

MAR 24 2004

Schlumberger

ChevronTexaco Ft Liard 3K-29 Final Survey Report

Report Date: March 1, 2004
Client: CHEVRON CANADA RESOURCES
Field: FT. LIARD(CDN-NAD27)
Structure / Slot: Chevron K-29 PAD / Job#4000 3-K29
Well: 3K-29
Borehole: 3-K29 Hole 1
UWI/API#:
Survey Name / Date: 3K-29 Dmag Corrected / January 28, 2004
Tort / AHD / DDI / ERD ratio: 301.427° / 2001.20 m / 6.443 / 0.757
Grid Coordinate System: NAD27 UTM Zone 10N
Location Lat/Long: N 60 28 42.337, W 123 35 3.406
Location Grid N/E Y/X: N 6704631.490 m, E 467880.970 m
Grid Convergence Angle: -0.50842687°
Grid Scale Factor: 0.99961264

Survey / DLS Computation Method: Minimum Curvature / Lubinski
Vertical Section Azimuth: 155.940°
Vertical Section Origin: N 0.000 m, E 0.000 m
TVD Reference Datum: KB
TVD Reference Elevation: 416.9 m relative to MSL
Sea Bed / Ground Level Elevation: 409.900 m relative to MSL
Magnetic Declination: 24.498°
Total Field Strength: 58727.218 nT
Magnetic Dip: 78.548°
Declination Date: January 28, 2004
Magnetic Declination Model: BGGM 2003
North Reference: True North
Total Corr Mag North -> True North: +24.498°
Local Coordinates Referenced To: Well Head

Comments	Measured Depth (m)	Inclination (deg)	Azimuth (deg)	TVD (m)	Vertical Section (m)	NS (m)	EW (m)	Closure (m)	Closure Azimuth (deg)	DLS (deg/30 m)	Tool Face (deg)
Tie-In	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-132.81M
Mud Line	7.00	0.05	227.19	7.00	0.00	0.00	0.00	0.00	227.19	0.22	-132.81M
	75.15	0.54	227.19	75.15	0.11	-0.24	-0.26	0.35	227.19	0.22	-151.57M
	103.90	0.64	208.43	103.90	0.26	-0.47	-0.44	0.64	222.59	0.23	-171.89M
	132.60	0.66	188.11	132.60	0.49	-0.78	-0.54	0.94	214.51	0.24	-108.35M
	156.30	1.69	251.65	156.29	0.57	-1.02	-0.89	1.35	220.88	1.92	-111.40M
	184.30	1.98	248.60	184.28	0.51	-1.33	-1.73	2.18	232.42	0.33	-109.46M
	211.53	2.52	250.54	211.49	0.44	-1.70	-2.73	3.22	238.08	0.60	-102.96M
	223.00	2.49	257.04	222.94	0.37	-1.84	-3.21	3.70	240.17	0.75	-106.84M
	232.40	2.39	253.16	232.34	0.31	-1.94	-3.60	4.09	241.62	0.62	-113.73M
	241.80	2.11	246.27	241.73	0.28	-2.07	-3.94	4.45	242.31	1.24	-117.33M
	250.90	1.64	242.67	250.82	0.29	-2.20	-4.21	4.75	242.46	1.60	-148.63M
	260.10	1.08	211.37	260.02	0.35	-2.33	-4.38	4.96	241.94	2.97	169.13M
	269.20	1.62	169.13	269.12	0.52	-2.53	-4.40	5.07	240.06	3.61	151.45M
	278.10	2.18	151.45	278.01	0.81	-2.80	-4.29	5.13	236.84	2.71	138.74M
	287.30	2.97	138.74	287.20	1.21	-3.14	-4.05	5.12	232.25	3.16	135.68M
	306.00	3.58	135.68	305.87	2.22	-3.92	-3.32	5.14	220.30	1.02	138.28M
	315.80	4.23	138.28	315.65	2.85	-4.41	-2.87	5.26	213.06	2.06	135.25M
	325.20	4.70	135.25	325.02	3.55	-4.94	-2.37	5.48	205.60	1.68	139.26M
	334.80	5.04	139.26	334.59	4.32	-5.54	-1.81	5.83	198.14	1.50	26.83G
	344.50	5.78	142.92	344.25	5.20	-6.25	-1.24	6.37	191.24	2.52	45.86G
	354.20	6.33	147.85	353.89	6.21	-7.09	-0.66	7.12	185.34	2.34	42.25G
	363.90	6.93	152.22	363.53	7.32	-8.06	-0.11	8.06	180.75	2.42	72.10G
	373.60	7.13	156.68	373.15	8.51	-9.13	0.41	9.14	177.46	1.80	50.41G
	383.50	7.72	161.73	382.97	9.78	-10.33	0.86	10.37	175.26	2.66	56.05G
	393.20	8.38	167.97	392.57	11.12	-11.64	1.21	11.70	174.07	3.38	46.02G
	402.90	9.25	173.33	402.16	12.56	-13.11	1.45	13.19	173.70	3.70	37.04G
	412.44	10.46	178.21	411.56	14.09	-14.73	1.56	14.82	173.95	4.62	14.30G
	422.10	11.76	179.83	421.04	15.80	-16.59	1.59	16.67	174.52	4.15	2.10G
	431.80	12.72	179.99	430.52	17.68	-18.65	1.60	18.72	175.11	2.97	-7.18G
	441.50	13.44	179.60	439.97	19.69	-20.85	1.60	20.91	175.60	2.24	3.69G
	451.20	14.53	179.88	449.38	21.83	-23.19	1.61	23.25	176.02	3.38	4.31G
	480.00	16.75	180.46	477.11	28.91	-30.95	1.59	30.99	177.06	2.32	46.38G
	489.77	17.69	183.62	486.44	31.51	-33.84	1.48	33.87	177.49	4.07	-34.35G
	518.60	19.56	179.88	513.76	39.80	-43.04	1.22	43.06	178.38	2.31	43.67G
	528.40	20.38	182.09	522.97	42.83	-46.39	1.16	46.40	178.57	3.41	-44.27G
	538.10	20.72	181.16	532.06	45.90	-49.79	1.06	49.80	178.78	1.46	-61.26G
	547.90	21.11	179.24	541.21	49.09	-53.29	1.05	53.30	178.87	2.41	-38.04G

