



Well: Middlepark 18-15-3L  
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 1°/100' build
3	2406.54	8.13	156.95	2405.17	-26.50	11.27	2.00	-26.30	Begin 8.13° tangent
4	5742.15	8.13	156.95	5707.26	-460.60	195.98	0.00	-457.20	Begin 10°/100' build
5	6717.13	90.00	359.63	6354.00	107.67	227.97	10.00	111.54	LP Begin 90° lateral
6	16376.18	90.00	359.63	6354.00	9766.53	166.11	0.00	9767.94	PBHL/TD 16376.18 MD/6354.00 TVD

#### DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Middlepark 18-15-3L BHL 470 FNL 1772 FWL p2	6354.00	9766.53	166.11	14648614.83	1815872.13	40.33298676	-104.37042064
Middlepark 18-15-3L LP 470 FSL 1772 FWL p2	6354.00	107.67	227.97	14638956.68	1816002.58	40.30646414	-104.37019906



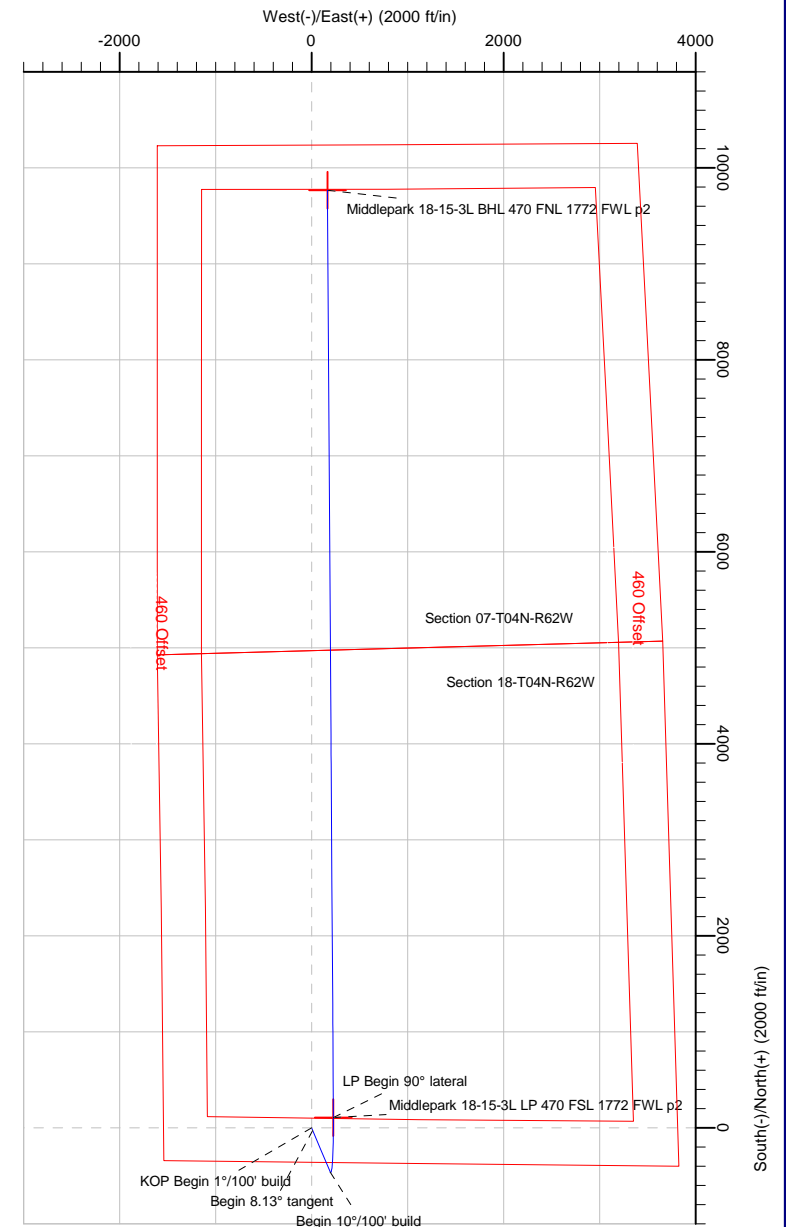
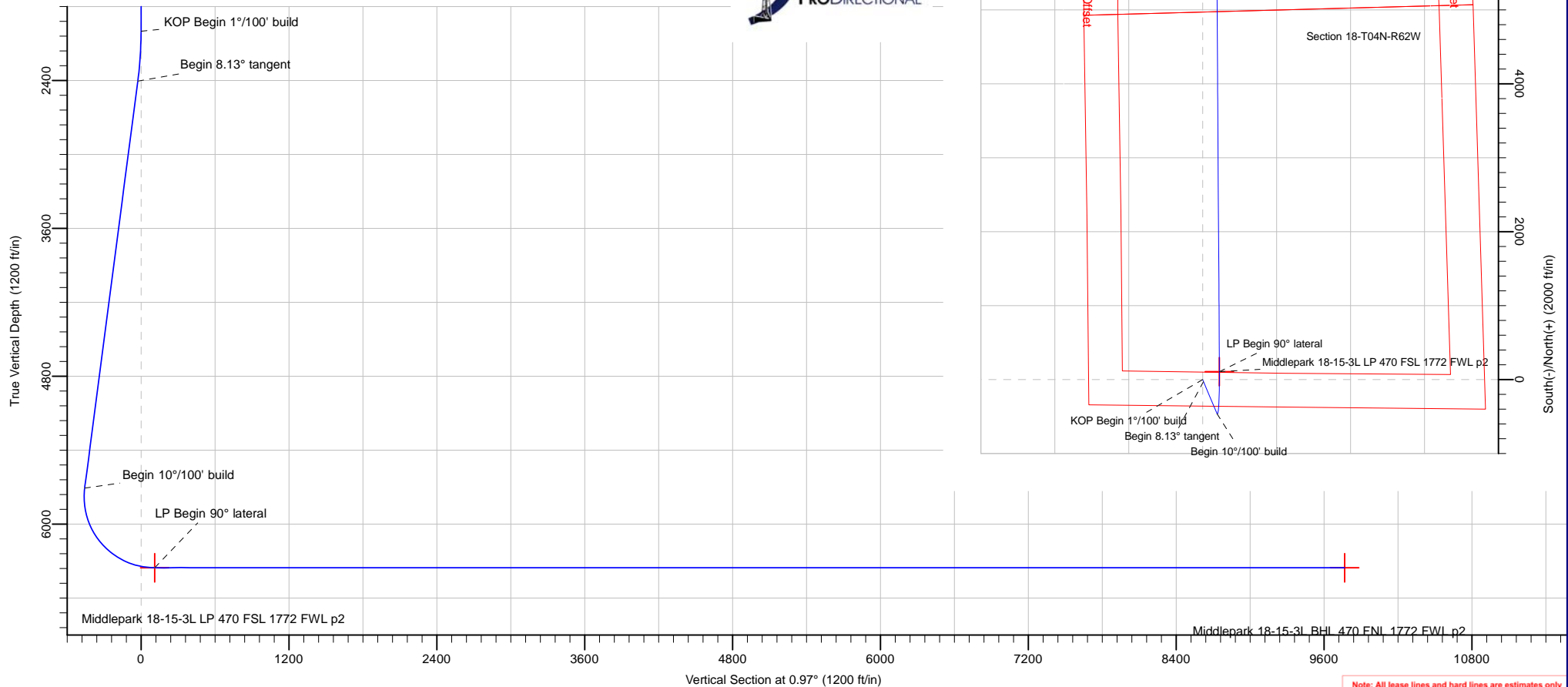
Azimuths to True North  
Magnetic North: 8.18°

