

CONFLUENCE RESOURCES

Location:	COLORADO	Slot:	SLOT#17 Desha 4-11-2L (785°FSL & 450°FWL,SEC.33)
Field:	WELD COUNTY (NAD83, TRUE NORTH)	Well:	Desha 4-11-2L
Facility:	SEC.33-T01N-R65W	Wellbore:	Desha 4-11-2L PWB
Plot reference wellpath is Desha 4-11-2L PWP Rev-A.0		Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	
True vertical depths are referenced to Rig (20.5) (RT)		North Reference: True north	
Reference wellpath measured depths are referenced to Rig (20.5) (RT)		Scale: True distance	
Rig (20.5) to Mean Sea Level: 5098.5 feet		Coordinates are in feet referenced to Slot	
Mean Sea Level to Mud line (At Slot: SLOT#17 Desha 4-11-2L (785°FSL & 450°FWL,SEC.33)): 0 feet		Depths are in feet	
Offset wellpath MDs are referenced to each path's default MD datum		Created by: painsett on 2020-10-07; Database: WA_Deriver	

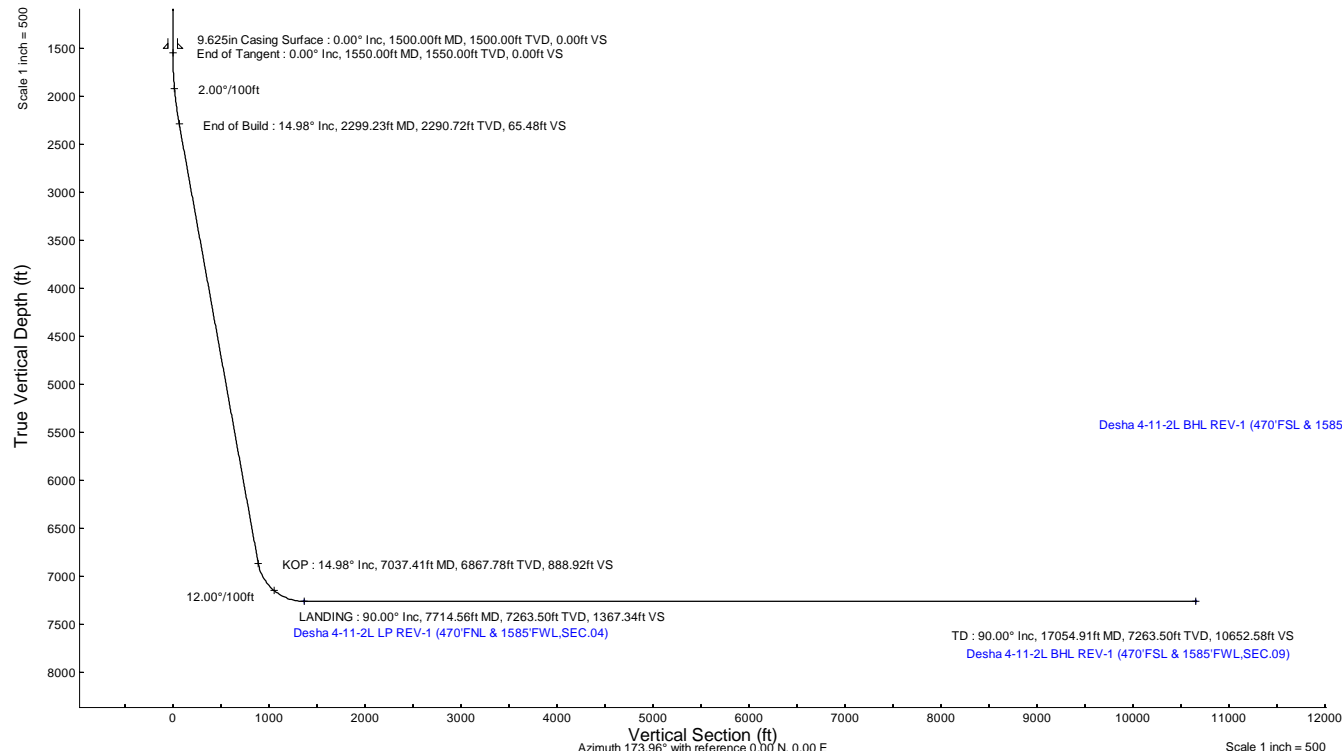
Location Information					
Facility Name		Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
SEC.33-T01N-R65W		3230456.897	1245096.090	40°00'11.6640"N	104°40'38.4240"W
Slot		Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
SLOT#17 Desha 4-11-2L (785°FSL & 450°FWL,SEC.33)		-200.36	148.48	3230607.225	1244897.126
Rig (20.5) (RT) to Mud line (At Slot: SLOT#17 Desha 4-11-2L (785°FSL & 450°FWL,SEC.33))				5098.5R	
Mean Sea Level to Mud line (At Slot: SLOT#17 Desha 4-11-2L (785°FSL & 450°FWL,SEC.33))				0R	
Rig (20.5) (RT) to Mean Sea Level				5098.5R	

Survey Program					
Start MD (ft)	End MD (ft)	Tool	Model	Log Name/Comment	Wellbore
20.50	1500.00	BH NavTrak (2019)	BH NavTrak (2019) (Axial)		Desha 4-11-2L PWB
1500.00	17096.63	BH AutoTrak Curve/Press (2019)	BH AutoTrak Curve/Press (2019) (Short spacing)		Desha 4-11-2L PWB

