

SYSDRILL
Closest Approach + Clearance Factor Report
Wellbore: PAVISTMA 4 #1-6-32-090-4-NH (PWB)
Wellpath: PAVISTMA 4 #1-6-32-090-4-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 4 #1-6-32-090-4-NH (PWB)	13-Nov-2012	26-Dec-2012

Well

Name	Government ID	Last Revised
PAVISTMA 4 #1-6-32-090-4-NH		13-Nov-2012

Slot

Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
Slot #4	1404354.4554	3160123.5363	N40 26 30.9442	W104 55 28.9620	32.40N	0.68W

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 19-32	PAVISTMA 19-32 (AWB)	PAVISTMA 19-32	Pavistma (Anadarko)	161.08	8196.77	8196.77	120.79	8182.29	3.86	8149.48
RANCHO WATER VALLEY 13 #7-6-33-270 -6-CH	RANCHO WATER VALLEY 13 #7-6-33-270 -6-CH (PWB)	Slot #13	Rancho Water Valley	198.20	10105.52	10105.52	120.28	10085.18	2.52	10085.18
FRYE FARM 7-5-32	FRYE FARM 7-5-32 (AWB)	FRYE FARMS #7-5-32	Frye Farms	236.80	9660.87	9660.87	175.48	9658.67	3.84	9642.27

Reference Wellbore Survey Tool Program

Survey Name	MD[ft]	Survey Tool	Error Model
Planned	11783.72	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 19-32	0.00	13.00	280.79S	12.03E	177.6	281.05	281.05	
113.00	113.00	0.00N	0.00E	PAVISTMA 19-32	99.63	112.63	280.93S	11.86E	177.6	281.18	280.18	279.08
213.00	213.00	0.00N	0.00E	PAVISTMA 19-32	198.88	211.87	281.23S	11.50E	177.7	281.47	280.00	191.38
259.06	259.06	0.00N	0.00E	PAVISTMA 19-32	244.94	257.94	281.43S	11.27E	177.7	281.66	280.00	170.13
313.00	313.00	0.00N	0.00E	PAVISTMA 19-32	298.12	311.12	281.70S	10.95E	177.8	281.92	280.07	152.81
413.00	413.00	0.00N	0.00E	PAVISTMA 19-32	398.11	411.10	282.40S	10.12E	177.9	282.59	280.41	129.94
513.00	513.00	0.00N	0.00E	PAVISTMA 19-32	497.35	510.32	283.31S	9.03E	178.2	283.46	280.99	114.62
613.00	613.00	0.00N	0.00E	PAVISTMA 19-32	596.56	609.53	284.38S	7.76E	178.4	284.50	281.75	103.44
713.00	713.00	0.00N	0.00E	PAVISTMA 19-32	696.54	709.49	285.64S	6.26E	178.8	285.73	282.71	94.82

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Clearance Data

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813.00	813.00	0.00N	0.00E	19-32 PAVISTMA	795.73	808.65	287.15S	4.46E	179.1	287.22	283.95	88.05
913.00	913.00	0.00N	0.00E	19-32 PAVISTMA	895.78	908.66	288.70S	2.33E	179.5	288.74	285.31	84.16
1013.00	1013.00	0.00N	0.00E	19-32 PAVISTMA	994.82	1007.66	290.28S	0.05W	-180.0	290.33	286.79	82.09
1113.00	1112.98	1.66S	0.53W	19-32 PAVISTMA	1089.96	1102.76	292.93S	0.10W	-17.7	291.45	287.82	80.26
1213.00	1212.84	6.65S	2.11W	19-32 PAVISTMA	1186.97	1199.66	296.87S	2.18E	-18.5	290.55	286.83	78.05
1225.08	1224.88	7.48S	2.38W	19-32 PAVISTMA	1192.33	1205.01	297.11S	2.36E	-18.5	290.35	286.61	77.76
1313.00	1312.45	14.96S	4.75W	19-32 PAVISTMA	1287.88	1300.30	301.52S	7.59E	-20.1	287.09	283.28	75.35
1413.00	1411.70	26.57S	8.44W	19-32 PAVISTMA	1385.62	1397.41	304.44S	18.24E	-23.1	279.52	275.61	71.62
1513.00	1510.47	41.48S	13.18W	19-32 PAVISTMA	1477.57	1488.39	309.02S	30.68E	-26.9	272.01	267.99	67.64
1544.69	1541.64	46.89S	14.90W	19-32 PAVISTMA	1506.65	1517.11	310.80S	34.90E	-28.3	269.68	265.62	66.33
1613.00	1608.78	58.90S	18.72W	19-32 PAVISTMA	1572.12	1581.67	315.02S	44.91E	-31.4	265.29	261.12	63.52
1713.00	1707.06	76.49S	24.31W	19-32 PAVISTMA	1667.95	1675.99	321.24S	60.65E	-36.5	260.94	256.57	59.75
1779.93	1772.84	88.26S	28.05W	19-32 PAVISTMA	1729.00	1736.00	325.64S	71.00E	-39.8	259.84	255.34	57.71
1813.00	1805.35	94.07S	29.89W	19-32 PAVISTMA	1760.34	1766.75	328.23S	76.47E	-41.5	260.06	255.48	56.77
1913.00	1903.63	111.66S	35.48W	19-32 PAVISTMA	1848.04	1852.43	337.23S	92.82E	-46.2	264.51	259.71	55.07
2013.00	2001.91	129.25S	41.07W	19-32 PAVISTMA	1941.72	1943.79	349.11S	109.79E	-50.8	272.91	267.87	54.14
2113.00	2100.19	146.83S	46.66W	19-32 PAVISTMA	2032.83	2032.22	361.30S	127.99E	-55.1	284.81	279.52	53.84
2145.55	2132.18	152.56S	48.48W	19-32 PAVISTMA	2063.12	2061.51	365.25S	134.64E	-56.6	289.42	284.04	53.79
2213.00	2198.48	164.42S	52.25W	19-32 PAVISTMA	2126.06	2122.23	373.24S	149.14E	-59.6	299.96	294.39	53.92
2313.00	2296.76	182.01S	57.84W	19-32 PAVISTMA	2221.48	2214.35	386.89S	169.92E	-63.5	317.24	311.39	54.19
2413.00	2395.04	199.59S	63.42W	19-32 PAVISTMA	2313.10	2302.64	401.39S	189.63E	-66.6	336.59	330.43	54.64
2513.00	2493.32	217.18S	69.01W	19-32 PAVISTMA	2404.37	2390.29	416.11S	210.38E	-69.5	358.12	351.62	55.10
2613.00	2591.61	234.77S	74.60W	19-32 PAVISTMA	2490.00	2471.97	429.82S	232.10E	-72.1	382.66	375.80	55.76
2713.00	2689.89	252.35S	80.19W	19-32 PAVISTMA	2576.66	2553.93	442.81S	257.04E	-74.8	410.47	403.20	56.48
2813.00	2788.17	269.94S	85.78W	19-32 PAVISTMA	2680.90	2652.56	457.24S	287.53E	-77.8	439.13	431.38	56.68
2913.00	2886.45	287.53S	91.37W	19-32 PAVISTMA	2775.11	2742.21	469.15S	313.90E	-80.2	466.94	458.73	56.85
3013.00	2984.74	305.11S	96.96W	19-32 PAVISTMA	2864.10	2826.71	480.48S	339.40E	-82.3	496.12	487.43	57.09
3113.00	3083.02	322.70S	102.54W	19-32 PAVISTMA	2957.91	2915.57	493.15S	366.68E	-84.2	526.56	517.35	57.20
3213.00	3181.30	340.29S	108.13W	19-32 PAVISTMA	3067.23	3019.61	506.78S	397.33E	-86.2	556.20	546.41	56.84
3313.00	3279.58	357.87S	113.72W	19-32 PAVISTMA	3174.43	3122.43	519.15S	425.04E	-88.0	583.93	573.57	56.38
3413.00	3377.87	375.46S	119.31W	19-32 PAVISTMA	3280.14	3224.43	530.67S	450.29E	-89.6	609.98	599.06	55.85
3513.00	3476.15	393.05S	124.90W	19-32 PAVISTMA	3383.07	3324.19	540.86S	473.47E	-91.1	634.82	623.34	55.31
3613.00	3574.43	410.63S	130.49W	19-32 PAVISTMA	3475.69	3413.96	550.45S	494.15E	-92.3	659.90	647.89	54.98
3713.00	3672.72	428.22S	136.07W	19-32 PAVISTMA	3561.29	3496.69	559.39S	514.22E	-93.3	686.35	673.83	54.83
3813.00	3771.00	445.81S	141.66W	19-32 PAVISTMA	3651.87	3584.00	568.69S	536.48E	-94.4	714.11	701.05	54.68
3913.00	3869.28	463.39S	147.25W	19-32 PAVISTMA	3751.43	3680.02	579.38S	560.49E	-95.4	741.74	728.09	54.34
3917.20	3873.41	464.13S	147.49W	19-32 PAVISTMA	3754.67	3683.15	579.74S	561.27E	-95.4	742.90	729.23	54.34