Magnetic Field  
Strength: 52247.3snT  
Dip Angle: 66.90°  
Date: 4/22/2018  
Model: HDGM

Middlepark 18-15-3L  
Surf loc: 359 FSL 1543 FWL Section 18-T04N-R62W

NAD83 Colorado - HARN  
Universal Transverse Mercator (US Survey Feet)  
Zone 13N (108 W to 102 W)  
RKB=4559+24 @ 4583.00ft

Northing	Easting	Latitude	Longitude
14638847.39	1815775.38	40.30616847	-104.37101673



<b>Database:</b>	DB_Jul2216dt_v14	<b>Local Co-ordinate Reference:</b>	Well Middlepark 18-15-3L
<b>Company:</b>	Confluence Resources	<b>TVD Reference:</b>	RKB=4559+24 @ 4583.00ft
<b>Project:</b>	Weld County, Colorado	<b>MD Reference:</b>	RKB=4559+24 @ 4583.00ft
<b>Site:</b>	Section 18-T04N-R62W	<b>North Reference:</b>	True
<b>Well:</b>	Middlepark 18-15-3L	<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 18-15-3L, Surf loc: 359 FSL 1543 FWL Section 18-T04N-R62W					
Well Position	+N/-S	-2,313.04 ft	Northing:	14,638,847.39 usft	Latitude:	40.30616848
	+E/-W	985.10 ft	Easting:	1,815,775.38 usft	Longitude:	-104.37101673
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,559.00 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	52,247.30000000

<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	0.97

<b>Plan Survey Tool Program</b>	<b>Date</b>	4/27/2018		
<b>Depth From (ft)</b>	<b>Depth To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.00	16,376.05	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	
2,406.54	8.13	156.95	2,405.17	-26.50	11.27	2.00	2.00	0.00	156.95	
5,742.15	8.13	156.95	5,707.26	-460.60	195.98	0.00	0.00	0.00	0.00	
6,717.13	90.00	359.63	6,354.00	107.67	227.97	10.00	8.40	-16.14	-157.11	Middlepark 18-15-3L I
16,376.18	90.00	359.63	6,354.00	9,766.53	166.11	0.00	0.00	0.00	0.00	Middlepark 18-15-3L I

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<b>Company:</b>	Confluence Resources	<b>TVD Reference:</b>	RKB=4559+24 @ 4583.00ft
<b>Project:</b>	Weld County, Colorado	<b>MD Reference:</b>	RKB=4559+24 @ 4583.00ft
<b>Site:</b>	Section 18-T04N-R62W	<b>North Reference:</b>	True
<b>Well:</b>	Middlepark 18-15-3L	<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 1°/100' build</b>									
2,100.00	2.00	156.95	2,099.98	-1.61	0.68	-1.59	2.00	2.00	0.00
2,200.00	4.00	156.95	2,199.84	-6.42	2.73	-6.37	2.00	2.00	0.00
2,300.00	6.00	156.95	2,299.45	-14.44	6.14	-14.33	2.00	2.00	0.00
2,400.00	8.00	156.95	2,398.70	-25.65	10.92	-25.46	2.00	2.00	0.00
2,406.54	8.13	156.95	2,405.18	-26.50	11.27	-26.30	2.00	2.00	0.00
<b>Begin 8.13° tangent</b>									
2,500.00	8.13	156.95	2,497.70	-38.66	16.45	-38.38	0.00	0.00	0.00
2,600.00	8.13	156.95	2,596.69	-51.68	21.99	-51.29	0.00	0.00	0.00
2,700.00	8.13	156.95	2,695.69	-64.69	27.52	-64.21	0.00	0.00	0.00
2,800.00	8.13	156.95	2,794.68	-77.70	33.06	-77.13	0.00	0.00	0.00
2,900.00	8.13	156.95	2,893.68	-90.72	38.60	-90.05	0.00	0.00	0.00
3,000.00	8.13	156.95	2,992.67	-103.73	44.14	-102.97	0.00	0.00	0.00
3,100.00	8.13	156.95	3,091.67	-116.75	49.67	-115.89	0.00	0.00	0.00
3,200.00	8.13	156.95	3,190.66	-129.76	55.21	-128.80	0.00	0.00	0.00
3,300.00	8.13	156.95	3,289.66	-142.78	60.75	-141.72	0.00	0.00	0.00
3,400.00	8.13	156.95	3,388.65	-155.79	66.29	-154.64	0.00	0.00	0.00
3,500.00	8.13	156.95	3,487.65	-168.80	71.82	-167.56	0.00	0.00	0.00
3,600.00	8.13	156.95	3,586.64	-181.82	77.36	-180.48	0.00	0.00	0.00
3,700.00	8.13	156.95	3,685.63	-194.83	82.90	-193.39	0.00	0.00	0.00
3,800.00	8.13	156.95	3,784.63	-207.85	88.44	-206.31	0.00	0.00	0.00
3,900.00	8.13	156.95	3,883.62	-220.86	93.97	-219.23	0.00	0.00	0.00
4,000.00	8.13	156.95	3,982.62	-233.87	99.51	-232.15	0.00	0.00	0.00
4,100.00	8.13	156.95	4,081.61	-246.89	105.05	-245.07	0.00	0.00	0.00
4,200.00	8.13	156.95	4,180.61	-259.90	110.58	-257.98	0.00	0.00	0.00
4,300.00	8.13	156.95	4,279.60	-272.92	116.12	-270.90	0.00	0.00	0.00
4,400.00	8.13	156.95	4,378.60	-285.93	121.66	-283.82	0.00	0.00	0.00
4,500.00	8.13	156.95	4,477.59	-298.95	127.20	-296.74	0.00	0.00	0.00
4,600.00	8.13	156.95	4,576.59	-311.96	132.73	-309.66	0.00	0.00	0.00
4,700.00	8.13	156.95	4,675.58	-324.97	138.27	-322.58	0.00	0.00	0.00
4,800.00	8.13	156.95	4,774.58	-337.99	143.81	-335.49	0.00	0.00	0.00
4,900.00	8.13	156.95	4,873.57	-351.00	149.35	-348.41	0.00	0.00	0.00

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<b>Company:</b>	Confluence Resources	<b>TVD Reference:</b>	RKB=4559+24 @ 4583.00ft
<b>Project:</b>	Weld County, Colorado	<b>MD Reference:</b>	RKB=4559+24 @ 4583.00ft
<b>Site:</b>	Section 18-T04N-R62W	<b>North Reference:</b>	True
<b>Well:</b>	Middlepark 18-15-3L	<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	8.13	156.95	4,972.57	-364.02	154.88	-361.33	0.00	0.00	0.00
5,100.00	8.13	156.95	5,071.56	-377.03	160.42	-374.25	0.00	0.00	0.00
5,200.00	8.13	156.95	5,170.56	-390.04	165.96	-387.17	0.00	0.00	0.00
5,300.00	8.13	156.95	5,269.55	-403.06	171.50	-400.08	0.00	0.00	0.00
5,400.00	8.13	156.95	5,368.55	-416.07	177.03	-413.00	0.00	0.00	0.00
5,500.00	8.13	156.95	5,467.54	-429.09	182.57	-425.92	0.00	0.00	0.00
5,600.00	8.13	156.95	5,566.54	-442.10	188.11	-438.84	0.00	0.00	0.00
5,700.00	8.13	156.95	5,665.53	-455.12	193.64	-451.76	0.00	0.00	0.00
5,742.15	8.13	156.95	5,707.26	-460.60	195.98	-457.20	0.00	0.00	0.00
Begin 10°/100' build									
5,800.00	3.59	118.16	5,764.81	-465.22	199.18	-461.77	10.00	-7.85	-67.05
5,900.00	8.86	20.32	5,864.37	-459.46	204.63	-455.92	10.00	5.27	-97.84
6,000.00	18.55	9.08	5,961.42	-436.47	209.83	-432.84	10.00	9.68	-11.24
6,100.00	28.45	5.47	6,053.02	-396.96	214.62	-393.25	10.00	9.90	-3.61
6,200.00	38.40	3.62	6,136.38	-342.12	218.86	-338.35	10.00	9.95	-1.85
6,300.00	48.36	2.44	6,208.97	-273.62	222.42	-269.79	10.00	9.97	-1.18
6,400.00	58.34	1.58	6,268.58	-193.53	225.19	-189.68	10.00	9.98	-0.86
6,500.00	68.32	0.89	6,313.41	-104.31	227.09	-100.43	10.00	9.98	-0.69
6,600.00	78.31	0.29	6,342.09	-8.64	228.06	-4.76	10.00	9.98	-0.60
6,700.00	88.29	359.73	6,353.74	90.55	228.07	94.41	10.00	9.98	-0.56
6,717.13	90.00	359.63	6,354.00	107.67	227.97	111.54	10.00	9.98	-0.55
LP Begin 90° lateral									
6,800.00	90.00	359.63	6,354.00	190.54	227.44	194.38	0.00	0.00	0.00
6,900.00	90.00	359.63	6,354.00	290.54	226.80	294.36	0.00	0.00	0.00
7,000.00	90.00	359.63	6,354.00	390.54	226.16	394.33	0.00	0.00	0.00
7,100.00	90.00	359.63	6,354.00	490.54	225.52	494.30	0.00	0.00	0.00
7,200.00	90.00	359.63	6,354.00	590.53	224.88	594.27	0.00	0.00	0.00
7,300.00	90.00	359.63	6,354.00	690.53	224.24	694.25	0.00	0.00	0.00
7,400.00	90.00	359.63	6,354.00	790.53	223.60	794.22	0.00	0.00	0.00
7,500.00	90.00	359.63	6,354.00	890.53	222.96	894.19	0.00	0.00	0.00
7,600.00	90.00	359.63	6,354.00	990.53	222.32	994.16	0.00	0.00	0.00
7,700.00	90.00	359.63	6,354.00	1,090.52	221.68	1,094.14	0.00	0.00	0.00
7,800.00	90.00	359.63	6,354.00	1,190.52	221.04	1,194.11	0.00	0.00	0.00
7,900.00	90.00	359.63	6,354.00	1,290.52	220.40	1,294.08	0.00	0.00	0.00
8,000.00	90.00	359.63	6,354.00	1,390.52	219.76	1,394.05	0.00	0.00	0.00
8,100.00	90.00	359.63	6,354.00	1,490.52	219.11	1,494.03	0.00	0.00	0.00
8,200.00	90.00	359.63	6,354.00	1,590.51	218.47	1,594.00	0.00	0.00	0.00
8,300.00	90.00	359.63	6,354.00	1,690.51	217.83	1,693.97	0.00	0.00	0.00
8,400.00	90.00	359.63	6,354.00	1,790.51	217.19	1,793.94	0.00	0.00	0.00
8,500.00	90.00	359.63	6,354.00	1,890.51	216.55	1,893.92	0.00	0.00	0.00
8,600.00	90.00	359.63	6,354.00	1,990.51	215.91	1,993.89	0.00	0.00	0.00
8,700.00	90.00	359.63	6,354.00	2,090.50	215.27	2,093.86	0.00	0.00	0.00
8,800.00	90.00	359.63	6,354.00	2,190.50	214.63	2,193.83	0.00	0.00	0.00
8,900.00	90.00	359.63	6,354.00	2,290.50	213.99	2,293.81	0.00	0.00	0.00
9,000.00	90.00	359.63	6,354.00	2,390.50	213.35	2,393.78	0.00	0.00	0.00
9,100.00	90.00	359.63	6,354.00	2,490.50	212.71	2,493.75	0.00	0.00	0.00
9,200.00	90.00	359.63	6,354.00	2,590.49	212.07	2,593.73	0.00	0.00	0.00
9,300.00	90.00	359.63	6,354.00	2,690.49	211.43	2,693.70	0.00	0.00	0.00
9,400.00	90.00	359.63	6,354.00	2,790.49	210.79	2,793.67	0.00	0.00	0.00
9,500.00	90.00	359.63	6,354.00	2,890.49	210.15	2,893.64	0.00	0.00	0.00
9,600.00	90.00	359.63	6,354.00	2,990.49	209.51	2,993.62	0.00	0.00	0.00
9,700.00	90.00	359.63	6,354.00	3,090.48	208.87	3,093.59	0.00	0.00	0.00
9,800.00	90.00	359.63	6,354.00	3,190.48	208.23	3,193.56	0.00	0.00	0.00
9,900.00	90.00	359.63	6,354.00	3,290.48	207.59	3,293.53	0.00	0.00	0.00

