

WELL	Orchard Unit 30-2H	FIELD	CO, Mesa Co. (NAD83UTM13)	STRUCTURE	Encana 18-08S-96W (K18OU)
Magnetic Parameters	Model: BGGM 2010	Dip: 65.612°	Date: June 06, 2011	Surface Location	NAD83 UTM Zone 13N US Feet
	Mag Dec: 10.409°	FS: 52134.6m		Lat: N 39 20 46.309	North: 14304253.59 NUS
				Lon: W 108 9 19.152	East: 748307.34 NUS
					Grid Conv: -2.00171207°
					Scale Fact: 1.00051047
Miscellaneous	Site: OU 30-2H	TVD Ref: RKB(5409ft above MSL)			
	Plan: R1 09-Jun-11	Sny Date: June 06, 2011			

Quality Control
 Date Draw: June 14, 2011 10:45:20 AM
 Drawn by: Oswaldo Salazar
 Checked by:
 Close OK:

Proposal

Rev1

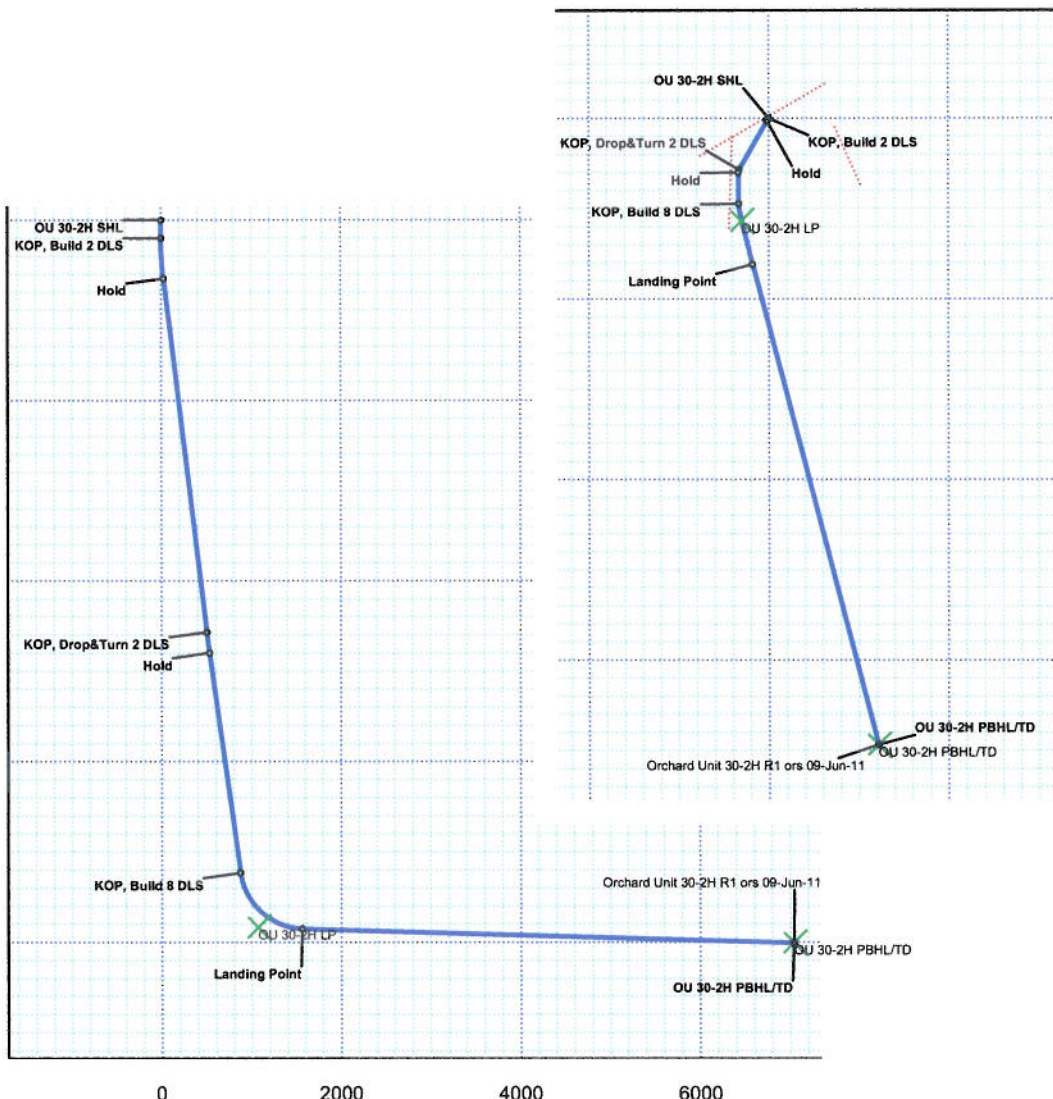
Critical Point	MD	INCL	AZIM	TVD	YSEC	Northing	East/West	DLS
OU 30-2H SHL	0.00	0.00	210.00	0.00	0.00	0.00	0.00	0.00
Marker Midline	31.00	0.00	210.00	31.00	0.00	0.00	0.00	0.00
KOP, Build 2 DLS	280.00	0.00	210.00	280.00	0.00	0.00	0.00	0.00
Hold	450.00	9.00	210.00	444.15	27.04	-30.54	-17.44	2.00
KOP, Drop&Turn 2 DLS	4420.73	9.00	210.00	4370.00	593.23	-568.49	-328.22	0.00
Hold	4850.49	8.08	179.28	4797.32	532.98	-400.22	-337.80	2.00
KOP, Build 8 DLS	7300.39	8.08	179.28	7231.80	874.22	-945.90	-332.67	0.00
Landing Point	8315.76	88.33	165.31	7649.64	1562.45	-1817.49	-177.89	8.00
OU 30-2H PBHL/TD	13815.76	88.33	165.31	8006.01	7041.34	-4935.58	1216.27	0.00



