



Well: Middlepark 18-03-4L  
Site: Section 18-T04N-R62W  
Project: Weld County, Colorado  
Wellbore: Original Hole  
Design: plan2

#### Section Details

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	Vsect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	KOP Begin 2°/100' build
3	3298.66	25.97	109.50	3254.64	-96.57	272.76	2.00	-59.05	Begin 25.97° tangent
4	6184.41	25.97	109.50	5848.92	-518.37	1464.11	0.00	-316.99	Begin 10°/100' build
5	7178.14	90.00	357.67	6456.00	57.66	1715.39	10.00	287.57	LP Begin 90° lateral
6	16869.98	90.00	357.67	6456.00	9741.46	1320.55	0.00	9830.56	PBHL/TD 16869.98 MD/6456.00 TVD

#### DESIGN TARGET DETAILS

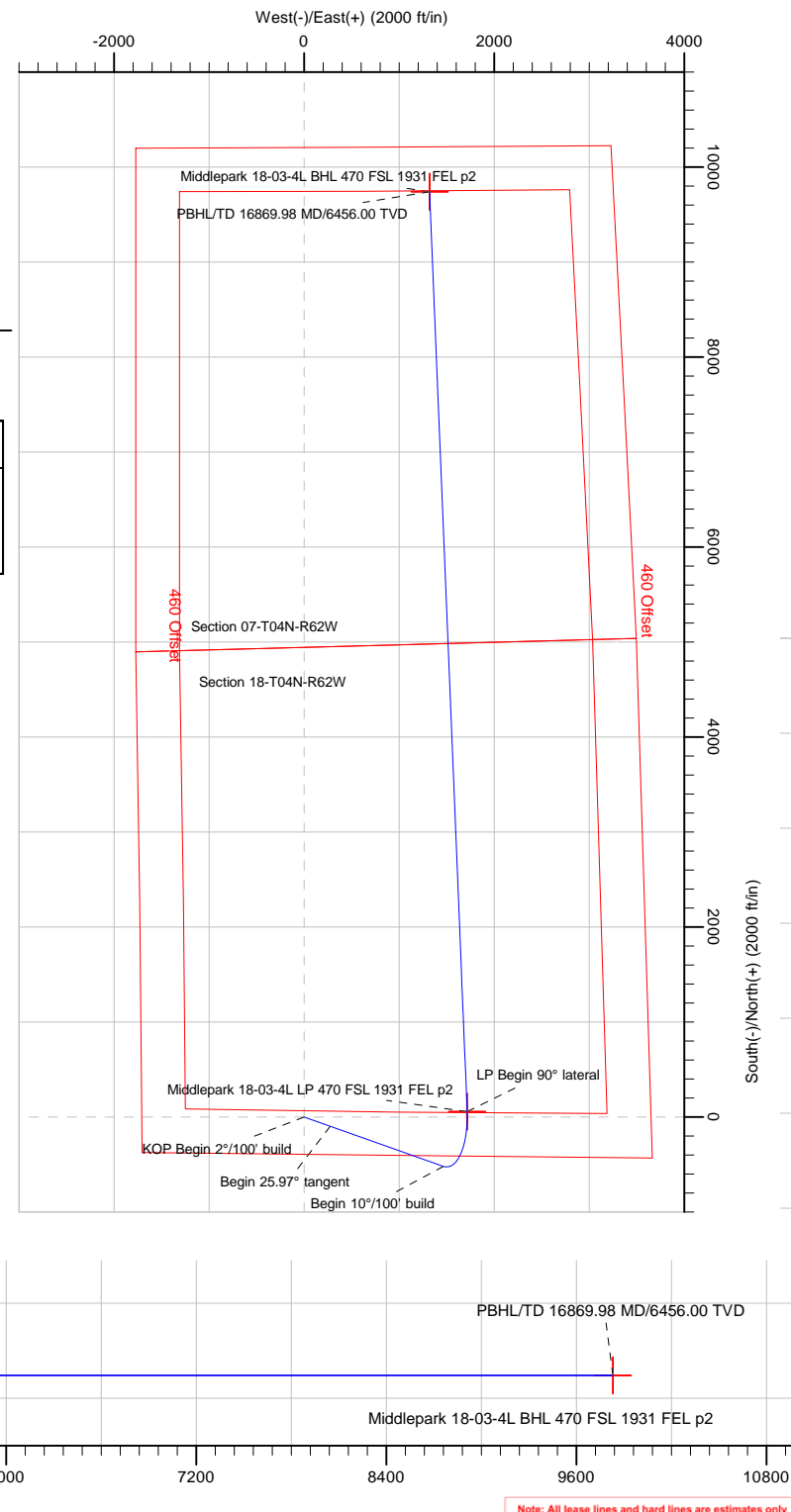
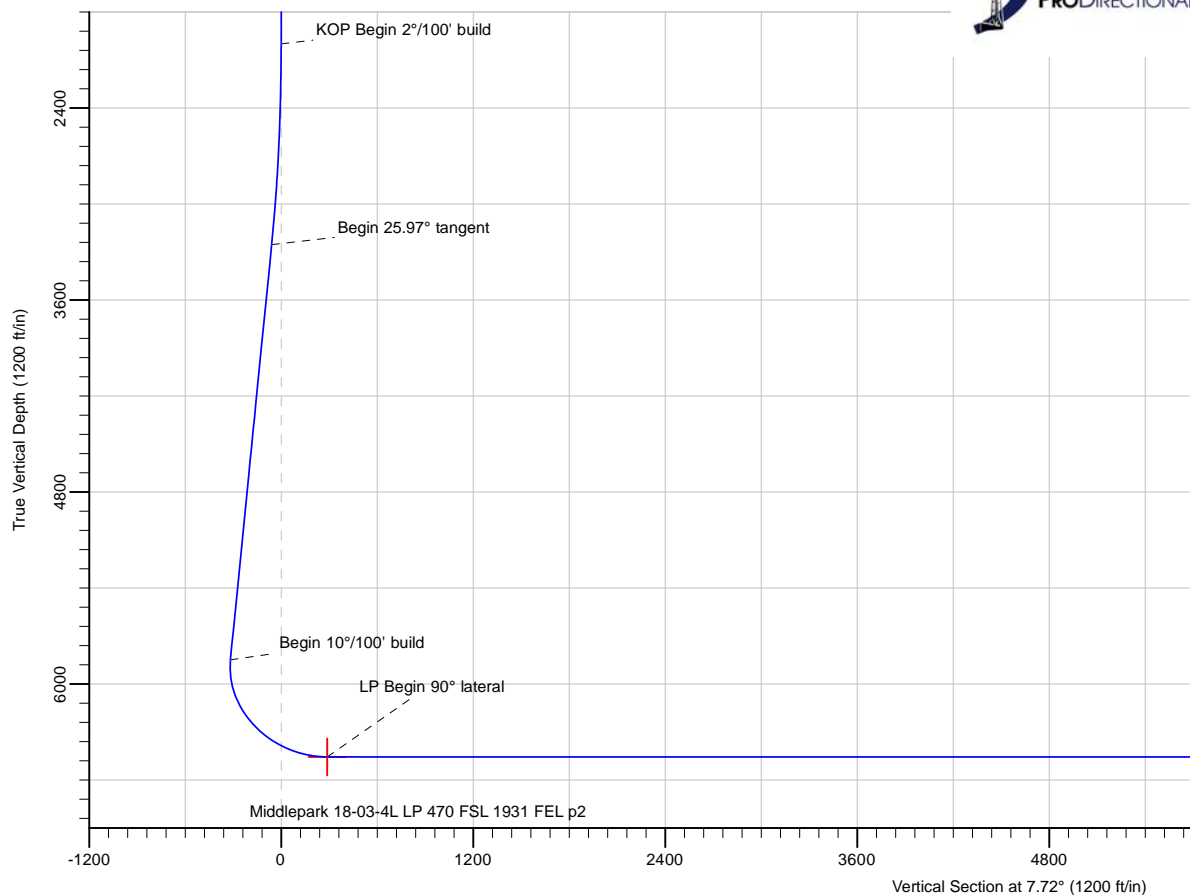
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Middlepark 18-03-4L BHL 470 FSL 1931 FEL p2	6456.00	9741.46	1320.55	14648630.73	1817191.13	40.33300456	-104.36568759
Middlepark 18-03-4L LP 470 FSL 1931 FEL p2	6456.00	57.66	1715.39	14638950.00	1817654.79	40.30641338	-104.36427334



Azimuths to True North  
Magnetic North: 8.18°

Magnetic Field  
Strength: 52247.5snT  
Dip Angle: 66.90°  
Date: 4/22/2018  
Model: HDGM

Middlepark 18-03-4L Surf loc: 393 FSL 1708 FWL Section 18-T04N-R62W			
NAD83 Colorado - HARN Universal Transverse Mercator (US Survey Feet) Zone 13N (108 W to 102 W) RKB=4557+21 @ 4581.00ft			
Northing	Easting	Latitude	Longitude
14638880.15	1815939.86	40.30625522	-104.37042597



Note: All lease lines and hard lines are estimates only and are subject to customers approval.