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<b>Project:</b>	Weld County, Colorado	<b>MD Reference:</b>	RKB=4559+24 @ 4583.00ft
<b>Site:</b>	Section 18-T04N-R62W	<b>North Reference:</b>	True
<b>Well:</b>	Middlepark 18-15-3L	<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	359.63	6,354.00	3,390.48	206.95	3,393.51	0.00	0.00	0.00
10,100.00	90.00	359.63	6,354.00	3,490.47	206.31	3,493.48	0.00	0.00	0.00
10,200.00	90.00	359.63	6,354.00	3,590.47	205.67	3,593.45	0.00	0.00	0.00
10,300.00	90.00	359.63	6,354.00	3,690.47	205.03	3,693.42	0.00	0.00	0.00
10,400.00	90.00	359.63	6,354.00	3,790.47	204.39	3,793.40	0.00	0.00	0.00
10,500.00	90.00	359.63	6,354.00	3,890.47	203.75	3,893.37	0.00	0.00	0.00
10,600.00	90.00	359.63	6,354.00	3,990.46	203.10	3,993.34	0.00	0.00	0.00
10,700.00	90.00	359.63	6,354.00	4,090.46	202.46	4,093.31	0.00	0.00	0.00
10,800.00	90.00	359.63	6,354.00	4,190.46	201.82	4,193.29	0.00	0.00	0.00
10,900.00	90.00	359.63	6,354.00	4,290.46	201.18	4,293.26	0.00	0.00	0.00
11,000.00	90.00	359.63	6,354.00	4,390.46	200.54	4,393.23	0.00	0.00	0.00
11,100.00	90.00	359.63	6,354.00	4,490.45	199.90	4,493.20	0.00	0.00	0.00
11,200.00	90.00	359.63	6,354.00	4,590.45	199.26	4,593.18	0.00	0.00	0.00
11,300.00	90.00	359.63	6,354.00	4,690.45	198.62	4,693.15	0.00	0.00	0.00
11,400.00	90.00	359.63	6,354.00	4,790.45	197.98	4,793.12	0.00	0.00	0.00
11,500.00	90.00	359.63	6,354.00	4,890.45	197.34	4,893.09	0.00	0.00	0.00
11,600.00	90.00	359.63	6,354.00	4,990.44	196.70	4,993.07	0.00	0.00	0.00
11,700.00	90.00	359.63	6,354.00	5,090.44	196.06	5,093.04	0.00	0.00	0.00
11,800.00	90.00	359.63	6,354.00	5,190.44	195.42	5,193.01	0.00	0.00	0.00
11,900.00	90.00	359.63	6,354.00	5,290.44	194.78	5,292.99	0.00	0.00	0.00
12,000.00	90.00	359.63	6,354.00	5,390.44	194.14	5,392.96	0.00	0.00	0.00
12,100.00	90.00	359.63	6,354.00	5,490.43	193.50	5,492.93	0.00	0.00	0.00
12,200.00	90.00	359.63	6,354.00	5,590.43	192.86	5,592.90	0.00	0.00	0.00
12,300.00	90.00	359.63	6,354.00	5,690.43	192.22	5,692.88	0.00	0.00	0.00
12,400.00	90.00	359.63	6,354.00	5,790.43	191.58	5,792.85	0.00	0.00	0.00
12,500.00	90.00	359.63	6,354.00	5,890.43	190.94	5,892.82	0.00	0.00	0.00
12,600.00	90.00	359.63	6,354.00	5,990.42	190.30	5,992.79	0.00	0.00	0.00
12,700.00	90.00	359.63	6,354.00	6,090.42	189.66	6,092.77	0.00	0.00	0.00
12,800.00	90.00	359.63	6,354.00	6,190.42	189.02	6,192.74	0.00	0.00	0.00
12,900.00	90.00	359.63	6,354.00	6,290.42	188.38	6,292.71	0.00	0.00	0.00
13,000.00	90.00	359.63	6,354.00	6,390.42	187.74	6,392.68	0.00	0.00	0.00
13,100.00	90.00	359.63	6,354.00	6,490.41	187.09	6,492.66	0.00	0.00	0.00
13,200.00	90.00	359.63	6,354.00	6,590.41	186.45	6,592.63	0.00	0.00	0.00
13,300.00	90.00	359.63	6,354.00	6,690.41	185.81	6,692.60	0.00	0.00	0.00
13,400.00	90.00	359.63	6,354.00	6,790.41	185.17	6,792.57	0.00	0.00	0.00
13,500.00	90.00	359.63	6,354.00	6,890.41	184.53	6,892.55	0.00	0.00	0.00
13,600.00	90.00	359.63	6,354.00	6,990.40	183.89	6,992.52	0.00	0.00	0.00
13,700.00	90.00	359.63	6,354.00	7,090.40	183.25	7,092.49	0.00	0.00	0.00
13,800.00	90.00	359.63	6,354.00	7,190.40	182.61	7,192.46	0.00	0.00	0.00
13,900.00	90.00	359.63	6,354.00	7,290.40	181.97	7,292.44	0.00	0.00	0.00
14,000.00	90.00	359.63	6,354.00	7,390.39	181.33	7,392.41	0.00	0.00	0.00
14,100.00	90.00	359.63	6,354.00	7,490.39	180.69	7,492.38	0.00	0.00	0.00
14,200.00	90.00	359.63	6,354.00	7,590.39	180.05	7,592.36	0.00	0.00	0.00
14,300.00	90.00	359.63	6,354.00	7,690.39	179.41	7,692.33	0.00	0.00	0.00
14,400.00	90.00	359.63	6,354.00	7,790.39	178.77	7,792.30	0.00	0.00	0.00
14,500.00	90.00	359.63	6,354.00	7,890.38	178.13	7,892.27	0.00	0.00	0.00
14,600.00	90.00	359.63	6,354.00	7,990.38	177.49	7,992.25	0.00	0.00	0.00
14,700.00	90.00	359.63	6,354.00	8,090.38	176.85	8,092.22	0.00	0.00	0.00
14,800.00	90.00	359.63	6,354.00	8,190.38	176.21	8,192.19	0.00	0.00	0.00
14,900.00	90.00	359.63	6,354.00	8,290.38	175.57	8,292.16	0.00	0.00	0.00
15,000.00	90.00	359.63	6,354.00	8,390.37	174.93	8,392.14	0.00	0.00	0.00
15,100.00	90.00	359.63	6,354.00	8,490.37	174.29	8,492.11	0.00	0.00	0.00
15,200.00	90.00	359.63	6,354.00	8,590.37	173.65	8,592.08	0.00	0.00	0.00
15,300.00	90.00	359.63	6,354.00	8,690.37	173.01	8,692.05	0.00	0.00	0.00

