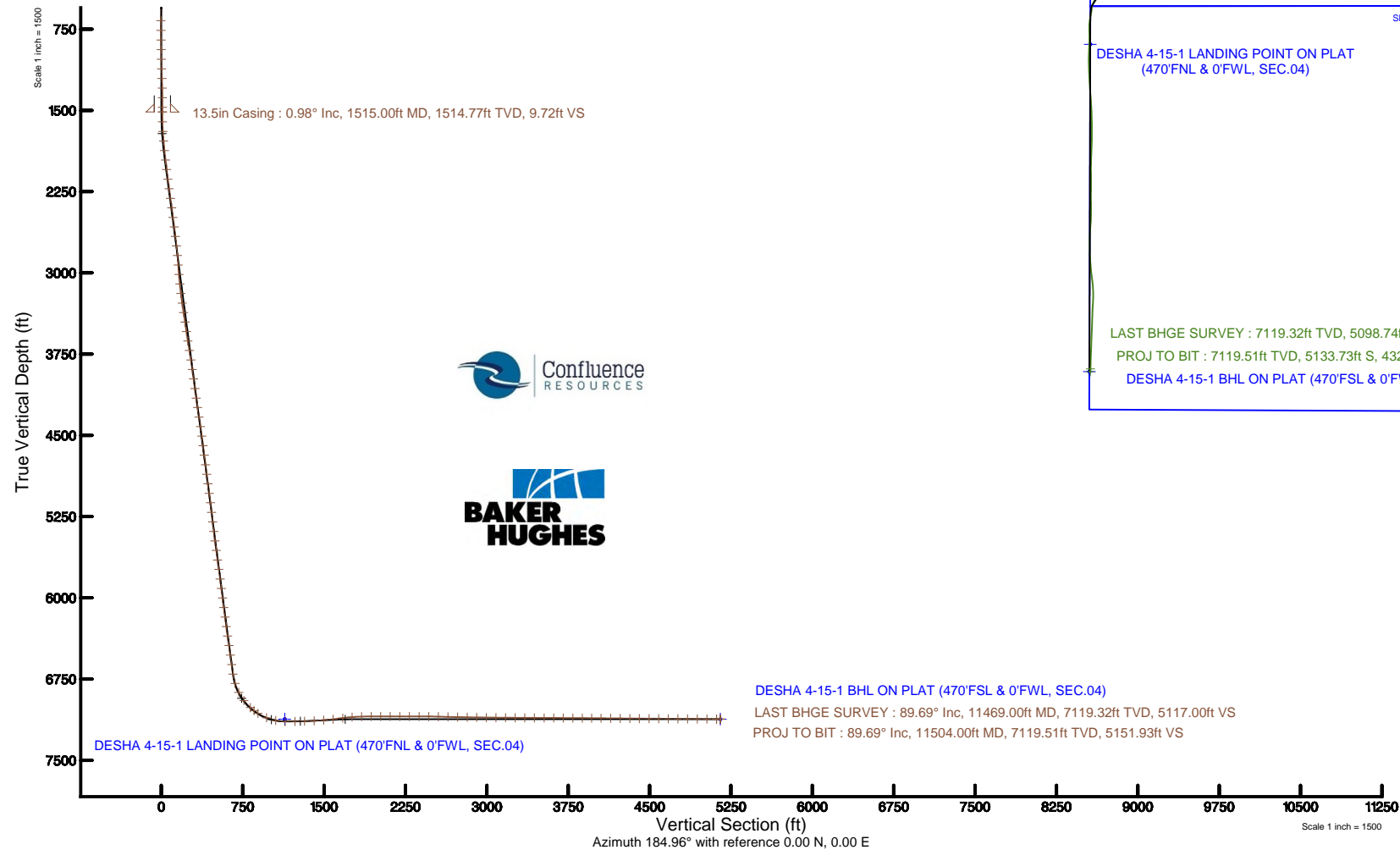


CONFLUENCE RESOURCES

Location: COLORADO Slot: SLOT#03 DESHA 4-15-1 (635'FSL & 450'FWL, SEC.33)
Field: WELD COUNTY (NAD83, TRUE NORTH) Well: DESHA 4-15-1
Facility: SEC.33-T01N-R65W Wellbore: DESHA 4-15-1 PWB

Plot reference wellpath is DESHA 4-15-1 (REV-C.0) PWP	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
True vertical depths are referenced to RIG (16') (RKB)	North Reference: True north
Measured depths are referenced to RIG (16') (RKB)	Scale: True distance
RIG (16') (RKB) to Mean Sea Level: 5094 feet	Depths are in feet
Mean Sea Level to Mud line (At Slot: SLOT#03 DESHA 4-15-1 (635'FSL & 450'FWL, SEC.33)): 0 feet	Created by: bushjamh on 2018-08-30
Coordinates are in feet referenced to Slot	Database: Denver



Actual Wellpath Report

DESHA 4-15-1 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	CONFLUENCE RESOURCES	Slot	SLOT#03 DESHA 4-15-1 (635'FSL & 450'FWL, SEC.33)
Area	COLORADO	Well	DESHA 4-15-1
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	DESHA 4-15-1 AWB
Facility	SEC.33-T01N-R65W		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 5.1
North Reference	True	User	Bushjamh
Scale	0.999966	Report Generated	8/30/2018 at 12:50:45 PM
Convergence at slot	0.53° East	Database/Source file	Denver/DESHA_4-15-1_AWP.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-349.72	151.28	3230611.41	1244747.81	40°00'08.208"N	104°40'36.480"W
Facility Reference Pt			3230456.90	1245096.09	40°00'11.664"N	104°40'38.424"W
Field Reference Pt			3230456.90	1245096.09	40°00'11.664"N	104°40'38.424"W

WELLPATH DATUM

Calculation method	Minimum curvature	RIG (16') (RKB) to Facility Vertical Datum	5094.00ft
Horizontal Reference Pt	Slot	RIG (16') (RKB) to Mean Sea Level	5094.00ft
Vertical Reference Pt	RIG (16') (RKB)	RIG (16') (RKB) to Mud Line at Slot (SLOT#03 DESHA 4-15-1 (635'FSL & 450'FWL, SEC.33))	5094.00ft
MD Reference Pt	RIG (16') (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	184.96°

Actual Wellpath Report

DESHA 4-15-1 AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CONFLUENCE RESOURCES	Slot	SLOT#03 DESHA 4-15-1 (635'FSL & 450'FWL, SEC.33)
Area	COLORADO	Well	DESHA 4-15-1
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	DESHA 4-15-1 AWP
Facility	SEC.33-T01N-R65W		