<b>Database:</b>	DB_Jul2216dt_v14	<b>Local Co-ordinate Reference:</b>	Well Middlepark 18-03-4L
<b>Company:</b>	Confluence Resources	<b>TVD Reference:</b>	RKB=4557+21 @ 4581.00ft
<b>Project:</b>	Weld County, Colorado	<b>MD Reference:</b>	RKB=4557+21 @ 4581.00ft
<b>Site:</b>	Section 18-T04N-R62W	<b>North Reference:</b>	True
<b>Well:</b>	Middlepark 18-03-4L	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	plan2		

<b>Project</b>	Weld County, Colorado		
<b>Map System:</b>	Universal Transverse Mercator (US Survey Feet)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD83 Colorado - HARN		
<b>Map Zone:</b>	Zone 13N (108 W to 102 W)		

Site		Section 18-T04N-R62W			
Site Position:		Northing:	14,641,153.41 usft	Latitude:	40.31252000
From:	Lat/Long	Easting:	1,814,773.97 usft	Longitude:	-104.37455000
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.40 °

Well	Middlepark 18-03-4L, Surf loc: 393 FSL 1708 FWL Section 18-T04N-R62W					
Well Position	+N/-S	-2,281.44 ft	Northing:	14,638,880.15 usft	Latitude:	40.30625522
	+E/-W	1,149.80 ft	Easting:	1,815,939.86 usft	Longitude:	-104.37042597
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,557.00 ft

<b>Wellbore</b>	Original Hole				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	HDGM	4/22/2018	8.18	66.90	52,247.50000000

<b>Design</b>	plan2			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	7.72

<b>Plan Survey Tool Program</b>	<b>Date</b>	4/26/2018		
<b>Depth From (ft)</b>	<b>Depth To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.00	16,869.98	plan2 (Original Hole)	

<b>Plan Sections</b>										
<b>Measured Depth (ft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Dogleg Rate (°/100ft)</b>	<b>Build Rate (°/100ft)</b>	<b>Turn Rate (°/100ft)</b>	<b>TFO (°)</b>	<b>Target</b>
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,298.66	25.97	109.50	3,254.64	-96.57	272.76	2.00	2.00	0.00	109.50	
6,184.41	25.97	109.50	5,848.92	-518.37	1,464.11	0.00	0.00	0.00	0.00	
7,178.14	90.00	357.67	6,456.00	57.66	1,715.39	10.00	6.44	-11.25	-109.81	Middlepark 18-03-4L I
16,869.98	90.00	357.67	6,456.00	9,741.46	1,320.55	0.00	0.00	0.00	0.00	Middlepark 18-03-4L I

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<b>Company:</b>	Confluence Resources	<b>TVD Reference:</b>	RKB=4557+21 @ 4581.00ft
<b>Project:</b>	Weld County, Colorado	<b>MD Reference:</b>	RKB=4557+21 @ 4581.00ft
<b>Site:</b>	Section 18-T04N-R62W	<b>North Reference:</b>	True
<b>Well:</b>	Middlepark 18-03-4L	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	plan2		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>KOP Begin 2°/100' build</b>									
2,100.00	2.00	109.50	2,099.98	-0.58	1.65	-0.36	2.00	2.00	0.00
2,200.00	4.00	109.50	2,199.84	-2.33	6.58	-1.42	2.00	2.00	0.00
2,300.00	6.00	109.50	2,299.45	-5.24	14.79	-3.20	2.00	2.00	0.00
2,400.00	8.00	109.50	2,398.70	-9.30	26.28	-5.69	2.00	2.00	0.00
2,500.00	10.00	109.50	2,497.47	-14.53	41.03	-8.88	2.00	2.00	0.00
2,600.00	12.00	109.50	2,595.62	-20.89	59.01	-12.78	2.00	2.00	0.00
2,700.00	14.00	109.50	2,693.06	-28.40	80.22	-17.37	2.00	2.00	0.00
2,800.00	16.00	109.50	2,789.64	-37.04	104.61	-22.65	2.00	2.00	0.00
2,900.00	18.00	109.50	2,885.27	-46.80	132.17	-28.62	2.00	2.00	0.00
3,000.00	20.00	109.50	2,979.82	-57.66	162.86	-35.26	2.00	2.00	0.00
3,100.00	22.00	109.50	3,073.17	-69.62	196.64	-42.57	2.00	2.00	0.00
3,200.00	24.00	109.50	3,165.21	-82.66	233.47	-50.55	2.00	2.00	0.00
3,298.66	25.97	109.50	3,254.64	-96.57	272.76	-59.05	2.00	2.00	0.00
<b>Begin 25.97° tangent</b>									
3,300.00	25.97	109.50	3,255.84	-96.76	273.31	-59.17	0.01	0.01	0.00
3,400.00	25.97	109.50	3,345.74	-111.38	314.59	-68.11	0.00	0.00	0.00
3,500.00	25.97	109.50	3,435.64	-126.00	355.88	-77.05	0.00	0.00	0.00
3,600.00	25.97	109.50	3,525.54	-140.61	397.16	-85.99	0.00	0.00	0.00
3,700.00	25.97	109.50	3,615.44	-155.23	438.45	-94.93	0.00	0.00	0.00
3,800.00	25.97	109.50	3,705.34	-169.85	479.73	-103.87	0.00	0.00	0.00
3,900.00	25.97	109.50	3,795.24	-184.46	521.01	-112.80	0.00	0.00	0.00
4,000.00	25.97	109.50	3,885.14	-199.08	562.30	-121.74	0.00	0.00	0.00
4,100.00	25.97	109.50	3,975.04	-213.70	603.58	-130.68	0.00	0.00	0.00
4,200.00	25.97	109.50	4,064.94	-228.31	644.87	-139.62	0.00	0.00	0.00
4,300.00	25.97	109.50	4,154.84	-242.93	686.15	-148.56	0.00	0.00	0.00
4,400.00	25.97	109.50	4,244.74	-257.55	727.43	-157.49	0.00	0.00	0.00
4,500.00	25.97	109.50	4,334.64	-272.16	768.72	-166.43	0.00	0.00	0.00
4,600.00	25.97	109.50	4,424.54	-286.78	810.00	-175.37	0.00	0.00	0.00
4,700.00	25.97	109.50	4,514.44	-301.40	851.29	-184.31	0.00	0.00	0.00
4,800.00	25.97	109.50	4,604.34	-316.01	892.57	-193.25	0.00	0.00	0.00
4,900.00	25.97	109.50	4,694.24	-330.63	933.85	-202.19	0.00	0.00	0.00

