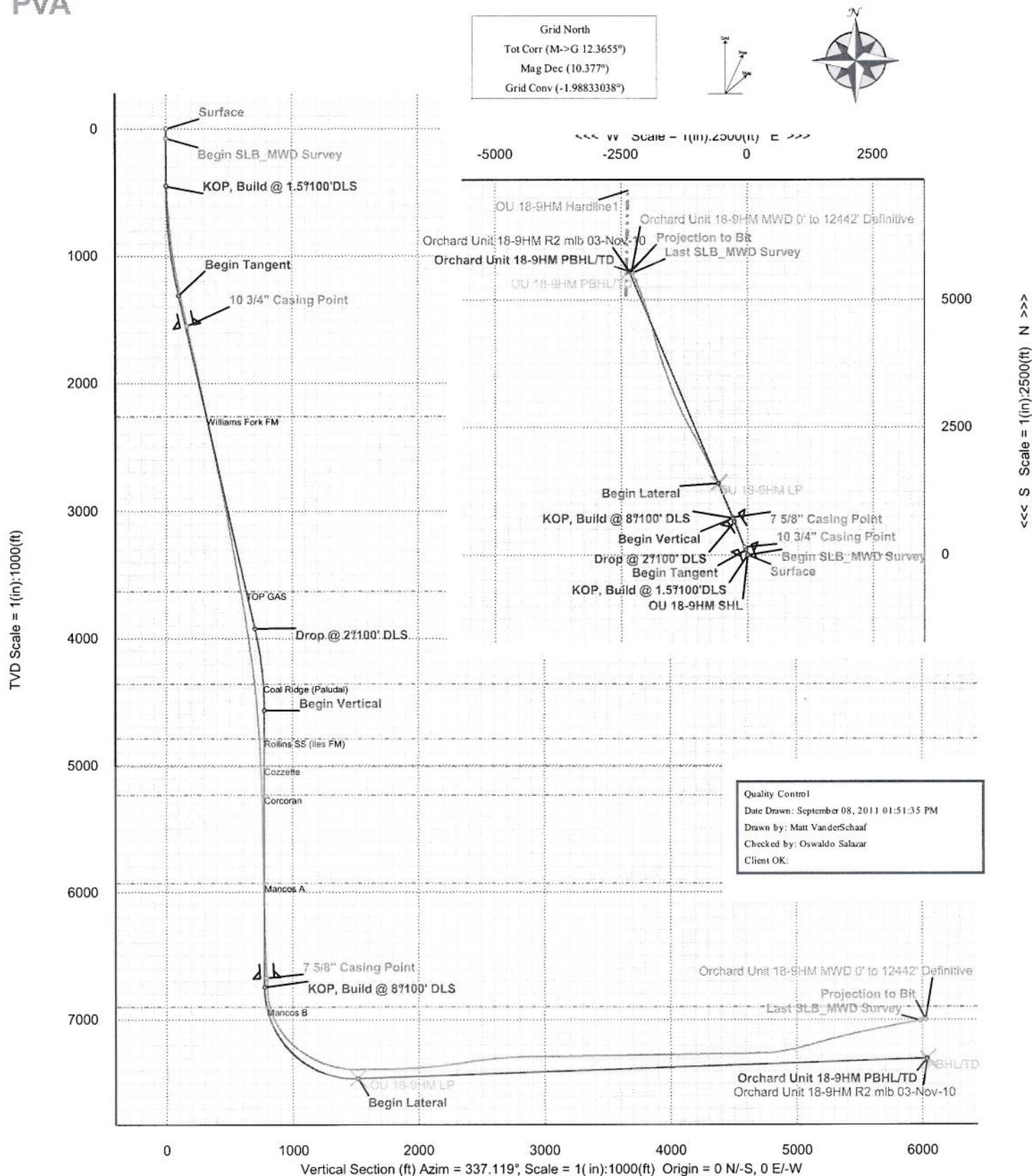


WELL <b>Orchard Unit 18-9HM</b>	FIELD <b>CO, Mesa County (NAD 83 UTM 13)</b>	STRUCTURE <b>Encana 20-08S-96W (K200U Pad)</b>
Magnetic Parameters Model: BGGM 2011 Dip: 65.570° Mag Dec: 10.377°	Surface Location Lat: N 39 19 55.520 Lon: W 108 8 6.690 NAD83 UTM Zone 13N US Feet Northing: 14296917.01 NUS Easting: 753820.97 AUS Grid Conv: -1.98833038° Scale Fact: 1.00049925	Miscellaneous Skd: Orchard Unit 18-9HM Plan: MWD 0' to 12442' Definitive TVD Ref: RKB(5952ft above MSL) Srv Date: September 08, 2011

PVA



**Orchard Unit 18-9HM (K20OU)****API #: 05077101130000**

Depth	Angle	Direction	TVD	Northings	Eastings	Vertical Secti	Dog Leg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23.00	0.06	346.49	23.00	0.01	0.00	0.01	0.26
76.00	0.20	346.49	76.00	0.13	-0.03	0.13	0.26
106.00	0.09	90.84	106.00	0.18	-0.02	0.17	0.80
137.00	0.15	101.75	137.00	0.17	0.04	0.14	0.21
167.00	0.06	28.40	167.00	0.18	0.09	0.13	0.48
196.00	0.55	356.98	196.00	0.33	0.09	0.27	1.72
228.00	0.38	338.37	228.00	0.58	0.04	0.52	0.70
260.00	0.77	343.62	260.00	0.89	-0.06	0.84	1.23
287.00	0.81	306.85	286.99	1.17	-0.26	1.18	1.85
320.00	1.06	312.30	319.99	1.52	-0.67	1.66	0.80
350.00	1.08	336.12	349.98	1.97	-0.99	2.20	1.47
378.00	1.47	327.51	377.98	2.51	-1.29	2.81	1.55
411.00	1.73	328.50	410.96	3.29	-1.78	3.72	0.79
441.00	2.09	336.43	440.95	4.18	-2.24	4.72	1.49
468.00	2.24	325.40	467.93	5.06	-2.73	5.73	1.64
501.00	2.52	333.96	500.90	6.25	-3.42	7.08	1.37
531.00	3.33	332.53	530.86	7.61	-4.11	8.61	2.71
558.00	3.65	331.41	557.81	9.06	-4.88	10.25	1.21
590.00	3.89	329.25	589.74	10.89	-5.92	12.34	0.87
648.00	4.39	335.01	647.59	14.59	-7.87	16.50	1.12
740.00	4.75	330.23	739.30	21.09	-11.25	23.80	0.57
831.00	5.89	333.70	829.90	28.55	-15.19	32.21	1.30
921.00	7.43	336.13	919.30	38.01	-19.59	42.63	1.74
1012.00	8.84	338.89	1009.38	49.91	-24.49	55.51	1.61
1105.00	9.94	338.17	1101.13	64.03	-30.05	70.68	1.19
1199.00	11.54	341.62	1193.48	80.49	-36.03	88.16	1.83
1292.00	11.86	342.09	1284.55	98.41	-41.90	106.96	0.36
1385.00	12.03	341.32	1375.54	116.68	-47.94	126.14	0.25