WELLPATH DATA (132 stations) † = interpolated/extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	56.000	0.00	0.00	0.00	0.00	40°00'08.208"N	104°40'36.480"W	0.00	
16.00	0.000	56.000	16.00	0.00	0.00	0.00	40°00'08.208"N	104°40'36.480"W	0.00	
141.00	0.250	56.000	141.00	-0.17	0.15	0.23	40°00'08.210"N	104°40'36.477"W	0.20	
229.00	0.240	69.880	229.00	-0.37	0.32	0.56	40°00'08.211"N	104°40'36.473"W	0.07	
317.00	0.500	56.900	317.00	-0.69	0.60	1.05	40°00'08.214"N	104°40'36.466"W	0.31	
406.00	0.260	101.640	406.00	-0.90	0.77	1.58	40°00'08.216"N	104°40'36.460"W	0.41	
495.00	0.620	44.720	494.99	-1.25	1.07	2.11	40°00'08.219"N	104°40'36.453"W	0.59	
672.00	1.120	333.050	671.98	-3.45	3.29	2.00	40°00'08.241"N	104°40'36.454"W	0.62	
761.00	0.540	169.760	760.97	-3.79	3.65	1.68	40°00'08.244"N	104°40'36.458"W	1.85	
850.00	1.050	157.880	849.96	-2.66	2.49	2.06	40°00'08.233"N	104°40'36.453"W	0.60	
939.00	1.000	169.320	938.95	-1.18	0.97	2.52	40°00'08.218"N	104°40'36.448"W	0.24	
1028.00	1.110	139.110	1027.93	0.17	-0.45	3.22	40°00'08.204"N	104°40'36.439"W	0.63	
1117.00	1.710	202.440	1116.91	2.03	-2.33	3.28	40°00'08.185"N	104°40'36.438"W	1.76	
1206.00	2.100	204.640	1205.86	4.84	-5.04	2.09	40°00'08.158"N	104°40'36.453"W	0.45	
1294.00	2.060	200.010	1293.80	7.88	-7.99	0.88	40°00'08.129"N	104°40'36.469"W	0.20	
1383.00	0.860	261.620	1382.78	9.58	-9.59	-0.33	40°00'08.113"N	104°40'36.484"W	2.04	
1472.00	0.650	271.880	1471.77	9.76	-9.67	-1.49	40°00'08.112"N	104°40'36.499"W	0.28	
1515.00	0.980	284.110	1514.77	9.72	-9.57	-2.09	40°00'08.113"N	104°40'36.507"W	0.86	
1606.00	1.500	239.820	1605.75	10.28	-9.98	-3.88	40°00'08.109"N	104°40'36.530"W	1.16	
1695.00	6.460	236.940	1694.50	14.04	-13.30	-9.08	40°00'08.077"N	104°40'36.597"W	5.58	
1784.00	8.060	241.230	1782.79	20.58	-19.03	-18.75	40°00'08.020"N	104°40'36.721"W	1.90	
1873.00	8.170	228.220	1870.90	28.65	-26.25	-28.94	40°00'07.949"N	104°40'36.852"W	2.06	
1961.00	8.240	217.150	1958.01	38.55	-35.44	-37.41	40°00'07.858"N	104°40'36.961"W	1.79	
2050.00	8.110	221.470	2046.11	48.99	-45.23	-45.42	40°00'07.761"N	104°40'37.064"W	0.71	
2140.00	8.050	208.990	2135.22	59.85	-55.50	-52.67	40°00'07.660"N	104°40'37.157"W	1.95	
2229.00	7.960	196.090	2223.36	71.59	-66.87	-57.40	40°00'07.547"N	104°40'37.218"W	2.02	
2318.00	7.860	198.320	2311.51	83.55	-78.57	-61.02	40°00'07.432"N	104°40'37.264"W	0.36	
2407.00	7.980	201.380	2399.66	95.40	-90.10	-65.19	40°00'07.318"N	104°40'37.318"W	0.49	
2496.00	7.740	203.630	2487.83	107.01	-101.35	-69.84	40°00'07.206"N	104°40'37.377"W	0.44	
2585.00	7.880	207.680	2576.00	118.31	-112.24	-75.08	40°00'07.099"N	104°40'37.445"W	0.64	

Actual Wellpath Report

DESHA 4-15-1 AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CONFLUENCE RESOURCES	Slot	SLOT#03 DESHA 4-15-1 (635'FSL & 450'FWL, SEC.33)
Area	COLORADO	Well	DESHA 4-15-1
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	DESHA 4-15-1 AWP
Facility	SEC.33-T01N-R65W		

WELLPATH DATA (132 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
2673.00	8.110	216.210	2663.15	129.18	-122.59	-81.55	40°00'06.997"N	104°40'37.528"W	1.37	
2762.00	8.250	225.000	2751.25	139.44	-132.17	-89.77	40°00'06.902"N	104°40'37.634"W	1.41	
2851.00	8.430	235.940	2839.31	148.44	-140.34	-99.69	40°00'06.821"N	104°40'37.761"W	1.79	
2940.00	8.590	247.300	2927.34	155.63	-146.56	-111.23	40°00'06.760"N	104°40'37.909"W	1.89	
3028.00	8.580	241.880	3014.35	162.26	-152.19	-123.08	40°00'06.704"N	104°40'38.062"W	0.92	
3117.00	8.600	233.730	3102.36	170.27	-159.26	-134.30	40°00'06.634"N	104°40'38.206"W	1.37	
3206.00	8.640	221.530	3190.36	180.03	-168.20	-144.10	40°00'06.546"N	104°40'38.332"W	2.05	
3295.00	8.610	198.700	3278.38	191.87	-179.52	-150.67	40°00'06.434"N	104°40'38.416"W	3.82	
3384.00	8.600	186.170	3366.39	205.00	-192.44	-153.52	40°00'06.306"N	104°40'38.453"W	2.10	
3473.00	9.030	203.910	3454.35	218.26	-205.45	-157.07	40°00'06.178"N	104°40'38.498"W	3.08	
3561.00	9.710	218.480	3541.19	230.98	-217.57	-164.49	40°00'06.058"N	104°40'38.594"W	2.80	
3650.00	9.620	203.030	3628.94	244.31	-230.29	-172.07	40°00'05.932"N	104°40'38.691"W	2.91	
3739.00	9.630	203.380	3716.69	258.44	-243.97	-177.93	40°00'05.797"N	104°40'38.766"W	0.07	
3828.00	9.670	208.640	3804.43	272.35	-257.36	-184.47	40°00'05.665"N	104°40'38.850"W	0.99	
3916.00	8.630	209.520	3891.31	285.12	-269.59	-191.26	40°00'05.544"N	104°40'38.938"W	1.19	
4005.00	8.540	208.990	3979.31	297.23	-281.18	-197.76	40°00'05.429"N	104°40'39.021"W	0.13	
4095.00	8.500	212.340	4068.32	309.24	-292.65	-204.55	40°00'05.316"N	104°40'39.109"W	0.55	
4184.00	8.600	205.990	4156.33	321.29	-304.19	-210.99	40°00'05.202"N	104°40'39.191"W	1.07	
4272.00	8.560	198.490	4243.35	333.80	-316.31	-215.95	40°00'05.082"N	104°40'39.255"W	1.27	
4361.00	8.550	192.720	4331.36	346.80	-329.05	-219.51	40°00'04.956"N	104°40'39.301"W	0.96	
4450.00	8.630	197.100	4419.37	359.88	-341.89	-222.93	40°00'04.829"N	104°40'39.345"W	0.74	
4539.00	8.540	208.660	4507.37	372.46	-354.07	-228.06	40°00'04.709"N	104°40'39.411"W	1.94	
4628.00	8.500	214.680	4595.39	384.23	-365.28	-234.97	40°00'04.598"N	104°40'39.499"W	1.00	
4717.00	8.600	215.960	4683.41	395.64	-376.07	-242.62	40°00'04.492"N	104°40'39.598"W	0.24	
4806.00	8.450	216.510	4771.42	406.92	-386.71	-250.42	40°00'04.386"N	104°40'39.698"W	0.19	
4895.00	8.380	216.700	4859.46	418.01	-397.17	-258.19	40°00'04.283"N	104°40'39.798"W	0.08	
4984.00	8.580	215.280	4947.49	429.25	-407.79	-265.90	40°00'04.178"N	104°40'39.897"W	0.33	
5073.00	8.740	215.240	5035.48	440.82	-418.73	-273.63	40°00'04.070"N	104°40'39.996"W	0.18	
5161.00	8.380	216.040	5122.50	452.09	-429.38	-281.26	40°00'03.965"N	104°40'40.094"W	0.43	
5250.00	8.350	221.460	5210.55	462.84	-439.46	-289.36	40°00'03.865"N	104°40'40.198"W	0.89	

