

# CONFLUENCE RESOURCES

Location:	COLORADO	Slot:	SLOT#15 Desha 4-12-1L (735'FSL & 450'FWL,SEC.33)
Field:	WELD COUNTY (NAD83, TRUE NORTH)	Well:	Desha 4-12-1L
Facility:	SEC.33-T01N-R65W	Wellbore:	Desha 4-12-1L PWB
Plot reference wellpath is Desha 4-12-1L 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) (RT) to Mean Sea Level: 5098.5 feet		Coordinates are in feet referenced to Slot	
Mean Sea Level to Mud line (At Slot: SLOT#15 Desha 4-12-1L (735'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	

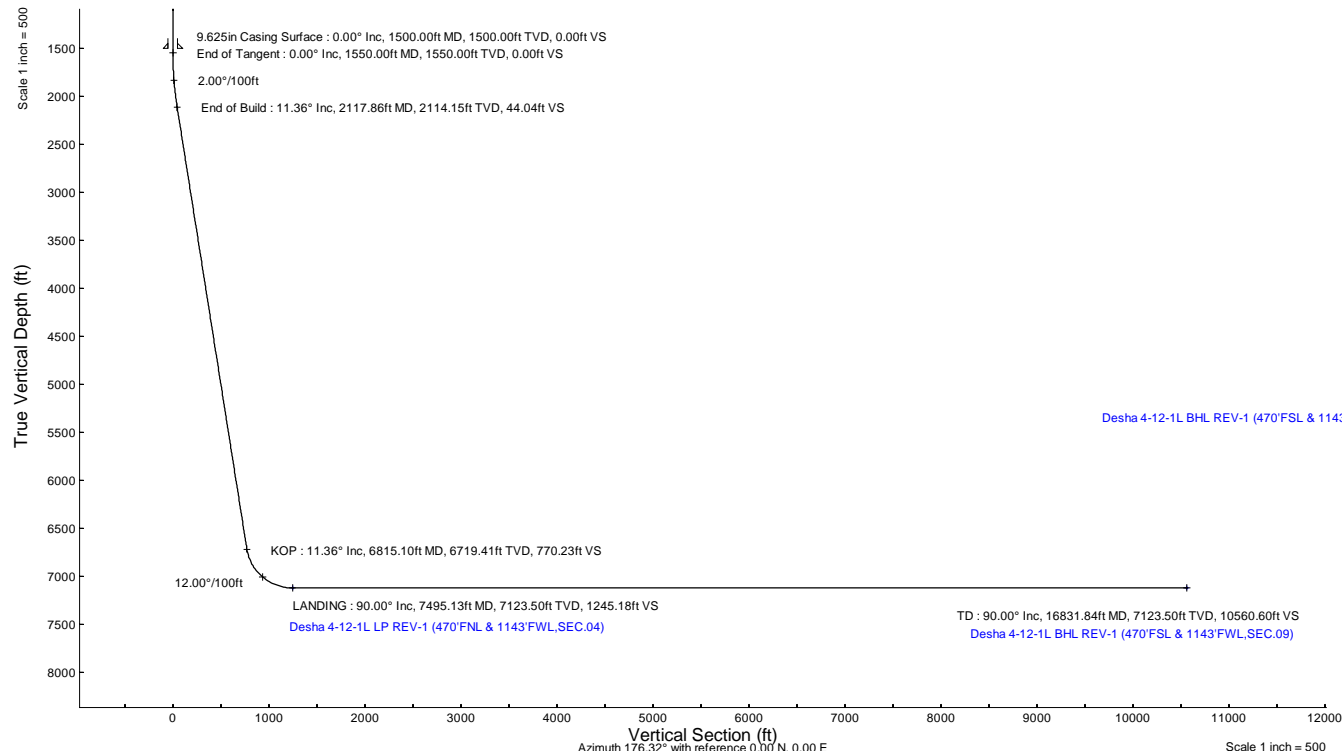
Location Information					
Facility Name		Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
SEC.33-T01N-R65W		3230456.897	1245096.090	40°00'11.6640"N	104°40'38.4240"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude
SLOT#15 Desha 4-12-1L (735'FSL & 450'FWL,SEC.33)	-251.36	151.28	3230610.500	1244846.155	40°00'9.1800"N
Rig (20.5) (RT) to Mud line (At Slot: SLOT#15 Desha 4-12-1L (735'FSL & 450'FWL,SEC.33))				5098.5R	
Mean Sea Level to Mud line (At Slot: SLOT#15 Desha 4-12-1L (735'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 4-12-1L PWB
1500.00	16831.84	BH AutoTrak Curve/Press (2019)	BH AutoTrak Curve/Press (2019) (Short spacing)		Desha 4-12-1L PWB