556.90	21.91	177.58	549.58	52.14	-56.59	1.14	56.60	178.84	3.35	-19.24G
566.90	22.94	176.66	558.83	55.69	-60.40	1.34	60.41	178.73	3.26	-31.92G
576.70	23.76	175.40	567.82	59.34	-64.27	1.60	64.29	178.57	2.94	22.10G
586.20	24.35	175.98	576.50	62.99	-68.13	1.90	68.16	178.41	2.01	7.22G
595.40	25.26	176.25	584.85	66.61	-71.98	2.16	72.02	178.28	2.99	35.26G
605.50	26.35	177.97	593.94	70.71	-76.37	2.38	76.41	178.22	3.93	-7.01G
615.00	27.36	177.70	602.42	74.69	-80.66	2.54	80.70	178.20	3.21	84.17G
624.40	27.41	178.69	610.77	78.69	-84.98	2.68	85.03	178.20	1.46	111.26G
634.30	27.28	179.43	619.56	82.87	-89.53	2.75	89.57	178.24	1.10	63.33G
644.00	27.64	180.94	628.17	86.95	-94.00	2.74	94.04	178.33	2.42	28.48G
653.80	27.70	181.01	636.85	91.07	-98.55	2.66	98.59	178.45	0.21	97.36G
663.30	27.68	181.35	645.26	95.07	-102.97	2.57	103.00	178.57	0.50	-49.55G
673.00	28.21	180.05	653.83	99.20	-107.51	2.51	107.54	178.66	2.50	-18.49G
682.80	28.51	179.84	662.45	103.45	-112.17	2.52	112.20	178.71	0.97	-9.14G
692.41	29.27	179.59	670.86	107.70	-116.81	2.54	116.84	178.75	2.40	135.80G
702.00	29.15	179.83	679.24	111.98	-121.49	2.56	121.52	178.79	0.52	-101.02G
711.60	29.01	178.25	687.63	116.27	-126.15	2.64	126.18	178.80	2.44	-63.74G
721.20	29.29	177.11	696.01	120.61	-130.83	2.83	130.86	178.76	1.94	-60.00G
730.70	29.52	176.31	704.29	124.98	-135.48	3.10	135.52	178.69	1.44	125.35G
740.10	29.44	176.54	712.47	129.31	-140.10	3.39	140.14	178.61	0.44	58.41G
759.40	29.73	177.48	729.25	138.20	-149.62	3.88	149.67	178.51	0.85	-147.69G
787.50	27.58	174.50	753.91	150.85	-163.05	4.81	163.12	178.31	2.76	-143.93G
821.50	24.43	168.76	784.47	165.17	-177.79	6.94	177.93	177.76	3.55	-90.00G
831.20	24.43	167.19	793.30	169.10	-181.71	7.78	181.88	177.55	2.01	9.22G
840.20	25.63	167.64	801.46	172.83	-185.43	8.60	185.63	177.34	4.05	-27.37G
850.08	27.28	165.79	810.30	177.15	-189.71	9.62	189.96	177.10	5.60	-29.74G
859.30	28.35	164.51	818.46	181.40	-193.87	10.72	194.17	176.83	3.99	137.85G
868.40	28.23	164.74	826.47	185.66	-198.03	11.87	198.38	176.57	0.53	77.74G
877.10	28.50	167.14	834.12	189.73	-202.04	12.87	202.45	176.36	4.04	96.06G
887.00	28.38	170.19	842.83	194.33	-206.66	13.80	207.12	176.18	4.42	126.50G
896.50	27.70	172.21	851.21	198.64	-211.07	14.48	211.57	176.08	3.69	-134.01G
904.00	27.50	171.76	857.86	201.98	-214.51	14.96	215.03	176.01	1.16	86.51G
914.70	27.53	172.71	867.35	206.72	-219.41	15.63	219.97	175.92	1.23	-62.97G
923.90	27.63	172.29	875.51	210.80	-223.63	16.19	224.22	175.86	0.71	42.87G
933.00	28.30	173.59	883.54	214.88	-227.87	16.71	228.48	175.81	2.99	67.16G
942.70	28.68	175.41	892.07	219.27	-232.47	17.15	233.11	175.78	2.93	106.19G
951.80	28.30	178.41	900.07	223.32	-236.81	17.39	237.44	175.80	4.88	-93.22G
959.60	28.28	177.56	906.94	226.75	-240.50	17.52	241.14	175.83	1.55	80.12G
970.50	28.38	178.71	916.53	231.54	-245.67	17.69	246.31	175.88	1.53	-99.04G
980.00	28.25	176.81	924.89	235.72	-250.17	17.86	250.81	175.92	2.88	80.29G
988.60	28.30	177.41	932.47	239.52	-254.24	18.07	254.88	175.93	1.01	-90.00G
1002.40	28.30	176.81	944.62	245.62	-260.77	18.40	261.42	175.96	0.62	-84.85G
1012.70	28.35	175.74	953.68	250.20	-265.65	18.72	266.31	175.97	1.49	129.52G
1021.60	28.08	176.44	961.53	254.15	-269.85	19.00	270.52	175.97	1.44	-109.44G
1031.60	27.95	175.64	970.36	258.56	-274.53	19.33	275.21	175.97	1.19	142.35G
1040.80	27.55	176.31	978.50	262.59	-278.81	19.63	279.50	175.97	1.65	-54.69G
1049.60	28.10	174.69	986.28	266.46	-282.90	19.95	283.61	175.97	3.19	-25.30G
1060.40	28.20	174.59	995.80	271.28	-287.98	20.43	288.70	175.94	0.31	33.56G
1069.60	28.43	174.91	1003.90	275.41	-292.32	20.83	293.06	175.92	0.90	84.76G
1078.90	28.50	176.34	1012.08	279.59	-296.74	21.16	297.49	175.92	2.21	-87.38G
1088.80	28.53	175.19	1020.78	284.03	-301.45	21.51	302.22	175.92	1.67	-129.81G
1098.50	28.38	174.81	1029.31	288.40	-306.06	21.92	306.84	175.90	0.73	23.23G
1108.10	28.83	175.21	1037.73	292.75	-310.64	22.32	311.44	175.89	1.53	-123.21G
1117.40	28.50	174.14	1045.89	296.97	-315.08	22.73	315.90	175.87	1.97	-95.34G
1127.40	28.45	172.89	1054.68	301.52	-319.81	23.27	320.66	175.84	1.79	136.45G
1136.60	28.40	172.99	1062.77	305.70	-324.16	23.81	325.03	175.80	0.23	175.49G
1146.10	28.28	173.01	1071.14	310.01	-328.64	24.36	329.54	175.76	0.38	137.15G
1155.80	27.83	173.91	1079.70	314.36	-333.17	24.88	334.10	175.73	1.91	106.16G