<b>Database:</b>	DB_Jul2216dt_v14	<b>Local Co-ordinate Reference:</b>	Well Middlepark 18-15-3L
<b>Company:</b>	Confluence Resources	<b>TVD Reference:</b>	RKB=4559+24 @ 4583.00ft
<b>Project:</b>	Weld County, Colorado	<b>MD Reference:</b>	RKB=4559+24 @ 4583.00ft
<b>Site:</b>	Section 18-T04N-R62W	<b>North Reference:</b>	True
<b>Well:</b>	Middlepark 18-15-3L	<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	359.63	6,354.00	8,790.37	172.37	8,792.03	0.00	0.00	0.00
15,500.00	90.00	359.63	6,354.00	8,890.36	171.73	8,892.00	0.00	0.00	0.00
15,600.00	90.00	359.63	6,354.00	8,990.36	171.08	8,991.97	0.00	0.00	0.00
15,700.00	90.00	359.63	6,354.00	9,090.36	170.44	9,091.94	0.00	0.00	0.00
15,800.00	90.00	359.63	6,354.00	9,190.36	169.80	9,191.92	0.00	0.00	0.00
15,900.00	90.00	359.63	6,354.00	9,290.36	169.16	9,291.89	0.00	0.00	0.00
16,000.00	90.00	359.63	6,354.00	9,390.35	168.52	9,391.86	0.00	0.00	0.00
16,100.00	90.00	359.63	6,354.00	9,490.35	167.88	9,491.83	0.00	0.00	0.00
16,200.00	90.00	359.63	6,354.00	9,590.35	167.24	9,591.81	0.00	0.00	0.00
16,300.00	90.00	359.63	6,354.00	9,690.35	166.60	9,691.78	0.00	0.00	0.00
16,376.18	90.00	359.63	6,354.00	9,766.53	166.11	9,767.94	0.00	0.00	0.00
PBHL/TD 16376.18 MD/6354.00 TVD									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Middlepark 18-15-3L BH - plan hits target center - Point	0.00	0.00	6,354.00	9,766.53	166.11	14,648,614.83	1,815,872.13	40.33298675	-104.37042064
Middlepark 18-15-3L LP - plan hits target center - Point	0.00	0.00	6,354.00	107.67	227.97	14,638,956.68	1,816,002.58	40.30646414	-104.37019906

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 1°/100' build
2,406.54	2,405.18	-26.50	11.27	Begin 8.13° tangent
5,742.15	5,707.26	-460.60	195.98	Begin 10°/100' build
6,717.13	6,354.00	107.67	227.97	LP Begin 90° lateral
16,376.18	6,354.00	9,766.53	166.11	PBHL/TD 16376.18 MD/6354.00 TVD

<b>Database:</b>	DB_Jul2216dt_v14	<b>Local Co-ordinate Reference:</b>	Well Middlepark 18-15-3L
<b>Company:</b>	Confluence Resources	<b>TVD Reference:</b>	RKB=4559+24 @ 4583.00ft
<b>Project:</b>	Weld County, Colorado	<b>MD Reference:</b>	RKB=4559+24 @ 4583.00ft
<b>Site:</b>	Section 18-T04N-R62W	<b>North Reference:</b>	True
<b>Well:</b>	Middlepark 18-15-3L	<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 18-15-3L, Surf loc: 359 FSL 1543 FWL Section 18-T04N-R62W					
Well Position	+N/-S	0.00 ft	Northing:	14,638,847.39 usft	Latitude:	40.30616848
	+E/-W	0.00 ft	Easting:	1,815,775.38 usft	Longitude:	-104.37101673
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,559.00 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	52,247.30000000

<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	0.97

<b>Plan Survey Tool Program</b>	<b>Date</b>	4/27/2018		
<b>Depth From (ft)</b>	<b>Depth To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.00	16,376.05 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	
2,406.54	8.13	156.95	2,405.17	-26.50	11.27	2.00	2.00	0.00	156.95	
5,742.15	8.13	156.95	5,707.26	-460.60	195.98	0.00	0.00	0.00	0.00	
6,717.13	90.00	359.63	6,354.00	107.67	227.97	10.00	8.40	-16.14	-157.11	Middlepark 18-15-3L I
16,376.18	90.00	359.63	6,354.00	9,766.53	166.11	0.00	0.00	0.00	0.00	Middlepark 18-15-3L I



