

CONFLUENCE RESOURCES

Location:	COLORADO	Slot:	SLOT#18 Desha 4-10-3L (810°FSL & 450°FWL,SEC.33)
Field:	WELD COUNTY (NAD83, TRUE NORTH)	Well:	Desha 4-10-3L
Facility:	SEC.33-T01N-R65W	Wellbore:	Desha 4-10-3L PWB
Plot reference wellpath is Desha 4-10-3L PWP Rev-B.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#18 Desha 4-10-3L (810°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: painsetr on 2020-11-12; Database: WellArchitectDB	

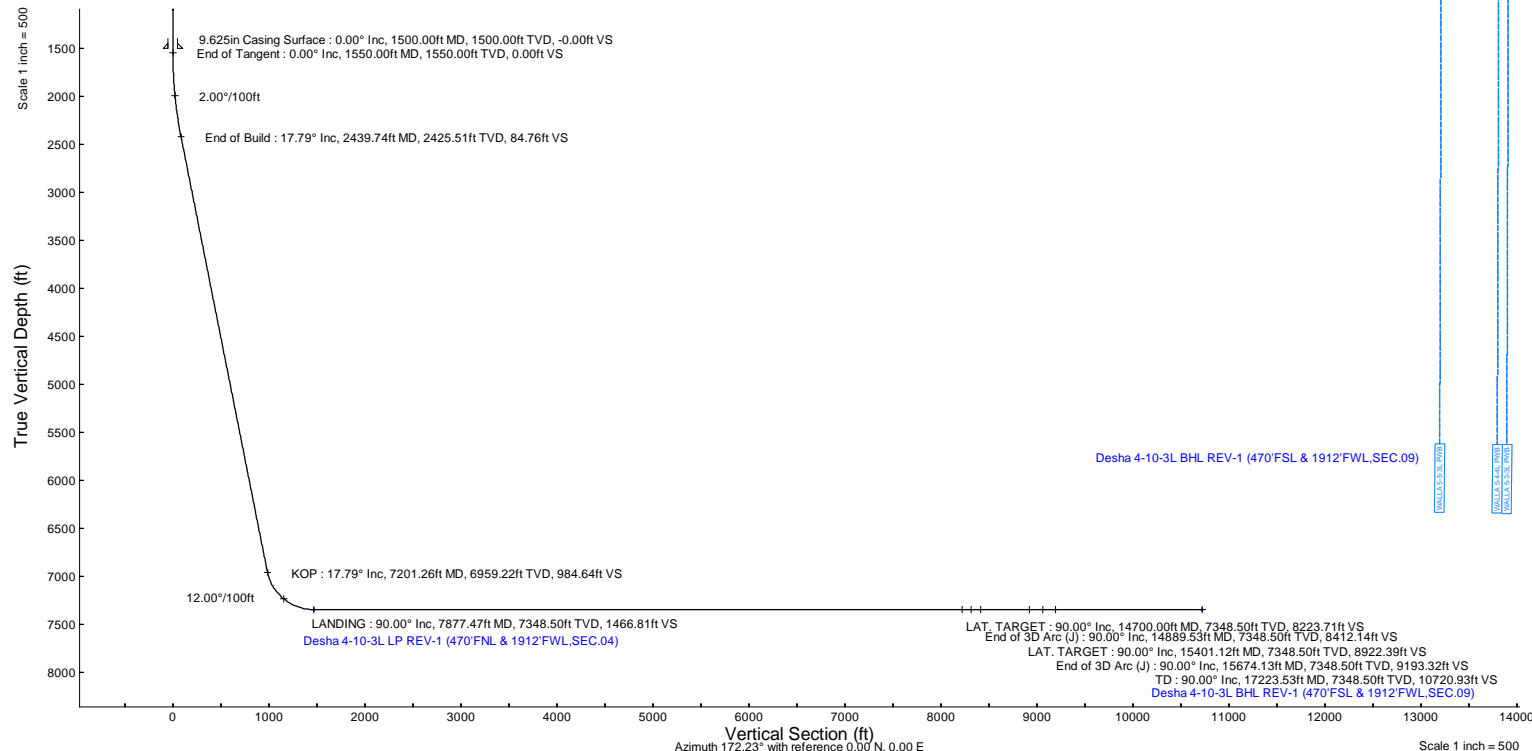
Location Information					
Facility Name		Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
SEC.33-T01N-R65W		3230456.897	1245096.090	40°00'11.6640"N	104°40'38.4240"W
Slot		Local N (ft)	Local E (ft)	Latitude	Longitude
SLOT#18 Desha 4-10-3L (810°FSL & 450°FWL,SEC.33)		-174.86	148.48	3230606.989	1244922.624
Rig (20.5) (RT) to Mud line (At Slot: SLOT#18 Desha 4-10-3L (810°FSL & 450°FWL,SEC.33))				5098.5R	
Mean Sea Level to Mud line (At Slot: SLOT#18 Desha 4-10-3L (810°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 4-10-3L PWB
1500.00	17223.53	BH AutoTrak Curve/Press (2019)	BH AutoTrak Curve/Press (2019) (Short spacing)		Desha 4-10-3L PWB