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<b>Company:</b>	Confluence Resources	<b>TVD Reference:</b>	RKB=4557+21 @ 4581.00ft
<b>Project:</b>	Weld County, Colorado	<b>MD Reference:</b>	RKB=4557+21 @ 4581.00ft
<b>Site:</b>	Section 18-T04N-R62W	<b>North Reference:</b>	True
<b>Well:</b>	Middlepark 18-03-4L	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	plan2		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,000.00	25.97	109.50	4,784.14	-345.25	975.14	-211.12	0.00	0.00	0.00
5,100.00	25.97	109.50	4,874.04	-359.86	1,016.42	-220.06	0.00	0.00	0.00
5,200.00	25.97	109.50	4,963.94	-374.48	1,057.71	-229.00	0.00	0.00	0.00
5,300.00	25.97	109.50	5,053.84	-389.10	1,098.99	-237.94	0.00	0.00	0.00
5,400.00	25.97	109.50	5,143.74	-403.71	1,140.28	-246.88	0.00	0.00	0.00
5,500.00	25.97	109.50	5,233.64	-418.33	1,181.56	-255.82	0.00	0.00	0.00
5,600.00	25.97	109.50	5,323.54	-432.95	1,222.84	-264.75	0.00	0.00	0.00
5,700.00	25.97	109.50	5,413.44	-447.56	1,264.13	-273.69	0.00	0.00	0.00
5,800.00	25.97	109.50	5,503.34	-462.18	1,305.41	-282.63	0.00	0.00	0.00
5,900.00	25.97	109.50	5,593.24	-476.79	1,346.70	-291.57	0.00	0.00	0.00
6,000.00	25.97	109.50	5,683.14	-491.41	1,387.98	-300.51	0.00	0.00	0.00
6,100.00	25.97	109.50	5,773.04	-506.03	1,429.26	-309.45	0.00	0.00	0.00
6,184.41	25.97	109.50	5,848.92	-518.37	1,464.11	-316.99	0.00	0.00	0.00
<b>Begin 10°/100' build</b>									
6,200.00	25.48	106.09	5,862.97	-520.43	1,470.55	-318.18	10.00	-3.14	-21.88
6,300.00	24.43	82.37	5,953.86	-523.66	1,511.82	-315.83	10.00	-1.06	-23.71
6,400.00	27.05	60.01	6,044.14	-509.51	1,552.11	-296.40	10.00	2.62	-22.37
6,500.00	32.47	42.96	6,131.08	-478.42	1,590.19	-260.48	10.00	5.42	-17.04
6,600.00	39.54	30.88	6,212.03	-431.34	1,624.90	-209.16	10.00	7.08	-12.08
6,700.00	47.53	22.11	6,284.53	-369.69	1,655.20	-143.99	10.00	7.99	-8.76
6,800.00	56.04	15.40	6,346.37	-295.35	1,680.16	-66.97	10.00	8.50	-6.72
6,900.00	64.84	9.93	6,395.69	-210.57	1,699.03	19.57	10.00	8.80	-5.47
7,000.00	73.81	5.21	6,430.97	-117.94	1,711.22	113.00	10.00	8.97	-4.72
7,100.00	82.88	0.90	6,451.15	-20.26	1,716.37	210.48	10.00	9.07	-4.31
7,178.14	90.00	357.67	6,456.00	57.66	1,715.39	287.57	10.00	9.11	-4.14
<b>LP Begin 90° lateral</b>									
7,200.00	90.00	357.67	6,456.00	79.50	1,714.50	309.09	0.00	0.00	0.00
7,300.00	90.00	357.67	6,456.00	179.42	1,710.42	407.56	0.00	0.00	0.00
7,400.00	90.00	357.67	6,456.00	279.34	1,706.35	506.02	0.00	0.00	0.00
7,500.00	90.00	357.67	6,456.00	379.25	1,702.27	604.48	0.00	0.00	0.00
7,600.00	90.00	357.67	6,456.00	479.17	1,698.20	702.95	0.00	0.00	0.00
7,700.00	90.00	357.67	6,456.00	579.09	1,694.13	801.41	0.00	0.00	0.00
7,800.00	90.00	357.67	6,456.00	679.00	1,690.05	899.88	0.00	0.00	0.00
7,900.00	90.00	357.67	6,456.00	778.92	1,685.98	998.34	0.00	0.00	0.00
8,000.00	90.00	357.67	6,456.00	878.84	1,681.91	1,096.80	0.00	0.00	0.00
8,100.00	90.00	357.67	6,456.00	978.75	1,677.83	1,195.27	0.00	0.00	0.00
8,200.00	90.00	357.67	6,456.00	1,078.67	1,673.76	1,293.73	0.00	0.00	0.00
8,300.00	90.00	357.67	6,456.00	1,178.59	1,669.68	1,392.20	0.00	0.00	0.00
8,400.00	90.00	357.67	6,456.00	1,278.51	1,665.61	1,490.66	0.00	0.00	0.00
8,500.00	90.00	357.67	6,456.00	1,378.42	1,661.54	1,589.13	0.00	0.00	0.00
8,600.00	90.00	357.67	6,456.00	1,478.34	1,657.46	1,687.59	0.00	0.00	0.00
8,700.00	90.00	357.67	6,456.00	1,578.26	1,653.39	1,786.05	0.00	0.00	0.00
8,800.00	90.00	357.67	6,456.00	1,678.17	1,649.31	1,884.52	0.00	0.00	0.00
8,900.00	90.00	357.67	6,456.00	1,778.09	1,645.24	1,982.98	0.00	0.00	0.00
9,000.00	90.00	357.67	6,456.00	1,878.01	1,641.17	2,081.45	0.00	0.00	0.00
9,100.00	90.00	357.67	6,456.00	1,977.92	1,637.09	2,179.91	0.00	0.00	0.00
9,200.00	90.00	357.67	6,456.00	2,077.84	1,633.02	2,278.37	0.00	0.00	0.00
9,300.00	90.00	357.67	6,456.00	2,177.76	1,628.94	2,376.84	0.00	0.00	0.00
9,400.00	90.00	357.67	6,456.00	2,277.68	1,624.87	2,475.30	0.00	0.00	0.00
9,500.00	90.00	357.67	6,456.00	2,377.59	1,620.80	2,573.77	0.00	0.00	0.00
9,600.00	90.00	357.67	6,456.00	2,477.51	1,616.72	2,672.23	0.00	0.00	0.00
9,700.00	90.00	357.67	6,456.00	2,577.43	1,612.65	2,770.70	0.00	0.00	0.00
9,800.00	90.00	357.67	6,456.00	2,677.34	1,608.58	2,869.16	0.00	0.00	0.00
9,900.00	90.00	357.67	6,456.00	2,777.26	1,604.50	2,967.62	0.00	0.00	0.00