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4013.00	3967.56	480.98S	152.84W	19-32 PAVISTMA	3827.33	3752.80	589.47S	579.54E	-96.0	770.89	756.74	54.49
4097.65	4050.76	495.87S	157.57W	19-32 PAVISTMA	3907.70	3829.57	600.94S	600.35E	-96.5	796.50	781.84	54.34
4113.00	4065.85	498.57S	158.43W	19-32 PAVISTMA	3917.18	3838.62	602.30S	602.83E	-96.6	801.19	786.47	54.40
4213.00	4164.13	516.15S	164.02W	19-32 PAVISTMA	4003.06	3920.32	615.18S	625.95E	-97.1	832.64	817.34	54.42
4313.00	4262.41	533.74S	169.61W	19-32 PAVISTMA	4136.00	4047.48	635.05S	659.16E	-97.8	862.15	846.06	53.56
4413.00	4360.69	551.33S	175.19W	19-32 PAVISTMA	4230.52	4138.43	648.36S	681.17E	-98.3	890.04	873.35	53.32
4474.94	4421.57	562.22S	178.66W	19-32 PAVISTMA	4288.27	4194.02	656.07S	694.79E	-98.6	907.47	890.41	53.19
4513.00	4458.98	568.91S	180.78W	19-32 PAVISTMA	4317.94	4222.54	659.96S	702.00E	-98.8	918.42	901.15	53.20
4613.00	4557.26	586.50S	186.37W	19-32 PAVISTMA	4388.87	4290.35	669.55S	720.45E	-99.1	948.93	931.18	53.45
4713.00	4655.54	604.09S	191.96W	19-32 PAVISTMA	4456.10	4354.08	679.44S	739.43E	-99.4	981.85	963.61	53.81
4813.00	4753.82	621.67S	197.55W	19-32 PAVISTMA	4573.80	4465.46	697.51S	772.89E	-99.8	1015.21	996.19	53.39
4901.45	4840.76	637.23S	202.49W	19-32 PAVISTMA	4669.02	4556.33	710.94S	797.98E	-100.2	1042.72	1023.09	53.12
4913.00	4852.11	639.26S	203.14W	19-32 PAVISTMA	4677.09	4564.03	712.06S	800.09E	-100.3	1046.31	1026.62	53.14
5013.00	4950.39	656.85S	208.72W	19-32 PAVISTMA	4751.91	4635.32	722.17S	820.42E	-100.6	1078.28	1058.07	53.36
5113.00	5048.67	674.43S	214.31W	19-32 PAVISTMA	4844.72	4723.42	734.61S	846.82E	-101.0	1111.49	1090.65	53.35
5180.32	5114.84	686.27S	218.08W	19-32 PAVISTMA	4906.03	4781.57	743.28S	864.23E	-101.2	1133.89	1112.63	53.34
5213.00	5146.96	692.02S	219.90W	19-32 PAVISTMA	4930.01	4804.24	746.93S	871.14E	-101.3	1144.92	1123.49	53.43
5313.00	5245.24	709.61S	225.49W	19-32 PAVISTMA	5011.50	4881.12	759.62S	894.98E	-101.5	1179.21	1157.21	53.59
5413.00	5343.52	727.19S	231.08W	19-32 PAVISTMA	5126.62	4989.84	776.25S	929.00E	-101.8	1213.79	1191.01	53.29
5513.00	5441.80	744.78S	236.67W	19-32 PAVISTMA	5358.48	5213.65	802.85S	982.69E	-102.7	1241.88	1217.87	51.72
5613.00	5540.09	762.37S	242.26W	19-32 PAVISTMA	5513.11	5366.04	814.36S	1006.15E	-103.6	1261.55	1236.83	51.03
5713.00	5638.37	779.95S	247.84W	19-32 PAVISTMA	5660.24	5512.01	821.91S	1022.83E	-104.5	1277.63	1252.31	50.46
5813.00	5736.65	797.54S	253.43W	19-32 PAVISTMA	5768.79	5620.01	826.51S	1032.69E	-105.2	1291.73	1265.91	50.03
5913.00	5834.93	815.13S	259.02W	19-32 PAVISTMA	5874.35	5725.06	830.95S	1042.01E	-105.8	1305.76	1279.45	49.63
6013.00	5933.22	832.71S	264.61W	19-32 PAVISTMA	6014.69	5864.92	836.76S	1051.96E	-106.6	1318.35	1291.52	49.14
6113.00	6031.50	850.30S	270.20W	19-32 PAVISTMA	6130.32	5980.39	839.43S	1057.24E	-107.4	1328.47	1301.19	48.70
6213.00	6129.78	867.89S	275.79W	19-32 PAVISTMA	6242.80	6092.81	840.82S	1060.79E	-108.2	1337.36	1309.66	48.27
6313.00	6228.06	885.47S	281.37W	19-32 PAVISTMA	6351.97	6201.94	841.60S	1063.55E	-109.0	1345.89	1317.78	47.87
6413.00	6326.35	903.06S	286.96W	19-32 PAVISTMA	6455.38	6305.34	841.37S	1065.28E	-109.8	1353.81	1325.30	47.48
6477.12	6389.36	914.33S	290.55W	19-32 PAVISTMA	6521.95	6371.90	841.16S	1066.20E	-110.3	1358.83	1330.06	47.24
6513.00	6424.67	920.64S	291.43W	19-32 PAVISTMA	6557.23	6407.17	841.05S	1066.65E	-91.0	1360.52	1331.61	47.07
6613.00	6522.58	938.00S	282.06W	19-32 PAVISTMA	6665.94	6515.88	841.09S	1067.57E	-48.4	1353.12	1323.82	46.17
6713.00	6617.42	954.63S	255.56W	19-32 PAVISTMA	6763.47	6613.41	841.84S	1067.94E	-31.6	1328.31	1298.59	44.69
6813.00	6706.33	970.03S	212.75W	19-32 PAVISTMA	6866.61	6716.54	842.86S	1067.68E	-25.3	1286.78	1256.63	42.68
6913.00	6786.60	983.73S	154.92W	19-32 PAVISTMA	6946.60	6796.53	843.65S	1067.13E	-23.1	1230.09	1199.49	40.20
7013.00	6855.79	995.31S	83.83W	19-32 PAVISTMA	7006.49	6856.41	844.16S	1066.90E	-23.3	1160.62	1129.55	37.35
7113.00	6911.79	1004.42S	1.64W	19-32 PAVISTMA	7059.20	6909.12	844.48S	1066.94E	-26.3	1080.49	1048.90	34.21

