

Strata Directional Technology, Inc.

Survey Report

Company: CHESAPEAKE ENERGY CORPORATION	Date: 02/01/2006	Time: 14:16:56	Page: 1
Field: Lea County, New Mexico	Co-ordinate(NE) Reference:	Site: Young "11" Federal, Grid North	
Site: Young "11" Federal	Vertical (TVD) Reference:	GL 3808' + KB 20' 3828.0	
Well: #3	Section (VS) Reference:	Well (0.00N,0.00E,23.79Azi)	
Wellpath: Original Hole	Survey Calculation Method:	Minimum Curvature Db: Adapti	

Field: Lea County, New Mexico

Map System: US State Plane Coordinate System 1927
 Geo Datum: NAD27 (Clarke 1866)
 Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
 Coordinate System: Site Centre
 Geomagnetic Model: igrf2005

Site: Young "11" Federal
 Burrus Field
 2424' FNL, 468' FWL

Site Position:	Northing: 805025.00 ft	Latitude: 33 12 24.047 N	
From: Map	Easting: 885138.00 ft	Longitude: 103 4 27.134 W	
Position Uncertainty: 0.00 ft		North Reference: Grid	
Ground Level: 3808.00 ft		Grid Convergence: 0.69 deg	

Well: #3

Slot Name:

Well Position: +N/-S 0.00 ft	Northing: 805025.00 ft	Latitude: 33 12 24.047 N	
+E/-W 0.00 ft	Easting: 885138.00 ft	Longitude: 103 4 27.134 W	
Position Uncertainty: 0.00 ft			

Wellpath: Original Hole

Current Datum: GL 3808' + KB 20'	Height 3828.00 ft	Drilled From: Surface	
Magnetic Data: 01/12/2006		Tie-on Depth: 0.00 ft	
Field Strength: 49857 nT		Above System Datum: Mean Sea Level	
Vertical Section: Depth From (TVD)	+N/-S	Declination: 8.07 deg	
ft	ft	Mag Dip Angle: 61.33 deg	
		+E/-W	Direction
		ft	deg
0.00	0.00	0.00	23.79

Survey Program for Definitive Wellpath

Date: 02/01/2006	Validated: No	Version: 0	
Actual From To	Survey	Toolcode	Tool Name
ft ft			
200.00 6400.00	Survey #1 (200.00-6400.00)	Gyroscope	Gyroscope
6470.00 9576.00	Survey #2 (6470.00-9576.00)	MWD	Std MWD
9671.00 9671.00	Survey #3 (9671.00-9671.00)	Project	Projection

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Bulld deg/100ft	Turn deg/100ft	Tool/Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	TIE LINE
200.00	0.75	155.67	199.99	-1.19	0.54	-0.87	0.37	0.37	0.00	Gyroscope
400.00	0.75	133.54	399.98	-3.29	2.03	-2.19	0.14	0.00	-11.06	Gyroscope
600.00	0.25	122.43	599.97	-4.42	3.34	-2.70	0.25	-0.25	-5.55	Gyroscope
800.00	0.50	184.31	799.97	-5.53	3.65	-3.59	0.22	0.12	30.94	Gyroscope
1000.00	0.25	187.19	999.96	-6.83	3.53	-4.83	0.13	-0.12	1.44	Gyroscope
1200.00	0.50	212.07	1199.96	-8.00	3.01	-6.11	0.15	0.12	12.44	Gyroscope
1400.00	0.75	192.95	1399.94	-10.02	2.25	-8.26	0.16	0.12	-9.56	Gyroscope
1600.00	0.75	210.83	1599.93	-12.42	1.29	-10.84	0.12	0.00	8.94	Gyroscope
1800.00	0.75	204.71	1799.91	-14.73	0.07	-13.45	0.04	0.00	-3.06	Gyroscope
2000.00	0.00	0.00	1999.91	-15.92	-0.48	-14.76	0.37	-0.37	0.00	Gyroscope
2200.00	0.50	171.76	2199.90	-16.78	-0.35	-15.50	0.25	0.25	0.00	Gyroscope
2400.00	0.50	118.64	2399.90	-18.07	0.54	-16.31	0.22	0.00	-26.56	Gyroscope
2600.00	0.25	243.52	2599.89	-18.68	0.91	-16.72	0.34	-0.12	62.44	Gyroscope
2800.00	0.25	12.40	2799.89	-18.45	0.62	-16.63	0.23	0.00	64.44	Gyroscope
3000.00	0.25	102.28	2999.89	-18.11	1.14	-16.11	0.18	0.00	44.94	Gyroscope
3200.00	0.25	75.16	3199.89	-18.09	1.99	-15.76	0.06	0.00	-13.56	Gyroscope
3400.00	0.25	50.04	3399.89	-17.70	2.74	-15.09	0.05	0.00	-12.56	Gyroscope
3600.00	0.25	10.92	3599.89	-16.99	3.16	-14.27	0.08	0.00	-19.56	Gyroscope
3800.00	0.25	208.80	3799.89	-16.95	3.03	-14.28	0.25	0.00	-81.06	Gyroscope
4000.00	0.25	40.68	3999.88	-17.00	3.11	-14.30	0.25	0.00	-84.06	Gyroscope

