

SYSDRILL
Closest Approach + Clearance Factor Report
Wellbore: PAVISTMA 5 #1-5-32-090-4-NH (PWB)
Wellpath: PAVISTMA 5 #1-5-32-090-4-NH (PWP#1)



Ellipse separations are reported ONLY if BOTH wells have uncertainty data
Only Depth and Magnetic Reference Field error terms are correlated across tie points
Cutoff is calculated on CENTRE to CENTRE distance

Summary data uses Closest Approach clearance calculation for all minima
Hole size/Casings ARE included
Hole size/Casings are NOT subtracted from Centre-Centre distance
Confidence limit of 95.00% / 2.80 SD.

Wellbore

Name	Created	Last Revised
PAVISTMA 5 #1-5-32-090-4-NH (PWB)	13-Nov-2012	26-Dec-2012

Well

Name	Government ID	Last Revised
PAVISTMA 5 #1-5-32-090-4-NH		13-Nov-2012

Slot

Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
Slot #5	1404370.4310	3160122.7376	N40 26 31.1021	W104 55 28.9710	48.37N	1.48W

Installation

Name	Easting	Northing	Coord System Name	North Alignment
Pavistma	3160124.2135	1404322.0586	CO83-NF on NORTH AMERICAN DATUM 1983 datum	Grid

Field

Name	Easting	Northing	Coord System Name	North Alignment
Windsor Project	3162710.0707	1407271.6545	CO83-NF on NORTH AMERICAN DATUM 1983 datum	Grid

Clearance Summary

Offset WellName	Offset Wellbore	Offset Slot	Offset Structure	Separation [ft]	MD[ft]	Diverging From[ft]	Ellipse Separation [ft]	Ellipse MD[ft]	Clearance Factor	Clearance MD[ft]
PAVISTMA 12-32	PAVISTMA 12-32 (AWB)	PAVISTMA 12-32	Pavistma (Anadarko)	173.31	2393.07	7522.22	168.18	2413.00	18.66	7522.22
CENTER POINT 5 #8-1-32-180 -4-NH	CENTER POINT 5 #8-1-32-180 -4-NH (PWB)	Slot #5	Center Point	227.44	11653.56	11653.56	174.88	11653.56	4.33	11653.56
PAVISTMA 11-32	PAVISTMA 11-32 (AWB)	PAVISTMA 11-32	Pavistma (Anadarko)	239.24	1785.86	8844.59	234.86	1801.06	4.76	8844.59
PAVISTMA 19-32	PAVISTMA 19-32 (AWB)	PAVISTMA 19-32	Pavistma (Anadarko)	297.05	13.00	8187.41	295.30	1505.78	8.13	8280.72

Reference Wellbore Survey Tool Program

Survey Name	MD[ft]	Survey Tool	Error Model
Planned	11653.56	WdW Rate Gyro	Standard

Clearance Data

Reference MD[ft]	Reference TVD[ft]	Reference North[ft]	Reference East[ft]	Offset Well	Offset MD[ft]	Offset TVD[ft]	Offset North[ft]	Offset East[ft]	Angle From Highside [deg]	Closest Approach Distance [ft]	Ellipse Separation [ft]	Clearance Factor
13.00	13.00	0.00N	0.00E	PAVISTMA 12-32	0.00	13.00	237.02S	13.28E	176.8	237.39	237.39	
113.00	113.00	0.00N	0.00E	PAVISTMA 12-32	99.80	112.80	237.11S	13.17E	176.8	237.47	236.48	239.96
213.00	213.00	0.00N	0.00E	PAVISTMA 12-32	199.40	212.40	237.26S	12.99E	176.9	237.61	236.17	164.32
313.00	313.00	0.00N	0.00E	PAVISTMA 12-32	299.40	312.40	237.52S	12.67E	176.9	237.86	236.05	130.97
341.08	341.08	0.00N	0.00E	PAVISTMA 12-32	327.49	340.48	237.60S	12.58E	177.0	237.93	236.02	124.35
413.00	413.00	0.00N	0.00E	PAVISTMA 12-32	399.00	412.00	237.91S	12.21E	177.1	238.23	236.09	111.34
513.00	513.00	0.00N	0.00E	PAVISTMA 12-32	498.60	511.59	238.36S	11.67E	177.2	238.65	236.22	98.03
613.00	613.00	0.00N	0.00E	PAVISTMA 12-32	598.59	611.58	238.99S	10.93E	177.4	239.24	236.53	88.30

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Clearance Data

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713.00	713.00	0.00N	0.00E	PAVISTMA 12-32	698.18	711.16	239.68S	10.11E	177.6	239.90	236.93	80.83
813.00	813.00	0.00N	0.00E	PAVISTMA 12-32	798.17	811.15	240.48S	9.15E	177.8	240.67	237.45	74.87
913.00	913.00	0.00N	0.00E	PAVISTMA 12-32	898.76	911.72	241.25S	7.95E	178.1	241.39	238.03	71.93
1013.00	1013.00	0.00N	0.00E	PAVISTMA 12-32	999.67	1012.62	241.53S	6.42E	178.5	241.61	238.16	69.90
1113.00	1112.98	1.44S	0.99W	PAVISTMA 12-32	1098.35	1111.29	242.13S	4.85E	-35.8	240.76	237.20	67.66
1213.00	1212.84	5.76S	3.94W	PAVISTMA 12-32	1198.83	1211.75	242.78S	3.34E	-36.2	237.13	233.47	64.75
1313.00	1312.45	12.95S	8.86W	PAVISTMA 12-32	1299.46	1312.37	243.04S	1.31E	-37.0	230.31	226.54	61.09
1331.63	1330.97	14.61S	9.99W	PAVISTMA 12-32	1318.55	1331.45	243.02S	0.95E	-37.3	228.67	224.88	60.32
1413.00	1411.84	22.07S	15.09W	PAVISTMA 12-32	1398.41	1411.30	242.97S	0.46W	-38.3	221.39	217.50	57.03
1513.00	1511.22	31.23S	21.35W	PAVISTMA 12-32	1497.36	1510.23	243.45S	2.25W	-39.7	213.09	209.09	53.30
1613.00	1610.60	40.39S	27.62W	PAVISTMA 12-32	1597.02	1609.86	244.12S	4.68W	-41.0	205.01	200.89	49.75
1713.00	1709.99	49.55S	33.88W	PAVISTMA 12-32	1696.73	1709.53	244.75S	7.38W	-42.3	196.98	192.73	46.35
1813.00	1809.37	58.72S	40.15W	PAVISTMA 12-32	1795.53	1808.29	245.49S	10.15W	-43.6	189.17	184.79	43.16
1913.00	1908.75	67.88S	46.41W	PAVISTMA 12-32	1893.30	1906.03	246.80S	12.23W	-45.3	182.18	177.66	40.33
2013.00	2008.13	77.04S	52.68W	PAVISTMA 12-32	1987.96	2000.64	249.33S	11.94W	-47.6	177.20	172.56	38.20
2113.00	2107.52	86.20S	58.94W	PAVISTMA 12-32	2084.42	2096.88	253.79S	7.28W	-51.4	175.70	170.94	36.91
2213.00	2206.90	95.37S	65.21W	PAVISTMA 12-32	2185.61	2197.85	258.17S	2.28W	-55.4	174.78	169.89	35.77
2313.00	2306.28	104.53S	71.47W	PAVISTMA 12-32	2285.72	2297.80	261.47S	2.43E	-59.5	173.67	168.65	34.60
2393.07	2385.86	111.86S	76.49W	PAVISTMA 12-32	2365.18	2377.10	263.68S	6.66E	-62.9	173.31	168.18	33.77
2413.00	2405.66	113.69S	77.74W	PAVISTMA 12-32	2384.90	2396.79	264.15S	7.87E	-63.9	173.33	168.18	33.60
2513.00	2505.04	122.85S	84.00W	PAVISTMA 12-32	2482.35	2493.97	266.58S	14.67E	-68.6	174.68	169.38	32.93
2613.00	2604.43	132.01S	90.26W	PAVISTMA 12-32	2583.60	2594.90	268.57S	22.38E	-73.7	177.28	171.83	32.53
2713.00	2703.81	141.18S	96.53W	PAVISTMA 12-32	2683.86	2694.88	268.86S	29.85E	-78.8	179.88	174.28	32.15
2813.00	2803.19	150.34S	102.79W	PAVISTMA 12-32	2781.93	2792.68	268.49S	37.17E	-83.9	183.46	177.72	31.95
2818.12	2808.28	150.81S	103.11W	PAVISTMA 12-32	2786.97	2797.70	268.46S	37.57E	-84.1	183.70	177.95	31.95
2913.00	2902.57	159.50S	109.06W	PAVISTMA 12-32	2880.09	2890.47	267.41S	45.55E	-89.0	188.93	183.04	32.10
3013.00	3001.95	168.66S	115.32W	PAVISTMA 12-32	2980.28	2990.30	266.03S	53.88E	-94.0	195.56	189.54	32.46
3113.00	3101.34	177.83S	121.59W	PAVISTMA 12-32	3079.11	3088.86	264.89S	61.08E	-98.4	202.74	196.58	32.91
3213.00	3200.72	186.99S	127.85W	PAVISTMA 12-32	3175.28	3184.71	263.76S	68.87E	-102.5	211.78	205.49	33.64
3313.00	3300.10	196.15S	134.12W	PAVISTMA 12-32	3274.28	3283.34	262.57S	77.28E	-106.4	222.22	215.80	34.59
3413.00	3399.48	205.31S	140.38W	PAVISTMA 12-32	3373.43	3382.15	261.21S	85.44E	-109.9	233.28	226.73	35.61
3513.00	3498.87	214.48S	146.65W	PAVISTMA 12-32	3473.85	3482.30	260.58S	92.70E	-112.9	244.31	237.63	36.59
3613.00	3598.25	223.64S	152.91W	PAVISTMA 12-32	3569.68	3577.86	259.92S	99.86E	-115.6	256.17	249.36	37.62
3713.00	3697.63	232.80S	159.18W	PAVISTMA 12-32	3665.28	3673.05	257.54S	108.38E	-118.4	269.82	262.88	38.90
3813.00	3797.01	241.96S	165.44W	PAVISTMA 12-32	3762.62	3769.90	254.70S	117.65E	-121.1	284.67	277.60	40.31
3913.00	3896.39	251.12S	171.70W	PAVISTMA 12-32	3862.90	3869.68	251.63S	127.18E	-123.6	300.08	292.90	41.77
4013.00	3995.78	260.29S	177.97W	PAVISTMA 12-32	3966.60	3972.96	248.54S	135.90E	-126.0	314.91	307.61	43.12