Grid North
 True North (M=12.4188°)
 Magnetic North (10.409°)
 Grid Conv (-2.00171207°)

<<< W Scale = 1(in):2000(ft) E >>>
 -2000 0 2000

TVD Scale = 1(in):2000(ft)
 0
 2000
 4000
 6000
 8000



<<< S Scale = 1(in):2000(ft) N >>>
 0
 -2000
 -4000
 -6000

Vertical Section (ft) Azim = 170.05°, Scale = 1(in):2000(ft) Origin = 0 N/-S, 0 E/-W

Orchard Unit 30-2H R1 ors 09-Jun-11 Proposal Report

(Def Plan)

Report Date: June 13, 2011 - 10:08 AM
 Client: Encana Oil & Gas (USA) Inc.
 Field: CO, Mesa County (NAD 83 UTM 13) EnCana 2010
 Structure / Slot: Encana 18-08S-96W (K18OU Pad) - Patterson 330 / OU 30-2H
 Well: Orchard Unit 30-2H
 Borehole: Original Hole
 UWI / API#: Unknown / Unknown
 Survey Name: Orchard Unit 30-2H R1 ors 09-Jun-11
 Survey Date: June 06, 2011
 Tort / AHD / DDI / ERD Ratio: 94.104 ° / 7222.777 ft / 6.069 / 0.902
 Coordinate Reference System: NAD83 UTM Zone 13N, US Feet
 Location Lat / Long: N 39° 20' 48.30920", W 108° 9' 19.15202"
 Location Grid N/E Y/X: N 14304253.589 RUS, E 748307.338 RUS
 CRS Grid Convergence Angle: -2.00171207 °
 Grid Scale Factor: 1.00051047