SUR: E-11-13s-38e, 2412N & 417NW
 BHL: E-11-13s-38e, 2149N & 548W
 API # 30-025-37183

Strata Directional Technology, Inc.

Survey Report

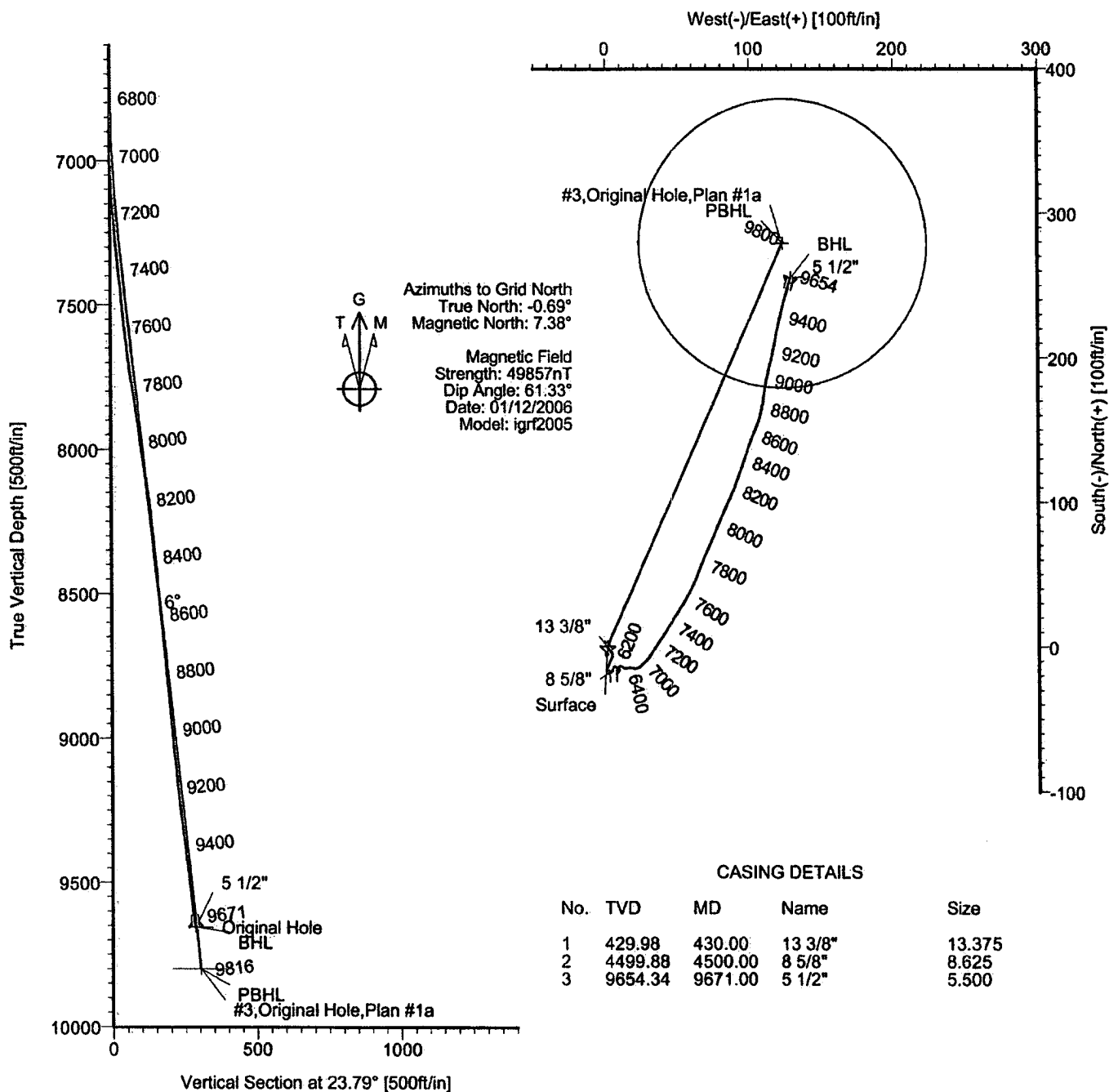
Company: CHESAPEAKE ENERGY CORPORATION Field: Lea County, New Mexico Site: Young "11" Federal Well: #3 Wellpath: Original Hole	Date: 02/01/2006 Time: 14:16:56 Page: 2 Co-ordinate(NE) Reference: Site: Young "11" Federal, Grid North Vertical (TVD) Reference: GL 3808' + KB 20' 3828.0 Section (VS) Reference: Well (0.00N,0.00E,23.79Azi) Survey Calculation Method: Minimum Curvature Db: Adapti
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Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
4200.00	0.25	137.56	4199.88	-16.99	3.68	-14.06	0.19	0.00	48.44	Gyroscope
4400.00	0.25	359.32	4399.88	-16.88	3.97	-13.84	0.23	0.00	-69.12	Gyroscope
4600.00	0.25	353.95	4599.88	-16.01	3.92	-13.06	0.01	0.00	-2.68	Gyroscope
4800.00	0.50	13.58	4799.88	-14.72	4.08	-11.83	0.14	0.12	9.82	Gyroscope
5000.00	0.50	106.21	4999.87	-14.12	5.12	-10.85	0.36	0.00	46.31	Gyroscope
5200.00	0.50	107.84	5199.86	-14.63	6.79	-10.65	0.01	0.00	0.81	Gyroscope
5400.00	0.25	37.47	5399.86	-14.55	7.89	-10.13	0.24	-0.12	-35.18	Gyroscope
5600.00	0.25	32.10	5599.86	-13.83	8.39	-9.28	0.01	0.00	-2.68	Gyroscope
5800.00	0.25	102.73	5799.86	-13.56	9.04	-8.76	0.14	0.00	35.31	Gyroscope
6000.00	0.50	120.37	5999.85	-14.10	10.22	-8.78	0.14	0.12	8.82	Gyroscope
6200.00	0.50	112.00	6199.85	-14.87	11.78	-8.85	0.04	0.00	-4.18	Gyroscope
