

Slider - Advanced Torque & Drag Analysis



Details

Operator	Installation	Slot	Well
Statoil	Veslefrikk A	Slot #9	30/3-A-19
Assembly Run	Wellbore	Assembly	Calculation Name
Drill 4 1/8" hole to TD	A-19 A PROPOSAL	A-19 A TTRD only 2 7/8" dp	T&D analysis at TD

Analysis Type

Calculation Type	Model
Surface Conditions	Soft String

Input Parameters

Hole Depth(m)	Bit Torque(N.m)	WOB(Tef)	
3172.00	1000.00	2.00	
Rotary Speed(rpm)	Rate of Penetration(m/hr)	Flow Rate(l/min)	Surface Pressure(bar)
50.00	5.00	450.00	220.00

Friction Factors

From MD (m)	From TVD (m)	To MD (m)	To TVD (m)	Friction Factor	Comments
0.00	30.87	3172.00	2908.87	0.200	

Wellbore Fluids

Name	From Annulus (m)	From Bore (m)	Density (SG)
Drilling Fluid	0.00	0.00	1.30

Hole Configuration

MD (m)	TVD (m)	Diameter (in)	Name	Open/Cased Hole
0.00	0.00	4.89	5 1/2in Surface casing	Cased
2791.73	2646.22	4.41	5.000in Liner	Cased
3141.13	2958.09	8.50	8 1/2 Hole Section	Open
3478.13	3292.11	8.50	8 1/2 Hole Section	Open
3024.00	2853.75	4.13	4 1/8 Hole Section	Open

Surface Conditions

Tension (On Bottom)(Tef)	PU Tension(Tef)	Torque (On Bottom)(N.m)	Neutral Point(m)	Twist(deg)
36.79	44.39	3270.89	2885.90	2444.84
Tension (Off Bottom)(Tef)	Tension (Slack Off)(Tef)	Torque (Off Bottom)(N.m)	Neutral Component	Stretch(m)
38.83	34.01	2163.58	2-7/8" Drill pipe KO-110SS 9.5#	1.25

Created By

Comments

Stress Results

MD (m)	TVD (m)	Inc. (deg)	DLS (deg/30m)	Bending Stress (bar)	Axial Stress (bar)	Von Mises Stress (bar)	Yield Stress (bar)	% Yield	Weight Per Length (kg/m)	Component Name
0.00	0.00	0.00	0.00	0.00	1999.77	2207.08	7239.50	30.49	16.09	2-7/8" Drill pipe KO-110SS 9.5#
0.10	0.10	0.00	0.00	0.00	1991.55	2200.49	7239.50	30.40	16.09	2-7/8" Drill pipe KO-110SS 9.5#
9.70	9.70	0.00	0.00	0.00	1983.34	2194.86	7239.50	30.32	16.09	2-7/8" Drill pipe KO-110SS 9.5#

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Stress Results

MD (m)	TVD (m)	Inc. (deg)	DLS (deg/30m)	Bending Stress (bar)	Axial Stress (bar)	Von Mises Stress (bar)	Yield Stress (bar)	% Yield	Weight Per Length (kg/m)	Component Name
19.30	19.30	0.00	0.00	0.00	1975.13	2189.22	7239.50	30.24	16.09	2-7/8" Drill pipe KO-110SS 9.5#
28.90	28.90	0.00	0.00	0.00	1966.91	2183.60	7239.50	30.16	16.09	2-7/8" Drill pipe KO-110SS 9.5#
38.50	38.50	0.00	0.02	1.07	1959.77	2178.81	7239.50	30.10	16.09	2-7/8" Drill pipe KO-110SS 9.5#
48.10	48.10	0.00	0.02	1.07	1951.55	2173.13	7239.50	30.02	16.09	2-7/8" Drill pipe KO-110SS 9.5#
57.70	57.70	0.00	0.02	1.07	1943.34	2167.45	7239.50	29.94	16.09	2-7/8" Drill pipe KO-110SS 9.5#
67.30	67.30	0.00	0.02	1.07	1935.13	2161.78	7239.50	29.86	16.09	2-7/8" Drill pipe KO-110SS 9.5#
76.90	76.90	0.00	0.02	1.07	1926.91	2156.11	7239.50	29.78	16.09	2-7/8" Drill pipe KO-110SS 9.5#
86.50	86.50	0.00	0.02	1.07	1918.70	2150.45	7239.50	29.70	16.09	2-7/8" Drill pipe KO-110SS 9.5#
96.10	96.10	0.00	0.02	1.07	1910.49	2144.80	7239.50	29.63	16.09	2-7/8" Drill pipe KO-110SS 9.5#
105.70	105.70	0.00	0.02	1.07	1902.27	2139.15	7239.50	29.55	16.09	2-7/8" Drill pipe KO-110SS 9.5#
115.30	115.30	0.00	0.02	1.07	1894.06	2133.50	7239.50	29.47	16.09	2-7/8" Drill pipe KO-110SS 9.5#
124.90	124.90	0.00	0.02	1.07	1885.85	2127.86	7239.50	29.39	16.09	2-7/8" Drill pipe KO-110SS 9.5#
134.50	134.50	0.00	0.02	1.07	1877.63	2122.23	7239.50	29.31	16.09	2-7/8" Drill pipe KO-110SS 9.5#
144.10	144.10	0.00	0.02	1.07	1869.42	2116.60	7239.50	29.24	16.09	2-7/8" Drill pipe KO-110SS 9.5#
153.70	153.70	0.00	0.02	1.07	1861.21	2110.98	7239.50	29.16	16.09	2-7/8" Drill pipe KO-110SS 9.5#
163.30	163.30	0.00	0.02	1.07	1852.99	2105.37	7239.50	29.08	16.09	2-7/8" Drill pipe KO-110SS 9.5#
172.90	172.90	0.00	0.02	1.07	1844.78	2099.76	7239.50	29.00	16.09	2-7/8" Drill pipe KO-110SS 9.5#
182.50	182.50	0.00	0.02	1.07	1836.56	2094.15	7239.50	28.93	16.09	2-7/8" Drill pipe KO-110SS 9.5#
192.10	192.10	0.00	0.02	1.07	1828.35	2088.55	7239.50	28.85	16.09	2-7/8" Drill pipe KO-110SS 9.5#
201.70	201.70	0.00	0.02	1.07	1820.14	2082.96	7239.50	28.77	16.09	2-7/8" Drill pipe KO-110SS 9.5#
211.30	211.30	0.11	0.25	11.43	1822.28	2085.25	7239.50	28.80	16.09	2-7/8" Drill pipe KO-110SS 9.5#
220.90	220.89	0.10	0.10	4.57	1807.21	2073.83	7239.50	28.65	16.09	2-7/8" Drill pipe KO-110SS 9.5#
230.50	230.49	0.10	0.04	1.49	1795.92	2065.72	7239.50	28.53	16.09	2-7/8" Drill pipe KO-110SS 9.5#
240.10	240.09	0.11	0.36	14.22	1800.44	2069.74	7239.50	28.59	16.09	2-7/8" Drill pipe KO-110SS 9.5#
249.70	249.69	0.21	0.36	17.05	1795.06	2065.48	7239.50	28.53	16.09	2-7/8" Drill pipe KO-110SS 9.5#
259.30	259.30	0.38	0.98	53.69	1823.48	2086.80	7239.50	28.83	16.09	2-7/8" Drill pipe KO-110SS 9.5#
268.90	268.89	0.58	0.61	23.59	1785.19	2055.09	7239.50	28.39	16.09	2-7/8" Drill pipe KO-110SS 9.5#
278.50	278.49	0.67	0.30	10.64	1764.03	2038.16	7239.50	28.15	16.09	2-7/8" Drill pipe KO-110SS 9.5#
288.10	288.09	0.65	0.32	15.77	1760.96	2035.74	7239.50	28.12	16.09	2-7/8" Drill pipe KO-110SS 9.5#
297.70	297.70	0.47	1.36	56.76	1793.73	2060.56	7239.50	28.46	16.09	2-7/8" Drill pipe KO-110SS 9.5#
307.30	307.28	0.71	1.81	86.60	1815.37	2074.72	7239.50	28.66	16.09	2-7/8" Drill pipe KO-110SS 9.5#
316.90	316.87	1.07	1.06	40.70	1761.29	2028.89	7239.50	28.03	16.09	2-7/8" Drill pipe KO-110SS 9.5#
326.50	326.49	1.51	1.58	60.82	1773.20	2036.03	7239.50	28.12	16.09	2-7/8" Drill pipe KO-110SS 9.5#
336.10	336.09	1.82	0.64	16.58	1720.77	1992.80	7239.50	27.53	16.09	2-7/8" Drill pipe KO-110SS 9.5#
345.70	345.68	1.97	0.37	4.61	1700.60	1976.66	7239.50	27.30	16.09	2-7/8" Drill pipe KO-110SS 9.5#
355.30	355.27	2.05	0.17	7.88	1695.66	1972.74	7239.50	27.25	16.09	2-7/8" Drill pipe KO-110SS 9.5#
364.90	364.86	2.10	0.20	7.53	1687.11	1966.61	7239.50	27.16	16.09	2-7/8" Drill pipe KO-110SS 9.5#
374.50	374.45	2.17	0.29	8.11	1679.48	1961.09	7239.50	27.09	16.09	2-7/8" Drill pipe KO-110SS 9.5#
384.10	384.05	2.22	0.24	16.03	1679.20	1960.89	7239.50	27.09	16.09	2-7/8" Drill pipe KO-110SS 9.5#
393.70	393.65	2.28	0.90	35.27	1690.23	1969.32	7239.50	27.20	16.09	2-7/8" Drill pipe KO-110SS 9.5#
403.30	403.24	2.50	1.67	61.99	1708.75	1981.91	7239.50	27.38	16.09	2-7/8" Drill pipe KO-110SS 9.5#
412.90	412.83	2.94	1.69	56.43	1695.00	1968.14	7239.50	27.19	16.09	2-7/8" Drill pipe KO-110SS 9.5#
422.50	422.42	3.43	1.53	48.02	1678.41	1952.17	7239.50	26.97	16.09	2-7/8" Drill pipe KO-110SS 9.5#
432.10	431.99	3.87	1.30	31.84	1654.05	1930.73	7239.50	26.67	16.09	2-7/8" Drill pipe KO-110SS 9.5#
441.70	441.57	4.30	1.46	36.80	1650.83	1925.94	7239.50	26.60	16.09	2-7/8" Drill pipe KO-110SS 9.5#
451.30	451.14	4.71	0.50	17.77	1623.63	1902.63	7239.50	26.28	16.09	2-7/8" Drill pipe KO-110SS 9.5#
460.90	460.70	4.86	1.09	16.35	1614.02	1894.98	7239.50	26.18	16.09	2-7/8" Drill pipe KO-110SS 9.5#
470.50	470.26	5.21	0.84	4.34	1593.84	1877.97	7239.50	25.94	16.09	2-7/8" Drill pipe KO-110SS 9.5#
480.10	479.82	5.47	0.93	6.18	1587.51	1872.01	7239.50	25.86	16.09	2-7/8" Drill pipe KO-110SS 9.5#
489.70	489.37	5.77	0.93	5.11	1578.27	1863.67	7239.50	25.74	16.09	2-7/8" Drill pipe KO-110SS 9.5#
499.30	498.92	6.23	1.52	31.45	1596.45	1875.99	7239.50	25.91	16.09	2-7/8" Drill pipe KO-110SS 9.5#
508.90	508.46	6.72	1.63	33.67	1590.52	1868.75	7239.50	25.81	16.09	2-7/8" Drill pipe KO-110SS 9.5#
518.50	517.98	7.10	1.13	7.34	1556.05	1839.76	7239.50	25.41	16.09	2-7/8" Drill pipe KO-110SS 9.5#
528.10	527.51	7.49	1.35	22.95	1563.51	1843.62	7239.50	25.47	16.09	2-7/8" Drill pipe KO-110SS 9.5#
537.70	537.00	7.90	1.33	14.21	1546.65	1828.64	7239.50	25.26	16.09	2-7/8" Drill pipe KO-110SS 9.5#
547.30	546.54	8.20	0.81	18.96	1543.28	1823.90	7239.50	25.19	16.09	2-7/8" Drill pipe KO-110SS 9.5#
556.90	556.03	8.33	0.25	45.14	1561.34	1836.64	7239.50	25.37	16.09	2-7/8" Drill pipe KO-110SS 9.5#
566.50	565.52	8.53	0.91	28.50	1536.57	1818.22	7239.50	25.12	16.09	2-7/8" Drill pipe KO-110SS 9.5#
576.10	575.02	8.68	0.30	44.70	1544.65	1823.15	7239.50	25.18	16.09	2-7/8" Drill pipe KO-110SS 9.5#
585.70	584.51	8.77	0.65	55.03	1546.86	1825.09	7239.50	25.21	16.09	2-7/8" Drill pipe KO-110SS 9.5#
595.30	593.99	8.86	0.58	49.49	1533.22	1814.02	7239.50	25.06	16.09	2-7/8" Drill pipe KO-110SS 9.5#
604.90	603.46	8.94	0.25	52.38	1528.00	1809.57	7239.50	25.00	16.09	2-7/8" Drill pipe KO-110SS 9.5#
614.50	612.95	8.99	0.20	55.32	1522.82	1805.90	7239.50	24.95	16.09	2-7/8" Drill pipe KO-110SS 9.5#
624.10	622.43	8.95	0.53	81.06	1540.45	1819.61	7239.50	25.13	16.09	2-7/8" Drill pipe KO-110SS 9.5#
633.70	631.91	8.87	0.59	59.86	1511.15	1796.60	7239.50	24.82	16.09	2-7/8" Drill pipe KO-110SS 9.5#
643.30	641.39	8.92	0.32	52.99	1496.16	1784.67	7239.50	24.65	16.09	2-7/8" Drill pipe KO-110SS 9.5#
652.90	650.88	8.96	0.49	62.58	1497.64	1785.84	7239.50	24.67	16.09	2-7/8" Drill pipe KO-110SS 9.5#
662.50	660.36	9.00	0.43	43.56	1470.51	1764.96	7239.50	24.38	16.09	2-7/8" Drill pipe KO-110SS 9.5#
672.10	669.84	9.10	0.07	58.29	1477.13	1769.90	7239.50	24.45	16.09	2-7/8" Drill pipe KO-110SS 9.5#
681.70	679.32	9.12	0.07	62.43	1473.17	1767.39	7239.50	24.41	16.09	2-7/8" Drill pipe KO-110SS 9.5#
691.30	688.80	9.12	0.40	49.20	1451.82	1751.63	7239.50	24.20	16.09	2-7/8" Drill pipe KO-110SS 9.5#
700.90	698.27	9.21	0.30	65.68	1460.20	1757.88	7239.50	24.28	16.09	2-7/8" Drill pipe KO-110SS 9.5#
710.50	707.74	9.19	0.40	55.72	1442.13	1744.20	7239.50	24.09	16.09	2-7/8" Drill pipe KO-110SS 9.5#
720.10	717.23	9.25	0.19	57.00	1435.31	1738.97	7239.50	24.02	16.09	2-7/8" Drill pipe KO-110SS 9.5#
729.70	726.70	9.29	0.19	57.26	1427.46	1733.41	7239.50	23.94	16.09	2-7/8" Drill pipe KO-110SS 9.5#
739.30	736.16	9.40	0.43	47.86	1409.96	1720.67	7239.50	23.77	16.09	2-7/8" Drill pipe KO-110SS 9.5#
748.90	745.63	9.52	0.39	47.96	1401.96	1714.67	7239.50	23.68	16.09	2-7/8" Drill pipe KO-110SS 9.5#
758.50	755.10	9.61	0.40	53.90	1399.80	1713.13	7239.50	23.66	16.09	2-7/8" Drill pipe KO-110SS 9.5#
768.10	764.56	9.64	0.12	60.62	1398.43	1712.06	7239.50	23.65	16.09	2-7/8" Drill pipe KO-110SS 9.5#
777.70	774.02	9.66	0.05	63.28	1392.99	1708.44	7239.50	23.60	16.09	2-7/8" Drill pipe KO-110SS 9.5#
787.30	783.49	9.60	0.25	74.98	1396.59	1711.49	7239.50	23.64	16.09	2-7/8" Drill pipe KO-110SS 9.5#
796.90	792.95	9.45	0.60	88.97	1402.49	1715.71	7239.50	23.70	16.09	2-7/8" Drill pipe KO-110SS 9.5#
806.50	802.42	9.38	0.20	65.99	1371.41	1691.64	7239.50	23.37	16.09	2-7/8" Drill pipe KO-110SS 9.5#
816.10	811.90	9.18	1.04	104.17	1401.49	1714.14	7239.50	23.68	16.09	2-7/8" Drill pipe KO-110SS 9.5#
825.70	821.38	9.02	0.24	71.16	1360.38	1681.69	7239.50	23.23	16.09	2-7/8" Drill pipe KO-110SS 9.5#
835.30	830.85	9.04	0.32	47.47	1328.58	1658.03	7239.50	22.90	16.09	2-7/8" Drill pipe KO-110SS 9.5#

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Stress Results

MD (m)	TVD (m)	Inc. (deg)	DLS (deg/30m)	Bending Stress (bar)	Axial Stress (bar)	Von Mises Stress (bar)	Yield Stress (bar)	% Yield	Weight Per Length (kg/m)	Component Name
844.90	840.33	9.06	0.23	68.95	1341.95	1668.09	7239.50	23.04	16.09	2-7/8" Drill pipe KO-110SS 9.5#
854.50	849.81	9.03	0.39	64.14	1329.03	1658.44	7239.50	22.91	16.09	2-7/8" Drill pipe KO-110SS 9.5#
864.10	859.31	9.01	0.07	63.00	1319.78	1651.37	7239.50	22.81	16.09	2-7/8" Drill pipe KO-110SS 9.5#
873.70	868.77	9.00	0.13	59.20	1307.87	1642.80	7239.50	22.69	16.09	2-7/8" Drill pipe KO-110SS 9.5#
883.30	878.26	9.02	0.27	56.09	1296.66	1634.84	7239.50	22.58	16.09	2-7/8" Drill pipe KO-110SS 9.5#
892.90	887.73	9.09	0.42	42.10	1274.55	1618.84	7239.50	22.36	16.09	2-7/8" Drill pipe KO-110SS 9.5#
902.50	897.22	9.23	0.70	44.54	1268.89	1614.74	7239.50	22.30	16.09	2-7/8" Drill pipe KO-110SS 9.5#
912.10	906.69	9.40	1.08	52.22	1268.46	1613.77	7239.50	22.29	16.09	2-7/8" Drill pipe KO-110SS 9.5#
921.70	916.16	9.63	1.36	43.76	1251.91	1600.32	7239.50	22.11	16.09	2-7/8" Drill pipe KO-110SS 9.5#
931.30	925.60	9.95	1.10	36.59	1236.65	1587.33	7239.50	21.93	16.09	2-7/8" Drill pipe KO-110SS 9.5#
940.90	935.07	10.27	1.93	53.32	1245.30	1592.20	7239.50	21.99	16.09	2-7/8" Drill pipe KO-110SS 9.5#
950.50	944.49	10.74	1.40	47.68	1231.59	1579.23	7239.50	21.81	16.09	2-7/8" Drill pipe KO-110SS 9.5#
960.10	953.91	11.08	1.80	39.40	1215.25	1565.46	7239.50	21.62	16.09	2-7/8" Drill pipe KO-110SS 9.5#
969.70	963.32	11.58	1.80	41.60	1209.41	1558.54	7239.50	21.53	16.09	2-7/8" Drill pipe KO-110SS 9.5#
979.30	972.72	12.05	2.56	95.48	1255.26	1589.36	7239.50	21.95	16.09	2-7/8" Drill pipe KO-110SS 9.5#
988.90	982.09	12.58	2.13	61.64	1213.41	1554.47	7239.50	21.47	16.09	2-7/8" Drill pipe KO-110SS 9.5#
998.50	991.47	13.08	1.97	59.14	1202.90	1543.56	7239.50	21.32	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1008.10	1000.81	13.59	1.98	53.88	1189.66	1531.00	7239.50	21.15	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1017.70	1010.11	14.14	1.88	36.92	1164.73	1510.05	7239.50	20.86	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1027.30	1019.43	14.75	2.02	25.00	1144.86	1493.10	7239.50	20.62	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1036.90	1028.69	15.36	1.93	21.23	1133.16	1481.84	7239.50	20.47	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1046.50	1037.92	15.97	2.03	38.28	1142.31	1485.78	7239.50	20.52	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1056.10	1047.14	16.56	1.79	29.91	1126.06	1471.28	7239.50	20.32	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1065.70	1056.33	17.16	1.93	28.52	1116.80	1462.34	7239.50	20.20	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1075.30	1065.48	17.61	0.99	72.54	1152.99	1486.14	7239.50	20.53	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1084.90	1074.62	17.90	0.86	81.03	1153.66	1485.97	7239.50	20.53	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1094.50	1083.75	18.13	0.65	93.60	1158.41	1488.06	7239.50	20.57	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1104.10	1092.86	18.34	0.83	89.41	1146.42	1480.13	7239.50	20.45	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1113.70	1101.97	18.61	1.00	78.65	1127.87	1466.08	7239.50	20.25	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1123.30	1111.05	18.97	1.60	76.01	1117.45	1457.84	7239.50	20.14	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1132.90	1120.11	19.23	0.42	145.69	1179.37	1501.91	7239.50	20.75	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1142.50	1129.20	19.17	0.52	104.00	1129.93	1464.39	7239.50	20.23	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1152.10	1138.24	19.31	0.33	119.94	1138.11	1470.66	7239.50	20.31	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1161.70	1147.30	19.39	0.48	108.17	1118.59	1456.23	7239.50	20.12	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1171.30	1156.34	19.51	0.29	129.27	1131.95	1466.31	7239.50	20.25	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1180.90	1165.39	19.53	0.75	96.82	1091.76	1436.49	7239.50	19.84	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1190.50	1174.43	19.75	0.19	125.01	1112.21	1451.37	7239.50	20.05	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1200.10	1183.46	19.79	0.68	104.46	1083.93	1430.65	7239.50	19.76	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1209.70	1192.49	19.99	0.68	105.69	1077.44	1425.78	7239.50	19.69	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1219.30	1201.52	19.95	0.27	137.17	1101.20	1443.11	7239.50	19.93	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1228.90	1210.53	20.07	0.51	115.52	1071.84	1421.16	7239.50	19.63	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1238.50	1219.55	20.21	0.79	116.71	1065.31	1416.39	7239.50	19.56	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1248.10	1228.55	20.38	0.91	113.21	1054.11	1407.67	7239.50	19.44	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1257.70	1237.53	20.54	0.71	117.53	1050.73	1404.53	7239.50	19.40	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1267.30	1246.52	20.33	1.02	178.09	1103.61	1443.17	7239.50	19.93	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1276.90	1255.54	19.78	1.99	218.89	1136.72	1466.47	7239.50	20.26	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1286.50	1264.57	19.53	0.30	138.41	1048.52	1397.50	7239.50	19.30	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1296.10	1273.63	19.55	0.50	122.53	1024.91	1379.75	7239.50	19.06	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1305.70	1282.66	19.67	0.52	107.01	1001.65	1362.60	7239.50	18.82	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1315.30	1291.69	19.85	0.65	104.60	991.51	1355.56	7239.50	18.72	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1324.90	1300.71	19.96	0.71	128.60	1007.79	1367.33	7239.50	18.89	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1334.50	1309.74	20.05	0.40	114.68	986.15	1351.02	7239.50	18.66	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1344.10	1318.75	20.16	0.39	119.94	983.69	1349.58	7239.50	18.64	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1353.70	1327.76	20.23	0.13	129.20	985.25	1350.76	7239.50	18.66	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1363.30	1336.76	20.23	0.59	144.56	992.90	1356.27	7239.50	18.73	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1372.90	1345.77	20.23	0.48	111.76	952.39	1326.31	7239.50	18.32	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1382.50	1354.76	20.37	0.38	118.00	950.93	1325.66	7239.50	18.31	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1392.10	1363.76	20.48	0.78	124.09	949.32	1324.79	7239.50	18.30	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1401.70	1372.75	20.58	0.32	127.91	945.45	1321.42	7239.50	18.25	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1411.30	1381.73	20.63	0.22	131.97	941.83	1318.74	7239.50	18.22	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1420.90	1390.71	20.69	0.91	99.87	902.04	1290.39	7239.50	17.82	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1430.50	1399.67	20.95	0.74	127.88	922.37	1304.41	7239.50	18.02	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1440.10	1408.63	21.04	0.39	120.99	907.81	1293.51	7239.50	17.87	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1449.70	1417.58	21.17	0.39	121.77	900.93	1288.96	7239.50	17.80	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1459.30	1426.55	20.91	1.24	179.65	951.15	1325.24	7239.50	18.31	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1468.90	1435.53	20.57	1.99	197.64	961.47	1331.01	7239.50	18.39	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1478.50	1444.52	20.34	1.37	171.67	927.83	1303.84	7239.50	18.01	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1488.10	1453.52	20.30	0.34	135.78	884.25	1270.78	7239.50	17.55	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1497.70	1462.51	20.26	0.44	141.27	882.04	1268.81	7239.50	17.53	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1507.30	1471.52	20.35	0.98	123.17	856.23	1250.00	7239.50	17.27	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1516.90	1480.52	20.47	0.42	117.55	842.92	1239.83	7239.50	17.13	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1526.50	1489.50	20.57	0.49	124.57	842.25	1239.51	7239.50	17.12	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1536.10	1498.48	20.78	0.47	121.50	831.49	1231.77	7239.50	17.01	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1545.70	1507.45	20.89	0.47	122.22	824.53	1226.88	7239.50	16.95	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1555.30	1516.42	20.86	0.45	156.52	851.16	1245.50	7239.50	17.20	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1564.90	1525.39	20.73	0.45	155.65	842.62	1238.62	7239.50	17.11	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1574.50	1534.37	20.59	0.45	154.78	834.07	1231.75	7239.50	17.01	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1584.10	1543.36	20.63	0.54	130.74	802.35	1208.74	7239.50	16.70	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1593.70	1552.34	20.68	0.54	131.06	794.98	1203.20	7239.50	16.62	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1603.30	1561.32	20.70	0.05	138.29	794.54	1202.44	7239.50	16.61	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1612.90	1570.30	20.69	0.05	138.20	786.76	1196.71	7239.50	16.53	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1622.50	1579.29	20.67	0.05	138.10	778.98	1190.98	7239.50	16.45	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1632.10	1588.27	20.64	0.13	141.13	774.33	1187.40	7239.50	16.40	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1641.70	1597.25	20.60	0.13	140.88	766.40	1181.48	7239.50	16.32	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1651.30	1606.24	20.57	0.02	134.77	752.61	1171.56	7239.50	16.18	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1660.90	1615.23	20.57	0.02	134.80	744.94	1166.02	7239.50	16.11	16.09	2-7/8" Drill pipe KO-110SS 9.5#

Slider - Advanced Torque & Drag Analysis



Stress Results

MD (m)	TVD (m)	Inc. (deg)	DLS (deg/30m)	Bending Stress (bar)	Axial Stress (bar)	Von Mises Stress (bar)	Yield Stress (bar)	% Yield	Weight Per Length (kg/m)	Component Name
1670.50	1624.22	20.58	0.02	134.82	737.28	1160.50	7239.50	16.03	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1680.10	1633.20	20.60	0.15	129.10	723.88	1151.09	7239.50	15.90	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1689.70	1642.19	20.65	0.15	129.39	716.48	1145.94	7239.50	15.83	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1699.30	1651.17	20.70	0.15	129.68	709.09	1140.80	7239.50	15.76	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1708.90	1660.15	20.73	0.18	132.18	703.90	1137.14	7239.50	15.71	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1718.50	1669.13	20.76	0.18	132.38	696.42	1131.84	7239.50	15.63	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1728.10	1678.10	20.78	0.02	136.10	692.46	1128.91	7239.50	15.59	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1737.70	1687.08	20.79	0.02	136.13	684.81	1123.44	7239.50	15.52	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1747.30	1696.05	20.79	0.02	136.15	677.16	1117.97	7239.50	15.44	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1756.90	1705.03	20.79	0.01	136.69	670.02	1112.85	7239.50	15.37	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1766.50	1714.00	20.79	0.01	136.69	662.35	1107.37	7239.50	15.30	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1776.10	1722.98	20.79	0.11	141.48	659.46	1105.05	7239.50	15.26	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1785.70	1731.95	20.75	0.11	141.26	651.57	1099.30	7239.50	15.18	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1795.30	1740.93	20.72	0.11	141.05	643.67	1093.56	7239.50	15.11	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1804.90	1749.91	20.72	0.12	131.44	626.39	1081.70	7239.50	14.94	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1814.50	1758.89	20.75	0.12	131.66	618.93	1076.53	7239.50	14.87	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1824.10	1767.87	20.79	0.12	131.88	611.47	1071.38	7239.50	14.80	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1833.70	1776.84	20.79	0.08	136.74	608.65	1069.22	7239.50	14.77	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1843.30	1785.82	20.79	0.08	136.74	600.97	1063.80	7239.50	14.69	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1852.90	1794.79	20.82	0.30	124.09	580.65	1050.31	7239.50	14.51	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1862.50	1803.76	20.91	0.30	124.67	573.55	1045.64	7239.50	14.44	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1872.10	1812.73	21.00	0.30	125.24	566.46	1040.97	7239.50	14.38	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1881.70	1821.69	21.02	0.08	139.27	572.82	1044.81	7239.50	14.43	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1891.30	1830.65	21.02	0.08	139.23	565.11	1039.38	7239.50	14.36	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1900.90	1839.61	21.01	0.16	145.01	563.22	1037.64	7239.50	14.33	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1910.50	1848.57	20.96	0.16	144.69	555.25	1031.90	7239.50	14.25	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1920.10	1857.54	20.91	0.16	144.38	547.27	1026.17	7239.50	14.17	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1929.70	1866.51	20.84	0.24	147.72	542.94	1022.76	7239.50	14.13	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1939.30	1875.48	20.77	0.24	147.24	534.79	1016.85	7239.50	14.05	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1948.90	1884.46	20.69	0.24	146.76	526.63	1010.96	7239.50	13.96	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1958.50	1893.45	20.60	0.33	148.51	520.70	1006.47	7239.50	13.90	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1968.10	1902.44	20.51	0.33	147.93	512.44	1000.47	7239.50	13.82	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1977.70	1911.43	20.48	1.48	129.82	486.63	983.76	7239.50	13.59	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1987.30	1920.42	20.62	1.48	130.82	479.95	978.39	7239.50	13.51	16.09	2-7/8" Drill pipe KO-110SS 9.5#
1996.90	1929.40	20.78	1.48	131.89	473.33	973.08	7239.50	13.44	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2006.50	1938.37	20.98	2.41	145.84	473.61	975.58	7239.50	13.48	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2016.10	1947.33	21.21	2.41	147.65	473.76	969.88	7239.50	13.40	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2025.70	1956.27	21.46	1.53	134.06	452.52	954.88	7239.50	13.19	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2035.30	1965.20	21.62	1.53	135.14	445.96	949.66	7239.50	13.12	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2044.90	1974.12	21.79	1.53	136.29	439.48	944.48	7239.50	13.05	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2054.50	1983.03	21.95	1.59	140.30	435.87	941.01	7239.50	13.00	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2064.10	1991.93	22.09	1.59	141.31	429.26	935.71	7239.50	12.93	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2073.70	