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7213.00	6952.91	1010.79S	89.15E	19-32 PAVISTMA	7099.50	6949.42	844.76S	1067.08E	-33.7	991.93	959.80	30.87
7313.00	6977.90	1014.21S	185.79E	19-32 PAVISTMA	7123.79	6973.71	845.03S	1067.25E	-51.1	897.56	864.84	27.43
7410.23	6986.00	1014.63S	282.56E	19-32 PAVISTMA	7132.56	6982.48	845.13S	1067.31E	-88.8	802.85	769.52	24.09
7413.00	6986.00	1014.60S	285.33E	19-32 PAVISTMA	7132.58	6982.50	845.13S	1067.31E	-88.8	800.14	766.79	23.99
7513.00	6986.00	1013.53S	385.32E	19-32 PAVISTMA	7133.26	6983.18	845.14S	1067.31E	-89.0	702.48	668.39	20.61
7613.00	6986.00	1012.47S	485.32E	19-32 PAVISTMA	7133.93	6983.85	845.15S	1067.32E	-89.2	605.58	570.55	17.29
7713.00	6986.00	1011.40S	585.31E	19-32 PAVISTMA	7134.61	6984.53	845.15S	1067.32E	-89.5	509.88	473.61	14.06
7813.00	6986.00	1010.34S	685.31E	19-32 PAVISTMA	7135.29	6985.20	845.16S	1067.33E	-89.7	416.20	378.27	10.97
7913.00	6986.00	1009.27S	785.30E	19-32 PAVISTMA	7135.96	6985.88	845.17S	1067.33E	-90.0	326.30	286.09	8.11
8013.00	6986.00	1008.20S	885.30E	19-32 PAVISTMA	7136.64	6986.56	845.18S	1067.34E	-90.2	244.37	201.28	5.67
8113.00	6986.00	1007.14S	985.29E	19-32 PAVISTMA	7137.32	6987.23	845.18S	1067.34E	-90.4	181.56	136.93	4.07
8149.48	6986.00	1006.75S	1021.77E	19-32 PAVISTMA	7137.56	6987.48	845.19S	1067.34E	-90.5	167.88	124.43	3.86
8196.77	6986.00	1006.25S	1069.06E	19-32 PAVISTMA	7137.88	6987.80	845.19S	1067.34E	-90.6	161.08	121.69	4.09
8213.00	6986.00	1006.07S	1085.28E	19-32 PAVISTMA	7137.99	6987.91	845.19S	1067.34E	-90.7	161.89	124.50	4.33
8313.00	6986.00	1005.01S	1185.28E	19-32 PAVISTMA	7138.67	6988.59	845.20S	1067.35E	-90.9	198.63	173.87	8.02
8413.00	6986.00	1003.94S	1285.27E	19-32 PAVISTMA	7139.35	6989.26	845.21S	1067.35E	-91.2	269.62	249.95	13.71
8513.00	6986.00	1002.88S	1385.27E	19-32 PAVISTMA	7140.02	6989.94	845.21S	1067.36E	-91.4	354.88	335.26	18.09
8613.00	6986.00	1001.81S	1485.26E	19-32 PAVISTMA	7140.70	6990.62	845.22S	1067.36E	-91.6	446.30	425.56	21.52
8713.00	6986.00	1000.75S	1585.26E	19-32 PAVISTMA	7141.37	6991.29	845.23S	1067.37E	-91.9	540.76	518.89	24.73
8813.00	6986.00	999.68S	1685.25E	19-32 PAVISTMA	7142.05	6991.97	845.24S	1067.37E	-92.1	636.92	614.09	27.90
8913.00	6986.00	998.61S	1785.24E	19-32 PAVISTMA	7142.73	6992.64	845.24S	1067.38E	-92.4	734.10	710.49	31.10
9013.00	6986.00	997.55S	1885.24E	19-32 PAVISTMA	7143.40	6993.32	845.25S	1067.38E	-92.6	831.95	807.70	34.31
9113.00	6986.00	996.48S	1985.23E	19-32 PAVISTMA	7144.08	6994.00	845.26S	1067.39E	-92.8	930.26	905.48	37.55
9213.00	6986.00	995.42S	2085.23E	19-32 PAVISTMA	7144.76	6994.67	845.27S	1067.39E	-93.1	1028.89	1003.66	40.79
9313.00	6986.00	994.35S	2185.22E	19-32 PAVISTMA	7146.68	6996.59	845.29S	1067.41E	-93.8	1127.76	1102.15	44.04
9413.00	6986.00	993.29S	2285.22E	19-32 PAVISTMA	7147.48	6997.39	845.29S	1067.41E	-94.0	1226.82	1200.87	47.28
9513.00	6986.00	992.22S	2385.21E	19-32 PAVISTMA	7148.27	6998.19	845.30S	1067.42E	-94.3	1326.01	1299.77	50.53
9613.00	6986.00	991.16S	2485.20E	19-32 PAVISTMA	7149.07	6998.99	845.31S	1067.42E	-94.6	1425.32	1398.82	53.78
9713.00	6986.00	990.09S	2585.20E	19-32 PAVISTMA	7149.87	6999.79	845.32S	1067.43E	-94.9	1524.72	1497.98	57.02
9813.00	6986.00	989.02S	2685.19E	19-32 PAVISTMA	7150.67	7000.59	845.33S	1067.44E	-95.2	1624.19	1597.23	60.25
9913.00	6986.00	987.96S	2785.19E	19-32 PAVISTMA	7151.47	7001.39	845.34S	1067.44E	-95.5	1723.72	1696.57	63.48
10013.00	6986.00	986.89S	2885.18E	19-32 PAVISTMA	7152.27	7002.18	845.34S	1067.45E	-95.7	1823.31	1795.97	66.69
10113.00	6986.00	985.83S	2985.18E	19-32 PAVISTMA	7153.07	7002.98	845.35S	1067.46E	-96.0	1922.93	1895.42	69.90
10213.00	6986.00	984.76S	3085.17E	19-32 PAVISTMA	7153.86	7003.78	845.36S	1067.46E	-96.3	2022.60	1994.93	73.10
10313.00	6986.00	983.70S	3185.17E	19-32 PAVISTMA	7154.66	7004.58	845.37S	1067.47E	-96.6	2122.29	2094.47	76.29
10413.00	6986.00	982.63S	3285.16E	19-32 PAVISTMA	7155.46	7005.38	845.38S	1067.48E	-96.9	2222.01	2194.05	79.47
10513.00	6986.00	981.57S	3385.15E	19-32 PAVISTMA	7156.26	7006.18	845.39S	1067.48E	-97.2	2321.76	2293.66	82.64

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SYSDRILL
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Wellbore: PAVISTMA 4 #1-6-32-090-4-NH (PWB)
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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
10613.00	6986.00	980.50S	3485.15E	19-32 PAVISTMA	7157.06	7006.97	845.39S	1067.49E	-97.4	2421.52	2393.30	85.80
10713.00	6986.00	979.43S	3585.14E	19-32 PAVISTMA	7157.86	7007.77	845.40S	1067.50E	-97.7	2521.31	2492.96	88.95
10813.00	6986.00	978.37S	3685.14E	19-32 PAVISTMA	7158.66	7008.57	845.41S	1067.50E	-98.0	2621.11	2592.64	92.09
10913.00	6986.00	977.30S	3785.13E	19-32 PAVISTMA	7159.45	7009.37	845.42S	1067.51E	-98.3	2720.92	2692.35	95.22
11013.00	6986.00	976.24S	3885.13E	19-32 PAVISTMA	7160.25	7010.17	845.43S	1067.52E	-98.5	2820.75	2792.06	98.33
11113.00	6986.00	975.17S	3985.12E	19-32 PAVISTMA	7161.05	7010.97	845.44S	1067.52E	-98.8	2920.59	2891.80	101.44
11213.00	6986.00	974.11S	4085.11E	19-32 PAVISTMA	7161.85	7011.77	845.44S	1067.53E	-99.1	3020.44	2991.54	104.53
11313.00	6986.00	973.04S	4185.11E	19-32 PAVISTMA	7162.65	7012.56	845.45S	1067.53E	-99.4	3120.30	3091.30	107.61
11413.00	6986.00	971.98S	4285.10E	19-32 PAVISTMA	7163.45	7013.36	845.46S	1067.54E	-99.7	3220.16	3191.07	110.68
11513.00	6986.00	970.91S	4385.10E	19-32 PAVISTMA	7164.25	7014.16	845.47S	1067.55E	-99.9	3320.04	3290.85	113.74
11613.00	6986.00	969.84S	4485.09E	19-32 PAVISTMA	7165.04	7014.96	845.48S	1067.55E	-100.2	3419.92	3390.64	116.79
11713.00	6986.00	968.78S	4585.09E	19-32 PAVISTMA	7165.84	7015.76	845.48S	1067.56E	-100.5	3519.81	3490.44	119.83
11783.72	6986.00	968.03S	4655.80E	19-32 PAVISTMA	7166.41	7016.32	845.49S	1067.56E	-100.7	3590.46	3561.02	121.96

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	FRYE FARM 7-5-32	0.00	86.00	946.35S	3959.40E	103.4	4071.58	4071.58	
86.00	86.00	0.00N	0.00E	FRYE FARM 7-5-32	0.00	86.00	946.35S	3959.40E	103.4	4070.93	4070.86	59185.33
113.00	113.00	0.00N	0.00E	FRYE FARM 7-5-32	8.68	94.68	946.30S	3959.45E	103.4	4071.01	4070.84	24466.96
213.00	213.00	0.00N	0.00E	FRYE FARM 7-5-32	1382.26	1445.90	910.55S	3763.17E	103.6	4063.32	4060.82	1620.16
313.00	313.00	0.00N	0.00E	FRYE FARM 7-5-32	1473.94	1533.17	908.59S	3735.13E	103.7	4033.06	4030.17	1396.32
413.00	413.00	0.00N	0.00E	FRYE FARM 7-5-32	1549.62	1605.31	906.89S	3712.32E	103.7	4003.17	3999.97	1251.91
513.00	513.00	0.00N	0.00E	FRYE FARM 7-5-32	1669.38	1719.44	904.08S	3676.15E	103.8	3973.28	3969.61	1083.75
613.00	613.00	0.00N	0.00E	FRYE FARM 7-5-32	1779.63	1824.23	901.45S	3641.98E	103.9	3942.55	3938.46	964.14
713.00	713.00	0.00N	0.00E	FRYE FARM 7-5-32	1837.50	1879.28	900.20S	3624.18E	104.0	3912.19	3907.83	896.68
813.00	813.00	0.00N	0.00E	FRYE FARM 7-5-32	1895.93	1935.05	899.17S	3606.79E	104.0	3882.84	3878.21	838.66
913.00	913.00	0.00N	0.00E	FRYE FARM 7-5-32	1954.89	1991.52	898.35S	3589.84E	104.1	3854.50	3849.61	788.16
1013.00	1013.00	0.00N	0.00E	FRYE FARM 7-5-32	2152.00	2179.58	892.62S	3531.15E	104.2	3824.49	3818.92	686.24