Actual Wellpath Report

DESHA 4-15-1 AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CONFLUENCE RESOURCES	Slot	SLOT#03 DESHA 4-15-1 (635'FSL & 450'FWL, SEC.33)
Area	COLORADO	Well	DESHA 4-15-1
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	DESHA 4-15-1 AWP
Facility	SEC.33-T01N-R65W		

WELLPATH DATA (132 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
5339.00	8.510	225.640	5298.59	473.03	-448.91	-298.35	40°00'03.772"N	104°40'40.314"W	0.71	
5428.00	8.570	221.590	5386.60	483.34	-458.47	-307.46	40°00'03.677"N	104°40'40.431"W	0.68	
5517.00	8.660	216.220	5474.60	494.39	-468.84	-315.82	40°00'03.575"N	104°40'40.538"W	0.91	
5606.00	8.660	211.100	5562.59	506.14	-479.98	-323.24	40°00'03.465"N	104°40'40.634"W	0.87	
5695.00	9.110	213.880	5650.52	518.32	-491.57	-330.63	40°00'03.350"N	104°40'40.728"W	0.70	
5783.00	8.560	214.050	5737.47	530.14	-502.78	-338.18	40°00'03.239"N	104°40'40.825"W	0.63	
5872.00	8.410	214.280	5825.50	541.60	-513.64	-345.55	40°00'03.132"N	104°40'40.920"W	0.17	
5961.00	8.570	216.550	5913.53	552.93	-524.35	-353.17	40°00'03.026"N	104°40'41.018"W	0.42	
6050.00	8.440	216.090	6001.55	564.17	-534.96	-360.96	40°00'02.921"N	104°40'41.118"W	0.16	
6139.00	8.630	213.070	6089.56	575.65	-545.83	-368.45	40°00'02.814"N	104°40'41.215"W	0.55	
6228.00	8.640	215.380	6177.55	587.30	-556.87	-375.97	40°00'02.705"N	104°40'41.311"W	0.39	
6317.00	8.530	215.710	6265.56	598.74	-567.69	-383.69	40°00'02.598"N	104°40'41.410"W	0.14	
6405.00	8.580	204.300	6352.58	610.54	-578.97	-390.20	40°00'02.486"N	104°40'41.494"W	1.93	
6494.00	8.600	197.800	6440.59	623.30	-591.35	-394.97	40°00'02.364"N	104°40'41.555"W	1.09	
6583.00	8.490	202.710	6528.60	636.04	-603.75	-399.54	40°00'02.242"N	104°40'41.614"W	0.83	
6672.00	8.470	205.160	6616.63	648.45	-615.74	-404.86	40°00'02.123"N	104°40'41.682"W	0.41	
6760.00	8.670	207.630	6703.65	660.65	-627.49	-410.69	40°00'02.007"N	104°40'41.757"W	0.48	
6849.00	16.910	184.440	6790.41	679.83	-646.38	-414.82	40°00'01.820"N	104°40'41.810"W	10.73	
6938.00	27.400	186.410	6872.73	713.34	-679.73	-418.11	40°00'01.491"N	104°40'41.853"W	11.81	
7027.00	37.620	191.980	6947.70	760.91	-726.79	-426.06	40°00'01.026"N	104°40'41.955"W	11.95	
7116.00	47.390	189.420	7013.24	820.67	-785.82	-437.09	40°00'00.442"N	104°40'42.096"W	11.15	
7160.00	52.930	186.510	7041.42	854.39	-819.26	-441.73	40°00'00.112"N	104°40'42.156"W	13.57	
7204.00	57.320	185.020	7066.57	890.47	-855.17	-445.34	39°59'59.757"N	104°40'42.203"W	10.36	
7293.00	67.930	177.580	7107.48	969.14	-933.99	-446.89	39°59'58.978"N	104°40'42.222"W	14.03	
7382.00	78.720	179.720	7132.98	1053.75	-1019.10	-444.93	39°59'58.137"N	104°40'42.197"W	12.34	
7471.00	89.410	182.780	7142.18	1141.95	-1107.46	-446.88	39°59'57.264"N	104°40'42.222"W	12.49	
7560.00	91.020	182.270	7141.84	1230.87	-1196.37	-450.80	39°59'56.385"N	104°40'42.272"W	1.90	
7649.00	92.160	180.440	7139.37	1319.65	-1285.30	-452.90	39°59'55.506"N	104°40'42.300"W	2.42	
7738.00	93.080	178.470	7135.30	1408.14	-1374.20	-452.06	39°59'54.628"N	104°40'42.289"W	2.44	
7827.00	94.810	177.460	7129.18	1496.27	-1462.93	-448.90	39°59'53.751"N	104°40'42.248"W	2.25	

