

WELL Orchard Unit 19-10H	FIELD CO, Mesa Co.(NAD83UTM13)	STRUCTURE Encana 18-08S-96W (K18OU)
Magnetic Parameters Model: BGGM 2010 Dip: 65.612° Mag Dec: 10.409° Date: June 06, 2011 FS: 52134.6mT	Surface Location Lat: N 39 20 46.432 Lon: W 106 9 19.006 Northing: 14304265.56 RUS Easting: 748319.08 RUS NAD83 UTM Zone 13N, US Feet Grid Conv: -2.00168611° Scale Fact: 1.00051044	Miscellaneous Sct: OU 19-10H Plan: R1 ors 09-Jun-11 TVD Ref: RKB(54098 above MSL) Srvy Date: June 06, 2011

Quality Control
Dwg Drawn: June 14, 2011 09:47:29 AM
Drawn by: Oswald Salazar
Checked by:
Clear OK:

Proposal



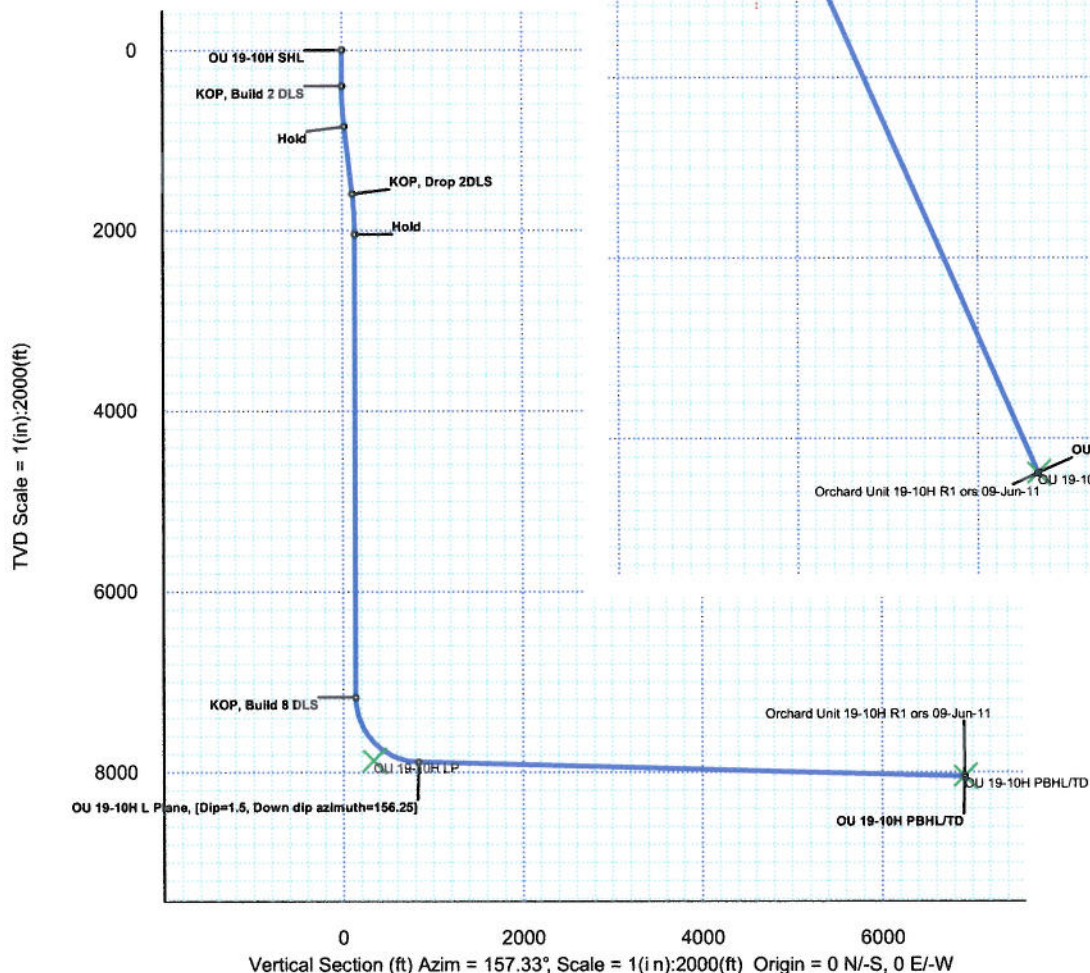
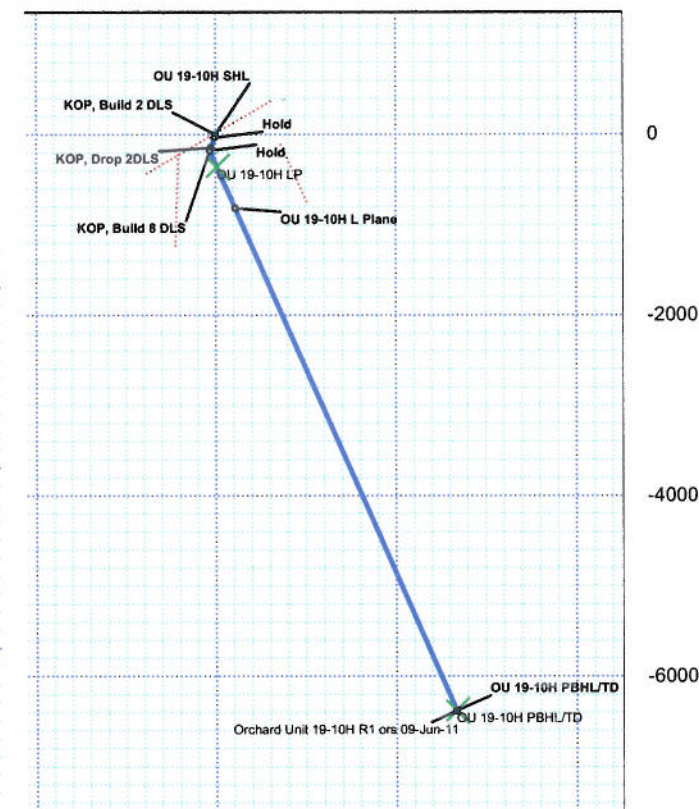
Rev1