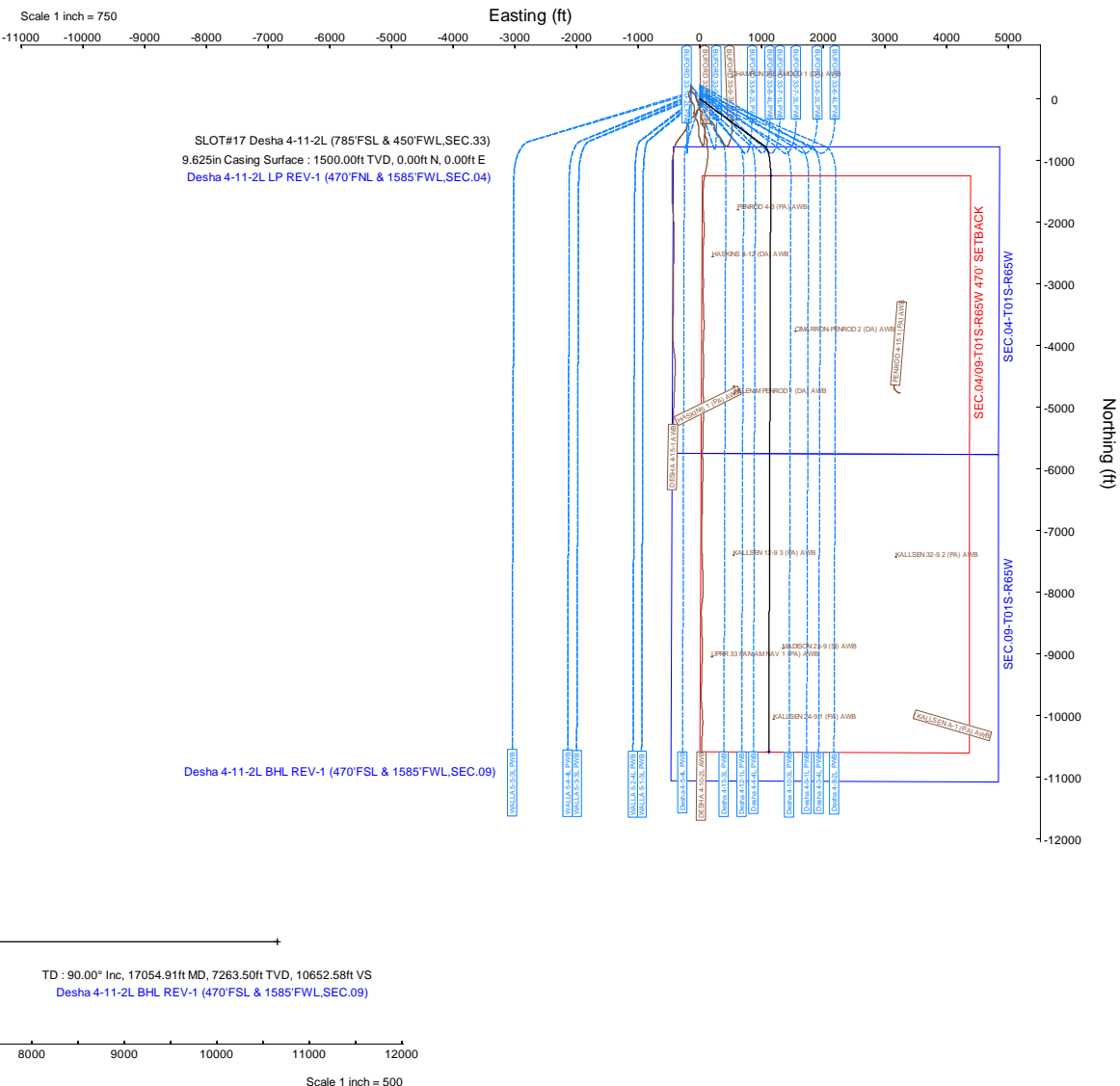
Hole and Casing Sections									
Name	Start MD (ft)	End MD (ft)	Interval (ft)	Start TVD (ft)	End TVD (ft)	Start Local N (ft)	Start Local E (ft)	End Local N (ft)	End Local E (ft)
9.625in Casing Surface	20.50	1500.00	1479.50	20.50	1500.00	0.00	0.00	0.00	0.00

Bottom Hole Location									
MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
17054.91	90.000	180.186	7263.50	-10593.43	1121.09	3231826.56	1234314.94	39°58'24.9960"N	104°40'22.1160"W

Targets									
Name	MD (ft)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
SEC.04-T01S-R65W	N/A	0.00	-98.36	2.80	3230610.94	1244798.80	40°00'8.7120"N	104°40'36.4800"W	
SEC.04-09-T01S-R65W 470' SETBACK	N/A	0.00	-98.36	2.80	3230610.94	1244798.80	40°00'8.7120"N	104°40'36.4800"W	
SEC.09-T01S-R65W	N/A	0.00	-98.36	2.80	3230610.94	1244798.80	40°00'8.7120"N	104°40'36.4800"W	
Desha 4-11-2L BHL REV-1 (470°FSL & 1585°FWL,SEC.09)	17054.91	7263.50	-10593.43	1121.09	3231826.56	1234314.94	39°58'24.9960"N	104°40'22.1160"W	
Desha 4-11-2L LP REV-1 (470°FSL & 1585°FWL,SEC.04)	7714.56	7263.50	-1253.12	1151.49	3231770.25	1243854.79	39°59'57.3000"N	104°40'21.7200"W	



Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	20.50	0.000	126.191	20.50	0.00	0.00	0.00	0.00
End of Tangent	1550.00	0.000	126.191	1550.00	0.00	0.00	0.00	0.00
End of Build	2299.23	14.985	126.191	2290.72	-57.52	78.62	2.00	65.48
KOP	7037.41	14.985	126.191	6867.78	-780.93	1067.34	0.00	888.92
LANDING	7714.56	90.000	180.186	7263.50	-1253.12	1151.49	12.00	1367.34
TD	17054.91	90.000	180.186	7263.50	-10593.43	1121.09	0.00	10652.58