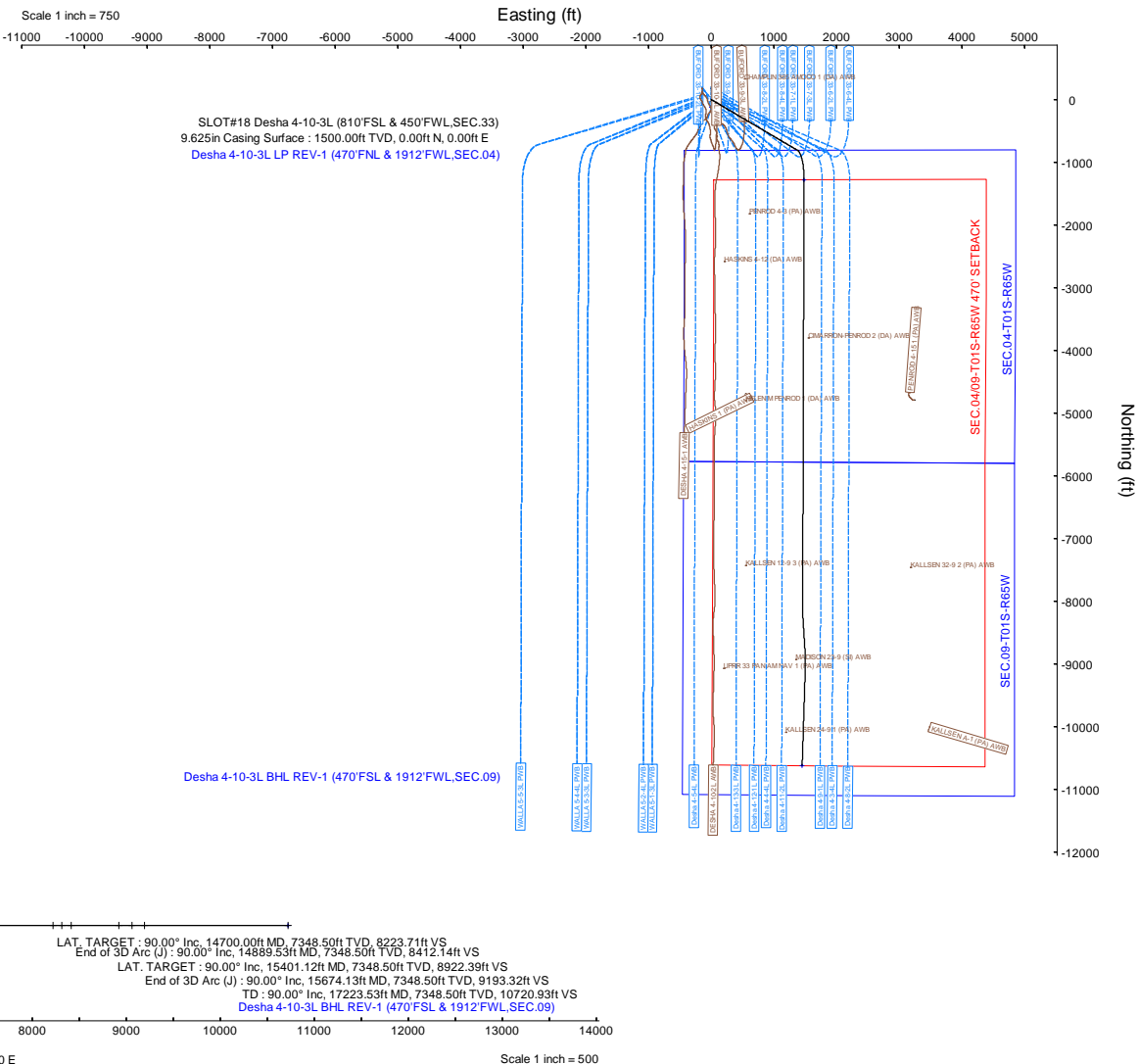
Hole and Casing Sections									
Name	Start MD (ft)	End MD (ft)	Interval (ft)	Start TVD (ft)	End TVD (ft)	Start Local N (ft)	Start Local E (ft)	End Local N (ft)	End Local E (ft)
9.625in Casing Surface	20.50	1500.00	1479.50	20.50	1500.00	0.00	0.00	0.00	0.00

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
17223.53	90.000	181.855	7348.50	-10622.55	1449.01	3232154.49	1234314.36	39°58'24.9600"N	104°40'17.9040"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	-123.86	2.80	3230610.94	1244798.80	40°00'8.7120"N	104°40'36.4800"W	
SEC.0409-T01S-R65W 470' SETBACK	N/A	0.00	-123.86	2.80	3230610.94	1244798.80	40°00'8.7120"N	104°40'36.4800"W	
SEC.09-T01S-R65W	N/A	0.00	-123.86	2.80	3230610.94	1244798.80	40°00'8.7120"N	104°40'36.4800"W	
Desha 4-10-3L BHL REV-1 (470°FSL & 1912°FWL,SEC.09)	17223.53	7348.50	-10622.55	1449.01	3232154.49	1234314.36	39°58'24.9600"N	104°40'17.9040"W	
Desha 4-10-3L LP REV-1 (470°FSL & 1912°FWL,SEC.04)	7877.47	7348.50	-1278.60	1479.28	3232098.02	1243657.85	39°59'57.3000"N	104°40'17.5080"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	120.432	20.50	0.00	0.00	0.00	0.00
End of Tangent	1550.00	0.000	120.432	1550.00	0.00	0.00	0.00	0.00
End of Build	2439.74	17.795	120.432	2425.51	-69.42	118.18	2.00	84.76
KOP	7201.26	17.795	120.432	6959.22	-806.48	1372.87	0.00	984.64
LANDING	7877.47	90.000	180.186	7348.50	-1278.60	1479.28	12.00	1466.81
LAT. TARGET	14700.00	90.000	180.186	7348.50	-8101.10	1457.18	0.00	8223.71
End of 3D Arc (J)	14889.53	90.000	176.395	7348.50	-8290.50	1462.83	2.00	8412.14
LAT. TARGET	15401.12	90.000	176.395	7348.50	-8801.09	1495.00	0.00	8922.39
End of 3D Arc (J)	15674.13	90.000	181.855	7348.50	-9073.96	1499.17	2.00	9193.32
TD	17223.53	90.000	181.855	7348.50	-10622.55	1449.01	0.00	10720.93