Grid North
Tot Cor (M-G 12.4108°)
Mag Dec (10.409°)
Grid Conv (-2.00168611°)

Critical Points									
Critical Point	MD	INCL	AZIM	TYD	YSEC	N(+) / S(-)	E(+) / W(-)	DLS	
OU 19-10H SHL	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	
Marker ModLine	31.00	0.00	200.00	31.00	0.00	0.00	0.00	0.00	
KOP, Build 2 DLS	400.00	0.00	200.00	400.00	0.00	0.00	0.00	0.00	
Hold	850.00	9.00	200.00	848.15	25.93	-33.14	-12.06	2.00	
KOP, Drop 2DLS	1605.00	9.00	200.00	1593.86	112.77	-144.13	-52.46	0.00	
Hold	2055.00	0.00	200.00	2042.01	138.71	-177.27	-64.52	2.00	
KOP, Build 8 DLS	7180.99	0.00	200.00	7168.00	138.71	-177.27	-64.52	0.00	
OU 19-10H L Plane, [Dip=1.5, Down dip azimuth=156.25]	8287.08	88.50	156.25	7883.84	835.93	-815.54	216.38	8.00	
OU 19-10H PBHL/TD	14369.29	88.50	156.25	8043.01	6914.97	-6380.69	2665.26	0.00	

<<< W Scale = 1(in):2000(ft) E >>>
0 2000 4000



Vertical Section (ft) Azim = 157.33°; Scale = 1(in):2000(ft) Origin = 0 N-/S, 0 E-/W

Orchard Unit 19-10H R1 ors 09-Jun-11 Proposal Report

(Def Plan)

