

Survey Report

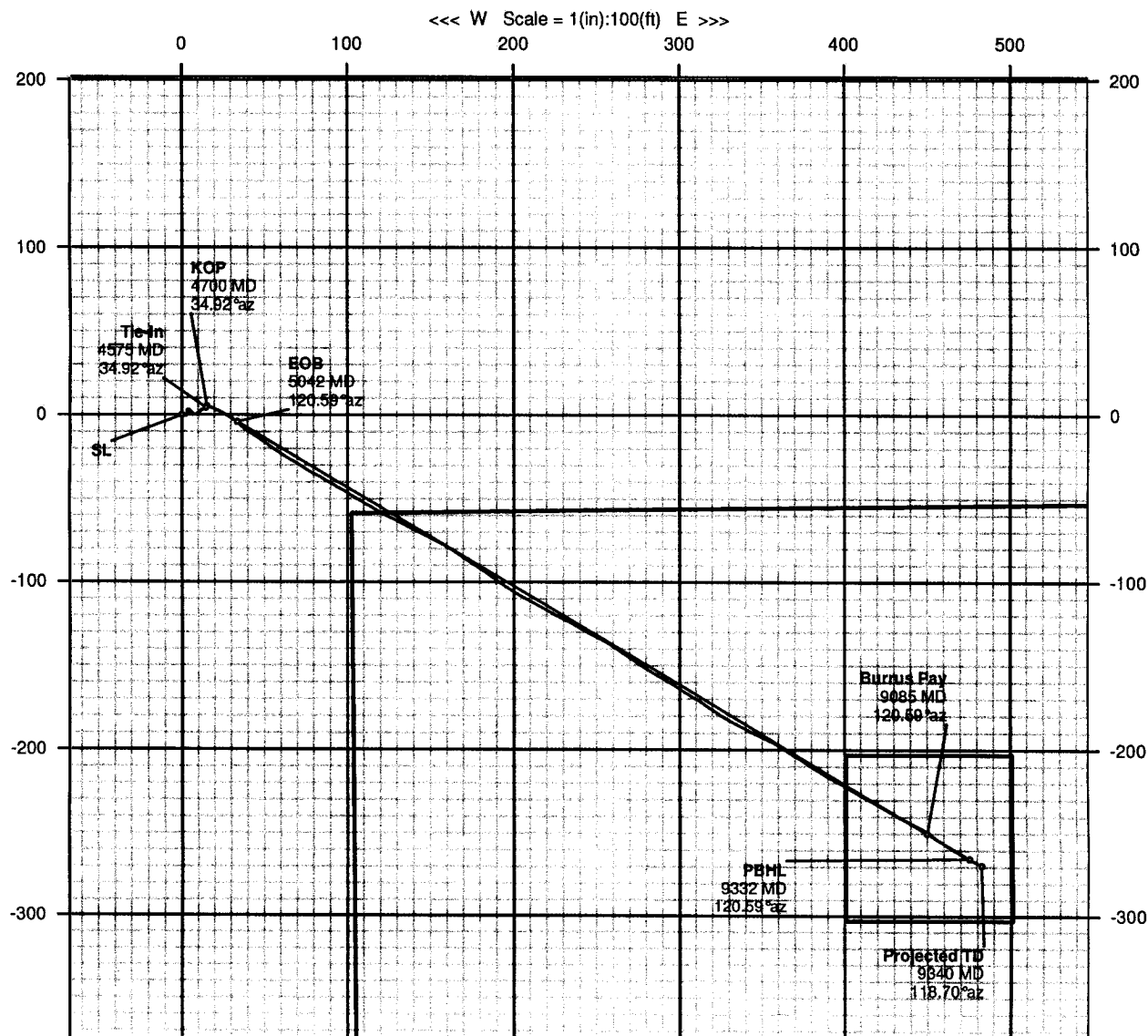
Report Date: November 18, 2006	Survey / DLS Computation Method: Minimum Curvature / Lubinski
Client: Chesapeake Operating, INC.	Vertical Section Azimuth: 119.160°
Field: Lea County, NM	Vertical Section Origin: N 0.000 ft, E 0.000 ft
Structure / Slot: Young 11 Federal #4 / Young 11 Federal #4	TVD Reference Datum: RKB
Well: Young 11 Federal #4	TVD Reference Elevation: 0.0 ft relative to
Borehole: Young 11 Federal #4	Red / Ground Level Elevation: 0.000 ft relative to
UWI/API#:	Magnetic Declination: 7.971°
Survey Name / Date: Young 11 Federal #4_surveys / November 7, 2006	Total Field Strength: 49779.106 nT
Tort / AHD / DDI / ERD ratio: 56.386° / 563.78 ft / 4.504 / 0.061	Magnetic Dip: 61.315°
Grid Coordinate System: NAD27 New Mexico State Planes, Eastern Zone, US Feet	Declination Date: November 07, 2006
Location Lat/Long: N 33 12 45.446, W 103 4 29.937	Magnetic Declination Model: IGRF 2005
Location Grid N/E Y/X: N 807185.000 RUS, E 884873.800 RUS	North Reference: Grid North
Grid Convergence Angle: +0.68933724°	Total Corr Mag North -> Grid North: +7.282°
Grid Scale Factor: 1.00007871	Local Coordinates Referenced To: Well Head