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 170.053 ° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB
 TVD Reference Elevation: 5409.000 ft above MSL
 Seabed / Ground Elevation: 5378.000 ft above MSL
 Magnetic Declination: 10.409 °
 Total Field Strength: 52134.626 nT
 Magnetic Dip Angle: 65.612 °
 Declination Date: June 06, 2011
 Magnetic Declination Model: BGGM 2010
 North Reference: Grid North
 Grid Convergence Used: -2.002 °
 Total Corr Mag North->Grid North: 12.411 °
 Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Tie-In	0.00	0.00	210.00	0.00	0.00	0.00	0.00	0.00	N/A	14304253.59	748307.34	N 39 20 46.31 W 108 9 19.15
Marker MudLine	31.00	0.00	210.00	31.00	0.00	0.00	0.00	0.00	0.00	14304253.59	748307.34	N 39 20 46.31 W 108 9 19.15
	100.00	0.00	210.00	100.00	0.00	0.00	0.00	0.00	0.00	14304253.59	748307.34	N 39 20 46.31 W 108 9 19.15
	200.00	0.00	210.00	200.00	0.00	0.00	0.00	0.00	0.00	14304253.59	748307.34	N 39 20 46.31 W 108 9 19.15
	300.00	2.00	210.00	299.98	1.34	-1.51	-0.87	2.00	14304252.08	748306.46	N 39 20 46.29 W 108 9 19.16	
	400.00	4.00	210.00	399.84	5.35	-6.04	-3.49	2.00	14304247.54	748303.85	N 39 20 46.25 W 108 9 19.19	
	500.00	6.00	210.00	499.45	12.03	-13.59	-7.85	2.00	14304239.99	748299.49	N 39 20 46.17 W 108 9 19.25	
	600.00	8.00	210.00	598.70	21.37	-24.14	-13.94	2.00	14304229.43	748293.39	N 39 20 46.07 W 108 9 19.32	
	650.00	9.00	210.00	648.15	27.04	-30.54	-17.64	2.00	14304223.03	748289.69	N 39 20 46.00 W 108 9 19.36	
	700.00	9.00	210.00	697.54	33.04	-37.32	-21.55	0.00	14304216.25	748285.78	N 39 20 45.93 W 108 9 19.41	
	800.00	9.00	210.00	796.30	45.03	-50.87	-29.37	0.00	14304202.70	748277.96	N 39 20 45.80 W 108 9 19.50	
EOC	900.00	9.00	210.00	895.07	57.02	-64.41	-37.19	0.00	14304189.14	748270.13	N 39 20 45.66 W 108 9 19.60	
	1000.00	9.00	210.00	993.84	69.01	-77.96	-45.01	0.00	14304175.59	748262.30	N 39 20 45.52 W 108 9 19.69	
	1100.00	9.00	210.00	1092.61	81.01	-91.51	-52.83	0.00	14304162.03	748254.48	N 39 20 45.39 W 108 9 19.78	
	1200.00	9.00	210.00	1191.38	93.00	-105.06	-60.65	0.00	14304148.48	748246.65	N 39 20 45.25 W 108 9 19.88	
	1300.00	9.00	210.00	1290.15	104.99	-118.60	-68.48	0.00	14304134.92	748238.83	N 39 20 45.11 W 108 9 19.97	
	1400.00	9.00	210.00	1388.92	116.99	-132.15	-76.30	0.00	14304121.37	748231.00	N 39 20 44.98 W 108 9 20.06	
	1500.00	9.00	210.00	1487.69	128.98	-145.70	-84.12	0.00	14304107.82	748223.18	N 39 20 44.84 W 108 9 20.16	
	1600.00	9.00	210.00	1586.46	140.97	-159.25	-91.94	0.00	14304094.26	748215.35	N 39 20 44.70 W 108 9 20.25	
	1700.00	9.00	210.00	1685.22	152.97	-172.80	-99.76	0.00	14304080.71	748207.52	N 39 20 44.57 W 108 9 20.34	
	1800.00	9.00	210.00	1783.99	164.96	-186.34	-107.58	0.00	14304067.15	748199.70	N 39 20 44.43 W 108 9 20.44	
