



RECEIVED

OCT 12 2004

MAILROOM

October 8, 2004

Chesapeake Operating, Inc.
P.O. Box 18496
Oklahoma City, OK 73154-8496

Attention: Survey Regulatory Dept.

Re: Chesapeake Operating, Inc.
William 14 Federal #1
Lea County, New Mexico
Nabors Drilling 311

Dear Sir or Madam:

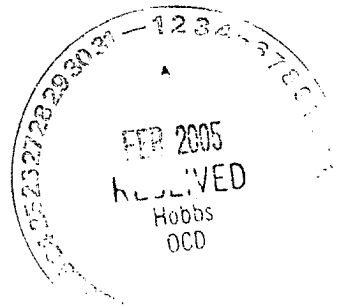
Please find attached (2) copies of MWD Survey Report for well referenced above for your records. If MWD Services is to file survey with any agency, please forward a scaled land plat and copy of API drilling permit.

Regards,


Clyde J. Cormier
President

CJC:cb

Enclosure





MWD SURVEY REPORT

MWD Services, Inc.

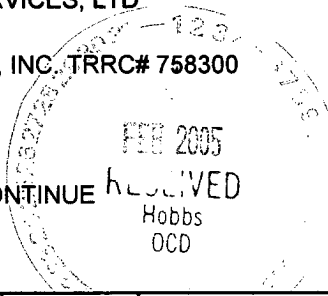
Report Date : SEPTEMBER 01, 2004
 Job Number : 04108
 Operator : CHESAPEAKE OPERATING, INC.
 Lease / Well : WILLIAM 14 FEDERAL #1
 Location : LEA COUNTY, NEW MEXICO
 Field :
 Contractor / Rig : NABORS DRILLING 311
 Directional Company : BLACK VIPER ENERGY SERVICES, LTD
 MWD Field Rep. : GARY HENDRIX
 Tie In Survey Reference : SCIENTIFIC DRILLING INT'L, INC. TRRC# 758300
 Calculation Method : MINIMUM CURVATURE

Target +N / -S = 0.0'
 Target +E / -W = 0.0'
 Target TVD = 13900.0'
 Magnetic Declination +E / -W = 8.57°
 Grid Convergence +E / -W = 0.52°
 Total Correction +E / -W = 8.05°
 North Reference = Grid
 RKB Height = 22.00'
 Ground Level Elevation = 3964'
 Vertical Section Azimuth = 0.00°

Comments :