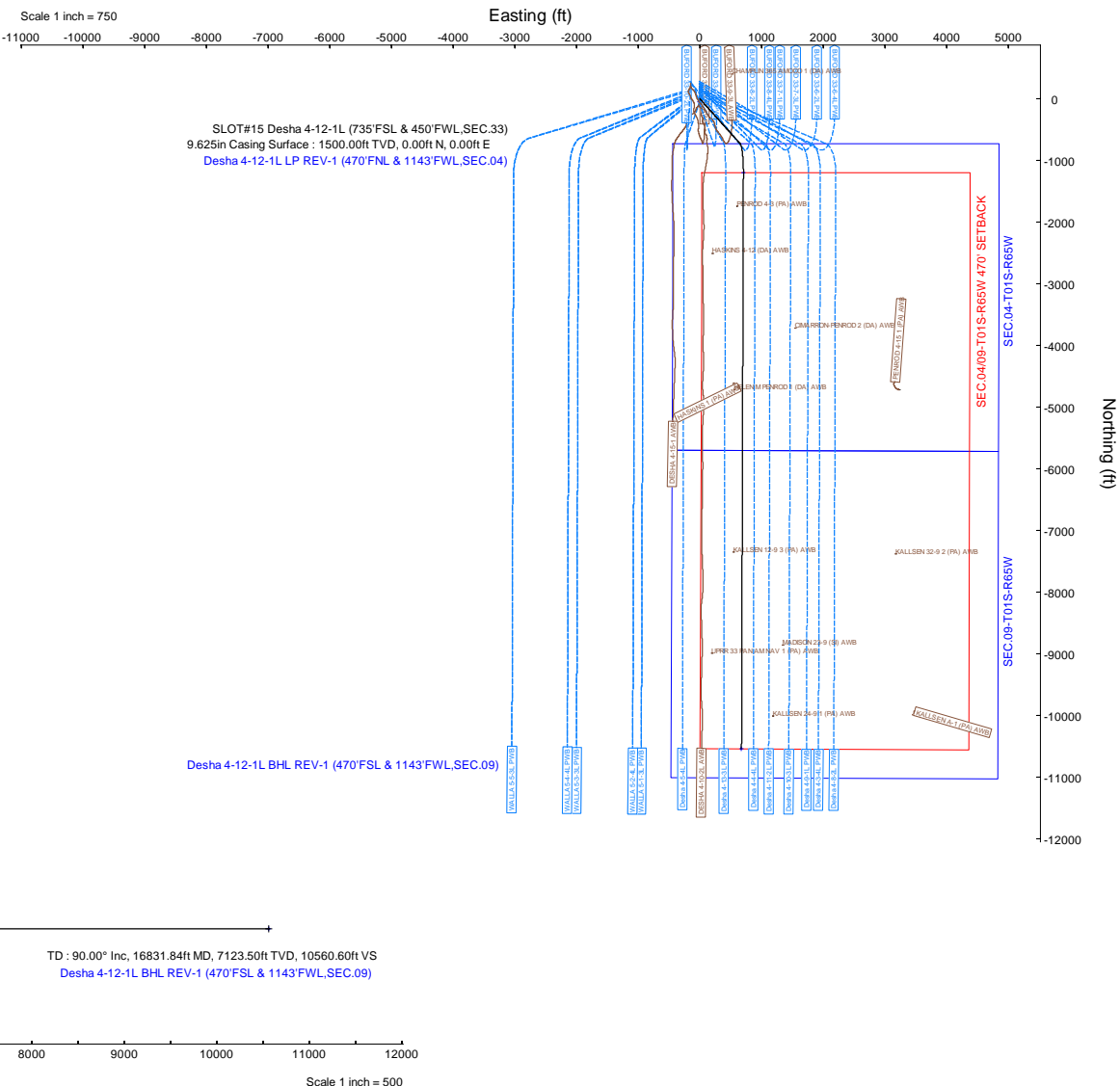
Hole and Casing Sections									
Name	Start MD (ft)	End MD (ft)	Interval (ft)	Start TVD (ft)	End TVD (ft)	Start Local N (ft)	Start Local E (ft)	End Local N (ft)	End Local E (ft)
9.625in Casing Surface	20.50	1500.00	1479.50	20.50	1500.00	0.00	0.00	0.00	0.00

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
16831.84	90.000	180.188	7123.50	-10538.80	678.26	3231386.54	1234314.48	39°58'25.0320"N	104°40'27.7680"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	-47.36	0.00	3230610.94	1244798.80	40°00'8.7120"N	104°40'36.4800"W	
SEC.0409-T01S-R65W 470' SETBACK	N/A	0.00	-47.36	0.00	3230610.94	1244798.80	40°00'8.7120"N	104°40'36.4800"W	
SEC.09-T01S-R65W	N/A	0.00	-47.36	0.00	3230610.94	1244798.80	40°00'8.7120"N	104°40'36.4800"W	
Desha 4-12-1L BHL REV-1 (470'FSL & 1143'FWL,SEC.09)	16831.84	7123.50	-10538.80	678.26	3231386.54	1234314.48	39°58'25.0320"N	104°40'27.7680"W	
Desha 4-12-1L LP REV-1 (470'FSL & 1143'FWL,SEC.04)	7495.13	7123.50	-1202.14	708.82	3231330.43	1243659.69	39°59'57.3000"N	104°40'27.3720"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	138.045	20.50	0.00	0.00	0.00	0.00
End of Tangent	1550.00	0.000	138.045	1550.00	0.00	0.00	0.00	0.00
End of Build	2117.86	11.357	138.045	2114.15	-41.72	37.50	2.00	44.04
KOP	6815.10	11.357	138.045	6719.41	-729.61	655.91	0.00	770.23
LANDING	7495.13	90.000	180.188	7123.50	-1202.14	708.82	12.00	1245.18
TD	16831.84	90.000	180.188	7123.50	-10538.80	678.26	0.00	10560.60



# Planned Wellpath Report

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## REFERENCE WELLPATH IDENTIFICATION