KOP	1900.00	9.00	210.00	1882.76	176.95	-199.89	-115.41	0.00	14304053.60	748191.87	N 39 20 44.29 W 108 9 20.53	
	2000.00	9.00	210.00	1981.53	188.94	-213.44	-123.23	0.00	14304040.04	748184.05	N 39 20 44.16 W 108 9 20.62	
	2100.00	9.00	210.00	2080.30	200.94	-226.99	-131.05	0.00	14304026.49	748176.22	N 39 20 44.02 W 108 9 20.72	
	2200.00	9.00	210.00	2179.07	212.93	-240.53	-138.87	0.00	14304012.93	748168.40	N 39 20 43.89 W 108 9 20.81	
	2300.00	9.00	210.00	2277.84	224.92	-254.08	-146.69	0.00	14303999.38	748160.57	N 39 20 43.75 W 108 9 20.91	
	2400.00	9.00	210.00	2376.61	236.92	-267.63	-154.52	0.00	14303985.82	748152.74	N 39 20 43.61 W 108 9 21.00	
	2500.00	9.00	210.00	2475.38	248.91	-281.18	-162.34	0.00	14303972.27	748144.92	N 39 20 43.48 W 108 9 21.09	
	2600.00	9.00	210.00	2574.14	260.90	-294.72	-170.16	0.00	14303958.72	748137.09	N 39 20 43.34 W 108 9 21.19	
	2700.00	9.00	210.00	2672.91	272.89	-308.27	-177.98	0.00	14303945.16	748129.27	N 39 20 43.20 W 108 9 21.28	
	2800.00	9.00	210.00	2771.68	284.89	-321.82	-185.80	0.00	14303931.61	748121.44	N 39 20 43.07 W 108 9 21.37	
EOC #1 (3D-S)	2900.00	9.00	210.00	2870.45	296.88	-335.37	-193.62	0.00	14303918.05	748113.62	N 39 20 42.93 W 108 9 21.47	
	3000.00	9.00	210.00	2969.22	308.87	-348.91	-201.45	0.00	14303904.50	748105.79	N 39 20 42.79 W 108 9 21.56	
	3100.00	9.00	210.00	3067.99	320.87	-362.46	-209.27	0.00	14303890.94	748097.96	N 39 20 42.66 W 108 9 21.65	
	3200.00	9.00	210.00	3166.76	332.86	-376.01	-217.09	0.00	14303877.39	748090.14	N 39 20 42.52 W 108 9 21.75	
	3300.00	9.00	210.00	3265.53	344.85	-389.56	-224.91	0.00	14303863.83	748082.31	N 39 20 42.38 W 108 9 21.84	
	3400.00	9.00	210.00	3364.29	356.84	-403.10	-232.73	0.00	14303850.28	748074.49	N 39 20 42.25 W 108 9 21.93	
	3500.00	9.00	210.00	3463.06	368.84	-416.65	-240.55	0.00	14303836.72	748066.66	N 39 20 42.11 W 108 9 22.03	
	3600.00	9.00	210.00	3561.83	380.83	-430.20	-248.38	0.00	14303823.17	748058.84	N 39 20 41.97 W 108 9 22.12	
	3700.00	9.00	210.00	3660.60	392.82	-443.75	-256.20	0.00	14303809.62	748051.01	N 39 20 41.84 W 108 9 22.21	
	3800.00	9.00	210.00	3759.37	404.82	-457.30	-264.02	0.00	14303796.06	748043.18	N 39 20 41.70 W 108 9 22.31	
KOP	3900.00	9.00	210.00	3858.14	416.81	-470.84	-271.84	0.00	14303782.51	748035.36	N 39 20 41.56 W 108 9 22.40	
	4000.00	9.00	210.00	3956.91	428.80	-484.39	-279.66	0.00	14303768.95	748027.53	N 39 20 41.43 W 108 9 22.49	
	4100.00	9.00	210.00	4055.68	440.80	-497.94	-287.48	0.00	14303755.40	748019.71	N 39 20 41.29 W 108 9 22.59	
	4200.00	9.00	210.00	4154.45	452.79	-511.49	-295.31	0.00	14303741.84	748011.88	N 39 20 41.16 W 108 9 22.68	
	4300.00	9.00	210.00	4253.21	464.78	-525.03	-303.13	0.00	14303728.29	748004.06	N 39 20 41.02 W 108 9 22.77	