6400.00	1.00	78.25	6399.83	-14.84	14.30	-7.81	0.32	0.25	-16.87	Gyroscope
6470.00	0.75	79.52	6469.82	-14.63	15.35	-7.19	0.36	-0.36	1.81	MWD
6657.00	0.90	115.50	6656.80	-15.04	17.88	-6.55	0.28	0.08	19.24	MWD
6752.00	0.80	98.40	6751.79	-15.46	19.21	-6.40	0.29	-0.11	-18.00	MWD
6842.00	1.30	60.40	6841.78	-15.05	20.72	-5.41	0.92	0.56	-42.22	MWD
6937.00	2.10	55.50	6936.73	-13.53	23.09	-3.06	0.86	0.84	-5.16	MWD
7033.00	3.00	44.90	7032.64	-10.75	26.31	0.78	1.05	0.94	-11.04	MWD
7129.00	4.00	34.30	7128.46	-6.21	29.97	6.41	1.24	1.04	-11.04	MWD
7224.00	4.90	32.70	7223.17	-0.05	34.03	13.68	0.96	0.95	-1.68	MWD
7320.00	5.20	33.80	7318.80	7.01	38.67	22.01	0.33	0.31	1.15	MWD
7415.00	5.90	30.70	7413.35	14.79	43.56	31.10	0.80	0.74	-3.26	MWD
7507.00	5.70	33.70	7504.88	22.65	48.50	40.30	0.39	-0.22	3.26	MWD
7582.00	6.20	31.40	7579.48	29.21	52.68	47.98	0.74	0.67	-3.07	MWD
7677.00	6.90	27.40	7673.86	38.65	57.98	58.76	0.88	0.74	-4.21	MWD
7773.00	8.90	21.10	7768.94	50.70	63.31	71.93	2.27	2.08	-6.56	MWD
7869.00	8.30	23.40	7863.87	63.99	68.73	86.28	0.72	-0.62	2.40	MWD
7964.00	8.10	24.00	7957.89	76.40	74.18	99.83	0.23	-0.21	0.63	MWD
8059.00	8.20	23.40	8051.93	88.73	79.59	113.30	0.14	0.11	-0.63	MWD
8154.00	7.50	24.60	8146.04	100.59	84.86	126.27	0.76	-0.74	1.26	MWD
8249.00	6.50	20.70	8240.33	111.25	89.34	137.84	1.16	-1.05	-4.11	MWD
8345.00	5.60	19.60	8335.80	120.75	92.84	147.94	0.95	-0.94	-1.15	MWD
8440.00	5.50	19.20	8430.35	129.41	95.89	157.10	0.11	-0.11	-0.42	MWD
8535.00	5.40	20.80	8524.92	137.89	98.97	166.10	0.19	-0.11	1.68	MWD