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)
Tie-In	4575.00	0.48	34.92	4574.94	10.57	4.36	14.54	15.18	73.30	0.16
	4650.00	0.04	356.00	4649.94	10.59	4.65	14.71	15.43	72.48	0.60
	4682.00	0.50	84.00	4681.94	10.69	4.67	14.85	15.57	72.54	1.56
	4714.00	0.70	100.10	4713.94	10.99	4.65	15.18	15.88	72.97	0.81
	4746.00	0.04	356.00	4745.94	11.17	4.63	15.38	16.06	73.25	2.22
	4778.00	0.50	84.00	4777.94	11.28	4.65	15.51	16.20	73.30	1.56
	4810.00	0.70	100.10	4809.94	11.58	4.63	15.85	16.51	73.70	0.81
	4842.00	1.50	95.10	4841.93	12.15	4.56	16.45	17.08	74.50	2.52
	4908.00	2.60	107.60	4907.89	14.40	4.03	18.74	19.17	77.86	1.79
	4971.00	5.00	117.20	4970.75	18.55	2.35	22.55	22.67	84.06	3.93
	5003.00	5.50	114.40	5002.61	21.47	1.07	25.18	25.21	87.56	1.76
	5067.00	5.50	125.10	5066.32	27.58	-1.96	30.49	30.55	93.67	1.60
	5131.00	6.90	131.90	5129.94	34.38	-6.29	35.86	36.40	99.94	2.47
	5194.00	7.50	121.60	5192.45	42.18	-10.97	42.18	43.58	104.58	2.26
	5258.00	6.60	124.50	5255.96	50.01	-15.24	48.77	51.09	107.36	1.51
	5322.00	7.00	125.80	5319.51	57.55	-19.61	54.96	58.35	109.63	0.67
	5386.00	7.10	120.90	5383.03	65.37	-23.92	61.52	66.00	111.25	0.95
	5450.00	6.80	120.90	5446.56	73.11	-27.89	68.16	73.65	112.26	0.47
	5514.00	6.70	122.90	5510.12	80.63	-31.87	74.55	81.07	113.15	0.40
	5577.00	6.50	116.40	5572.70	87.86	-35.45	80.83	88.26	113.68	1.23
	5641.00	6.60	120.10	5636.28	95.15	-38.91	87.25	95.53	114.03	0.68
	5704.00	7.30	120.30	5698.82	102.77	-42.74	93.84	103.12	114.49	1.11
	5768.00	7.20	122.20	5762.31	110.84	-46.93	100.75	111.14	114.98	0.41
	5832.00	7.00	120.00	5825.82	118.75	-51.02	107.52	119.01	115.38	0.53
	5896.00	6.80	120.30	5889.35	126.44	-54.88	114.17	126.67	115.67	0.32
	5960.00	6.30	120.40	5952.94	133.74	-58.57	120.47	133.95	115.93	0.78
	6024.00	6.90	113.90	6016.51	141.07	-61.90	127.01	141.29	115.98	1.50
	6087.00	6.40	119.30	6079.09	148.35	-65.15	133.53	148.58	116.01	1.27
	6151.00	6.60	117.40	6142.68	155.60	-68.59	139.91	155.82	116.12	0.46
	6214.00	7.40	116.60	6205.21	163.27	-72.07	146.75	163.49	116.16	1.28
	6278.00	6.70	116.70	6268.72	171.12	-75.60	153.77	171.35	116.18	1.09
	6341.00	7.30	120.70	6331.25	178.79	-79.29	160.50	179.01	116.29	1.23
	6405.00	6.60	125.30	6394.78	186.51	-83.49	166.99	186.70	116.56	1.40
	6469.00	7.20	121.40	6458.32	194.18	-87.71	173.42	194.34	116.83	1.19
	6533.00	6.40	125.20	6521.87	201.73	-91.85	179.76	201.87	117.07	1.43
	6596.00	6.30	125.40	6584.48	208.66	-95.88	185.44	208.76	117.34	0.16
	6665.00	6.80	125.00	6653.03	216.49	-100.42	191.88	216.56	117.62	0.73
	6729.00	7.50	122.70	6716.53	224.42	-104.85	198.49	224.48	117.84	1.18

