

Date Start :Aug/15/2018 Job No. :2018-119-A90
 MWD Co :True Performance Drilling Co. :Akita Drilling INC
 Customer :XTO Energy INC Well Name :Remuda North 31 113H
 Location :Remuda North 31 State 113H API/UWI :30-015-44413
 Declination :6.79 MagField :.478
 Dip Angle :60.03 Vert Sec Dir (deg):359.01
 KB :3245.00 GL :3215.00
 DF :0

Depth	Inc	TAzm	TVD	N/S	E/W	VS	DLS
0	0	0	0	0	0	0	0
99	0.6	178	99	-0.52	0.02	-0.52	0.61
189	0.4	93	189	-1.01	0.35	-1.01	0.77
257	0.4	181	256.99	-1.26	0.58	-1.27	0.82
347	0.4	34	346.99	-1.31	0.75	-1.32	0.85
385	0.5	50	384.99	-1.09	0.95	-1.11	0.42
487	0.7	94.2	486.99	-0.85	1.91	-0.88	0.48
578	0.8	106.3	577.98	-1.07	3.08	-1.12	0.21
669	1.1	92.9	668.97	-1.29	4.56	-1.37	0.41
767	1.1	89.9	766.95	-1.34	6.44	-1.45	0.06
862	1.4	89.9	861.93	-1.34	8.51	-1.48	0.32
956	1	77.4	955.91	-1.15	10.46	-1.34	0.51
1051	0.7	222.5	1050.9	-1.4	10.88	-1.59	1.71
1146	0.6	201	1145.9	-2.29	10.31	-2.47	0.28
1241	0.4	134.6	1240.89	-2.99	10.37	-3.17	0.6
1335	0.6	122.4	1334.89	-3.49	11.02	-3.68	0.24
1430	0.6	85.4	1429.88	-3.71	11.93	-3.92	0.4
1525	0.8	78.5	1524.88	-3.54	13.08	-3.77	0.23
1619	0.9	72.4	1618.87	-3.19	14.42	-3.43	0.14
1715	1.1	64.6	1714.85	-2.56	15.98	-2.84	0.25
1810	1	10.3	1809.84	-1.36	16.95	-1.65	1.01
1904	1.2	16.5	1903.82	0.4	17.37	0.09	0.25
2000	1	1.7	1999.8	2.2	17.68	1.89	0.36
2095	0.8	240.2	2094.8	2.7	17.13	2.4	1.66
2190	0.7	268.5	2189.79	2.35	15.98	2.07	0.4
2285	0.5	261.7	2284.78	2.28	14.99	2.02	0.22
2380	0.5	275.4	2379.78	2.25	14.16	2.01	0.13
2475	0.5	291.7	2474.78	2.45	13.37	2.22	0.15
2570	0.3	271.9	2569.77	2.61	12.73	2.39	0.25
2665	0.1	31.6	2664.77	2.69	12.53	2.47	0.38
2760	0.2	24	2759.77	2.91	12.64	2.69	0.11
2855	1.1	124.2	2854.77	2.55	13.46	2.32	1.21
2950	1.9	136.7	2949.74	0.89	15.29	0.63	0.9
3045	1.4	149.5	3044.7	-1.26	16.96	-1.55	0.65
3140	2.7	158.5	3139.63	-4.34	18.37	-4.66	1.41
3235	2.7	177.3	3234.53	-8.66	19.3	-8.99	0.93
3330	2.2	186.4	3329.44	-12.7	19.2	-13.03	0.67
3424	1.5	216.9	3423.4	-15.48	18.26	-15.79	1.26