Report Date: June 10, 2011 - 10:04 AM
 Client: Encana Oil & Gas (USA) Inc.
 Field: CO, Mesa County (NAD 83 UTM 13) EnCana 2010
 Structure / Slot: Encana 19-08S-96W (K18OU Pad) - Patterson 330 / OU 19-10H
 Well: Orchard Unit 19-10H
 Borehole: Original Hole
 UWI / API#: Unknown / Unknown
 Survey Name: Orchard Unit 19-10H R1 ors 09-Jun-11
 Survey Date: June 06, 2011
 Tort / AHD / DDI / ERD Ratio: 106.506 * / 6966.123 ft / 6.122 / 0.866
 Coordinate Reference System: NAD83 UTM Zone 13N, US Feet
 Location Lat / Long: N 39° 20' 46.43160", W 108° 9' 19.00802"
 Location Grid N/E Y/X: N 14304265.577 RUS, E 748319.082 RUS
 CRS Grid Convergence Angle: -2.00168811 *
 Grid Scale Factor: 1.00051044

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 157.329 * (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: 52134.650 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	200.00	0.00	0.00	0.00	0.00	N/A	14304265.58	748319.08	N 39 20 46.43 W 108 9 19.01	
Marker MudLine	31.00	0.00	200.00	31.00	0.00	0.00	0.00	0.00	14304265.58	748319.08	N 39 20 46.43 W 108 9 19.01	
	100.00	0.00	200.00	100.00	0.00	0.00	0.00	0.00	14304265.58	748319.08	N 39 20 46.43 W 108 9 19.01	
	200.00	0.00	200.00	200.00	0.00	0.00	0.00	0.00	14304265.58	748319.08	N 39 20 46.43 W 108 9 19.01	
	300.00	0.00	200.00	300.00	0.00	0.00	0.00	0.00	14304265.58	748319.08	N 39 20 46.43 W 108 9 19.01	
	400.00	0.00	200.00	400.00	0.00	0.00	0.00	0.00	14304265.58	748319.08	N 39 20 46.43 W 108 9 19.01	
KOP	500.00	2.00	200.00	499.98	1.28	-1.84	-0.80	2.00	14304263.94	748318.48	N 39 20 46.42 W 108 9 19.01	
	600.00	4.00	200.00	599.84	5.13	-6.56	-2.39	2.00	14304259.02	748316.69	N 39 20 46.37 W 108 9 19.04	
	700.00	6.00	200.00	699.45	11.54	-14.75	-5.37	2.00	14304250.82	748313.71	N 39 20 46.28 W 108 9 19.07	
	800.00	8.00	200.00	798.70	20.50	-26.20	-9.54	2.00	14304239.36	748309.54	N 39 20 46.17 W 108 9 19.12	
	850.00	9.00	200.00	848.15	25.93	-33.14	-12.06	2.00	14304232.42	748307.01	N 39 20 46.10 W 108 9 19.15	
EOC	900.00	9.00	200.00	897.54	31.68	-40.49	-14.74	0.00	14304225.06	748304.34	N 39 20 46.03 W 108 9 19.18	
	1000.00	9.00	200.00	996.30	43.19	-55.19	-20.09	0.00	14304210.36	748298.98	N 39 20 45.88 W 108 9 19.24	
	1100.00	9.00	200.00	1095.07	54.89	-69.89	-25.44	0.00	14304195.65	748293.63	N 39 20 45.73 W 108 9 19.30	
	1200.00	9.00	200.00	1193.84	66.19	-84.59	-30.79	0.00	14304180.94	748288.28	N 39 20 45.59 W 108 9 19.36	
	1300.00	9.00	200.00	1292.61	77.69	-99.29	-36.14	0.00	14304166.23	748282.92	N 39 20 45.44 W 108 9 19.42	
KOP	1400.00	9.00	200.00	1391.38	89.19	-113.99	-41.49	0.00	14304151.53	748277.57	N 39 20 45.29 W 108 9 19.49	
	1500.00	9.00	200.00	1490.15	100.70	-128.69	-46.84	0.00	14304136.82	748272.22	N 39 20 45.14 W 108 9 19.55	
	1600.00	9.00	200.00	1588.92	112.20	-143.39	-52.19	0.00	14304122.11	748266.86	N 39 20 45.00 W 108 9 19.61	
	1605.00	9.00	200.00	1593.86	112.77	-144.13	-52.46	0.00	14304121.37	748266.80	N 39 20 44.99 W 108 9 19.61	
	1700.00	7.10	200.00	1687.92	122.55	-156.63	-57.01	2.00	14304108.87	748262.04	N 39 20 44.86 W 108 9 19.66	
EOC	1800.00	5.10	200.00	1787.34	130.37	-166.61	-60.64	2.00	14304098.88	748258.41	N 39 20 44.78 W 108 9 19.71	
	1900.00	3.10	200.00	1887.08	135.62	-173.33	-63.09	2.00	14304092.16	748255.96	N 39 20 44.70 W 108 9 19.73	
	2000.00	1.10	200.00	1987.01	138.32	-176.78	-64.34	2.00	14304088.71	748254.71	N 39 20 44.66 W 108 9 19.75	
	2055.00	0.00	200.00	2042.01	138.71	-177.27	-64.52	2.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	2100.00	0.00	200.00	2087.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