REFERENCE WELLPATH IDENTIFICATION

Operator	CONFLUENCE RESOURCES	Well	Desha 4-10-3L
Field	WELD COUNTY (NAD83, TRUE NORTH)	API/Legal	
Facility	SEC.33-T01N-R65W	Wellbore	Desha 4-10-3L PWB
Slot	SLOT#18 Desha 4-10-3L (810'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	11/12/2020 at 1:54:28 PM
Convergence at slot	0.53° East	Database	WellArchitectDB

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-174.86	148.48	3230606.99	1244922.62	40.0027600°	-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#18 Desha 4-10-3L (810'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	172.23°

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Slot	SLOT#18 Desha 4-10-3L (810'FSL & 450'FWL,SEC.33)		

WELLPATH DATA (183 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	120.432	0.00	0.00	0.00	0.00	3230606.99	1244922.62	40.0027600	-104.6768100	0.00	
20.50	0.000	120.432	20.50	0.00	0.00	0.00	3230606.99	1244922.62	40.0027600	-104.6768100	0.00	Tie On
120.50†	0.000	120.432	120.50	0.00	0.00	0.00	3230606.99	1244922.62	40.0027600	-104.6768100	0.00	
220.50†	0.000	120.432	220.50	0.00	0.00	0.00	3230606.99	1244922.62	40.0027600	-104.6768100	0.00	
320.50†	0.000	120.432	320.50	0.00	0.00	0.00	3230606.99	1244922.62	40.0027600	-104.6768100	0.00	
420.50†	0.000	120.432	420.50	0.00	0.00	0.00	3230606.99	1244922.62	40.0027600	-104.6768100	0.00	
520.50†	0.000	120.432	520.50	0.00	0.00	0.00	3230606.99	1244922.62	40.0027600	-104.6768100	0.00	
620.50†	0.000	120.432	620.50	0.00	0.00	0.00	3230606.99	1244922.62	40.0027600	-104.6768100	0.00	
720.50†	0.000	120.432	720.50	0.00	0.00	0.00	3230606.99	1244922.62	40.0027600	-104.6768100	0.00	
820.50†	0.000	120.432	820.50	0.00	0.00	0.00	3230606.99	1244922.62	40.0027600	-104.6768100	0.00	
920.50†	0.000	120.432	920.50	0.00	0.00	0.00	3230606.99	1244922.62	40.0027600	-104.6768100	0.00	
1020.50†	0.000	120.432	1020.50	0.00	0.00	0.00	3230606.99	1244922.62	40.0027600	-104.6768100	0.00	
1120.50†	0.000	120.432	1120.50	0.00	0.00	0.00	3230606.99	1244922.62	40.0027600	-104.6768100	0.00	
1220.50†	0.000	120.432	1220.50	0.00	0.00	0.00	3230606.99	1244922.62	40.0027600	-104.6768100	0.00	
1320.50†	0.000	120.432	1320.50	0.00	0.00	0.00	3230606.99	1244922.62	40.0027600	-104.6768100	0.00	
1420.50†	0.000	120.432	1420.50	0.00	0.00	0.00	3230606.99	1244922.62	40.0027600	-104.6768100	0.00	
1520.50†	0.000	120.432	1520.50	0.00	0.00	0.00	3230606.99	1244922.62	40.0027600	-104.6768100	0.00	
1550.00	0.000	120.432	1550.00	0.00	0.00	0.00	3230606.99	1244922.62	40.0027600	-104.6768100	0.00	End of Tangent
1620.50†	1.410	120.432	1620.49	0.54	-0.44	0.75	3230607.74	1244922.19	40.0027588	-104.6768073	2.00	
1720.50†	3.410	120.432	1720.40	3.14	-2.57	4.37	3230611.39	1244920.10	40.0027529	-104.6767944	2.00	
1820.50†	5.410	120.432	1820.10	7.89	-6.46	11.00	3230618.05	1244916.26	40.0027423	-104.6767707	2.00	
1920.50†	7.410	120.432	1919.47	14.80	-12.12	20.63	3230627.73	1244910.70	40.0027267	-104.6767364	2.00	
2020.50†	9.410	120.432	2018.39	23.84	-19.53	33.24	3230640.41	1244903.41	40.0027064	-104.6766914	2.00	
2120.50†	11.410	120.432	2116.74	35.01	-28.68	48.82	3230656.07	1244894.40	40.0026813	-104.6766357	2.00	
2220.50†	13.410	120.432	2214.40	48.30	-39.56	67.35	3230674.70	1244883.69	40.0026514	-104.6765696	2.00	
2320.50†	15.410	120.432	2311.24	63.69	-52.17	88.80	3230696.27	1244871.29	40.0026168	-104.6764930	2.00	
2420.50†	17.410	120.432	2407.17	81.16	-66.48	113.16	3230720.76	1244857.20	40.0025775	-104.6764061	2.00	
2439.74	17.795	120.432	2425.51	84.76	-69.42	118.18	3230725.80	1244854.30	40.0025694	-104.6763882	2.00	End of Build
2520.50†	17.795	120.432	2502.40	100.02	-81.92	139.46	3230747.20	1244842.00	40.0025351	-104.6763122	0.00	
2620.50†	17.795	120.432	2597.62	118.92	-97.40	165.81	3230773.69	1244826.77	40.0024926	-104.6762181	0.00	