1165.00	27.68	175.06	1087.84	318.43	-337.43	25.29	338.38	175.71	1.81	-2.70G
1174.90	28.18	175.01	1096.58	322.81	-342.05	25.69	343.02	175.71	1.52	121.78G
1184.10	27.95	175.81	1104.70	326.89	-346.37	26.04	347.34	175.70	1.44	-102.28G
1193.44	27.85	174.79	1112.96	331.01	-350.72	26.39	351.71	175.70	1.57	-60.65G
1203.50	28.28	173.21	1121.83	335.51	-355.43	26.89	356.45	175.67	2.56	-105.81G
1213.00	28.15	172.21	1130.21	339.81	-359.88	27.46	360.93	175.64	1.55	108.02G
1222.10	27.80	174.66	1138.24	343.88	-364.12	27.95	365.20	175.61	3.96	166.48G
1231.90	27.55	174.79	1146.92	348.19	-368.66	28.37	369.75	175.60	0.79	-98.83G
1241.50	27.48	173.76	1155.44	352.40	-373.07	28.81	374.18	175.58	1.50	47.22G
1251.20	27.85	174.61	1164.03	356.68	-377.55	29.26	378.68	175.57	1.67	-157.13G
1260.85	27.50	174.29	1172.57	360.93	-382.01	29.70	383.16	175.55	1.18	125.77G
1270.20	27.20	175.21	1180.88	365.00	-386.29	30.09	387.46	175.55	1.66	-24.40G
1279.40	27.63	174.79	1189.04	369.00	-390.51	30.46	391.69	175.54	1.54	-63.33G
1289.30	28.10	172.86	1197.80	373.40	-395.11	30.96	396.32	175.52	3.08	-109.13G
1299.00	27.98	172.11	1206.36	377.77	-399.63	31.55	400.87	175.49	1.15	68.36G
1308.40	28.25	173.51	1214.65	382.01	-404.02	32.11	405.30	175.46	2.27	84.38G
1317.90	28.33	175.04	1223.01	386.29	-408.50	32.56	409.80	175.44	2.30	-122.29G
1327.60	28.10	174.26	1231.56	390.63	-413.07	32.98	414.38	175.43	1.34	14.09G
1336.90	28.48	174.46	1239.75	394.81	-417.46	33.42	418.79	175.42	1.26	-95.31G
1347.00	28.45	173.74	1248.63	399.38	-422.24	33.91	423.60	175.41	1.02	-85.88G
1356.30	28.50	172.46	1256.81	403.62	-426.65	34.45	428.03	175.38	1.98	64.69G
1365.50	28.75	173.54	1264.88	407.83	-431.02	34.98	432.44	175.36	1.87	47.85G
1375.30	29.25	174.66	1273.45	412.35	-435.75	35.47	437.19	175.35	2.26	101.62G
1384.90	29.00	177.46	1281.84	416.73	-440.41	35.79	441.86	175.35	4.33	-84.85G
1394.10	29.05	176.41	1289.88	420.90	-444.86	36.03	446.32	175.37	1.67	-139.89G
1404.00	28.85	176.06	1298.55	425.40	-449.64	36.34	451.11	175.38	0.79	-92.29G
1413.20	28.83	174.64	1306.61	429.58	-454.07	36.70	455.55	175.38	2.23	80.69G
1422.20	28.90	175.49	1314.49	433.69	-458.40	37.08	459.89	175.38	1.39	-170.10G
1432.60	28.68	175.41	1323.60	438.41	-463.39	37.48	464.90	175.38	0.64	-93.72G
1442.20	28.63	173.26	1332.03	442.78	-467.97	37.93	469.50	175.37	3.23	55.79G
1451.50	28.98	174.31	1340.18	447.04	-472.42	38.41	473.98	175.35	1.98	109.19G
1461.10	28.80	175.41	1348.58	451.43	-477.04	38.83	478.62	175.35	1.75	108.94G
1470.80	28.48	177.46	1357.09	455.78	-481.68	39.12	483.27	175.36	3.20	-58.11G
1480.30	28.63	176.96	1365.44	460.01	-486.22	39.34	487.81	175.37	0.89	90.00G
1489.80	28.63	177.06	1373.78	464.26	-490.76	39.58	492.36	175.39	0.15	-109.32G
1497.60	28.58	176.76	1380.62	467.75	-494.49	39.78	496.09	175.40	0.58	-102.62G
1508.70	28.38	174.74	1390.38	472.73	-499.77	40.17	501.38	175.40	2.66	-113.40G
1518.50	28.15	173.59	1399.01	477.14	-504.39	40.64	506.02	175.39	1.81	90.00G
1528.20	28.15	174.86	1407.57	481.48	-508.94	41.10	510.60	175.38	1.85	72.20G
1537.50	28.33	176.01	1415.76	485.63	-513.33	41.45	515.00	175.38	1.85	109.59G
1547.10	28.25	176.49	1424.21	489.90	-517.87	41.75	519.55	175.39	0.75	-104.13G
1556.80	28.18	175.89	1432.76	494.20	-522.44	42.06	524.13	175.40	0.90	-98.71G
1566.10	28.08	174.39	1440.96	498.34	-526.81	42.43	528.52	175.40	2.30	61.92G
1575.90	28.35	175.44	1449.60	502.72	-531.43	42.84	533.15	175.39	1.73	17.73G
1585.50	28.65	175.64	1458.03	507.03	-535.99	43.19	537.73	175.39	0.98	-100.04G
1594.90	28.48	173.41	1466.29	511.29	-540.47	43.62	542.22	175.39	3.45	151.53G
1604.60	28.15	173.79	1474.83	515.68	-545.04	44.14	546.82	175.37	1.16	117.90G
1614.30	27.83	175.11	1483.39	520.00	-549.57	44.58	551.37	175.36	2.16	-39.43G
1623.60	28.10	174.64	1491.61	524.12	-553.91	44.97	555.73	175.36	1.12	-146.74G
1633.40	27.83	174.26	1500.26	528.48	-558.49	45.41	560.33	175.35	0.99	-87.82G
1642.90	27.88	172.26	1508.66	532.71	-562.89	45.93	564.76	175.34	2.96	45.55G
1652.10	28.23	173.01	1516.78	536.86	-567.18	46.49	569.09	175.31	1.62	84.28G
1661.80	28.28	173.99	1525.33	541.24	-571.75	47.01	573.68	175.30	1.44	52.15G
1671.50	28.38	174.26	1533.87	545.61	-576.33	47.48	578.28	175.29	0.50	-158.14G
1681.00	28.18	174.09	1542.23	549.89	-580.80	47.93	582.78	175.28	0.68	-79.96G
1690.50	28.30	172.74	1550.60	554.17	-585.27	48.45	587.27	175.27	2.05	-17.61G
1700.10	28.42	172.66	1559.05	558.54	-589.79	49.03	591.83	175.25	0.39	30.77G
1709.70	28.95	173.31	1567.47	562.94	-594.37	49.59	596.43	175.23	1.92	111.43G
1719.20	28.55	175.54	1575.80	567.28	-598.91	50.04	601.00	175.22	3.61	103.07G