KOP	2200.00	0.00	200.00	2187.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	2300.00	0.00	200.00	2287.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	2400.00	0.00	200.00	2387.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	2500.00	0.00	200.00	2487.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	2600.00	0.00	200.00	2587.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	2700.00	0.00	200.00	2687.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	2800.00	0.00	200.00	2787.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	2900.00	0.00	200.00	2887.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	3000.00	0.00	200.00	2987.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	3100.00	0.00	200.00	3087.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	3200.00	0.00	200.00	3187.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	3300.00	0.00	200.00	3287.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	3400.00	0.00	200.00	3387.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	3500.00	0.00	200.00	3487.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	3600.00	0.00	200.00	3587.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	3700.00	0.00	200.00	3687.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	3800.00	0.00	200.00	3787.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	3900.00	0.00	200.00	3887.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	4000.00	0.00	200.00	3987.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	4100.00	0.00	200.00	4087.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	4200.00	0.00	200.00	4187.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	4300.00	0.00	200.00	4287.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	4400.00	0.00	200.00	4387.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	4500.00	0.00	200.00	4487.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	4600.00	0.00	200.00	4587.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	4700.00	0.00	200.00	4687.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	4800.00	0.00	200.00	4787.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	4900.00	0.00	200.00	4887.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	5000.00	0.00	200.00	4987.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	5100.00	0.00	200.00	5087.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	5200.00	0.00	200.00	5187.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	5300.00	0.00	200.00	5287.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	5400.00	0.00	200.00	5387.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	5500.00	0.00	200.00	5487.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	5600.00	0.00	200.00	5587.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	5700.00	0.00	200.00	5687.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	5800.00	0.00	200.00	5787.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	5900.00	0.00	200.00	5887.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	6000.00	0.00	200.00	5987.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	6100.00	0.00	200.00	6087.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	6200.00	0.00	200.00	6187.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	6300.00	0.00	200.00	6287.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	6400.00	0.00	200.00	6387.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	6500.00	0.00	200.00	6487.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	6600.00	0.00	200.00	6587.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	
	6700.00	0.00	200.00	6687.01	138.71	-177.27	-64.52	0.00	14304088.21	748254.53	N 39 20 44.66 W 108 9 19.75	