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Field	WELD COUNTY (NAD83, TRUE NORTH)	API/Legal	
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Slot	SLOT#18 Desha 4-10-3L (810'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
2720.50†	17.795	120.432	2692.83	137.82	-112.88	192.16	3230800.18	1244811.53	40.0024501	-104.6761241	0.00	
2820.50†	17.795	120.432	2788.05	156.72	-128.36	218.51	3230826.67	1244796.30	40.0024076	-104.6760300	0.00	
2920.50†	17.795	120.432	2883.26	175.62	-143.84	244.86	3230853.17	1244781.07	40.0023651	-104.6759360	0.00	
3020.50†	17.795	120.432	2978.48	194.52	-159.32	271.21	3230879.66	1244765.83	40.0023226	-104.6758419	0.00	
3120.50†	17.795	120.432	3073.70	213.41	-174.80	297.56	3230906.15	1244750.60	40.0022802	-104.6757479	0.00	
3220.50†	17.795	120.432	3168.91	232.31	-190.28	323.91	3230932.64	1244735.37	40.0022377	-104.6756538	0.00	
3320.50†	17.795	120.432	3264.13	251.21	-205.76	350.26	3230959.13	1244720.13	40.0021952	-104.6755597	0.00	
3420.50†	17.795	120.432	3359.34	270.11	-221.24	376.61	3230985.63	1244704.90	40.0021527	-104.6754657	0.00	
3520.50†	17.795	120.432	3454.56	289.01	-236.72	402.97	3231012.12	1244689.66	40.0021102	-104.6753716	0.00	
3620.50†	17.795	120.432	3549.77	307.91	-252.20	429.32	3231038.61	1244674.43	40.0020677	-104.6752776	0.00	
3720.50†	17.795	120.432	3644.99	326.81	-267.68	455.67	3231065.10	1244659.20	40.0020252	-104.6751835	0.00	
3820.50†	17.795	120.432	3740.20	345.71	-283.16	482.02	3231091.60	1244643.96	40.0019827	-104.6750895	0.00	
3920.50†	17.795	120.432	3835.42	364.61	-298.64	508.37	3231118.09	1244628.73	40.0019402	-104.6749954	0.00	
4020.50†	17.795	120.432	3930.64	383.50	-314.12	534.72	3231144.58	1244613.50	40.0018977	-104.6749014	0.00	
4120.50†	17.795	120.432	4025.85	402.40	-329.60	561.07	3231171.07	1244598.26	40.0018552	-104.6748073	0.00	
4220.50†	17.795	120.432	4121.07	421.30	-345.08	587.42	3231197.57	1244583.03	40.0018127	-104.6747132	0.00	
4320.50†	17.795	120.432	4216.28	440.20	-360.55	613.77	3231224.06	1244567.79	40.0017702	-104.6746192	0.00	
4420.50†	17.795	120.432	4311.50	459.10	-376.03	640.12	3231250.55	1244552.56	40.0017277	-104.6745251	0.00	
4520.50†	17.795	120.432	4406.71	478.00	-391.51	666.47	3231277.04	1244537.33	40.0016852	-104.6744311	0.00	
4620.50†	17.795	120.432	4501.93	496.90	-406.99	692.82	3231303.54	1244522.09	40.0016427	-104.6743370	0.00	
4720.50†	17.795	120.432	4597.15	515.80	-422.47	719.17	3231330.03	1244506.86	40.0016002	-104.6742430	0.00	
4820.50†	17.795	120.432	4692.36	534.70	-437.95	745.52	3231356.52	1244491.63	40.0015578	-104.6741489	0.00	
4920.50†	17.795	120.432	4787.58	553.60	-453.43	771.88	3231383.01	1244476.39	40.0015153	-104.6740549	0.00	
5020.50†	17.795	120.432	4882.79	572.49	-468.91	798.23	3231409.50	1244461.16	40.0014728	-104.6739608	0.00	
5120.50†	17.795	120.432	4978.01	591.39	-484.39	824.58	3231436.00	1244445.93	40.0014303	-104.6738667	0.00	
5220.50†	17.795	120.432	5073.22	610.29	-499.87	850.93	3231462.49	1244430.69	40.0013878	-104.6737727	0.00	
5320.50†	17.795	120.432	5168.44	629.19	-515.35	877.28	3231488.98	1244415.46	40.0013453	-104.6736786	0.00	
5420.50†	17.795	120.432	5263.66	648.09	-530.83	903.63	3231515.47	1244400.22	40.0013028	-104.6735846	0.00	
5520.50†	17.795	120.432	5358.87	666.99	-546.31	929.98	3231541.97	1244384.99	40.0012603	-104.6734905	0.00	
5620.50†	17.795	120.432	5454.09	685.89	-561.79	956.33	3231568.46	1244369.76	40.0012178	-104.6733965	0.00	

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Facility	SEC.33-T01N-R65W	Wellbore	Desha 4-10-3L PWB
Slot	SLOT#18 Desha 4-10-3L (810'FSL & 450'FWL,SEC.33)		