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3519	0.7	246.2	3518.38	-16.71	16.98	-17	1
3614	0.9	294.4	3613.37	-16.63	15.77	-16.9	0.71
3709	1.4	317.6	3708.35	-15.47	14.31	-15.71	0.71
3803	1	342.4	3802.33	-13.84	13.29	-14.07	0.69
3898	1	343.8	3897.32	-12.25	12.81	-12.47	0.03
3993	0.9	350.4	3992.3	-10.72	12.45	-10.93	0.16
4088	0.9	339.4	4087.29	-9.29	12.06	-9.49	0.18
4183	1.1	347.5	4182.28	-7.7	11.6	-7.9	0.26
4278	1	342.4	4277.26	-6.02	11.16	-6.21	0.14
4373	1	341.5	4372.25	-4.44	10.64	-4.62	0.02
4468	0.7	333.7	4467.24	-3.14	10.12	-3.31	0.34
4562	0.8	340.4	4561.23	-2	9.65	-2.17	0.14
4657	0.9	329.5	4656.22	-0.73	9.05	-0.89	0.2
4752	0.8	340.8	4751.21	0.53	8.45	0.39	0.2
4847	0.7	340.6	4846.2	1.71	8.04	1.57	0.11
4942	0.9	337.8	4941.19	2.95	7.56	2.82	0.21
5037	0.4	67.6	5036.18	3.76	7.59	3.63	1.04
5132	0.7	112.1	5131.18	3.67	8.43	3.53	0.53
5227	0.9	119.5	5226.17	3.09	9.62	2.92	0.24
5322	1	161.5	5321.16	1.93	10.53	1.75	0.72
5417	1.2	183.3	5416.14	0.15	10.74	-0.03	0.48
5511	1	234.8	5510.13	-1.3	10.01	-1.48	1.03
5606	1.1	230.2	5605.11	-2.36	8.63	-2.51	0.14
5701	1.1	239	5700.09	-3.42	7.15	-3.54	0.18
5796	0.9	228.6	5795.08	-4.38	5.81	-4.48	0.28
5890	1	230.4	5889.07	-5.39	4.62	-5.47	0.11
5985	0.9	229.1	5984.05	-6.41	3.42	-6.47	0.11
6080	0.8	224.2	6079.04	-7.37	2.39	-7.41	0.13
6175	0.7	217.2	6174.03	-8.31	1.58	-8.34	0.14
6270	0.9	229.3	6269.03	-9.26	0.67	-9.27	0.27
6364	1.1	270.5	6363.01	-9.73	-0.8	-9.72	0.77
6459	1.2	311.2	6457.99	-9.07	-2.46	-9.03	0.85
6554	1.1	350.3	6552.98	-7.52	-3.36	-7.46	0.82
6649	1	355.2	6647.96	-5.79	-3.58	-5.73	0.14
6744	0.8	2.2	6742.95	-4.3	-3.63	-4.24	0.24
6838	0.8	349	6836.94	-3	-3.73	-2.94	0.2
6933	0.6	62	6931.93	-2.12	-3.41	-2.06	0.89
7028	0.9	70.3	7026.93	-1.63	-2.27	-1.59	0.34

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7123	0.9	69.5	7121.91	-1.12	-0.87	-1.1	0.01
7218	0.7	96.8	7216.91	-0.93	0.4	-0.93	0.45
7313	0.7	92.4	7311.9	-1.02	1.56	-1.05	0.06
7407	0.4	177.1	7405.9	-1.37	2.15	-1.41	0.82
7503	0.6	289.6	7501.89	-1.54	1.69	-1.57	0.87
7597	1.1	314.4	7595.88	-0.74	0.59	-0.75	0.65
7692	1.2	281.4	7690.86	0.09	-1.04	0.11	0.69
7787	1.1	290.5	7785.85	0.61	-2.87	0.66	0.22
7882	0.8	268.9	7880.83	0.92	-4.39	0.99	0.49
7977	1.2	279.8	7975.82	1.07	-6.03	1.18	0.46
8072	1.4	317.9	8070.8	2.1	-7.79	2.24	0.92
8166	1.4	302.3	8164.77	3.57	-9.53	3.73	0.4
8261	0.2	31.6	8259.76	4.33	-10.42	4.51	1.49
8356	0.3	155	8354.76	4.25	-10.23	4.42	0.47
8451	0.4	170.1	8449.76	3.69	-10.07	3.87	0.14
8547	0.7	221.1	8545.75	2.92	-10.4	3.1	0.57
8642	0.8	231.3	8640.74	2.07	-11.3	2.26	0.18
8737	1	0.1	8735.74	2.48	-11.81	2.69	1.71
8832	1.1	339.4	8830.72	4.17	-12.13	4.38	0.41
8926	0.7	298.9	8924.71	5.29	-12.95	5.51	0.77
9021	0.5	317.6	9019.71	5.88	-13.74	6.11	0.29
9116	0.3	313	9114.7	6.35	-14.2	6.6	0.21
9211	0.2	322.7	9209.7	6.65	-14.48	6.9	0.11
9306	0.7	280	9304.7	6.89	-15.16	7.15	0.6
9400	0.8	293.1	9398.69	7.24	-16.32	7.52	0.21
9459	1	295.3	9457.68	7.62	-17.17	7.92	0.34
9514	1.3	288.4	9512.67	8.03	-18.19	8.34	0.6
9609	1.1	35.9	9607.66	9.11	-18.68	9.43	2.04
9704	2.4	39.6	9702.62	11.38	-16.88	11.67	1.37
9799	2.6	22.9	9797.53	14.89	-14.77	15.15	0.79
9894	2.5	10.5	9892.43	18.92	-13.56	19.15	0.59
9947	2.5	15.9	9945.38	21.16	-13.03	21.39	0.44
9994	2.2	12	9992.34	23.03	-12.56	23.25	0.72
10026	2	16.6	10024.32	24.17	-12.27	24.38	0.82
10057	3.9	11.6	10055.28	25.72	-11.91	25.92	6.18
10089	6.4	4.9	10087.15	28.56	-11.54	28.76	8.02
10121	9.1	1.6	10118.85	32.87	-11.31	33.06	8.55
10152	11.7	357.9	10149.34	38.46	-11.36	38.65	8.66