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4113.00	4095.16	269.45S	184.23W	PAVISTMA 12-32	4063.27	4069.37	246.75S	142.83E	-127.8	328.86	321.43	44.24
4213.00	4194.54	278.61S	190.50W	PAVISTMA 12-32	4155.95	4161.71	245.83S	150.71E	-129.2	344.35	336.77	45.43
4313.00	4293.92	287.77S	196.76W	PAVISTMA 12-32	4243.42	4248.63	243.65S	160.11E	-130.6	362.43	354.69	46.81
4413.00	4393.30	296.94S	203.03W	PAVISTMA 12-32	4334.31	4338.73	240.59S	171.71E	-132.1	382.86	374.95	48.38
4513.00	4492.69	306.10S	209.29W	PAVISTMA 12-32	4424.70	4428.05	239.03S	185.45E	-133.1	405.59	397.48	50.04
4613.00	4592.07	315.26S	215.56W	PAVISTMA 12-32	4516.46	4518.47	237.25S	200.95E	-134.0	430.09	421.78	51.76
4713.00	4691.45	324.42S	221.82W	PAVISTMA 12-32	4613.65	4614.34	235.45S	216.87E	-134.9	454.21	445.71	53.42
4813.00	4790.83	333.58S	228.09W	PAVISTMA 12-32	4701.67	4700.95	232.56S	232.25E	-135.7	479.79	471.06	54.98
4913.00	4890.22	342.75S	234.35W	PAVISTMA 12-32	4790.10	4787.59	229.20S	249.60E	-136.5	507.57	498.61	56.65
5013.00	4989.60	351.91S	240.62W	PAVISTMA 12-32	4894.59	4890.14	225.53S	269.33E	-137.3	534.70	525.54	58.36
5113.00	5088.98	361.07S	246.88W	PAVISTMA 12-32	4989.43	4983.28	222.98S	287.01E	-137.9	561.50	552.11	59.77
5213.00	5188.36	370.23S	253.15W	PAVISTMA 12-32	5094.97	5086.97	219.56S	306.36E	-138.5	588.24	578.63	61.20
5313.00	5287.74	379.40S	259.41W	PAVISTMA 12-32	5200.26	5190.89	216.68S	323.04E	-139.1	612.46	602.62	62.29
5413.00	5387.13	388.56S	265.67W	PAVISTMA 12-32	5292.16	5281.55	215.67S	338.05E	-139.5	636.80	626.73	63.21
5513.00	5486.51	397.72S	271.94W	PAVISTMA 12-32	5404.02	5391.88	214.68S	356.39E	-139.8	661.25	650.94	64.11
5613.00	5585.89	406.88S	278.20W	PAVISTMA 12-32	5532.62	5519.42	214.06S	372.78E	-140.3	682.18	671.63	64.66
5713.00	5685.27	416.05S	284.47W	PAVISTMA 12-32	5646.66	5632.99	213.89S	383.10E	-140.7	699.47	688.70	64.99
5813.00	5784.65	425.21S	290.73W	PAVISTMA 12-32	5758.51	5744.60	213.37S	390.35E	-141.2	714.39	703.43	65.20
5913.00	5884.04	434.37S	297.00W	PAVISTMA 12-32	5875.66	5861.63	213.02S	395.43E	-141.8	727.30	716.15	65.26
6013.00	5983.42	443.53S	303.26W	PAVISTMA 12-32	5982.11	5968.05	212.74S	398.15E	-142.3	738.57	727.27	65.34
6033.34	6003.63	445.40S	304.54W	PAVISTMA 12-32	6005.98	5991.91	212.59S	398.60E	-142.4	740.76	729.42	65.32
6113.00	6082.80	452.69S	309.53W	PAVISTMA 12-32	6089.77	6075.69	212.27S	399.60E	-142.9	748.81	737.36	65.37
6213.00	6182.18	461.86S	315.79W	PAVISTMA 12-32	6189.46	6175.38	212.28S	400.56E	-143.4	758.61	747.02	65.46
6313.00	6281.56	471.02S	322.06W	PAVISTMA 12-32	6290.54	6276.46	211.76S	401.35E	-143.9	768.48	756.76	65.58
6413.00	6380.95	480.18S	328.32W	PAVISTMA 12-32	6391.14	6377.06	211.06S	401.79E	-144.4	778.14	766.30	65.70
6429.28	6397.13	481.67S	329.34W	PAVISTMA 12-32	6407.31	6393.23	210.98S	401.85E	-144.5	779.69	767.83	65.72
6513.00	6480.42	489.29S	328.47W	PAVISTMA 12-32	6493.41	6479.32	210.60S	402.09E	-68.2	781.92	769.94	65.26
6613.00	6578.45	498.08S	311.51W	PAVISTMA 12-32	6596.62	6582.53	210.50S	401.79E	-41.6	769.10	756.95	63.28
6713.00	6672.07	506.29S	277.71W	PAVISTMA 12-32	6691.27	6677.18	210.05S	401.01E	-37.0	740.57	728.21	59.93
6813.00	6758.44	513.66S	228.11W	PAVISTMA 12-32	6781.04	6766.94	209.67S	399.87E	-38.4	697.74	685.11	55.26
6913.00	6834.94	519.98S	164.21W	PAVISTMA 12-32	6857.31	6843.19	209.41S	398.70E	-43.6	642.96	629.99	49.57
7013.00	6899.23	525.05S	87.96W	PAVISTMA 12-32	6921.49	6907.37	209.31S	397.68E	-52.4	579.31	565.87	43.12
7113.00	6949.38	528.72S	1.66W	PAVISTMA 12-32	6971.69	6957.56	209.46S	396.87E	-64.6	510.71	496.64	36.31
7213.00	6983.84	530.88S	92.05E	PAVISTMA 12-32	7004.59	6990.45	209.62S	396.32E	-77.5	442.53	427.64	29.73
7313.00	7001.58	531.46S	190.33E	PAVISTMA 12-32	7020.67	7006.54	209.69S	396.05E	-87.5	381.93	366.07	24.08
7365.76	7004.00	531.12S	243.02E	PAVISTMA 12-32	7022.20	7008.07	209.70S	396.02E	-90.7	356.00	339.62	21.74
7413.00	7004.00	530.61S	290.26E	PAVISTMA 12-32	7021.41	7007.27	209.70S	396.03E	-90.6	337.92	321.15	20.15

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7513.00	7004.00	529.55S	390.25E	PAVISTMA 12-32	7019.72	7005.58	209.69S	396.06E	-90.3	319.92	302.77	18.66
7522.22	7004.00	529.45S	399.47E	PAVISTMA 12-32	7019.56	7005.43	209.69S	396.07E	-90.3	319.78	302.64	18.66
7613.00	7004.00	528.48S	490.24E	PAVISTMA 12-32	7018.03	7003.90	209.68S	396.09E	-90.0	332.41	315.70	19.89
7713.00	7004.00	527.42S	590.24E	PAVISTMA 12-32	7016.35	7002.21	209.67S	396.12E	-89.7	372.35	356.54	23.54
7813.00	7004.00	526.35S	690.23E	PAVISTMA 12-32	7014.66	7000.52	209.66S	396.15E	-89.4	432.19	417.27	28.97
7913.00	7004.00	525.29S	790.23E	PAVISTMA 12-32	7012.97	6998.84	209.66S	396.18E	-89.1	504.90	490.67	35.49
8013.00	7004.00	524.22S	890.22E	PAVISTMA 12-32	7011.28	6997.15	209.65S	396.20E	-88.8	585.71	571.97	42.62
8113.00	7004.00	523.16S	990.22E	PAVISTMA 12-32	7009.60	6995.46	209.64S	396.23E	-88.5	671.70	658.29	50.07
8213.00	7004.00	522.09S	1090.21E	PAVISTMA 12-32	7007.91	6993.78	209.63S	396.26E	-88.2	761.12	747.92	57.67
8313.00	7004.00	521.02S	1190.21E	PAVISTMA 12-32	7006.22	6992.09	209.63S	396.29E	-87.9	852.89	839.82	65.30
8413.00	7004.00	519.96S	1290.20E	PAVISTMA 12-32	7004.54	6990.40	209.62S	396.32E	-87.6	946.32	933.34	72.92
8513.00	7004.00	518.89S	1390.19E	PAVISTMA 12-32	7002.85	6988.72	209.61S	396.35E	-87.3	1040.97	1028.04	80.50
8613.00	7004.00	517.83S	1490.19E	PAVISTMA 12-32	7001.16	6987.03	209.60S	396.37E	-87.0	1136.54	1123.63	88.02
8713.00	7004.00	516.76S	1590.18E	PAVISTMA 12-32	6999.48	6985.34	209.59S	396.40E	-86.7	1232.81	1219.89	95.47
8813.00	7004.00	515.70S	1690.18E	PAVISTMA 12-32	6997.79	6983.66	209.59S	396.43E	-86.4	1329.62	1316.69	102.84
8913.00	7004.00	514.63S	1790.17E	PAVISTMA 12-32	6996.10	6981.97	209.58S	396.46E	-86.1	1426.88	1413.92	110.14
9013.00	7004.00	513.57S	1890.17E	PAVISTMA 12-32	6994.41	6980.28	209.57S	396.49E	-85.8	1524.48	1511.49	117.35
9113.00	7004.00	512.50S	1990.16E	PAVISTMA 12-32	6992.73	6978.60	209.56S	396.52E	-85.5	1622.38	1609.35	124.48
9213.00	7004.00	511.44S	2090.15E	PAVISTMA 12-32	6991.04	6976.91	209.55S	396.55E	-85.2	1720.52	1707.44	131.54
9313.00	7004.00	510.37S	2190.15E	PAVISTMA 12-32	6989.35	6975.22	209.55S	396.57E	-84.9	1818.86	1805.72	138.51
9413.00	7004.00	509.31S	2290.14E	PAVISTMA 12-32	6987.67	6973.54	209.54S	396.60E	-84.6	1917.36	1904.18	145.40
9513.00	7004.00	508.24S	2390.14E	PAVISTMA 12-32	6985.98	6971.85	209.53S	396.63E	-84.3	2016.02	2002.77	152.22
9613.00	7004.00	507.17S	2490.13E	PAVISTMA 12-32	6984.29	6970.16	209.52S	396.66E	-84.0	2114.80	2101.49	158.96
9713.00	7004.00	506.11S	2590.13E	PAVISTMA 12-32	6982.61	6968.48	209.52S	396.69E	-83.7	2213.69	2200.32	165.63
9813.00	7004.00	505.04S	2690.12E	PAVISTMA 12-32	6980.92	6966.79	209.51S	396.72E	-83.4	2312.67	2299.24	172.23
9913.00	7004.00	503.98S	2790.11E	PAVISTMA 12-32	6979.23	6965.10	209.50S	396.74E	-83.1	2411.73	2398.24	178.75
10013.00	7004.00	502.91S	2890.11E	PAVISTMA 12-32	6977.54	6963.42	209.49S	396.77E	-82.8	2510.87	2497.31	185.20
10113.00	7004.00	501.85S	2990.10E	PAVISTMA 12-32	6975.86	6961.73	209.48S	396.80E	-82.5	2610.07	2596.45	191.58
10213.00	7004.00	500.78S	3090.10E	PAVISTMA 12-32	6974.17	6960.04	209.48S	396.83E	-82.2	2709.33	2695.64	197.89
10313.00	7004.00	499.72S	3190.09E	PAVISTMA 12-32	6972.48	6958.35	209.47S	396.86E	-81.9	2808.64	2794.89	204.14
10413.00	7004.00	498.65S	3290.09E	PAVISTMA 12-32	6970.80	6956.67	209.46S	396.89E	-81.6	2908.00	2894.18	210.32
10513.00	7004.00	497.59S	3390.08E	PAVISTMA 12-32	6969.11	6954.98	209.45S	396.91E	-81.3	3007.40	2993.51	216.44
10613.00	7004.00	496.52S	3490.07E	PAVISTMA 12-32	6967.42	6953.29	209.44S	396.94E	-81.0	3106.84	3092.88	222.49
10713.00	7004.00	495.46S	3590.07E	PAVISTMA 12-32	6965.74	6951.61	209.44S	396.97E	-80.7	3206.31	3192.28	228.48
10813.00	7004.00	494.39S	3690.06E	PAVISTMA 12-32	6964.05	6949.92	209.43S	397.00E	-80.4	3305.81	3291.71	234.40
10913.00	7004.00	493.32S	3790.06E	PAVISTMA 12-32	6962.36	6948.23	209.42S	397.03E	-80.1	3405.34	3391.17	240.27
11013.00	7004.00	492.26S	3890.05E	PAVISTMA 12-32	6960.67	6946.55	209.41S	397.06E	-79.8	3504.90	3490.66	246.08

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Wellpath: PAVISTMA 5 #1-5-32-090-4-NH (PWP#1)



Clearance Data

Reference MD[ft]	Reference TVD[ft]	Reference North[ft]	Reference East[ft]	Offset Well	Offset MD[ft]	Offset TVD[ft]	Offset North[ft]	Offset East[ft]	Angle From Highside [deg]	Closest Approach Distance [ft]	Ellipse Separation [ft]	Clearance Factor
11113.00	7004.00	491.19S	3990.05E	PAVISTMA 12-32	6958.99	6944.86	209.41S	397.08E	-79.5	3604.48	3590.17	251.82
11213.00	7004.00	490.13S	4090.04E	PAVISTMA 12-32	6957.30	6943.17	209.40S	397.11E	-79.2	3704.08	3689.70	257.51
11313.00	7004.00	489.06S	4190.03E	PAVISTMA 12-32	6955.61	6941.49	209.39S	397.14E	-79.0	3803.70	3789.25	263.15
11413.00	7004.00	488.00S	4290.03E	PAVISTMA 12-32	6953.93	6939.80	209.38S	397.17E	-78.7	3903.35	3888.82	268.73
11513.00	7004.00	486.93S	4390.02E	PAVISTMA 12-32	6952.24	6938.11	209.37S	397.20E	-78.4	4003.00	3988.41	274.25
11613.00	7004.00	485.87S	4490.02E	PAVISTMA 12-32	6951.00	6936.87	209.37S	397.22E	-78.2	4102.68	4088.01	279.72
11653.56	7004.00	485.43S	4530.58E	PAVISTMA 12-32	6951.00	6936.87	209.37S	397.22E	-78.2	4143.11	4128.41	281.79