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5720.50†	17.795	120.432	5549.30	704.79	-577.27	982.68	3231594.95	1244354.52	40.0011753	-104.6733024	0.00	
5820.50†	17.795	120.432	5644.52	723.69	-592.75	1009.03	3231621.44	1244339.29	40.0011328	-104.6732084	0.00	
5920.50†	17.795	120.432	5739.73	742.58	-608.23	1035.38	3231647.94	1244324.06	40.0010903	-104.6731143	0.00	
6020.50†	17.795	120.432	5834.95	761.48	-623.71	1061.73	3231674.43	1244308.82	40.0010478	-104.6730203	0.00	
6120.50†	17.795	120.432	5930.17	780.38	-639.19	1088.08	3231700.92	1244293.59	40.0010053	-104.6729262	0.00	
6220.50†	17.795	120.432	6025.38	799.28	-654.67	1114.43	3231727.41	1244278.36	40.0009628	-104.6728321	0.00	
6320.50†	17.795	120.432	6120.60	818.18	-670.14	1140.79	3231753.90	1244263.12	40.0009203	-104.6727381	0.00	
6420.50†	17.795	120.432	6215.81	837.08	-685.62	1167.14	3231780.40	1244247.89	40.0008778	-104.6726440	0.00	
6520.50†	17.795	120.432	6311.03	855.98	-701.10	1193.49	3231806.89	1244232.65	40.0008353	-104.6725500	0.00	
6620.50†	17.795	120.432	6406.24	874.88	-716.58	1219.84	3231833.38	1244217.42	40.0007928	-104.6724559	0.00	
6720.50†	17.795	120.432	6501.46	893.78	-732.06	1246.19	3231859.87	1244202.19	40.0007503	-104.6723619	0.00	
6820.50†	17.795	120.432	6596.68	912.68	-747.54	1272.54	3231886.37	1244186.95	40.0007078	-104.6722678	0.00	
6920.50†	17.795	120.432	6691.89	931.57	-763.02	1298.89	3231912.86	1244171.72	40.0006653	-104.6721738	0.00	
7020.50†	17.795	120.432	6787.11	950.47	-778.50	1325.24	3231939.35	1244156.49	40.0006228	-104.6720797	0.00	
7120.50†	17.795	120.432	6882.32	969.37	-793.98	1351.59	3231965.84	1244141.25	40.0005804	-104.6719857	0.00	
7201.26	17.795	120.432	6959.22	984.64	-806.48	1372.87	3231987.24	1244128.95	40.0005460	-104.6719097	0.00	KOP
7220.50†	19.019	126.635	6977.48	988.65	-809.84	1377.92	3231992.32	1244125.64	40.0005368	-104.6718917	12.00	
7320.50†	27.630	148.201	7069.38	1021.35	-839.38	1403.31	3232017.98	1244096.34	40.0004557	-104.6718011	12.00	
7420.50†	38.021	159.415	7153.37	1072.74	-888.10	1426.44	3232041.56	1244047.84	40.0003220	-104.6717185	12.00	
7520.50†	49.066	166.271	7225.79	1140.59	-953.86	1446.31	3232062.04	1243982.26	40.0001414	-104.6716476	12.00	
7620.50†	60.399	171.123	7283.46	1221.92	-1033.80	1462.04	3232078.51	1243902.47	39.9999220	-104.6715915	12.00	
7720.50†	71.873	174.978	7323.86	1313.19	-1124.42	1472.95	3232090.26	1243811.96	39.9996732	-104.6715526	12.00	
7820.50†	83.413	178.351	7345.23	1410.39	-1221.77	1478.56	3232096.77	1243714.68	39.9994060	-104.6715326	12.00	
7877.47	90.000	180.186	7348.50†	1466.81	-1278.60	1479.28	3232098.02	1243657.85	39.9992500	-104.6715300	12.00	LANDING
7920.50†	90.000	180.186	7348.50	1509.42	-1321.63	1479.14	3232098.28	1243614.83	39.9991319	-104.6715305	0.00	
8020.50†	90.000	180.186	7348.50	1608.46	-1421.63	1478.82	3232098.89	1243514.83	39.9988574	-104.6715317	0.00	
8120.50†	90.000	180.186	7348.50	1707.50	-1521.63	1478.49	3232099.49	1243414.84	39.9985829	-104.6715329	0.00	
8220.50†	90.000	180.186	7348.50	1806.54	-1621.63	1478.17	3232100.09	1243314.84	39.9983084	-104.6715340	0.00	
8320.50†	90.000	180.186	7348.50	1905.57	-1721.63	1477.85	3232100.70	1243214.85	39.9980339	-104.6715352	0.00	
8420.50†	90.000	180.186	7348.50	2004.61	-1821.63	1477.52	3232101.30	1243114.85	39.9977593	-104.6715364	0.00	

Planned Wellpath Report

Desha 4-10-3L PWP Rev-B.0

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REFERENCE WELLPATH IDENTIFICATION

Operator	CONFLUENCE RESOURCES	Well	Desha 4-10-3L
Field	WELD COUNTY (NAD83, TRUE NORTH)	API/Legal	
Facility	SEC.33-T01N-R65W	Wellbore	Desha 4-10-3L PWB
Slot	SLOT#18 Desha 4-10-3L (810'FSL & 450'FWL,SEC.33)		