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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
1113.00	1112.98	1.66S	0.53W	FARM 7-5-32 FRYE FARM 7-5-32	2206.29	2231.28	890.54S	3514.73E	-94.0	3794.44	3788.61	651.82
1213.00	1212.84	6.65S	2.11W	FARM 7-5-32 FRYE FARM 7-5-32	2275.06	2297.01	888.26S	3494.61E	-94.7	3765.60	3759.49	616.30
1313.00	1312.45	14.96S	4.75W	FARM 7-5-32 FRYE FARM 7-5-32	2354.25	2372.82	886.19S	3471.84E	-95.3	3737.67	3731.24	581.28
1413.00	1411.70	26.57S	8.44W	FARM 7-5-32 FRYE FARM 7-5-32	2574.31	2582.26	880.35S	3404.61E	-96.2	3707.84	3700.62	513.10
1513.00	1510.47	41.48S	13.18W	FARM 7-5-32 FRYE FARM 7-5-32	2650.36	2654.38	878.15S	3380.56E	-97.0	3677.77	3670.20	485.62
1544.69	1541.64	46.89S	14.90W	FARM 7-5-32 FRYE FARM 7-5-32	2669.00	2672.07	877.65S	3374.72E	-97.2	3668.45	3660.78	478.26
1613.00	1608.78	58.90S	18.72W	FARM 7-5-32 FRYE FARM 7-5-32	2708.64	2709.81	876.80S	3362.63E	-97.3	3648.94	3641.06	463.34
1713.00	1707.06	76.49S	24.31W	FARM 7-5-32 FRYE FARM 7-5-32	2767.69	2766.19	875.87S	3345.11E	-97.4	3621.29	3613.10	442.41
1813.00	1805.35	94.07S	29.89W	FARM 7-5-32 FRYE FARM 7-5-32	2942.50	2932.30	872.77S	3290.74E	-97.8	3592.07	3583.19	404.21
1913.00	1903.63	111.66S	35.48W	FARM 7-5-32 FRYE FARM 7-5-32	3010.48	2996.86	871.43S	3269.51E	-98.0	3563.06	3553.81	385.53
2013.00	2001.91	129.25S	41.07W	FARM 7-5-32 FRYE FARM 7-5-32	3103.27	3085.10	868.77S	3240.95E	-98.2	3534.38	3524.71	365.40
2113.00	2100.19	146.83S	46.66W	FARM 7-5-32 FRYE FARM 7-5-32	3195.50	3172.87	864.94S	3212.87E	-98.5	3505.84	3495.74	347.31
2213.00	2198.48	164.42S	52.25W	FARM 7-5-32 FRYE FARM 7-5-32	3286.26	3259.28	860.85S	3185.41E	-98.8	3477.46	3466.95	330.91
2313.00	2296.76	182.01S	57.84W	FARM 7-5-32 FRYE FARM 7-5-32	3379.59	3348.15	857.01S	3157.14E	-99.0	3449.22	3438.29	315.49
2413.00	2395.04	199.59S	63.42W	FARM 7-5-32 FRYE FARM 7-5-32	3449.50	3414.78	854.43S	3136.14E	-99.2	3421.39	3410.10	303.04
2513.00	2493.32	217.18S	69.01W	FARM 7-5-32 FRYE FARM 7-5-32	3521.82	3483.87	851.78S	3114.95E	-99.4	3394.34	3382.68	291.34
2613.00	2591.61	234.77S	74.60W	FARM 7-5-32 FRYE FARM 7-5-32	3617.74	3575.60	847.66S	3087.22E	-99.7	3367.64	3355.56	278.93
2713.00	2689.89	252.35S	80.19W	FARM 7-5-32 FRYE FARM 7-5-32	3903.33	3845.73	828.79S	2996.66E	-100.7	3336.96	3323.89	255.42
2813.00	2788.17	269.94S	85.78W	FARM 7-5-32 FRYE FARM 7-5-32	3995.24	3931.94	820.93S	2965.76E	-101.1	3305.10	3291.59	244.65
2913.00	2886.45	287.53S	91.37W	FARM 7-5-32 FRYE FARM 7-5-32	4062.00	3994.64	815.10S	2943.62E	-101.4	3273.77	3259.89	235.94
3013.00	2984.74	305.11S	96.96W	FARM 7-5-32 FRYE FARM 7-5-32	4104.00	4034.32	811.53S	2930.31E	-101.5	3243.83	3229.66	228.92
3113.00	3083.02	322.70S	102.54W	FARM 7-5-32 FRYE FARM 7-5-32	4146.00	4074.18	808.05S	2917.53E	-101.7	3215.40	3200.94	222.28
3213.00	3181.30	340.29S	108.13W	FARM 7-5-32 FRYE FARM 7-5-32	4227.78	4152.00	801.93S	2893.17E	-102.0	3187.98	3173.11	214.40
3313.00	3279.58	357.87S	113.72W	FARM 7-5-32 FRYE FARM 7-5-32	4378.51	4295.26	791.96S	2847.38E	-102.6	3160.41	3144.93	204.25

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3413.00	3377.87	375.46S	119.31W	FRYE FARM 7-5-32	4510.26	4419.69	783.76S	2804.86E	-103.2	3130.95	3114.90	195.10
3513.00	3476.15	393.05S	124.90W	FRYE FARM 7-5-32	4569.00	4475.11	780.56S	2785.66E	-103.4	3101.52	3085.11	188.96
3613.00	3574.43	410.63S	130.49W	FRYE FARM 7-5-32	4629.29	4532.26	777.26S	2766.74E	-103.6	3073.39	3056.61	183.11
3713.00	3672.72	428.22S	136.07W	FRYE FARM 7-5-32	4695.67	4595.43	773.71S	2746.68E	-103.9	3046.48	3029.32	177.47
3813.00	3771.00	445.81S	141.66W	FRYE FARM 7-5-32	4751.51	4648.77	771.29S	2730.35E	-104.1	3020.74	3003.23	172.45
3913.00	3869.28	463.39S	147.25W	FRYE FARM 7-5-32	4828.62	4722.63	768.57S	2708.39E	-104.4	2996.00	2978.08	167.18
4013.00	3967.56	480.98S	152.84W	FRYE FARM 7-5-32	4908.00	4798.82	765.90S	2686.25E	-104.7	2971.97	2953.64	162.17
4113.00	4065.85	498.57S	158.43W	FRYE FARM 7-5-32	4959.57	4848.45	764.16S	2672.33E	-104.9	2948.94	2930.28	158.04
4213.00	4164.13	516.15S	164.02W	FRYE FARM 7-5-32	5031.17	4917.56	761.68S	2653.79E	-105.2	2927.11	2908.07	153.72
4313.00	4262.41	533.74S	169.61W	FRYE FARM 7-5-32	5066.50	4951.78	760.44S	2645.08E	-105.3	2906.72	2887.39	150.38
4413.00	4360.69	551.33S	175.19W	FRYE FARM 7-5-32	5125.35	5009.03	758.41S	2631.62E	-105.5	2888.15	2868.48	146.85
4513.00	4458.98	568.91S	180.78W	FRYE FARM 7-5-32	5161.00	5043.84	757.20S	2624.05E	-105.7	2871.34	2851.38	143.88
4613.00	4557.26	586.50S	186.37W	FRYE FARM 7-5-32	5210.39	5092.24	755.61S	2614.33E	-105.9	2856.34	2836.09	141.00
4713.00	4655.54	604.09S	191.96W	FRYE FARM 7-5-32	5269.59	5150.44	753.86S	2603.64E	-106.1	2843.01	2822.43	138.15
4813.00	4753.82	621.67S	197.55W	FRYE FARM 7-5-32	5330.67	5210.66	752.20S	2593.59E	-106.4	2831.29	2810.40	135.53
4913.00	4852.11	639.26S	203.14W	FRYE FARM 7-5-32	5373.33	5252.83	751.13S	2587.19E	-106.5	2821.18	2800.01	133.27
5013.00	4950.39	656.85S	208.72W	FRYE FARM 7-5-32	5434.22	5313.14	749.71S	2578.92E	-106.8	2812.68	2791.21	130.99
5113.00	5048.67	674.43S	214.31W	FRYE FARM 7-5-32	5500.67	5379.07	748.25S	2570.86E	-107.1	2805.67	2783.90	128.87
5213.00	5146.96	692.02S	219.90W	FRYE FARM 7-5-32	5543.00	5421.16	747.39S	2566.36E	-107.2	2800.27	2778.23	127.07
5313.00	5245.24	709.61S	225.49W	FRYE FARM 7-5-32	5613.56	5491.38	745.87S	2559.61E	-107.5	2796.20	2773.86	125.20
5413.00	5343.52	727.19S	231.08W	FRYE FARM 7-5-32	5695.97	5573.46	743.91S	2552.54E	-107.8	2793.15	2770.50	123.34
5513.00	5441.80	744.78S	236.67W	FRYE FARM 7-5-32	5787.57	5664.74	742.09S	2545.14E	-108.2	2790.72	2767.76	121.50
5613.00	5540.09	762.37S	242.26W	FRYE FARM 7-5-32	5837.33	5714.37	741.51S	2541.47E	-108.4	2789.25	2766.03	120.12
5666.71	5592.87	771.81S	245.26W	FRYE FARM 7-5-32	5879.67	5756.62	741.42S	2538.91E	-108.6	2789.14	2765.77	119.34
5672.45	5598.51	772.82S	245.58W	FRYE FARM 7-5-32	5879.67	5756.62	741.42S	2538.91E	-108.6	2789.15	2765.77	119.28