1479.00	12.45	338.59	1467.40	135.40	-54.78	146.04	0.76
1534.00	12.49	339.61	1521.10	146.49	-59.01	157.91	0.41
1562.00	12.64	339.31	1548.43	152.20	-61.15	164.00	0.59
1599.00	12.84	338.92	1584.52	159.82	-64.06	172.15	0.59
1692.00	12.64	337.19	1675.23	178.84	-71.72	192.66	0.46
1785.00	12.51	336.42	1766.00	197.45	-79.70	212.90	0.23
1878.00	12.46	338.01	1856.80	215.99	-87.48	233.01	0.37
1972.00	12.30	337.58	1948.62	234.64	-95.10	253.16	0.20
2065.00	11.75	338.12	2039.57	252.59	-102.41	272.53	0.60
2159.00	11.63	337.30	2131.62	270.21	-109.63	291.58	0.22
2252.00	11.31	336.75	2222.77	287.24	-116.85	310.07	0.36
2345.00	12.57	342.28	2313.76	305.26	-123.53	329.27	1.83
2439.00	12.27	341.03	2405.56	324.45	-129.89	349.42	0.43
2533.00	12.41	341.00	2497.38	343.44	-136.42	369.46	0.15
2626.00	12.05	341.77	2588.27	362.11	-142.71	389.11	0.42
2719.00	11.83	340.80	2679.26	380.34	-148.88	408.30	0.32
2812.00	11.84	341.15	2770.28	398.37	-155.10	427.33	0.08
2906.00	11.57	342.29	2862.33	416.47	-161.09	446.34	0.38
2999.00	11.01	340.70	2953.53	433.74	-166.86	464.49	0.69
3093.00	10.55	338.34	3045.87	450.21	-173.00	482.05	0.68



3186.00	10.55	336.47	3137.30	465.93	-179.54	499.08	0.37
3279.00	10.10	334.08	3228.79	481.07	-186.51	515.73	0.67
3372.00	10.55	336.02	3320.29	496.18	-193.53	532.39	0.61
3466.00	10.27	334.90	3412.74	511.63	-200.58	549.36	0.37
3559.00	10.47	340.07	3504.22	527.08	-206.98	566.09	1.02
3653.00	10.37	341.01	3596.67	543.11	-212.64	583.06	0.21
3746.00	10.28	340.69	3688.17	558.86	-218.11	599.69	0.11
3840.00	9.32	339.62	3780.80	573.91	-223.54	615.67	1.04
3934.00	8.86	338.14	3873.61	587.76	-228.88	630.51	0.55
4027.00	8.59	336.81	3965.54	600.80	-234.28	644.62	0.36
4120.00	8.32	334.30	4057.53	613.24	-239.94	658.28	0.49
4213.00	8.20	333.63	4149.56	625.25	-245.80	671.62	0.17
4306.00	7.74	333.24	4241.66	636.78	-251.57	684.49	0.50
4399.00	6.62	342.29	4333.94	647.48	-256.02	696.08	1.71
4493.00	6.19	345.72	4427.35	657.55	-258.92	706.48	0.61
4586.00	5.27	339.98	4519.89	666.43	-261.61	715.71	1.16
4680.00	4.24	340.15	4613.56	673.75	-264.27	723.49	1.10
4773.00	4.22	337.50	4706.31	680.15	-266.75	730.34	0.21