Planned Wellpath Report

Desha 4-11-2L PWP Rev-A.0

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REFERENCE WELLPATH IDENTIFICATION

Operator	CONFLUENCE RESOURCES	Well	Desha 4-11-2L
Field	WELD COUNTY (NAD83, TRUE NORTH)	API/Legal	
Facility	SEC.33-T01N-R65W	Wellbore	Desha 4-11-2L PWB
Slot	SLOT#17 Desha 4-11-2L (785'FSL & 450'FWL,SEC.33)		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 6.0
North Reference	True	User	Painsetr
Scale	0.999966	Report Generated	10/7/2020 at 10:56:01 AM
Convergence at slot	0.53° East	Database	WA_Denver

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-200.36	148.48	3230607.23	1244897.13	40.0026900°	-104.6768100°
Facility Reference Pt			3230456.90	1245096.09	40.0032400°	-104.6773400°
Field Reference Pt			3230456.90	1245096.09	40.0032400°	-104.6773400°

WELLPATH DATUM

Calculation method	Minimum curvature	Rig (20.5') (RT) to Facility Vertical Datum	5098.50ft
Horizontal Reference Pt	Slot	Rig (20.5') (RT) to Mean Sea Level	5098.50ft
Vertical Reference Pt	Rig (20.5') (RT)	Rig (20.5') (RT) to Mud Line at Slot (SLOT#17 Desha 4-11-2L (785'FSL & 450'FWL,SEC.33))	5098.50ft
MD Reference Pt	Rig (20.5') (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	173.96°

Planned Wellpath Report

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Field	WELD COUNTY (NAD83, TRUE NORTH)	API/Legal	
Facility	SEC.33-T01N-R65W	Wellbore	Desha 4-11-2L PWB
Slot	SLOT#17 Desha 4-11-2L (785'FSL & 450'FWL,SEC.33)		

WELLPATH DATA (177 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	126.191	0.00	0.00	0.00	0.00	3230607.23	1244897.13	40.0026900	-104.6768100	0.00	
20.50	0.000	126.191	20.50	0.00	0.00	0.00	3230607.23	1244897.13	40.0026900	-104.6768100	0.00	Tie On
120.50†	0.000	126.191	120.50	0.00	0.00	0.00	3230607.23	1244897.13	40.0026900	-104.6768100	0.00	
220.50†	0.000	126.191	220.50	0.00	0.00	0.00	3230607.23	1244897.13	40.0026900	-104.6768100	0.00	
320.50†	0.000	126.191	320.50	0.00	0.00	0.00	3230607.23	1244897.13	40.0026900	-104.6768100	0.00	
420.50†	0.000	126.191	420.50	0.00	0.00	0.00	3230607.23	1244897.13	40.0026900	-104.6768100	0.00	
520.50†	0.000	126.191	520.50	0.00	0.00	0.00	3230607.23	1244897.13	40.0026900	-104.6768100	0.00	
620.50†	0.000	126.191	620.50	0.00	0.00	0.00	3230607.23	1244897.13	40.0026900	-104.6768100	0.00	
720.50†	0.000	126.191	720.50	0.00	0.00	0.00	3230607.23	1244897.13	40.0026900	-104.6768100	0.00	
820.50†	0.000	126.191	820.50	0.00	0.00	0.00	3230607.23	1244897.13	40.0026900	-104.6768100	0.00	
920.50†	0.000	126.191	920.50	0.00	0.00	0.00	3230607.23	1244897.13	40.0026900	-104.6768100	0.00	
1020.50†	0.000	126.191	1020.50	0.00	0.00	0.00	3230607.23	1244897.13	40.0026900	-104.6768100	0.00	
1120.50†	0.000	126.191	1120.50	0.00	0.00	0.00	3230607.23	1244897.13	40.0026900	-104.6768100	0.00	
1220.50†	0.000	126.191	1220.50	0.00	0.00	0.00	3230607.23	1244897.13	40.0026900	-104.6768100	0.00	
1320.50†	0.000	126.191	1320.50	0.00	0.00	0.00	3230607.23	1244897.13	40.0026900	-104.6768100	0.00	
1420.50†	0.000	126.191	1420.50	0.00	0.00	0.00	3230607.23	1244897.13	40.0026900	-104.6768100	0.00	