Actual Wellpath Report

DESHA 4-15-1 AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CONFLUENCE RESOURCES	Slot	SLOT#03 DESHA 4-15-1 (635'FSL & 450'FWL, SEC.33)
Area	COLORADO	Well	DESHA 4-15-1
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	DESHA 4-15-1 AWP
Facility	SEC.33-T01N-R65W		

WELLPATH DATA (132 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
7916.00	96.570	176.860	7120.36	1584.01	-1551.38	-444.52	39°59'52.877"N	104°40'42.192"W	2.09	
8005.00	96.670	175.950	7110.10	1671.43	-1639.61	-438.97	39°59'52.005"N	104°40'42.120"W	1.02	
8093.00	94.680	175.160	7101.39	1757.81	-1726.91	-432.19	39°59'51.142"N	104°40'42.033"W	2.43	
8182.00	91.690	176.240	7096.45	1845.51	-1815.51	-425.53	39°59'50.267"N	104°40'41.948"W	3.57	
8271.00	89.940	177.180	7095.18	1933.57	-1904.35	-420.42	39°59'49.389"N	104°40'41.882"W	2.23	
8360.00	90.150	178.940	7095.11	2021.92	-1993.30	-417.41	39°59'48.510"N	104°40'41.843"W	1.99	
8448.00	89.880	178.790	7095.09	2109.43	-2081.28	-415.66	39°59'47.640"N	104°40'41.821"W	0.35	
8537.00	89.940	179.610	7095.23	2197.98	-2170.27	-414.42	39°59'46.761"N	104°40'41.805"W	0.92	
8626.00	89.910	181.060	7095.35	2286.68	-2259.27	-414.94	39°59'45.881"N	104°40'41.812"W	1.63	
8715.00	89.880	181.830	7095.51	2375.52	-2348.24	-417.19	39°59'45.002"N	104°40'41.840"W	0.87	
8804.00	89.970	182.790	7095.63	2464.42	-2437.16	-420.77	39°59'44.123"N	104°40'41.886"W	1.08	
8893.00	88.310	181.970	7096.96	2553.32	-2526.07	-424.47	39°59'43.245"N	104°40'41.934"W	2.08	
8982.00	88.650	180.250	7099.32	2642.08	-2615.02	-426.19	39°59'42.365"N	104°40'41.956"W	1.97	
9071.00	88.800	179.200	7101.30	2730.69	-2704.00	-425.76	39°59'41.486"N	104°40'41.951"W	1.19	
9160.00	88.950	180.090	7103.05	2819.28	-2792.98	-425.21	39°59'40.607"N	104°40'41.943"W	1.01	
9248.00	89.570	180.520	7104.19	2906.99	-2880.97	-425.68	39°59'39.737"N	104°40'41.949"W	0.86	
9337.00	89.200	179.970	7105.14	2995.68	-2969.96	-426.06	39°59'38.858"N	104°40'41.954"W	0.74	
9425.00	89.660	179.860	7106.02	3083.33	-3057.96	-425.93	39°59'37.988"N	104°40'41.953"W	0.54	
9514.00	89.510	179.700	7106.66	3171.97	-3146.95	-425.59	39°59'37.109"N	104°40'41.948"W	0.25	
9603.00	89.690	181.120	7107.29	3260.68	-3235.95	-426.23	39°59'36.229"N	104°40'41.956"W	1.61	
9692.00	89.540	185.240	7107.88	3349.62	-3324.79	-431.16	39°59'35.351"N	104°40'42.020"W	4.63	
9781.00	89.690	183.770	7108.48	3438.61	-3413.51	-438.15	39°59'34.475"N	104°40'42.110"W	1.66	
9870.00	89.820	181.350	7108.86	3527.53	-3502.41	-442.13	39°59'33.596"N	104°40'42.161"W	2.72	
9959.00	89.660	179.080	7109.27	3616.21	-3591.40	-442.46	39°59'32.717"N	104°40'42.165"W	2.56	
10047.00	89.720	177.190	7109.74	3703.58	-3679.35	-439.60	39°59'31.847"N	104°40'42.128"W	2.15	
10137.00	89.690	176.430	7110.21	3792.67	-3769.21	-434.59	39°59'30.959"N	104°40'42.064"W	0.85	
10225.00	89.750	174.990	7110.64	3879.53	-3856.96	-428.01	39°59'30.092"N	104°40'41.979"W	1.64	
10314.00	89.600	172.320	7111.14	3966.79	-3945.41	-418.17	39°59'29.218"N	104°40'41.853"W	3.00	
10402.00	89.570	173.770	7111.78	4052.89	-4032.75	-407.52	39°59'28.355"N	104°40'41.716"W	1.65	
10491.00	89.420	176.970	7112.56	4140.63	-4121.45	-400.33	39°59'27.478"N	104°40'41.623"W	3.60	

Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CONFLUENCE RESOURCES	Slot	SLOT#03 DESHA 4-15-1 (635'FSL & 450'FWL, SEC.33)
Area	COLORADO	Well	DESHA 4-15-1
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	DESHA 4-15-1 AWP
Facility	SEC.33-T01N-R65W		

WELLPATH DATA (132 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
10580.00	89.630	181.000	7113.30	4229.12	-4210.41	-398.76	39°59'26.599"N	104°40'41.603"W	4.53	
10669.00	89.630	183.610	7113.88	4318.02	-4299.33	-402.34	39°59'25.721"N	104°40'41.649"W	2.93	
10757.00	89.570	182.400	7114.49	4405.96	-4387.21	-406.95	39°59'24.852"N	104°40'41.708"W	1.38	
10846.00	89.600	181.950	7115.13	4494.86	-4476.14	-410.33	39°59'23.973"N	104°40'41.752"W	0.51	
10935.00	89.570	181.750	7115.78	4583.72	-4565.09	-413.20	39°59'23.094"N	104°40'41.789"W	0.23	
11024.00	89.480	182.510	7116.52	4672.61	-4654.03	-416.51	39°59'22.215"N	104°40'41.831"W	0.86	
11113.00	89.600	182.250	7117.23	4761.52	-4742.95	-420.20	39°59'21.337"N	104°40'41.879"W	0.32	
11202.00	89.720	182.010	7117.76	4850.41	-4831.88	-423.51	39°59'20.458"N	104°40'41.921"W	0.30	
11291.00	89.660	182.250	7118.24	4939.30	-4920.82	-426.82	39°59'19.579"N	104°40'41.964"W	0.28	
11380.00	89.630	181.650	7118.79	5028.17	-5009.77	-429.85	39°59'18.700"N	104°40'42.002"W	0.67	
11469.00	89.690	181.230	7119.32	5117.00	-5098.74	-432.08	39°59'17.821"N	104°40'42.031"W	0.48	LAST BHGE SURVEY
11504.00	89.690	181.230	7119.51	5151.93	-5133.73	-432.84	39°59'17.475"N	104°40'42.041"W	0.00	PROJ TO BIT