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 ° ' ")
	7600.00	33.53	156.25	7563.50	257.82	-286.31	-16.53	8.00	14303979.12	748302.54	N 39 20 43.60	W 108 9 19.09
	7700.00	41.53	156.25	7642.75	318.67	-342.02	7.98	8.00	14303923.39	748327.07	N 39 20 43.06	W 108 9 18.75
	7800.00	49.53	156.25	7712.75	389.96	-407.28	36.70	8.00	14303858.09	748355.80	N 39 20 42.42	W 108 9 18.36
	7900.00	57.53	156.25	7772.14	470.29	-480.82	69.07	8.00	14303784.51	748388.19	N 39 20 41.71	W 108 9 17.92
	8000.00	65.53	156.25	7819.77	558.11	-561.22	104.45	8.00	14303704.08	748423.58	N 39 20 40.92	W 108 9 17.43
	8100.00	73.53	156.25	7854.71	651.70	-646.89	142.16	8.00	14303618.35	748461.31	N 39 20 40.09	W 108 9 16.91
	8200.00	81.53	156.25	7876.28	749.25	-736.19	181.46	8.00	14303529.01	748500.63	N 39 20 39.22	W 108 9 16.37
OU 19-10H L Plane, [Dip=1.5, Down dip azimuth=156.25]	8287.08	88.50	156.25	7883.84	835.93	-815.54	216.38	8.00	14303449.82	748535.57	N 39 20 38.45	W 108 9 15.89
	8300.00	88.50	156.25	7884.18	848.85	-827.37	221.58	0.00	14303437.79	748540.78	N 39 20 38.34	W 108 9 15.82
	8400.00	88.50	156.25	7886.80	948.79	-918.86	261.85	0.00	14303346.25	748581.06	N 39 20 37.45	W 108 9 15.27
	8500.00	88.50	156.25	7889.41	1048.74	-1010.36	302.12	0.00	14303254.70	748621.35	N 39 20 36.56	W 108 9 14.72
	8600.00	88.50	156.25	7892.03	1148.69	-1101.86	342.38	0.00	14303163.16	748661.64	N 39 20 35.87	W 108 9 14.16
	8700.00	88.50	156.25	7894.65	1248.64	-1193.35	382.65	0.00	14303071.62	748701.93	N 39 20 34.78	W 108 9 13.61
	8800.00	88.50	156.25	7897.26	1348.58	-1284.85	422.92	0.00	14302980.07	748742.21	N 39 20 33.89	W 108 9 13.06
	8900.00	88.50	156.25	7899.88	1448.53	-1376.35	463.18	0.00	14302888.53	748782.50	N 39 20 33.00	W 108 9 12.50
	9000.00	88.50	156.25	7902.50	1548.48	-1467.85	503.45	0.00	14302796.98	748822.79	N 39 20 32.11	W 108 9 11.95
	9100.00	88.50	156.25	7905.12	1648.43	-1559.34	543.71	0.00	14302705.44	748863.07	N 39 20 31.22	W 108 9 11.40
	9200.00	88.50	156.25	7907.73	1748.38	-1650.84	583.98	0.00	14302613.90	748903.36	N 39 20 30.33	W 108 9 10.85
	9300.00	88.50	156.25	7910.35	1848.32	-1742.34	624.25	0.00	14302522.35	748943.65	N 39 20 29.44	W 108 9 10.29
	9400.00	88.50	156.25	7912.97	1948.27	-1833.84	664.51	0.00	14302430.81	748983.93	N 39 20 28.55	W 108 9 9.74
	9500.00	88.50	156.25	7915.58	2048.22	-1925.33	704.78	0.00	14302339.26	749024.22	N 39 20 27.66	W 108 9 9.19
	9600.00	88.50	156.25	7918.20	2148.17	-2016.83	745.04	0.00	14302247.72	749064.50	N 39 20 26.77	W 108 9 8.63
	9700.00	88.50	156.25	7920.82	2248.12	-2108.33	785.31	0.00	14302156.17	749104.79	N 39 20 25.88	W 108 9 8.08
	9800.00	88.50	156.25	7923.43	2348.06	-2199.83	825.57	0.00	14302064.63	749145.08	N 39 20 24.99	W 108 9 7.53