1520.50†	0.000	126.191	1520.50	0.00	0.00	0.00	3230607.23	1244897.13	40.0026900	-104.6768100	0.00	
1550.00	0.000	126.191	1550.00	0.00	0.00	0.00	3230607.23	1244897.13	40.0026900	-104.6768100	0.00	End of Tangent
1620.50†	1.410	126.191	1620.49	0.58	-0.51	0.70	3230607.93	1244896.62	40.0026886	-104.6768075	2.00	
1720.50†	3.410	126.191	1720.40	3.41	-3.00	4.09	3230611.35	1244894.17	40.0026818	-104.6767954	2.00	
1820.50†	5.410	126.191	1820.10	8.58	-7.54	10.30	3230617.59	1244889.69	40.0026693	-104.6767732	2.00	
1920.50†	7.410	126.191	1919.47	16.08	-14.13	19.31	3230626.66	1244883.18	40.0026512	-104.6767411	2.00	
2020.50†	9.410	126.191	2018.39	25.91	-22.76	31.11	3230638.55	1244874.65	40.0026275	-104.6766989	2.00	
2120.50†	11.410	126.191	2116.74	38.06	-33.43	45.69	3230653.23	1244864.12	40.0025982	-104.6766469	2.00	
2220.50†	13.410	126.191	2214.40	52.50	-46.12	63.04	3230670.68	1244851.59	40.0025634	-104.6765850	2.00	
2299.23	14.985	126.191	2290.72	65.48	-57.52	78.62	3230686.37	1244840.34	40.0025321	-104.6765294	2.00	End of Build
2320.50†	14.985	126.191	2311.26	69.17	-60.77	83.06	3230690.84	1244837.13	40.0025232	-104.6765135	0.00	
2420.50†	14.985	126.191	2407.86	86.55	-76.04	103.92	3230711.85	1244822.06	40.0024813	-104.6764390	0.00	
2520.50†	14.985	126.191	2504.46	103.93	-91.31	124.79	3230732.85	1244806.99	40.0024394	-104.6763646	0.00	
2620.50†	14.985	126.191	2601.06	121.31	-106.57	145.66	3230753.86	1244791.91	40.0023974	-104.6762901	0.00	
2720.50†	14.985	126.191	2697.66	138.69	-121.84	166.53	3230774.87	1244776.84	40.0023555	-104.6762156	0.00	
2820.50†	14.985	126.191	2794.26	156.07	-137.11	187.39	3230795.88	1244761.77	40.0023136	-104.6761411	0.00	
2920.50†	14.985	126.191	2890.86	173.45	-152.38	208.26	3230816.88	1244746.70	40.0022717	-104.6760666	0.00	
3020.50†	14.985	126.191	2987.46	190.83	-167.64	229.13	3230837.89	1244731.62	40.0022298	-104.6759921	0.00	
3120.50†	14.985	126.191	3084.06	208.20	-182.91	249.99	3230858.90	1244716.55	40.0021879	-104.6759177	0.00	
3220.50†	14.985	126.191	3180.66	225.58	-198.18	270.86	3230879.90	1244701.48	40.0021460	-104.6758432	0.00	
3320.50†	14.985	126.191	3277.26	242.96	-213.45	291.73	3230900.91	1244686.40	40.0021041	-104.6757687	0.00	
3420.50†	14.985	126.191	3373.86	260.34	-228.71	312.60	3230921.92	1244671.33	40.0020622	-104.6756942	0.00	
3520.50†	14.985	126.191	3470.46	277.72	-243.98	333.46	3230942.93	1244656.26	40.0020202	-104.6756197	0.00	
3620.50†	14.985	126.191	3567.06	295.10	-259.25	354.33	3230963.93	1244641.19	40.0019783	-104.6755452	0.00	
3720.50†	14.985	126.191	3663.66	312.48	-274.52	375.20	3230984.94	1244626.11	40.0019364	-104.6754708	0.00	
3820.50†	14.985	126.191	3760.26	329.86	-289.78	396.06	3231005.95	1244611.04	40.0018945	-104.6753963	0.00	
3920.50†	14.985	126.191	3856.86	347.24	-305.05	416.93	3231026.95	1244595.97	40.0018526	-104.6753218	0.00	
4020.50†	14.985	126.191	3953.46	364.61	-320.32	437.80	3231047.96	1244580.90	40.0018107	-104.6752473	0.00	
4120.50†	14.985	126.191	4050.06	381.99	-335.59	458.66	3231068.97	1244565.82	40.0017688	-104.6751728	0.00	