8631.00	5.40	20.70	8620.50	146.34	102.17	175.12	0.01	0.00	-0.10	MWD
8725.00	5.30	22.10	8714.09	154.50	105.37	183.88	0.17	-0.11	1.49	MWD
8820.00	6.10	11.90	8808.62	163.51	108.06	193.20	1.36	0.84	-10.74	MWD
8915.00	5.20	8.70	8903.16	172.70	109.75	202.30	1.00	-0.95	-3.37	MWD
9007.00	5.90	10.30	8994.73	181.47	111.23	210.92	0.78	0.76	1.74	MWD
9103.00	5.60	14.10	9090.24	190.87	113.25	220.34	0.50	-0.31	3.96	MWD
9198.00	5.80	12.60	9184.77	200.05	115.43	229.62	0.26	0.21	-1.58	MWD
9293.00	7.40	11.30	9279.14	210.74	117.68	240.30	1.69	1.68	-1.37	MWD
9387.00	7.30	12.50	9372.37	222.50	120.16	252.07	0.19	-0.11	1.28	MWD
9481.00	7.00	14.10	9465.64	233.89	122.84	263.57	0.38	-0.32	1.70	MWD
9576.00	6.60	16.00	9559.97	244.75	125.76	274.68	0.48	-0.42	2.00	MWD
9671.00	6.60	16.00	9654.34	255.25	128.77	285.50	0.00	0.00	0.00	PROJECTED to TD

CHESAPEAKE ENERGY CORPORATION

Field: Lea County, New Mexico
Site: Young "11" Federal
Well: #3
Wellpath: Original Hole



TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Surface	0.00	0.00	0.00	805025.00	885138.00	33°12'24.047N	103°04'27.134W	Point
BHL	9654.34	255.25	128.77	805280.25	885266.77	33°12'26.556N	103°04'25.583W	Point
PBHL	9800.00	279.00	123.00	805304.00	885261.00	33°12'26.792N	103°04'25.647W	Circle (Radius: 100)

STRATA
DIRECTIONAL TECHNOLOGY, INC.

STRATA DIRECTIONAL TECHNOLOGY, INC.
1034 Regional Park Drive Houston, Texas 77060
Phone: 713-934-9600 Fax: 713-934-9067

Wellpath: (#3/Original Hole)
Created By: Nora Tucker Date: 02/01/2006
Checked: Date: