

Great Western Operating Company, LLC

Location

Field

Installation

Colorado

Wattenburg

Schneider - South

Slot

Well

Wellbore

Slot 15 - Schneider HD 11-342HNX

Schneider HD 11-342HNX

Schneider HD 11-342HNX (AWB)

Created by

admin

Date plotted

25-Apr-2018

Plot reference is

Schneider HD 11-342HNX (AWB)

Ref wellpath is

Schneider HD 11-342HNX (AWP#1)

Coordinates are in

Feet reference Slot 15 - Schneider HD 11-342HNX

True Vertical Depths are

reference Rig Datum

Measured Depths are

reference Rig Datum

Rig Datum: Actual Datum #1

Rig Datum to Mean Sea Level: 47'55.10 ft.

Plot North is aligned to

TRUE North

East (Feet) ->

Scale 1 cm = 400 ft

E

GRF Model [1900.0-2020.0] Dip: 66.86 deg Field: 52652.2 nT  
Lat: N40 19 21.9792 Long: W104 49 43.4100 Elev: 4735.10 ft  
Magnetic North is 6.55 deg East of TRUE North  
To convert from Magnetic to TRUE add 6.55 deg

Scale 1 cm = 800 ft

<- True Vertical Depth (Feet)

460 Setback: 7274 / 6926 MD/TVD, 721 FSL, 460 FEL Sec 12  
Top Perf: 7389 / 6938 MD/TVD, 717 FSL, 574 FEL Sec 12

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Top Perf: 7389 / 6938 MD/TVD, 717 FSL, 574 FEL Sec 12

9.625" Csg: 1575 MD/TVD

460 Setback: 7274 / 6926 MD/TVD, 721 FSL, 460 FEL Sec 12  
Top Perf: 7389 / 6938 MD/TVD, 717 FSL, 574 FEL Sec 12

W/2 Sec 7, T4N, R66W

S/2 Sec 12, T4N, R67W

S/2 Sec 11, T4N, R67W

460 Setback: 7274 / 6926 MD/TVD, 721 FSL, 460 FEL Sec 12  
Top Perf: 7389 / 6938 MD/TVD, 717 FSL, 574 FEL Sec 12

Btm Perf: 16,841 / 6839 MD/TVD, 697 FSL, 569 FWL Sec 11  
Btm Toe Sub: 16,874 / 6839 MD/TVD, 693 FSL, 536 FWL Sec 11  
PBTD: 16,924 / 6840 MD/TVD, 687 FSL, 486 FWL Sec 11

5.5" Csg: 16,937 / 6840 MD/TVD, 685 FSL, 473 FWL Sec 11  
BHL: 16,937 / 6840 MD/TVD, 685 FSL, 473 FWL Sec 11

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Btm Toe Sub: 16,874 / 6839 MD/TVD, 693 FSL, 536 FWL Sec 11  
Btm Perf: 16,841 / 6839 MD/TVD, 697 FSL, 569 FWL Sec 11

Scale 1 cm = 200 ft

<- North(Feet)

Vertical Section (Feet) ->

Scale 1 cm = 800 ft

Azimuth 268.18 with reference 0.00 N, 0.00 E from Slot 15 - Schneider HD 11-342HNX

Great Western Operating Co, LLC  
Wellbore Survey Report  
Wellpath: Schneider HD 11-342HNX (AWP#1)  
MDs and TVDs are from Rig ( Actual Datum #1 4755.1ft above Mean Sea Level )

**Wellbore Information**

Date Created	Date Revised	API #	Name
Jun-14-2017	Apr-25-2018	05-123-44684	Schneider HD 11-342HNX (AWB)