SURVEY #0 = TIE IN SURVEY

SURVEY #107 = FINAL SURVEY, BORE HOLE TO CONTINUE



Srv. No.	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (deg/100')
							+N / -S (ft)	+E / -W (ft)	Distance (ft)	Azimuth (deg)	
0	6393.00'	5.77°	14.72°		6387.64'	150.14'	150.14'	59.99'	161.68'	21.78°	
1	6416.00'	6.20°	14.70°	23'	6410.51'	152.46'	152.46'	60.60'	164.06'	21.68°	1.87°
2	6431.00'	6.20°	13.40°	15'	6425.43'	154.03'	154.03'	60.99'	165.67'	21.60°	0.94°
3	6462.00'	5.70°	13.10°	31'	6456.26'	157.16'	157.16'	61.73'	168.85'	21.44°	1.62°
4	6494.00'	4.70°	16.80°	32'	6488.13'	159.96'	159.96'	62.47'	171.73'	21.33°	3.29°
5	6525.00'	3.60°	17.50°	31'	6519.05'	162.11'	162.11'	63.13'	173.96'	21.28°	3.55°
6	6557.00'	2.40°	19.40°	32'	6551.00'	163.70'	163.70'	63.65'	175.64'	21.25°	3.76°
7	6588.00'	1.40°	18.70°	31'	6581.98'	164.67'	164.67'	63.99'	176.66'	21.24°	3.23°
8	6620.00'	0.90°	7.50°	32'	6613.98'	165.29'	165.29'	64.15'	177.30'	21.21°	1.71°
9	6652.00'	0.40°	341.30°	32'	6645.98'	165.64'	165.64'	64.14'	177.63'	21.17°	1.78°
10	6683.00'	0.20°	238.40°	31'	6676.98'	165.72'	165.72'	64.06'	177.67'	21.14°	1.57°
11	6715.00'	1.20°	212.40°	32'	6708.97'	165.40'	165.40'	63.84'	177.29'	21.10°	3.20°
12	6746.00'	1.60°	207.00°	31'	6739.96'	164.74'	164.74'	63.47'	176.55'	21.07°	1.36°
13	6777.00'	2.40°	205.20°	31'	6770.94'	163.77'	163.77'	62.99'	175.47'	21.04°	2.59°
14	6810.00'	2.40°	200.70°	33'	6803.92'	162.50'	162.50'	62.46'	174.09'	21.02°	0.57°
15	6841.00'	2.40°	203.80°	31'	6834.89'	161.30'	161.30'	61.96'	172.79'	21.01°	0.42°
16	6872.00'	2.40°	202.90°	31'	6865.86'	160.11'	160.11'	61.45'	171.49'	21.00°	0.12°
17	6904.00'	2.10°	201.30°	32'	6897.84'	158.94'	158.94'	60.98'	170.24'	20.99°	0.96°
18	6935.00'	2.10°	203.10°	31'	6928.82'	157.89'	157.89'	60.55'	169.10'	20.98°	0.21°
19	6967.00'	2.10°	196.50°	32'	6960.79'	156.79'	156.79'	60.15'	167.93'	20.99°	0.76°
20	6998.00'	2.00°	195.30°	31'	6991.77'	155.72'	155.72'	59.85'	166.83'	21.02°	0.35°
21	7029.00'	2.00°	196.30°	31'	7022.76'	154.68'	154.68'	59.55'	165.75'	21.06°	0.11°
22	7060.00'	1.90°	201.10°	31'	7053.74'	153.68'	153.68'	59.21'	164.70'	21.07°	0.62°
23	7091.00'	2.10°	191.80°	31'	7084.72'	152.65'	152.65'	58.91'	163.62'	21.10°	1.23°
24	7123.00'	2.70°	193.20°	32'	7116.69'	151.34'	151.34'	58.62'	162.30'	21.17°	1.88°
25	7154.00'	2.80°	195.80°	31'	7147.65'	149.90'	149.90'	58.25'	160.82'	21.24°	0.52°
26	7185.00'	2.80°	196.30°	31'	7178.62'	148.45'	148.45'	57.83'	159.31'	21.28°	0.08°
27	7219.00'	2.90°	195.50°	34'	7212.58'	146.82'	146.82'	57.37'	157.63'	21.34°	0.32°
28	7251.00'	3.30°	197.50°	32'	7244.53'	145.16'	145.16'	56.87'	155.91'	21.39°	1.29°