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)
	6793.00	7.70	117.70	6779.97	232.88	-109.10	205.81	232.93	117.93	1.08
	6856.00	6.90	119.70	6842.46	240.88	-112.93	212.83	240.94	117.95	1.33
	6920.00	6.60	117.90	6906.02	248.40	-116.56	219.42	248.46	117.98	0.57
	6982.00	6.90	119.70	6967.59	255.69	-120.07	225.80	255.74	118.00	0.59
	7046.00	6.60	115.40	7031.15	263.20	-123.55	232.47	263.26	117.99	0.92
	7110.00	6.40	121.20	7094.73	270.44	-126.98	238.84	270.50	118.00	1.07
	7173.00	7.00	118.20	7157.30	277.79	-130.61	245.23	277.84	118.04	1.10
	7237.00	6.60	116.60	7220.85	285.36	-134.10	251.95	285.42	118.02	0.69
	7301.00	6.10	122.00	7284.46	292.43	-137.55	258.12	292.49	118.05	1.22
	7333.00	6.10	124.60	7316.28	295.82	-139.42	260.97	295.87	118.11	0.86
	7396.00	7.20	123.20	7378.86	303.09	-143.48	267.02	303.13	118.25	1.76
	7460.00	7.10	124.40	7442.36	311.03	-147.91	273.64	311.06	118.39	0.28
	7523.00	7.70	121.90	7504.83	319.13	-152.34	280.44	319.15	118.51	1.08
	7587.00	7.30	119.00	7568.29	327.47	-156.58	287.64	327.49	118.56	0.86
	7651.00	7.20	120.80	7631.77	335.55	-160.60	294.64	335.57	118.59	0.39
	7715.00	7.10	124.90	7695.28	343.49	-164.92	301.33	343.50	118.69	0.81
	7778.00	7.30	117.50	7757.78	351.37	-168.99	308.07	351.38	118.75	1.50
	7842.00	7.10	125.50	7821.28	359.36	-173.17	314.90	359.37	118.81	1.60
	7906.00	7.50	122.70	7884.76	367.46	-177.72	321.63	367.47	118.92	0.84
	7970.00	7.80	118.80	7948.19	375.98	-182.07	328.95	375.98	118.96	0.94
	8034.00	7.20	116.50	8011.64	384.33	-185.95	336.35	384.33	118.94	1.05
	8098.00	6.70	117.70	8075.17	392.06	-189.48	343.24	392.07	118.90	0.81
	8161.00	7.00	112.90	8137.72	399.55	-192.68	350.03	399.56	118.83	1.03
	8225.00	6.90	117.80	8201.25	407.27	-195.99	357.03	407.28	118.76	0.94
	8289.00	7.30	124.70	8264.76	415.16	-200.10	363.77	415.17	118.81	1.47
	8352.00	7.20	118.90	8327.26	423.10	-204.28	370.52	423.10	118.87	1.17
	8416.00	7.70	123.40	8390.72	431.38	-208.58	377.61	431.39	118.92	1.20
	8480.00	7.60	122.20	8454.15	439.88	-213.20	384.77	439.89	118.99	0.29
	8540.00	7.80	118.10	8513.61	447.92	-217.23	391.72	447.92	119.01	0.97
	8604.00	7.70	118.70	8577.03	456.55	-221.34	399.31	456.55	119.00	0.20
	8667.00	7.90	119.90	8639.44	465.10	-225.52	406.76	465.10	119.01	0.41
	8731.00	7.50	117.40	8702.87	473.67	-229.64	414.29	473.67	119.00	0.82
	8794.00	7.20	121.90	8765.35	481.72	-233.61	421.29	481.72	119.01	1.03
	8857.00	8.10	119.10	8827.79	490.10	-237.86	428.52	490.11	119.03	1.55
	8920.00	7.50	116.70	8890.20	498.65	-241.86	436.07	498.65	119.01	1.08
	8983.00	7.40	116.50	8952.67	506.81	-245.52	443.37	506.81	118.98	0.16
	9046.00	6.60	125.00	9015.20	514.47	-249.41	449.97	514.47	119.00	2.07
	9108.00	7.10	124.00	9076.76	521.83	-253.60	456.07	521.83	119.08	0.83
	9285.00	7.80	118.70	9252.27	544.74	-265.48	475.67	544.74	119.17	0.55
Projected TD	9340.00	7.80	118.70	9306.76	552.20	-269.07	482.22	552.20	119.16	0.00

Chesapeake Operating, INC.