4866.00	3.67	338.80	4799.09	686.08	-269.13	736.74	0.60
4960.00	2.86	338.32	4892.93	691.07	-271.09	742.09	0.86
5053.00	2.78	336.46	4985.82	695.29	-272.85	746.67	0.13
5147.00	2.26	340.95	5079.73	699.13	-274.36	750.80	0.59
5240.00	2.02	340.05	5172.66	702.41	-275.52	754.26	0.26
5333.00	2.07	349.62	5265.61	705.60	-276.38	757.54	0.37
5426.00	1.00	348.33	5358.57	708.05	-276.85	759.98	1.15
5520.00	0.29	322.87	5452.56	709.04	-277.16	761.01	0.80
5613.00	0.76	320.51	5545.56	709.70	-277.69	761.83	0.51
5707.00	1.28	322.55	5639.54	711.02	-278.73	763.44	0.55
5800.00	0.73	337.57	5732.53	712.39	-279.59	765.04	0.65
5894.00	1.47	335.16	5826.51	714.04	-280.32	766.85	0.79
5987.00	1.57	339.64	5919.48	716.31	-281.26	769.31	0.17
6080.00	1.06	321.51	6012.46	718.18	-282.24	771.41	0.70
6174.00	1.49	315.31	6106.43	719.73	-283.64	773.38	0.48
6267.00	0.88	336.27	6199.41	721.24	-284.78	775.22	0.79
6361.00	1.29	0.74	6293.40	722.96	-285.06	776.91	0.65
6454.00	2.03	346.28	6386.36	725.61	-285.44	779.50	0.91
6547.00	2.88	338.28	6479.27	729.38	-286.69	783.46	0.98
6641.00	2.64	330.47	6573.16	733.46	-288.63	787.97	0.47
6724.00	2.81	326.57	6656.07	736.82	-290.69	791.87	0.30
6742.00	3.05	326.89	6674.04	737.59	-291.20	792.77	1.33
6791.00	3.70	327.54	6722.96	740.01	-292.76	795.62	1.33
6822.00	3.60	325.50	6753.90	741.66	-293.85	797.56	0.53
6854.00	4.25	326.85	6785.82	743.48	-295.07	799.71	2.05
6886.00	6.08	334.67	6817.69	746.01	-296.44	802.57	6.11
6917.00	8.78	339.80	6848.43	749.71	-297.96	806.57	8.96
6949.00	12.30	342.79	6879.88	755.26	-299.81	812.40	11.13
6980.00	15.56	340.69	6909.97	762.34	-302.16	819.84	10.64
7012.00	18.15	336.10	6940.59	770.95	-305.60	829.11	9.09
7044.00	22.01	333.46	6970.64	780.87	-310.30	840.08	12.39
7075.00	25.96	333.33	6998.96	792.14	-315.95	852.65	12.74
7107.00	28.57	333.25	7027.40	805.23	-322.54	867.28	8.16
7139.00	31.36	334.41	7055.12	819.58	-329.58	883.23	8.90

7170.00	35.14	334.70	7081.04	834.92	-336.88	900.21	12.20
7202.00	37.25	335.80	7106.86	852.09	-344.78	919.10	6.90
7233.00	39.31	335.81	7131.20	869.60	-352.65	938.30	6.65