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10184	14.1	358.2	10180.53	45.6	-11.6	45.8	7.5
10215	15.2	357.2	10210.52	53.44	-11.92	53.63	3.64
10247	17.3	355.2	10241.24	62.37	-12.52	62.58	6.79
10279	19.7	355.2	10271.59	72.49	-13.37	72.71	7.5
10310	20.2	355.5	10300.73	83.03	-14.23	83.26	1.65
10342	22.1	353.6	10330.57	94.52	-15.33	94.77	6.31
10373	24.2	352.5	10359.07	106.62	-16.81	106.89	6.92
10405	26.5	352.3	10387.99	120.19	-18.63	120.5	7.19
10436	30	352.1	10415.29	134.73	-20.62	135.07	11.29
10468	34	352.8	10442.42	151.54	-22.84	151.91	12.55
10500	38.3	351.5	10468.26	170.23	-25.43	170.64	13.65
10531	42.9	350.4	10491.79	190.15	-28.61	190.61	15.02
10563	47.4	350.4	10514.35	212.51	-32.39	213.04	14.06
10594	51.6	350.5	10534.48	235.75	-36.3	236.34	13.55
10626	55.8	350.4	10553.42	261.18	-40.58	261.84	13.13
10658	58.3	348.5	10570.83	287.57	-45.5	288.31	9.27
10689	61.4	346.5	10586.39	313.73	-51.31	314.57	11.45
10721	63.7	346.4	10601.15	341.34	-57.96	342.29	7.19
10753	66.2	347.1	10614.69	369.55	-64.61	370.62	8.06
10784	68.4	349.1	10626.66	397.54	-70.5	398.69	9.26
10816	71.1	349.9	10637.73	427.05	-75.97	428.3	8.76
10847	73.6	350	10647.13	456.14	-81.12	457.47	8.07
10879	76.2	350.1	10655.47	486.57	-86.46	487.99	8.13
10911	78.3	351	10662.53	517.35	-91.58	518.86	7.11
10942	81	351.4	10668.1	547.48	-96.25	549.07	8.8
10976	84.2	352.8	10672.48	580.88	-100.88	582.53	10.26
11007	87.2	354.5	10674.8	611.6	-104.3	613.31	11.12
11039	89.1	355.4	10675.83	643.45	-107.11	645.21	6.57
11102	90.5	355.5	10676.05	706.25	-112.11	708.08	2.23
11197	92.2	355.1	10673.81	800.9	-119.89	802.85	1.84
11291	93.5	353.9	10669.14	894.35	-128.89	896.44	1.88
11386	91.7	355.5	10664.83	988.84	-137.65	991.07	2.53
11481	91	356.2	10662.59	1083.56	-144.52	1085.9	1.04
11576	88.1	359.3	10663.34	1178.47	-148.25	1180.85	4.47
11670	89.5	359.8	10665.31	1272.44	-148.99	1274.82	1.58
11765	91.4	359.7	10664.56	1367.43	-149.41	1369.81	2
11860	89.3	0.1	10663.98	1462.42	-149.57	1464.79	2.25
11955	89.9	359	10664.64	1557.42	-150.32	1559.78	1.32