Operator	CONFLUENCE RESOURCES	Well	Desha 4-12-1L
Field	WELD COUNTY (NAD83, TRUE NORTH)	API/Legal	
Facility	SEC.33-T01N-R65W	Wellbore	Desha 4-12-1L PWB
Slot	SLOT#15 Desha 4-12-1L (735'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 10:45:36 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	-251.36	151.28	3230610.50	1244846.16	40.0025500°	-104.6768000°
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#15 Desha 4-12-1L (735'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	176.32°

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Field	WELD COUNTY (NAD83, TRUE NORTH)	API/Legal	
Facility	SEC.33-T01N-R65W	Wellbore	Desha 4-12-1L PWB
Slot	SLOT#15 Desha 4-12-1L (735'FSL & 450'FWL,SEC.33)		

## WELLPATH DATA (175 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	138.045	0.00	0.00	0.00	0.00	3230610.50	1244846.16	40.0025500	-104.6768000	0.00	
20.50	0.000	138.045	20.50	0.00	0.00	0.00	3230610.50	1244846.16	40.0025500	-104.6768000	0.00	Tie On
120.50†	0.000	138.045	120.50	0.00	0.00	0.00	3230610.50	1244846.16	40.0025500	-104.6768000	0.00	
220.50†	0.000	138.045	220.50	0.00	0.00	0.00	3230610.50	1244846.16	40.0025500	-104.6768000	0.00	
320.50†	0.000	138.045	320.50	0.00	0.00	0.00	3230610.50	1244846.16	40.0025500	-104.6768000	0.00	
420.50†	0.000	138.045	420.50	0.00	0.00	0.00	3230610.50	1244846.16	40.0025500	-104.6768000	0.00	
520.50†	0.000	138.045	520.50	0.00	0.00	0.00	3230610.50	1244846.16	40.0025500	-104.6768000	0.00	
620.50†	0.000	138.045	620.50	0.00	0.00	0.00	3230610.50	1244846.16	40.0025500	-104.6768000	0.00	
720.50†	0.000	138.045	720.50	0.00	0.00	0.00	3230610.50	1244846.16	40.0025500	-104.6768000	0.00	
820.50†	0.000	138.045	820.50	0.00	0.00	0.00	3230610.50	1244846.16	40.0025500	-104.6768000	0.00	
920.50†	0.000	138.045	920.50	0.00	0.00	0.00	3230610.50	1244846.16	40.0025500	-104.6768000	0.00	
1020.50†	0.000	138.045	1020.50	0.00	0.00	0.00	3230610.50	1244846.16	40.0025500	-104.6768000	0.00	
1120.50†	0.000	138.045	1120.50	0.00	0.00	0.00	3230610.50	1244846.16	40.0025500	-104.6768000	0.00	
1220.50†	0.000	138.045	1220.50	0.00	0.00	0.00	3230610.50	1244846.16	40.0025500	-104.6768000	0.00	
1320.50†	0.000	138.045	1320.50	0.00	0.00	0.00	3230610.50	1244846.16	40.0025500	-104.6768000	0.00	
1420.50†	0.000	138.045	1420.50	0.00	0.00	0.00	3230610.50	1244846.16	40.0025500	-104.6768000	0.00	
1520.50†	0.000	138.045	1520.50	0.00	0.00	0.00	3230610.50	1244846.16	40.0025500	-104.6768000	0.00	
1550.00	0.000	138.045	1550.00	0.00	0.00	0.00	3230610.50	1244846.16	40.0025500	-104.6768000	0.00	End of Tangent
1620.50†	1.410	138.045	1620.49	0.68	-0.65	0.58	3230611.09	1244845.52	40.0025482	-104.6767979	2.00	
1720.50†	3.410	138.045	1720.40	3.98	-3.77	3.39	3230613.93	1244842.42	40.0025396	-104.6767879	2.00	
1820.50†	5.410	138.045	1820.10	10.02	-9.49	8.53	3230619.12	1244836.75	40.0025239	-104.6767695	2.00	
1920.50†	7.410	138.045	1919.47	18.78	-17.79	15.99	3230626.66	1244828.51	40.0025012	-104.6767429	2.00	
2020.50†	9.410	138.045	2018.39	30.26	-28.67	25.77	3230636.54	1244817.73	40.0024713	-104.6767080	2.00	
2117.86	11.357	138.045	2114.15	44.04	-41.72	37.50	3230648.39	1244804.79	40.0024355	-104.6766661	2.00	End of Build
2120.50†	11.357	138.045	2116.74	44.45	-42.10	37.85	3230648.74	1244804.41	40.0024344	-104.6766649	0.00	
2220.50†	11.357	138.045	2214.78	59.91	-56.75	51.02	3230662.04	1244789.88	40.0023942	-104.6766179	0.00	
2320.50†	11.357	138.045	2312.82	75.37	-71.39	64.18	3230675.34	1244775.36	40.0023540	-104.6765709	0.00	
2420.50†	11.357	138.045	2410.86	90.83	-86.04	77.35	3230688.64	1244760.84	40.0023138	-104.6765239	0.00	
2520.50†	11.357	138.045	2508.90	106.29	-100.68	90.51	3230701.94	1244746.32	40.0022736	-104.6764769	0.00	
2620.50†	11.357	138.045	2606.95	121.75	-115.33	103.68	3230715.24	1244731.80	40.0022334	-104.6764299	0.00	
2720.50†	11.357	138.045	2704.99	137.21	-129.97	116.84	3230728.54	1244717.28	40.0021932	-104.6763829	0.00	
2820.50†	11.357	138.045	2803.03	152.67	-144.62	130.01	3230741.84	1244702.76	40.0021530	-104.6763359	0.00	
2920.50†	11.357	138.045	2901.07	168.13	-159.26	143.17	3230755.14	1244688.24	40.0021128	-104.6762890	0.00	
3020.50†	11.357	138.045	2999.11	183.59	-173.91	156.34	3230768.44	1244673.71	40.0020726	-104.6762420	0.00	
3120.50†	11.357	138.045	3097.16	199.05	-188.55	169.50	3230781.74	1244659.19	40.0020324	-104.6761950	0.00	
3220.50†	11.357	138.045	3195.20	214.51	-203.20	182.67	3230795.04	1244644.67	40.0019922	-104.6761480	0.00	
3320.50†	11.357	138.045	3293.24	229.97	-217.84	195.83	3230808.34	1244630.15	40.0019520	-104.6761010	0.00	
3420.50†	11.357	138.045	3391.28	245.43	-232.49	209.00	3230821.64	1244615.63	40.0019118	-104.6760540	0.00	
3520.50†	11.357	138.045	3489.32	260.89	-247.13	222.16	3230834.94	1244601.11	40.0018716	-104.6760070	0.00	
3620.50†	11.357	138.045	3587.36	276.35	-261.77	235.33	3230848.24	1244586.59	40.0018314	-104.6759600	0.00	
3720.50†	11.357	138.045	3685.41	291.81	-276.42	248.50	3230861.54	1244572.06	40.0017912	-104.6759130	0.00	
3820.50†	11.357	138.045	3783.45	307.27	-291.06	261.66	3230874.84	1244557.54	40.0017510	-104.6758660	0.00	
3920.50†	11.357	138.045	3881.49	322.73	-305.71	274.83	3230888.14	1244543.02	40.0017108	-104.6758190	0.00	
4020.50†	11.357	138.045	3979.53	338.19	-320.35	287.99	3230901.44	1244528.50	40.0016706	-104.6757720	0.00	
4120.50†	11.357	138.045	4077.57	353.65	-335.00	301.16	3230914.74	1244513.98	40.0016304	-104.6757250	0.00	