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<b>Project:</b>	Weld County, Colorado	<b>MD Reference:</b>	RKB=4557+21 @ 4581.00ft
<b>Site:</b>	Section 18-T04N-R62W	<b>North Reference:</b>	True
<b>Well:</b>	Middlepark 18-03-4L	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	plan2		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,000.00	90.00	357.67	6,456.00	2,877.18	1,600.43	3,066.09	0.00	0.00	0.00
10,100.00	90.00	357.67	6,456.00	2,977.09	1,596.35	3,164.55	0.00	0.00	0.00
10,200.00	90.00	357.67	6,456.00	3,077.01	1,592.28	3,263.02	0.00	0.00	0.00
10,300.00	90.00	357.67	6,456.00	3,176.93	1,588.21	3,361.48	0.00	0.00	0.00
10,400.00	90.00	357.67	6,456.00	3,276.85	1,584.13	3,459.94	0.00	0.00	0.00
10,500.00	90.00	357.67	6,456.00	3,376.76	1,580.06	3,558.41	0.00	0.00	0.00
10,600.00	90.00	357.67	6,456.00	3,476.68	1,575.98	3,656.87	0.00	0.00	0.00
10,700.00	90.00	357.67	6,456.00	3,576.60	1,571.91	3,755.34	0.00	0.00	0.00
10,800.00	90.00	357.67	6,456.00	3,676.51	1,567.84	3,853.80	0.00	0.00	0.00
10,900.00	90.00	357.67	6,456.00	3,776.43	1,563.76	3,952.26	0.00	0.00	0.00
11,000.00	90.00	357.67	6,456.00	3,876.35	1,559.69	4,050.73	0.00	0.00	0.00
11,100.00	90.00	357.67	6,456.00	3,976.26	1,555.61	4,149.19	0.00	0.00	0.00
11,200.00	90.00	357.67	6,456.00	4,076.18	1,551.54	4,247.66	0.00	0.00	0.00
11,300.00	90.00	357.67	6,456.00	4,176.10	1,547.47	4,346.12	0.00	0.00	0.00
11,400.00	90.00	357.67	6,456.00	4,276.02	1,543.39	4,444.59	0.00	0.00	0.00
11,500.00	90.00	357.67	6,456.00	4,375.93	1,539.32	4,543.05	0.00	0.00	0.00
11,600.00	90.00	357.67	6,456.00	4,475.85	1,535.25	4,641.51	0.00	0.00	0.00
11,700.00	90.00	357.67	6,456.00	4,575.77	1,531.17	4,739.98	0.00	0.00	0.00
11,800.00	90.00	357.67	6,456.00	4,675.68	1,527.10	4,838.44	0.00	0.00	0.00
11,900.00	90.00	357.67	6,456.00	4,775.60	1,523.02	4,936.91	0.00	0.00	0.00
12,000.00	90.00	357.67	6,456.00	4,875.52	1,518.95	5,035.37	0.00	0.00	0.00
12,100.00	90.00	357.67	6,456.00	4,975.43	1,514.88	5,133.83	0.00	0.00	0.00
12,200.00	90.00	357.67	6,456.00	5,075.35	1,510.80	5,232.30	0.00	0.00	0.00
12,300.00	90.00	357.67	6,456.00	5,175.27	1,506.73	5,330.76	0.00	0.00	0.00
12,400.00	90.00	357.67	6,456.00	5,275.18	1,502.65	5,429.23	0.00	0.00	0.00
12,500.00	90.00	357.67	6,456.00	5,375.10	1,498.58	5,527.69	0.00	0.00	0.00
12,600.00	90.00	357.67	6,456.00	5,475.02	1,494.51	5,626.16	0.00	0.00	0.00
12,700.00	90.00	357.67	6,456.00	5,574.94	1,490.43	5,724.62	0.00	0.00	0.00
12,800.00	90.00	357.67	6,456.00	5,674.85	1,486.36	5,823.08	0.00	0.00	0.00
12,900.00	90.00	357.67	6,456.00	5,774.77	1,482.28	5,921.55	0.00	0.00	0.00
13,000.00	90.00	357.67	6,456.00	5,874.69	1,478.21	6,020.01	0.00	0.00	0.00
13,100.00	90.00	357.67	6,456.00	5,974.60	1,474.14	6,118.48	0.00	0.00	0.00
13,200.00	90.00	357.67	6,456.00	6,074.52	1,470.06	6,216.94	0.00	0.00	0.00
13,300.00	90.00	357.67	6,456.00	6,174.44	1,465.99	6,315.40	0.00	0.00	0.00
13,400.00	90.00	357.67	6,456.00	6,274.35	1,461.92	6,413.87	0.00	0.00	0.00
13,500.00	90.00	357.67	6,456.00	6,374.27	1,457.84	6,512.33	0.00	0.00	0.00
13,600.00	90.00	357.67	6,456.00	6,474.19	1,453.77	6,610.80	0.00	0.00	0.00
13,700.00	90.00	357.67	6,456.00	6,574.11	1,449.69	6,709.26	0.00	0.00	0.00
13,800.00	90.00	357.67	6,456.00	6,674.02	1,445.62	6,807.72	0.00	0.00	0.00
13,900.00	90.00	357.67	6,456.00	6,773.94	1,441.55	6,906.19	0.00	0.00	0.00
14,000.00	90.00	357.67	6,456.00	6,873.86	1,437.47	7,004.65	0.00	0.00	0.00
14,100.00	90.00	357.67	6,456.00	6,973.77	1,433.40	7,103.12	0.00	0.00	0.00
14,200.00	90.00	357.67	6,456.00	7,073.69	1,429.32	7,201.58	0.00	0.00	0.00
14,300.00	90.00	357.67	6,456.00	7,173.61	1,425.25	7,300.05	0.00	0.00	0.00
14,400.00	90.00	357.67	6,456.00	7,273.52	1,421.18	7,398.51	0.00	0.00	0.00
14,500.00	90.00	357.67	6,456.00	7,373.44	1,417.10	7,496.97	0.00	0.00	0.00
14,600.00	90.00	357.67	6,456.00	7,473.36	1,413.03	7,595.44	0.00	0.00	0.00
14,700.00	90.00	357.67	6,456.00	7,573.28	1,408.96	7,693.90	0.00	0.00	0.00
14,800.00	90.00	357.67	6,456.00	7,673.19	1,404.88	7,792.37	0.00	0.00	0.00
14,900.00	90.00	357.67	6,456.00	7,773.11	1,400.81	7,890.83	0.00	0.00	0.00
15,000.00	90.00	357.67	6,456.00	7,873.03	1,396.73	7,989.29	0.00	0.00	0.00
15,100.00	90.00	357.67	6,456.00	7,972.94	1,392.66	8,087.76	0.00	0.00	0.00
15,200.00	90.00	357.67	6,456.00	8,072.86	1,388.59	8,186.22	0.00	0.00	0.00
15,300.00	90.00	357.67	6,456.00	8,172.78	1,384.51	8,284.69	0.00	0.00	0.00

<b>Database:</b>	DB_Jul2216dt_v14	<b>Local Co-ordinate Reference:</b>	Well Middlepark 18-03-4L
<b>Company:</b>	Confluence Resources	<b>TVD Reference:</b>	RKB=4557+21 @ 4581.00ft
<b>Project:</b>	Weld County, Colorado	<b>MD Reference:</b>	RKB=4557+21 @ 4581.00ft
<b>Site:</b>	Section 18-T04N-R62W	<b>North Reference:</b>	True
<b>Well:</b>	Middlepark 18-03-4L	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	plan2		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
15,400.00	90.00	357.67	6,456.00	8,272.69	1,380.44	8,383.15	0.00	0.00	0.00	
15,500.00	90.00	357.67	6,456.00	8,372.61	1,376.36	8,481.61	0.00	0.00	0.00	
15,600.00	90.00	357.67	6,456.00	8,472.53	1,372.29	8,580.08	0.00	0.00	0.00	
15,700.00	90.00	357.67	6,456.00	8,572.45	1,368.22	8,678.54	0.00	0.00	0.00	
15,800.00	90.00	357.67	6,456.00	8,672.36	1,364.14	8,777.01	0.00	0.00	0.00	
15,900.00	90.00	357.67	6,456.00	8,772.28	1,360.07	8,875.47	0.00	0.00	0.00	
16,000.00	90.00	357.67	6,456.00	8,872.20	1,355.99	8,973.94	0.00	0.00	0.00	
16,100.00	90.00	357.67	6,456.00	8,972.11	1,351.92	9,072.40	0.00	0.00	0.00	
16,200.00	90.00	357.67	6,456.00	9,072.03	1,347.85	9,170.86	0.00	0.00	0.00	
16,300.00	90.00	357.67	6,456.00	9,171.95	1,343.77	9,269.33	0.00	0.00	0.00	
16,400.00	90.00	357.67	6,456.00	9,271.86	1,339.70	9,367.79	0.00	0.00	0.00	
16,500.00	90.00	357.67	6,456.00	9,371.78	1,335.63	9,466.26	0.00	0.00	0.00	
16,600.00	90.00	357.67	6,456.00	9,471.70	1,331.55	9,564.72	0.00	0.00	0.00	
16,700.00	90.00	357.67	6,456.00	9,571.62	1,327.48	9,663.18	0.00	0.00	0.00	
16,800.00	90.00	357.67	6,456.00	9,671.53	1,323.40	9,761.65	0.00	0.00	0.00	
16,869.98	90.00	357.67	6,456.00	9,741.45	1,320.55	9,830.55	0.00	0.00	0.00	
PBHL/TD 16869.98 MD/6456.00 TVD										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
Middlepark 18-03-4L LP	0.00	0.00	6,456.00	57.66	1,715.39	14,638,950.00	1,817,654.79	40.30641339	-104.36427334	
- plan hits target center										
- Point										
Middlepark 18-03-4L BH	0.00	0.00	6,456.00	9,741.46	1,320.55	14,648,630.73	1,817,191.13	40.33300456	-104.36568759	
- plan hits target center										
- Point										