**Slot Coordinates**

Latitude	Longitude
40.32219400	-104.82872200

**Pad Information**

Name	Ground Elev
Schneider - South	4735.10

**Field**

Name
Wattenburg

**Wellpath Report**

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]
0.00	0.00	0.000	0.00	0.00	0.00		0.00
14.90	0.00	278.250	14.90	0.00	0.00	==>	0.00
125.90	0.26	278.250	125.90	0.04	-0.25	0.23	0.25
221.90	0.18	278.250	221.90	0.09	-0.61	0.08	0.61
316.90	0.75	296.790	316.90	0.39	-1.32	0.61	1.30
411.90	1.14	303.390	411.88	1.19	-2.66	0.43	2.62
506.90	1.36	311.120	506.86	2.45	-4.30	0.29	4.22
600.90	0.83	287.130	600.84	3.39	-5.79	0.73	5.68
695.90	0.83	254.340	695.83	3.40	-7.11	0.49	7.00
790.90	1.27	229.210	790.82	2.53	-8.57	0.66	8.49
885.90	0.31	213.830	885.81	1.63	-9.51	1.03	9.45
980.90	0.53	123.120	980.81	1.18	-9.29	0.65	9.24
1075.90	0.04	74.260	1075.80	0.94	-8.89	0.53	8.85
1170.90	1.10	304.350	1170.80	1.47	-9.61	1.19	9.55
1265.90	1.63	302.330	1265.77	2.70	-11.50	0.56	11.41
1360.90	1.32	269.640	1360.74	3.42	-13.74	0.93	13.62
1456.90	1.36	233.770	1456.72	2.74	-15.76	0.86	15.67
1519.90	1.14	221.030	1519.70	1.83	-16.78	0.56	16.71
1521.90	1.23	228.500	1521.70	1.80	-16.81	8.93	16.74
1575.00	1.19	237.060	1574.79	1.12	-17.69	0.35	17.65
1606.00	1.18	242.260	1605.78	0.80	-18.25	0.35	18.21
1695.00	3.86	220.970	1694.69	-1.89	-21.02	3.14	21.07
1784.00	5.02	228.480	1783.42	-6.74	-25.90	1.46	26.10
1874.00	5.06	228.370	1873.07	-11.98	-31.82	0.05	32.18
1963.00	4.21	232.160	1961.78	-16.60	-37.33	1.01	37.84
2052.00	2.95	233.410	2050.61	-19.96	-41.75	1.42	42.36
2142.00	2.42	234.410	2140.51	-22.45	-45.16	0.59	45.85
2231.00	0.10	131.620	2229.48	-23.60	-46.63	2.75	47.35
2320.00	0.09	18.540	2318.48	-23.58	-46.55	0.18	47.27
2410.00	0.07	133.210	2408.48	-23.55	-46.48	0.15	47.21
2499.00	0.18	182.250	2497.48	-23.73	-46.45	0.16	47.18
2588.00	0.22	304.080	2586.48	-23.77	-46.60	0.39	47.33
2677.00	0.14	183.160	2675.48	-23.79	-46.74	0.35	47.48
2767.00	0.18	19.880	2765.48	-23.76	-46.70	0.35	47.43
2856.00	0.11	66.730	2854.48	-23.60	-46.57	0.15	47.30
2945.00	0.04	317.370	2943.48	-23.54	-46.52	0.14	47.24
3035.00	0.07	58.570	3033.48	-23.49	-46.49	0.10	47.21
3124.00	0.15	317.750	3122.48	-23.37	-46.52	0.20	47.24
3214.00	0.11	287.370	3212.48	-23.26	-46.69	0.09	47.40
3303.00	0.13	43.230	3301.48	-23.16	-46.70	0.23	47.41
3392.00	0.23	104.730	3390.48	-23.13	-46.46	0.23	47.17
3481.00	0.03	163.540	3479.48	-23.20	-46.28	0.24	46.99
3571.00	0.07	195.160	3569.48	-23.28	-46.28	0.05	47.00
3660.00	0.10	341.610	3658.48	-23.26	-46.32	0.18	47.04
3750.00	0.10	111.790	3748.48	-23.21	-46.27	0.20	46.99
3839.00	0.07	93.970	3837.48	-23.24	-46.15	0.04	46.86
3928.00	0.20	221.730	3926.48	-23.36	-46.20	0.28	46.92
4018.00	0.06	112.420	4016.48	-23.50	-46.26	0.25	46.98
4107.00	0.32	1.250	4105.48	-23.27	-46.21	0.39	46.93
4197.00	0.09	214.140	4195.48	-23.08	-46.24	0.44	46.95
4286.00	0.04	292.900	4284.48	-23.12	-46.31	0.10	47.02
4376.00	0.16	217.060	4374.48	-23.21	-46.42	0.17	47.13
4465.00	0.09	170.930	4463.48	-23.38	-46.48	0.13	47.20
4554.00	0.23	185.790	4552.48	-23.62	-46.49	0.16	47.22
4644.00	0.14	60.850	4642.48	-23.75	-46.41	0.37	47.14
4733.00	0.14	355.440	4731.48	-23.59	-46.32	0.17	47.05
4822.00	0.18	257.300	4820.48	-23.51	-46.47	0.27	47.19
4912.00	0.06	284.780	4910.48	-23.53	-46.65	0.14	47.38
5001.00	0.09	150.580	4999.48	-23.58	-46.66	0.16	47.39
5090.00	0.22	236.780	5088.48	-23.73	-46.77	0.26	47.50
5180.00	0.11	180.360	5178.48	-23.91	-46.92	0.20	47.65
5269.00	0.09	5.960	5267.48	-23.93	-46.91	0.22	47.65
5358.00	0.12	215.030	5356.48	-23.94	-46.96	0.23	47.69
5448.00	0.11	179.240	5446.48	-24.10	-47.01	0.08	47.75
5537.00	0.50	239.870	5535.47	-24.38	-47.34	0.51	48.09
5626.00	4.01	216.350	5624.39	-27.08	-49.52	4.00	50.36
5716.00	6.77	212.760	5713.99	-34.08	-54.26	3.09	55.32
5805.00	6.06	215.220	5802.43	-42.33	-59.81	0.86	61.12
5894.00	7.46	218.600	5890.81	-50.68	-66.12	1.63	67.70