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Field	WELD COUNTY (NAD83, TRUE NORTH)	API/Legal	
Facility	SEC.33-T01N-R65W	Wellbore	Desha 4-12-1L PWB
Slot	SLOT#15 Desha 4-12-1L (735'FSL & 450'FWL,SEC.33)		

## WELLPATH DATA (175 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
4220.50†	11.357	138.045	4175.62	369.11	-349.64	314.32	3230928.04	1244499.46	40.0015902	-104.6756781	0.00	
4320.50†	11.357	138.045	4273.66	384.57	-364.29	327.49	3230941.34	1244484.94	40.0015500	-104.6756311	0.00	
4420.50†	11.357	138.045	4371.70	400.03	-378.93	340.65	3230954.64	1244470.42	40.0015098	-104.6755841	0.00	
4520.50†	11.357	138.045	4469.74	415.49	-393.58	353.82	3230967.94	1244455.89	40.0014696	-104.6755371	0.00	
4620.50†	11.357	138.045	4567.78	430.95	-408.22	366.98	3230981.24	1244441.37	40.0014294	-104.6754901	0.00	
4720.50†	11.357	138.045	4665.83	446.41	-422.87	380.15	3230994.54	1244426.85	40.0013892	-104.6754431	0.00	
4820.50†	11.357	138.045	4763.87	461.87	-437.51	393.31	3231007.84	1244412.33	40.0013490	-104.6753961	0.00	
4920.50†	11.357	138.045	4861.91	477.33	-452.16	406.48	3231021.14	1244397.81	40.0013088	-104.6753491	0.00	
5020.50†	11.357	138.045	4959.95	492.79	-466.80	419.64	3231034.44	1244383.29	40.0012686	-104.6753021	0.00	
5120.50†	11.357	138.045	5057.99	508.25	-481.45	432.81	3231047.74	1244368.77	40.0012284	-104.6752551	0.00	
5220.50†	11.357	138.045	5156.03	523.71	-496.09	445.98	3231061.04	1244354.24	40.0011882	-104.6752081	0.00	
5320.50†	11.357	138.045	5254.08	539.17	-510.73	459.14	3231074.35	1244339.72	40.0011480	-104.6751611	0.00	
5420.50†	11.357	138.045	5352.12	554.63	-525.38	472.31	3231087.65	1244325.20	40.0011078	-104.6751142	0.00	
5520.50†	11.357	138.045	5450.16	570.09	-540.02	485.47	3231100.95	1244310.68	40.0010676	-104.6750672	0.00	
5620.50†	11.357	138.045	5548.20	585.55	-554.67	498.64	3231114.25	1244296.16	40.0010274	-104.6750202	0.00	
5720.50†	11.357	138.045	5646.24	601.01	-569.31	511.80	3231127.55	1244281.64	40.0009872	-104.6749732	0.00	
5820.50†	11.357	138.045	5744.29	616.47	-583.96	524.97	3231140.85	1244267.12	40.0009470	-104.6749262	0.00	
5920.50†	11.357	138.045	5842.33	631.93	-598.60	538.13	3231154.15	1244252.60	40.0009068	-104.6748792	0.00	
6020.50†	11.357	138.045	5940.37	647.39	-613.25	551.30	3231167.45	1244238.07	40.0008666	-104.6748322	0.00	
6120.50†	11.357	138.045	6038.41	662.85	-627.89	564.46	3231180.75	1244223.55	40.0008264	-104.6747852	0.00	
6220.50†	11.357	138.045	6136.45	678.31	-642.54	577.63	3231194.05	1244209.03	40.0007862	-104.6747382	0.00	
6320.50†	11.357	138.045	6234.50	693.77	-657.18	590.79	3231207.35	1244194.51	40.0007460	-104.6746912	0.00	
6420.50†	11.357	138.045	6332.54	709.23	-671.83	603.96	3231220.65	1244179.99	40.0007058	-104.6746442	0.00	