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12050	92.5	359.8	10662.66	1652.38	-151.31	1654.75	2.86
12144	91.4	358.4	10659.46	1746.31	-152.79	1748.69	1.89
12239	87	356.4	10660.78	1841.18	-157.1	1843.62	5.09
12334	88.7	356.2	10664.35	1935.91	-163.22	1938.44	1.8
12429	90.8	356.3	10664.76	2030.7	-169.44	2033.32	2.21
12524	90.5	358.9	10663.68	2125.6	-173.41	2128.28	2.75
12619	90.6	0.6	10662.77	2220.59	-173.83	2223.26	1.79
12714	89.3	1.4	10662.85	2315.58	-172.17	2318.2	1.61
12808	87.4	3	10665.56	2409.46	-168.56	2412.01	2.64
12903	89.8	2.5	10667.88	2504.31	-164.01	2506.77	2.58
12998	87.6	3.5	10670.04	2599.15	-159.04	2601.51	2.54
13093	89.3	3.1	10672.61	2693.96	-153.57	2696.21	1.84
13188	91.1	2.8	10672.27	2788.83	-148.68	2790.98	1.92
13283	88.1	0.2	10672.94	2883.77	-146.2	2885.87	4.18
13378	88	359	10676.17	2978.71	-146.86	2980.81	1.27
13472	92.3	358.6	10675.92	3072.67	-148.83	3074.78	4.59
13567	93.6	357.9	10671.04	3167.5	-151.72	3169.65	1.55
13662	89.2	356.8	10668.71	3262.34	-156.11	3264.55	4.77
13757	90.8	356.5	10668.71	3357.18	-161.67	3359.47	1.71
13852	92.8	355.9	10665.73	3451.92	-167.96	3454.3	2.2
13947	90.5	357	10663	3546.69	-173.84	3549.16	2.68
14041	90.1	358.2	10662.5	3640.6	-177.77	3643.13	1.35
14136	92.4	357.8	10660.43	3735.51	-181.09	3738.09	2.46
14231	90.3	358.5	10658.19	3830.43	-184.15	3833.04	2.33
14326	89.4	359.5	10658.44	3925.42	-185.81	3928.04	1.42
14421	91.6	359.1	10657.61	4020.4	-186.97	4023.03	2.35
14516	89.7	359.8	10656.54	4115.38	-187.88	4118.02	2.13
14610	88.5	0.2	10658.01	4209.37	-187.88	4211.99	1.35
14705	90.9	359.4	10658.51	4304.36	-188.21	4306.97	2.66
14800	89.3	0.6	10658.34	4399.36	-188.21	4401.95	2.11
14895	88.2	359.8	10660.42	4494.33	-187.88	4496.91	1.43
14990	89.8	358.9	10662.07	4589.31	-188.96	4591.89	1.93
15085	91.1	357.7	10661.33	4684.26	-191.78	4686.87	1.86
15179	90.2	0.1	10660.26	4778.23	-193.58	4780.86	2.73
15274	91.9	359.5	10658.52	4873.21	-193.91	4875.83	1.9
15369	90	359.5	10656.95	4968.18	-194.74	4970.81	2
15463	88.4	358.8	10658.26	5062.16	-196.14	5064.79	1.86
15558	90	358	10659.58	5157.11	-198.79	5159.78	1.88