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]
5984.00	11.41	222.020	5979.57	-61.87	-75.73	4.43	77.66
6073.00	13.40	224.280	6066.49	-75.79	-88.83	2.30	91.19
6162.00	16.82	226.480	6152.40	-92.05	-105.37	3.90	108.24
6252.00	19.81	228.710	6237.83	-111.08	-126.27	3.41	129.74
6341.00	22.24	233.490	6320.91	-131.06	-151.15	3.34	155.24
6430.00	25.31	236.160	6402.35	-151.68	-180.50	3.65	185.23
6520.00	27.65	236.530	6482.90	-173.91	-213.90	2.61	219.32
6609.00	31.24	231.830	6560.40	-199.58	-249.29	4.79	255.50
6698.00	37.03	230.830	6634.04	-230.79	-288.24	6.54	295.43
6788.00	43.33	238.440	6702.81	-264.13	-335.64	8.86	343.87
6877.00	51.08	242.410	6763.24	-296.20	-392.44	9.30	401.66
6966.00	56.86	249.150	6815.61	-325.54	-458.05	8.92	468.17
7055.00	63.91	256.790	6859.61	-347.99	-531.96	10.88	542.75
7144.00	69.89	263.510	6894.55	-361.87	-612.54	9.66	623.73
7233.00	78.48	267.100	6918.79	-368.82	-697.79	10.40	709.16
7273.81	80.74	267.320	6926.15	-370.77	-737.88	5.56	749.29
7323.00	83.46	267.580	6932.91	-372.94	-786.55	5.56	798.01
7389.00	88.33	267.880	6937.63	-375.55	-852.31	7.40	863.82
7412.00	90.03	267.980	6937.96	-376.38	-875.29	7.40	886.81
7502.00	89.75	266.160	6938.13	-380.98	-965.17	2.05	976.79
7591.00	89.54	273.290	6938.68	-381.41	-1054.11	8.01	1065.70
7681.00	89.51	273.300	6939.43	-376.23	-1143.96	0.04	1155.34
7770.00	90.12	273.460	6939.72	-370.99	-1232.80	0.71	1243.97
7860.00	90.15	273.040	6939.50	-365.88	-1322.66	0.47	1333.62
7949.00	90.06	272.600	6939.34	-361.51	-1411.55	0.50	1422.33
8039.00	90.12	271.540	6939.20	-358.25	-1501.49	1.18	1512.12
8128.00	90.15	270.800	6938.99	-356.44	-1590.47	0.83	1601.00
8217.00	90.15	270.330	6938.76	-355.56	-1679.47	0.53	1689.92
8307.00	89.94	270.230	6938.69	-355.12	-1769.46	0.26	1779.86
8396.00	90.22	269.860	6938.56	-355.05	-1858.46	0.52	1868.81
8486.00	90.15	268.160	6938.27	-356.60	-1948.45	1.89	1958.80
8575.00	90.15	267.190	6938.04	-360.22	-2037.37	1.09	2047.79
8664.00	90.12	266.470	6937.83	-365.14	-2126.24	0.81	2136.77
8754.00	90.28	266.290	6937.51	-370.82	-2216.06	0.27	2226.72
8843.00	90.37	267.400	6937.01	-375.72	-2304.92	1.25	2315.69
8932.00	90.95	268.760	6935.98	-378.70	-2393.86	1.66	2404.69
9021.00	90.31	270.140	6935.01	-379.55	-2482.85	1.71	2493.66
9111.00	90.40	270.200	6934.45	-379.29	-2572.84	0.12	2583.60
9200.00	90.43	270.760	6933.80	-378.54	-2661.84	0.63	2672.53
9289.00	90.28	273.260	6933.25	-375.42	-2750.78	2.81	2761.32
9379.00	90.31	273.570	6932.79	-370.06	-2840.61	0.35	2850.94
9468.00	90.25	275.250	6932.35	-363.22	-2929.35	1.89	2939.41
9557.00	90.37	278.160	6931.87	-352.83	-3017.73	3.27	3027.42
9647.00	89.97	276.830	6931.61	-341.09	-3106.96	1.54	3116.23
9736.00	89.78	268.600	6931.80	-336.87	-3195.78	9.25	3204.87
9826.00	89.54	268.090	6932.33	-339.47	-3285.74	0.63	3294.87