<b>Database:</b>	DB_Jul2216dt_v14	<b>Local Co-ordinate Reference:</b>	Well Middlepark 18-15-3L
<b>Company:</b>	Confluence Resources	<b>TVD Reference:</b>	RKB=4559+24 @ 4583.00ft
<b>Project:</b>	Weld County, Colorado	<b>MD Reference:</b>	RKB=4559+24 @ 4583.00ft
<b>Site:</b>	Section 18-T04N-R62W	<b>North Reference:</b>	True
<b>Well:</b>	Middlepark 18-15-3L	<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	14,638,847.39	1,815,775.38	40.30616848	-104.37101673
100.00	0.00	0.00	100.00	0.00	0.00	14,638,847.39	1,815,775.38	40.30616848	-104.37101673
200.00	0.00	0.00	200.00	0.00	0.00	14,638,847.39	1,815,775.38	40.30616848	-104.37101673
300.00	0.00	0.00	300.00	0.00	0.00	14,638,847.39	1,815,775.38	40.30616848	-104.37101673
400.00	0.00	0.00	400.00	0.00	0.00	14,638,847.39	1,815,775.38	40.30616848	-104.37101673
500.00	0.00	0.00	500.00	0.00	0.00	14,638,847.39	1,815,775.38	40.30616848	-104.37101673
600.00	0.00	0.00	600.00	0.00	0.00	14,638,847.39	1,815,775.38	40.30616848	-104.37101673
700.00	0.00	0.00	700.00	0.00	0.00	14,638,847.39	1,815,775.38	40.30616848	-104.37101673
800.00	0.00	0.00	800.00	0.00	0.00	14,638,847.39	1,815,775.38	40.30616848	-104.37101673
900.00	0.00	0.00	900.00	0.00	0.00	14,638,847.39	1,815,775.38	40.30616848	-104.37101673
1,000.00	0.00	0.00	1,000.00	0.00	0.00	14,638,847.39	1,815,775.38	40.30616848	-104.37101673
1,100.00	0.00	0.00	1,100.00	0.00	0.00	14,638,847.39	1,815,775.38	40.30616848	-104.37101673
1,200.00	0.00	0.00	1,200.00	0.00	0.00	14,638,847.39	1,815,775.38	40.30616848	-104.37101673
1,300.00	0.00	0.00	1,300.00	0.00	0.00	14,638,847.39	1,815,775.38	40.30616848	-104.37101673
1,400.00	0.00	0.00	1,400.00	0.00	0.00	14,638,847.39	1,815,775.38	40.30616848	-104.37101673
1,500.00	0.00	0.00	1,500.00	0.00	0.00	14,638,847.39	1,815,775.38	40.30616848	-104.37101673
1,600.00	0.00	0.00	1,600.00	0.00	0.00	14,638,847.39	1,815,775.38	40.30616848	-104.37101673
1,700.00	0.00	0.00	1,700.00	0.00	0.00	14,638,847.39	1,815,775.38	40.30616848	-104.37101673
1,800.00	0.00	0.00	1,800.00	0.00	0.00	14,638,847.39	1,815,775.38	40.30616848	-104.37101673
1,900.00	0.00	0.00	1,900.00	0.00	0.00	14,638,847.39	1,815,775.38	40.30616848	-104.37101673
2,000.00	0.00	0.00	2,000.00	0.00	0.00	14,638,847.39	1,815,775.38	40.30616848	-104.37101673
<b>KOP Begin 1°/100' build</b>									
2,100.00	2.00	156.95	2,099.98	-1.61	0.68	14,638,845.79	1,815,776.08	40.30616407	-104.37101428
2,200.00	4.00	156.95	2,199.84	-6.42	2.73	14,638,840.99	1,815,778.16	40.30615084	-104.37100693
2,300.00	6.00	156.95	2,299.45	-14.44	6.14	14,638,832.99	1,815,781.63	40.30612882	-104.37099470
2,400.00	8.00	156.95	2,398.70	-25.65	10.92	14,638,821.81	1,815,786.48	40.30609803	-104.37097758
2,406.54	8.13	156.95	2,405.18	-26.50	11.27	14,638,820.97	1,815,786.84	40.30609571	-104.37097629
<b>Begin 8.13° tangent</b>									
2,500.00	8.13	156.95	2,497.70	-38.66	16.45	14,638,808.84	1,815,792.10	40.30606231	-104.37095773
2,600.00	8.13	156.95	2,596.69	-51.68	21.99	14,638,795.87	1,815,797.73	40.30602658	-104.37093787
2,700.00	8.13	156.95	2,695.69	-64.69	27.52	14,638,782.89	1,815,803.36	40.30599084	-104.37091801
2,800.00	8.13	156.95	2,794.68	-77.70	33.06	14,638,769.92	1,815,808.99	40.30595511	-104.37089815
2,900.00	8.13	156.95	2,893.68	-90.72	38.60	14,638,756.95	1,815,814.62	40.30591937	-104.37087829
3,000.00	8.13	156.95	2,992.67	-103.73	44.14	14,638,743.97	1,815,820.25	40.30588363	-104.37085843
3,100.00	8.13	156.95	3,091.67	-116.75	49.67	14,638,731.00	1,815,825.88	40.30584790	-104.37083857
3,200.00	8.13	156.95	3,190.66	-129.76	55.21	14,638,718.02	1,815,831.51	40.30581216	-104.37081871
3,300.00	8.13	156.95	3,289.66	-142.78	60.75	14,638,705.05	1,815,837.14	40.30577642	-104.37079885
3,400.00	8.13	156.95	3,388.65	-155.79	66.29	14,638,692.07	1,815,842.77	40.30574069	-104.37077899
3,500.00	8.13	156.95	3,487.65	-168.80	71.82	14,638,679.10	1,815,848.40	40.30570495	-104.37075913
3,600.00	8.13	156.95	3,586.64	-181.82	77.36	14,638,666.12	1,815,854.03	40.30566922	-104.37073926
3,700.00	8.13	156.95	3,685.63	-194.83	82.90	14,638,653.15	1,815,859.66	40.30563348	-104.37071940
3,800.00	8.13	156.95	3,784.63	-207.85	88.44	14,638,640.17	1,815,865.29	40.30559774	-104.37069954
3,900.00	8.13	156.95	3,883.62	-220.86	93.97	14,638,627.20	1,815,870.92	40.30556201	-104.37067968
4,000.00	8.13	156.95	3,982.62	-233.87	99.51	14,638,614.23	1,815,876.55	40.30552627	-104.37065982
4,100.00	8.13	156.95	4,081.61	-246.89	105.05	14,638,601.25	1,815,882.18	40.30549053	-104.37063996
4,200.00	8.13	156.95	4,180.61	-259.90	110.58	14,638,588.28	1,815,887.81	40.30545480	-104.37062010
4,300.00	8.13	156.95	4,279.60	-272.92	116.12	14,638,575.30	1,815,893.44	40.30541906	-104.37060024
4,400.00	8.13	156.95	4,378.60	-285.93	121.66	14,638,562.33	1,815,899.07	40.30538332	-104.37058038
4,500.00	8.13	156.95	4,477.59	-298.95	127.20	14,638,549.35	1,815,904.70	40.30534759	-104.37056052
4,600.00	8.13	156.95	4,576.59	-311.96	132.73	14,638,536.38	1,815,910.33	40.30531185	-104.37054066
4,700.00	8.13	156.95	4,675.58	-324.97	138.27	14,638,523.40	1,815,915.96	40.30527612	-104.37052080
4,800.00	8.13	156.95	4,774.58	-337.99	143.81	14,638,510.43	1,815,921.59	40.30524038	-104.37050094
4,900.00	8.13	156.95	4,873.57	-351.00	149.35	14,638,497.46	1,815,927.22	40.30520464	-104.37048108
5,000.00	8.13	156.95	4,972.57	-364.02	154.88	14,638,484.48	1,815,932.84	40.30516891	-104.37046122