6520.50†	11.357	138.045	6430.58	724.69	-686.47	617.12	3231233.95	1244165.47	40.0006656	-104.6745973	0.00	
6620.50†	11.357	138.045	6528.62	740.15	-701.12	630.29	3231247.25	1244150.95	40.0006254	-104.6745503	0.00	
6720.50†	11.357	138.045	6626.66	755.61	-715.76	643.45	3231260.55	1244136.42	40.0005852	-104.6745033	0.00	
6815.10	11.357	138.045	6719.41	770.23	-729.61	655.91	3231273.13	1244122.69	40.0005471	-104.6744588	0.00	KOP
6820.50†	11.842	140.189	6724.70	771.10	-730.44	656.62	3231273.85	1244121.87	40.0005449	-104.6744563	12.00	
6920.50†	22.341	161.044	6820.23	797.82	-756.39	669.41	3231286.88	1244096.04	40.0004736	-104.6744106	12.00	
7020.50†	33.826	168.585	6908.34	843.90	-801.81	681.13	3231299.02	1244050.73	40.0003489	-104.6743688	12.00	
7120.50†	45.555	172.592	6985.17	907.33	-864.72	691.28	3231309.76	1243987.92	40.0001762	-104.6743326	12.00	
7220.50†	57.377	175.239	7047.36	985.35	-942.37	699.41	3231318.60	1243910.35	39.9999631	-104.6743036	12.00	
7320.50†	69.241	177.259	7092.20	1074.52	-1031.36	705.16	3231325.18	1243821.42	39.9997188	-104.6742830	12.00	
7420.50†	81.126	178.982	7117.73	1170.97	-1127.81	708.29	3231329.20	1243725.01	39.9994540	-104.6742719	12.00	
7495.13	90.000	180.188	7123.50†	1245.18	-1202.14	708.82	3231330.43	1243650.69	39.9992500	-104.6742700	12.00	LANDING
7520.50†	90.000	180.188	7123.50	1270.49	-1227.51	708.74	3231330.58	1243625.32	39.9991804	-104.6742703	0.00	
7620.50†	90.000	180.188	7123.50	1370.27	-1327.51	708.41	3231331.18	1243525.33	39.9989058	-104.6742715	0.00	
7720.50†	90.000	180.188	7123.50	1470.04	-1427.51	708.08	3231331.78	1243425.33	39.9986313	-104.6742727	0.00	
7820.50†	90.000	180.188	7123.50	1569.81	-1527.51	707.76	3231332.38	1243325.34	39.9983568	-104.6742738	0.00	
7920.50†	90.000	180.188	7123.50	1669.58	-1627.51	707.43	3231332.98	1243225.34	39.9980823	-104.6742750	0.00	
8020.50†	90.000	180.188	7123.50	1769.35	-1727.51	707.10	3231333.58	1243125.35	39.9978078	-104.6742762	0.00	
8120.50†	90.000	180.188	7123.50	1869.13	-1827.51	706.77	3231334.18	1243025.35	39.9975333	-104.6742774	0.00	
8220.50†	90.000	180.188	7123.50	1968.90	-1927.51	706.45	3231334.78	1242925.36	39.9972588	-104.6742785	0.00	
8320.50†	90.000	180.188	7123.50	2068.67	-2027.50	706.12	3231335.39	1242825.37	39.9969843	-104.6742797	0.00	
8420.50†	90.000	180.188	7123.50	2168.44	-2127.50	705.79	3231335.99	1242725.37	39.9967098	-104.6742809	0.00	

# Planned Wellpath Report

Desha 4-12-1L PWP Rev-A.0

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## REFERENCE WELLPATH IDENTIFICATION

Operator	CONFLUENCE RESOURCES	Well	Desha 4-12-1L
Field	WELD COUNTY (NAD83, TRUE NORTH)	API/Legal	
Facility	SEC.33-T01N-R65W	Wellbore	Desha 4-12-1L PWB
Slot	SLOT#15 Desha 4-12-1L (735'FSL & 450'FWL,SEC.33)		