1728.80	28.33	177.69	1584.24	571.55	-603.48	50.31	605.57	175.23	3.27	25.46G
1738.50	28.43	177.79	1592.78	575.84	-608.08	50.49	610.18	175.25	0.34	-132.55G
1747.80	28.33	177.56	1600.96	579.94	-612.50	50.67	614.59	175.27	0.48	94.06G
1757.30	28.30	178.56	1609.32	584.12	-617.00	50.82	619.09	175.29	1.50	-106.06G
1764.50	28.20	177.81	1615.66	587.27	-620.41	50.93	622.50	175.31	1.54	-87.86G
1772.90	28.28	174.96	1623.06	590.99	-624.37	51.18	626.47	175.31	4.82	169.95G
1782.80	28.20	174.99	1631.79	595.42	-629.04	51.59	631.15	175.31	0.25	128.26G
1792.20	27.68	176.43	1640.09	599.57	-633.43	51.92	635.56	175.31	2.72	-104.13G
1801.40	27.45	174.31	1648.25	603.58	-637.68	52.26	639.81	175.31	3.29	-104.68G
1811.30	27.40	173.89	1657.03	607.91	-642.21	52.73	644.37	175.31	0.61	168.54G
1820.90	26.80	174.16	1665.58	612.07	-646.56	53.19	648.74	175.30	1.91	115.31G
1830.10	26.15	177.46	1673.82	615.93	-650.65	53.49	652.84	175.30	5.24	71.46G
1839.90	26.43	179.26	1682.60	619.94	-654.99	53.61	657.18	175.32	2.59	8.01G
1849.50	26.75	179.36	1691.19	623.88	-659.28	53.66	661.46	175.35	1.01	-53.66G
1858.60	26.85	179.06	1699.31	627.65	-663.39	53.72	665.56	175.37	0.55	-49.44G
1868.60	27.68	177.01	1708.20	631.90	-667.96	53.88	670.13	175.39	3.76	-90.00G
1878.20	27.68	176.39	1716.70	636.07	-672.42	54.13	674.59	175.40	0.90	120.40G
1887.60	27.58	176.76	1725.03	640.15	-676.77	54.39	678.95	175.40	0.63	44.33G
1897.30	28.18	177.99	1733.60	644.37	-681.30	54.60	683.48	175.42	2.57	-114.84G
1906.10	28.13	177.76	1741.36	648.22	-685.45	54.75	687.63	175.43	0.41	-98.41G
1916.30	27.95	174.66	1750.36	652.72	-690.23	55.07	692.43	175.44	4.32	168.80G
1926.10	27.53	174.84	1759.04	657.03	-694.77	55.49	696.99	175.43	1.31	0.00G
1935.70	28.00	174.84	1767.53	661.26	-699.23	55.89	701.46	175.43	1.47	-77.80G
1945.00	28.10	173.89	1775.74	665.41	-703.58	56.32	705.83	175.42	1.48	-68.29G
1954.80	28.48	171.96	1784.37	669.86	-708.19	56.89	710.47	175.41	3.03	-95.93G
1964.30	28.43	170.86	1792.72	674.22	-712.66	57.57	714.99	175.38	1.66	166.10G
1973.30	28.05	171.06	1800.65	678.33	-716.87	58.24	719.23	175.36	1.31	70.74G
1983.30	28.33	172.69	1809.46	682.87	-721.55	58.91	723.95	175.33	2.46	76.20G
2002.40	28.65	175.21	1826.25	691.53	-730.60	59.86	733.05	175.32	1.95	-100.67G
2012.00	28.51	173.54	1834.68	695.89	-735.17	60.31	737.64	175.31	2.53	-35.73G
2020.10	28.63	173.36	1841.80	699.59	-739.02	60.76	741.52	175.30	0.55	110.07G
2030.60	28.53	173.94	1851.02	704.37	-744.01	61.31	746.54	175.29	0.84	149.00G
2040.60	28.10	174.49	1859.82	708.87	-748.73	61.79	751.28	175.28	1.51	-88.66G
2050.10	28.13	172.76	1868.20	713.14	-753.18	62.29	755.75	175.27	2.58	75.45G
2059.40	28.35	174.46	1876.39	717.33	-757.55	62.78	760.15	175.26	2.69	82.21G
2069.20	28.38	174.91	1885.02	721.74	-762.19	63.21	764.81	175.26	0.66	-104.29G
2078.80	28.20	173.34	1893.47	726.06	-766.72	63.67	769.36	175.25	2.39	70.93G
2088.40	28.38	174.41	1901.92	730.39	-771.24	64.16	773.90	175.24	1.68	0.00G
2097.90	28.43	174.41	1910.28	734.68	-775.74	64.60	778.42	175.24	0.16	-109.02G
2107.30	28.33	173.79	1918.55	738.92	-780.18	65.06	782.89	175.23	0.99	124.01G
2116.80	27.98	174.91	1926.92	743.18	-784.64	65.50	787.37	175.23	2.00	-60.04G
2126.40	28.15	174.29	1935.40	747.45	-789.14	65.92	791.89	175.22	1.06	-119.99G
2136.00	27.85	173.16	1943.87	751.75	-793.62	66.42	796.39	175.22	1.90	77.65G
2145.50	27.90	173.64	1952.27	755.98	-798.03	66.93	800.83	175.21	0.73	-144.96G
2155.20	27.88	173.61	1960.84	760.31	-802.54	67.43	805.37	175.20	0.08	136.06G
2164.70	27.30	174.84	1969.26	764.48	-806.92	67.87	809.77	175.19	2.57	67.40G
2174.30	27.53	176.01	1977.79	768.65	-811.32	68.23	814.19	175.19	1.83	-77.20G
2183.80	27.75	174.06	1986.20	772.81	-815.71	68.61	818.59	175.19	2.94	-142.37G
2193.50	27.60	173.81	1994.79	777.10	-820.19	69.08	823.10	175.19	0.59	85.49G
2202.90	27.68	175.66	2003.12	781.23	-824.54	69.48	827.46	175.18	2.75	90.00G
2212.40	27.68	177.74	2011.53	785.35	-828.94	69.74	831.87	175.19	3.05	-102.81G
2222.00	27.60	176.96	2020.04	789.50	-833.39	69.94	836.32	175.20	1.16	126.57G
2231.40	27.43	177.46	2028.37	793.55	-837.73	70.16	840.66	175.21	0.92	90.00G
2241.10	27.43	178.56	2036.98	797.69	-842.19	70.31	845.12	175.23	1.57	-111.74G
2250.70	27.17	177.09	2045.51	801.77	-846.59	70.48	849.52	175.24	2.26	50.86G
2260.10	27.55	178.09	2053.86	805.79	-850.91	70.66	853.84	175.25	1.90	-102.05G
2269.80	27.30	175.24	2062.47	809.96	-855.37	70.92	858.30	175.26	4.13	109.18G
2279.30	27.10	176.54	2070.92	814.05	-859.70	71.23	862.64	175.26	1.98	-65.39G