Srv. No.	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (deg/100')
							+N / -S (ft)	+E / -W (ft)	Distance (ft)	Azimuth (deg)	
29	7282.00'	4.30°	199.60°	31'	7275.46'	143.22'	143.22'	56.22'	153.85'	21.43°	3.26°
30	7314.00'	5.20°	202.60°	32'	7307.35'	140.75'	140.75'	55.26'	151.20'	21.43°	2.92°
31	7346.00'	5.30°	201.80°	32'	7339.22'	138.04'	138.04'	54.15'	148.28'	21.42°	0.39°
32	7378.00'	5.00°	198.90°	32'	7371.09'	135.34'	135.34'	53.15'	145.41'	21.44°	1.24°
33	7409.00'	5.00°	199.60°	31'	7401.97'	132.79'	132.79'	52.26'	142.71'	21.48°	0.20°
34	7441.00'	4.80°	198.30°	32'	7433.85'	130.21'	130.21'	51.37'	139.98'	21.53°	0.71°
35	7472.00'	4.70°	198.90°	31'	7464.74'	127.78'	127.78'	50.55'	137.41'	21.59°	0.36°
36	7503.00'	5.20°	200.40°	31'	7495.63'	125.26'	125.26'	49.65'	134.74'	21.62°	1.67°
37	7535.00'	5.30°	202.70°	32'	7527.50'	122.53'	122.53'	48.57'	131.81'	21.62°	0.73°
38	7566.00'	5.00°	199.60°	31'	7558.37'	119.94'	119.94'	47.57'	129.03'	21.63°	1.32°
39	7598.00'	4.90°	198.80°	32'	7590.25'	117.33'	117.33'	46.66'	126.27'	21.69°	0.38°
40	7629.00'	4.80°	198.50°	31'	7621.14'	114.85'	114.85'	45.82'	123.65'	21.75°	0.33°
41	7661.00'	4.80°	200.40°	32'	7653.03'	112.33'	112.33'	44.93'	120.98'	21.80°	0.50°
42	7692.00'	4.60°	197.20°	31'	7683.92'	109.92'	109.92'	44.11'	118.44'	21.87°	1.06°
43	7724.00'	4.60°	200.40°	32'	7715.82'	107.49'	107.49'	43.28'	115.88'	21.93°	0.80°
44	7756.00'	5.20°	198.90°	32'	7747.70'	104.92'	104.92'	42.37'	113.15'	21.99°	1.92°
45	7787.00'	5.40°	199.20°	31'	7778.57'	102.21'	102.21'	41.43'	110.29'	22.07°	0.65°
46	7819.00'	5.30°	200.00°	32'	7810.43'	99.40'	99.40'	40.43'	107.31'	22.13°	0.39°
47	7850.00'	5.00°	198.50°	31'	7841.31'	96.78'	96.78'	39.51'	104.53'	22.21°	1.06°
48	7881.00'	4.90°	199.60°	31'	7872.19'	94.25'	94.25'	38.64'	101.86'	22.29°	0.44°
49	7913.00'	4.80°	197.40°	32'	7904.08'	91.68'	91.68'	37.78'	99.16'	22.40°	0.66°
50	7945.00'	4.80°	197.00°	32'	7935.96'	89.12'	89.12'	36.99'	96.50'	22.54°	0.10°
51	7976.00'	4.70°	198.40°	31'	7966.86'	86.68'	86.68'	36.21'	93.94'	22.67°	0.49°
52	8008.00'	4.80°	196.50°	32'	7998.75'	84.15'	84.15'	35.42'	91.30'	22.82°	0.58°
53	8039.00'	5.50°	199.30°	31'	8029.62'	81.51'	81.51'	34.56'	88.53'	22.98°	2.40°
54	8071.00'	5.20°	199.50°	32'	8061.48'	78.69'	78.69'	33.57'	85.55'	23.10°	0.94°
55	8103.00'	5.40°	199.90°	32'	8093.35'	75.91'	75.91'	32.57'	82.60'	23.22°	0.64°
56	8134.00'	5.20°	199.40°	31'	8124.21'	73.21'	73.21'	31.61'	79.74'	23.35°	0.66°
57	8166.00'	5.10°	193.80°	32'	8156.08'	70.46'	70.46'	30.79'	76.89'	23.60°	1.60°
58	8197.00'	4.70°	191.80°	31'	8186.97'	67.88'	67.88'	30.20'	74.30'	23.98°	1.40°
59	8228.00'	5.10°	193.10°	31'	8217.86'	65.30'	65.30'	29.62'	71.70'	24.40°	1.34°
60	8259.00'	5.40°	196.10°	31'	8248.73'	62.55'	62.55'	28.91'	68.91'	24.80°	1.31°
61	8289.00'	5.30°	196.70°	30'	8278.60'	59.87'	59.87'	28.12'	66.14'	25.16°	0.38°
62	8320.00'	5.40°	197.60°	31'	8309.46'	57.11'	57.11'	27.27'	63.28'	25.52°	0.42°
63	8351.00'	5.30°	193.50°	31'	8340.33'	54.33'	54.33'	26.49'	60.44'	26.00°	1.27°
64	8382.00'	5.20°	195.90°	31'	8371.20'	51.58'	51.58'	25.77'	57.66'	26.55°	0.78°
65	8414.00'	5.10°	196.70°	32'	8403.07'	48.82'	48.82'	24.97'	54.84'	27.08°	0.38°
66	8445.00'	4.70°	190.20°	31'	8433.95'	46.26'	46.26'	24.34'	52.27'	27.76°	2.21°
67	8477.00'	4.80°	194.30°	32'	8465.84'	43.67'	43.67'	23.78'	49.72'	28.57°	1.11°
68	8508.00'	4.80°	187.80°	31'	8496.74'	41.13'	41.13'	23.29'	47.26'	29.52°	1.75°
69	8540.00'	4.90°	192.40°	32'	8528.62'	38.46'	38.46'	22.81'	44.72'	30.67°	1.25°
70	8571.00'	4.80°	187.40°	31'	8559.51'	35.89'	35.89'	22.36'	42.28'	31.93°	1.40°
71	8603.00'	4.90°	188.30°	32'	8591.40'	33.21'	33.21'	21.99'	39.83'	33.51°	0.39°
72	8634.00'	4.60°	188.50°	31'	8622.29'	30.67'	30.67'	21.61'	37.52'	35.18°	0.97°
73	8665.00'	4.60°	200.60°	31'	8653.19'	28.27'	28.27'	20.99'	35.21'	36.59°	3.12°
74	8696.00'	4.80°	197.50°	31'	8684.09'	25.87'	25.87'	20.17'	32.80'	37.93°	1.04°
75	8728.00'	4.80°	198.40°	32'	8715.97'	23.32'	23.32'	19.34'	30.30'	39.67°	0.24°
76	8760.00'	4.60°	208.60°	32'	8747.87'	20.93'	20.93'	18.30'	27.80'	41.17°	2.68°
77	8791.00'	4.70°	210.60°	31'	8778.77'	18.74'	18.74'	17.06'	25.35'	42.31°	0.61°
78	8823.00'	4.90°	207.30°	32'	8810.65'	16.40'	16.40'	15.77'	22.75'	43.87°	1.07°
79	8854.00'	4.60°	211.30°	31'	8841.55'	14.16'	14.16'	14.51'	20.28'	45.71°	1.44°