## WELLPATH DATA (175 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	180.188	7123.50	2268.21	-2227.50	705.47	3231336.59	1242625.38	39.9964353	-104.6742821	0.00	
8620.50†	90.000	180.188	7123.50	2367.99	-2327.50	705.14	3231337.19	1242525.38	39.9961608	-104.6742833	0.00	
8720.50†	90.000	180.188	7123.50	2467.76	-2427.50	704.81	3231337.79	1242425.39	39.9958863	-104.6742844	0.00	
8820.50†	90.000	180.188	7123.50	2567.53	-2527.50	704.48	3231338.39	1242325.39	39.9956118	-104.6742856	0.00	
8920.50†	90.000	180.188	7123.50	2667.30	-2627.50	704.16	3231338.99	1242225.40	39.9953372	-104.6742868	0.00	
9020.50†	90.000	180.188	7123.50	2767.07	-2727.50	703.83	3231339.59	1242125.40	39.9950627	-104.6742880	0.00	
9120.50†	90.000	180.188	7123.50	2866.85	-2827.50	703.50	3231340.19	1242025.41	39.9947882	-104.6742892	0.00	
9220.50†	90.000	180.188	7123.50	2966.62	-2927.50	703.17	3231340.79	1241925.41	39.9945137	-104.6742903	0.00	
9320.50†	90.000	180.188	7123.50	3066.39	-3027.50	702.85	3231341.39	1241825.42	39.9942392	-104.6742915	0.00	
9420.50†	90.000	180.188	7123.50	3166.16	-3127.50	702.52	3231342.00	1241725.42	39.9939647	-104.6742927	0.00	
9520.50†	90.000	180.188	7123.50	3265.93	-3227.50	702.19	3231342.60	1241625.43	39.9936902	-104.6742939	0.00	
9620.50†	90.000	180.188	7123.50	3365.71	-3327.50	701.86	3231343.20	1241525.44	39.9934157	-104.6742950	0.00	
9720.50†	90.000	180.188	7123.50	3465.48	-3427.50	701.54	3231343.80	1241425.44	39.9931412	-104.6742962	0.00	
9820.50†	90.000	180.188	7123.50	3565.25	-3527.50	701.21	3231344.40	1241325.45	39.9928667	-104.6742974	0.00	
9920.50†	90.000	180.188	7123.50	3665.02	-3627.50	700.88	3231345.00	1241225.45	39.9925922	-104.6742986	0.00	
10020.50†	90.000	180.188	7123.50	3764.79	-3727.50	700.56	3231345.60	1241125.46	39.9923177	-104.6742998	0.00	
10120.50†	90.000	180.188	7123.50	3864.57	-3827.49	700.23	3231346.20	1241025.46	39.9920432	-104.6743009	0.00	
10220.50†	90.000	180.188	7123.50	3964.34	-3927.49	699.90	3231346.80	1240925.47	39.9917686	-104.6743021	0.00	
10320.50†	90.000	180.188	7123.50	4064.11	-4027.49	699.57	3231347.40	1240825.47	39.9914941	-104.6743033	0.00	
10420.50†	90.000	180.188	7123.50	4163.88	-4127.49	699.25	3231348.01	1240725.48	39.9912196	-104.6743045	0.00	
10520.50†	90.000	180.188	7123.50	4263.65	-4227.49	698.92	3231348.61	1240625.48	39.9909451	-104.6743057	0.00	
10620.50†	90.000	180.188	7123.50	4363.43	-4327.49	698.59	3231349.21	1240525.49	39.9906706	-104.6743068	0.00	
10720.50†	90.000	180.188	7123.50	4463.20	-4427.49	698.26	3231349.81	1240425.49	39.9903961	-104.6743080	0.00	
10820.50†	90.000	180.188	7123.50	4562.97	-4527.49	697.94	3231350.41	1240325.50	39.9901216	-104.6743092	0.00	
10920.50†	90.000	180.188	7123.50	4662.74	-4627.49	697.61	3231351.01	1240225.51	39.9898471	-104.6743104	0.00	
11020.50†	90.000	180.188	7123.50	4762.51	-4727.49	697.28	3231351.61	1240125.51	39.9895726	-104.6743115	0.00	
11120.50†	90.000	180.188	7123.50	4862.28	-4827.49	696.95	3231352.21	1240025.52	39.9892981	-104.6743127	0.00	
11220.50†	90.000	180.188	7123.50	4962.06	-4927.49	696.63	3231352.81	1239925.52	39.9890236	-104.6743139	0.00	
11320.50†	90.000	180.188	7123.50	5061.83	-5027.49	696.30	3231353.41	1239825.53	39.9887491	-104.6743151	0.00	
11420.50†	90.000	180.188	7123.50	5161.60	-5127.49	695.97	3231354.02	1239725.53	39.9884746	-104.6743163	0.00	
11520.50†	90.000	180.188	7123.50	5261.37	-5227.49	695.64	3231354.62	1239625.54	39.9882000	-104.6743174	0.00	
11620.50†	90.000	180.188	7123.50	5361.14	-5327.49	695.32	3231355.22	1239525.54	39.9879255	-104.6743186	0.00	
11720.50†	90.000	180.188	7123.50	5460.92	-5427.49	694.99	3231355.82	1239425.55	39.9876510	-104.6743198	0.00	
11820.50†	90.000	180.188	7123.50	5560.69	-5527.49	694.66	3231356.42	1239325.55	39.9873765	-104.6743210	0.00	
11920.50†	90.000	180.188	7123.50	5660.46	-5627.49	694.34	3231357.02	1239225.56	39.9871020	-104.6743221	0.00	
12020.50†	90.000	180.188	7123.50	5760.23	-5727.48	694.01	3231357.62	1239125.56	39.9868275	-104.6743233	0.00	
12120.50†	90.000	180.188	7123.50	5860.00	-5827.48	693.68	3231358.22	1239025.57	39.9865530	-104.6743245	0.00	
12220.50†	90.000	180.188	7123.50	5959.78	-5927.48	693.35	3231358.82	1238925.58	39.9862785	-104.6743257	0.00	
12320.50†	90.000	180.188	7123.50	6059.55	-6027.48	693.03	3231359.42	1238825.58	39.9860040	-104.6743269	0.00	
12420.50†	90.000	180.188	7123.50	6159.32	-6127.48	692.70	3231360.02	1238725.59	39.9857295	-104.6743280	0.00	
12520.50†	90.000	180.188	7123.50	6259.09	-6227.48	692.37	3231360.63	1238625.59	39.9854550	-104.6743292	0.00	
12620.50†	90.000	180.188	7123.50	6358.86	-6327.48	692.04	3231361.23	1238525.60	39.9851805	-104.6743304	0.00	
12720.50†	90.000	180.188	7123.50	6458.64	-6427.48	691.72	3231361.83	1238425.60	39.9849060	-104.6743316	0.00	
12820.50†	90.000	180.188	7123.50	6558.41	-6527.48	691.39	3231362.43	1238325.61	39.9846314	-104.6743328	0.00	
12920.50†	90.000	180.188	7123.50	6658.18	-6627.48	691.06	3231363.03	1238225.61	39.9843569	-104.6743339	0.00	