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Wellpath: PAVISTMA 4 #1-6-32-090-4-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
5713.00	5638.37	779.95S	247.84W	7-5-32 FRYE FARM	5896.31	5773.24	741.53S	2538.10E	-108.6	2789.48	2766.00	118.81
5813.00	5736.65	797.54S	253.43W	7-5-32 FRYE FARM	5970.35	5847.21	742.15S	2534.96E	-108.9	2791.13	2767.40	117.59
5913.00	5834.93	815.13S	259.02W	7-5-32 FRYE FARM	6049.00	5925.81	742.60S	2532.20E	-109.1	2793.64	2769.65	116.45
6013.00	5933.22	832.71S	264.61W	7-5-32 FRYE FARM	6121.58	5998.36	742.82S	2530.18E	-109.4	2796.99	2772.75	115.41
6113.00	6031.50	850.30S	270.20W	7-5-32 FRYE FARM	6204.96	6081.72	743.13S	2528.40E	-109.7	2801.10	2776.61	114.38
6213.00	6129.78	867.89S	275.79W	7-5-32 FRYE FARM	6289.14	6165.89	743.49S	2527.16E	-110.0	2805.94	2781.20	113.42
6313.00	6228.06	885.47S	281.37W	7-5-32 FRYE FARM	6374.10	6250.85	743.86S	2526.27E	-110.3	2811.31	2786.32	112.51
6413.00	6326.35	903.06S	286.96W	7-5-32 FRYE FARM	6461.13	6337.88	744.26S	2525.71E	-110.6	2817.18	2791.94	111.65
6477.12	6389.36	914.33S	290.55W	7-5-32 FRYE FARM	6524.22	6400.96	744.59S	2525.47E	-110.8	2821.15	2795.76	111.12
6513.00	6424.67	920.64S	291.43W	7-5-32 FRYE FARM	6550.32	6427.06	744.76S	2525.46E	-91.4	2822.37	2796.90	110.80
6613.00	6522.58	938.00S	282.06W	7-5-32 FRYE FARM	6639.16	6515.90	745.41S	2525.49E	-48.3	2814.15	2788.43	109.42
6713.00	6617.42	954.63S	255.56W	7-5-32 FRYE FARM	6724.98	6601.72	746.18S	2525.78E	-31.0	2789.19	2763.22	107.40
6813.00	6706.33	970.03S	212.75W	7-5-32 FRYE FARM	6809.33	6686.06	747.19S	2526.33E	-23.9	2748.21	2722.00	104.84
6913.00	6786.60	983.73S	154.92W	7-5-32 FRYE FARM	6886.24	6762.96	748.51S	2527.13E	-20.9	2692.45	2665.99	101.76
7013.00	6855.79	995.31S	83.83W	7-5-32 FRYE FARM	6947.76	6824.46	749.79S	2527.92E	-20.0	2623.46	2596.75	98.24
7113.00	6911.79	1004.42S	1.64W	7-5-32 FRYE FARM	7000.35	6877.03	750.97S	2528.67E	-20.9	2543.21	2516.26	94.36
7213.00	6952.91	1010.79S	89.15E	7-5-32 FRYE FARM	7043.10	6919.75	752.07S	2529.36E	-24.8	2454.12	2426.93	90.26
7313.00	6977.90	1014.21S	185.79E	7-5-32 FRYE FARM	7069.74	6946.38	752.76S	2529.80E	-36.2	2358.76	2331.34	86.03
7410.23	6986.00	1014.63S	282.56E	7-5-32 FRYE FARM	7079.43	6956.06	753.01S	2529.96E	-82.8	2262.77	2235.15	81.90
7413.00	6986.00	1014.60S	285.33E	7-5-32 FRYE FARM	7079.47	6956.11	753.01S	2529.96E	-82.8	2260.02	2232.38	81.78
7513.00	6986.00	1013.53S	385.32E	7-5-32 FRYE FARM	7081.07	6957.71	753.05S	2529.98E	-83.2	2160.61	2132.76	77.58
7613.00	6986.00	1012.47S	485.32E	7-5-32 FRYE FARM	7082.68	6959.32	753.09S	2530.01E	-83.6	2061.25	2033.17	73.40
7713.00	6986.00	1011.40S	585.31E	7-5-32 FRYE FARM	7084.28	6960.92	753.13S	2530.04E	-84.0	1961.96	1933.62	69.24
7813.00	6986.00	1010.34S	685.31E	7-5-32 FRYE FARM	7085.89	6962.52	753.18S	2530.06E	-84.3	1862.74	1834.13	65.10
7913.00	6986.00	1009.27S	785.30E	7-5-32 FRYE FARM	7087.49	6964.13	753.22S	2530.09E	-84.7	1763.61	1734.69	60.99

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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
8013.00	6986.00	1008.20S	885.30E	FARM 7-5-32 FRYE FARM	7089.10	6965.73	753.26S	2530.12E	-85.1	1664.58	1635.33	56.90
8113.00	6986.00	1007.14S	985.29E	FARM 7-5-32 FRYE FARM	7090.70	6967.33	753.30S	2530.14E	-85.5	1565.68	1536.04	52.83
8213.00	6986.00	1006.07S	1085.28E	FARM 7-5-32 FRYE FARM	7092.30	6968.94	753.34S	2530.17E	-85.9	1466.92	1436.86	48.80
8313.00	6986.00	1005.01S	1185.28E	FARM 7-5-32 FRYE FARM	7093.91	6970.54	753.38S	2530.19E	-86.3	1368.34	1337.79	44.80
8413.00	6986.00	1003.94S	1285.27E	FARM 7-5-32 FRYE FARM	7095.51	6972.14	753.42S	2530.22E	-86.7	1269.98	1238.87	40.83
8513.00	6986.00	1002.88S	1385.27E	FARM 7-5-32 FRYE FARM	7097.12	6973.75	753.47S	2530.25E	-87.0	1171.89	1140.14	36.91
8613.00	6986.00	1001.81S	1485.26E	FARM 7-5-32 FRYE FARM	7098.72	6975.35	753.51S	2530.27E	-87.4	1074.16	1041.64	33.03
8713.00	6986.00	1000.75S	1585.26E	FARM 7-5-32 FRYE FARM	7100.33	6976.95	753.55S	2530.30E	-87.8	976.88	943.43	29.21
8813.00	6986.00	999.68S	1685.25E	FARM 7-5-32 FRYE FARM	7101.93	6978.56	753.59S	2530.32E	-88.2	880.21	845.64	25.46
8913.00	6986.00	998.61S	1785.24E	FARM 7-5-32 FRYE FARM	7103.53	6980.16	753.63S	2530.35E	-88.6	784.37	748.39	21.80
9013.00	6986.00	997.55S	1885.24E	FARM 7-5-32 FRYE FARM	7105.14	6981.77	753.67S	2530.38E	-89.0	689.71	651.95	18.27
9113.00	6986.00	996.48S	1985.23E	FARM 7-5-32 FRYE FARM	7106.74	6983.37	753.71S	2530.40E	-89.4	596.79	556.70	14.89
9213.00	6986.00	995.42S	2085.23E	FARM 7-5-32 FRYE FARM	7108.35	6984.97	753.76S	2530.43E	-89.8	506.56	463.38	11.73
9313.00	6986.00	994.35S	2185.22E	FARM 7-5-32 FRYE FARM	7109.95	6986.58	753.80S	2530.46E	-90.1	420.78	373.43	8.89
9413.00	6986.00	993.29S	2285.22E	FARM 7-5-32 FRYE FARM	7111.56	6988.18	753.84S	2530.48E	-90.5	342.78	289.97	6.49
9513.00	6986.00	992.22S	2385.21E	FARM 7-5-32 FRYE FARM	7113.16	6989.78	753.88S	2530.51E	-90.9	279.16	220.19	4.73
9613.00	6986.00	991.16S	2485.20E	FARM 7-5-32 FRYE FARM	7114.76	6991.39	753.92S	2530.53E	-91.3	241.59	179.24	3.87
9642.27	6986.00	990.84S	2514.47E	FARM 7-5-32 FRYE FARM	7115.23	6991.86	753.93S	2530.54E	-91.4	237.53	175.60	3.84
9660.87	6986.00	990.65S	2533.07E	FARM 7-5-32 FRYE FARM	7115.53	6992.15	753.94S	2530.55E	-91.5	236.80	175.57	3.87
9713.00	6986.00	990.09S	2585.20E	FARM 7-5-32 FRYE FARM	7116.37	6992.99	753.96S	2530.56E	-91.7	242.47	184.83	4.21
9813.00	6986.00	989.02S	2685.19E	FARM 7-5-32 FRYE FARM	7117.97	6994.59	754.00S	2530.59E	-92.1	281.45	234.24	5.96
9913.00	6986.00	987.96S	2785.19E	FARM 7-5-32 FRYE FARM	7119.58	6996.20	754.05S	2530.61E	-92.5	345.87	308.11	9.16
10013.00	6986.00	986.89S	2885.18E	FARM 7-5-32 FRYE FARM	7121.18	6997.80	754.09S	2530.64E	-92.9	424.31	392.85	13.49
10113.00	6986.00	985.83S	2985.18E	FARM 7-5-32 FRYE FARM	7122.78	6999.40	754.13S	2530.66E	-93.2	510.34	482.64	18.43