WELLPATH DATA (183 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	7348.50	2103.65	-1921.63	1477.20	3232101.91	1243014.86	39.9974848	-104.6715376	0.00	
8620.50†	90.000	180.186	7348.50	2202.69	-2021.63	1476.87	3232102.51	1242914.86	39.9972103	-104.6715387	0.00	
8720.50†	90.000	180.186	7348.50	2301.73	-2121.63	1476.55	3232103.12	1242814.87	39.9969358	-104.6715399	0.00	
8820.50†	90.000	180.186	7348.50	2400.76	-2221.63	1476.23	3232103.72	1242714.87	39.9966613	-104.6715411	0.00	
8920.50†	90.000	180.186	7348.50	2499.80	-2321.63	1475.90	3232104.32	1242614.88	39.9963868	-104.6715423	0.00	
9020.50†	90.000	180.186	7348.50	2598.84	-2421.63	1475.58	3232104.93	1242514.89	39.9961123	-104.6715435	0.00	
9120.50†	90.000	180.186	7348.50	2697.88	-2521.63	1475.25	3232105.53	1242414.89	39.9958378	-104.6715446	0.00	
9220.50†	90.000	180.186	7348.50	2796.92	-2621.63	1474.93	3232106.14	1242314.90	39.9955633	-104.6715458	0.00	
9320.50†	90.000	180.186	7348.50	2895.96	-2721.63	1474.61	3232106.74	1242214.90	39.9952888	-104.6715470	0.00	
9420.50†	90.000	180.186	7348.50	2994.99	-2821.62	1474.28	3232107.35	1242114.91	39.9950143	-104.6715482	0.00	
9520.50†	90.000	180.186	7348.50	3094.03	-2921.62	1473.96	3232107.95	1242014.91	39.9947398	-104.6715493	0.00	
9620.50†	90.000	180.186	7348.50	3193.07	-3021.62	1473.63	3232108.56	1241914.92	39.9944653	-104.6715505	0.00	
9720.50†	90.000	180.186	7348.50	3292.11	-3121.62	1473.31	3232109.16	1241814.92	39.9941907	-104.6715517	0.00	
9820.50†	90.000	180.186	7348.50	3391.15	-3221.62	1472.99	3232109.76	1241714.93	39.9939162	-104.6715529	0.00	
9920.50†	90.000	180.186	7348.50	3490.18	-3321.62	1472.66	3232110.37	1241614.93	39.9936417	-104.6715541	0.00	
10020.50†	90.000	180.186	7348.50	3589.22	-3421.62	1472.34	3232110.97	1241514.94	39.9933672	-104.6715552	0.00	
10120.50†	90.000	180.186	7348.50	3688.26	-3521.62	1472.01	3232111.58	1241414.94	39.9930927	-104.6715564	0.00	
10220.50†	90.000	180.186	7348.50	3787.30	-3621.62	1471.69	3232112.18	1241314.95	39.9928182	-104.6715576	0.00	
10320.50†	90.000	180.186	7348.50	3886.34	-3721.62	1471.37	3232112.79	1241214.96	39.9925437	-104.6715588	0.00	
10420.50†	90.000	180.186	7348.50	3985.37	-3821.62	1471.04	3232113.39	1241114.96	39.9922692	-104.6715599	0.00	
10520.50†	90.000	180.186	7348.50	4084.41	-3921.62	1470.72	3232113.99	1241014.97	39.9919947	-104.6715611	0.00	
10620.50†	90.000	180.186	7348.50	4183.45	-4021.62	1470.39	3232114.60	1240914.97	39.9917202	-104.6715623	0.00	
10720.50†	90.000	180.186	7348.50	4282.49	-4121.62	1470.07	3232115.20	1240814.98	39.9914457	-104.6715635	0.00	
10820.50†	90.000	180.186	7348.50	4381.53	-4221.62	1469.75	3232115.81	1240714.98	39.9911712	-104.6715646	0.00	
10920.50†	90.000	180.186	7348.50	4480.57	-4321.62	1469.42	3232116.41	1240614.99	39.9908967	-104.6715658	0.00	
11020.50†	90.000	180.186	7348.50	4579.60	-4421.62	1469.10	3232117.02	1240514.99	39.9906221	-104.6715670	0.00	
11120.50†	90.000	180.186	7348.50	4678.64	-4521.62	1468.78	3232117.62	1240415.00	39.9903476	-104.6715682	0.00	
11220.50†	90.000	180.186	7348.50	4777.68	-4621.62	1468.45	3232118.23	1240315.00	39.9900731	-104.6715694	0.00	
11320.50†	90.000	180.186	7348.50	4876.72	-4721.61	1468.13	3232118.83	1240215.01	39.9897986	-104.6715705	0.00	
11420.50†	90.000	180.186	7348.50	4975.76	-4821.61	1467.80	3232119.43	1240115.02	39.9895241	-104.6715717	0.00	

REFERENCE WELLPATH IDENTIFICATION

Operator	CONFLUENCE RESOURCES	Well	Desha 4-10-3L
Field	WELD COUNTY (NAD83, TRUE NORTH)	API/Legal	
Facility	SEC.33-T01N-R65W	Wellbore	Desha 4-10-3L PWB
Slot	SLOT#18 Desha 4-10-3L (810'FSL & 450'FWL,SEC.33)		