2000.82	22.25	1.59	142.38	422.73	930.47	7239.50	12.85	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2083.30	2009.70	22.29	0.80	146.65	419.40	927.12	7239.50	12.81	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2092.90	2018.58	22.32	0.80	146.82	411.98	921.80	7239.50	12.73	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2102.50	2027.46	22.35	0.14	140.03	397.59	912.42	7239.50	12.60	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2112.10	2036.34	22.40	0.14	140.32	390.29	907.56	7239.50	12.54	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2121.70	2045.21	22.44	0.14	140.60	382.98	902.71	7239.50	12.47	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2131.30	2054.08	22.50	0.28	139.10	373.89	896.85	7239.50	12.39	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2140.90	2062.95	22.56	0.28	139.48	366.68	892.10	7239.50	12.32	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2150.50	2071.81	22.62	0.35	140.76	360.38	887.87	7239.50	12.26	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2160.10	2080.67	22.68	0.35	141.12	353.16	883.10	7239.50	12.20	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2169.70	2089.53	22.74	0.35	141.48	345.94	878.33	7239.50	12.13	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2179.30	2098.38	22.77	0.08	149.61	346.50	877.93	7239.50	12.13	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2188.90	2107.23	22.76	0.08	149.59	338.91	872.83	7239.50	12.06	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2198.50	2116.09	22.76	0.08	149.56	331.32	867.74	7239.50	11.99	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2208.10	2124.94	22.80	0.14	142.80	316.98	858.94	7239.50	11.86	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2217.70	2133.79	22.84	0.14	143.09	309.70	854.21	7239.50	11.80	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2227.30	2142.63	22.89	0.16	145.61	304.65	850.70	7239.50	11.75	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2236.90	2151.47	22.92	0.16	145.80	297.28	845.88	7239.50	11.68	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2246.50	2160.32	22.95	0.16	145.99	289.91	841.08	7239.50	11.62	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2256.10	2169.15	22.99	0.14	144.51	280.87	835.40	7239.50	11.54	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2265.70	2177.99	23.03	0.14	144.77	273.57	830.71	7239.50	11.47	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2275.30	2186.82	23.07	0.20	144.06	265.30	825.51	7239.50	11.40	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2284.90	2195.66	23.12	0.20	144.37	258.05	820.88	7239.50	11.34	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2294.50	2204.48	23.17	0.20	144.67	250.81	816.27	7239.50	11.28	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2304.10	2213.31	23.22	0.15	145.41	244.00	811.88	7239.50	11.21	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2313.70	2222.13	23.27	0.15	145.69	236.74	807.28	7239.50	11.15	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2323.30	2230.95	23.31	0.15	145.98	229.48	802.69	7239.50	11.09	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2332.90	2239.76	23.42	0.41	136.68	212.64	793.35	7239.50	10.96	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2342.50	2248.56	23.54	0.41	137.42	205.84	776.02	7239.50	10.72	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2352.10	2257.36	23.69	0.96	116.28	177.18	759.73	7239.50	10.49	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2361.70	2266.14	23.98	0.96	118.04	171.41	756.38	7239.50	10.45	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2371.30	2274.90	24.26	0.96	119.79	165.66	753.03	7239.50	10.40	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2380.90	2283.65	24.52	0.93	127.08	165.47	752.62	7239.50	10.40	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2390.50	2292.37	24.77	0.93	128.62	159.53	749.03	7239.50	10.35	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2400.10	2301.08	25.02	0.64	138.37	161.83	749.82	7239.50	10.36	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2409.70	2309.77	25.20	0.64	139.47	155.49	745.89	7239.50	10.30	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2419.30	2318.45	25.38	0.64	140.57	149.16	741.97	7239.50	10.25	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2428.90	2327.12	25.59	0.84	134.28	135.45	734.21	7239.50	10.14	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2438.50	2335.77	25.82	0.84	135.73	141.96	737.09	7239.50	10.18	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2448.10	2344.40	26.06	0.84	137.18	150.80	741.28	7239.50	10.24	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2457.70	2353.02	26.21	1.14	158.59	179.59	756.71	7239.50	10.45	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2467.30	2361.63	26.35	1.14	159.43	187.80	760.64	7239.50	10.51	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2476.90	2370.22	26.50	0.74	141.22	176.94	753.65	7239.50	10.41	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2486.50	2378.81	26.73	0.74	142.56	185.63	758.18	7239.50	10.47	16.09	2-7/8" Drill pipe KO-110SS 9.5#