9915.00	90.55	268.970	6932.26	-341.76	-3374.71	1.51	3383.87
10004.00	90.31	270.940	6931.60	-341.83	-3463.70	2.23	3472.82
10094.00	90.03	269.160	6931.33	-341.75	-3553.70	2.00	3562.76
10183.00	90.71	269.870	6930.75	-342.50	-3642.69	1.10	3651.74
10273.00	90.68	271.560	6929.66	-341.38	-3732.67	1.88	3741.64
10362.00	90.68	271.400	6928.61	-339.08	-3821.64	0.18	3830.48
10452.00	90.83	271.520	6927.42	-336.79	-3911.60	0.21	3920.33
10541.00	90.62	271.100	6926.29	-334.75	-4000.57	0.53	4009.19
10630.00	90.86	269.680	6925.14	-334.15	-4089.56	1.62	4098.11
10719.00	90.92	268.160	6923.76	-335.82	-4178.53	1.71	4187.09
10809.00	90.92	265.730	6922.32	-340.62	-4268.38	2.70	4277.05
10898.00	90.92	265.550	6920.89	-347.38	-4357.11	0.20	4365.95
10988.00	90.71	266.350	6919.61	-353.74	-4446.88	0.92	4455.88
11077.00	90.83	268.270	6918.41	-357.92	-4535.77	2.16	4544.85
11166.00	90.25	269.050	6917.57	-360.00	-4624.74	1.09	4633.85
11256.00	90.18	264.350	6917.23	-365.18	-4714.56	5.22	4723.79
11345.00	90.71	260.870	6916.54	-376.62	-4802.81	3.96	4812.35
11435.00	90.55	264.500	6915.55	-388.08	-4892.06	4.04	4901.92
11524.00	90.52	269.640	6914.72	-392.63	-4980.91	5.78	4990.87
11614.00	89.85	269.560	6914.43	-393.25	-5070.90	0.75	5080.84
11703.00	90.22	271.540	6914.38	-392.40	-5159.89	2.26	5169.76
11792.00	89.72	275.390	6914.42	-387.02	-5248.71	4.36	5258.36
11882.00	89.78	277.670	6914.82	-376.79	-5338.12	2.53	5347.40
11971.00	89.85	276.870	6915.10	-365.53	-5426.41	0.90	5435.28
12061.00	89.88	274.490	6915.32	-356.62	-5515.96	2.64	5524.51
12150.00	89.88	271.700	6915.50	-351.81	-5604.82	3.13	5613.17
12239.00	91.08	270.680	6914.76	-349.97	-5693.79	1.77	5702.04
12329.00	90.92	271.210	6913.19	-348.48	-5783.77	0.62	5791.92
12418.00	90.98	270.460	6911.71	-347.18	-5872.75	0.85	5880.81
12507.00	90.86	270.480	6910.28	-346.45	-5961.73	0.14	5969.73
12597.00	91.29	270.070	6908.59	-346.02	-6051.71	0.66	6059.65
12686.00	91.11	269.400	6906.73	-346.43	-6140.69	0.78	6148.60
12775.00	91.29	270.050	6904.87	-346.86	-6229.67	0.76	6237.55
12865.00	91.14	271.940	6902.96	-345.30	-6319.63	2.11	6327.42
12954.00	91.38	275.360	6901.00	-339.64	-6408.42	3.85	6415.98
13043.00	90.98	273.570	6899.17	-332.71	-6497.13	2.06	6504.42
13133.00	90.83	271.680	6897.74	-328.59	-6587.02	2.11	6594.13
13222.00	91.20	270.560	6896.17	-326.85	-6675.98	1.33	6683.00
13311.00	91.14	269.590	6894.35	-326.73	-6764.96	1.09	6771.93
13400.00	89.85	269.400	6893.58	-327.52	-6853.96	1.47	6860.90
13490.00	90.00	269.420	6893.70	-328.44	-6943.95	0.17	6950.88
13579.00	91.08	268.750	6892.86	-329.86	-7032.93	1.43	7039.86
13669.00	90.83	269.130	6891.36	-331.53	-7122.91	0.51	7129.84
13758.00	91.08	269.160	6889.88	-332.86	-7211.88	0.28	7218.82
13847.00	91.01	270.140	6888.25	-333.40	-7300.87	1.10	7307.77
13937.00	90.98	270.630	6886.69	-332.80	-7390.85	0.55	7397.69