	9900.00	88.50	156.25	7926.05	2448.01	-2291.33	865.84	0.00	14301973.09	749185.36	N 39 20 24.10	W 108 9 6.98
	10000.00	88.50	156.25	7928.67	2547.96	-2382.82	906.10	0.00	14301881.54	749225.65	N 39 20 23.21	W 108 9 6.42
	10100.00	88.50	156.25	7931.29	2647.91	-2474.32	946.37	0.00	14301790.00	749265.93	N 39 20 22.32	W 108 9 5.87
	10200.00	88.50	156.25	7933.90	2747.86	-2565.82	986.63	0.00	14301698.45	749306.22	N 39 20 21.43	W 108 9 5.32
	10300.00	88.50	156.25	7936.52	2847.80	-2657.32	1026.90	0.00	14301606.91	749346.50	N 39 20 20.54	W 108 9 4.76
	10400.00	88.50	156.25	7939.14	2947.75	-2748.82	1067.16	0.00	14301515.36	749386.79	N 39 20 19.65	W 108 9 4.21
	10500.00	88.50	156.25	7941.75	3047.70	-2840.31	1107.43	0.00	14301423.82	749427.07	N 39 20 18.76	W 108 9 3.66
	10600.00	88.50	156.25	7944.37	3147.65	-2931.81	1147.69	0.00	14301332.27	749467.36	N 39 20 17.87	W 108 9 3.11
	10700.00	88.50	156.25	7946.99	3247.60	-3023.31	1187.96	0.00	14301240.73	749507.64	N 39 20 16.98	W 108 9 2.55
	10800.00	88.50	156.25	7949.60	3347.54	-3114.81	1228.22	0.00	14301149.18	749547.93	N 39 20 16.09	W 108 9 2.00
	10900.00	88.50	156.25	7952.22	3447.49	-3206.31	1268.48	0.00	14301057.64	749588.21	N 39 20 15.20	W 108 9 1.45
	11000.00	88.50	156.25	7954.84	3547.44	-3297.81	1308.75	0.00	14300966.09	749628.49	N 39 20 14.31	W 108 9 0.90
	11100.00	88.50	156.25	7957.46	3647.39	-3389.31	1349.01	0.00	14300874.55	749668.78	N 39 20 13.42	W 108 9 0.34
	11200.00	88.50	156.25	7960.07	3747.34	-3480.80	1389.27	0.00	14300783.00	749709.06	N 39 20 12.53	W 108 8 59.79
	11300.00	88.50	156.25	7962.69	3847.28	-3572.30	1429.54	0.00	14300691.46	749749.35	N 39 20 11.64	W 108 8 59.24
	11400.00	88.50	156.25	7965.31	3947.23	-3663.80	1469.80	0.00	14300599.91	749789.63	N 39 20 10.75	W 108 8 58.68
	11500.00	88.50	156.25	7967.92	4047.18	-3755.30	1510.06	0.00	14300508.37	749829.91	N 39 20 9.86	W 108 8 58.13
	11600.00	88.50	156.25	7970.54	4147.13	-3846.80	1550.33	0.00	14300416.82	749870.20	N 39 20 8.97	W 108 8 57.58
	11700.00	88.50	156.25	7973.16	4247.07	-3938.30	1590.59	0.00	14300325.28	749910.48	N 39 20 8.08	W 108 8 57.03
	11800.00	88.50	156.25	7975.77	4347.02	-4029.80	1630.85	0.00	14300233.73	749950.76	N 39 20 7.19	W 108 8 56.47
	11900.00	88.50	156.25	7978.39	4446.97	-4121.30	1671.11	0.00	14300142.18	749991.04	N 39 20 6.30	W 108 8 55.92
	12000.00	88.50	156.25	7981.01	4546.92	-4212.80	1711.38	0.00	14300050.64	750031.33	N 39 20 5.41	W 108 8 55.37
	12100.00	88.50	156.25	7983.62	4646.87	-4304.30	1751.64	0.00	14299959.09	750071.61	N 39 20 4.52	W 108 8 54.82
	12200.00	88.50	156.25	7986.24	4746.81	-4395.80	1791.90	0.00	14299867.55	750111.89	N 39 20 3.63	W 108 8 54.26