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
2,000.00	2,000.00	0.00	0.00	KOP Begin 2°/100' build	
3,298.66	3,254.64	-96.57	272.76	Begin 25.97° tangent	
6,184.41	5,848.92	-518.37	1,464.11	Begin 10°/100' build	
7,178.14	6,456.00	57.66	1,715.39	LP Begin 90° lateral	
16,869.98	6,456.00	9,741.45	1,320.55	PBHL/TD 16869.98 MD/6456.00 TVD	

<b>Database:</b>	DB_Jul2216dt_v14	<b>Local Co-ordinate Reference:</b>	Well Middlepark 18-03-4L
<b>Company:</b>	Confluence Resources	<b>TVD Reference:</b>	RKB=4557+21 @ 4581.00ft
<b>Project:</b>	Weld County, Colorado	<b>MD Reference:</b>	RKB=4557+21 @ 4581.00ft
<b>Site:</b>	Section 18-T04N-R62W	<b>North Reference:</b>	True
<b>Well:</b>	Middlepark 18-03-4L	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	plan2		

<b>Project</b>	Weld County, Colorado		
<b>Map System:</b>	Universal Transverse Mercator (US Survey Feet)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD83 Colorado - HARN		
<b>Map Zone:</b>	Zone 13N (108 W to 102 W)		

Site		Section 18-T04N-R62W			
Site Position:		Northing:	14,641,153.41 usft	Latitude:	40.31252000
From:	Lat/Long	Easting:	1,814,773.97 usft	Longitude:	-104.37455000
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.40 °

Well	Middlepark 18-03-4L, Surf loc: 393 FSL 1708 FWL Section 18-T04N-R62W					
Well Position	+N/-S	0.00 ft	Northing:	14,638,880.15 usft	Latitude:	40.30625522
	+E/-W	0.00 ft	Easting:	1,815,939.86 usft	Longitude:	-104.37042597
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,557.00 ft

<b>Wellbore</b>	Original Hole				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	HDGM	4/22/2018	8.18	66.90	52,247.50000000

<b>Design</b>	plan2			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	7.72

<b>Plan Survey Tool Program</b>	<b>Date</b>	4/26/2018		
<b>Depth From (ft)</b>	<b>Depth To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.00	16,869.98 plan2 (Original Hole)		

<b>Plan Sections</b>										
<b>Measured Depth (ft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Dogleg Rate (°/100ft)</b>	<b>Build Rate (°/100ft)</b>	<b>Turn Rate (°/100ft)</b>	<b>TFO (°)</b>	<b>Target</b>
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,298.66	25.97	109.50	3,254.64	-96.57	272.76	2.00	2.00	0.00	109.50	
6,184.41	25.97	109.50	5,848.92	-518.37	1,464.11	0.00	0.00	0.00	0.00	
7,178.14	90.00	357.67	6,456.00	57.66	1,715.39	10.00	6.44	-11.25	-109.81	Middlepark 18-03-4L I
16,869.98	90.00	357.67	6,456.00	9,741.46	1,320.55	0.00	0.00	0.00	0.00	Middlepark 18-03-4L I



<b>Database:</b>	DB_Jul2216dt_v14	<b>Local Co-ordinate Reference:</b>	Well Middlepark 18-03-4L
<b>Company:</b>	Confluence Resources	<b>TVD Reference:</b>	RKB=4557+21 @ 4581.00ft
<b>Project:</b>	Weld County, Colorado	<b>MD Reference:</b>	RKB=4557+21 @ 4581.00ft
<b>Site:</b>	Section 18-T04N-R62W	<b>North Reference:</b>	True
<b>Well:</b>	Middlepark 18-03-4L	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	plan2		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,638,880.15	1,815,939.86	40.30625522	-104.37042597
100.00	0.00	0.00	100.00	0.00	0.00	14,638,880.15	1,815,939.86	40.30625522	-104.37042597
200.00	0.00	0.00	200.00	0.00	0.00	14,638,880.15	1,815,939.86	40.30625522	-104.37042597
300.00	0.00	0.00	300.00	0.00	0.00	14,638,880.15	1,815,939.86	40.30625522	-104.37042597
400.00	0.00	0.00	400.00	0.00	0.00	14,638,880.15	1,815,939.86	40.30625522	-104.37042597
500.00	0.00	0.00	500.00	0.00	0.00	14,638,880.15	1,815,939.86	40.30625522	-104.37042597
600.00	0.00	0.00	600.00	0.00	0.00	14,638,880.15	1,815,939.86	40.30625522	-104.37042597
700.00	0.00	0.00	700.00	0.00	0.00	14,638,880.15	1,815,939.86	40.30625522	-104.37042597
800.00	0.00	0.00	800.00	0.00	0.00	14,638,880.15	1,815,939.86	40.30625522	-104.37042597
900.00	0.00	0.00	900.00	0.00	0.00	14,638,880.15	1,815,939.86	40.30625522	-104.37042597
1,000.00	0.00	0.00	1,000.00	0.00	0.00	14,638,880.15	1,815,939.86	40.30625522	-104.37042597
1,100.00	0.00	0.00	1,100.00	0.00	0.00	14,638,880.15	1,815,939.86	40.30625522	-104.37042597
1,200.00	0.00	0.00	1,200.00	0.00	0.00	14,638,880.15	1,815,939.86	40.30625522	-104.37042597
1,300.00	0.00	0.00	1,300.00	0.00	0.00	14,638,880.15	1,815,939.86	40.30625522	-104.37042597
1,400.00	0.00	0.00	1,400.00	0.00	0.00	14,638,880.15	1,815,939.86	40.30625522	-104.37042597
1,500.00	0.00	0.00	1,500.00	0.00	0.00	14,638,880.15	1,815,939.86	40.30625522	-104.37042597
1,600.00	0.00	0.00	1,600.00	0.00	0.00	14,638,880.15	1,815,939.86	40.30625522	-104.37042597
1,700.00	0.00	0.00	1,700.00	0.00	0.00	14,638,880.15	1,815,939.86	40.30625522	-104.37042597
1,800.00	0.00	0.00	1,800.00	0.00	0.00	14,638,880.15	1,815,939.86	40.30625522	-104.37042597
1,900.00	0.00	0.00	1,900.00	0.00	0.00	14,638,880.15	1,815,939.86	40.30625522	-104.37042597
2,000.00	0.00	0.00	2,000.00	0.00	0.00	14,638,880.15	1,815,939.86	40.30625522	-104.37042597
<b>KOP Begin 2°/100' build</b>									
2,100.00	2.00	109.50	2,099.98	-0.58	1.65	14,638,879.58	1,815,941.51	40.30625362	-104.37042007
2,200.00	4.00	109.50	2,199.84	-2.33	6.58	14,638,877.86	1,815,946.46	40.30624883	-104.37040237
2,300.00	6.00	109.50	2,299.45	-5.24	14.79	14,638,875.01	1,815,954.69	40.30624084	-104.37037291
2,400.00	8.00	109.50	2,398.70	-9.30	26.28	14,638,871.03	1,815,966.21	40.30622967	-104.37033171
2,500.00	10.00	109.50	2,497.47	-14.53	41.03	14,638,865.91	1,815,980.99	40.30621534	-104.37027882
2,600.00	12.00	109.50	2,595.62	-20.89	59.01	14,638,859.67	1,815,999.02	40.30619785	-104.37021431
2,700.00	14.00	109.50	2,693.06	-28.40	80.22	14,638,852.32	1,816,020.28	40.30617724	-104.37013825
2,800.00	16.00	109.50	2,789.64	-37.04	104.61	14,638,843.85	1,816,044.73	40.30615352	-104.37005075
2,900.00	18.00	109.50	2,885.27	-46.80	132.17	14,638,834.29	1,816,072.36	40.30612672	-104.36995190
3,000.00	20.00	109.50	2,979.82	-57.66	162.86	14,638,823.65	1,816,103.13	40.30609689	-104.36984183
3,100.00	22.00	109.50	3,073.17	-69.62	196.64	14,638,811.93	1,816,136.99	40.30606405	-104.36972067
3,200.00	24.00	109.50	3,165.21	-82.66	233.47	14,638,799.15	1,816,173.91	40.30602824	-104.36958857
3,298.66	25.97	109.50	3,254.64	-96.57	272.76	14,638,785.52	1,816,213.30	40.30599005	-104.36944767
<b>Begin 25.97° tangent</b>									
3,300.00	25.97	109.50	3,255.84	-96.76	273.31	14,638,785.33	1,816,213.85	40.30598951	-104.36944569
3,400.00	25.97	109.50	3,345.74	-111.38	314.59	14,638,771.01	1,816,255.24	40.30594937	-104.36929762
3,500.00	25.97	109.50	3,435.64	-126.00	355.88	14,638,756.68	1,816,296.62	40.30590923	-104.36914954
3,600.00	25.97	109.50	3,525.54	-140.61	397.16	14,638,742.36	1,816,338.01	40.30586910	-104.36900147
3,700.00	25.97	109.50	3,615.44	-155.23	438.45	14,638,728.04	1,816,379.40	40.30582896	-104.36885340
3,800.00	25.97	109.50	3,705.34	-169.85	479.73	14,638,713.71	1,816,420.78	40.30578882	-104.36870532
3,900.00	25.97	109.50	3,795.24	-184.46	521.01	14,638,699.39	1,816,462.17	40.30574868	-104.36855725
4,000.00	25.97	109.50	3,885.14	-199.08	562.30	14,638,685.07	1,816,503.56	40.30570854	-104.36840918
4,100.00	25.97	109.50	3,975.04	-213.70	603.58	14,638,670.75	1,816,544.95	40.30566840	-104.36826111
4,200.00	25.97	109.50	4,064.94	-228.31	644.87	14,638,656.42	1,816,586.33	40.30562827	-104.36811304
4,300.00	25.97	109.50	4,154.84	-242.93	686.15	14,638,642.10	1,816,627.72	40.30558813	-104.36796496
4,400.00	25.97	109.50	4,244.74	-257.55	727.43	14,638,627.78	1,816,669.11	40.30554799	-104.36781689
4,500.00	25.97	109.50	4,334.64	-272.16	768.72	14,638,613.46	1,816,710.49	40.30550785	-104.36766882
4,600.00	25.97	109.50	4,424.54	-286.78	810.00	14,638,599.13	1,816,751.88	40.30546771	-104.36752075
4,700.00	25.97	109.50	4,514.44	-301.40	851.29	14,638,584.81	1,816,793.27	40.30542757	-104.36737268
4,800.00	25.97	109.50	4,604.34	-316.01	892.57	14,638,570.49	1,816,834.65	40.30538743	-104.36722461
4,900.00	25.97	109.50	4,694.24	-330.63	933.85	14,638,556.17	1,816,876.04	40.30534729	-104.36707654
5,000.00	25.97	109.50	4,784.14	-345.25	975.14	14,638,541.84	1,816,917.43	40.30530715	-104.36692847