2288.20	27.18	176.16	2078.84	817.85	-863.75	71.49	866.70	175.27	0.64	-82.26G
2298.40	27.30	174.41	2087.91	822.26	-868.40	71.87	871.37	175.27	2.38	-78.80G
2307.90	27.38	173.56	2096.35	826.40	-872.74	72.33	875.73	175.26	1.26	-112.24G
2316.70	27.30	173.13	2104.17	830.26	-876.76	72.80	879.77	175.25	0.73	160.78G
2327.10	27.13	173.26	2113.42	834.80	-881.48	73.36	884.53	175.24	0.52	-90.00G
2336.60	27.13	172.46	2121.87	838.95	-885.78	73.90	888.85	175.23	1.15	-116.83G
2345.60	26.85	171.21	2129.89	842.88	-889.82	74.48	892.93	175.22	2.11	-69.90G
2357.80	26.90	170.91	2140.77	848.20	-895.27	75.34	898.43	175.19	0.36	146.15G
2367.40	26.45	171.59	2149.35	852.36	-899.53	75.99	902.73	175.17	1.70	-138.32G
2376.80	25.90	170.46	2157.79	856.36	-903.62	76.64	906.87	175.15	2.37	78.98G
2386.40	26.08	172.41	2166.42	860.41	-907.78	77.27	911.06	175.14	2.73	52.79G
2396.20	26.58	173.86	2175.20	864.57	-912.10	77.78	915.41	175.13	2.49	153.48G
2405.50	26.27	174.21	2183.53	868.50	-916.21	78.21	919.55	175.12	1.12	-138.47G
2415.10	25.83	173.31	2192.15	872.51	-920.40	78.67	923.76	175.11	1.85	-70.27G
2424.50	25.89	172.93	2200.61	876.43	-924.47	79.16	927.86	175.11	0.56	-113.32G
2433.80	25.86	172.77	2208.98	880.31	-928.50	79.67	931.91	175.10	0.25	-6.24G
2443.80	25.90	172.76	2217.98	884.49	-932.83	80.22	936.27	175.08	0.12	-147.77G
2453.30	25.66	172.41	2226.53	888.45	-936.93	80.75	940.40	175.07	0.90	98.00G
2462.40	25.60	173.46	2234.73	892.21	-940.84	81.24	944.34	175.07	1.51	90.00G
2472.40	25.60	174.24	2243.75	896.33	-945.13	81.70	948.66	175.06	1.01	-35.65G
2481.90	25.77	173.96	2252.31	900.24	-949.23	82.12	952.77	175.06	0.66	-50.86G
2491.40	25.92	173.54	2260.86	904.18	-953.34	82.57	956.91	175.05	0.75	-80.42G
2501.10	26.10	171.34	2269.58	908.26	-957.56	83.13	961.16	175.04	3.04	90.00G
2510.70	26.10	171.56	2278.20	912.33	-961.74	83.76	965.38	175.02	0.30	-80.74G
2520.00	26.23	169.89	2286.55	916.29	-965.78	84.42	969.47	175.00	2.41	96.25G
2529.60	26.15	171.81	2295.16	920.39	-969.97	85.10	973.69	174.99	2.66	-131.98G
2539.30	25.85	171.04	2303.88	924.48	-974.17	85.73	977.93	174.97	1.40	-80.39G
2548.60	25.98	169.41	2312.25	928.42	-978.18	86.42	981.99	174.95	2.34	-85.01G
2558.40	26.00	168.91	2321.06	932.60	-982.39	87.23	986.26	174.93	0.67	50.05G
2568.00	26.48	170.18	2329.67	936.73	-986.57	88.00	990.48	174.90	2.31	33.24G
2577.50	27.08	171.04	2338.15	940.87	-990.79	88.69	994.75	174.88	2.26	4.00G
2587.00	28.23	171.21	2346.56	945.12	-995.15	89.38	999.15	174.87	3.64	-12.44G
2596.60	29.00	170.86	2354.99	949.56	-999.69	90.09	1003.74	174.85	2.46	-37.49G
2606.00	29.85	169.56	2363.18	954.04	-1004.24	90.88	1008.34	174.83	3.39	-140.95G
2615.70	28.98	168.09	2371.63	958.68	-1008.91	91.80	1013.08	174.80	3.50	-116.13G
2626.80	28.35	165.26	2381.37	963.91	-1014.09	93.03	1018.35	174.76	4.04	-73.71G
2636.20	28.70	162.91	2389.63	968.36	-1018.41	94.26	1022.76	174.71	3.75	-35.65G
2645.70	30.67	160.18	2397.88	973.04	-1022.87	95.75	1027.34	174.65	7.54	-69.08G
2655.40	31.20	157.63	2406.20	978.02	-1027.52	97.54	1032.14	174.58	4.37	-72.41G
2664.60	31.50	155.89	2414.06	982.80	-1031.92	99.43	1036.70	174.50	3.11	169.89G
2674.50	30.23	156.34	2422.56	987.88	-1036.56	101.49	1041.52	174.41	3.91	-115.60G
2683.60	29.73	154.16	2430.44	992.43	-1040.69	103.39	1045.81	174.33	3.95	-122.61G
2692.70	29.35	152.93	2438.36	996.91	-1044.71	105.39	1050.01	174.24	2.36	-68.19G
2702.70	29.95	150.08	2447.05	1001.84	-1049.05	107.75	1054.57	174.14	4.60	-52.62G
2711.70	30.30	149.18	2454.83	1006.33	-1052.95	110.04	1058.68	174.03	1.90	-45.81G
2721.90	31.73	146.44	2463.57	1011.53	-1057.39	112.84	1063.40	173.91	5.91	7.79G
2731.70	33.85	146.96	2471.81	1016.77	-1061.83	115.75	1068.12	173.78	6.55	-10.64G
2740.90	35.88	146.31	2479.36	1021.96	-1066.22	118.64	1072.80	173.65	6.73	21.60G
2750.90	38.02	147.68	2487.35	1027.89	-1071.26	121.91	1078.18	173.51	6.88	1.43G
2759.90	40.90	147.79	2494.30	1033.56	-1076.10	124.97	1083.33	173.38	9.60	27.94G
2770.00	43.57	149.83	2501.78	1040.29	-1081.91	128.48	1089.51	173.23	8.91	23.26G
2779.00	45.26	150.85	2508.20	1046.56	-1087.38	131.60	1095.32	173.10	6.12	50.66G
2789.70	46.51	152.92	2515.65	1054.22	-1094.16	135.21	1102.48	172.96	5.44	28.48G
2799.20	48.87	154.61	2522.05	1061.24	-1100.46	138.32	1109.12	172.84	8.43	31.26G
2808.10	51.29	156.48	2527.76	1068.07	-1106.67	141.14	1115.64	172.73	9.48	-8.60G
2817.50	54.75	155.84	2533.41	1075.57	-1113.54	144.18	1122.83	172.62	11.16	8.84G
2826.60	56.96	156.25	2538.52	1083.10	-1120.42	147.23	1130.05	172.51	7.37	-31.17G
2836.30	58.82	154.94	2543.68	1091.32	-1127.90	150.63	1137.92	172.39	6.70	-124.07G