Slider - Advanced Torque & Drag Analysis



Stress Results

MD (m)	TVD (m)	Inc. (deg)	DLS (deg/30m)	Bending Stress (bar)	Axial Stress (bar)	Von Mises Stress (bar)	Yield Stress (bar)	% Yield	Weight Per Length (kg/m)	Component Name
2496.10	2387.37	26.95	0.74	143.90	194.30	762.79	7239.50	10.54	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2505.70	2395.93	26.99	0.28	187.07	244.80	793.28	7239.50	10.96	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2515.30	2404.48	26.90	0.28	186.54	251.58	796.82	7239.50	11.01	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2524.90	2413.05	26.81	0.28	186.02	258.38	800.46	7239.50	11.06	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2534.50	2421.62	26.76	0.14	179.84	259.53	800.49	7239.50	11.06	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2544.10	2430.19	26.72	0.14	179.57	266.58	804.47	7239.50	11.11	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2553.70	2438.77	26.61	1.24	205.54	299.89	826.25	7239.50	11.41	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2563.30	2447.36	26.42	1.24	204.31	306.00	829.69	7239.50	11.46	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2572.90	2455.96	26.22	1.24	203.10	312.14	833.23	7239.50	11.51	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2582.50	2464.58	26.24	0.79	162.50	278.90	809.68	7239.50	11.18	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2592.10	2473.18	26.32	0.79	162.99	286.76	814.62	7239.50	11.25	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2601.70	2481.79	26.42	1.41	154.74	285.86	813.60	7239.50	11.24	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2611.30	2490.38	26.62	1.41	155.95	294.43	819.18	7239.50	11.32	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2620.90	2498.95	26.81	1.41	157.20	303.02	824.86	7239.50	11.39	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2630.50	2507.51	26.93	0.34	167.45	320.60	837.02	7239.50	11.56	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2640.10	2516.07	26.98	0.34	167.78	328.24	842.19	7239.50	11.63	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2649.70	2524.62	27.04	0.34	168.10	335.88	847.43	7239.50	11.71	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2659.30	2533.17	27.12	0.26	164.31	339.41	849.72	7239.50	11.74	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2668.90	2541.71	27.20	0.26	164.80	347.20	855.20	7239.50	11.81	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2678.50	2550.25	27.32	0.63	149.00	338.70	848.71	7239.50	11.72	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2688.10	2558.77	27.52	0.63	150.19	347.19	854.81	7239.50	11.81	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2697.70	2567.27	27.72	0.63	151.38	355.66	860.97	7239.50	11.89	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2707.30	2575.76	28.06	2.19	149.19	360.73	864.63	7239.50	11.94	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2716.90	2584.22	28.46	2.19	151.72	370.51	871.92	7239.50	12.04	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2726.50	2592.64	28.79	0.32	195.39	421.40	911.15	7239.50	12.59	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2736.10	2601.06	28.72	0.32	194.99	428.19	916.29	7239.50	12.66	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2745.70	2609.48	28.65	0.32	194.58	434.98	921.51	7239.50	12.73	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2755.30	2617.91	28.56	1.00	203.06	450.67	933.88	7239.50	12.90	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2764.90	2626.34	28.46	1.00	202.43	457.25	939.05	7239.50	12.97	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2774.50	2634.79	28.36	1.00	201.81	463.85	944.30	7239.50	13.04	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2784.10	2643.23	28.37	0.15	180.41	449.67	932.77	7239.50	12.88	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2793.70	2651.68	28.39	0.15	180.52	457.01	938.67	7239.50	12.97	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2803.30	2660.13	28.41	0.19	177.46	461.17	942.03	7239.50	13.01	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2812.90	2668.57	28.46	0.19	177.71	468.64	948.13	7239.50	13.10	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2822.50	2677.01	28.50	0.19	177.96	476.11	954.33	7239.50	13.18	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2832.10	2685.44	28.56	0.36	175.48	480.84	958.32	7239.50	13.24	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2841.70	2693.87	28.62	0.36	175.87	488.44	964.72	7239.50	13.33	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2851.30	2702.29	28.68	0.20	181.81	501.58	975.79	7239.50	13.48	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2860.90	2710.71	28.71	0.20	181.94	508.92	980.09	7239.50	13.57	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2870.50	2719.13	28.73	0.20	182.08	516.26	988.43	7239.50	13.65	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2880.10	2727.55	28.78	0.22	175.75	517.13	989.35	7239.50	13.67	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2889.70	2735.96	28.85	0.22	176.16	524.73	995.99	7239.50	13.76	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2899.30	2744.37	28.91	0.22	176.57	532.33	1002.66	7239.50	13.85	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2908.90	2752.77	28.90	0.07	188.81	551.76	1019.52	7239.50	14.08	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2918.50	2761.18	28.88	0.07	188.70	558.83	1025.88	7239.50	14.17	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2928.10	2769.58	28.89	0.24	175.38	552.70	1020.88	7239.50	14.10	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2937.70	2777.99	28.94	0.39	190.18	574.69	1040.19	7239.50	14.37	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2947.30	2786.39	28.92	0.39	190.05	581.74	1046.66	7239.50	14.46	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2956.90	2794.79	28.90	0.39	189.92	588.80	1053.17	7239.50	14.55	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2966.50	2803.19	28.93	0.15	182.63	588.69	1053.44	7239.50	14.55	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2976.10	2811.60	28.95	0.15	182.78	596.03	1060.24	7239.50	14.65	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2985.70	2819.99	28.98	0.15	182.94	603.37	1067.08	7239.50	14.74	16.09	2-7/8" Drill pipe KO-110SS 9.5#
2995.30	2828.39	29.00	0.00	186.70	614.31	1077.14	7239.50	14.88	16.09	2-7/8" Drill pipe KO-110SS 9.5#
3004.90	2836.79	28.86	5.32	411.44	846.23	1287.52	7239.50	17.78	16.09	2-7/8" Drill pipe KO-110SS 9.5#
3014.50	2845.26	27.36	5.32	401.15	843.13	1285.62	7239.50	17.76	16.09	2-7/8" Drill pipe KO-110SS 9.5#
3024.10	2853.84	26.04	40.63	1643.16	2092.44	2486.44	7239.50	34.35	16.09	2-7/8" Drill pipe KO-110SS 9.5#
3033.70	2861.92	38.89	39.77	1532.32	1988.95	2384.40	7239.50	32.94	16.09	2-7/8" Drill pipe KO-110SS 9.5#
3043.30	2868.66	51.62	39.77	1472.23	1935.22	2330.74	7239.50	32.19	16.09	2-7/8" Drill pipe KO-110SS 9.5#
3052.90	2873.74	64.35	39.77	1426.97	1895.03	2289.96	7239.50	31.63	16.09	2-7/8" Drill pipe KO-110SS 9.5#
3062.50	2876.90	77.07	39.77	1398.77	1870.35	2264.04	7239.50	31.27	16.09	2-7/8" Drill pipe KO-110SS 9.5#
3072.10	2878.00	89.80	39.77	1389.02	1862.39	2254.25	7239.50	31.14	16.09	2-7/8" Drill pipe KO-110SS 9.5#
3081.70	2878.00	90.00	0.00	385.10	858.46	1278.50	7239.50	17.66	16.09	2-7/8" Drill pipe KO-110SS 9.5#
3091.30	2878.00	90.00	0.00	385.10	858.45	1277.94	7239.50	17.65	16.09	2-7/8" Drill pipe KO-110SS 9.5#
3100.90	2878.00	90.00	0.00	385.10	858.45	1277.39	7239.50	17.64	16.09	2-7/8" Drill pipe KO-110SS 9.5#
3110.50	2878.00	90.00	0.00	385.10	858.44	1276.85	7239.50	17.64	16.09	2-7/8" Drill pipe KO-110SS 9.5#
3120.10	2878.00	90.00	0.00	385.10	858.43	1276.33	7239.50	17.63	16.09	2-7/8" Drill pipe KO-110SS 9.5#
3129.70	2878.00	90.00	0.00	385.10	858.42	1275.82	7239.50	17.62	16.09	2-7/8" Drill pipe KO-110SS 9.5#
3139.30	2878.00	90.00	0.00	385.10	858.41	1275.32	7239.50	17.62	16.09	2-7/8" Drill pipe KO-110SS 9.5#
3148.90	2878.00	90.00	0.00	385.10	858.40	1274.84	7239.50	17.61	16.09	2-7/8" Drill pipe KO-110SS 9.5#
3158.50	2878.00	90.00	0.00	293.34	711.76	1142.59	5171.07	22.10	20.00	MWD/I WD tool
3168.50	2878.00	90.00	0.00	39.40	459.44	911.08	5171.07	17.62	20.00	Mud motor
3171.80	2878.00	90.00	0.00	0.06	389.71	820.89	5171.07	15.87	25.00	PDC bit