<b>Database:</b>	DB_Jul2216dt_v14	<b>Local Co-ordinate Reference:</b>	Well Middlepark 18-03-4L
<b>Company:</b>	Confluence Resources	<b>TVD Reference:</b>	RKB=4557+21 @ 4581.00ft
<b>Project:</b>	Weld County, Colorado	<b>MD Reference:</b>	RKB=4557+21 @ 4581.00ft
<b>Site:</b>	Section 18-T04N-R62W	<b>North Reference:</b>	True
<b>Well:</b>	Middlepark 18-03-4L	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	plan2		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
5,100.00	25.97	109.50	4,874.04	-359.86	1,016.42	14,638,527.52	1,816,958.81	40.30526701	-104.36678040	
5,200.00	25.97	109.50	4,963.94	-374.48	1,057.71	14,638,513.20	1,817,000.20	40.30522686	-104.36663233	
5,300.00	25.97	109.50	5,053.84	-389.10	1,098.99	14,638,498.87	1,817,041.59	40.30518672	-104.36648426	
5,400.00	25.97	109.50	5,143.74	-403.71	1,140.28	14,638,484.55	1,817,082.97	40.30514658	-104.36633619	
5,500.00	25.97	109.50	5,233.64	-418.33	1,181.56	14,638,470.23	1,817,124.36	40.30510644	-104.36618812	
5,600.00	25.97	109.50	5,323.54	-432.95	1,222.84	14,638,455.91	1,817,165.75	40.30506630	-104.36604005	
5,700.00	25.97	109.50	5,413.44	-447.56	1,264.13	14,638,441.58	1,817,207.14	40.30502616	-104.36589198	
5,800.00	25.97	109.50	5,503.34	-462.18	1,305.41	14,638,427.26	1,817,248.52	40.30498602	-104.36574391	
5,900.00	25.97	109.50	5,593.24	-476.79	1,346.70	14,638,412.94	1,817,289.91	40.30494587	-104.36559584	
6,000.00	25.97	109.50	5,683.14	-491.41	1,387.98	14,638,398.62	1,817,331.30	40.30490573	-104.36544777	
6,100.00	25.97	109.50	5,773.04	-506.03	1,429.26	14,638,384.29	1,817,372.68	40.30486559	-104.36529970	
6,184.41	25.97	109.50	5,848.92	-518.37	1,464.11	14,638,372.20	1,817,407.62	40.30483170	-104.36517472	
Begin 10°/100' build										
6,200.00	25.48	106.09	5,862.97	-520.43	1,470.55	14,638,370.18	1,817,414.07	40.30482602	-104.36515162	
6,300.00	24.43	82.37	5,953.86	-523.66	1,511.82	14,638,367.25	1,817,455.36	40.30481716	-104.36500360	
6,400.00	27.05	60.01	6,044.14	-509.51	1,552.11	14,638,381.68	1,817,495.55	40.30485600	-104.36485911	
6,500.00	32.47	42.96	6,131.08	-478.42	1,590.19	14,638,413.04	1,817,533.41	40.30494136	-104.36472252	
6,600.00	39.54	30.88	6,212.03	-431.34	1,624.90	14,638,460.37	1,817,567.79	40.30507064	-104.36459800	
6,700.00	47.53	22.11	6,284.53	-369.69	1,655.20	14,638,522.23	1,817,597.65	40.30523992	-104.36448931	
6,800.00	56.04	15.40	6,346.37	-295.35	1,680.16	14,638,596.75	1,817,622.08	40.30544406	-104.36439977	
6,900.00	64.84	9.93	6,395.69	-210.57	1,699.03	14,638,681.66	1,817,640.34	40.30567684	-104.36433209	
7,000.00	73.81	5.21	6,430.97	-117.94	1,711.22	14,638,774.37	1,817,651.87	40.30593121	-104.36428834	
7,100.00	82.88	0.90	6,451.15	-20.26	1,716.37	14,638,872.09	1,817,656.33	40.30619942	-104.36426984	
7,178.14	90.00	357.67	6,456.00	57.66	1,715.39	14,638,950.00	1,817,654.79	40.30641339	-104.36427334	
LP Begin 90° lateral										
7,200.00	90.00	357.67	6,456.00	79.50	1,714.50	14,638,971.83	1,817,653.74	40.30647337	-104.36427653	
7,300.00	90.00	357.67	6,456.00	179.42	1,710.42	14,639,071.72	1,817,648.96	40.30674774	-104.36429112	
7,400.00	90.00	357.67	6,456.00	279.34	1,706.35	14,639,171.60	1,817,644.18	40.30702210	-104.36430571	
7,500.00	90.00	357.67	6,456.00	379.25	1,702.27	14,639,271.49	1,817,639.39	40.30729647	-104.36432030	
7,600.00	90.00	357.67	6,456.00	479.17	1,698.20	14,639,371.38	1,817,634.61	40.30757084	-104.36433488	
7,700.00	90.00	357.67	6,456.00	579.09	1,694.13	14,639,471.26	1,817,629.82	40.30784521	-104.36434947	
7,800.00	90.00	357.67	6,456.00	679.00	1,690.05	14,639,571.15	1,817,625.04	40.30811957	-104.36436406	
7,900.00	90.00	357.67	6,456.00	778.92	1,685.98	14,639,671.03	1,817,620.26	40.30839394	-104.36437865	
8,000.00	90.00	357.67	6,456.00	878.84	1,681.91	14,639,770.92	1,817,615.47	40.30866831	-104.36439323	
8,100.00	90.00	357.67	6,456.00	978.75	1,677.83	14,639,870.80	1,817,610.69	40.30894267	-104.36440782	
8,200.00	90.00	357.67	6,456.00	1,078.67	1,673.76	14,639,970.69	1,817,605.90	40.30921704	-104.36442241	
8,300.00	90.00	357.67	6,456.00	1,178.59	1,669.68	14,640,070.57	1,817,601.12	40.30949141	-104.36443700	
8,400.00	90.00	357.67	6,456.00	1,278.51	1,665.61	14,640,170.46	1,817,596.34	40.30976577	-104.36445159	
8,500.00	90.00	357.67	6,456.00	1,378.42	1,661.54	14,640,270.34	1,817,591.55	40.31004014	-104.36446618	
8,600.00	90.00	357.67	6,456.00	1,478.34	1,657.46	14,640,370.23	1,817,586.77	40.31031451	-104.36448076	
8,700.00	90.00	357.67	6,456.00	1,578.26	1,653.39	14,640,470.11	1,817,581.98	40.31058888	-104.36449535	
8,800.00	90.00	357.67	6,456.00	1,678.17	1,649.31	14,640,570.00	1,817,577.20	40.31086324	-104.36450994	
8,900.00	90.00	357.67	6,456.00	1,778.09	1,645.24	14,640,669.88	1,817,572.42	40.31113761	-104.36452453	
9,000.00	90.00	357.67	6,456.00	1,878.01	1,641.17	14,640,769.77	1,817,567.63	40.31141198	-104.36453912	
9,100.00	90.00	357.67	6,456.00	1,977.92	1,637.09	14,640,869.65	1,817,562.85	40.31168634	-104.36455371	
9,200.00	90.00	357.67	6,456.00	2,077.84	1,633.02	14,640,969.54	1,817,558.06	40.31196071	-104.36456830	
9,300.00	90.00	357.67	6,456.00	2,177.76	1,628.94	14,641,069.43	1,817,553.28	40.31223508	-104.36458289	
9,400.00	90.00	357.67	6,456.00	2,277.68	1,624.87	14,641,169.31	1,817,548.50	40.31250944	-104.36459748	
9,500.00	90.00	357.67	6,456.00	2,377.59	1,620.80	14,641,269.20	1,817,543.71	40.31278381	-104.36461207	
9,600.00	90.00	357.67	6,456.00	2,477.51	1,616.72	14,641,369.08	1,817,538.93	40.31305817	-104.36462665	
9,700.00	90.00	357.67	6,456.00	2,577.43	1,612.65	14,641,468.97	1,817,534.14	40.31333253	-104.36464124	
9,800.00	90.00	357.67	6,456.00	2,677.34	1,608.58	14,641,568.85	1,817,529.36	40.31360690	-104.36465583	
9,900.00	90.00	357.67	6,456.00	2,777.26	1,604.50	14,641,668.74	1,817,524.58	40.31388127	-104.36467042	
10,000.00	90.00	357.67	6,456.00	2,877.18	1,600.43	14,641,768.62	1,817,519.79	40.31415563	-104.36468501	