Offset Wellbore Survey Tool Programs

Well	Wellbore	Survey Name	MD[ft]	Survey Tool	Error Model
PAVISTMA 12-32	PAVISTMA 12-32 (AWB)	ACTUAL	7485.00	ISCWSA MWD	Rev 0

Clearance Data

Reference MD[ft]	Reference TVD[ft]	Reference North[ft]	Reference East[ft]	Offset Well	Offset MD[ft]	Offset TVD[ft]	Offset North[ft]	Offset East[ft]	Angle From Highside [deg]	Closest Approach Distance [ft]	Ellipse Separation [ft]	Clearance Factor
13.00	13.00	0.00N	0.00E	PAVISTMA 19-32	0.00	13.00	296.77S	12.83E	177.5	297.05	297.05	
113.00	113.00	0.00N	0.00E	PAVISTMA 19-32	99.61	112.60	296.91S	12.66E	177.6	297.18	296.17	294.98
213.00	213.00	0.00N	0.00E	PAVISTMA 19-32	198.81	211.81	297.21S	12.30E	177.6	297.47	296.00	202.29
259.06	259.06	0.00N	0.00E	PAVISTMA 19-32	244.88	257.87	297.40S	12.07E	177.7	297.65	296.00	179.81
313.00	313.00	0.00N	0.00E	PAVISTMA 19-32	298.02	311.01	297.67S	11.75E	177.7	297.91	296.07	161.50
413.00	413.00	0.00N	0.00E	PAVISTMA 19-32	398.01	411.00	298.38S	10.91E	177.9	298.58	296.41	137.31
513.00	513.00	0.00N	0.00E	PAVISTMA 19-32	497.20	510.18	299.28S	9.83E	178.1	299.46	296.98	121.10
613.00	613.00	0.00N	0.00E	PAVISTMA 19-32	596.37	609.34	300.35S	8.56E	178.4	300.49	297.74	109.26
713.00	713.00	0.00N	0.00E	PAVISTMA 19-32	696.35	709.30	301.61S	7.06E	178.7	301.72	298.70	100.14
813.00	813.00	0.00N	0.00E	PAVISTMA 19-32	795.50	808.42	303.12S	5.26E	179.0	303.20	299.94	92.96
913.00	913.00	0.00N	0.00E	PAVISTMA 19-32	895.55	908.44	304.67S	3.14E	179.4	304.72	301.29	88.82
1013.00	1013.00	0.00N	0.00E	PAVISTMA 19-32	994.54	1007.39	306.25S	0.75E	179.9	306.31	302.77	86.61
1113.00	1112.98	1.44S	0.99W	PAVISTMA 19-32	1089.38	1102.17	308.89S	0.69E	-34.6	307.64	304.01	84.71
1213.00	1212.84	5.76S	3.94W	PAVISTMA 19-32	1186.13	1198.81	312.81S	2.95E	-35.6	307.44	303.72	82.56
1223.22	1223.03	6.37S	4.36W	PAVISTMA 19-32	1192.33	1205.01	313.09S	3.16E	-35.7	307.34	303.60	82.33
1313.00	1312.45	12.95S	8.86W	PAVISTMA 19-32	1286.78	1299.21	317.46S	8.30E	-37.6	305.27	301.46	80.05
1331.63	1330.97	14.61S	9.99W	PAVISTMA 19-32	1306.98	1319.32	318.21S	10.01E	-38.1	304.48	300.65	79.50
1413.00	1411.84	22.07S	15.09W	PAVISTMA 19-32	1384.01	1395.81	320.36S	18.83E	-40.8	300.64	296.73	76.91
1419.65	1418.45	22.68S	15.51W	PAVISTMA 19-32	1381.33	1393.16	320.25S	18.48E	-40.7	300.58	296.66	76.75
1505.78	1504.05	30.57S	20.90W	PAVISTMA 19-32	1468.46	1479.38	324.46S	30.19E	-44.0	299.32	295.30	74.50
1513.00	1511.22	31.23S	21.35W	PAVISTMA 19-32	1475.52	1486.37	324.87S	31.19E	-44.3	299.34	295.31	74.32
1613.00	1610.60	40.39S	27.62W	PAVISTMA 19-32	1570.15	1579.72	330.87S	45.40E	-48.2	301.10	296.92	72.05
1713.00	1709.99	49.55S	33.88W	PAVISTMA 19-32	1666.23	1674.30	337.11S	61.16E	-52.2	304.95	300.59	69.92
1813.00	1809.37	58.72S	40.15W	PAVISTMA 19-32	1758.13	1764.57	344.02S	76.88E	-56.1	311.61	307.04	68.28

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SYSDRILL
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Wellpath: PAVISTMA 5 #1-5-32-090-4-NH (PWP#1)



Clearance Data

Reference MD[ft]	Reference TVD[ft]	Reference North[ft]	Reference East[ft]	Offset Well	Offset MD[ft]	Offset TVD[ft]	Offset North[ft]	Offset East[ft]	Angle From Highside [deg]	Closest Approach Distance [ft]	Ellipse Separation [ft]	Clearance Factor
1913.00	1908.75	67.88S	46.41W	19-32 PAVISTMA	1844.03	1848.52	352.75S	92.86E	-59.5	322.76	317.99	67.67
1948.70	1944.23	71.15S	48.65W	19-32 PAVISTMA	1877.16	1880.83	356.69S	99.01E	-60.8	327.65	322.80	67.56
2013.00	2008.13	77.04S	52.68W	19-32 PAVISTMA	1936.41	1938.62	364.38S	109.64E	-62.8	337.25	332.26	67.58
2014.31	2009.44	77.16S	52.76W	19-32 PAVISTMA	1937.69	1939.86	364.55S	109.86E	-62.8	337.46	332.47	67.57
2113.00	2107.52	86.20S	58.94W	19-32 PAVISTMA	2026.96	2026.55	376.50S	127.53E	-65.8	354.40	349.19	67.92
2213.00	2206.90	95.37S	65.21W	19-32 PAVISTMA	2120.08	2116.46	388.45S	148.55E	-69.1	373.85	368.39	68.39
2313.00	2306.28	104.53S	71.47W	19-32 PAVISTMA	2213.17	2206.32	401.58S	168.97E	-71.9	395.03	389.31	69.12
2413.00	2405.66	113.69S	77.74W	19-32 PAVISTMA	2303.50	2293.41	415.81S	188.29E	-74.1	417.91	411.95	70.14
2513.00	2505.04	122.85S	84.00W	19-32 PAVISTMA	2395.00	2381.32	430.58S	208.94E	-76.2	442.51	436.30	71.17
2613.00	2604.43	132.01S	90.26W	19-32 PAVISTMA	2479.97	2462.43	444.20S	230.24E	-78.2	469.41	462.92	72.34
2713.00	2703.81	141.18S	96.53W	19-32 PAVISTMA	2566.53	2544.38	457.35S	254.80E	-80.3	498.81	492.03	73.49
2813.00	2803.19	150.34S	102.79W	19-32 PAVISTMA	2667.69	2640.03	471.41S	284.57E	-82.7	528.92	521.80	74.20
2913.00	2902.57	159.50S	109.06W	19-32 PAVISTMA	2769.46	2736.84	484.44S	313.12E	-84.8	557.93	550.46	74.67
3013.00	3001.95	168.66S	115.32W	19-32 PAVISTMA	2854.51	2817.62	495.17S	337.43E	-86.5	587.85	580.07	75.51
3113.00	3101.34	177.83S	121.59W	19-32 PAVISTMA	2948.15	2906.33	507.83S	364.65E	-88.1	619.16	611.03	76.13
3129.80	3118.03	179.37S	122.64W	19-32 PAVISTMA	2968.43	2925.55	510.50S	370.51E	-88.4	624.41	616.21	76.11
3213.00	3200.72	186.99S	127.85W	19-32 PAVISTMA	3053.38	3006.39	521.11S	394.37E	-89.8	649.71	641.19	76.32
3310.24	3297.36	195.90S	133.94W	19-32 PAVISTMA	3166.38	3114.68	534.22S	423.85E	-91.3	677.47	668.57	76.11
3313.00	3300.10	196.15S	134.12W	19-32 PAVISTMA	3169.00	3117.20	534.51S	424.50E	-91.4	678.23	669.32	76.12
3392.27	3378.88	203.41S	139.08W	19-32 PAVISTMA	3256.58	3201.64	544.17S	445.63E	-92.4	699.58	690.37	75.98
3413.00	3399.48	205.31S	140.38W	19-32 PAVISTMA	3276.40	3220.81	546.25S	450.22E	-92.7	704.96	695.69	76.00
3513.00	3498.87	214.48S	146.65W	19-32 PAVISTMA	3381.11	3322.29	556.65S	473.84E	-93.9	730.25	720.62	75.83
3613.00	3598.25	223.64S	152.91W	19-32 PAVISTMA	3472.14	3410.53	566.05S	494.15E	-94.8	755.76	745.80	75.89
3621.92	3607.12	224.46S	153.47W	19-32 PAVISTMA	3480.69	3418.81	566.95S	496.07E	-94.9	758.07	748.08	75.88
3713.00	3697.63	232.80S	159.18W	19-32 PAVISTMA	3557.67	3493.20	574.99S	514.15E	-95.7	782.47	772.18	76.06
3736.75	3721.24	234.98S	160.66W	19-32 PAVISTMA	3580.32	3515.06	577.34S	519.59E	-95.9	788.97	778.59	76.05
3813.00	3797.01	241.96S	165.44W	19-32 PAVISTMA	3648.25	3580.51	584.29S	536.39E	-96.6	810.33	799.69	76.16
3884.39	3867.96	248.50S	169.91W	19-32 PAVISTMA	3721.08	3650.75	591.92S	554.03E	-97.2	830.19	819.27	76.06
3913.00	3896.39	251.12S	171.70W	19-32 PAVISTMA	3745.59	3674.39	594.69S	559.90E	-97.4	838.19	827.17	76.08
3917.20	3900.57	251.51S	171.97W	19-32 PAVISTMA	3749.59	3678.26	595.14S	560.85E	-97.5	839.37	828.33	76.07
4013.00	3995.78	260.29S	177.97W	19-32 PAVISTMA	3818.00	3743.88	604.12S	577.92E	-97.9	867.78	856.44	76.53
4113.00	4095.16	269.45S	184.23W	19-32 PAVISTMA	3908.42	3830.26	617.02S	601.34E	-98.5	898.94	887.21	76.61
4213.00	4194.54	278.61S	190.50W	19-32 PAVISTMA	3985.19	3903.36	628.39S	621.86E	-98.9	931.16	919.06	76.97
4313.00	4293.92	287.77S	196.76W	19-32 PAVISTMA	4122.56	4034.55	649.12S	656.84E	-99.6	962.54	949.89	76.09
4413.00	4393.30	296.94S	203.03W	19-32 PAVISTMA	4217.87	4126.26	662.59S	679.00E	-100.0	991.46	978.41	75.95
4491.35	4471.17	304.11S	207.94W	19-32 PAVISTMA	4292.68	4198.27	672.63S	696.64E	-100.4	1014.17	1000.79	75.83
4513.00	4492.69	306.10S	209.29W	19-32 PAVISTMA	4306.72	4211.76	674.47S	700.06E	-100.4	1020.56	1007.11	75.91