WELLPATH DATA (183 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
11520.50†	90.000	180.186	7348.50	5074.79	-4921.61	1467.48	3232120.04	1240015.02	39.9892496	-104.6715729	0.00	
11620.50†	90.000	180.186	7348.50	5173.83	-5021.61	1467.16	3232120.64	1239915.03	39.9889751	-104.6715741	0.00	
11720.50†	90.000	180.186	7348.50	5272.87	-5121.61	1466.83	3232121.25	1239815.03	39.9887006	-104.6715752	0.00	
11820.50†	90.000	180.186	7348.50	5371.91	-5221.61	1466.51	3232121.85	1239715.04	39.9884261	-104.6715764	0.00	
11920.50†	90.000	180.186	7348.50	5470.95	-5321.61	1466.18	3232122.46	1239615.04	39.9881516	-104.6715776	0.00	
12020.50†	90.000	180.186	7348.50	5569.98	-5421.61	1465.86	3232123.06	1239515.05	39.9878771	-104.6715788	0.00	
12120.50†	90.000	180.186	7348.50	5669.02	-5521.61	1465.54	3232123.66	1239415.05	39.9876026	-104.6715800	0.00	
12220.50†	90.000	180.186	7348.50	5768.06	-5621.61	1465.21	3232124.27	1239315.06	39.9873281	-104.6715811	0.00	
12320.50†	90.000	180.186	7348.50	5867.10	-5721.61	1464.89	3232124.87	1239215.06	39.9870535	-104.6715823	0.00	
12420.50†	90.000	180.186	7348.50	5966.14	-5821.61	1464.56	3232125.48	1239115.07	39.9867790	-104.6715835	0.00	
12520.50†	90.000	180.186	7348.50	6065.18	-5921.61	1464.24	3232126.08	1239015.07	39.9865045	-104.6715847	0.00	
12620.50†	90.000	180.186	7348.50	6164.21	-6021.61	1463.92	3232126.69	1238915.08	39.9862300	-104.6715858	0.00	
12720.50†	90.000	180.186	7348.50	6263.25	-6121.61	1463.59	3232127.29	1238815.09	39.9859555	-104.6715870	0.00	
12820.50†	90.000	180.186	7348.50	6362.29	-6221.61	1463.27	3232127.90	1238715.09	39.9856810	-104.6715882	0.00	
12920.50†	90.000	180.186	7348.50	6461.33	-6321.61	1462.94	3232128.50	1238615.10	39.9854065	-104.6715894	0.00	
13020.50†	90.000	180.186	7348.50	6560.37	-6421.61	1462.62	3232129.10	1238515.10	39.9851320	-104.6715905	0.00	
13120.50†	90.000	180.186	7348.50	6659.40	-6521.61	1462.30	3232129.71	1238415.11	39.9848575	-104.6715917	0.00	
13220.50†	90.000	180.186	7348.50	6758.44	-6621.60	1461.97	3232130.31	1238315.11	39.9845830	-104.6715929	0.00	
13320.50†	90.000	180.186	7348.50	6857.48	-6721.60	1461.65	3232130.92	1238215.12	39.9843085	-104.6715941	0.00	
13420.50†	90.000	180.186	7348.50	6956.52	-6821.60	1461.32	3232131.52	1238115.12	39.9840340	-104.6715953	0.00	
13520.50†	90.000	180.186	7348.50	7055.56	-6921.60	1461.00	3232132.13	1238015.13	39.9837595	-104.6715964	0.00	
13620.50†	90.000	180.186	7348.50	7154.59	-7021.60	1460.68	3232132.73	1237915.13	39.9834849	-104.6715976	0.00	
13720.50†	90.000	180.186	7348.50	7253.63	-7121.60	1460.35	3232133.33	1237815.14	39.9832104	-104.6715988	0.00	
13820.50†	90.000	180.186	7348.50	7352.67	-7221.60	1460.03	3232133.94	1237715.14	39.9829359	-104.6716000	0.00	
13920.50†	90.000	180.186	7348.50	7451.71	-7321.60	1459.71	3232134.54	1237615.15	39.9826614	-104.6716011	0.00	
14020.50†	90.000	180.186	7348.50	7550.75	-7421.60	1459.38	3232135.15	1237515.16	39.9823869	-104.6716023	0.00	
14120.50†	90.000	180.186	7348.50	7649.79	-7521.60	1459.06	3232135.75	1237415.16	39.9821124	-104.6716035	0.00	
14220.50†	90.000	180.186	7348.50	7748.82	-7621.60	1458.73	3232136.36	1237315.17	39.9818379	-104.6716047	0.00	
14320.50†	90.000	180.186	7348.50	7847.86	-7721.60	1458.41	3232136.96	1237215.17	39.9815634	-104.6716058	0.00	
14420.50†	90.000	180.186	7348.50	7946.90	-7821.60	1458.09	3232137.57	1237115.18	39.9812889	-104.6716070	0.00	

REFERENCE WELLPATH IDENTIFICATION

Operator	CONFLUENCE RESOURCES	Well	Desha 4-10-3L
Field	WELD COUNTY (NAD83, TRUE NORTH)	API/Legal	
Facility	SEC.33-T01N-R65W	Wellbore	Desha 4-10-3L PWB
Slot	SLOT#18 Desha 4-10-3L (810'FSL & 450'FWL,SEC.33)		

WELLPATH DATA (183 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
14520.50†	90.000	180.186	7348.50	8045.94	-7921.60	1457.76	3232138.17	1237015.18	39.9810144	-104.6716082	0.00	
14620.50†	90.000	180.186	7348.50	8144.98	-8021.60	1457.44	3232138.77	1236915.19	39.9807399	-104.6716094	0.00	
14700.00	90.000	180.186	7348.50	8223.71	-8101.10	1457.18	3232139.25	1236835.69	39.9805216	-104.6716103	0.00	LAT. TARGET
14720.50†	90.000	179.776	7348.50	8244.02	-8121.60	1457.19	3232139.45	1236815.19	39.9804654	-104.6716103	2.00	
14820.50†	90.000	177.776	7348.50	8343.37	-8221.57	1459.32	3232142.52	1236715.25	39.9801909	-104.6716027	2.00	
14889.53	90.000	176.395	7348.50	8412.14	-8290.50	1462.83	3232146.67	1236646.35	39.9800017	-104.6715902	2.00	End of 3D Arc (J)
14920.50†	90.000	176.395	7348.50	8443.04	-8321.42	1464.78	3232148.90	1236615.46	39.9799168	-104.6715832	0.00	
15020.50†	90.000	176.395	7348.50	8542.77	-8421.22	1471.07	3232156.11	1236515.72	39.9796429	-104.6715608	0.00	
15120.50†	90.000	176.395	7348.50	8642.51	-8521.02	1477.36	3232163.33	1236415.99	39.9793689	-104.6715384	0.00	
15220.50†	90.000	176.395	7348.50	8742.25	-8620.82	1483.64	3232170.54	1236316.25	39.9790949	-104.6715160	0.00	
15320.50†	90.000	176.395	7348.50	8841.98	-8720.63	1489.93	3232177.75	1236216.52	39.9788210	-104.6714936	0.00	
15401.12	90.000	176.395	7348.50	8922.39	-8801.09	1495.00	3232183.57	1236136.11	39.9786001	-104.6714755	0.00	LAT. TARGET
15420.50†	90.000	176.783	7348.50	8941.71	-8820.43	1496.15	3232184.90	1236116.78	39.9785470	-104.6714714	2.00	
15520.50†	90.000	178.783	7348.50	9041.24	-8920.35	1500.02	3232189.70	1236016.90	39.9782727	-104.6714576	2.00	
15620.50†	90.000	180.783	7348.50	9140.37	-9020.35	1500.40	3232191.00	1235916.92	39.9779982	-104.6714563	2.00	
15674.13	90.000	181.855	7348.50	9193.32	-9073.96	1499.17	3232190.27	1235863.30	39.9778510	-104.6714607	2.00	End of 3D Arc (J)
15720.50†	90.000	181.855	7348.50	9239.04	-9120.31	1497.67	3232189.20	1235816.94	39.9777238	-104.6714661	0.00	
15820.50†	90.000	181.855	7348.50	9337.63	-9220.25	1494.43	3232186.89	1235716.97	39.9774494	-104.6714776	0.00	
15920.50†	90.000	181.855	7348.50	9436.23	-9320.20	1491.19	3232184.58	1235617.00	39.9771751	-104.6714892	0.00	
16020.50†	90.000	181.855	7348.50	9534.82	-9420.15	1487.95	3232182.27	1235517.03	39.9769007	-104.6715008	0.00	
16120.50†	90.000	181.855	7348.50	9633.41	-9520.10	1484.72	3232179.96	1235417.06	39.9766263	-104.6715124	0.00	
16220.50†	90.000	181.855	7348.50	9732.01	-9620.04	1481.48	3232177.65	1235317.09	39.9763520	-104.6715239	0.00	
16320.50†	90.000	181.855	7348.50	9830.60	-9719.99	1478.24	3232175.34	1235217.12	39.9760776	-104.6715355	0.00	
16420.50†	90.000	181.855	7348.50	9929.19	-9819.94	1475.00	3232173.03	1235117.15	39.9758032	-104.6715471	0.00	
16520.50†	90.000	181.855	7348.50	10027.78	-9919.89	1471.77	3232170.72	1235017.18	39.9755289	-104.6715586	0.00	
16620.50†	90.000	181.855	7348.50	10126.38	-10019.83	1468.53	3232168.41	1234917.21	39.9752545	-104.6715702	0.00	
16720.50†	90.000	181.855	7348.50	10224.97	-10119.78	1465.29	3232166.10	1234817.24	39.9749801	-104.6715818	0.00	
16820.50†	90.000	181.855	7348.50	10323.56	-10219.73	1462.05	3232163.79	1234717.27	39.9747058	-104.6715934	0.00	
16920.50†	90.000	181.855	7348.50	10422.16	-10319.68	1458.82	3232161.49	1234617.30	39.9744314	-104.6716049	0.00	
17020.50†	90.000	181.855	7348.50	10520.75	-10419.63	1455.58	3232159.18	1234517.33	39.9741571	-104.6716165	0.00	