	4400.00	9.00	210.00	4351.98	476.77	-538.58	-310.95	0.00	14303714.73	747996.23	N 39 20 40.88 W 108 9 22.87	
	4500.00	9.00	210.00	4450.75	488.77	-552.13	-318.77	0.00	14303701.18	747988.40	N 39 20 40.75 W 108 9 22.96	
	4600.00	9.00	210.00	4549.52	500.76	-565.68	-326.59	0.00	14303687.63	747980.58	N 39 20 40.61 W 108 9 23.06	
	4700.00	9.00	210.00	4648.29	513.01	-579.30	-333.32	2.00	14303674.00	747978.96	N 39 20 40.47 W 108 9 23.13	
	4800.00	8.07	186.47	4747.33	526.08	-593.14	-336.65	2.00	14303660.14	747970.52	N 39 20 40.33 W 108 9 23.17	
EOC #2	4850.49	8.08	179.28	4797.32	532.98	-600.22	-337.00	2.00	14303653.07	747970.16	N 39 20 40.26 W 108 9 23.17	
	4900.00	8.08	179.28	4846.34	539.85	-607.18	-336.92	0.00	14303646.10	747970.25	N 39 20 40.20 W 108 9 23.17	
	5000.00	8.08	179.28	4945.35	553.73	-621.23	-336.74	0.00	14303632.04	747970.43	N 39 20 40.06 W 108 9 23.16	
	5100.00	8.08	179.28	5044.35	567.61	-635.29	-336.56	0.00	14303617.97	747970.60	N 39 20 39.92 W 108 9 23.15	
	5200.00	8.08	179.28	5143.36	581.49	-649.35	-336.39	0.00	14303603.91	747970.78	N 39 20 39.78 W 108 9 23.14	
	5300.00	8.08	179.28	5242.37	595.36	-663.41	-336.21	0.00	14303589.84	747970.96	N 39 20 39.64 W 108 9 23.13	
	5400.00	8.08	179.28	5341.37	609.24	-677.47	-336.03	0.00	14303575.78	747971.13	N 39 20 39.50 W 108 9 23.13	
	5500.00	8.08	179.28	5440.38	623.12	-691.53	-335.86	0.00	14303561.71	747971.31	N 39 20 39.36 W 108 9 23.12	
	5600.00	8.08	179.28	5539.39	637.00	-705.59	-335.68	0.00	14303547.64	747971.48	N 39 20 39.22 W 108 9 23.11	
	5700.00	8.08	179.28	5638.39	650.87	-719.64	-335.51	0.00	14303533.58	747971.66	N 39 20 39.09 W 108 9 23.10	
KOP #2	5800.00	8.08	179.28	5737.40	664.75	-733.70	-335.33	0.00	14303519.51	747971.84	N 39 20 38.95 W 108 9 23.09	
	5900.00	8.08	179.28	5836.41	678.63	-747.76	-335.15	0.00	14303505.45	747972.01	N 39 20 38.81 W 108 9 23.08	
	6000.00	8.08	179.28	5935.41	692.51	-761.82	-334.98	0.00	14303491.38	747972.19	N 39 20 38.67 W 108 9 23.07	
	6100.00	8.08	179.28	6034.42	706.38	-775.88	-334.80	0.00	14303477.32	747972.37	N 39 20 38.53 W 108 9 23.07	
	6200.00	8.08	179.28	6133.43	720.26	-789.94	-334.63	0.00	14303463.25	747972.54	N 39 20 38.39 W 108 9 23.06	
	6300.00	8.08	179.28	6232.43	734.14	-804.00	-334.45	0.00	14303449.19	747972.72	N 39 20 38.25 W 108 9 23.05	
	6400.00	8.08	179.28	6331.44	748.02	-818.05	-334.27	0.00	14303435.12	747972.90	N 39 20 38.11 W 108 9 23.04	
	6500.00	8.08	179.28	6430.45	761.89	-832.11	-334.10	0.00	14303421.05	747973.07	N 39 20 37.97 W 108 9 23.03	
	6600.00	8.08	179.28	6529.45	775.77	-846.17	-333.92	0.00	14303406.99	747973.25	N 39 20 37.84 W 108 9 23.02	
	6700.00	8.08	179.28	6628.46	789.65	-860.23	-333.74	0.00	14303392.92	747973.42	N 39 20 37.70 W 108 9 23.02	