2845.70	58.43	154.26	2548.57	1099.34	-1135.15	154.07	1145.56	172.27	2.23	-21.96G
2855.70	59.09	153.95	2553.76	1107.89	-1142.84	157.81	1153.69	172.14	2.13	26.16G
2864.60	60.51	154.75	2558.23	1115.58	-1149.78	161.14	1161.01	172.02	5.32	-27.37G
2874.20	63.05	153.28	2562.77	1124.03	-1157.38	164.84	1169.06	171.89	8.91	45.88G
2884.40	65.01	155.49	2567.24	1133.20	-1165.65	168.80	1177.81	171.76	8.21	-23.37G
2893.50	66.39	154.84	2570.98	1141.49	-1173.17	172.29	1185.76	171.65	4.95	14.39G
2921.50	69.91	155.80	2581.40	1167.47	-1196.79	183.14	1210.72	171.30	3.89	0.00G
2931.40	71.03	155.80	2584.71	1176.80	-1205.30	186.96	1219.71	171.18	3.39	-8.30G
2941.30	71.55	155.72	2587.89	1186.18	-1213.85	190.81	1228.75	171.07	1.59	7.65G
2950.70	72.33	155.83	2590.80	1195.11	-1222.00	194.48	1237.37	170.96	2.51	-43.36G
2959.60	73.46	154.72	2593.42	1203.62	-1229.72	198.03	1245.57	170.85	5.22	-27.41G
2969.70	74.24	154.30	2596.23	1213.32	-1238.48	202.21	1254.88	170.73	2.61	-29.44G
2979.10	75.84	153.37	2598.66	1222.39	-1246.63	206.21	1263.57	170.61	5.86	46.67G
2988.40	76.17	153.73	2600.90	1231.41	-1254.71	210.23	1272.20	170.49	1.55	-94.33G
2998.00	76.03	151.71	2603.21	1240.71	-1262.99	214.50	1281.08	170.36	6.14	-51.79G
3007.40	76.49	151.11	2605.44	1249.82	-1271.01	218.87	1289.72	170.23	2.37	-26.72G
3017.10	77.46	150.61	2607.63	1259.23	-1279.26	223.48	1298.64	170.09	3.36	-55.85G
3026.80	78.34	149.29	2609.66	1268.66	-1287.47	228.23	1307.54	169.95	4.83	-55.91G
3036.60	79.14	148.09	2611.58	1278.20	-1295.68	233.22	1316.51	169.80	4.36	-75.64G
3045.70	79.35	147.26	2613.28	1287.04	-1303.24	238.00	1324.79	169.65	2.78	-71.03G
3055.70	79.70	146.23	2615.09	1296.75	-1311.46	243.39	1333.85	169.49	3.21	-52.11G
3065.10	80.50	145.19	2616.71	1305.86	-1319.11	248.61	1342.33	169.33	4.15	-42.80G
3074.40	81.13	144.60	2618.19	1314.87	-1326.62	253.89	1350.70	169.17	2.77	-64.76G
3084.10	81.72	143.34	2619.64	1324.26	-1334.38	259.53	1359.38	168.99	4.26	-65.06G
3093.80	82.27	142.15	2620.99	1333.61	-1342.02	265.35	1368.00	168.82	4.02	131.49G
3102.90	81.85	142.63	2622.25	1342.37	-1349.16	270.85	1376.08	168.65	2.09	-79.54G
3112.90	82.06	141.49	2623.65	1351.98	-1356.97	276.93	1384.94	168.47	3.44	-37.74G
3122.40	82.47	141.17	2624.93	1361.09	-1364.32	282.82	1393.33	168.29	1.64	-59.61G
3131.60	83.10	140.09	2626.08	1369.89	-1371.38	288.61	1401.42	168.12	4.05	-42.44G
3141.50	83.72	139.52	2627.22	1379.34	-1378.89	294.95	1410.08	167.93	2.54	-15.80G
3151.10	85.27	139.08	2628.14	1388.50	-1386.13	301.18	1418.48	167.74	5.03	-82.69G
3160.70	85.44	137.76	2628.92	1397.62	-1393.29	307.53	1426.83	167.55	4.15	-86.84G
3170.30	85.54	135.98	2629.67	1406.66	-1400.27	314.08	1435.07	167.36	5.55	-59.24G
3179.80	85.95	135.29	2630.38	1415.55	-1407.05	320.70	1443.13	167.16	2.53	-42.20G
3189.20	86.71	134.60	2630.98	1424.31	-1413.67	327.34	1451.08	166.96	3.27	-32.84G
3199.00	87.67	133.98	2631.46	1433.40	-1420.51	334.35	1459.33	166.76	3.50	-32.60G
3208.50	89.14	133.04	2631.72	1442.18	-1427.05	341.23	1467.28	166.55	5.51	-66.18G
3218.20	89.86	131.41	2631.81	1451.06	-1433.57	348.42	1475.30	166.34	5.51	-47.83G
3227.80	90.34	130.88	2631.79	1459.78	-1439.88	355.65	1483.15	166.13	2.23	115.24G
3237.30	89.76	132.11	2631.78	1468.43	-1446.18	362.76	1490.98	165.92	4.29	-80.06G
3246.70	90.03	130.57	2631.80	1476.97	-1452.38	369.82	1498.73	165.71	4.99	90.00G
3256.60	90.03	131.32	2631.79	1485.95	-1458.87	377.30	1506.87	165.50	2.27	-73.58G
3266.10	90.31	130.37	2631.77	1494.55	-1465.09	384.48	1514.70	165.30	3.13	23.20G
3275.50	90.38	130.40	2631.71	1503.03	-1471.18	391.64	1522.41	165.09	0.24	-132.91G
3294.80	88.15	128.00	2631.96	1520.26	-1483.37	406.60	1538.09	164.67	5.09	-79.92G
3304.30	88.36	126.82	2632.25	1528.60	-1489.14	414.14	1545.65	164.46	3.78	-96.35G
3314.10	88.35	126.73	2632.53	1537.16	-1495.00	421.98	1553.42	164.24	0.28	63.43G
3323.60	88.60	127.23	2632.78	1545.47	-1500.72	429.57	1560.99	164.03	1.76	-97.13G
3333.10	88.56	126.91	2633.02	1553.78	-1506.44	437.15	1568.59	163.82	1.02	106.40G
3343.30	88.46	127.25	2633.28	1562.71	-1512.59	445.28	1576.77	163.60	1.04	-74.27G
3352.90	88.77	126.15	2633.51	1571.09	-1518.32	452.98	1584.46	163.39	3.57	116.03G
3362.30	88.36	126.99	2633.75	1579.28	-1523.92	460.52	1591.99	163.19	2.98	144.48G
3371.80	88.15	127.14	2634.04	1587.59	-1529.65	468.10	1599.67	162.98	0.81	-81.88G
3381.50	88.53	124.49	2634.32	1595.98	-1535.32	475.96	1607.40	162.78	8.28	115.25G
3390.20	88.12	125.36	2634.57	1603.43	-1540.30	483.09	1614.28	162.59	3.32	139.75G
3400.50	87.53	125.86	2634.96	1612.31	-1546.29	491.46	1622.51	162.37	2.25	-48.52G
3410.04	87.91	125.43	2635.34	1620.54	-1551.85	499.21	1630.16	162.17	1.80	105.79G
3420.00	87.67	126.28	2635.73	1629.16	-1557.68	507.27	1638.19	161.96	2.66	120.90G
3429.50	87.18	127.10	2636.15	1637.44	-1563.35	514.88	1645.95	161.77	3.01	0.00G