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]
14026.00	91.11	271.310	6885.07	-331.29	-7479.82	0.78	7486.57
14116.00	91.08	272.360	6883.35	-328.41	-7569.76	1.17	7576.37
14205.00	91.05	271.970	6881.69	-325.05	-7658.68	0.44	7665.14
14294.00	91.08	271.550	6880.04	-322.31	-7747.62	0.47	7753.95
14383.00	92.09	271.380	6877.58	-320.04	-7836.56	1.15	7842.77
14473.00	91.84	269.750	6874.49	-319.15	-7926.50	1.83	7932.64
14562.00	91.78	270.100	6871.68	-319.27	-8015.45	0.40	8021.55
14652.00	91.75	270.080	6868.91	-319.13	-8105.41	0.04	8111.46
14741.00	91.82	270.630	6866.14	-318.58	-8194.36	0.62	8200.35
14830.00	91.88	271.350	6863.26	-317.04	-8283.30	0.81	8289.20
14920.00	91.97	271.640	6860.24	-314.69	-8373.22	0.34	8378.99
15009.00	91.81	272.400	6857.30	-311.56	-8462.12	0.87	8467.74
15098.00	90.71	272.030	6855.35	-308.12	-8551.03	1.30	8556.50
15188.00	91.05	272.200	6853.97	-304.80	-8640.96	0.42	8646.28
15277.00	90.95	271.020	6852.41	-302.30	-8729.91	1.33	8735.10
15366.00	91.20	269.920	6850.74	-301.57	-8818.89	1.27	8824.02
15456.00	91.48	268.880	6848.64	-302.51	-8908.85	1.20	8913.97
15545.00	91.38	268.260	6846.42	-304.73	-8997.80	0.71	9002.94
15635.00	90.40	268.060	6845.02	-307.62	-9087.74	1.11	9092.93
15724.00	90.43	268.750	6844.37	-310.10	-9176.70	0.78	9181.92
15813.00	90.31	268.300	6843.80	-312.39	-9265.67	0.52	9270.92
15903.00	90.52	266.820	6843.15	-316.22	-9355.59	1.66	9360.91
15992.00	90.49	267.310	6842.36	-320.77	-9444.46	0.55	9449.89
16081.00	90.52	269.220	6841.58	-323.47	-9533.42	2.15	9538.88
16171.00	90.46	269.640	6840.81	-324.36	-9623.41	0.47	9628.86
16260.00	90.43	269.640	6840.12	-324.92	-9712.40	0.03	9717.82
16349.00	90.43	270.280	6839.45	-324.99	-9801.40	0.72	9806.78
16438.00	90.43	271.010	6838.78	-323.98	-9890.39	0.82	9895.69
16528.00	90.03	272.540	6838.42	-321.20	-9980.35	1.76	9985.51
16617.00	90.06	273.720	6838.35	-316.34	-10069.21	1.33	10074.18
16706.00	89.57	271.370	6838.64	-312.38	-10158.12	2.70	10162.91
16796.00	89.75	264.780	6839.17	-315.41	-10248.01	7.32	10252.86
16841.00	89.79	264.140	6839.35	-319.75	-10292.80	1.42	10297.77
16874.13	89.81	263.670	6839.47	-323.27	-10325.75	1.42	10330.80
16885.00	89.82	263.520	6839.51	-324.48	-10336.55	1.42	10341.64
16924.21	89.82	263.520	6839.63	-328.90	-10375.51	==>	10380.72
16937.00	89.82	263.520	6839.67	-330.35	-10388.22	==>	10393.47