<b>Database:</b>	DB_Jul2216dt_v14	<b>Local Co-ordinate Reference:</b>	Well Middlepark 18-03-4L
<b>Company:</b>	Confluence Resources	<b>TVD Reference:</b>	RKB=4557+21 @ 4581.00ft
<b>Project:</b>	Weld County, Colorado	<b>MD Reference:</b>	RKB=4557+21 @ 4581.00ft
<b>Site:</b>	Section 18-T04N-R62W	<b>North Reference:</b>	True
<b>Well:</b>	Middlepark 18-03-4L	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	plan2		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,100.00	90.00	357.67	6,456.00	2,977.09	1,596.35	14,641,868.51	1,817,515.01	40.31443000	-104.36469960
10,200.00	90.00	357.67	6,456.00	3,077.01	1,592.28	14,641,968.39	1,817,510.22	40.31470437	-104.36471419
10,300.00	90.00	357.67	6,456.00	3,176.93	1,588.21	14,642,068.28	1,817,505.44	40.31497873	-104.36472878
10,400.00	90.00	357.67	6,456.00	3,276.85	1,584.13	14,642,168.16	1,817,500.66	40.31525310	-104.36474338
10,500.00	90.00	357.67	6,456.00	3,376.76	1,580.06	14,642,268.05	1,817,495.87	40.31552747	-104.36475797
10,600.00	90.00	357.67	6,456.00	3,476.68	1,575.98	14,642,367.93	1,817,491.09	40.31580183	-104.36477256
10,700.00	90.00	357.67	6,456.00	3,576.60	1,571.91	14,642,467.82	1,817,486.30	40.31607620	-104.36478715
10,800.00	90.00	357.67	6,456.00	3,676.51	1,567.84	14,642,567.71	1,817,481.52	40.31635057	-104.36480174
10,900.00	90.00	357.67	6,456.00	3,776.43	1,563.76	14,642,667.59	1,817,476.74	40.31662493	-104.36481633
11,000.00	90.00	357.67	6,456.00	3,876.35	1,559.69	14,642,767.48	1,817,471.95	40.31689930	-104.36483092
11,100.00	90.00	357.67	6,456.00	3,976.26	1,555.61	14,642,867.36	1,817,467.17	40.31717367	-104.36484551
11,200.00	90.00	357.67	6,456.00	4,076.18	1,551.54	14,642,967.25	1,817,462.38	40.31744803	-104.36486010
11,300.00	90.00	357.67	6,456.00	4,176.10	1,547.47	14,643,067.13	1,817,457.60	40.31772240	-104.36487469
11,400.00	90.00	357.67	6,456.00	4,276.02	1,543.39	14,643,167.02	1,817,452.82	40.31799677	-104.36488929
11,500.00	90.00	357.67	6,456.00	4,375.93	1,539.32	14,643,266.90	1,817,448.03	40.31827113	-104.36490388
11,600.00	90.00	357.67	6,456.00	4,475.85	1,535.25	14,643,366.79	1,817,443.25	40.31854550	-104.36491847
11,700.00	90.00	357.67	6,456.00	4,575.77	1,531.17	14,643,466.67	1,817,438.46	40.31881987	-104.36493306
11,800.00	90.00	357.67	6,456.00	4,675.68	1,527.10	14,643,566.56	1,817,433.68	40.31909423	-104.36494765
11,900.00	90.00	357.67	6,456.00	4,775.60	1,523.02	14,643,666.44	1,817,428.90	40.31936860	-104.36496224
12,000.00	90.00	357.67	6,456.00	4,875.52	1,518.95	14,643,766.33	1,817,424.11	40.31964297	-104.36497684
12,100.00	90.00	357.67	6,456.00	4,975.43	1,514.88	14,643,866.21	1,817,419.33	40.31991733	-104.36499143
12,200.00	90.00	357.67	6,456.00	5,075.35	1,510.80	14,643,966.10	1,817,414.54	40.32019170	-104.36500602
12,300.00	90.00	357.67	6,456.00	5,175.27	1,506.73	14,644,065.98	1,817,409.76	40.32046607	-104.36502061
12,400.00	90.00	357.67	6,456.00	5,275.18	1,502.65	14,644,165.87	1,817,404.98	40.32074043	-104.36503521
12,500.00	90.00	357.67	6,456.00	5,375.10	1,498.58	14,644,265.76	1,817,400.19	40.32101480	-104.36504980
12,600.00	90.00	357.67	6,456.00	5,475.02	1,494.51	14,644,365.64	1,817,395.41	40.32128917	-104.36506439
12,700.00	90.00	357.67	6,456.00	5,574.94	1,490.43	14,644,465.53	1,817,390.62	40.32156353	-104.36507898
12,800.00	90.00	357.67	6,456.00	5,674.85	1,486.36	14,644,565.41	1,817,385.84	40.32183790	-104.36509358
12,900.00	90.00	357.67	6,456.00	5,774.77	1,482.28	14,644,665.30	1,817,381.06	40.32211226	-104.36510817
13,000.00	90.00	357.67	6,456.00	5,874.69	1,478.21	14,644,765.18	1,817,376.27	40.32238663	-104.36512276
13,100.00	90.00	357.67	6,456.00	5,974.60	1,474.14	14,644,865.07	1,817,371.49	40.32266100	-104.36513736
13,200.00	90.00	357.67	6,456.00	6,074.52	1,470.06	14,644,964.95	1,817,366.70	40.32293536	-104.36515195
13,300.00	90.00	357.67	6,456.00	6,174.44	1,465.99	14,645,064.84	1,817,361.92	40.32320973	-104.36516654
13,400.00	90.00	357.67	6,456.00	6,274.35	1,461.92	14,645,164.72	1,817,357.14	40.32348410	-104.36518114
13,500.00	90.00	357.67	6,456.00	6,374.27	1,457.84	14,645,264.61	1,817,352.35	40.32375846	-104.36519573
13,600.00	90.00	357.67	6,456.00	6,474.19	1,453.77	14,645,364.49	1,817,347.57	40.32403283	-104.36521032
13,700.00	90.00	357.67	6,456.00	6,574.11	1,449.69	14,645,464.38	1,817,342.78	40.32430720	-104.36522492
13,800.00	90.00	357.67	6,456.00	6,674.02	1,445.62	14,645,564.26	1,817,338.00	40.32458156	-104.36523951
13,900.00	90.00	357.67	6,456.00	6,773.94	1,441.55	14,645,664.15	1,817,333.22	40.32485593	-104.36525411
14,000.00	90.00	357.67	6,456.00	6,873.86	1,437.47	14,645,764.03	1,817,328.43	40.32513029	-104.36526870
14,100.00	90.00	357.67	6,456.00	6,973.77	1,433.40	14,645,863.92	1,817,323.65	40.32540466	-104.36528329
14,200.00	90.00	357.67	6,456.00	7,073.69	1,429.32	14,645,963.81	1,817,318.86	40.32567903	-104.36529789
14,300.00	90.00	357.67	6,456.00	7,173.61	1,425.25	14,646,063.69	1,817,314.08	40.32595339	-104.36531248
14,400.00	90.00	357.67	6,456.00	7,273.52	1,421.18	14,646,163.58	1,817,309.30	40.32622776	-104.36532708
14,500.00	90.00	357.67	6,456.00	7,373.44	1,417.10	14,646,263.46	1,817,304.51	40.32650212	-104.36534167
14,600.00	90.00	357.67	6,456.00	7,473.36	1,413.03	14,646,363.35	1,817,299.73	40.32677649	-104.36535627
14,700.00	90.00	357.67	6,456.00	7,573.28	1,408.96	14,646,463.23	1,817,294.94	40.32705086	-104.36537086
14,800.00	90.00	357.67	6,456.00	7,673.19	1,404.88	14,646,563.12	1,817,290.16	40.32732522	-104.36538546
14,900.00	90.00	357.67	6,456.00	7,773.11	1,400.81	14,646,663.00	1,817,285.38	40.32759959	-104.36540005
15,000.00	90.00	357.67	6,456.00	7,873.03	1,396.73	14,646,762.89	1,817,280.59	40.32787396	-104.36541465
15,100.00	90.00	357.67	6,456.00	7,972.94	1,392.66	14,646,862.77	1,817,275.81	40.32814832	-104.36542924
15,200.00	90.00	357.67	6,456.00	8,072.86	1,388.59	14,646,962.66	1,817,271.02	40.32842269	-104.36544384
15,300.00	90.00	357.67	6,456.00	8,172.78	1,384.51	14,647,062.54	1,817,266.24	40.32869705	-104.36545843
15,400.00	90.00	357.67	6,456.00	8,272.69	1,380.44	14,647,162.43	1,817,261.45	40.32897142	-104.36547303
15,500.00	90.00	357.67	6,456.00	8,372.61	1,376.36	14,647,262.31	1,817,256.67	40.32924579	-104.36548762