3439.30	87.71	127.10	2636.59	1646.01	-1569.25	522.69	1654.01	161.58	1.62	65.27G
3448.50	88.18	128.12	2636.92	1654.10	-1574.86	529.98	1661.65	161.40	3.66	-23.53G
3458.40	89.42	127.58	2637.13	1662.84	-1580.94	537.79	1669.90	161.21	4.10	-77.61G
3467.90	89.62	126.67	2637.21	1671.16	-1586.67	545.37	1677.78	161.03	2.94	-101.25G
3478.00	89.28	124.96	2637.31	1679.90	-1592.58	553.55	1686.04	160.83	5.18	-175.01G
3487.60	88.25	124.87	2637.51	1688.12	-1598.07	561.43	1693.82	160.64	3.23	-117.27G
3497.10	88.08	124.54	2637.82	1696.24	-1603.48	569.23	1701.52	160.46	1.17	104.62G
3506.60	87.70	126.00	2638.17	1704.40	-1608.96	576.98	1709.29	160.27	4.76	106.71G
3516.20	87.67	126.10	2638.55	1712.72	-1614.61	584.74	1717.23	160.09	0.33	-8.78G
3525.80	88.77	125.93	2638.85	1721.04	-1620.25	592.50	1725.18	159.91	3.48	-63.74G
3535.20	89.14	125.18	2639.02	1729.14	-1625.71	600.14	1732.95	159.74	2.67	74.80G
3545.10	89.42	126.21	2639.15	1737.70	-1631.49	608.18	1741.16	159.56	3.23	-75.97G
3554.50	89.69	125.13	2639.22	1745.81	-1636.97	615.82	1748.97	159.38	3.55	96.92G
3563.90	89.49	126.78	2639.29	1753.95	-1642.49	623.43	1756.82	159.22	5.30	-133.40G
3573.80	88.97	126.23	2639.42	1762.58	-1648.38	631.39	1765.16	159.04	2.29	136.34G
3583.40	88.53	126.65	2639.63	1770.93	-1654.08	639.11	1773.25	158.87	1.90	105.54G
3592.80	88.28	127.55	2639.89	1779.16	-1659.75	646.60	1781.25	158.72	2.98	117.17G
3602.50	88.08	127.94	2640.20	1787.70	-1665.68	654.27	1789.57	158.56	1.36	75.57G
3612.20	88.42	129.26	2640.50	1796.32	-1671.73	661.84	1797.98	158.40	4.21	-58.29G
3621.70	88.97	128.37	2640.71	1804.77	-1677.68	669.24	1806.24	158.25	3.30	79.96G
3631.60	89.11	129.16	2640.88	1813.58	-1683.88	676.96	1814.86	158.10	2.43	10.49G
3641.00	89.38	129.21	2641.00	1821.97	-1689.82	684.25	1823.10	157.96	0.88	-8.28G
3650.80	89.93	129.13	2641.06	1830.72	-1696.01	691.85	1831.69	157.81	1.70	-94.09G
3660.30	89.79	127.17	2641.09	1839.12	-1701.88	699.32	1839.95	157.66	6.21	-119.84G
3670.00	88.97	125.74	2641.19	1847.56	-1707.64	707.12	1848.26	157.51	5.10	-144.22G
3682.80	87.57	124.73	2641.58	1858.56	-1715.02	717.57	1859.09	157.30	4.05	-128.03G
Projection to Bit	3700.00	87.00	124.00	2642.39	1873.20	731.75	1873.53	157.01	1.61	0.00G