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Clearance Data

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4524.15	4503.77	307.12S	209.99W	19-32 PAVISTMA	4317.34	4221.96	675.86S	702.65E	-100.5	1023.86	1010.37	75.88
4613.00	4592.07	315.26S	215.56W	19-32 PAVISTMA	4374.56	4276.70	683.56S	717.41E	-100.8	1051.45	1037.67	76.30
4713.00	4691.45	324.42S	221.82W	19-32 PAVISTMA	4445.45	4344.01	693.79S	737.15E	-101.1	1084.79	1070.65	76.70
4813.00	4790.83	333.58S	228.09W	19-32 PAVISTMA	4556.02	4448.55	710.89S	768.86E	-101.6	1119.57	1104.91	76.39
4913.00	4890.22	342.75S	234.35W	19-32 PAVISTMA	4664.46	4551.97	726.29S	797.58E	-102.0	1151.69	1136.55	76.04
4917.86	4895.04	343.19S	234.66W	19-32 PAVISTMA	4669.05	4556.36	726.93S	798.78E	-102.0	1153.24	1138.07	76.04
5013.00	4989.60	351.91S	240.62W	19-32 PAVISTMA	4737.40	4621.54	736.22S	817.12E	-102.3	1184.05	1168.54	76.33
5113.00	5088.98	361.07S	246.88W	19-32 PAVISTMA	4828.59	4708.11	748.39S	843.05E	-102.7	1217.79	1201.84	76.34
5147.51	5123.28	364.23S	249.04W	19-32 PAVISTMA	4860.97	4738.85	752.81S	852.22E	-102.8	1229.45	1213.35	76.33
5213.00	5188.36	370.23S	253.15W	19-32 PAVISTMA	4911.00	4786.28	759.97S	866.44E	-103.0	1251.81	1235.45	76.48
5313.00	5287.74	379.40S	259.41W	19-32 PAVISTMA	4992.98	4863.67	772.71S	890.31E	-103.2	1287.01	1270.22	76.67
5413.00	5387.13	388.56S	265.67W	19-32 PAVISTMA	5098.90	4963.56	788.49S	921.80E	-103.6	1322.67	1305.36	76.44
5513.00	5486.51	397.72S	271.94W	19-32 PAVISTMA	5382.04	5236.76	820.89S	987.57E	-104.5	1351.96	1333.67	73.93
5613.00	5585.89	406.88S	278.20W	19-32 PAVISTMA	5544.54	5397.14	832.25S	1011.05E	-105.2	1370.67	1351.93	73.14
5713.00	5685.27	416.05S	284.47W	19-32 PAVISTMA	5695.54	5547.12	839.41S	1026.91E	-105.8	1384.93	1365.83	72.50
5813.00	5784.65	425.21S	290.73W	19-32 PAVISTMA	5797.10	5648.18	843.65S	1036.02E	-106.2	1397.85	1378.46	72.07
5913.00	5884.04	434.37S	297.00W	19-32 PAVISTMA	5901.79	5752.38	848.18S	1045.10E	-106.6	1410.60	1390.91	71.63
6013.00	5983.42	443.53S	303.26W	19-32 PAVISTMA	6063.05	5913.20	854.10S	1055.20E	-107.1	1420.89	1400.89	71.04
6113.00	6082.80	452.69S	309.53W	19-32 PAVISTMA	6183.13	6033.17	856.15S	1059.87E	-107.6	1428.45	1408.20	70.53
6213.00	6182.18	461.86S	315.79W	19-32 PAVISTMA	6296.65	6146.64	857.33S	1063.07E	-108.1	1434.90	1414.41	70.02
6313.00	6281.56	471.02S	322.06W	19-32 PAVISTMA	6411.46	6261.42	857.48S	1065.40E	-108.6	1440.42	1419.70	69.52
6413.00	6380.95	480.18S	328.32W	19-32 PAVISTMA	6514.44	6364.39	857.16S	1066.90E	-109.1	1445.35	1424.41	69.02
6429.28	6397.13	481.67S	329.34W	19-32 PAVISTMA	6530.60	6380.55	857.11S	1067.11E	-109.1	1446.13	1425.15	68.94
6513.00	6480.42	489.29S	328.47W	19-32 PAVISTMA	6617.55	6467.49	856.92S	1068.09E	-32.6	1444.20	1423.06	68.32
6613.00	6578.45	498.08S	311.51W	19-32 PAVISTMA	6720.56	6570.50	857.48S	1068.58E	-4.1	1426.14	1404.88	67.07
6713.00	6672.07	506.29S	277.71W	19-32 PAVISTMA	6826.56	6676.49	858.43S	1068.73E	4.5	1391.73	1370.42	65.28
6813.00	6758.44	513.66S	228.11W	19-32 PAVISTMA	6914.16	6764.09	859.30S	1068.15E	9.8	1341.57	1320.27	63.01
6913.00	6834.94	519.98S	164.21W	19-32 PAVISTMA	6985.90	6835.82	859.97S	1067.76E	15.1	1278.03	1256.84	60.33
7013.00	6899.23	525.05S	87.96W	19-32 PAVISTMA	7047.01	6896.93	860.38S	1067.71E	22.0	1203.34	1182.34	57.32
7113.00	6949.38	528.72S	1.66W	19-32 PAVISTMA	7093.36	6943.28	860.70S	1067.86E	32.6	1119.87	1099.16	54.07
7213.00	6983.84	530.88S	92.05E	19-32 PAVISTMA	7123.54	6973.46	861.01S	1068.04E	49.8	1030.37	1010.03	50.67
7313.00	7001.58	531.46S	190.33E	19-32 PAVISTMA	7141.96	6991.88	861.21S	1068.17E	74.8	937.78	917.91	47.19
7365.76	7004.00	531.12S	243.02E	19-32 PAVISTMA	7144.74	6994.65	861.24S	1068.19E	88.4	888.81	869.20	45.33
7413.00	7004.00	530.61S	290.26E	19-32 PAVISTMA	7145.06	6994.97	861.25S	1068.19E	88.5	845.33	825.96	43.64
7513.00	7004.00	529.55S	390.25E	19-32 PAVISTMA	7145.73	6995.65	861.25S	1068.20E	88.6	754.79	735.87	39.90
7613.00	7004.00	528.48S	490.24E	19-32 PAVISTMA	7146.00	6995.92	861.26S	1068.20E	88.6	666.96	648.29	35.73
7713.00	7004.00	527.42S	590.24E	19-32 PAVISTMA	7146.76	6996.67	861.26S	1068.20E	88.8	583.06	564.16	30.85

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SYSDRILL
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Wellbore: PAVISTMA 5 #1-5-32-090-4-NH (PWB)
Wellpath: PAVISTMA 5 #1-5-32-090-4-NH (PWP#1)



Clearance Data

Reference MD[ft]	Reference TVD[ft]	Reference North[ft]	Reference East[ft]	Offset Well	Offset MD[ft]	Offset TVD[ft]	Offset North[ft]	Offset East[ft]	Angle From Highside [deg]	Closest Approach Distance [ft]	Ellipse Separation [ft]	Clearance Factor
7813.00	7004.00	526.35S	690.23E	19-32 PAVISTMA	7147.56	6997.47	861.27S	1068.21E	88.9	505.06	484.93	25.09
7913.00	7004.00	525.29S	790.23E	19-32 PAVISTMA	7148.35	6998.27	861.28S	1068.22E	89.0	436.12	413.11	18.95
8013.00	7004.00	524.22S	890.22E	19-32 PAVISTMA	7149.15	6999.07	861.29S	1068.22E	89.2	381.21	353.20	13.61
8113.00	7004.00	523.16S	990.22E	19-32 PAVISTMA	7149.95	6999.87	861.30S	1068.23E	89.3	347.05	312.50	10.04
8187.41	7004.00	522.36S	1064.62E	19-32 PAVISTMA	7150.55	7000.46	861.30S	1068.24E	89.4	338.98	299.76	8.64
8198.70	7004.00	522.24S	1075.91E	19-32 PAVISTMA	7150.64	7000.55	861.30S	1068.24E	89.4	339.17	299.34	8.52
8213.00	7004.00	522.09S	1090.21E	19-32 PAVISTMA	7150.75	7000.67	861.30S	1068.24E	89.4	339.94	299.39	8.38
8313.00	7004.00	521.02S	1190.21E	19-32 PAVISTMA	7151.55	7001.46	861.31S	1068.24E	89.6	361.49	317.49	8.22
8413.00	7004.00	519.96S	1290.20E	19-32 PAVISTMA	7152.35	7002.26	861.32S	1068.25E	89.7	407.18	362.37	9.09
8513.00	7004.00	518.89S	1390.19E	19-32 PAVISTMA	7153.15	7003.06	861.33S	1068.26E	89.8	470.01	425.92	10.66
8613.00	7004.00	517.83S	1490.19E	19-32 PAVISTMA	7153.94	7003.86	861.34S	1068.26E	90.0	544.08	501.24	12.70
8713.00	7004.00	516.76S	1590.18E	19-32 PAVISTMA	7154.74	7004.66	861.35S	1068.27E	90.1	625.41	583.89	15.06
8813.00	7004.00	515.70S	1690.18E	19-32 PAVISTMA	7155.54	7005.46	861.35S	1068.28E	90.3	711.51	671.19	17.65
8913.00	7004.00	514.63S	1790.17E	19-32 PAVISTMA	7156.34	7006.26	861.36S	1068.28E	90.4	800.84	761.58	20.40
9013.00	7004.00	513.57S	1890.17E	19-32 PAVISTMA	7157.14	7007.05	861.37S	1068.29E	90.5	892.45	854.07	23.26
9113.00	7004.00	512.50S	1990.16E	19-32 PAVISTMA	7157.94	7007.85	861.38S	1068.30E	90.7	985.68	948.07	26.20
9213.00	7004.00	511.44S	2090.15E	19-32 PAVISTMA	7158.74	7008.65	861.39S	1068.30E	90.8	1080.13	1043.15	29.21
9313.00	7004.00	510.37S	2190.15E	19-32 PAVISTMA	7159.53	7009.45	861.40S	1068.31E	90.9	1175.49	1139.06	32.27
9413.00	7004.00	509.31S	2290.14E	19-32 PAVISTMA	7160.33	7010.25	861.40S	1068.31E	91.1	1271.56	1235.61	35.36
9513.00	7004.00	508.24S	2390.14E	19-32 PAVISTMA	7161.13	7011.05	861.41S	1068.32E	91.2	1368.20	1332.65	38.48
9613.00	7004.00	507.17S	2490.13E	19-32 PAVISTMA	7161.93	7011.84	861.42S	1068.33E	91.3	1465.29	1430.08	41.62
9713.00	7004.00	506.11S	2590.13E	19-32 PAVISTMA	7162.73	7012.64	861.43S	1068.33E	91.5	1562.75	1527.84	44.77
9813.00	7004.00	505.04S	2690.12E	19-32 PAVISTMA	7163.53	7013.44	861.44S	1068.34E	91.6	1660.50	1625.86	47.93
9913.00	7004.00	503.98S	2790.11E	19-32 PAVISTMA	7164.33	7014.24	861.45S	1068.35E	91.7	1758.51	1724.10	51.10
10013.00	7004.00	502.91S	2890.11E	19-32 PAVISTMA	7165.12	7015.04	861.45S	1068.35E	91.9	1856.74	1822.52	54.27
10113.00	7004.00	501.85S	2990.10E	19-32 PAVISTMA	7165.92	7015.84	861.46S	1068.36E	92.0	1955.14	1921.10	57.44
10213.00	7004.00	500.78S	3090.10E	19-32 PAVISTMA	7166.72	7016.64	861.47S	1068.37E	92.1	2053.69	2019.81	60.61
10313.00	7004.00	499.72S	3190.09E	19-32 PAVISTMA	7167.52	7017.43	861.48S	1068.37E	92.3	2152.38	2118.63	63.78
10413.00	7004.00	498.65S	3290.09E	19-32 PAVISTMA	7168.32	7018.23	861.49S	1068.38E	92.4	2251.18	2217.56	66.95
10513.00	7004.00	497.59S	3390.08E	19-32 PAVISTMA	7169.12	7019.03	861.50S	1068.39E	92.5	2350.09	2316.57	70.11
10613.00	7004.00	496.52S	3490.07E	19-32 PAVISTMA	7169.92	7019.83	861.50S	1068.39E	92.7	2449.08	2415.65	73.26
10713.00	7004.00	495.46S	3590.07E	19-32 PAVISTMA	7170.71	7020.63	861.51S	1068.40E	92.8	2548.16	2514.81	76.41
10813.00	7004.00	494.39S	3690.06E	19-32 PAVISTMA	7171.51	7021.43	861.52S	1068.40E	92.9	2647.30	2614.02	79.55
10913.00	7004.00	493.32S	3790.06E	19-32 PAVISTMA	7172.31	7022.23	861.53S	1068.41E	93.1	2746.50	2713.29	82.69
11013.00	7004.00	492.26S	3890.05E	19-32 PAVISTMA	7173.11	7023.02	861.54S	1068.42E	93.2	2845.76	2812.60	85.82
11113.00	7004.00	491.19S	3990.05E	19-32 PAVISTMA	7173.91	7023.82	861.54S	1068.42E	93.3	2945.07	2911.95	88.93
11213.00	7004.00	490.13S	4090.04E	19-32 PAVISTMA	7174.71	7024.62	861.55S	1068.43E	93.5	3044.42	3011.35	92.04