<b>Database:</b>	DB_Jul2216dt_v14	<b>Local Co-ordinate Reference:</b>	Well Middlepark 18-03-4L
<b>Company:</b>	Confluence Resources	<b>TVD Reference:</b>	RKB=4557+21 @ 4581.00ft
<b>Project:</b>	Weld County, Colorado	<b>MD Reference:</b>	RKB=4557+21 @ 4581.00ft
<b>Site:</b>	Section 18-T04N-R62W	<b>North Reference:</b>	True
<b>Well:</b>	Middlepark 18-03-4L	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	plan2		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
15,600.00	90.00	357.67	6,456.00	8,472.53	1,372.29	14,647,362.20	1,817,251.89	40.32952015	-104.36550222
15,700.00	90.00	357.67	6,456.00	8,572.45	1,368.22	14,647,462.08	1,817,247.10	40.32979452	-104.36551682
15,800.00	90.00	357.67	6,456.00	8,672.36	1,364.14	14,647,561.97	1,817,242.32	40.33006888	-104.36553141
15,900.00	90.00	357.67	6,456.00	8,772.28	1,360.07	14,647,661.86	1,817,237.53	40.33034325	-104.36554601
16,000.00	90.00	357.67	6,456.00	8,872.20	1,355.99	14,647,761.74	1,817,232.75	40.33061762	-104.36556060
16,100.00	90.00	357.67	6,456.00	8,972.11	1,351.92	14,647,861.63	1,817,227.97	40.33089198	-104.36557520
16,200.00	90.00	357.67	6,456.00	9,072.03	1,347.85	14,647,961.51	1,817,223.18	40.33116635	-104.36558980
16,300.00	90.00	357.67	6,456.00	9,171.95	1,343.77	14,648,061.40	1,817,218.40	40.33144071	-104.36560439
16,400.00	90.00	357.67	6,456.00	9,271.86	1,339.70	14,648,161.28	1,817,213.61	40.33171508	-104.36561899
16,500.00	90.00	357.67	6,456.00	9,371.78	1,335.63	14,648,261.17	1,817,208.83	40.33198945	-104.36563359
16,600.00	90.00	357.67	6,456.00	9,471.70	1,331.55	14,648,361.05	1,817,204.05	40.33226381	-104.36564818
16,700.00	90.00	357.67	6,456.00	9,571.62	1,327.48	14,648,460.94	1,817,199.26	40.33253818	-104.36566278
16,800.00	90.00	357.67	6,456.00	9,671.53	1,323.40	14,648,560.82	1,817,194.48	40.33281254	-104.36567738
16,869.98	90.00	357.67	6,456.00	9,741.45	1,320.55	14,648,630.72	1,817,191.13	40.33300454	-104.36568759
PBHL/TD 16869.98 MD/6456.00 TVD									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Middlepark 18-03-4L LP	0.00	0.00	6,456.00	57.66	1,715.39	14,638,950.00	1,817,654.79	40.30641339	-104.36427334
- plan hits target center									
- Point									
Middlepark 18-03-4L BH	0.00	0.00	6,456.00	9,741.46	1,320.55	14,648,630.73	1,817,191.13	40.33300456	-104.36568759
- plan hits target center									
- Point									

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
2,000.00	2,000.00	0.00	0.00	KOP Begin 2°/100' build
3,298.66	3,254.64	-96.57	272.76	Begin 25.97° tangent
6,184.41	5,848.92	-518.37	1,464.11	Begin 10°/100' build
7,178.14	6,456.00	57.66	1,715.39	LP Begin 90° lateral
16,869.98	6,456.00	9,741.45	1,320.55	PBHL/TD 16869.98 MD/6456.00 TVD