REFERENCE WELLPATH IDENTIFICATION

Operator	CONFLUENCE RESOURCES	Well	Desha 4-10-3L
Field	WELD COUNTY (NAD83, TRUE NORTH)	API/Legal	
Facility	SEC.33-T01N-R65W	Wellbore	Desha 4-10-3L PWB
Slot	SLOT#18 Desha 4-10-3L (810'FSL & 450'FWL, SEC.33)		

WELLPATH DATA (183 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
17120.50†	90.000	181.855	7348.50	10619.34	-10519.57	1452.34	3232156.87	1234417.36	39.9738827	-104.6716281	0.00	
17220.50†	90.000	181.855	7348.50	10717.93	-10619.52	1449.10	3232154.56	1234317.39	39.9736083	-104.6716396	0.00	
17223.53	90.000	181.855	7348.50 [‡]	10720.93	-10622.55	1449.01	3232154.49	1234314.36	39.9736000	-104.6716400	0.00	TD

HOLE & CASING SECTIONS - Ref Wellbore: Desha 4-10-3L PWB Ref Wellpath: Desha 4-10-3L PWP Rev-B.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 4-10-3L
Field	WELD COUNTY (NAD83, TRUE NORTH)	API/Legal	
Facility	SEC.33-T01N-R65W	Wellbore	Desha 4-10-3L PWB
Slot	SLOT#18 Desha 4-10-3L (810'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	-123.86	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	-123.86	2.80	3230610.94	1244798.80	40.0024200	-104.6768000	polygon
2D Polygon: dimensions not calculated									
SEC.09-T01S-R65W	N/A	0.00	-123.86	2.80	3230610.94	1244798.80	40.0024200	-104.6768000	polygon
2D Polygon: dimensions not calculated									
2) Desha 4-10-3L BHL REV-1 (470'FSL & 1912'FWL,SEC.09)	17223.53	7348.50	-10622.55	1449.01	3232154.49	1234314.36	39.9736000	-104.6716400	point
1) Desha 4-10-3L LP REV-1 (470'FNL & 1912'FWL,SEC.04)	7877.47	7348.50	-1278.60	1479.28	3232098.02	1243657.85	39.9992500	-104.6715300	point

SURVEY PROGRAM - Ref Wellbore: Desha 4-10-3L PWB Ref Wellpath: Desha 4-10-3L PWP Rev-B.0

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
20.50	1500.00	BH NaviTrak (2019) (Axial)		Desha 4-10-3L PWB
1500.00	17223.53	BH AutoTrak Curve/eXpress (2019) (Short spacing)		Desha 4-10-3L PWB

REFERENCE WELLPATH IDENTIFICATION

Operator	CONFLUENCE RESOURCES	Well	Desha 4-10-3L
Field	WELD COUNTY (NAD83, TRUE NORTH)	API/Legal	
Facility	SEC.33-T01N-R65W	Wellbore	Desha 4-10-3L PWB
Slot	SLOT#18 Desha 4-10-3L (810'FSL & 450'FWL,SEC.33)		

DESIGN COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
20.50	0.000	120.432	20.50	Tie On
1550.00	0.000	120.432	1550.00	End of Tangent
2439.74	17.795	120.432	2425.51	End of Build
7201.26	17.795	120.432	6959.22	KOP
7877.47	90.000	180.186	7348.50	LANDING
14700.00	90.000	180.186	7348.50	LAT. TARGET
14889.53	90.000	176.395	7348.50	End of 3D Arc (J)
15401.12	90.000	176.395	7348.50	LAT. TARGET
15674.13	90.000	181.855	7348.50	End of 3D Arc (J)
17223.53	90.000	181.855	7348.50	TD