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS ("/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
EOC #2	7600.00	31.14	168.52	7503.76	970.84	-1041.29	-317.24	8.00	14303211.77	747989.93	N 39 20 35.91	W 108 9 22.72
	7700.00	39.13	167.88	7585.47	1028.31	-1097.55	-305.34	8.00	14303155.48	748001.84	N 39 20 35.36	W 108 9 22.55
	7800.00	47.12	167.09	7658.40	1096.54	-1184.20	-290.40	8.00	14303088.80	748016.79	N 39 20 34.71	W 108 9 22.33
	7900.00	55.11	166.63	7721.13	1174.19	-1239.93	-272.69	8.00	14303013.03	748034.51	N 39 20 33.97	W 108 9 22.07
	8000.00	63.11	166.25	7772.43	1259.77	-1323.29	-252.58	8.00	14302929.63	748054.63	N 39 20 33.15	W 108 9 21.78
	8100.00	71.10	165.93	7811.30	1351.59	-1412.63	-230.45	8.00	14302840.24	748076.77	N 39 20 32.28	W 108 9 21.48
	8200.00	79.09	165.63	7837.00	1447.88	-1508.23	-206.72	8.00	14302746.59	748100.51	N 39 20 31.36	W 108 9 21.11
	8300.00	87.09	165.35	7849.02	1546.76	-1602.26	-181.88	8.00	14302650.51	748125.37	N 39 20 30.42	W 108 9 20.75
	8315.76	88.35	165.31	7849.64	1562.45	-1617.49	-177.89	8.00	14302635.27	748129.36	N 39 20 30.27	W 108 9 20.70
	8400.00	88.35	165.31	7852.07	1646.37	-1698.95	-156.53	0.00	14302553.78	748150.72	N 39 20 29.47	W 108 9 20.39
	8500.00	88.35	165.31	7854.95	1745.99	-1795.64	-131.19	0.00	14302457.04	748176.09	N 39 20 28.53	W 108 9 20.02
	8600.00	88.35	165.31	7857.83	1845.60	-1892.33	-105.84	0.00	14302360.30	748201.45	N 39 20 27.58	W 108 9 19.66
	8700.00	88.35	165.31	7860.71	1945.22	-1989.02	-80.49	0.00	14302263.56	748226.81	N 39 20 26.64	W 108 9 19.29
	8800.00	88.35	165.31	7863.59	2044.83	-2085.71	-55.14	0.00	14302166.82	748252.17	N 39 20 25.69	W 108 9 18.93
	8900.00	88.35	165.31	7866.47	2144.45	-2182.40	-29.79	0.00	14302070.08	748277.53	N 39 20 24.74	W 108 9 18.56
	9000.00	88.35	165.31	7869.35	2244.07	-2279.09	-4.44	0.00	14301973.34	748302.89	N 39 20 23.80	W 108 9 18.20
	9100.00	88.35	165.31	7872.22	2343.68	-2375.78	20.90	0.00	14301876.60	748328.25	N 39 20 22.85	W 108 9 17.83
	9200.00	88.35	165.31	7875.10	2443.30	-2472.47	46.25	0.00	14301779.86	748353.61	N 39 20 21.90	W 108 9 17.46
	9300.00	88.35	165.31	7877.98	2542.92	-2569.17	71.60	0.00	14301683.12	748378.98	N 39 20 20.96	W 108 9 17.10
	9400.00	88.35	165.31	7880.86	2642.53	-2665.86	96.95	0.00	14301586.38	748404.34	N 39 20 20.01	W 108 9 16.73
	9500.00	88.35	165.31	7883.74	2742.15	-2762.55	122.30	0.00	14301489.64	748429.70	N 39 20 19.06	W 108 9 16.37
	9600.00	88.35	165.31	7886.62	2841.76	-2859.24	147.65	0.00	14301392.90	748455.06	N 39 20 18.12	W 108 9 16.00