HOLE & CASING SECTIONS - Ref Wellbore: DESHA 4-15-1 AWP Ref Wellpath: DESHA 4-15-1 AWP									
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Casing	16.00	1515.00	1499.00	16.00	1514.77	0.00	0.00	-9.57	-2.09

Actual Wellpath Report

DESHA 4-15-1 AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CONFLUENCE RESOURCES	Slot	SLOT#03 DESHA 4-15-1 (635'FSL & 450'FWL, SEC.33)
Area	COLORADO	Well	DESHA 4-15-1
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	DESHA 4-15-1 AWB
Facility	SEC.33-T01N-R65W		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
HALF SECTION 33-T01N-R65W	0.00	0.00	0.00	3230611.41	1244747.81	40°00'08.208"N	104°40'36.480"W	polygon
SEC.04-T01S-R65W	0.00	0.00	0.00	3230611.41	1244747.81	40°00'08.208"N	104°40'36.480"W	polygon
DESHA 4-15-1 BHL ON PLAT (470'FSL & 0'FWL, SEC.04)	7120.00	-5132.80	-445.54	3230213.56	1239611.28	39°59'17.484"N	104°40'42.204"W	point
DESHA 4-15-1 LANDING POINT ON PLAT (470'FNL & 0'FWL, SEC.04)	7120.00	-1103.79	-434.26	3230187.44	1243640.08	39°59'57.300"N	104°40'42.060"W	point

WELLPATH COMPOSITION - Ref Wellbore: DESHA 4-15-1 AWB Ref Wellpath: DESHA 4-15-1 AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	1515.00	BHI NaviTrak (Rotating+Axial Corr)	13 1/2" SURFACE SURVEYS <141-1515>	DESHA 4-15-1 AWB
1515.00	11469.00	BHI AutoTrak Curve (Standard)	8 1/2" MONOBORE SURVEYS <1606-11469>	DESHA 4-15-1 AWB
11469.00	11504.00	Blind Drilling (std)	Projection to bit	DESHA 4-15-1 AWB

Actual Wellpath Report

DESHA 4-15-1 AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CONFLUENCE RESOURCES	Slot	SLOT#03 DESHA 4-15-1 (635'FSL & 450'FWL, SEC.33)
Area	COLORADO	Well	DESHA 4-15-1
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	DESHA 4-15-1 AWP
Facility	SEC.33-T01N-R65W		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
11469.00	89.690	181.230	7119.32	LAST BHGE SURVEY
11504.00	89.690	181.230	7119.51	PROJ TO BIT

Actual Wellpath Report

DESHA 4-15-1 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	CONFLUENCE RESOURCES	Slot	SLOT#03 DESHA 4-15-1 (635'FSL & 450'FWL, SEC.33)
Area	COLORADO	Well	DESHA 4-15-1
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	DESHA 4-15-1 AWB
Facility	SEC.33-T01N-R65W		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 5.1
North Reference	True	User	Bushjamh
Scale	0.999966	Report Generated	8/30/2018 at 12:50:45 PM
Convergence at slot	0.53° East	Database/Source file	Denver/DESHA_4-15-1_AWP.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-349.72	151.28	3230611.41	1244747.81	40°00'08.208"N	104°40'36.480"W
Facility Reference Pt			3230456.90	1245096.09	40°00'11.664"N	104°40'38.424"W
Field Reference Pt			3230456.90	1245096.09	40°00'11.664"N	104°40'38.424"W

WELLPATH DATUM

Calculation method	Minimum curvature	RIG (16') (RKB) to Facility Vertical Datum	5094.00ft
Horizontal Reference Pt	Slot	RIG (16') (RKB) to Mean Sea Level	5094.00ft
Vertical Reference Pt	RIG (16') (RKB)	RIG (16') (RKB) to Mud Line at Slot (SLOT#03 DESHA 4-15-1 (635'FSL & 450'FWL, SEC.33))	5094.00ft
MD Reference Pt	RIG (16') (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	184.96°

Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CONFLUENCE RESOURCES	Slot	SLOT#03 DESHA 4-15-1 (635'FSL & 450'FWL, SEC.33)
Area	COLORADO	Well	DESHA 4-15-1
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	DESHA 4-15-1 AWP
Facility	SEC.33-T01N-R65W		

WELLPATH DATA (132 stations) † = interpolated/extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	56.000	0.00	0.00	0.00	0.00	40°00'08.208"N	104°40'36.480"W	0.00	
16.00	0.000	56.000	16.00	0.00	0.00	0.00	40°00'08.208"N	104°40'36.480"W	0.00	
141.00	0.250	56.000	141.00	-0.17	0.15	0.23	40°00'08.210"N	104°40'36.477"W	0.20	
229.00	0.240	69.880	229.00	-0.37	0.32	0.56	40°00'08.211"N	104°40'36.473"W	0.07	
317.00	0.500	56.900	317.00	-0.69	0.60	1.05	40°00'08.214"N	104°40'36.466"W	0.31	
406.00	0.260	101.640	406.00	-0.90	0.77	1.58	40°00'08.216"N	104°40'36.460"W	0.41	
495.00	0.620	44.720	494.99	-1.25	1.07	2.11	40°00'08.219"N	104°40'36.453"W	0.59	
672.00	1.120	333.050	671.98	-3.45	3.29	2.00	40°00'08.241"N	104°40'36.454"W	0.62	
761.00	0.540	169.760	760.97	-3.79	3.65	1.68	40°00'08.244"N	104°40'36.458"W	1.85	
850.00	1.050	157.880	849.96	-2.66	2.49	2.06	40°00'08.233"N	104°40'36.453"W	0.60	
939.00	1.000	169.320	938.95	-1.18	0.97	2.52	40°00'08.218"N	104°40'36.448"W	0.24	
1028.00	1.110	139.110	1027.93	0.17	-0.45	3.22	40°00'08.204"N	104°40'36.439"W	0.63	
1117.00	1.710	202.440	1116.91	2.03	-2.33	3.28	40°00'08.185"N	104°40'36.438"W	1.76	
1206.00	2.100	204.640	1205.86	4.84	-5.04	2.09	40°00'08.158"N	104°40'36.453"W	0.45	
1294.00	2.060	200.010	1293.80	7.88	-7.99	0.88	40°00'08.129"N	104°40'36.469"W	0.20	
1383.00	0.860	261.620	1382.78	9.58	-9.59	-0.33	40°00'08.113"N	104°40'36.484"W	2.04	
1472.00	0.650	271.880	1471.77	9.76	-9.67	-1.49	40°00'08.112"N	104°40'36.499"W	0.28	
1515.00	0.980	284.110	1514.77	9.72	-9.57	-2.09	40°00'08.113"N	104°40'36.507"W	0.86	
1606.00	1.500	239.820	1605.75	10.28	-9.98	-3.88	40°00'08.109"N	104°40'36.530"W	1.16	
1695.00	6.460	236.940	1694.50	14.04	-13.30	-9.08	40°00'08.077"N	104°40'36.597"W	5.58	
1784.00	8.060	241.230	1782.79	20.58	-19.03	-18.75	40°00'08.020"N	104°40'36.721"W	1.90	
1873.00	8.170	228.220	1870.90	28.65	-26.25	-28.94	40°00'07.949"N	104°40'36.852"W	2.06	
1961.00	8.240	217.150	1958.01	38.55	-35.44	-37.41	40°00'07.858"N	104°40'36.961"W	1.79	
2050.00	8.110	221.470	2046.11	48.99	-45.23	-45.42	40°00'07.761"N	104°40'37.064"W	0.71	
2140.00	8.050	208.990	2135.22	59.85	-55.50	-52.67	40°00'07.660"N	104°40'37.157"W	1.95	
2229.00	7.960	196.090	2223.36	71.59	-66.87	-57.40	40°00'07.547"N	104°40'37.218"W	2.02	
2318.00	7.860	198.320	2311.51	83.55	-78.57	-61.02	40°00'07.432"N	104°40'37.264"W	0.36	
2407.00	7.980	201.380	2399.66	95.40	-90.10	-65.19	40°00'07.318"N	104°40'37.318"W	0.49	
2496.00	7.740	203.630	2487.83	107.01	-101.35	-69.84	40°00'07.206"N	104°40'37.377"W	0.44	
2585.00	7.880	207.680	2576.00	118.31	-112.24	-75.08	40°00'07.099"N	104°40'37.445"W	0.64	

Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CONFLUENCE RESOURCES	Slot	SLOT#03 DESHA 4-15-1 (635'FSL & 450'FWL, SEC.33)
Area	COLORADO	Well	DESHA 4-15-1
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	DESHA 4-15-1 AWP
Facility	SEC.33-T01N-R65W		

WELLPATH DATA (132 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
2673.00	8.110	216.210	2663.15	129.18	-122.59	-81.55	40°00'06.997"N	104°40'37.528"W	1.37	
2762.00	8.250	225.000	2751.25	139.44	-132.17	-89.77	40°00'06.902"N	104°40'37.634"W	1.41	
2851.00	8.430	235.940	2839.31	148.44	-140.34	-99.69	40°00'06.821"N	104°40'37.761"W	1.79	
2940.00	8.590	247.300	2927.34	155.63	-146.56	-111.23	40°00'06.760"N	104°40'37.909"W	1.89	
3028.00	8.580	241.880	3014.35	162.26	-152.19	-123.08	40°00'06.704"N	104°40'38.062"W	0.92	
3117.00	8.600	233.730	3102.36	170.27	-159.26	-134.30	40°00'06.634"N	104°40'38.206"W	1.37	
3206.00	8.640	221.530	3190.36	180.03	-168.20	-144.10	40°00'06.546"N	104°40'38.332"W	2.05	
3295.00	8.610	198.700	3278.38	191.87	-179.52	-150.67	40°00'06.434"N	104°40'38.416"W	3.82	
3384.00	8.600	186.170	3366.39	205.00	-192.44	-153.52	40°00'06.306"N	104°40'38.453"W	2.10	
3473.00	9.030	203.910	3454.35	218.26	-205.45	-157.07	40°00'06.178"N	104°40'38.498"W	3.08	
3561.00	9.710	218.480	3541.19	230.98	-217.57	-164.49	40°00'06.058"N	104°40'38.594"W	2.80	
3650.00	9.620	203.030	3628.94	244.31	-230.29	-172.07	40°00'05.932"N	104°40'38.691"W	2.91	
3739.00	9.630	203.380	3716.69	258.44	-243.97	-177.93	40°00'05.797"N	104°40'38.766"W	0.07	
3828.00	9.670	208.640	3804.43	272.35	-257.36	-184.47	40°00'05.665"N	104°40'38.850"W	0.99	
3916.00	8.630	209.520	3891.31	285.12	-269.59	-191.26	40°00'05.544"N	104°40'38.938"W	1.19	
4005.00	8.540	208.990	3979.31	297.23	-281.18	-197.76	40°00'05.429"N	104°40'39.021"W	0.13	
4095.00	8.500	212.340	4068.32	309.24	-292.65	-204.55	40°00'05.316"N	104°40'39.109"W	0.55	
4184.00	8.600	205.990	4156.33	321.29	-304.19	-210.99	40°00'05.202"N	104°40'39.191"W	1.07	
4272.00	8.560	198.490	4243.35	333.80	-316.31	-215.95	40°00'05.082"N	104°40'39.255"W	1.27	
4361.00	8.550	192.720	4331.36	346.80	-329.05	-219.51	40°00'04.956"N	104°40'39.301"W	0.96	
4450.00	8.630	197.100	4419.37	359.88	-341.89	-222.93	40°00'04.829"N	104°40'39.345"W	0.74	
4539.00	8.540	208.660	4507.37	372.46	-354.07	-228.06	40°00'04.709"N	104°40'39.411"W	1.94	
4628.00	8.500	214.680	4595.39	384.23	-365.28	-234.97	40°00'04.598"N	104°40'39.499"W	1.00	
4717.00	8.600	215.960	4683.41	395.64	-376.07	-242.62	40°00'04.492"N	104°40'39.598"W	0.24	
4806.00	8.450	216.510	4771.42	406.92	-386.71	-250.42	40°00'04.386"N	104°40'39.698"W	0.19	
4895.00	8.380	216.700	4859.46	418.01	-397.17	-258.19	40°00'04.283"N	104°40'39.798"W	0.08	
4984.00	8.580	215.280	4947.49	429.25	-407.79	-265.90	40°00'04.178"N	104°40'39.897"W	0.33	
5073.00	8.740	215.240	5035.48	440.82	-418.73	-273.63	40°00'04.070"N	104°40'39.996"W	0.18	
5161.00	8.380	216.040	5122.50	452.09	-429.38	-281.26	40°00'03.965"N	104°40'40.094"W	0.43	
5250.00	8.350	221.460	5210.55	462.84	-439.46	-289.36	40°00'03.865"N	104°40'40.198"W	0.89	

Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CONFLUENCE RESOURCES	Slot	SLOT#03 DESHA 4-15-1 (635'FSL & 450'FWL, SEC.33)
Area	COLORADO	Well	DESHA 4-15-1
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	DESHA 4-15-1 AWP
Facility	SEC.33-T01N-R65W		