Srv. No.	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (deg/100 ')
							+N / -S (ft)	+E / -W (ft)	Distance (ft)	Azimuth (deg)	
80	8885.00'	4.70°	213.80°	31'	8872.44'	12.04'	12.04'	13.16'	17.84'	47.54°	0.73°
81	8916.00'	4.10°	212.00°	31'	8903.35'	10.05'	10.05'	11.87'	15.55'	49.75°	1.99°
82	8947.00'	3.50°	218.90°	31'	8934.28'	8.37'	8.37'	10.69'	13.58'	51.93°	2.43°
83	8979.00'	3.00°	223.00°	32'	8966.23'	7.00'	7.00'	9.50'	11.80'	53.62°	1.72°
84	9010.00'	2.60°	215.70°	31'	8997.20'	5.84'	5.84'	8.54'	10.34'	55.65°	1.73°
85	9042.00'	3.00°	211.20°	32'	9029.16'	4.53'	4.53'	7.68'	8.92'	59.47°	1.43°
86	9073.00'	2.40°	220.30°	31'	9060.12'	3.34'	3.34'	6.84'	7.61'	63.97°	2.37°
87	9105.00'	2.10°	214.70°	32'	9092.10'	2.35'	2.35'	6.07'	6.51'	68.87°	1.16°
88	9137.00'	1.90°	230.30°	32'	9124.08'	1.53'	1.53'	5.33'	5.55'	74.02°	1.81°
89	9168.00'	1.50°	231.90°	31'	9155.07'	0.95'	0.95'	4.62'	4.71'	78.40°	1.30°
90	9200.00'	1.40°	220.80°	32'	9187.06'	0.39'	0.39'	4.03'	4.05'	84.42°	0.93°
91	9263.00'	1.50°	208.30°	63'	9250.04'	-0.91'	-0.91'	3.14'	3.27'	106.24°	0.53°
92	9325.00'	1.40°	210.30°	62'	9312.02'	-2.28'	-2.28'	2.37'	3.29'	133.90°	0.18°
93	9387.00'	1.10°	206.70°	62'	9374.00'	-3.47'	-3.47'	1.72'	3.87'	153.59°	0.50°
94	9450.00'	0.90°	219.80°	63'	9436.99'	-4.39'	-4.39'	1.13'	4.53'	165.51°	0.48°
95	9513.00'	1.20°	197.40°	63'	9499.98'	-5.40'	-5.40'	0.62'	5.43'	173.44°	0.80°
96	9544.00'	1.00°	185.80°	31'	9530.98'	-5.98'	-5.98'	0.50'	6.00'	175.26°	0.96°
97	9607.00'	0.60°	189.30°	63'	9593.97'	-6.85'	-6.85'	0.39'	6.86'	176.77°	0.64°
98	9670.00'	0.90°	195.00°	63'	9656.96'	-7.65'	-7.65'	0.21'	7.66'	178.46°	0.49°
99	9763.00'	1.00°	193.30°	93'	9749.95'	-9.15'	-9.15'	-0.17'	9.15'	181.06°	0.11°
100	9858.00'	1.00°	193.60°	95'	9844.94'	-10.76'	-10.76'	-0.56'	10.78'	182.96°	0.01°
101	9890.00'	0.70°	180.30°	32'	9876.93'	-11.23'	-11.23'	-0.62'	11.25'	183.17°	1.12°
102	9921.00'	1.20°	180.00°	31'	9907.93'	-11.74'	-11.74'	-0.62'	11.76'	183.04°	1.61°
103	9984.00'	0.50°	298.60°	63'	9970.92'	-12.27'	-12.27'	-0.86'	12.30'	184.03°	2.39°
104	10047.00'	0.30°	20.30°	63'	10033.92'	-11.98'	-11.98'	-1.05'	12.03'	185.00°	0.86°
105	10111.00'	0.00°	152.40°	64'	10097.92'	-11.83'	-11.83'	-0.99'	11.87'	184.79°	0.47°
106	10205.00'	0.30°	304.50°	94'	10191.92'	-11.69'	-11.69'	-1.19'	11.75'	185.83°	0.32°
107	10299.00'	0.80°	7.80°	94'	10285.92'	-10.90'	-10.90'	-1.31'	10.98'	186.84°	0.76°