<b>Database:</b>	DB_Jul2216dt_v14	<b>Local Co-ordinate Reference:</b>	Well Middlepark 18-15-3L
<b>Company:</b>	Confluence Resources	<b>TVD Reference:</b>	RKB=4559+24 @ 4583.00ft
<b>Project:</b>	Weld County, Colorado	<b>MD Reference:</b>	RKB=4559+24 @ 4583.00ft
<b>Site:</b>	Section 18-T04N-R62W	<b>North Reference:</b>	True
<b>Well:</b>	Middlepark 18-15-3L	<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	8.13	156.95	5,071.56	-377.03	160.42	14,638,471.51	1,815,938.47	40.30513317	-104.37044136
5,200.00	8.13	156.95	5,170.56	-390.04	165.96	14,638,458.53	1,815,944.10	40.30509743	-104.37042150
5,300.00	8.13	156.95	5,269.55	-403.06	171.50	14,638,445.56	1,815,949.73	40.30506170	-104.37040164
5,400.00	8.13	156.95	5,368.55	-416.07	177.03	14,638,432.58	1,815,955.36	40.30502596	-104.37038178
5,500.00	8.13	156.95	5,467.54	-429.09	182.57	14,638,419.61	1,815,960.99	40.30499022	-104.37036192
5,600.00	8.13	156.95	5,566.54	-442.10	188.11	14,638,406.63	1,815,966.62	40.30495449	-104.37034206
5,700.00	8.13	156.95	5,665.53	-455.12	193.64	14,638,393.66	1,815,972.25	40.30491875	-104.37032220
5,742.15	8.13	156.95	5,707.26	-460.60	195.98	14,638,388.19	1,815,974.63	40.30490369	-104.37031383
<b>Begin 10°/100' build</b>									
5,800.00	3.59	118.16	5,764.81	-465.22	199.18	14,638,383.59	1,815,977.86	40.30489100	-104.37030235
5,900.00	8.86	20.32	5,864.37	-459.46	204.63	14,638,389.39	1,815,983.27	40.30490682	-104.37028281
6,000.00	18.55	9.08	5,961.42	-436.47	209.83	14,638,412.41	1,815,988.30	40.30496994	-104.37026416
6,100.00	28.45	5.47	6,053.02	-396.96	214.62	14,638,451.96	1,815,992.81	40.30507845	-104.37024696
6,200.00	38.40	3.62	6,136.38	-342.12	218.86	14,638,506.83	1,815,996.67	40.30522904	-104.37023175
6,300.00	48.36	2.44	6,208.97	-273.62	222.42	14,638,575.36	1,815,999.74	40.30541714	-104.37021898
6,400.00	58.34	1.58	6,268.58	-193.53	225.19	14,638,655.46	1,816,001.94	40.30563704	-104.37020903
6,500.00	68.32	0.89	6,313.41	-104.31	227.09	14,638,744.70	1,816,003.21	40.30588206	-104.37020222
6,600.00	78.31	0.29	6,342.09	-8.64	228.06	14,638,840.36	1,816,003.50	40.30614474	-104.37019875
6,700.00	88.29	359.73	6,353.74	90.55	228.07	14,638,939.55	1,816,002.80	40.30641711	-104.37019872
6,717.13	90.00	359.63	6,354.00	107.67	227.97	14,638,956.68	1,816,002.58	40.30646414	-104.37019906
<b>LP Begin 90° lateral</b>									
6,800.00	90.00	359.63	6,354.00	190.54	227.44	14,639,039.54	1,816,001.46	40.30669169	-104.37020096
6,900.00	90.00	359.63	6,354.00	290.54	226.80	14,639,139.53	1,816,000.11	40.30696628	-104.37020326
7,000.00	90.00	359.63	6,354.00	390.54	226.16	14,639,239.52	1,815,998.76	40.30724087	-104.37020555
7,100.00	90.00	359.63	6,354.00	490.54	225.52	14,639,339.51	1,815,997.41	40.30751546	-104.37020785
7,200.00	90.00	359.63	6,354.00	590.53	224.88	14,639,439.50	1,815,996.06	40.30779005	-104.37021014
7,300.00	90.00	359.63	6,354.00	690.53	224.24	14,639,539.49	1,815,994.71	40.30806464	-104.37021243
7,400.00	90.00	359.63	6,354.00	790.53	223.60	14,639,639.48	1,815,993.36	40.30833923	-104.37021473
7,500.00	90.00	359.63	6,354.00	890.53	222.96	14,639,739.47	1,815,992.01	40.30861382	-104.37021702
7,600.00	90.00	359.63	6,354.00	990.53	222.32	14,639,839.47	1,815,990.66	40.30888840	-104.37021931
7,700.00	90.00	359.63	6,354.00	1,090.52	221.68	14,639,939.46	1,815,989.31	40.30916299	-104.37022161
7,800.00	90.00	359.63	6,354.00	1,190.52	221.04	14,640,039.45	1,815,987.96	40.30943758	-104.37022390
7,900.00	90.00	359.63	6,354.00	1,290.52	220.40	14,640,139.44	1,815,986.61	40.30971217	-104.37022620
8,000.00	90.00	359.63	6,354.00	1,390.52	219.76	14,640,239.43	1,815,985.25	40.30998676	-104.37022849
8,100.00	90.00	359.63	6,354.00	1,490.52	219.11	14,640,339.42	1,815,983.90	40.31026135	-104.37023078
8,200.00	90.00	359.63	6,354.00	1,590.51	218.47	14,640,439.41	1,815,982.55	40.31053594	-104.37023308
8,300.00	90.00	359.63	6,354.00	1,690.51	217.83	14,640,539.40	1,815,981.20	40.31081053	-104.37023537
8,400.00	90.00	359.63	6,354.00	1,790.51	217.19	14,640,639.39	1,815,979.85	40.31108511	-104.37023767
8,500.00	90.00	359.63	6,354.00	1,890.51	216.55	14,640,739.38	1,815,978.50	40.31135970	-104.37023996
8,600.00	90.00	359.63	6,354.00	1,990.51	215.91	14,640,839.37	1,815,977.15	40.31163429	-104.37024225
8,700.00	90.00	359.63	6,354.00	2,090.50	215.27	14,640,939.36	1,815,975.80	40.31190888	-104.37024455
8,800.00	90.00	359.63	6,354.00	2,190.50	214.63	14,641,039.35	1,815,974.45	40.31218347	-104.37024684
8,900.00	90.00	359.63	6,354.00	2,290.50	213.99	14,641,139.34	1,815,973.10	40.31245806	-104.37024913
9,000.00	90.00	359.63	6,354.00	2,390.50	213.35	14,641,239.33	1,815,971.75	40.31273265	-104.37025143
9,100.00	90.00	359.63	6,354.00	2,490.50	212.71	14,641,339.33	1,815,970.40	40.31300723	-104.37025372
9,200.00	90.00	359.63	6,354.00	2,590.49	212.07	14,641,439.32	1,815,969.05	40.31328181	-104.37025602
9,300.00	90.00	359.63	6,354.00	2,690.49	211.43	14,641,539.31	1,815,967.70	40.31355640	-104.37025831
9,400.00	90.00	359.63	6,354.00	2,790.49	210.79	14,641,639.30	1,815,966.35	40.31383099	-104.37026060
9,500.00	90.00	359.63	6,354.00	2,890.49	210.15	14,641,739.29	1,815,965.00	40.31410558	-104.37026290
9,600.00	90.00	359.63	6,354.00	2,990.49	209.51	14,641,839.28	1,815,963.65	40.31438017	-104.37026519
9,700.00	90.00	359.63	6,354.00	3,090.48	208.87	14,641,939.27	1,815,962.30	40.31465476	-104.37026749
9,800.00	90.00	359.63	6,354.00	3,190.48	208.23	14,642,039.26	1,815,960.94	40.31492935	-104.37026978
9,900.00	90.00	359.63	6,354.00	3,290.48	207.59	14,642,139.25	1,815,959.59	40.31520393	-104.37027207
10,000.00	90.00	359.63	6,354.00	3,390.48	206.95	14,642,239.24	1,815,958.24	40.31547852	-104.37027437