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Slot	SLOT#17 Desha 4-11-2L (785'FSL & 450'FWL,SEC.33)		

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MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4220.50†	14.985	126.191	4146.66	399.37	-350.85	479.53	3231089.98	1244550.75	40.0017269	-104.6750983	0.00	
4320.50†	14.985	126.191	4243.26	416.75	-366.12	500.40	3231110.98	1244535.68	40.0016850	-104.6750239	0.00	
4420.50†	14.985	126.191	4339.86	434.13	-381.39	521.27	3231131.99	1244520.61	40.0016430	-104.6749494	0.00	
4520.50†	14.985	126.191	4436.45	451.51	-396.66	542.13	3231153.00	1244505.53	40.0016011	-104.6748749	0.00	
4620.50†	14.985	126.191	4533.05	468.89	-411.92	563.00	3231174.00	1244490.46	40.0015592	-104.6748004	0.00	
4720.50†	14.985	126.191	4629.65	486.27	-427.19	583.87	3231195.01	1244475.39	40.0015173	-104.6747259	0.00	
4820.50†	14.985	126.191	4726.25	503.64	-442.46	604.73	3231216.02	1244460.32	40.0014754	-104.6746515	0.00	
4920.50†	14.985	126.191	4822.85	521.02	-457.73	625.60	3231237.03	1244445.24	40.0014335	-104.6745770	0.00	
5020.50†	14.985	126.191	4919.45	538.40	-472.99	646.47	3231258.03	1244430.17	40.0013916	-104.6745025	0.00	
5120.50†	14.985	126.191	5016.05	555.78	-488.26	667.33	3231279.04	1244415.10	40.0013497	-104.6744280	0.00	
5220.50†	14.985	126.191	5112.65	573.16	-503.53	688.20	3231300.05	1244400.02	40.0013077	-104.6743535	0.00	
5320.50†	14.985	126.191	5209.25	590.54	-518.80	709.07	3231321.05	1244384.95	40.0012658	-104.6742790	0.00	
5420.50†	14.985	126.191	5305.85	607.92	-534.06	729.94	3231342.06	1244369.88	40.0012239	-104.6742046	0.00	
5520.50†	14.985	126.191	5402.45	625.30	-549.33	750.80	3231363.07	1244354.81	40.0011820	-104.6741301	0.00	
5620.50†	14.985	126.191	5499.05	642.68	-564.60	771.67	3231384.07	1244339.73	40.0011401	-104.6740556	0.00	
5720.50†	14.985	126.191	5595.65	660.05	-579.87	792.54	3231405.08	1244324.66	40.0010982	-104.6739811	0.00	
5820.50†	14.985	126.191	5692.25	677.43	-595.13	813.40	3231426.09	1244309.59	40.0010563	-104.6739066	0.00	
5920.50†	14.985	126.191	5788.85	694.81	-610.40	834.27	3231447.10	1244294.52	40.0010144	-104.6738322	0.00	
6020.50†	14.985	126.191	5885.45	712.19	-625.67	855.14	3231468.10	1244279.44	40.0009724	-104.6737577	0.00	
6120.50†	14.985	126.191	5982.05	729.57	-640.94	876.00	3231489.11	1244264.37	40.0009305	-104.6736832	0.00	
6220.50†	14.985	126.191	6078.65	746.95	-656.20	896.87	3231510.12	1244249.30	40.0008886	-104.6736087	0.00	
6320.50†	14.985	126.191	6175.25	764.33	-671.47	917.74	3231531.12	1244234.23	40.0008467	-104.6735342	0.00	
6420.50†	14.985	126.191	6271.85	781.71	-686.74	938.61	3231552.13	1244219.15	40.0008048	-104.6734598	0.00	
6520.50†	14.985	126.191	6368.45	799.08	-702.01	959.47	3231573.14	1244204.08	40.0007629	-104.6733853	0.00	
6620.50†	14.985	126.191	6465.04	816.46	-717.27	980.34	3231594.15	1244189.01	40.0007210	-104.6733108	0.00	
6720.50†	14.985	126.191	6561.64	833.84	-732.54	1001.21	3231615.15	1244173.93	40.0006791	-104.6732363	0.00	
6820.50†	14.985	126.191	6658.24	851.22	-747.81	1022.07	3231636.16	1244158.86	40.0006371	-104.6731618	0.00	
6920.50†	14.985	126.191	6754.84	868.60	-763.08	1042.94	3231657.17	1244143.79	40.0005952	-104.6730874	0.00	
7020.50†	14.985	126.191	6851.44	885.98	-778.35	1063.81	3231678.17	1244128.72	40.0005533	-104.6730129	0.00	
7037.41	14.985	126.191	6867.78	888.92	-780.93	1067.34	3231681.73	1244126.17	40.0005462	-104.6730003	0.00	KOP
7120.50†	22.228	148.192	6946.57	910.35	-800.68	1084.33	3231698.90	1244106.58	40.0004920	-104.6729396	12.00	
7220.50†	32.832	160.579	7035.19	953.91	-842.47	1103.39	3231718.34	1244064.97	40.0003773	-104.6728716	12.00	
7320.50†	44.101	167.276	7113.39	1015.07	-902.20	1120.12	3231735.64	1244005.40	40.0002133	-104.6728119	12.00	
7420.50†	55.627	171.669	7177.76	1091.14	-977.25	1133.82	3231750.03	1243930.48	40.0000073	-104.6727630	12.00	
7520.50†	67.271	174.982	7225.49	1178.81	-1064.34	1143.87	3231760.88	1243843.49	39.9997682	-104.6727272	12.00	
7620.50†	78.972	177.768	7254.48	1274.24	-1159.67	1149.84	3231767.73	1243748.22	39.9995065	-104.6727059	12.00	
7714.56	90.000	180.186	7263.50†	1367.34	-1253.12	1151.49	3231770.25	1243654.79	39.9992500	-104.6727000	12.00	LANDING
7720.50†	90.000	180.186	7263.50	1373.25	-1259.07	1151.47	3231770.29	1243648.85	39.9992337	-104.6727001	0.00	
7820.50†	90.000	180.186	7263.50	1472.66	-1359.06	1151.14	3231770.89	1243548.85	39.9989592	-104.6727012	0.00	
7920.50†	90.000	180.186	7263.50	1572.07	-1459.06	1150.81	3231771.49	1243448.86	39.9986847	-104.6727024	0.00	
8020.50†	90.000	180.186	7263.50	1671.48	-1559.06	1150.49	3231772.10	1243348.86	39.9984102	-104.6727036	0.00	
8120.50†	90.000	180.186	7263.50	1770.89	-1659.06	1150.16	3231772.70	1243248.87	39.9981357	-104.6727048	0.00	
8220.50†	90.000	180.186	7263.50	1870.30	-1759.06	1149.84	3231773.30	1243148.88	39.9978611	-104.6727060	0.00	
8320.50†	90.000	180.186	7263.50	1969.71	-1859.06	1149.51	3231773.90	1243048.88	39.9975866	-104.6727071	0.00	
8420.50†	90.000	180.186	7263.50	2069.12	-1959.06	1149.19	3231774.51	1242948.89	39.9973121	-104.6727083	0.00	

Planned Wellpath Report

Desha 4-11-2L PWP Rev-A.0

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REFERENCE WELLPATH IDENTIFICATION

Operator	CONFLUENCE RESOURCES	Well	Desha 4-11-2L
Field	WELD COUNTY (NAD83, TRUE NORTH)	API/Legal	
Facility	SEC.33-T01N-R65W	Wellbore	Desha 4-11-2L PWB
Slot	SLOT#17 Desha 4-11-2L (785'FSL & 450'FWL,SEC.33)		