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15653	91.9	357	10658.01	5252	-202.93	5254.72	2.26
15748	89.3	357.8	10657.01	5346.89	-207.24	5349.67	2.86
15843	87.1	358.7	10660	5441.79	-210.14	5444.61	2.5
15926	88.6	357.2	10663.11	5524.68	-213.11	5527.53	2.55
16021	89.7	356.4	10664.52	5619.52	-218.41	5622.45	1.43
16115	90.1	357.6	10664.69	5713.38	-223.33	5716.39	1.35
16210	89.6	359.1	10664.93	5808.34	-226.07	5811.38	1.66
16305	90	0.6	10665.27	5903.34	-226.31	5906.37	1.63
16400	90.2	2.3	10665.1	5998.3	-223.91	6001.28	1.8
16495	91.1	2.1	10664.02	6093.23	-220.26	6096.12	0.97
16590	92.4	2	10661.12	6188.12	-216.87	6190.94	1.37
16685	91.5	2.9	10657.89	6282.98	-212.81	6285.71	1.34
16780	90.8	2.9	10655.98	6377.83	-208	6380.48	0.74
16875	90.1	2.8	10655.24	6472.71	-203.28	6475.26	0.74
16970	89.8	2.8	10655.32	6567.6	-198.64	6570.05	0.32
17065	91.3	2.6	10654.41	6662.49	-194.16	6664.85	1.59
17159	90.5	1.4	10652.93	6756.42	-190.88	6758.71	1.53
17255	88.7	0.7	10653.6	6852.39	-189.12	6854.64	2.01
17349	89.9	0.2	10654.75	6946.38	-188.39	6948.6	1.38
17444	91	359.6	10654	7041.38	-188.55	7043.58	1.32
17539	88.6	358.6	10654.33	7136.36	-190.04	7138.57	2.74
17634	87.2	358	10657.82	7231.25	-192.86	7233.5	1.6
17729	88.6	357.4	10661.3	7326.1	-196.67	7328.41	1.6
17823	91.8	358	10660.97	7420.02	-200.44	7422.37	3.46
17918	88.3	358.5	10660.89	7514.96	-203.34	7517.35	3.72
18013	88.8	359.4	10663.29	7609.91	-205.08	7612.32	1.08
18108	91.9	359.7	10662.71	7704.89	-205.83	7707.3	3.28
18203	92.9	359.1	10658.73	7799.8	-206.82	7802.21	1.23
18297	91.3	359.6	10655.29	7893.73	-207.89	7896.14	1.78
18392	90.5	359.2	10653.79	7988.71	-208.88	7991.13	0.94
18487	91.2	358.5	10652.38	8083.68	-210.79	8086.12	1.04
18582	92.8	358.2	10649.07	8178.58	-213.52	8181.05	1.71
18676	92.2	358.2	10644.97	8272.44	-216.47	8274.95	0.64
18771	89.4	357.5	10643.64	8367.36	-220.04	8369.91	3.04
18866	87.8	359.3	10645.96	8462.29	-222.69	8464.87	2.53
18961	88.4	359.9	10649.11	8557.23	-223.35	8559.81	0.89
19056	88.7	359	10651.52	8652.19	-224.26	8654.78	1
19151	89.3	358.4	10653.18	8747.15	-226.42	8749.76	0.89

Date Start :Aug/15/2018 Job No. :2018-119-A90
 MWD Co :True Performance Drilling Co. :Akita Drilling INC
 Customer :XTO Energy INC Well Name :Remuda North 31 113H
 Location :Remuda North 31 State 113H API/UWI :30-015-44413
 Declination :6.79 MagField :.478
 Dip Angle :60.03 Vert Sec Dir (deg):359.01
 KB :3245.00 GL :3215.00
 DF :0