Survey Type: Definitive Survey

Survey Error Model: SLB ISCWSA version 16 *** 3-D 95.00% Confidence 2.7955 sigma

Surveying Prog:

MD From (m)

0.00

759.40

MD To (m)

759.40

3700.00

EOU Freq

Act-Stns

Act-Stns

Survey Tool Type

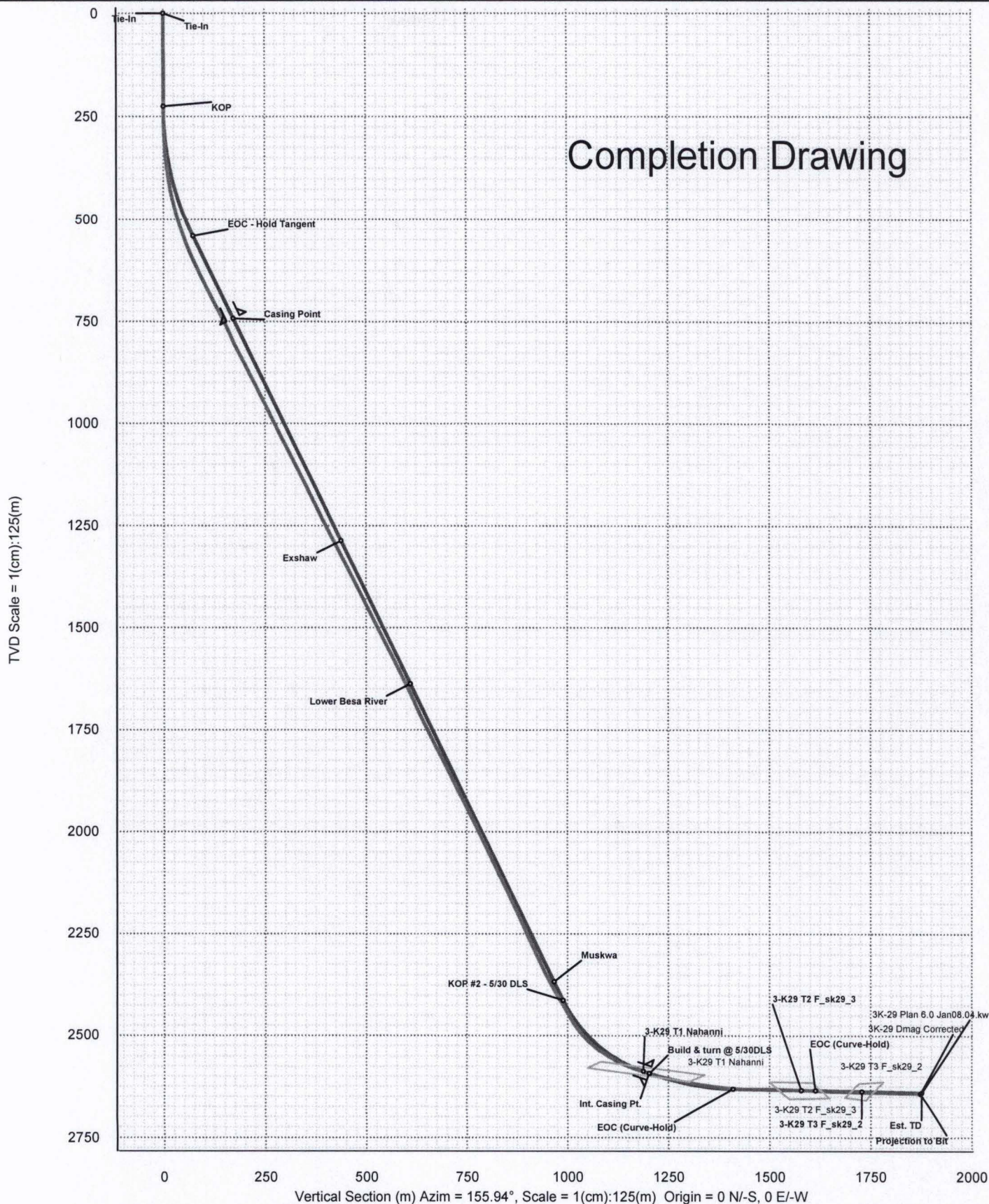
SLB_MWD+DMAG

SLB_MWD-STD

**Italicized stations are NOT used in position calculations.*

WELL	3K-29	FIELD	FT. LIARD(CDN-NAD27)	STRUCTURE	Chevron K-29 PAD
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Magnetic Parameters	Dip: 78.547°	Date: January 30, 2004	Surface Location	NAD27 UTM Zone 10N	Miscellaneous	Job#4000 3-K29	TVD Ref: KB (416.90 m above MSL)
Model: BGGM 2003	Mag Dec: +24.496°	FS: 58727.0 nT	Lat: N60 28 42.337	6704631.49 m	Plan: 3K-29 Plan 6.0 Jan08.04.kw	SVY Date: January 08, 2004	
			Lon: W123 35 3.406	Eastng: 467880.97 m			
				Grid Convr: -0.50642687°			
				Scale Fact: 0.9996126403			



WELL 3K-29	FIELD FT. LIARD(CDN-NAD27)	STRUCTURE Chevron K-29 PAD
Magnetic Parameters Model: BGGM 2003 Dip: 78.547° Mag Dec: +24.496°	Surface Location Lat: N60 28 42.337 Lon: W123 35 3.406 Northing: 6704631.49 m Easting: 467880.97 m NAD27 UTM Zone 10N Grid Conv: -0.50842687° Scale Fact: 0.9996126403	Miscellaneous Slot: Job#4000 3-K29 Plan: 3K-29 Plan 6.0 Jan08.04.kw TVD Ref: KB (416.90 m above MSL) Srvy Date: January 08, 2004