WELLPATH DATA (177 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8520.50†	90.000	180.186	7263.50	2168.53	-2059.06	1148.86	3231775.11	1242848.89	39.9970376	-104.6727095	0.00	
8620.50†	90.000	180.186	7263.50	2267.94	-2159.06	1148.54	3231775.71	1242748.90	39.9967631	-104.6727107	0.00	
8720.50†	90.000	180.186	7263.50	2367.35	-2259.06	1148.21	3231776.32	1242648.90	39.9964886	-104.6727119	0.00	
8820.50†	90.000	180.186	7263.50	2466.76	-2359.06	1147.89	3231776.92	1242548.91	39.9962141	-104.6727130	0.00	
8920.50†	90.000	180.186	7263.50	2566.17	-2459.06	1147.56	3231777.52	1242448.91	39.9959396	-104.6727142	0.00	
9020.50†	90.000	180.186	7263.50	2665.58	-2559.06	1147.24	3231778.13	1242348.92	39.9956651	-104.6727154	0.00	
9120.50†	90.000	180.186	7263.50	2764.99	-2659.06	1146.91	3231778.73	1242248.92	39.9953906	-104.6727166	0.00	
9220.50†	90.000	180.186	7263.50	2864.40	-2759.06	1146.58	3231779.33	1242148.93	39.9951161	-104.6727177	0.00	
9320.50†	90.000	180.186	7263.50	2963.81	-2859.06	1146.26	3231779.93	1242048.93	39.9948416	-104.6727189	0.00	
9420.50†	90.000	180.186	7263.50	3063.22	-2959.06	1145.93	3231780.54	1241948.94	39.9945671	-104.6727201	0.00	
9520.50†	90.000	180.186	7263.50	3162.63	-3059.06	1145.61	3231781.14	1241848.95	39.9942925	-104.6727213	0.00	
9620.50†	90.000	180.186	7263.50	3262.04	-3159.06	1145.28	3231781.74	1241748.95	39.9940180	-104.6727225	0.00	
9720.50†	90.000	180.186	7263.50	3361.45	-3259.05	1144.96	3231782.35	1241648.96	39.9937435	-104.6727236	0.00	
9820.50†	90.000	180.186	7263.50	3460.86	-3359.05	1144.63	3231782.95	1241548.96	39.9934690	-104.6727248	0.00	
9920.50†	90.000	180.186	7263.50	3560.27	-3459.05	1144.31	3231783.55	1241448.97	39.9931945	-104.6727260	0.00	
10020.50†	90.000	180.186	7263.50	3659.68	-3559.05	1143.98	3231784.15	1241348.97	39.9929200	-104.6727272	0.00	
10120.50†	90.000	180.186	7263.50	3759.09	-3659.05	1143.66	3231784.76	1241248.98	39.9926455	-104.6727283	0.00	
10220.50†	90.000	180.186	7263.50	3858.50	-3759.05	1143.33	3231785.36	1241148.98	39.9923710	-104.6727295	0.00	
10320.50†	90.000	180.186	7263.50	3957.91	-3859.05	1143.00	3231785.96	1241048.99	39.9920965	-104.6727307	0.00	
10420.50†	90.000	180.186	7263.50	4057.32	-3959.05	1142.68	3231786.57	1240948.99	39.9918220	-104.6727319	0.00	
10520.50†	90.000	180.186	7263.50	4156.73	-4059.05	1142.35	3231787.17	1240848.99	39.9915475	-104.6727331	0.00	
10620.50†	90.000	180.186	7263.50	4256.14	-4159.05	1142.03	3231787.77	1240749.01	39.9912730	-104.6727342	0.00	
10720.50†	90.000	180.186	7263.50	4355.55	-4259.05	1141.70	3231788.37	1240649.01	39.9909985	-104.6727354	0.00	
10820.50†	90.000	180.186	7263.50	4454.96	-4359.05	1141.38	3231788.98	1240549.02	39.9907239	-104.6727366	0.00	
10920.50†	90.000	180.186	7263.50	4554.37	-4459.05	1141.05	3231789.58	1240449.02	39.9904494	-104.6727378	0.00	
11020.50†	90.000	180.186	7263.50	4653.78	-4559.05	1140.73	3231790.18	1240349.03	39.9901749	-104.6727389	0.00	
11120.50†	90.000	180.186	7263.50	4753.19	-4659.05	1140.40	3231790.79	1240249.03	39.9899004	-104.6727401	0.00	
11220.50†	90.000	180.186	7263.50	4852.60	-4759.05	1140.08	3231791.39	1240149.04	39.9896259	-104.6727413	0.00	
11320.50†	90.000	180.186	7263.50	4952.01	-4859.05	1139.75	3231791.99	1240049.04	39.9893514	-104.6727425	0.00	
11420.50†	90.000	180.186	7263.50	5051.42	-4959.05	1139.42	3231792.59	1239949.05	39.9890769	-104.6727437	0.00	
11520.50†	90.000	180.186	7263.50	5150.83	-5059.04	1139.10	3231793.20	1239849.05	39.9888024	-104.6727448	0.00	
11620.50†	90.000	180.186	7263.50	5250.24	-5159.04	1138.77	3231793.80	1239749.06	39.9885279	-104.6727460	0.00	
11720.50†	90.000	180.186	7263.50	5349.65	-5259.04	1138.45	3231794.40	1239649.06	39.9882534	-104.6727472	0.00	
11820.50†	90.000	180.186	7263.50	5449.06	-5359.04	1138.12	3231795.01	1239549.07	39.9879789	-104.6727484	0.00	
11920.50†	90.000	180.186	7263.50	5548.47	-5459.04	1137.80	3231795.61	1239449.08	39.9877044	-104.6727495	0.00	
12020.50†	90.000	180.186	7263.50	5647.88	-5559.04	1137.47	3231796.21	1239349.08	39.9874299	-104.6727507	0.00	
12120.50†	90.000	180.186	7263.50	5747.29	-5659.04	1137.15	3231796.81	1239249.09	39.9871553	-104.6727519	0.00	
12220.50†	90.000	180.186	7263.50	5846.70	-5759.04	1136.82	3231797.42	1239149.09	39.9868808	-104.6727531	0.00	
12320.50†	90.000	180.186	7263.50	5946.11	-5859.04	1136.50	3231798.02	1239049.10	39.9866063	-104.6727543	0.00	
12420.50†	90.000	180.186	7263.50	6045.52	-5959.04	1136.17	3231798.62	1238949.10	39.9863318	-104.6727554	0.00	
12520.50†	90.000	180.186	7263.50	6144.93	-6059.04	1135.84	3231799.23	1238849.11	39.9860573	-104.6727566	0.00	
12620.50†	90.000	180.186	7263.50	6244.34	-6159.04	1135.52	3231799.83	1238749.11	39.9857828	-104.6727578	0.00	
12720.50†	90.000	180.186	7263.50	6343.75	-6259.04	1135.19	3231800.43	1238649.12	39.9855083	-104.6727590	0.00	
12820.50†	90.000	180.186	7263.50	6443.16	-6359.04	1134.87	3231801.03	1238549.12	39.9852338	-104.6727601	0.00	
12920.50†	90.000	180.186	7263.50	6542.57	-6459.04	1134.54	3231801.64	1238449.13	39.9849593	-104.6727613	0.00	