WELLPATH DATA (132 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
5339.00	8.510	225.640	5298.59	473.03	-448.91	-298.35	40°00'03.772"N	104°40'40.314"W	0.71	
5428.00	8.570	221.590	5386.60	483.34	-458.47	-307.46	40°00'03.677"N	104°40'40.431"W	0.68	
5517.00	8.660	216.220	5474.60	494.39	-468.84	-315.82	40°00'03.575"N	104°40'40.538"W	0.91	
5606.00	8.660	211.100	5562.59	506.14	-479.98	-323.24	40°00'03.465"N	104°40'40.634"W	0.87	
5695.00	9.110	213.880	5650.52	518.32	-491.57	-330.63	40°00'03.350"N	104°40'40.728"W	0.70	
5783.00	8.560	214.050	5737.47	530.14	-502.78	-338.18	40°00'03.239"N	104°40'40.825"W	0.63	
5872.00	8.410	214.280	5825.50	541.60	-513.64	-345.55	40°00'03.132"N	104°40'40.920"W	0.17	
5961.00	8.570	216.550	5913.53	552.93	-524.35	-353.17	40°00'03.026"N	104°40'41.018"W	0.42	
6050.00	8.440	216.090	6001.55	564.17	-534.96	-360.96	40°00'02.921"N	104°40'41.118"W	0.16	
6139.00	8.630	213.070	6089.56	575.65	-545.83	-368.45	40°00'02.814"N	104°40'41.215"W	0.55	
6228.00	8.640	215.380	6177.55	587.30	-556.87	-375.97	40°00'02.705"N	104°40'41.311"W	0.39	
6317.00	8.530	215.710	6265.56	598.74	-567.69	-383.69	40°00'02.598"N	104°40'41.410"W	0.14	
6405.00	8.580	204.300	6352.58	610.54	-578.97	-390.20	40°00'02.486"N	104°40'41.494"W	1.93	
6494.00	8.600	197.800	6440.59	623.30	-591.35	-394.97	40°00'02.364"N	104°40'41.555"W	1.09	
6583.00	8.490	202.710	6528.60	636.04	-603.75	-399.54	40°00'02.242"N	104°40'41.614"W	0.83	
6672.00	8.470	205.160	6616.63	648.45	-615.74	-404.86	40°00'02.123"N	104°40'41.682"W	0.41	
6760.00	8.670	207.630	6703.65	660.65	-627.49	-410.69	40°00'02.007"N	104°40'41.757"W	0.48	
6849.00	16.910	184.440	6790.41	679.83	-646.38	-414.82	40°00'01.820"N	104°40'41.810"W	10.73	
6938.00	27.400	186.410	6872.73	713.34	-679.73	-418.11	40°00'01.491"N	104°40'41.853"W	11.81	
7027.00	37.620	191.980	6947.70	760.91	-726.79	-426.06	40°00'01.026"N	104°40'41.955"W	11.95	
7116.00	47.390	189.420	7013.24	820.67	-785.82	-437.09	40°00'00.442"N	104°40'42.096"W	11.15	
7160.00	52.930	186.510	7041.42	854.39	-819.26	-441.73	40°00'00.112"N	104°40'42.156"W	13.57	
7204.00	57.320	185.020	7066.57	890.47	-855.17	-445.34	39°59'59.757"N	104°40'42.203"W	10.36	
7293.00	67.930	177.580	7107.48	969.14	-933.99	-446.89	39°59'58.978"N	104°40'42.222"W	14.03	
7382.00	78.720	179.720	7132.98	1053.75	-1019.10	-444.93	39°59'58.137"N	104°40'42.197"W	12.34	
7471.00	89.410	182.780	7142.18	1141.95	-1107.46	-446.88	39°59'57.264"N	104°40'42.222"W	12.49	
7560.00	91.020	182.270	7141.84	1230.87	-1196.37	-450.80	39°59'56.385"N	104°40'42.272"W	1.90	
7649.00	92.160	180.440	7139.37	1319.65	-1285.30	-452.90	39°59'55.506"N	104°40'42.300"W	2.42	
7738.00	93.080	178.470	7135.30	1408.14	-1374.20	-452.06	39°59'54.628"N	104°40'42.289"W	2.44	
7827.00	94.810	177.460	7129.18	1496.27	-1462.93	-448.90	39°59'53.751"N	104°40'42.248"W	2.25	

Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CONFLUENCE RESOURCES	Slot	SLOT#03 DESHA 4-15-1 (635'FSL & 450'FWL, SEC.33)
Area	COLORADO	Well	DESHA 4-15-1
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	DESHA 4-15-1 AWP
Facility	SEC.33-T01N-R65W		

WELLPATH DATA (132 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
7916.00	96.570	176.860	7120.36	1584.01	-1551.38	-444.52	39°59'52.877"N	104°40'42.192"W	2.09	
8005.00	96.670	175.950	7110.10	1671.43	-1639.61	-438.97	39°59'52.005"N	104°40'42.120"W	1.02	
8093.00	94.680	175.160	7101.39	1757.81	-1726.91	-432.19	39°59'51.142"N	104°40'42.033"W	2.43	
8182.00	91.690	176.240	7096.45	1845.51	-1815.51	-425.53	39°59'50.267"N	104°40'41.948"W	3.57	
8271.00	89.940	177.180	7095.18	1933.57	-1904.35	-420.42	39°59'49.389"N	104°40'41.882"W	2.23	
8360.00	90.150	178.940	7095.11	2021.92	-1993.30	-417.41	39°59'48.510"N	104°40'41.843"W	1.99	
8448.00	89.880	178.790	7095.09	2109.43	-2081.28	-415.66	39°59'47.640"N	104°40'41.821"W	0.35	
8537.00	89.940	179.610	7095.23	2197.98	-2170.27	-414.42	39°59'46.761"N	104°40'41.805"W	0.92	
8626.00	89.910	181.060	7095.35	2286.68	-2259.27	-414.94	39°59'45.881"N	104°40'41.812"W	1.63	
8715.00	89.880	181.830	7095.51	2375.52	-2348.24	-417.19	39°59'45.002"N	104°40'41.840"W	0.87	
8804.00	89.970	182.790	7095.63	2464.42	-2437.16	-420.77	39°59'44.123"N	104°40'41.886"W	1.08	
8893.00	88.310	181.970	7096.96	2553.32	-2526.07	-424.47	39°59'43.245"N	104°40'41.934"W	2.08	
8982.00	88.650	180.250	7099.32	2642.08	-2615.02	-426.19	39°59'42.365"N	104°40'41.956"W	1.97	
9071.00	88.800	179.200	7101.30	2730.69	-2704.00	-425.76	39°59'41.486"N	104°40'41.951"W	1.19	
9160.00	88.950	180.090	7103.05	2819.28	-2792.98	-425.21	39°59'40.607"N	104°40'41.943"W	1.01	
9248.00	89.570	180.520	7104.19	2906.99	-2880.97	-425.68	39°59'39.737"N	104°40'41.949"W	0.86	
9337.00	89.200	179.970	7105.14	2995.68	-2969.96	-426.06	39°59'38.858"N	104°40'41.954"W	0.74	
9425.00	89.660	179.860	7106.02	3083.33	-3057.96	-425.93	39°59'37.988"N	104°40'41.953"W	0.54	
9514.00	89.510	179.700	7106.66	3171.97	-3146.95	-425.59	39°59'37.109"N	104°40'41.948"W	0.25	
9603.00	89.690	181.120	7107.29	3260.68	-3235.95	-426.23	39°59'36.229"N	104°40'41.956"W	1.61	
9692.00	89.540	185.240	7107.88	3349.62	-3324.79	-431.16	39°59'35.351"N	104°40'42.020"W	4.63	
9781.00	89.690	183.770	7108.48	3438.61	-3413.51	-438.15	39°59'34.475"N	104°40'42.110"W	1.66	
9870.00	89.820	181.350	7108.86	3527.53	-3502.41	-442.13	39°59'33.596"N	104°40'42.161"W	2.72	
9959.00	89.660	179.080	7109.27	3616.21	-3591.40	-442.46	39°59'32.717"N	104°40'42.165"W	2.56	
10047.00	89.720	177.190	7109.74	3703.58	-3679.35	-439.60	39°59'31.847"N	104°40'42.128"W	2.15	
10137.00	89.690	176.430	7110.21	3792.67	-3769.21	-434.59	39°59'30.959"N	104°40'42.064"W	0.85	
10225.00	89.750	174.990	7110.64	3879.53	-3856.96	-428.01	39°59'30.092"N	104°40'41.979"W	1.64	
10314.00	89.600	172.320	7111.14	3966.79	-3945.41	-418.17	39°59'29.218"N	104°40'41.853"W	3.00	
10402.00	89.570	173.770	7111.78	4052.89	-4032.75	-407.52	39°59'28.355"N	104°40'41.716"W	1.65	
10491.00	89.420	176.970	7112.56	4140.63	-4121.45	-400.33	39°59'27.478"N	104°40'41.623"W	3.60	

Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	CONFLUENCE RESOURCES	Slot	SLOT#03 DESHA 4-15-1 (635'FSL & 450'FWL, SEC.33)
Area	COLORADO	Well	DESHA 4-15-1
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	DESHA 4-15-1 AWP
Facility	SEC.33-T01N-R65W		

WELLPATH DATA (132 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
10580.00	89.630	181.000	7113.30	4229.12	-4210.41	-398.76	39°59'26.599"N	104°40'41.603"W	4.53	
10669.00	89.630	183.610	7113.88	4318.02	-4299.33	-402.34	39°59'25.721"N	104°40'41.649"W	2.93	
10757.00	89.570	182.400	7114.49	4405.96	-4387.21	-406.95	39°59'24.852"N	104°40'41.708"W	1.38	
10846.00	89.600	181.950	7115.13	4494.86	-4476.14	-410.33	39°59'23.973"N	104°40'41.752"W	0.51	
10935.00	89.570	181.750	7115.78	4583.72	-4565.09	-413.20	39°59'23.094"N	104°40'41.789"W	0.23	
11024.00	89.480	182.510	7116.52	4672.61	-4654.03	-416.51	39°59'22.215"N	104°40'41.831"W	0.86	
11113.00	89.600	182.250	7117.23	4761.52	-4742.95	-420.20	39°59'21.337"N	104°40'41.879"W	0.32	
11202.00	89.720	182.010	7117.76	4850.41	-4831.88	-423.51	39°59'20.458"N	104°40'41.921"W	0.30	
11291.00	89.660	182.250	7118.24	4939.30	-4920.82	-426.82	39°59'19.579"N	104°40'41.964"W	0.28	
11380.00	89.630	181.650	7118.79	5028.17	-5009.77	-429.85	39°59'18.700"N	104°40'42.002"W	0.67	
11469.00	89.690	181.230	7119.32	5117.00	-5098.74	-432.08	39°59'17.821"N	104°40'42.031"W	0.48	LAST BHGE SURVEY
11504.00	89.690	181.230	7119.51	5151.93	-5133.73	-432.84	39°59'17.475"N	104°40'42.041"W	0.00	PROJ TO BIT

HOLE & CASING SECTIONS - Ref Wellbore: DESHA 4-15-1 AWP Ref Wellpath: DESHA 4-15-1 AWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Casing	16.00	1515.00	1499.00	16.00	1514.77	0.00	0.00	-9.57	-2.09

Actual Wellpath Report

DESHA 4-15-1 AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CONFLUENCE RESOURCES	Slot	SLOT#03 DESHA 4-15-1 (635'FSL & 450'FWL, SEC.33)
Area	COLORADO	Well	DESHA 4-15-1
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	DESHA 4-15-1 AWB
Facility	SEC.33-T01N-R65W		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
HALF SECTION 33-T01N-R65W	0.00	0.00	0.00	3230611.41	1244747.81	40°00'08.208"N	104°40'36.480"W	polygon
SEC.04-T01S-R65W	0.00	0.00	0.00	3230611.41	1244747.81	40°00'08.208"N	104°40'36.480"W	polygon
DESHA 4-15-1 BHL ON PLAT (470'FSL & 0'FWL, SEC.04)	7120.00	-5132.80	-445.54	3230213.56	1239611.28	39°59'17.484"N	104°40'42.204"W	point
DESHA 4-15-1 LANDING POINT ON PLAT (470'FNL & 0'FWL, SEC.04)	7120.00	-1103.79	-434.26	3230187.44	1243640.08	39°59'57.300"N	104°40'42.060"W	point

WELLPATH COMPOSITION - Ref Wellbore: DESHA 4-15-1 AWB Ref Wellpath: DESHA 4-15-1 AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	1515.00	BHI NaviTrak (Rotating+Axial Corr)	13 1/2" SURFACE SURVEYS <141-1515>	DESHA 4-15-1 AWB
1515.00	11469.00	BHI AutoTrak Curve (Standard)	8 1/2" MONOBORE SURVEYS <1606-11469>	DESHA 4-15-1 AWB
11469.00	11504.00	Blind Drilling (std)	Projection to bit	DESHA 4-15-1 AWB

Actual Wellpath Report

DESHA 4-15-1 AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CONFLUENCE RESOURCES	Slot	SLOT#03 DESHA 4-15-1 (635'FSL & 450'FWL, SEC.33)
Area	COLORADO	Well	DESHA 4-15-1
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	DESHA 4-15-1 AWP
Facility	SEC.33-T01N-R65W		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
11469.00	89.690	181.230	7119.32	LAST BHGE SURVEY
11504.00	89.690	181.230	7119.51	PROJ TO BIT