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Clearance Data

Reference MD[ft]	Reference TVD[ft]	Reference North[ft]	Reference East[ft]	Offset Well	Offset MD[ft]	Offset TVD[ft]	Offset North[ft]	Offset East[ft]	Angle From Highside [deg]	Closest Approach Distance [ft]	Ellipse Separation [ft]	Clearance Factor
11313.00	7004.00	489.06S	4190.03E	19-32 PAVISTMA	7175.51	7025.42	861.56S	1068.44E	93.6	3143.82	3110.77	95.15
11413.00	7004.00	488.00S	4290.03E	19-32 PAVISTMA	7176.30	7026.22	861.57S	1068.44E	93.8	3243.25	3210.23	98.24
11513.00	7004.00	486.93S	4390.02E	19-32 PAVISTMA	7177.10	7027.02	861.58S	1068.45E	93.9	3342.71	3309.72	101.32
11613.00	7004.00	485.87S	4490.02E	19-32 PAVISTMA	7177.90	7027.81	861.59S	1068.46E	94.0	3442.21	3409.24	104.39
11653.56	7004.00	485.43S	4530.58E	19-32 PAVISTMA	7178.22	7028.14	861.59S	1068.46E	94.1	3482.58	3449.61	105.62

Offset Wellbore Survey Tool Programs

Well	Wellbore	Survey Name	MD[ft]	Survey Tool	Error Model
PAVISTMA 19-32	PAVISTMA 19-32 (AWB)	ACTUAL	7623.00	ISCWSA MWD	Rev 0

Clearance Data

Reference MD[ft]	Reference TVD[ft]	Reference North[ft]	Reference East[ft]	Offset Well	Offset MD[ft]	Offset TVD[ft]	Offset North[ft]	Offset East[ft]	Angle From Highside [deg]	Closest Approach Distance [ft]	Ellipse Separation [ft]	Clearance Factor
13.00	13.00	0.00N	0.00E	PAVISTMA	0.00	13.00	268.38S	7.91E	178.3	268.50	268.50	
113.00	113.00	0.00N	0.00E	11-32 PAVISTMA	99.78	112.78	268.47S	7.81E	178.3	268.58	267.60	274.61
213.00	213.00	0.00N	0.00E	11-32 PAVISTMA	199.78	212.78	268.55S	7.71E	178.3	268.66	267.23	187.74
313.00	313.00	0.00N	0.00E	11-32 PAVISTMA	299.34	312.34	268.80S	7.42E	178.4	268.90	267.10	149.72
413.00	413.00	0.00N	0.00E	11-32 PAVISTMA	399.34	412.34	269.05S	7.12E	178.5	269.14	267.03	127.10
423.10	423.10	0.00N	0.00E	11-32 PAVISTMA	409.01	422.01	269.08S	7.09E	178.5	269.17	267.03	125.31
513.00	513.00	0.00N	0.00E	11-32 PAVISTMA	498.90	511.90	269.46S	6.64E	178.6	269.54	267.13	111.87
613.00	613.00	0.00N	0.00E	11-32 PAVISTMA	598.90	611.90	269.88S	6.13E	178.7	269.95	267.27	100.66
713.00	713.00	0.00N	0.00E	11-32 PAVISTMA	698.46	711.45	270.44S	5.46E	178.8	270.50	267.57	92.07
813.00	813.00	0.00N	0.00E	11-32 PAVISTMA	798.45	811.44	271.03S	4.75E	179.0	271.08	267.90	85.17
913.00	913.00	0.00N	0.00E	11-32 PAVISTMA	898.70	911.68	271.60S	4.10E	179.1	271.64	268.34	82.41
1013.00	1013.00	0.00N	0.00E	11-32 PAVISTMA	997.56	1010.54	272.18S	4.47E	179.1	272.22	268.84	80.43
1113.00	1112.98	1.44S	0.99W	11-32 PAVISTMA	1095.04	1107.98	273.71S	6.16E	-35.9	272.41	268.93	78.28
1213.00	1212.84	5.76S	3.94W	11-32 PAVISTMA	1198.64	1211.53	274.57S	9.35E	-37.3	269.14	265.56	75.24
1313.00	1312.45	12.95S	8.86W	11-32 PAVISTMA	1299.20	1312.00	274.47S	13.70E	-39.4	262.49	258.81	71.34
1331.63	1330.97	14.61S	9.99W	11-32 PAVISTMA	1317.64	1330.41	274.42S	14.68E	-40.0	260.98	257.28	70.55
1413.00	1411.84	22.07S	15.09W	11-32 PAVISTMA	1396.50	1409.14	274.29S	19.18E	-42.2	254.56	250.77	67.15
1513.00	1511.22	31.23S	21.35W	11-32 PAVISTMA	1491.27	1503.71	275.01S	25.34E	-45.3	248.32	244.41	63.43
1613.00	1610.60	40.39S	27.62W	11-32 PAVISTMA	1591.22	1603.33	276.44S	33.30E	-48.9	243.89	239.83	60.12
1713.00	1709.99	49.55S	33.88W	11-32 PAVISTMA	1688.50	1700.11	276.66S	43.07E	-53.0	239.99	235.77	56.84
1785.86	1782.40	56.23S	38.45W	11-32 PAVISTMA	1756.52	1767.64	277.56S	51.16E	-56.2	239.24	234.88	54.89
1801.06	1797.50	57.62S	39.40W	11-32 PAVISTMA	1771.40	1782.41	277.79S	53.03E	-57.0	239.25	234.86	54.50
1813.00	1809.37	58.72S	40.15W	11-32 PAVISTMA	1782.28	1793.19	277.94S	54.47E	-57.5	239.32	234.91	54.23
1913.00	1908.75	67.88S	46.41W	11-32 PAVISTMA	1877.96	1887.81	279.13S	68.51E	-62.6	241.40	236.76	52.07
2013.00	2008.13	77.04S	52.68W	11-32 PAVISTMA	1971.49	1979.88	279.97S	84.96E	-68.0	246.83	241.94	50.54

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Clearance Data

Reference MD[ft]	Reference TVD[ft]	Reference North[ft]	Reference East[ft]	Offset Well	Offset MD[ft]	Offset TVD[ft]	Offset North[ft]	Offset East[ft]	Angle From Highside [deg]	Closest Approach Distance [ft]	Ellipse Separation [ft]	Clearance Factor
2112.74	2107.25	86.18S	58.92W	PAVISTMA 11-32	2062.00	2068.58	280.76S	102.95E	-73.3	256.05	250.90	49.71
2113.00	2107.52	86.20S	58.94W	PAVISTMA 11-32	2062.00	2068.58	280.76S	102.95E	-73.3	256.08	250.93	49.71
2129.14	2123.56	87.68S	59.95W	PAVISTMA 11-32	2076.20	2082.39	280.87S	106.24E	-74.2	258.14	252.95	49.70
2213.00	2206.90	95.37S	65.21W	PAVISTMA 11-32	2151.30	2155.11	281.50S	124.97E	-78.8	271.10	265.68	49.97
2313.00	2306.28	104.53S	71.47W	PAVISTMA 11-32	2246.42	2247.16	282.57S	148.93E	-84.1	289.43	283.73	50.81
2413.00	2405.66	113.69S	77.74W	PAVISTMA 11-32	2341.07	2339.01	284.33S	171.69E	-88.6	309.47	303.53	52.04
2513.00	2505.04	122.85S	84.00W	PAVISTMA 11-32	2427.47	2422.42	285.27S	194.20E	-92.4	332.57	326.39	53.83
2613.00	2604.43	132.01S	90.26W	PAVISTMA 11-32	2512.30	2503.44	285.37S	219.28E	-96.1	359.90	353.48	56.05
2713.00	2703.81	141.18S	96.53W	PAVISTMA 11-32	2589.98	2576.56	284.56S	245.50E	-99.4	392.09	385.43	58.88
2813.00	2803.19	150.34S	102.79W	PAVISTMA 11-32	2684.90	2665.25	282.03S	279.22E	-103.1	426.97	420.01	61.33
2913.00	2902.57	159.50S	109.06W	PAVISTMA 11-32	2778.86	2753.33	278.43S	311.73E	-106.4	462.04	454.78	63.62
3013.00	3001.95	168.66S	115.32W	PAVISTMA 11-32	2857.11	2826.45	275.69S	339.45E	-108.7	499.07	491.55	66.29
3113.00	3101.34	177.83S	121.59W	PAVISTMA 11-32	2936.01	2899.48	273.34S	369.21E	-110.8	539.21	531.39	68.97
3213.00	3200.72	186.99S	127.85W	PAVISTMA 11-32	3020.55	2977.35	271.20S	402.04E	-112.8	581.18	573.04	71.46
3313.00	3300.10	196.15S	134.12W	PAVISTMA 11-32	3105.50	3055.50	270.42S	435.33E	-114.3	624.19	615.72	73.74
3413.00	3399.48	205.31S	140.38W	PAVISTMA 11-32	3184.67	3128.02	271.02S	467.09E	-115.5	668.60	659.81	76.03
3513.00	3498.87	214.48S	146.65W	PAVISTMA 11-32	3248.00	3185.35	272.47S	493.94E	-116.3	715.55	706.46	78.78
3613.00	3598.25	223.64S	152.91W	PAVISTMA 11-32	3326.84	3256.05	276.14S	528.63E	-117.0	764.43	754.98	80.86
3713.00	3697.63	232.80S	159.18W	PAVISTMA 11-32	3404.38	3325.16	281.53S	563.37E	-117.4	814.36	804.52	82.78
3813.00	3797.01	241.96S	165.44W	PAVISTMA 11-32	3475.66	3388.34	286.54S	595.98E	-117.8	865.30	855.09	84.74
3913.00	3896.39	251.12S	171.70W	PAVISTMA 11-32	3545.92	3450.02	289.39S	629.50E	-118.3	917.95	907.36	86.67
4013.00	3995.78	260.29S	177.97W	PAVISTMA 11-32	3619.07	3513.68	288.36S	665.48E	-119.1	971.91	960.91	88.38
4113.00	4095.16	269.45S	184.23W	PAVISTMA 11-32	3674.77	3561.56	285.31S	693.76E	-119.8	1027.55	1016.21	90.65
4213.00	4194.54	278.61S	190.50W	PAVISTMA 11-32	3726.53	3605.37	282.20S	721.15E	-120.4	1085.47	1073.82	93.18
4313.00	4293.92	287.77S	196.76W	PAVISTMA 11-32	3799.59	3666.49	277.23S	760.86E	-121.3	1144.91	1132.81	94.64
4413.00	4393.30	296.94S	203.03W	PAVISTMA 11-32	3867.70	3723.19	272.04S	798.24E	-122.0	1205.08	1192.55	96.22
4513.00	4492.69	306.10S	209.29W	PAVISTMA 11-32	3939.59	3782.74	266.17S	838.10E	-122.7	1265.96	1252.98	97.56
4613.00	4592.07	315.26S	215.56W	PAVISTMA 11-32	4009.00	3839.93	260.23S	876.97E	-123.4	1327.54	1314.12	98.93
4713.00	4691.45	324.42S	221.82W	PAVISTMA 11-32	4087.79	3904.70	252.84S	921.22E	-124.2	1389.48	1375.55	99.77
4813.00	4790.83	333.58S	228.09W	PAVISTMA 11-32	4301.55	4086.81	231.60S	1030.91E	-125.9	1446.07	1430.93	95.53
4913.00	4890.22	342.75S	234.35W	PAVISTMA 11-32	4384.34	4159.05	224.69S	1070.75E	-126.5	1500.61	1484.99	96.06
4999.88	4976.55	350.71S	239.79W	PAVISTMA 11-32	4489.81	4251.63	218.85S	1120.93E	-127.0	1547.41	1531.19	95.44
5013.00	4989.60	351.91S	240.62W	PAVISTMA 11-32	4500.90	4261.43	218.46S	1126.11E	-127.1	1554.34	1538.06	95.49
5081.90	5058.07	358.22S	244.93W	PAVISTMA 11-32	4581.74	4333.10	216.84S	1163.46E	-127.3	1590.32	1573.60	95.09
5113.00	5088.98	361.07S	246.88W	PAVISTMA 11-32	4608.32	4356.74	216.63S	1175.61E	-127.4	1606.39	1589.52	95.17
5213.00	5188.36	370.23S	253.15W	PAVISTMA 11-32	4748.98	4482.40	216.03S	1238.78E	-127.7	1657.71	1640.08	94.05
5313.00	5287.74	379.40S	259.41W	PAVISTMA 11-32	4845.17	4569.47	217.18S	1279.64E	-127.9	1706.13	1687.98	94.00

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Wellpath: PAVISTMA 5 #1-5-32-090-4-NH (PWP#1)