	12300.00	88.50	156.25	7988.86	4846.76	-4487.29	1832.16	0.00	14299776.00	750152.17	N 39 20 2.74	W 108 8 53.71
	12400.00	88.50	156.25	7991.48	4946.71	-4578.79	1872.42	0.00	14299684.45	750192.46	N 39 20 1.85	W 108 8 53.16
	12500.00	88.50	156.25	7994.09	5046.66	-4670.29	1912.68	0.00	14299592.91	750232.74	N 39 20 0.96	W 108 8 52.60
	12600.00	88.50	156.25	7996.71	5146.61	-4761.79	1952.95	0.00	14299501.36	750273.02	N 39 20 0.07	W 108 8 52.05
	12700.00	88.50	156.25	7999.33	5246.55	-4853.29	1993.21	0.00	14299409.82	750313.30	N 39 19 59.18	W 108 8 51.50
	12800.00	88.50	156.25	8001.94	5346.50	-4944.79	2033.47	0.00	14299318.27	750353.58	N 39 19 58.29	W 108 8 50.95
	12900.00	88.50	156.25	8004.56	5446.45	-5036.29	2073.73	0.00	14299226.72	750393.87	N 39 19 57.40	W 108 8 50.39
	13000.00	88.50	156.25	8007.18	5546.40	-5127.79	2113.99	0.00	14299135.18	750434.15	N 39 19 56.51	W 108 8 49.84
	13100.00	88.50	156.25	8009.79	5646.35	-5219.29	2154.25	0.00	14299043.63	750474.43	N 39 19 55.62	W 108 8 49.29
	13200.00	88.50	156.25	8012.41	5746.29	-5310.79	2194.51	0.00	14298952.08	750514.71	N 39 19 54.73	W 108 8 48.74
	13300.00	88.50	156.25	8015.03	5846.24	-5402.29	2234.77	0.00	14298860.54	750554.99	N 39 19 53.84	W 108 8 48.18
	13400.00	88.50	156.25	8017.64	5946.19	-5493.79	2275.03	0.00	14298768.99	750595.27	N 39 19 52.95	W 108 8 47.63
	13500.00	88.50	156.25	8020.26	6046.14	-5585.29	2315.29	0.00	14298677.44	750635.55	N 39 19 52.06	W 108 8 47.08
	13600.00	88.50	156.25	8022.88	6146.09	-5676.79	2355.55	0.00	14298585.90	750675.83	N 39 19 51.17	W 108 8 46.53
	13700.00	88.50	156.25	8025.50	6246.04	-5768.29	2395.81	0.00	14298494.35	750716.11	N 39 19 50.28	W 108 8 45.97
	13800.00	88.50	156.25	8028.11	6345.98	-5859.79	2436.07	0.00	14298402.80	750756.39	N 39 19 49.39	W 108 8 45.42
	13900.00	88.50	156.25	8030.73	6445.93	-5951.29	2476.33	0.00	14298311.26	750796.67	N 39 19 48.50	W 108 8 44.87
	14000.00	88.50	156.25	8033.35	6545.88	-6042.79	2516.59	0.00	14298219.71	750836.95	N 39 19 47.61	W 108 8 44.32
	14100.00	88.50	156.25	8035.96	6645.83	-6134.29	2556.85	0.00	14298128.16	750877.23	N 39 19 46.72	W 108 8 43.76
	14200.00	88.50	156.25	8038.58	6745.78	-6225.79	2597.11	0.00	14298036.62	750917.51	N 39 19 45.83	W 108 8 43.21
	14300.00	88.50	156.25	8041.20	6845.72	-6317.29	2637.37	0.00	14297945.07	750957.79	N 39 19 44.94	W 108 8 42.66
OU 19-10H PBHL/TD	14369.29	88.50	156.25	8043.01	6914.97	-6380.69	2665.26	0.00	14297851.64	750985.70	N 39 19 44.32	W 108 8 42.27

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 19-10H R1 ors 09-Jun-11
	31.000	14369.288	1/100.000	SLB_MWD-STD	Original Hole / Orchard Unit 19-10H R1 ors 09-Jun-11