	9700.00	88.35	165.31	7889.50	2941.38	-2955.93	172.99	0.00	14301296.16	748480.42	N 39 20 17.17	W 108 9 15.64
	9800.00	88.35	165.31	7892.38	3041.00	-3052.62	198.34	0.00	14301199.42	748505.78	N 39 20 16.23	W 108 9 15.27
	9900.00	88.35	165.31	7895.26	3140.61	-3149.31	223.69	0.00	14301102.68	748531.14	N 39 20 15.28	W 108 9 14.91
	10000.00	88.35	165.31	7898.14	3240.23	-3246.00	249.04	0.00	14301005.94	748556.50	N 39 20 14.33	W 108 9 14.54
	10100.00	88.35	165.31	7901.02	3339.85	-3342.69	274.39	0.00	14300909.19	748581.87	N 39 20 13.39	W 108 9 14.18
	10200.00	88.35	165.31	7903.90	3439.46	-3439.39	299.74	0.00	14300812.45	748607.23	N 39 20 12.44	W 108 9 13.81
	10300.00	88.35	165.31	7906.78	3539.08	-3536.08	325.09	0.00	14300715.71	748632.59	N 39 20 11.49	W 108 9 13.45
	10400.00	88.35	165.31	7909.66	3638.69	-3632.77	350.43	0.00	14300618.97	748657.95	N 39 20 10.55	W 108 9 13.08
	10500.00	88.35	165.31	7912.54	3738.31	-3729.46	375.78	0.00	14300522.23	748683.31	N 39 20 9.60	W 108 9 12.71
	10600.00	88.35	165.31	7915.42	3837.93	-3826.15	401.13	0.00	14300425.49	748708.67	N 39 20 8.66	W 108 9 12.35
	10700.00	88.35	165.31	7918.29	3937.54	-3922.84	426.48	0.00	14300328.75	748734.03	N 39 20 7.71	W 108 9 11.98
	10800.00	88.35	165.31	7921.17	4037.16	-4019.53	451.83	0.00	14300232.01	748759.39	N 39 20 6.76	W 108 9 11.62
	10900.00	88.35	165.31	7924.05	4136.77	-4116.22	477.18	0.00	14300135.27	748784.76	N 39 20 5.82	W 108 9 11.25
	11000.00	88.35	165.31	7926.93	4236.39	-4212.91	502.52	0.00	14300038.53	748810.12	N 39 20 4.87	W 108 9 10.89
	11100.00	88.35	165.31	7929.81	4336.01	-4309.61	527.87	0.00	14299941.79	748835.48	N 39 20 3.92	W 108 9 10.52
	11200.00	88.35	165.31	7932.69	4435.62	-4406.30	553.22	0.00	14299845.05	748860.84	N 39 20 2.98	W 108 9 10.16
	11300.00	88.35	165.31	7935.57	4535.24	-4502.99	578.57	0.00	14299748.31	748886.20	N 39 20 2.03	W 108 9 9.79
	11400.00	88.35	165.31	7938.45	4634.86	-4599.68	603.92	0.00	14299651.57	748911.56	N 39 20 1.08	W 108 9 9.43
	11500.00	88.35	165.31	7941.33	4734.47	-4696.37	629.27	0.00	14299554.83	748936.92	N 39 20 0.14	W 108 9 9.06
	11600.00	88.35	165.31	7944.21	4834.09	-4793.06	654.61	0.00	14299458.09	748962.29	N 39 19 59.19	W 108 9 8.70
	11700.00	88.35	165.31	7947.09	4933.70	-4889.75	679.96	0.00	14299361.35	748987.65	N 39 19 58.25	W 108 9 8.33
	11800.00	88.35	165.31	7949.97	5033.32	-4986.44	705.31	0.00	14299264.61	749013.01	N 39 19 57.30	W 108 9 7.96
	11900.00	88.35	165.31	7952.85	5132.94	-5083.13	730.66	0.00	14299167.87	749038.37	N 39 19 56.35	W 108 9 7.60