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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
10213.00	6986.00	984.76S	3085.17E	FRYE FARM 7-5-32	7124.39	7001.01	754.17S	2530.69E	-93.6	600.70	575.15	23.51
10313.00	6986.00	983.70S	3185.17E	FRYE FARM 7-5-32	7125.99	7002.61	754.21S	2530.72E	-94.0	693.72	669.34	28.46
10413.00	6986.00	982.63S	3285.16E	FRYE FARM 7-5-32	7127.60	7004.21	754.25S	2530.74E	-94.4	788.44	764.69	33.20
10513.00	6986.00	981.57S	3385.15E	FRYE FARM 7-5-32	7129.20	7005.82	754.29S	2530.77E	-94.8	884.32	860.87	37.72
10613.00	6986.00	980.50S	3485.15E	FRYE FARM 7-5-32	7130.81	7007.42	754.34S	2530.80E	-95.2	981.02	957.69	42.05
10713.00	6986.00	979.43S	3585.14E	FRYE FARM 7-5-32	7132.41	7009.02	754.38S	2530.82E	-95.6	1078.32	1055.00	46.23
10813.00	6986.00	978.37S	3685.14E	FRYE FARM 7-5-32	7134.01	7010.63	754.42S	2530.85E	-96.0	1176.07	1152.69	50.30
10913.00	6986.00	977.30S	3785.13E	FRYE FARM 7-5-32	7135.62	7012.23	754.46S	2530.87E	-96.3	1274.17	1250.69	54.27
11013.00	6986.00	976.24S	3885.13E	FRYE FARM 7-5-32	7137.22	7013.84	754.50S	2530.90E	-96.7	1372.54	1348.94	58.16
11113.00	6986.00	975.17S	3985.12E	FRYE FARM 7-5-32	7138.83	7015.44	754.54S	2530.93E	-97.1	1471.13	1447.40	61.99
11213.00	6986.00	974.11S	4085.11E	FRYE FARM 7-5-32	7140.43	7017.04	754.58S	2530.95E	-97.5	1569.90	1546.03	65.77
11313.00	6986.00	973.04S	4185.11E	FRYE FARM 7-5-32	7142.04	7018.65	754.63S	2530.98E	-97.9	1668.81	1644.80	69.50
11413.00	6986.00	971.98S	4285.10E	FRYE FARM 7-5-32	7145.17	7021.78	754.71S	2531.03E	-98.6	1767.84	1743.69	73.20
11513.00	6986.00	970.91S	4385.10E	FRYE FARM 7-5-32	7146.84	7023.45	754.76S	2531.06E	-99.0	1866.97	1842.68	76.86
11613.00	6986.00	969.84S	4485.09E	FRYE FARM 7-5-32	7148.51	7025.12	754.80S	2531.09E	-99.4	1966.19	1941.76	80.49
11713.00	6986.00	968.78S	4585.09E	FRYE FARM 7-5-32	7150.18	7026.79	754.85S	2531.12E	-99.8	2065.48	2040.92	84.09
11783.72	6986.00	968.03S	4655.80E	FRYE FARM 7-5-32	7151.36	7027.97	754.88S	2531.14E	-100.1	2135.74	2111.09	86.62

Offset Wellbore Survey Tool Programs

Well	Wellbore	Survey Name	MD[ft]	Survey Tool	Error Model
FRYE FARM 7-5-32	FRYE FARM 7-5-32 (AWB)	ACTUAL	7593.00	ISCWSA MWD	Rev 0

Clearance Data

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13.00	13.00	0.00N	0.00E	RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	105.4	7727.52	7706.63	369.91
113.00	113.00	0.00N	0.00E	RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	105.4	7635.95	7615.01	364.71

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Clearance Data

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213.00	213.00	0.00N	0.00E	RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	105.4	7544.60	7523.61	359.55
313.00	313.00	0.00N	0.00E	RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	105.4	7453.46	7432.44	354.45
413.00	413.00	0.00N	0.00E	RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	105.4	7362.56	7341.49	349.40
513.00	513.00	0.00N	0.00E	RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	105.4	7271.90	7250.78	344.39
613.00	613.00	0.00N	0.00E	RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	105.4	7181.49	7160.33	339.43
713.00	713.00	0.00N	0.00E	RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	105.4	7091.33	7070.13	334.53
813.00	813.00	0.00N	0.00E	RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	105.4	7001.44	6980.20	329.67
913.00	913.00	0.00N	0.00E	RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	105.4	6911.83	6890.55	324.87
1013.00	1013.00	0.00N	0.00E	RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	105.4	6822.50	6801.19	320.11
1113.00	1112.98	1.66S	0.53W	RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	-96.1	6733.53	6712.18	315.45
1213.00	1212.84	6.65S	2.11W	RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	-99.8	6645.04	6623.66	310.90
1313.00	1312.45	14.96S	4.75W	RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	-103.5	6557.17	6535.77	306.46
1413.00	1411.70	26.57S	8.44W	RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	-106.9	6470.04	6448.63	302.12
1513.00	1510.47	41.48S	13.18W	RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	-110.1	6383.81	6362.38	297.84
1544.69	1541.64	46.89S	14.90W	RANCHO WATER VALLEY 13 #7-6-33-27	14185.47	7097.00	821.71S	2975.95E	-111.1	6356.69	6335.23	296.26

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1613.00	1608.78	58.90S	18.72W	0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27	14185.47	7097.00	821.71S	2975.95E	-111.1	6298.45	6276.99	293.49
1713.00	1707.06	76.49S	24.31W	0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27	14185.47	7097.00	821.71S	2975.95E	-111.1	6213.56	6192.08	289.34
1813.00	1805.35	94.07S	29.89W	0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27	14185.47	7097.00	821.71S	2975.95E	-111.1	6129.12	6107.62	285.09
1913.00	1903.63	111.66S	35.48W	0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27	14185.47	7097.00	821.71S	2975.95E	-111.1	6045.16	6023.64	280.85
2013.00	2001.91	129.25S	41.07W	0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27	14185.47	7097.00	821.71S	2975.95E	-111.1	5961.70	5940.15	276.61
2113.00	2100.19	146.83S	46.66W	0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27	14185.47	7097.00	821.71S	2975.95E	-111.1	5878.75	5857.17	272.39
2213.00	2198.48	164.42S	52.25W	0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27	14185.47	7097.00	821.71S	2975.95E	-111.1	5796.34	5774.72	268.18
2313.00	2296.76	182.01S	57.84W	0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27	14185.47	7097.00	821.71S	2975.95E	-111.1	5714.49	5692.84	263.99
2413.00	2395.04	199.59S	63.42W	0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27	14185.47	7097.00	821.71S	2975.95E	-111.1	5633.23	5611.54	259.83
2513.00	2493.32	217.18S	69.01W	0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27	14185.47	7097.00	821.71S	2975.95E	-111.1	5552.57	5530.86	255.68
2613.00	2591.61	234.77S	74.60W	0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27	14185.47	7097.00	821.71S	2975.95E	-111.1	5472.56	5450.81	251.57
2713.00	2689.89	252.35S	80.19W	0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27	14185.47	7097.00	821.71S	2975.95E	-111.1	5393.22	5371.42	247.47
2813.00	2788.17	269.94S	85.78W	0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27	14185.47	7097.00	821.71S	2975.95E	-111.1	5314.57	5292.73	243.41
2913.00	2886.45	287.53S	91.37W	0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27	14185.47	7097.00	821.71S	2975.95E	-111.1	5236.65	5214.77	239.37
3013.00	2984.74	305.11S	96.96W	0-6-CH RANCHO WATER VALLEY 13	14185.47	7097.00	821.71S	2975.95E	-111.1	5159.49	5137.57	235.35