Clearance Data

Reference MD[ft]	Reference TVD[ft]	Reference North[ft]	Reference East[ft]	Offset Well	Offset MD[ft]	Offset TVD[ft]	Offset North[ft]	Offset East[ft]	Angle From Highside [deg]	Closest Approach Distance [ft]	Ellipse Separation [ft]	Clearance Factor
5377.17	5351.52	385.28S	263.43W	PAVISTMA 11-32	4933.43	4649.60	219.06S	1316.60E	-128.0	1736.90	1718.30	93.39
5413.00	5387.13	388.56S	265.67W	PAVISTMA 11-32	4965.16	4678.53	220.08S	1329.56E	-128.0	1753.65	1734.87	93.42
5513.00	5486.51	397.72S	271.94W	PAVISTMA 11-32	5025.06	4733.06	221.77S	1354.33E	-128.1	1800.94	1781.81	94.12
5613.00	5585.89	406.88S	278.20W	PAVISTMA 11-32	5106.24	4806.54	223.42S	1388.76E	-128.1	1849.28	1829.68	94.36
5713.00	5685.27	416.05S	284.47W	PAVISTMA 11-32	5415.36	5092.64	229.32S	1505.10E	-128.5	1894.37	1873.49	90.76
5813.00	5784.65	425.21S	290.73W	PAVISTMA 11-32	5788.47	5454.27	229.99S	1594.84E	-129.2	1924.22	1902.53	88.68
5913.00	5884.04	434.37S	297.00W	PAVISTMA 11-32	5997.47	5660.84	229.36S	1626.33E	-129.7	1947.06	1925.04	88.44
6013.00	5983.42	443.53S	303.26W	PAVISTMA 11-32	6078.66	5741.48	229.41S	1635.81E	-129.9	1965.81	1943.53	88.26
6113.00	6082.80	452.69S	309.53W	PAVISTMA 11-32	6178.56	5840.60	228.29S	1648.18E	-130.1	1985.36	1962.82	88.11
6213.00	6182.18	461.86S	315.79W	PAVISTMA 11-32	6331.13	5992.32	225.62S	1664.02E	-130.5	2002.87	1980.11	87.98
6313.00	6281.56	471.02S	322.06W	PAVISTMA 11-32	6418.30	6079.07	224.04S	1672.34E	-130.8	2019.80	1996.80	87.79
6413.00	6380.95	480.18S	328.32W	PAVISTMA 11-32	6490.46	6150.80	222.33S	1680.00E	-130.9	2037.85	2014.59	87.62
6429.28	6397.13	481.67S	329.34W	PAVISTMA 11-32	6506.38	6166.62	221.91S	1681.76E	-131.0	2040.87	2017.57	87.60
6513.00	6480.42	489.29S	328.47W	PAVISTMA 11-32	6603.31	6262.95	219.14S	1692.10E	-54.4	2050.12	2026.61	87.20
6613.00	6578.45	498.08S	311.51W	PAVISTMA 11-32	6828.95	6487.80	214.69S	1709.67E	-27.0	2042.96	2019.27	86.22
6713.00	6672.07	506.29S	277.71W	PAVISTMA 11-32	6946.40	6605.16	213.60S	1714.02E	-20.5	2014.24	1990.34	84.27
6813.00	6758.44	513.66S	228.11W	PAVISTMA 11-32	7072.15	6730.89	212.88S	1716.75E	-18.7	1968.18	1944.08	81.68
6913.00	6834.94	519.98S	164.21W	PAVISTMA 11-32	7163.98	6822.71	212.24S	1717.63E	-19.2	1906.88	1882.55	78.36
7013.00	6899.23	525.05S	87.96W	PAVISTMA 11-32	7228.61	6887.33	211.66S	1717.96E	-21.6	1832.95	1808.32	74.44
7113.00	6949.38	528.72S	1.66W	PAVISTMA 11-32	7280.48	6939.20	211.28S	1718.20E	-26.9	1748.95	1724.00	70.10
7213.00	6983.84	530.88S	92.05E	PAVISTMA 11-32	7315.36	6974.08	211.04S	1718.37E	-38.3	1657.50	1632.18	65.48
7313.00	7001.58	531.46S	190.33E	PAVISTMA 11-32	7333.56	6992.27	210.91S	1718.45E	-64.8	1561.40	1535.68	60.71
7365.76	7004.00	531.12S	243.02E	PAVISTMA 11-32	7334.00	6992.72	210.91S	1718.45E	-87.9	1509.83	1483.87	58.17
7413.00	7004.00	530.61S	290.26E	PAVISTMA 11-32	7334.00	6992.72	210.91S	1718.45E	-87.9	1463.59	1437.41	55.92
7513.00	7004.00	529.55S	390.25E	PAVISTMA 11-32	7334.55	6993.27	210.90S	1718.46E	-88.0	1365.93	1339.25	51.18
7613.00	7004.00	528.48S	490.24E	PAVISTMA 11-32	7335.27	6993.99	210.90S	1718.46E	-88.1	1268.65	1241.36	46.48
7713.00	7004.00	527.42S	590.24E	PAVISTMA 11-32	7336.00	6994.71	210.90S	1718.47E	-88.3	1171.82	1143.80	41.82
7813.00	7004.00	526.35S	690.23E	PAVISTMA 11-32	7336.72	6995.43	210.90S	1718.47E	-88.4	1075.57	1046.67	37.22
7913.00	7004.00	525.29S	790.23E	PAVISTMA 11-32	7337.44	6996.16	210.89S	1718.48E	-88.5	980.08	950.09	32.69
8013.00	7004.00	524.22S	890.22E	PAVISTMA 11-32	7338.16	6996.88	210.89S	1718.48E	-88.7	885.57	854.24	28.26
8113.00	7004.00	523.16S	990.22E	PAVISTMA 11-32	7338.89	6997.60	210.89S	1718.49E	-88.8	792.42	759.36	23.97
8213.00	7004.00	522.09S	1090.21E	PAVISTMA 11-32	7339.61	6998.33	210.89S	1718.49E	-88.9	701.15	665.86	19.87
8313.00	7004.00	521.02S	1190.21E	PAVISTMA 11-32	7340.33	6999.05	210.88S	1718.50E	-89.1	612.62	574.41	16.03
8413.00	7004.00	519.96S	1290.20E	PAVISTMA 11-32	7341.05	6999.77	210.88S	1718.50E	-89.2	528.20	486.12	12.55
8513.00	7004.00	518.89S	1390.19E	PAVISTMA 11-32	7341.78	7000.49	210.88S	1718.51E	-89.3	450.20	403.08	9.56
8613.00	7004.00	517.83S	1490.19E	PAVISTMA 11-32	7342.50	7001.22	210.87S	1718.51E	-89.5	382.57	329.24	7.17
8713.00	7004.00	516.76S	1590.18E	PAVISTMA 11-32	7343.22	7001.94	210.87S	1718.52E	-89.6	331.73	271.97	5.55

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Clearance Data

Reference MD[ft]	Reference TVD[ft]	Reference North[ft]	Reference East[ft]	Offset Well	Offset MD[ft]	Offset TVD[ft]	Offset North[ft]	Offset East[ft]	Angle From Highside [deg]	Closest Approach Distance [ft]	Ellipse Separation [ft]	Clearance Factor
8813.00	7004.00	515.70S	1690.18E	PAVISTMA 11-32	7343.95	7002.66	210.87S	1718.52E	-89.8	306.15	242.43	4.80
8844.59	7004.00	515.36S	1721.77E	PAVISTMA 11-32	7344.17	7002.89	210.87S	1718.52E	-89.8	304.51	240.59	4.76
8913.00	7004.00	514.63S	1790.17E	PAVISTMA 11-32	7344.67	7003.38	210.87S	1718.53E	-89.9	312.10	249.72	5.00
9013.00	7004.00	513.57S	1890.17E	PAVISTMA 11-32	7345.39	7004.11	210.86S	1718.53E	-90.0	347.98	291.30	6.14
9113.00	7004.00	512.50S	1990.16E	PAVISTMA 11-32	7346.11	7004.83	210.86S	1718.54E	-90.2	405.91	355.99	8.13
9213.00	7004.00	511.44S	2090.15E	PAVISTMA 11-32	7346.84	7005.55	210.86S	1718.54E	-90.3	477.96	433.85	10.84
9313.00	7004.00	510.37S	2190.15E	PAVISTMA 11-32	7347.56	7006.27	210.86S	1718.55E	-90.4	558.68	519.03	14.09
9413.00	7004.00	509.31S	2290.14E	PAVISTMA 11-32	7348.28	7007.00	210.85S	1718.55E	-90.6	644.82	608.47	17.74
9513.00	7004.00	508.24S	2390.14E	PAVISTMA 11-32	7349.00	7007.72	210.85S	1718.56E	-90.7	734.49	700.55	21.64
9613.00	7004.00	507.17S	2490.13E	PAVISTMA 11-32	7349.73	7008.44	210.85S	1718.56E	-90.8	826.53	794.38	25.71
9713.00	7004.00	506.11S	2590.13E	PAVISTMA 11-32	7350.45	7009.16	210.84S	1718.57E	-91.0	920.23	889.42	29.87
9813.00	7004.00	505.04S	2690.12E	PAVISTMA 11-32	7351.17	7009.89	210.84S	1718.58E	-91.1	1015.13	985.33	34.07
9913.00	7004.00	503.98S	2790.11E	PAVISTMA 11-32	7351.89	7010.61	210.84S	1718.58E	-91.2	1110.93	1081.90	38.28
10013.00	7004.00	502.91S	2890.11E	PAVISTMA 11-32	7352.62	7011.33	210.84S	1718.59E	-91.4	1207.41	1178.98	42.48
10113.00	7004.00	501.85S	2990.10E	PAVISTMA 11-32	7353.34	7012.06	210.83S	1718.59E	-91.5	1304.41	1276.46	46.66
10213.00	7004.00	500.78S	3090.10E	PAVISTMA 11-32	7354.06	7012.78	210.83S	1718.60E	-91.7	1401.84	1374.25	50.81
10313.00	7004.00	499.72S	3190.09E	PAVISTMA 11-32	7354.79	7013.50	210.83S	1718.60E	-91.8	1499.61	1472.31	54.93
10413.00	7004.00	498.65S	3290.09E	PAVISTMA 11-32	7355.51	7014.22	210.83S	1718.61E	-91.9	1597.65	1570.58	59.01
10513.00	7004.00	497.59S	3390.08E	PAVISTMA 11-32	7356.23	7014.95	210.82S	1718.61E	-92.1	1695.92	1669.03	63.05
10613.00	7004.00	496.52S	3490.07E	PAVISTMA 11-32	7356.95	7015.67	210.82S	1718.62E	-92.2	1794.39	1767.63	67.06
10713.00	7004.00	495.46S	3590.07E	PAVISTMA 11-32	7357.68	7016.39	210.82S	1718.62E	-92.3	1893.01	1866.36	71.04
10813.00	7004.00	494.39S	3690.06E	PAVISTMA 11-32	7358.40	7017.11	210.82S	1718.63E	-92.5	1991.77	1965.20	74.97
10913.00	7004.00	493.32S	3790.06E	PAVISTMA 11-32	7359.12	7017.84	210.81S	1718.63E	-92.6	2090.65	2064.14	78.88
11013.00	7004.00	492.26S	3890.05E	PAVISTMA 11-32	7359.84	7018.56	210.81S	1718.64E	-92.7	2189.63	2163.17	82.75
11113.00	7004.00	491.19S	3990.05E	PAVISTMA 11-32	7360.57	7019.28	210.81S	1718.64E	-92.9	2288.69	2262.26	86.59
11213.00	7004.00	490.13S	4090.04E	PAVISTMA 11-32	7361.29	7020.00	210.80S	1718.65E	-93.0	2387.84	2361.43	90.40
11313.00	7004.00	489.06S	4190.03E	PAVISTMA 11-32	7362.01	7020.73	210.80S	1718.65E	-93.1	2487.05	2460.65	94.18
11413.00	7004.00	488.00S	4290.03E	PAVISTMA 11-32	7362.73	7021.45	210.80S	1718.66E	-93.3	2586.33	2559.92	97.93
11513.00	7004.00	486.93S	4390.02E	PAVISTMA 11-32	7363.46	7022.17	210.80S	1718.66E	-93.4	2685.66	2659.24	101.65
11613.00	7004.00	485.87S	4490.02E	PAVISTMA 11-32	7364.18	7022.89	210.79S	1718.67E	-93.5	2785.03	2758.60	105.35
11653.56	7004.00	485.43S	4530.58E	PAVISTMA 11-32	7364.47	7023.19	210.79S	1718.67E	-93.6	2825.35	2798.90	106.81