	12000.00	88.35	165.31	7955.73	5232.55	-5179.83	756.01	0.00	14299071.13	749063.73	N 39 19 55.41	W 108 9 7.23
	12100.00	88.35	165.31	7958.61	5332.17	-5276.52	781.36	0.00	14298974.39	749089.09	N 39 19 54.46	W 108 9 6.87
	12200.00	88.35	165.31	7961.49	5431.79	-5373.21	806.70	0.00	14298877.65	749114.45	N 39 19 53.51	W 108 9 6.50
	12300.00	88.35	165.31	7964.37	5531.40	-5469.90	832.05	0.00	14298780.91	749139.81	N 39 19 52.57	W 108 9 6.14
	12400.00	88.35	165.31	7967.24	5631.02	-5566.59	857.40	0.00	14298684.17	749165.18	N 39 19 51.62	W 108 9 5.77
	12500.00	88.35	165.31	7970.12	5730.63	-5663.28	882.75	0.00	14298587.43	749190.54	N 39 19 50.68	W 108 9 5.41
	12600.00	88.35	165.31	7973.00	5830.25	-5759.97	908.10	0.00	14298490.69	749215.90	N 39 19 49.73	W 108 9 5.04
	12700.00	88.35	165.31	7975.88	5929.87	-5856.66	933.45	0.00	14298393.95	749241.26	N 39 19 48.78	W 108 9 4.68
	12800.00	88.35	165.31	7978.76	6029.48	-5953.35	958.80	0.00	14298297.21	749266.62	N 39 19 47.84	W 108 9 4.31
	12900.00	88.35	165.31	7981.64	6129.10	-6050.05	984.14	0.00	14298200.47	749291.98	N 39 19 46.89	W 108 9 3.95
	13000.00	88.35	165.31	7984.52	6228.72	-6146.74	1009.49	0.00	14298103.73	749317.34	N 39 19 45.94	W 108 9 3.58
	13100.00	88.35	165.31	7987.40	6328.33	-6243.43	1034.84	0.00	14298006.99	749342.70	N 39 19 45.00	W 108 9 3.22
	13200.00	88.35	165.31	7990.28	6427.95	-6340.12	1060.19	0.00	14297910.25	749368.07	N 39 19 44.05	W 108 9 2.85
	13300.00	88.35	165.31	7993.16	6527.56	-6436.81	1085.54	0.00	14297813.51	749393.43	N 39 19 43.10	W 108 9 2.49
	13400.00	88.35	165.31	7996.04	6627.18	-6533.50	1110.89	0.00	14297716.77	749418.79	N 39 19 42.16	W 108 9 2.12
	13500.00	88.35	165.31	7998.92	6726.80	-6630.19	1136.23	0.00	14297620.03	749444.15	N 39 19 41.21	W 108 9 1.75
	13600.00	88.35	165.31	8001.80	6826.41	-6726.88	1161.58	0.00	14297523.29	749469.51	N 39 19 40.27	W 108 9 1.39
	13700.00	88.35	165.31	8004.68	6926.03	-6823.57	1186.93	0.00	14297426.55	749494.87	N 39 19 39.32	W 108 9 1.02
	13800.00	88.35	165.31	8007.56	7025.64	-6920.27	1212.28	0.00	14297329.81	749520.23	N 39 19 38.37	W 108 9 0.66
OU 30-2H PBHL/TD	13815.76	88.35	165.31	8008.01	7041.34	-6935.50	1216.27	0.00	14297314.56	749524.23	N 39 19 38.22	W 108 9 0.60

Survey Type: Def Plan

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma

Survey Program:

Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Survey Tool Type	Borehole / Survey
	0.000	31.000	1/100.000	SLB_MWD-STD-Depth Only	Original Hole / Orchard Unit 30-2H R1 ors 09-Jun-11
	31.000	13815.759	1/100.000	SLB_MWD-STD	Original Hole / Orchard Unit 30-2H R1 ors 09-Jun-11