Depth	Inc	TAzm	TVD	N/S	E/W	VS	DLS
19245	88.8	357.8	10654.73	8841.09	-229.53	8843.73	0.83
19340	90	359.7	10655.73	8936.05	-231.61	8938.72	2.37
19440	89.6	359.4	10656.08	9036.05	-232.39	9038.72	0.5
19534	91.6	3.2	10655.09	9130	-230.26	9132.62	4.57
19629	90.6	2.7	10653.27	9224.85	-225.37	9227.37	1.18
19724	91	2.4	10651.94	9319.75	-221.15	9322.18	0.53
19819	90.9	2.3	10650.37	9414.66	-217.25	9417.01	0.15
19914	91.8	2.4	10648.13	9509.55	-213.36	9511.82	0.95
20009	92	2.2	10644.98	9604.42	-209.55	9606.61	0.3
20103	91.9	1.9	10641.78	9698.31	-206.19	9700.42	0.34
20198	91.4	1.7	10639.05	9793.22	-203.2	9795.27	0.57
20293	91.8	1.3	10636.39	9888.15	-200.72	9890.14	0.6
20388	92.4	1	10632.91	9983.07	-198.81	9985.01	0.71
20483	90.4	1.1	10630.59	10078.02	-197.07	10079.92	2.11
20578	88	0.6	10631.92	10172.99	-195.66	10174.85	2.58
20673	88	359.9	10635.23	10267.93	-195.25	10269.77	0.74
20767	87.4	359.6	10639.01	10361.85	-195.66	10363.69	0.71
20862	88.1	359.5	10642.74	10456.78	-196.4	10458.61	0.74
20957	88.6	359.3	10645.47	10551.73	-197.4	10553.57	0.57
21052	90.9	359.2	10645.89	10646.72	-198.64	10648.56	2.42
21147	91.8	358.8	10643.65	10741.68	-200.3	10743.53	1.04
21241	92.1	358.1	10640.45	10835.59	-202.84	10837.47	0.81
21336	91.8	357.1	10637.22	10930.45	-206.82	10932.39	1.1
21431	92.2	356.7	10633.9	11025.25	-211.95	11027.27	0.6
21526	90.4	357.7	10631.75	11120.11	-216.59	11122.19	2.17
21621	89	357.9	10632.24	11215.03	-220.24	11217.16	1.49
21715	89	357.5	10633.88	11308.94	-224.01	11311.12	0.43
21810	89.4	358.2	10635.21	11403.87	-227.57	11406.09	0.85
21905	90.7	358.8	10635.13	11498.83	-230.06	11501.09	1.51
22000	90	357.8	10634.55	11593.79	-232.88	11596.08	1.28
22094	89.5	357.6	10634.96	11687.71	-236.65	11690.05	0.57
22189	89.1	357.9	10636.12	11782.63	-240.38	11785.02	0.53
22284	88.5	359.4	10638.11	11877.58	-242.62	11880	1.7
22379	90.1	359	10639.27	11972.56	-243.94	11974.98	1.74
22474	90.2	358.4	10639.02	12067.53	-246.1	12069.98	0.64
22569	89.8	359.1	10639.02	12162.51	-248.17	12164.98	0.85
22663	90.1	3.2	10639.1	12256.47	-246.28	12258.9	4.37
22758	91.7	359.9	10637.61	12351.41	-243.71	12353.77	3.86

Date Start :Aug/15/2018 Job No. :2018-119-A90
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 Declination :6.79 MagField :.478
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 KB :3245.00 GL :3215.00
 DF :0

Depth	Inc	TAzm	TVD	N/S	E/W	VS	DLS
22853	92.7	1.4	10633.96	12446.33	-242.64	12448.66	1.9
22948	92.7	1.4	10629.49	12541.19	-240.32	12543.47	0
23043	92.3	0.8	10625.34	12636.08	-238.5	12638.32	0.76
23138	91.4	0.3	10622.28	12731.03	-237.59	12733.23	1.08
23233	91	359.6	10620.29	12826.01	-237.67	12828.2	0.85
23327	91	358.6	10618.65	12919.98	-239.14	12922.18	1.06
23422	91	358.6	10616.99	13014.94	-241.47	13017.17	0
23518	90.8	358.9	10615.48	13110.9	-243.56	13113.15	0.38
23613	90.8	357.5	10614.15	13205.84	-246.54	13208.13	1.47
23708	91.4	356.3	10612.33	13300.69	-251.68	13303.05	1.41
23803	92	356.7	10609.51	13395.47	-257.48	13397.92	0.76
23898	92.8	357	10605.53	13490.24	-262.69	13492.76	0.9
23993	91.5	355.7	10601.97	13584.97	-268.74	13587.59	1.93
24048	90.8	355.4	10600.87	13639.8	-273	13642.48	1.38
24100	90.8	355.4	10600.14	13691.63	-277.17	13694.37	0