7265.00	41.87	338.06	7155.50	888.76	-360.80	959.11	9.21
7297.00	43.78	337.24	7178.97	908.88	-369.07	980.86	6.22
7328.00	48.31	337.54	7200.48	929.47	-377.65	1003.17	14.63
7360.00	52.20	338.74	7220.93	952.30	-386.80	1027.77	12.49
7392.00	56.01	338.03	7239.69	976.40	-396.35	1053.68	12.04
7423.00	57.43	337.70	7256.70	1000.40	-406.12	1079.59	4.67
7455.00	58.01	337.55	7273.79	1025.42	-416.42	1106.65	1.86
7486.00	59.92	336.03	7289.77	1049.83	-426.89	1133.20	7.46
7518.00	62.13	335.70	7305.28	1075.38	-438.33	1161.19	6.96
7550.00	63.95	335.93	7319.78	1101.39	-450.02	1189.70	5.72
7581.00	66.47	335.61	7332.78	1127.06	-461.57	1217.84	8.18
7613.00	71.00	335.33	7344.38	1154.18	-473.95	1247.64	14.18
7644.00	73.47	335.39	7353.84	1181.01	-486.25	1277.14	7.97
7676.00	75.14	335.29	7362.50	1209.01	-499.11	1307.94	5.23
7708.00	77.39	335.17	7370.09	1237.23	-512.13	1339.00	7.04
7739.00	78.28	334.75	7376.63	1264.68	-524.96	1369.28	3.16
7770.00	80.39	334.67	7382.36	1292.23	-537.97	1399.72	6.81
7803.00	82.93	334.83	7387.15	1321.76	-551.90	1432.34	7.71
7834.00	85.83	335.52	7390.18	1349.75	-564.85	1463.17	9.61
7866.00	89.31	335.15	7391.54	1378.80	-578.19	1495.12	10.94
7897.00	91.17	335.27	7391.41	1406.94	-591.18	1526.10	6.01
7908.00	91.23	335.38	7391.18	1416.94	-595.78	1537.09	1.14
8005.00	90.90	335.36	7389.38	1505.10	-636.19	1634.03	0.34
8100.00	90.73	335.19	7388.03	1591.38	-675.92	1728.97	0.25
8194.00	91.40	334.65	7386.28	1676.50	-715.76	1822.89	0.92
8289.00	92.86	333.36	7382.75	1761.83	-757.37	1917.68	2.05
8384.00	94.09	333.74	7376.99	1846.73	-799.60	2012.32	1.35
8479.00	95.55	333.21	7369.01	1931.42	-841.88	2106.79	1.63
8574.00	96.96	332.29	7358.66	2015.37	-885.12	2200.94	1.77
8669.00	98.31	333.01	7346.04	2099.00	-928.37	2294.81	1.61
8763.00	98.25	332.29	7332.50	2181.62	-971.11	2387.55	0.76
8858.00	97.12	331.68	7319.79	2264.74	-1015.33	2481.31	1.35
8953.00	95.83	330.80	7309.08	2347.48	-1060.75	2575.21	1.64
9048.00	94.54	330.49	7300.50	2429.95	-1107.13	2669.21	1.40
9143.00	92.97	330.80	7294.28	2512.57	-1153.59	2763.40	1.68
9238.00	91.62	331.10	7290.47	2595.55	-1199.69	2857.77	1.46