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SYSDRILL
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Wellbore: PAVISTMA 4 #1-6-32-090-4-NH (PWB)
Wellpath: PAVISTMA 4 #1-6-32-090-4-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
3113.00	3083.02	322.70S	102.54W	#7-6-33-27 0-6-CH RANCHO WATER VALLEY 13	14185.47	7097.00	821.71S	2975.95E	-111.1	5083.12	5061.16	231.37
3213.00	3181.30	340.29S	108.13W	#7-6-33-27 0-6-CH RANCHO WATER VALLEY 13	14185.47	7097.00	821.71S	2975.95E	-111.1	5007.59	4985.57	227.41
3313.00	3279.58	357.87S	113.72W	#7-6-33-27 0-6-CH RANCHO WATER VALLEY 13	14185.47	7097.00	821.71S	2975.95E	-111.1	4932.94	4910.86	223.49
3413.00	3377.87	375.46S	119.31W	#7-6-33-27 0-6-CH RANCHO WATER VALLEY 13	14185.47	7097.00	821.71S	2975.95E	-111.1	4859.19	4837.06	219.59
3513.00	3476.15	393.05S	124.90W	#7-6-33-27 0-6-CH RANCHO WATER VALLEY 13	14185.47	7097.00	821.71S	2975.95E	-111.1	4786.39	4764.20	215.72
3613.00	3574.43	410.63S	130.49W	#7-6-33-27 0-6-CH RANCHO WATER VALLEY 13	14185.47	7097.00	821.71S	2975.95E	-111.1	4714.59	4692.34	211.89
3713.00	3672.72	428.22S	136.07W	#7-6-33-27 0-6-CH RANCHO WATER VALLEY 13	14185.47	7097.00	821.71S	2975.95E	-111.1	4643.84	4621.52	208.08
3813.00	3771.00	445.81S	141.66W	#7-6-33-27 0-6-CH RANCHO WATER VALLEY 13	14185.47	7097.00	821.71S	2975.95E	-111.1	4574.18	4551.79	204.30
3913.00	3869.28	463.39S	147.25W	#7-6-33-27 0-6-CH RANCHO WATER VALLEY 13	14185.47	7097.00	821.71S	2975.95E	-111.1	4505.66	4483.19	200.56
4013.00	3967.56	480.98S	152.84W	#7-6-33-27 0-6-CH RANCHO WATER VALLEY 13	14185.47	7097.00	821.71S	2975.95E	-111.1	4438.33	4415.78	196.84
4113.00	4065.85	498.57S	158.43W	#7-6-33-27 0-6-CH RANCHO WATER VALLEY 13	14185.47	7097.00	821.71S	2975.95E	-111.1	4372.26	4349.62	193.16
4213.00	4164.13	516.15S	164.02W	#7-6-33-27 0-6-CH RANCHO WATER VALLEY 13	14185.47	7097.00	821.71S	2975.95E	-111.1	4307.49	4284.76	189.51
4313.00	4262.41	533.74S	169.61W	#7-6-33-27 0-6-CH RANCHO WATER VALLEY 13	14185.47	7097.00	821.71S	2975.95E	-111.1	4244.09	4221.26	185.89
4413.00	4360.69	551.33S	175.19W	#7-6-33-27 0-6-CH RANCHO WATER VALLEY 13	14185.47	7097.00	821.71S	2975.95E	-111.1	4182.12	4159.18	182.30
4513.00	4458.98	568.91S	180.78W	#7-6-33-27 0-6-CH RANCHO WATER	14185.47	7097.00	821.71S	2975.95E	-111.1	4121.65	4098.59	178.74

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Clearance Data

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4613.00	4557.26	586.50S	186.37W	VALLEY 13 #7-6-33-27 0-6-CH RANCHO WATER	14185.47	7097.00	821.71S	2975.95E	-111.1	4062.74	4039.55	175.22
4713.00	4655.54	604.09S	191.96W	VALLEY 13 #7-6-33-27 0-6-CH RANCHO WATER	14185.47	7097.00	821.71S	2975.95E	-111.1	4005.46	3982.14	171.74
4813.00	4753.82	621.67S	197.55W	VALLEY 13 #7-6-33-27 0-6-CH RANCHO WATER	14185.47	7097.00	821.71S	2975.95E	-111.1	3949.88	3926.41	168.29
4913.00	4852.11	639.26S	203.14W	VALLEY 13 #7-6-33-27 0-6-CH RANCHO WATER	14185.47	7097.00	821.71S	2975.95E	-111.1	3896.08	3872.44	164.88
5013.00	4950.39	656.85S	208.72W	VALLEY 13 #7-6-33-27 0-6-CH RANCHO WATER	14185.47	7097.00	821.71S	2975.95E	-111.1	3844.12	3820.32	161.51
5113.00	5048.67	674.43S	214.31W	VALLEY 13 #7-6-33-27 0-6-CH RANCHO WATER	14185.47	7097.00	821.71S	2975.95E	-111.1	3794.09	3770.10	158.18
5213.00	5146.96	692.02S	219.90W	VALLEY 13 #7-6-33-27 0-6-CH RANCHO WATER	14185.47	7097.00	821.71S	2975.95E	-111.1	3746.06	3721.87	154.90
5313.00	5245.24	709.61S	225.49W	VALLEY 13 #7-6-33-27 0-6-CH RANCHO WATER	14185.47	7097.00	821.71S	2975.95E	-111.1	3700.11	3675.71	151.67
5413.00	5343.52	727.19S	231.08W	VALLEY 13 #7-6-33-27 0-6-CH RANCHO WATER	14185.47	7097.00	821.71S	2975.95E	-111.1	3656.31	3631.69	148.49
5513.00	5441.80	744.78S	236.67W	VALLEY 13 #7-6-33-27 0-6-CH RANCHO WATER	14185.47	7097.00	821.71S	2975.95E	-111.1	3614.76	3589.89	145.37
5613.00	5540.09	762.37S	242.26W	VALLEY 13 #7-6-33-27 0-6-CH RANCHO WATER	14185.47	7097.00	821.71S	2975.95E	-111.1	3575.52	3550.39	142.31
5713.00	5638.37	779.95S	247.84W	VALLEY 13 #7-6-33-27 0-6-CH RANCHO WATER	14185.47	7097.00	821.71S	2975.95E	-111.1	3538.67	3513.27	139.33
5813.00	5736.65	797.54S	253.43W	VALLEY 13 #7-6-33-27 0-6-CH RANCHO WATER	14185.47	7097.00	821.71S	2975.95E	-111.1	3504.29	3478.60	136.41
5913.00	5834.93	815.13S	259.02W	VALLEY 13 #7-6-33-27 0-6-CH RANCHO WATER	14185.47	7097.00	821.71S	2975.95E	-111.1	3472.44	3446.45	133.58
6013.00	5933.22	832.71S	264.61W	VALLEY 13 #7-6-33-27 0-6-CH RANCHO	14185.47	7097.00	821.71S	2975.95E	-111.1	3443.21	3416.90	130.84

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Clearance Data

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6113.00	6031.50	850.30S	270.20W	WATER VALLEY 13 #7-6-33-27 0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	-111.1	3416.66	3390.01	128.19
6213.00	6129.78	867.89S	275.79W	WATER VALLEY 13 #7-6-33-27 0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	-111.1	3392.85	3365.84	125.65
6313.00	6228.06	885.47S	281.37W	WATER VALLEY 13 #7-6-33-27 0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	-111.1	3371.83	3344.47	123.21
6413.00	6326.35	903.06S	286.96W	WATER VALLEY 13 #7-6-33-27 0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	-111.1	3353.67	3325.93	120.88
6477.12	6389.36	914.33S	290.55W	WATER VALLEY 13 #7-6-33-27 0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	-111.1	3343.55	3315.56	119.45
6513.00	6424.67	920.64S	291.43W	WATER VALLEY 13 #7-6-33-27 0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	-91.6	3337.30	3309.17	118.64
6613.00	6522.58	938.00S	282.06W	WATER VALLEY 13 #7-6-33-27 0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	-48.3	3310.30	3281.77	116.03
6713.00	6617.42	954.63S	255.56W	WATER VALLEY 13 #7-6-33-27 0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	-30.8	3269.60	3240.67	113.00
6813.00	6706.33	970.03S	212.75W	WATER VALLEY 13 #7-6-33-27 0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	-23.5	3215.96	3186.62	109.60
6913.00	6786.60	983.73S	154.92W	WATER VALLEY 13 #7-6-33-27 0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	-20.1	3150.39	3120.64	105.91
7013.00	6855.79	995.31S	83.83W	WATER VALLEY 13 #7-6-33-27 0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	-18.8	3074.18	3044.04	102.01
7113.00	6911.79	1004.42S	1.64W	WATER VALLEY 13 #7-6-33-27 0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	-19.3	2988.93	2958.43	97.98
7213.00	6952.91	1010.79S	89.15E	WATER VALLEY 13 #7-6-33-27 0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	-22.5	2896.57	2865.73	93.91
7313.00	6977.90	1014.21S	185.79E	WATER VALLEY 13 #7-6-33-27 0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	-35.5	2799.33	2768.19	89.91

