5.70	20.00	10221.54	50.44S	6.52E	0.27	-31.06	774564.33	700031.88
10321.00	5.40	17.90	10315.10	41.85S	9.47E	0.39	-22.89	774567.29	700040.48
10416.00	6.20	15.00	10409.61	32.64S	12.18E	0.90	-14.47	774569.99	700049.69
10512.00	5.80	21.70	10505.09	23.12S	15.31E	0.84	-5.52	774573.12	700059.20
10575.00	5.90	22.40	10567.76	17.17S	17.72E	0.19	0.39	774575.53	700065.15
10606.00	6.00	24.50	10598.59	14.22S	19.00E	0.77	3.38	774576.81	700068.10
10701.00	5.20	17.20	10693.14	5.59S	22.33E	1.13	11.84	774580.14	700076.73
10733.00	4.70	19.60	10725.02	2.97S	23.20E	1.69	14.30	774581.01	700079.35

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 13.49 on azimuth 43.00 degrees from wellhead.
Vertical section is from S 0.00 W 0.00 on azimuth 45.00 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.
 Boyce 4-15, slot #1
 UNKNOWN, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 2
 Your ref : MWD
 Last revised : 26-Sep-2003

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
10860.00	3.87	13.50	10851.66	6.10N	25.95E	0.74	22.66	774583.76	700088.42
10987.00	4.70	11.88	10978.31	15.36N	28.02E	0.66	30.67	774585.83	700097.68
11112.00	1.58	339.90	11103.11	21.99N	28.48E	2.77	35.69	774586.29	700104.31
11144.00	1.50	339.00	11135.10	22.79N	28.18E	0.26	36.04	774585.99	700105.12
11176.00	1.40	331.40	11167.09	23.53N	27.84E	0.68	36.32	774585.65	700105.85
11239.00	1.50	354.70	11230.07	25.02N	27.40E	0.94	37.07	774585.21	700107.35
11332.00	1.30	323.00	11323.04	27.08N	26.65E	0.85	37.99	774584.46	700109.40
11424.00	1.20	81.49	11415.03	28.06N	26.97E	2.34	38.91	774584.79	700110.38
11517.00	2.20	259.00	11508.01	27.86N	26.19E	3.66	38.21	774584.00	700110.18
11611.00	2.80	236.10	11601.93	26.23N	22.51E	1.23	34.47	774580.32	700108.56
11704.00	4.00	218.60	11694.76	22.43N	18.60E	1.69	29.01	774576.41	700104.75
11829.00	4.80	216.10	11819.39	14.80N	12.80E	0.66	19.51	774570.61	700097.12
11902.00	4.80	216.10	11892.14	9.86N	9.20E	0.00	13.48	774567.01	700092.19

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
 Coordinates from slot #1 and TVD from rotary table.
 Bottom hole distance is 13.49 on azimuth 43.00 degrees from wellhead.
 Vertical section is from S 0.00 W 0.00 on azimuth 45.00 degrees.
 Grid is mercator - New Mexico East (3001).
 Grid coordinates in FEET and computed using the Clarke - 1866 spheroid
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				<u>Comments in wellpath</u>
MD	TVD	Rectangular Coords.		<u>Comment</u>
11902.00	11892.14	9.86N	9.20E	Projection to TD

NO PROPOSAL