WELL	Young 11 Federal #4	FIELD	Lea County, NM	STRUCTURE	Young 11 Federal #4																								
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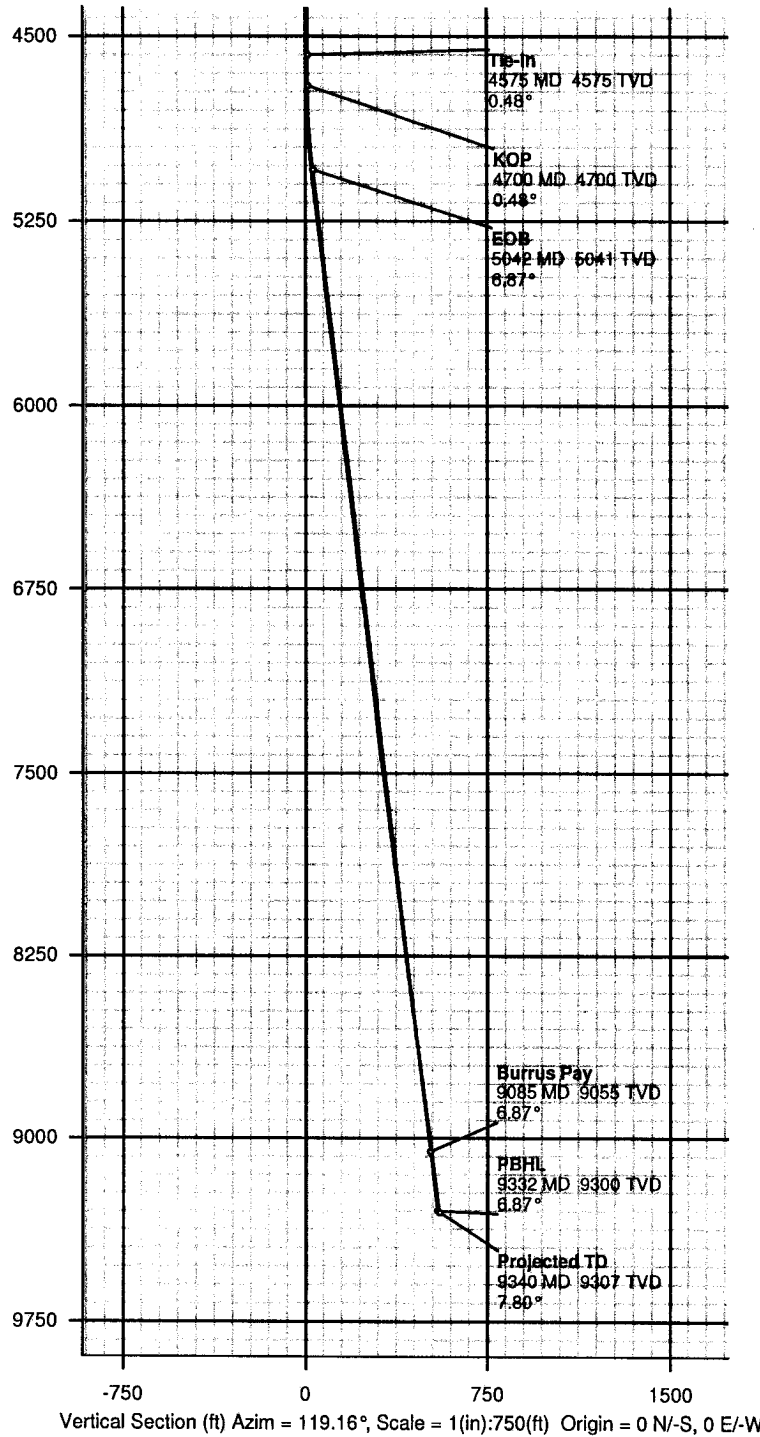


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WELL	Young 11 Federal #4	FIELD	Lea County, NM	STRUCTURE	Young 11 Federal #4
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