REFERENCE WELLPATH IDENTIFICATION

Operator	CONFLUENCE RESOURCES	Well	Desha 4-11-2L
Field	WELD COUNTY (NAD83, TRUE NORTH)	API/Legal	
Facility	SEC.33-T01N-R65W	Wellbore	Desha 4-11-2L PWB
Slot	SLOT#17 Desha 4-11-2L (785'FSL & 450'FWL,SEC.33)		

WELLPATH DATA (177 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
13020.50†	90.000	180.186	7263.50	6641.98	-6559.04	1134.22	3231802.24	1238349.13	39.9846848	-104.6727625	0.00	
13120.50†	90.000	180.186	7263.50	6741.39	-6659.04	1133.89	3231802.84	1238249.14	39.9844103	-104.6727637	0.00	
13220.50†	90.000	180.186	7263.50	6840.80	-6759.04	1133.57	3231803.45	1238149.15	39.9841358	-104.6727649	0.00	
13320.50†	90.000	180.186	7263.50	6940.21	-6859.04	1133.24	3231804.05	1238049.15	39.9838613	-104.6727660	0.00	
13420.50†	90.000	180.186	7263.50	7039.62	-6959.03	1132.92	3231804.65	1237949.16	39.9835867	-104.6727672	0.00	
13520.50†	90.000	180.186	7263.50	7139.03	-7059.03	1132.59	3231805.25	1237849.16	39.9833122	-104.6727684	0.00	
13620.50†	90.000	180.186	7263.50	7238.44	-7159.03	1132.27	3231805.86	1237749.17	39.9830377	-104.6727696	0.00	
13720.50†	90.000	180.186	7263.50	7337.85	-7259.03	1131.94	3231806.46	1237649.17	39.9827632	-104.6727707	0.00	
13820.50†	90.000	180.186	7263.50	7437.26	-7359.03	1131.61	3231807.06	1237549.18	39.9824887	-104.6727719	0.00	
13920.50†	90.000	180.186	7263.50	7536.67	-7459.03	1131.29	3231807.67	1237449.18	39.9822142	-104.6727731	0.00	
14020.50†	90.000	180.186	7263.50	7636.08	-7559.03	1130.96	3231808.27	1237349.19	39.9819397	-104.6727743	0.00	
14120.50†	90.000	180.186	7263.50	7735.49	-7659.03	1130.64	3231808.87	1237249.19	39.9816652	-104.6727755	0.00	
14220.50†	90.000	180.186	7263.50	7834.90	-7759.03	1130.31	3231809.47	1237149.20	39.9813907	-104.6727766	0.00	
14320.50†	90.000	180.186	7263.50	7934.31	-7859.03	1129.99	3231810.08	1237049.20	39.9811162	-104.6727778	0.00	
14420.50†	90.000	180.186	7263.50	8033.72	-7959.03	1129.66	3231810.68	1236949.21	39.9808417	-104.6727790	0.00	
14520.50†	90.000	180.186	7263.50	8133.13	-8059.03	1129.34	3231811.28	1236849.22	39.9805672	-104.6727802	0.00	
14620.50†	90.000	180.186	7263.50	8232.54	-8159.03	1129.01	3231811.89	1236749.22	39.9802927	-104.6727813	0.00	
14720.50†	90.000	180.186	7263.50	8331.95	-8259.03	1128.69	3231812.49	1236649.23	39.9800181	-104.6727825	0.00	
14820.50†	90.000	180.186	7263.50	8431.36	-8359.03	1128.36	3231813.09	1236549.23	39.9797436	-104.6727837	0.00	
14920.50†	90.000	180.186	7263.50	8530.77	-8459.03	1128.03	3231813.69	1236449.24	39.9794691	-104.6727849	0.00	
15020.50†	90.000	180.186	7263.50	8630.18	-8559.03	1127.71	3231814.30	1236349.24	39.9791946	-104.6727860	0.00	
15120.50†	90.000	180.186	7263.50	8729.59	-8659.03	1127.38	3231814.90	1236249.25	39.9789201	-104.6727872	0.00	
15220.50†	90.000	180.186	7263.50	8829.00	-8759.03	1127.06	3231815.50	1236149.25	39.9786456	-104.6727884	0.00	
15320.50†	90.000	180.186	7263.50	8928.41	-8859.02	1126.73	3231816.11	1236049.26	39.9783711	-104.6727896	0.00	
15420.50†	90.000	180.186	7263.50	9027.82	-8959.02	1126.41	3231816.71	1235949.26	39.9780966	-104.6727908	0.00	
15520.50†	90.000	180.186	7263.50	9127.23	-9059.02	1126.08	3231817.31	1235849.27	39.9778221	-104.6727919	0.00	
15620.50†	90.000	180.186	7263.50	9226.64	-9159.02	1125.76	3231817.91	1235749.28	39.9775476	-104.6727931	0.00	
15720.50†	90.000	180.186	7263.50	9326.05	-9259.02	1125.43	3231818.52	1235649.28	39.9772731	-104.6727943	0.00	
15820.50†	90.000	180.186	7263.50	9425.46	-9359.02	1125.11	3231819.12	1235549.29	39.9769986	-104.6727955	0.00	
15920.50†	90.000	180.186	7263.50	9524.87	-9459.02	1124.78	3231819.72	1235449.29	39.9767240	-104.6727966	0.00	
16020.50†	90.000	180.186	7263.50	9624.28	-9559.02	1124.45	3231820.33	1235349.30	39.9764495	-104.6727978	0.00	
16120.50†	90.000	180.186	7263.50	9723.69	-9659.02	1124.13	3231820.93	1235249.30	39.9761750	-104.6727990	0.00	
16220.50†	90.000	180.186	7263.50	9823.10	-9759.02	1123.80	3231821.53	1235149.31	39.9759005	-104.6728002	0.00	
16320.50†	90.000	180.186	7263.50	9922.51	-9859.02	1123.48	3231822.13	1235049.31	39.9756260	-104.6728014	0.00	
16420.50†	90.000	180.186	7263.50	10021.92	-9959.02	1123.15	3231822.74	1234949.32	39.9753515	-104.6728025	0.00	
16520.50†	90.000	180.186	7263.50	10121.33	-10059.02	1122.83	3231823.34	1234849.32	39.9750770	-104.6728037	0.00	
16620.50†	90.000	180.186	7263.50	10220.74	-10159.02	1122.50	3231823.94	1234749.33	39.9748025	-104.6728049	0.00	
16720.50†	90.000	180.186	7263.50	10320.15	-10259.02	1122.18	3231824.55	1234649.33	39.9745280	-104.6728061	0.00	
16820.50†	90.000	180.186	7263.50	10419.56	-10359.02	1121.85	3231825.15	1234549.34	39.9742535	-104.6728072	0.00	
16920.50†	90.000	180.186	7263.50	10518.97	-10459.02	1121.53	3231825.75	1234449.35	39.9739790	-104.6728084	0.00	
17020.50†	90.000	180.186	7263.50	10618.38	-10559.02	1121.20	3231826.35	1234349.35	39.9737045	-104.6728096	0.00	
17054.91	90.000	180.186	7263.50 ²	10652.58	-10593.43	1121.09	3231826.56	1234314.94	39.9736100	-104.6728100	0.00	TD