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Clearance Data

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7410.23	6986.00	1014.63S	282.56E	RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	-124.1	2702.57	2671.20	86.16
7413.00	6986.00	1014.60S	285.33E	RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	-124.1	2699.81	2668.43	86.05
7513.00	6986.00	1013.53S	385.32E	RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	-124.1	2600.09	2568.50	82.31
7613.00	6986.00	1012.47S	485.32E	RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	-124.1	2500.39	2468.57	78.58
7713.00	6986.00	1011.40S	585.31E	RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	-124.1	2400.72	2368.65	74.88
7813.00	6986.00	1010.34S	685.31E	RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	-124.1	2301.07	2268.75	71.19
7913.00	6986.00	1009.27S	785.30E	RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	-124.1	2201.46	2168.86	67.52
8013.00	6986.00	1008.20S	885.30E	RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	-124.1	2101.89	2068.98	63.87
8113.00	6986.00	1007.14S	985.29E	RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	-124.1	2002.35	1969.11	60.24
8213.00	6986.00	1006.07S	1085.28E	RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	-124.1	1902.87	1869.27	56.63
8313.00	6986.00	1005.01S	1185.28E	RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	-124.1	1803.44	1769.45	53.05
8413.00	6986.00	1003.94S	1285.27E	RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	-124.1	1704.09	1669.66	49.49
8513.00	6986.00	1002.88S	1385.27E	RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	-124.1	1604.81	1569.89	45.96
8613.00	6986.00	1001.81S	1485.26E	RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH	14185.47	7097.00	821.71S	2975.95E	-124.1	1505.62	1470.16	42.46
8713.00	6986.00	1000.75S	1585.26E	RANCHO WATER VALLEY 13 #7-6-33-27	14185.47	7097.00	821.71S	2975.95E	-124.1	1406.55	1370.48	38.99

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8813.00	6986.00	999.68S	1685.25E	0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27	14185.47	7097.00	821.71S	2975.95E	-124.1	1307.63	1270.85	35.56
8913.00	6986.00	998.61S	1785.24E	0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27	14185.47	7097.00	821.71S	2975.95E	-124.1	1208.88	1171.30	32.17
9013.00	6986.00	997.55S	1885.24E	0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27	14185.47	7097.00	821.71S	2975.95E	-124.1	1110.35	1071.83	28.82
9113.00	6986.00	996.48S	1985.23E	0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27	14185.47	7097.00	821.71S	2975.95E	-124.1	1012.12	972.47	25.53
9213.00	6986.00	995.42S	2085.23E	0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27	14185.47	7097.00	821.71S	2975.95E	-124.1	914.26	873.28	22.31
9313.00	6986.00	994.35S	2185.22E	0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27	14185.47	7097.00	821.71S	2975.95E	-124.1	816.93	774.29	19.16
9413.00	6986.00	993.29S	2285.22E	0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27	14185.47	7097.00	821.71S	2975.95E	-124.1	720.32	675.63	16.11
9513.00	6986.00	992.22S	2385.21E	0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27	14185.47	7097.00	821.71S	2975.95E	-124.1	624.79	577.44	13.20
9613.00	6986.00	991.16S	2485.20E	0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27	14185.47	7097.00	821.71S	2975.95E	-124.1	530.90	480.06	10.44
9713.00	6986.00	990.09S	2585.20E	0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27	14185.47	7097.00	821.71S	2975.95E	-124.1	439.72	384.13	7.91
9813.00	6986.00	989.02S	2685.19E	0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27	14185.47	7097.00	821.71S	2975.95E	-124.1	353.34	291.21	5.69
9913.00	6986.00	987.96S	2785.19E	0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27	14185.47	7097.00	821.71S	2975.95E	-124.1	276.31	205.58	3.91
10013.00	6986.00	986.89S	2885.18E	0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27	14185.47	7097.00	821.71S	2975.95E	-124.1	218.73	139.81	2.77
10085.18	6986.00	986.12S	2957.36E	0-6-CH RANCHO WATER VALLEY 13 #7-6-33-27	14185.47	7097.00	821.71S	2975.95E	-124.1	199.24	120.28	2.52
10105.52	6986.00	985.91S	2977.70E	0-6-CH RANCHO WATER VALLEY 13	14185.47	7097.00	821.71S	2975.95E	-124.1	198.20	120.89	2.56

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Prepared by Peterson Energy
Date Printed: 28-Jan-2013

SYSDRILL
Closest Approach + Clearance Factor Report
Wellbore: PAVISTMA 4 #1-6-32-090-4-NH (PWB)
Wellpath: PAVISTMA 4 #1-6-32-090-4-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
10113.00	6986.00	985.83S	2985.18E	#7-6-33-27 0-6-CH RANCHO WATER VALLEY 13	14178.37	7097.00	821.62S	2983.04E	-124.1	198.22	120.94	2.56
10213.00	6986.00	984.76S	3085.17E	#7-6-33-27 0-6-CH RANCHO WATER VALLEY 13	14078.37	7097.00	820.32S	3083.03E	-124.0	198.41	121.12	2.57
10313.00	6986.00	983.70S	3185.17E	#7-6-33-27 0-6-CH RANCHO WATER VALLEY 13	13978.37	7097.00	819.02S	3183.03E	-124.0	198.60	121.30	2.57
10314.84	6986.00	983.68S	3187.00E	#7-6-33-27 0-6-CH RANCHO WATER VALLEY 13	13976.54	7097.00	819.00S	3184.86E	-124.0	198.61	121.31	2.57
10413.00	6986.00	982.63S	3285.16E	#7-6-33-27 0-6-CH RANCHO WATER VALLEY 13	13878.37	7097.00	817.72S	3283.02E	-123.9	198.80	121.49	2.57
10413.26	6986.00	982.63S	3285.42E	#7-6-33-27 0-6-CH RANCHO WATER VALLEY 13	13878.11	7097.00	817.72S	3283.28E	-123.9	198.80	121.49	2.57
10513.00	6986.00	981.57S	3385.15E	#7-6-33-27 0-6-CH RANCHO WATER VALLEY 13	13778.37	7097.00	816.42S	3383.01E	-123.9	198.99	121.67	2.57
10613.00	6986.00	980.50S	3485.15E	#7-6-33-27 0-6-CH RANCHO WATER VALLEY 13	13678.37	7097.00	815.12S	3483.00E	-123.9	199.19	121.85	2.58
10713.00	6986.00	979.43S	3585.14E	#7-6-33-27 0-6-CH RANCHO WATER VALLEY 13	13578.37	7097.00	813.83S	3582.99E	-123.8	199.38	122.02	2.58
10813.00	6986.00	978.37S	3685.14E	#7-6-33-27 0-6-CH RANCHO WATER VALLEY 13	13478.37	7097.00	812.53S	3682.98E	-123.8	199.57	122.20	2.58
10913.00	6986.00	977.30S	3785.13E	#7-6-33-27 0-6-CH RANCHO WATER VALLEY 13	13378.37	7097.00	811.23S	3782.97E	-123.8	199.77	122.38	2.58
11013.00	6986.00	976.24S	3885.13E	#7-6-33-27 0-6-CH RANCHO WATER VALLEY 13	13278.37	7097.00	809.93S	3882.96E	-123.7	199.96	122.55	2.58
11113.00	6986.00	975.17S	3985.12E	#7-6-33-27 0-6-CH RANCHO WATER VALLEY 13	13178.37	7097.00	808.63S	3982.96E	-123.7	200.16	122.73	2.59
11213.00	6986.00	974.11S	4085.11E	#7-6-33-27 0-6-CH RANCHO WATER VALLEY 13	13078.37	7097.00	807.33S	4082.95E	-123.6	200.35	122.90	2.59
11313.00	6986.00	973.04S	4185.11E	#7-6-33-27 0-6-CH RANCHO WATER	12978.37	7097.00	806.03S	4182.94E	-123.6	200.54	123.08	2.59

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SYSDRILL
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Wellpath: PAVISTMA 4 #1-6-32-090-4-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
11413.00	6986.00	971.98S	4285.10E	VALLEY 13 #7-6-33-27 0-6-CH RANCHO WATER	12878.38	7097.00	804.73S	4282.93E	-123.6	200.74	123.25	2.59
11413.92	6986.00	971.97S	4286.02E	VALLEY 13 #7-6-33-27 0-6-CH RANCHO WATER	12877.46	7097.00	804.72S	4283.85E	-123.6	200.74	123.25	2.59
11513.00	6986.00	970.91S	4385.10E	VALLEY 13 #7-6-33-27 0-6-CH RANCHO WATER	12778.38	7097.00	803.43S	4382.92E	-123.5	200.93	123.42	2.59
11613.00	6986.00	969.84S	4485.09E	VALLEY 13 #7-6-33-27 0-6-CH RANCHO WATER	12678.38	7097.00	802.13S	4482.91E	-123.5	201.13	123.59	2.59
11713.00	6986.00	968.78S	4585.09E	VALLEY 13 #7-6-33-27 0-6-CH RANCHO WATER	12578.38	7097.00	800.83S	4582.90E	-123.5	201.32	123.77	2.60
11783.72	6986.00	968.03S	4655.80E	VALLEY 13 #7-6-33-27 0-6-CH RANCHO WATER	12507.65	7097.00	799.92S	4653.62E	-123.4	201.46	123.89	2.60

Offset Wellbore Survey Tool Programs

Well	Wellbore	Survey Name	MD[ft]	Survey Tool	Error Model
RANCHO WATER VALLEY 13 #7-6-33-270-6-CH	RANCHO WATER VALLEY 13 #7-6-33-270-6-CH (PWB)	Planned		WdW Rate Gyro	Standard

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