Offset Wellbore Survey Tool Programs

Well	Wellbore	Survey Name	MD[ft]	Survey Tool	Error Model
PAVISTMA 11-32	PAVISTMA 11-32 (AWB)	ACTUAL	7789.00	ISCWSA MWD	Rev 0

Clearance Data

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Reference MD[ft]	Reference TVD[ft]	Reference North[ft]	Reference East[ft]	Offset Well	Offset MD[ft]	Offset TVD[ft]	Offset North[ft]	Offset East[ft]	Angle From Highside [deg]	Closest Approach Distance [ft]	Ellipse Separation [ft]	Clearance Factor
13.00	13.00	0.00N	0.00E	CENTER POINT 5 #8-1-32-18 0-4-NH	0.00	210.00	3863.91N	5914.94E	56.9	7067.90	7067.90	
113.00	113.00	0.00N	0.00E	CENTER POINT 5 #8-1-32-18 0-4-NH	0.00	210.00	3863.91N	5914.94E	56.9	7065.82	7065.74	87771.74
213.00	213.00	0.00N	0.00E	CENTER POINT 5 #8-1-32-18 0-4-NH	3.00	213.00	3863.91N	5914.94E	56.9	7065.15	7064.98	40383.41
313.00	313.00	0.00N	0.00E	CENTER POINT 5 #8-1-32-18 0-4-NH	103.00	313.00	3863.91N	5914.94E	56.9	7065.15	7064.83	21701.48
413.00	413.00	0.00N	0.00E	CENTER POINT 5 #8-1-32-18 0-4-NH	203.00	413.00	3863.91N	5914.94E	56.9	7065.15	7064.67	14536.89
513.00	513.00	0.00N	0.00E	CENTER POINT 5 #8-1-32-18 0-4-NH	303.00	513.00	3863.91N	5914.94E	56.9	7065.15	7064.51	10922.67
613.00	613.00	0.00N	0.00E	CENTER POINT 5 #8-1-32-18 0-4-NH	2026.05	2213.92	3808.11N	5711.90E	56.3	7049.14	7046.87	3102.42
713.00	713.00	0.00N	0.00E	CENTER POINT 5 #8-1-32-18 0-4-NH	2123.17	2308.23	3801.97N	5689.56E	56.3	7026.43	7023.98	2857.77
813.00	813.00	0.00N	0.00E	CENTER POINT 5 #8-1-32-18 0-4-NH	2220.28	2402.54	3795.83N	5667.22E	56.2	7003.73	7001.09	2646.61
913.00	913.00	0.00N	0.00E	CENTER POINT 5 #8-1-32-18 0-4-NH	2317.39	2496.85	3789.69N	5644.88E	56.1	6981.04	6978.21	2462.63
1013.00	1013.00	0.00N	0.00E	CENTER POINT 5 #8-1-32-18 0-4-NH	2414.50	2591.16	3783.55N	5622.54E	56.1	6958.36	6955.33	2300.99
1113.00	1112.98	1.44S	0.99W	CENTER POINT 5 #8-1-32-18 0-4-NH	2511.91	2685.76	3777.39N	5600.13E	-158.5	6937.27	6934.05	2158.04
1213.00	1212.84	5.76S	3.94W	CENTER POINT 5 #8-1-32-18 0-4-NH	2609.84	2780.86	3771.19N	5577.61E	-158.7	6919.37	6915.97	2030.86
1313.00	1312.45	12.95S	8.86W	CENTER POINT 5 #8-1-32-18 0-4-NH	2708.17	2876.34	3764.98N	5554.99E	-158.9	6904.70	6901.10	1916.84
1331.63	1330.97	14.61S	9.99W	CENTER POINT 5 #8-1-32-18 0-4-NH	2726.51	2894.16	3763.82N	5550.77E	-159.0	6902.33	6898.69	1896.34
1413.00	1411.84	22.07S	15.09W	CENTER POINT 5 #8-1-32-18 0-4-NH	2806.69	2972.02	3758.75N	5532.32E	-159.1	6892.21	6888.41	1813.73
1513.00	1511.22	31.23S	21.35W	CENTER POINT 5 #8-1-32-18 0-4-NH	2905.23	3067.71	3752.52N	5509.66E	-159.2	6879.79	6875.79	1720.23
1613.00	1610.60	40.39S	27.62W	CENTER POINT 5 #8-1-32-18 0-4-NH	3003.76	3163.40	3746.29N	5486.99E	-159.2	6867.39	6863.19	1634.98
1713.00	1709.99	49.55S	33.88W	CENTER POINT 5 #8-1-32-18	3102.29	3259.09	3740.06N	5464.33E	-159.3	6855.01	6850.61	1557.08

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SYSDRILL
Closest Approach + Clearance Factor Report
Wellbore: PAVISTMA 5 #1-5-32-090-4-NH (PWB)
Wellpath: PAVISTMA 5 #1-5-32-090-4-NH (PWP#1)



Clearance Data

Reference MD[ft]	Reference TVD[ft]	Reference North[ft]	Reference East[ft]	Offset Well	Offset MD[ft]	Offset TVD[ft]	Offset North[ft]	Offset East[ft]	Angle From Highside [deg]	Closest Approach Distance [ft]	Ellipse Separation [ft]	Clearance Factor
1813.00	1809.37	58.72S	40.15W	0-4-NH CENTER POINT 5 #8-1-32-18	3200.83	3354.78	3733.83N	5441.66E	-159.4	6842.65	6838.05	1485.67
1913.00	1908.75	67.88S	46.41W	0-4-NH CENTER POINT 5 #8-1-32-18	3299.36	3450.46	3727.60N	5418.99E	-159.5	6830.31	6825.50	1420.00
2013.00	2008.13	77.04S	52.68W	0-4-NH CENTER POINT 5 #8-1-32-18	3397.89	3546.15	3721.37N	5396.33E	-159.6	6818.00	6812.98	1359.44
2113.00	2107.52	86.20S	58.94W	0-4-NH CENTER POINT 5 #8-1-32-18	10066.67	7032.07	237.20N	4600.01E	-133.1	6786.87	6760.94	261.77
2213.00	2206.90	95.37S	65.21W	0-4-NH CENTER POINT 5 #8-1-32-18	10066.67	7032.07	237.20N	4600.01E	-133.1	6719.90	6693.69	256.40
2313.00	2306.28	104.53S	71.47W	0-4-NH CENTER POINT 5 #8-1-32-18	10066.67	7032.07	237.20N	4600.01E	-133.1	6653.76	6627.27	251.14
2413.00	2405.66	113.69S	77.74W	0-4-NH CENTER POINT 5 #8-1-32-18	10066.67	7032.07	237.20N	4600.01E	-133.1	6588.48	6561.70	246.01
2513.00	2505.04	122.85S	84.00W	0-4-NH CENTER POINT 5 #8-1-32-18	10066.67	7032.07	237.20N	4600.01E	-133.1	6524.07	6497.00	240.98
2613.00	2604.43	132.01S	90.26W	0-4-NH CENTER POINT 5 #8-1-32-18	10066.67	7032.07	237.20N	4600.01E	-133.1	6460.57	6433.21	236.08
2713.00	2703.81	141.18S	96.53W	0-4-NH CENTER POINT 5 #8-1-32-18	10066.67	7032.07	237.20N	4600.01E	-133.1	6398.00	6370.34	231.30
2813.00	2803.19	150.34S	102.79W	0-4-NH CENTER POINT 5 #8-1-32-18	10066.67	7032.07	237.20N	4600.01E	-133.1	6336.40	6308.44	226.63
2913.00	2902.57	159.50S	109.06W	0-4-NH CENTER POINT 5 #8-1-32-18	10068.17	7032.02	235.71N	4600.18E	-133.1	6275.78	6247.51	221.98
3013.00	3001.95	168.66S	115.32W	0-4-NH CENTER POINT 5 #8-1-32-18	10073.09	7031.85	230.82N	4600.74E	-133.0	6216.18	6187.56	217.21
3113.00	3101.34	177.83S	121.59W	0-4-NH CENTER POINT 5 #8-1-32-18	10078.02	7031.68	225.93N	4601.30E	-132.9	6157.62	6128.65	212.58
3213.00	3200.72	186.99S	127.85W	0-4-NH CENTER POINT 5 #8-1-32-18	10082.94	7031.50	221.05N	4601.86E	-132.9	6100.13	6070.81	208.08
3313.00	3300.10	196.15S	134.12W	0-4-NH CENTER POINT 5 #8-1-32-18	10087.86	7031.33	216.16N	4602.42E	-132.8	6043.75	6014.08	203.70
3413.00	3399.48	205.31S	140.38W	0-4-NH CENTER POINT 5 #8-1-32-18	10092.79	7031.16	211.27N	4602.98E	-132.8	5988.50	5958.47	199.46
3513.00	3498.87	214.48S	146.65W	0-4-NH CENTER POINT 5 #8-1-32-18	10097.71	7030.99	206.38N	4603.54E	-132.7	5934.42	5904.04	195.34
3613.00	3598.25	223.64S	152.91W	0-4-NH CENTER POINT 5	10100.00	7030.91	204.11N	4603.80E	-132.7	5881.53	5850.82	191.50

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Clearance Data

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3713.00	3697.63	232.80S	159.18W	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10100.00	7030.91	204.11N	4603.80E	-132.7	5829.89	5798.86	187.92
3813.00	3797.01	241.96S	165.44W	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10100.00	7030.91	204.11N	4603.80E	-132.7	5779.51	5748.18	184.45
3913.00	3896.39	251.12S	171.70W	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10100.00	7030.91	204.11N	4603.80E	-132.7	5730.43	5698.79	181.09
4013.00	3995.78	260.29S	177.97W	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10100.00	7030.91	204.11N	4603.80E	-132.7	5682.70	5650.74	177.84
4113.00	4095.16	269.45S	184.23W	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10100.00	7030.91	204.11N	4603.80E	-132.7	5636.33	5604.06	174.71
4213.00	4194.54	278.61S	190.50W	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10100.00	7030.91	204.11N	4603.80E	-132.7	5591.36	5558.79	171.69
4313.00	4293.92	287.77S	196.76W	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10100.00	7030.91	204.11N	4603.80E	-132.7	5547.83	5514.96	168.78
4413.00	4393.30	296.94S	203.03W	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10100.00	7030.91	204.11N	4603.80E	-132.7	5505.78	5472.61	165.98
4513.00	4492.69	306.10S	209.29W	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10100.00	7030.91	204.11N	4603.80E	-132.7	5465.23	5431.76	163.29
4613.00	4592.07	315.26S	215.56W	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10100.00	7030.91	204.11N	4603.80E	-132.7	5426.22	5392.46	160.71
4713.00	4691.45	324.42S	221.82W	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10100.38	7030.90	203.73N	4603.85E	-132.7	5388.79	5354.73	158.22
4813.00	4790.83	333.58S	228.09W	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10105.21	7030.73	198.94N	4604.45E	-132.6	5352.96	5318.56	155.63
4913.00	4890.22	342.75S	234.35W	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10110.05	7030.56	194.14N	4605.06E	-132.6	5318.76	5284.03	153.15
5013.00	4989.60	351.91S	240.62W	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10114.88	7030.39	189.35N	4605.67E	-132.5	5286.23	5251.17	150.78
5113.00	5088.98	361.07S	246.88W	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10119.72	7030.22	184.56N	4606.27E	-132.5	5255.40	5220.02	148.53
5213.00	5188.36	370.23S	253.15W	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10124.55	7030.05	179.76N	4606.88E	-132.4	5226.30	5190.60	146.40
5313.00	5287.74	379.40S	259.41W	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10129.39	7029.89	174.97N	4607.49E	-132.4	5198.95	5162.94	144.37
5413.00	5387.13	388.56S	265.67W	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10133.33	7029.75	171.06N	4607.98E	-132.3	5173.38	5137.08	142.50