## REFERENCE WELLPATH IDENTIFICATION

Operator	CONFLUENCE RESOURCES	Well	Desha 4-12-1L
Field	WELD COUNTY (NAD83, TRUE NORTH)	API/Legal	
Facility	SEC.33-T01N-R65W	Wellbore	Desha 4-12-1L PWB
Slot	SLOT#15 Desha 4-12-1L (735'FSL & 450'FWL,SEC.33)		

## WELLPATH DATA (175 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	180.188	7123.50	6757.95	-6727.48	690.73	3231363.63	1238125.62	39.9840824	-104.6743351	0.00	
13120.50†	90.000	180.188	7123.50	6857.72	-6827.48	690.41	3231364.23	1238025.62	39.9838079	-104.6743363	0.00	
13220.50†	90.000	180.188	7123.50	6957.50	-6927.48	690.08	3231364.83	1237925.63	39.9835334	-104.6743375	0.00	
13320.50†	90.000	180.188	7123.50	7057.27	-7027.48	689.75	3231365.43	1237825.63	39.9832589	-104.6743386	0.00	
13420.50†	90.000	180.188	7123.50	7157.04	-7127.48	689.43	3231366.03	1237725.64	39.9829844	-104.6743398	0.00	
13520.50†	90.000	180.188	7123.50	7256.81	-7227.48	689.10	3231366.64	1237625.65	39.9827099	-104.6743410	0.00	
13620.50†	90.000	180.188	7123.50	7356.58	-7327.48	688.77	3231367.24	1237525.65	39.9824354	-104.6743422	0.00	
13720.50†	90.000	180.188	7123.50	7456.36	-7427.48	688.44	3231367.84	1237425.66	39.9821609	-104.6743434	0.00	
13820.50†	90.000	180.188	7123.50	7556.13	-7527.48	688.12	3231368.44	1237325.66	39.9818864	-104.6743445	0.00	
13920.50†	90.000	180.188	7123.50	7655.90	-7627.47	687.79	3231369.04	1237225.67	39.9816119	-104.6743457	0.00	
14020.50†	90.000	180.188	7123.50	7755.67	-7727.47	687.46	3231369.64	1237125.67	39.9813374	-104.6743469	0.00	
14120.50†	90.000	180.188	7123.50	7855.44	-7827.47	687.13	3231370.24	1237025.68	39.9810628	-104.6743481	0.00	
14220.50†	90.000	180.188	7123.50	7955.22	-7927.47	686.81	3231370.84	1236925.68	39.9807883	-104.6743492	0.00	
14320.50†	90.000	180.188	7123.50	8054.99	-8027.47	686.48	3231371.44	1236825.69	39.9805138	-104.6743504	0.00	
14420.50†	90.000	180.188	7123.50	8154.76	-8127.47	686.15	3231372.04	1236725.69	39.9802393	-104.6743516	0.00	
14520.50†	90.000	180.188	7123.50	8254.53	-8227.47	685.82	3231372.64	1236625.70	39.9799648	-104.6743528	0.00	
14620.50†	90.000	180.188	7123.50	8354.30	-8327.47	685.50	3231373.25	1236525.71	39.9796903	-104.6743540	0.00	
14720.50†	90.000	180.188	7123.50	8454.08	-8427.47	685.17	3231373.85	1236425.71	39.9794158	-104.6743551	0.00	
14820.50†	90.000	180.188	7123.50	8553.85	-8527.47	684.84	3231374.45	1236325.72	39.9791413	-104.6743563	0.00	
14920.50†	90.000	180.188	7123.50	8653.62	-8627.47	684.51	3231375.05	1236225.72	39.9788668	-104.6743575	0.00	
15020.50†	90.000	180.188	7123.50	8753.39	-8727.47	684.19	3231375.65	1236125.73	39.9785923	-104.6743587	0.00	
15120.50†	90.000	180.188	7123.50	8853.16	-8827.47	683.86	3231376.25	1236025.73	39.9783178	-104.6743598	0.00	
15220.50†	90.000	180.188	7123.50	8952.94	-8927.47	683.53	3231376.85	1235925.74	39.9780433	-104.6743610	0.00	
15320.50†	90.000	180.188	7123.50	9052.71	-9027.47	683.21	3231377.45	1235825.74	39.9777688	-104.6743622	0.00	
15420.50†	90.000	180.188	7123.50	9152.48	-9127.47	682.88	3231378.05	1235725.75	39.9774942	-104.6743634	0.00	
15520.50†	90.000	180.188	7123.50	9252.25	-9227.47	682.55	3231378.65	1235625.75	39.9772197	-104.6743646	0.00	
15620.50†	90.000	180.188	7123.50	9352.02	-9327.47	682.22	3231379.26	1235525.76	39.9769452	-104.6743657	0.00	
15720.50†	90.000	180.188	7123.50	9451.80	-9427.46	681.90	3231379.86	1235425.76	39.9766707	-104.6743669	0.00	
15820.50†	90.000	180.188	7123.50	9551.57	-9527.46	681.57	3231380.46	1235325.77	39.9763962	-104.6743681	0.00	
15920.50†	90.000	180.188	7123.50	9651.34	-9627.46	681.24	3231381.06	1235225.78	39.9761217	-104.6743693	0.00	
16020.50†	90.000	180.188	7123.50	9751.11	-9727.46	680.91	3231381.66	1235125.78	39.9758472	-104.6743704	0.00	
16120.50†	90.000	180.188	7123.50	9850.88	-9827.46	680.59	3231382.26	1235025.79	39.9755727	-104.6743716	0.00	
16220.50†	90.000	180.188	7123.50	9950.66	-9927.46	680.26	3231382.86	1234925.79	39.9752982	-104.6743728	0.00	
16320.50†	90.000	180.188	7123.50	10050.43	-10027.46	679.93	3231383.46	1234825.80	39.9750237	-104.6743740	0.00	
16420.50†	90.000	180.188	7123.50	10150.20	-10127.46	679.60	3231384.06	1234725.80	39.9747492	-104.6743752	0.00	
16520.50†	90.000	180.188	7123.50	10249.97	-10227.46	679.28	3231384.66	1234625.81	39.9744747	-104.6743763	0.00	
16620.50†	90.000	180.188	7123.50	10349.74	-10327.46	678.95	3231385.27	1234525.81	39.9742001	-104.6743775	0.00	
16720.50†	90.000	180.188	7123.50	10449.52	-10427.46	678.62	3231385.87	1234425.82	39.9739256	-104.6743787	0.00	
16820.50†	90.000	180.188	7123.50	10549.29	-10527.46	678.30	3231386.47	1234325.82	39.9736511	-104.6743799	0.00	
16831.84	90.000	180.188	7123.50 <sup>‡</sup>	10560.60	-10538.80	678.26	3231386.54	1234314.48	39.9736200	-104.6743800	0.00	TD