9333.00	90.95	332.49	7288.34	2679.24	-1244.57	2952.34	1.62
9428.00	90.00	332.57	7287.55	2763.53	-1288.39	3047.03	1.00
9523.00	90.84	334.77	7286.86	2848.66	-1330.52	3141.85	2.48
9617.00	91.06	336.51	7285.30	2934.28	-1369.29	3235.80	1.87
9712.00	90.78	337.17	7283.77	3021.61	-1406.65	3330.79	0.75
9807.00	90.73	337.61	7282.52	3109.30	-1443.17	3425.78	0.47
9902.00	90.73	338.42	7281.31	3197.39	-1478.73	3520.76	0.85
9997.00	90.78	339.20	7280.06	3285.96	-1513.07	3615.71	0.82
10092.00	90.90	339.81	7278.67	3374.93	-1546.32	3710.61	0.65
10187.00	90.90	340.11	7277.17	3464.17	-1578.87	3805.48	0.32
10282.00	90.84	340.47	7275.73	3553.59	-1610.91	3900.33	0.38
10377.00	90.95	340.65	7274.25	3643.17	-1642.52	3995.15	0.22
10471.00	90.78	340.70	7272.83	3731.86	-1673.63	4088.95	0.19

10566.00	90.90	341.29	7271.44	3821.67	-1704.56	4183.73	0.63
10661.00	91.01	341.41	7269.85	3911.67	-1734.94	4278.45	0.17
10756.00	90.67	342.15	7268.46	4001.90	-1764.64	4373.13	0.86
10851.00	90.50	343.24	7267.49	4092.59	-1792.89	4467.67	1.16
10946.00	90.50	343.87	7266.66	4183.70	-1819.79	4562.07	0.66
11041.00	91.40	344.91	7265.09	4275.18	-1845.34	4656.29	1.45
11136.00	93.30	345.25	7261.19	4366.90	-1869.78	4750.29	2.03
11230.00	97.12	345.16	7252.66	4457.39	-1893.68	4842.96	4.06
11288.00	99.39	344.85	7244.33	4512.83	-1908.53	4899.81	3.95
11383.00	101.98	344.02	7226.72	4602.75	-1933.58	4992.39	2.86
11476.00	105.77	343.28	7204.42	4689.37	-1958.98	5082.07	4.15
11570.00	105.34	341.73	7179.21	4775.74	-1986.21	5172.23	1.65
11664.00	104.20	340.98	7155.25	4861.86	-2015.27	5262.87	1.44
11759.00	102.68	340.28	7133.16	4949.02	-2045.91	5355.09	1.75
11855.00	102.51	339.28	7112.23	5036.94	-2078.29	5448.68	1.03
11949.00	102.15	338.86	7092.16	5122.71	-2111.10	5540.46	0.58
12044.00	101.34	338.43	7072.82	5209.33	-2144.97	5633.44	0.96
12139.00	100.68	337.78	7054.68	5295.86	-2179.74	5726.67	0.97
12234.00	100.65	337.64	7037.10	5382.24	-2215.15	5820.03	0.15
12329.00	100.05	337.35	7020.03	5468.58	-2250.93	5913.48	0.70
12399.00	99.71	336.92	7008.02	5532.12	-2277.72	5982.44	0.78
12442.00	99.71	336.92	7000.76	5571.11	-2294.34	6024.82	0.00