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Clearance Data

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5513.00	5486.51	397.72S	271.94W	0-4-NH CENTER POINT 5 #8-1-32-18	10133.33	7029.75	171.06N	4607.98E	-132.3	5149.63	5113.09	140.91
5613.00	5585.89	406.88S	278.20W	0-4-NH CENTER POINT 5 #8-1-32-18	10133.33	7029.75	171.06N	4607.98E	-132.3	5127.72	5090.94	139.42
5713.00	5685.27	416.05S	284.47W	0-4-NH CENTER POINT 5 #8-1-32-18	10133.33	7029.75	171.06N	4607.98E	-132.3	5107.68	5070.68	138.04
5813.00	5784.65	425.21S	290.73W	0-4-NH CENTER POINT 5 #8-1-32-18	10133.33	7029.75	171.06N	4607.98E	-132.3	5089.52	5052.30	136.76
5913.00	5884.04	434.37S	297.00W	0-4-NH CENTER POINT 5 #8-1-32-18	10133.33	7029.75	171.06N	4607.98E	-132.3	5073.26	5035.85	135.58
6013.00	5983.42	443.53S	303.26W	0-4-NH CENTER POINT 5 #8-1-32-18	10133.33	7029.75	171.06N	4607.98E	-132.3	5058.94	5021.33	134.51
6113.00	6082.80	452.69S	309.53W	0-4-NH CENTER POINT 5 #8-1-32-18	10133.33	7029.75	171.06N	4607.98E	-132.3	5046.55	5008.76	133.53
6213.00	6182.18	461.86S	315.79W	0-4-NH CENTER POINT 5 #8-1-32-18	10133.33	7029.75	171.06N	4607.98E	-132.3	5036.12	4998.15	132.66
6313.00	6281.56	471.02S	322.06W	0-4-NH CENTER POINT 5 #8-1-32-18	10133.33	7029.75	171.06N	4607.98E	-132.3	5027.65	4989.53	131.88
6413.00	6380.95	480.18S	328.32W	0-4-NH CENTER POINT 5 #8-1-32-18	10133.33	7029.75	171.06N	4607.98E	-132.3	5021.17	4982.90	131.21
6429.28	6397.13	481.67S	329.34W	0-4-NH CENTER POINT 5 #8-1-32-18	10133.33	7029.75	171.06N	4607.98E	-132.3	5020.30	4982.01	131.11
6513.00	6480.42	489.29S	328.47W	0-4-NH CENTER POINT 5 #8-1-32-18	10133.33	7029.75	171.06N	4607.98E	-55.6	5010.63	4972.23	130.48
6613.00	6578.45	498.08S	311.51W	0-4-NH CENTER POINT 5 #8-1-32-18	10137.80	7029.59	166.64N	4608.59E	-27.7	4985.26	4946.68	129.24
6713.00	6672.07	506.29S	277.71W	0-4-NH CENTER POINT 5 #8-1-32-18	10147.28	7029.26	157.24N	4609.89E	-20.8	4945.36	4906.56	127.48
6813.00	6758.44	513.66S	228.11W	0-4-NH CENTER POINT 5 #8-1-32-18	10158.37	7028.88	146.27N	4611.41E	-18.4	4891.79	4852.77	125.36
6913.00	6834.94	519.98S	164.21W	0-4-NH CENTER POINT 5 #8-1-32-18	10166.67	7028.59	138.06N	4612.55E	-18.1	4825.76	4786.55	123.07
7013.00	6899.23	525.05S	87.96W	0-4-NH CENTER POINT 5 #8-1-32-18	10166.67	7028.59	138.06N	4612.55E	-19.6	4748.81	4709.51	120.84
7113.00	6949.38	528.72S	1.66W	0-4-NH CENTER POINT 5 #8-1-32-18	10166.67	7028.59	138.06N	4612.55E	-23.4	4662.81	4623.43	118.40
7213.00	6983.84	530.88S	92.05E	0-4-NH CENTER POINT 5	10166.67	7028.59	138.06N	4612.55E	-32.7	4569.94	4530.47	115.78

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Clearance Data

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7313.00	7001.58	531.46S	190.33E	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10172.77	7028.37	132.03N	4613.45E	-59.9	4472.68	4433.05	112.85
7365.76	7004.00	531.12S	243.02E	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10180.17	7028.11	124.71N	4614.55E	-92.3	4420.52	4380.75	111.14
7413.00	7004.00	530.61S	290.26E	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10186.69	7027.89	118.27N	4615.52E	-92.3	4373.73	4333.84	109.63
7513.00	7004.00	529.55S	390.25E	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10200.00	7027.42	105.11N	4617.49E	-92.3	4274.69	4234.54	106.48
7613.00	7004.00	528.48S	490.24E	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10200.00	7027.42	105.11N	4617.49E	-92.3	4175.67	4135.42	103.77
7713.00	7004.00	527.42S	590.24E	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10200.00	7027.42	105.11N	4617.49E	-92.3	4076.69	4036.36	101.06
7813.00	7004.00	526.35S	690.23E	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10200.00	7027.42	105.11N	4617.49E	-92.3	3977.77	3937.34	98.37
7913.00	7004.00	525.29S	790.23E	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10210.52	7027.06	94.74N	4619.18E	-92.3	3878.89	3838.23	95.39
8013.00	7004.00	524.22S	890.22E	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10225.46	7026.53	80.00N	4621.57E	-92.3	3780.02	3739.08	92.33
8113.00	7004.00	523.16S	990.22E	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10233.33	7026.26	72.23N	4622.83E	-92.3	3681.15	3640.01	89.49
8213.00	7004.00	522.09S	1090.21E	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10233.33	7026.26	72.23N	4622.83E	-92.3	3582.33	3541.09	86.87
8313.00	7004.00	521.02S	1190.21E	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10233.33	7026.26	72.23N	4622.83E	-92.3	3483.58	3442.23	84.25
8413.00	7004.00	519.96S	1290.20E	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10245.85	7025.82	59.90N	4624.97E	-92.3	3384.88	3343.28	81.37
8513.00	7004.00	518.89S	1390.19E	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10261.95	7025.26	44.06N	4627.73E	-92.3	3286.19	3244.29	78.44
8613.00	7004.00	517.83S	1490.19E	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10266.67	7025.10	39.41N	4628.54E	-92.3	3187.51	3145.45	75.79
8713.00	7004.00	516.76S	1590.18E	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10266.67	7025.10	39.41N	4628.54E	-92.3	3088.92	3046.74	73.23
8813.00	7004.00	515.70S	1690.18E	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10275.43	7024.79	30.80N	4630.14E	-92.3	2990.40	2948.00	70.53
8913.00	7004.00	514.63S	1790.17E	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10292.68	7024.19	13.86N	4633.30E	-92.3	2891.90	2849.19	67.72

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9013.00	7004.00	513.57S	1890.17E	0-4-NH CENTER POINT 5 #8-1-32-18	10300.00	7023.93	6.66N	4634.64E	-92.3	2793.41	2750.50	65.10
9113.00	7004.00	512.50S	1990.16E	0-4-NH CENTER POINT 5 #8-1-32-18	10300.00	7023.93	6.66N	4634.64E	-92.3	2695.03	2651.98	62.61
9213.00	7004.00	511.44S	2090.15E	0-4-NH CENTER POINT 5 #8-1-32-18	10314.18	7023.44	7.24S	4637.39E	-92.3	2596.73	2553.40	59.92
9313.00	7004.00	510.37S	2190.15E	0-4-NH CENTER POINT 5 #8-1-32-18	10332.57	7022.80	25.27S	4640.97E	-92.3	2498.44	2454.77	57.22
9413.00	7004.00	509.31S	2290.14E	0-4-NH CENTER POINT 5 #8-1-32-18	10333.33	7022.77	26.02S	4641.11E	-92.3	2400.21	2356.38	54.77
9513.00	7004.00	508.24S	2390.14E	0-4-NH CENTER POINT 5 #8-1-32-18	10342.56	7022.45	35.03S	4643.01E	-92.3	2302.11	2258.04	52.24
9613.00	7004.00	507.17S	2490.13E	0-4-NH CENTER POINT 5 #8-1-32-18	10362.08	7021.77	54.13S	4647.03E	-92.4	2204.03	2159.62	49.62
9713.00	7004.00	506.11S	2590.13E	0-4-NH CENTER POINT 5 #8-1-32-18	10366.67	7021.61	58.61S	4647.97E	-92.4	2106.01	2061.38	47.19
9813.00	7004.00	505.04S	2690.12E	0-4-NH CENTER POINT 5 #8-1-32-18	10377.78	7021.22	69.45S	4650.38E	-92.4	2008.15	1963.24	44.72
9913.00	7004.00	503.98S	2790.11E	0-4-NH CENTER POINT 5 #8-1-32-18	10398.44	7020.50	89.61S	4654.87E	-92.4	1910.31	1865.04	42.20
10013.00	7004.00	502.91S	2890.11E	0-4-NH CENTER POINT 5 #8-1-32-18	10400.00	7020.44	91.13S	4655.21E	-92.4	1812.57	1767.08	39.85
10113.00	7004.00	501.85S	2990.10E	0-4-NH CENTER POINT 5 #8-1-32-18	10419.83	7019.75	110.42S	4659.73E	-92.4	1714.97	1669.12	37.40
10213.00	7004.00	500.78S	3090.10E	0-4-NH CENTER POINT 5 #8-1-32-18	10433.33	7019.28	123.56S	4662.82E	-92.4	1617.40	1571.22	35.02
10313.00	7004.00	499.72S	3190.09E	0-4-NH CENTER POINT 5 #8-1-32-18	10445.75	7018.85	135.61S	4665.80E	-92.4	1520.03	1473.52	32.68
10413.00	7004.00	498.65S	3290.09E	0-4-NH CENTER POINT 5 #8-1-32-18	10466.67	7018.12	155.90S	4670.81E	-92.5	1422.70	1375.80	30.33
10513.00	7004.00	497.59S	3390.08E	0-4-NH CENTER POINT 5 #8-1-32-18	10476.21	7017.79	165.13S	4673.21E	-92.5	1325.57	1278.33	28.06
10613.00	7004.00	496.52S	3490.07E	0-4-NH CENTER POINT 5 #8-1-32-18	10500.00	7016.96	188.15S	4679.18E	-92.5	1228.51	1180.85	25.78
10713.00	7004.00	495.46S	3590.07E	0-4-NH CENTER POINT 5 #8-1-32-18	10511.18	7016.57	198.93S	4682.11E	-92.5	1131.65	1083.62	23.56
10813.00	7004.00	494.39S	3690.06E	0-4-NH CENTER POINT 5	10533.33	7015.80	220.29S	4687.92E	-92.6	1034.89	986.42	21.35

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Rig and TVD's are from Rig (Planned Datum #1 4967.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 96.120 degrees
Prepared by Peterson Energy
Date Printed: 28-Jan-2013

SYSDRILL
Closest Approach + Clearance Factor Report
Wellbore: PAVISTMA 5 #1-5-32-090-4-NH (PWB)
Wellpath: PAVISTMA 5 #1-5-32-090-4-NH (PWP#1)



Clearance Data

Reference MD[ft]	Reference TVD[ft]	Reference North[ft]	Reference East[ft]	Offset Well	Offset MD[ft]	Offset TVD[ft]	Offset North[ft]	Offset East[ft]	Angle From Highside [deg]	Closest Approach Distance [ft]	Ellipse Separation [ft]	Clearance Factor
10913.00	7004.00	493.32S	3790.06E	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10550.66	7015.19	236.95S	4692.66E	-92.6	938.37	889.47	19.19
11013.00	7004.00	492.26S	3890.05E	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10567.18	7014.62	252.83S	4697.18E	-92.6	841.96	792.60	17.06
11113.00	7004.00	491.19S	3990.05E	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10594.62	7013.67	279.12S	4704.99E	-92.7	745.80	695.95	14.96
11213.00	7004.00	490.13S	4090.04E	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10615.29	7012.95	298.88S	4711.00E	-92.8	649.81	599.45	12.90
11313.00	7004.00	489.06S	4190.03E	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10643.74	7011.96	326.04S	4719.38E	-92.9	553.94	503.08	10.89
11413.00	7004.00	488.00S	4290.03E	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10672.18	7010.98	353.21S	4727.76E	-93.1	458.07	406.71	8.92
11513.00	7004.00	486.93S	4390.02E	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10700.62	7009.99	380.37S	4736.14E	-93.3	362.20	310.34	6.98
11613.00	7004.00	485.87S	4490.02E	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10729.06	7009.00	407.53S	4744.52E	-93.8	266.33	213.97	5.09
11653.56	7004.00	485.43S	4530.58E	POINT 5 #8-1-32-18 0-4-NH CENTER POINT 5	10740.60	7008.60	418.55S	4747.92E	-94.1	227.44	174.88	4.33

Offset Wellbore Survey Tool Programs

Well	Wellbore	Survey Name	MD[ft]	Survey Tool	Error Model
CENTER POINT 5 #8-1-32-180-4-NH	CENTER POINT 5 #8-1-32-180-4-NH (PWB)	Planned		WdW Rate Gyro	Standard

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Vertical Section is from 0.00N 0.00E on azimuth 96.120 degrees
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