## HOLE & CASING SECTIONS - Ref Wellbore: Desha 4-12-1L PWB Ref Wellpath: Desha 4-12-1L 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

## REFERENCE WELLPATH IDENTIFICATION

Operator	CONFLUENCE RESOURCES	Well	Desha 4-12-1L
Field	WELD COUNTY (NAD83, TRUE NORTH)	API/Legal	
Facility	SEC.33-T01N-R65W	Wellbore	Desha 4-12-1L PWB
Slot	SLOT#15 Desha 4-12-1L (735'FSL & 450'FWL,SEC.33)		

## 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	-47.36	0.00	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	-47.36	0.00	3230610.94	1244798.80	40.0024200	-104.6768000	polygon
	2D Polygon: dimensions not calculated								
SEC.09-T01S-R65W	N/A	0.00	-47.36	0.00	3230610.94	1244798.80	40.0024200	-104.6768000	polygon
	2D Polygon: dimensions not calculated								
2) Desha 4-12-1L BHL REV-1 (470'FSL & 1143'FWL,SEC.09)	16831.84	7123.50	-10538.80	678.26	3231386.54	1234314.48	39.9736200	-104.6743800	point
1) Desha 4-12-1L LP REV-1 (470'FNL & 1143'FWL,SEC.04)	7495.13	7123.50	-1202.14	708.82	3231330.43	1243650.69	39.9992500	-104.6742700	point

## SURVEY PROGRAM - Ref Wellbore: Desha 4-12-1L PWB Ref Wellpath: Desha 4-12-1L 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 4-12-1L PWB
1500.00	16831.84	BH AutoTrak Curve/eXpress (2019) (Short spacing)		Desha 4-12-1L PWB

# Planned Wellpath Report

Desha 4-12-1L PWP Rev-A.0

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## REFERENCE WELLPATH IDENTIFICATION

Operator	CONFLUENCE RESOURCES	Well	Desha 4-12-1L
Field	WELD COUNTY (NAD83, TRUE NORTH)	API/Legal	
Facility	SEC.33-T01N-R65W	Wellbore	Desha 4-12-1L PWB
Slot	SLOT#15 Desha 4-12-1L (735'FSL & 450'FWL,SEC.33)		

## DESIGN COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
20.50	0.000	138.045	20.50	Tie On
1550.00	0.000	138.045	1550.00	End of Tangent
2117.86	11.357	138.045	2114.15	End of Build
6815.10	11.357	138.045	6719.41	KOP
7495.13	90.000	180.188	7123.50	LANDING
16831.84	90.000	180.188	7123.50	TD