Comments

MD[ft]	TVD[ft]	North[ft]	East[ft]	Comment			
1575.00	1574.79	1.12	-17.69	9.625" Csg: 1575 MD/TVD			
7273.81	6926.15	-370.77	-737.88	460 Setback: 7274 / 6926 MD/TVD, 721 FSL, 460 FEL Sec 12			
7389.00	6937.63	-375.55	-852.31	Top Perf: 7389 / 6938 MD/TVD, 717 FSL, 574 FEL Sec 12			
16841.00	6839.35	-319.75	-10292.80	Btm Perf: 16,841 / 6839 MD/TVD, 697 FSL, 569 FWL Sec 11			
16874.13	6839.47	-323.27	-10325.75	Btm Toe Sub: 16,874 / 6839 MD/TVD, 693 FSL, 536 FWL Sec 11			
16924.21	6839.63	-328.90	-10375.51	PBTD: 16,924 / 6840 MD/TVD, 687 FSL, 486 FWL Sec 11			
16937.00	6839.67	-330.35	-10388.22	5.5" Csg: 16,937 / 6840 MD/TVD, 685 FSL, 473 FWL Sec 11			
16937.00	6839.67	-330.35	-10388.22	BHL: 16,937 / 6840 MD/TVD, 685 FSL, 473 FWL Sec 11			

Hole Sections

Diameter [in]	Start MD[ft]	Start TVD[ft]	Start North[ft]	Start East[ft]	End MD[ft]	End TVD[ft]	End North[ft]	End East[ft]
13.500	0.00	0.00	0.00	0.00	1575.00	1574.79	1.12	-17.69
8.500	1575.00	1574.79	1.12	-17.69	16937.00	6839.67	-330.35	-10388.22

Casings

Name	Top MD[ft]	Top TVD[ft]	Top North[ft]	Top East[ft]	Shoe MD[ft]	Shoe TVD[ft]	Shoe North[ft]	Shoe East[ft]
9 5/8in Casing	0.00	0.00	0.00	0.00	1575.00	1574.79	1.12	-17.69
5 1/2in Casing	0.00	0.00	0.00	0.00	16937.00	6839.67	-330.35	-10388.22

Survey Tool Program

Reference	Survey Name	MD[ft]	TVD[ft]	Survey Tool	Error Model
276047	As Drilled - 20170614	16937.00	6839.67	MWD	

Coordinates are from Slot MD's are from Rig and TVD's are from Rig ( Actual Datum #1 4755.1ft above Mean Sea Level )

Vertical Section is from 0.00 0.00 on azimuth 268.180 degrees

Bottom hole distance is 10393.47 Feet on azimuth 268.18 degrees from Wellhead

Calculation method uses Minimum Curvature method

Prepared by Great Western Operating Co.

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