REFERENCE WELLPATH IDENTIFICATION

Operator	CONFLUENCE RESOURCES	Well	Desha 4-11-2L
Field	WELD COUNTY (NAD83, TRUE NORTH)	API/Legal	
Facility	SEC.33-T01N-R65W	Wellbore	Desha 4-11-2L PWB
Slot	SLOT#17 Desha 4-11-2L (785'FSL & 450'FWL,SEC.33)		

HOLE & CASING SECTIONS - Ref Wellbore: Desha 4-11-2L PWB Ref Wellpath: Desha 4-11-2L PWP Rev-A.0

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]
9.625in Casing Surface	20.50	1500.00	1479.50	20.50	1500.00	0.00	0.00	0.00	0.00

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.04-T01S-R65W	N/A	0.00	-98.36	2.80	3230610.94	1244798.80	40.0024200	-104.6768000	polygon
2D Polygon: dimensions not calculated									
SEC.04/09-T01S-R65W 470' SETBACK	N/A	0.00	-98.36	2.80	3230610.94	1244798.80	40.0024200	-104.6768000	polygon
2D Polygon: dimensions not calculated									
SEC.09-T01S-R65W	N/A	0.00	-98.36	2.80	3230610.94	1244798.80	40.0024200	-104.6768000	polygon
2D Polygon: dimensions not calculated									
2) Desha 4-11-2L BHL REV-1 (470'FSL & 1585'FWL,SEC.09)	17054.91	7263.50	-10593.43	1121.09	3231826.56	1234314.94	39.9736100	-104.6728100	point
1) Desha 4-11-2L LP REV-1 (470'FNL & 1585'FWL,SEC.04)	7714.56	7263.50	-1253.12	1151.49	3231770.25	1243654.79	39.9992500	-104.6727000	point

SURVEY PROGRAM - Ref Wellbore: Desha 4-11-2L PWB Ref Wellpath: Desha 4-11-2L PWP Rev-A.0

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
20.50	1500.00	BH NaviTrak (2019) (Axial)		Desha 4-11-2L PWB
1500.00	17096.63	BH AutoTrak Curve/eXpress (2019) (Short spacing)		Desha 4-11-2L PWB

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REFERENCE WELLPATH IDENTIFICATION

Operator	CONFLUENCE RESOURCES	Well	Desha 4-11-2L
Field	WELD COUNTY (NAD83, TRUE NORTH)	API/Legal	
Facility	SEC.33-T01N-R65W	Wellbore	Desha 4-11-2L PWB
Slot	SLOT#17 Desha 4-11-2L (785'FSL & 450'FWL,SEC.33)		

DESIGN COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
20.50	0.000	126.191	20.50	Tie On
1550.00	0.000	126.191	1550.00	End of Tangent
2299.23	14.985	126.191	2290.72	End of Build
7037.41	14.985	126.191	6867.78	KOP
7714.56	90.000	180.186	7263.50	LANDING
17054.91	90.000	180.186	7263.50	TD