<b>Database:</b>	DB_Jul2216dt_v14	<b>Local Co-ordinate Reference:</b>	Well Middlepark 18-15-3L
<b>Company:</b>	Confluence Resources	<b>TVD Reference:</b>	RKB=4559+24 @ 4583.00ft
<b>Project:</b>	Weld County, Colorado	<b>MD Reference:</b>	RKB=4559+24 @ 4583.00ft
<b>Site:</b>	Section 18-T04N-R62W	<b>North Reference:</b>	True
<b>Well:</b>	Middlepark 18-15-3L	<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	359.63	6,354.00	3,490.47	206.31	14,642,339.23	1,815,956.89	40.31575311	-104.37027666
10,200.00	90.00	359.63	6,354.00	3,590.47	205.67	14,642,439.22	1,815,955.54	40.31602770	-104.37027896
10,300.00	90.00	359.63	6,354.00	3,690.47	205.03	14,642,539.21	1,815,954.19	40.31630229	-104.37028125
10,400.00	90.00	359.63	6,354.00	3,790.47	204.39	14,642,639.20	1,815,952.84	40.31657688	-104.37028354
10,500.00	90.00	359.63	6,354.00	3,890.47	203.75	14,642,739.19	1,815,951.49	40.31685146	-104.37028584
10,600.00	90.00	359.63	6,354.00	3,990.46	203.10	14,642,839.19	1,815,950.14	40.31712605	-104.37028813
10,700.00	90.00	359.63	6,354.00	4,090.46	202.46	14,642,939.18	1,815,948.79	40.31740064	-104.37029043
10,800.00	90.00	359.63	6,354.00	4,190.46	201.82	14,643,039.17	1,815,947.44	40.31767523	-104.37029272
10,900.00	90.00	359.63	6,354.00	4,290.46	201.18	14,643,139.16	1,815,946.09	40.31794982	-104.37029501
11,000.00	90.00	359.63	6,354.00	4,390.46	200.54	14,643,239.15	1,815,944.74	40.31822441	-104.37029731
11,100.00	90.00	359.63	6,354.00	4,490.45	199.90	14,643,339.14	1,815,943.39	40.31849899	-104.37029960
11,200.00	90.00	359.63	6,354.00	4,590.45	199.26	14,643,439.13	1,815,942.04	40.31877358	-104.37030189
11,300.00	90.00	359.63	6,354.00	4,690.45	198.62	14,643,539.12	1,815,940.69	40.31904817	-104.37030419
11,400.00	90.00	359.63	6,354.00	4,790.45	197.98	14,643,639.11	1,815,939.34	40.31932276	-104.37030648
11,500.00	90.00	359.63	6,354.00	4,890.45	197.34	14,643,739.10	1,815,937.99	40.31959735	-104.37030878
11,600.00	90.00	359.63	6,354.00	4,990.44	196.70	14,643,839.09	1,815,936.64	40.31987194	-104.37031107
11,700.00	90.00	359.63	6,354.00	5,090.44	196.06	14,643,939.08	1,815,935.28	40.32014652	-104.37031336
11,800.00	90.00	359.63	6,354.00	5,190.44	195.42	14,644,039.07	1,815,933.93	40.32042111	-104.37031566
11,900.00	90.00	359.63	6,354.00	5,290.44	194.78	14,644,139.06	1,815,932.58	40.32069570	-104.37031795
12,000.00	90.00	359.63	6,354.00	5,390.44	194.14	14,644,239.06	1,815,931.23	40.32097029	-104.37032025
12,100.00	90.00	359.63	6,354.00	5,490.43	193.50	14,644,339.05	1,815,929.88	40.32124488	-104.37032254
12,200.00	90.00	359.63	6,354.00	5,590.43	192.86	14,644,439.04	1,815,928.53	40.32151947	-104.37032483
12,300.00	90.00	359.63	6,354.00	5,690.43	192.22	14,644,539.03	1,815,927.18	40.32179405	-104.37032713
12,400.00	90.00	359.63	6,354.00	5,790.43	191.58	14,644,639.02	1,815,925.83	40.32206864	-104.37032942
12,500.00	90.00	359.63	6,354.00	5,890.43	190.94	14,644,739.01	1,815,924.48	40.32234323	-104.37033172
12,600.00	90.00	359.63	6,354.00	5,990.42	190.30	14,644,839.00	1,815,923.13	40.32261782	-104.37033401
12,700.00	90.00	359.63	6,354.00	6,090.42	189.66	14,644,938.99	1,815,921.78	40.32289241	-104.37033630
12,800.00	90.00	359.63	6,354.00	6,190.42	189.02	14,645,038.98	1,815,920.43	40.32316699	-104.37033860
12,900.00	90.00	359.63	6,354.00	6,290.42	188.38	14,645,138.97	1,815,919.08	40.32344158	-104.37034089
13,000.00	90.00	359.63	6,354.00	6,390.42	187.74	14,645,238.96	1,815,917.73	40.32371617	-104.37034319
13,100.00	90.00	359.63	6,354.00	6,490.41	187.09	14,645,338.95	1,815,916.38	40.32399076	-104.37034548
13,200.00	90.00	359.63	6,354.00	6,590.41	186.45	14,645,438.94	1,815,915.03	40.32426535	-104.37034777
13,300.00	90.00	359.63	6,354.00	6,690.41	185.81	14,645,538.93	1,815,913.68	40.32453994	-104.37035007
13,400.00	90.00	359.63	6,354.00	6,790.41	185.17	14,645,638.92	1,815,912.33	40.32481452	-104.37035236
13,500.00	90.00	359.63	6,354.00	6,890.41	184.53	14,645,738.92	1,815,910.97	40.32508911	-104.37035466
13,600.00	90.00	359.63	6,354.00	6,990.40	183.89	14,645,838.91	1,815,909.62	40.32536370	-104.37035695
13,700.00	90.00	359.63	6,354.00	7,090.40	183.25	14,645,938.90	1,815,908.27	40.32563829	-104.37035925
13,800.00	90.00	359.63	6,354.00	7,190.40	182.61	14,646,038.89	1,815,906.92	40.32591288	-104.37036154
13,900.00	90.00	359.63	6,354.00	7,290.40	181.97	14,646,138.88	1,815,905.57	40.32618746	-104.37036383
14,000.00	90.00	359.63	6,354.00	7,390.39	181.33	14,646,238.87	1,815,904.22	40.32646205	-104.37036613
14,100.00	90.00	359.63	6,354.00	7,490.39	180.69	14,646,338.86	1,815,902.87	40.32673664	-104.37036842
14,200.00	90.00	359.63	6,354.00	7,590.39	180.05	14,646,438.85	1,815,901.52	40.32701123	-104.37037072
14,300.00	90.00	359.63	6,354.00	7,690.39	179.41	14,646,538.84	1,815,900.17	40.32728582	-104.37037301
14,400.00	90.00	359.63	6,354.00	7,790.39	178.77	14,646,638.83	1,815,898.82	40.32756040	-104.37037530
14,500.00	90.00	359.63	6,354.00	7,890.38	178.13	14,646,738.82	1,815,897.47	40.32783499	-104.37037760
14,600.00	90.00	359.63	6,354.00	7,990.38	177.49	14,646,838.81	1,815,896.12	40.32810958	-104.37037989
14,700.00	90.00	359.63	6,354.00	8,090.38	176.85	14,646,938.80	1,815,894.77	40.32838417	-104.37038219
14,800.00	90.00	359.63	6,354.00	8,190.38	176.21	14,647,038.79	1,815,893.42	40.32865876	-104.37038448
14,900.00	90.00	359.63	6,354.00	8,290.38	175.57	14,647,138.78	1,815,892.07	40.32893334	-104.37038677
15,000.00	90.00	359.63	6,354.00	8,390.37	174.93	14,647,238.78	1,815,890.72	40.32920793	-104.37038907
15,100.00	90.00	359.63	6,354.00	8,490.37	174.29	14,647,338.77	1,815,889.37	40.32948252	-104.37039136
15,200.00	90.00	359.63	6,354.00	8,590.37	173.65	14,647,438.76	1,815,888.02	40.32975711	-104.37039366
15,300.00	90.00	359.63	6,354.00	8,690.37	173.01	14,647,538.75	1,815,886.66	40.33003169	-104.37039595
15,400.00	90.00	359.63	6,354.00	8,790.37	172.37	14,647,638.74	1,815,885.31	40.33030628	-104.37039824
15,500.00	90.00	359.63	6,354.00	8,890.36	171.73	14,647,738.73	1,815,883.96	40.33058087	-104.37040054

<b>Database:</b>	DB_Jul2216dt_v14	<b>Local Co-ordinate Reference:</b>	Well Middlepark 18-15-3L
<b>Company:</b>	Confluence Resources	<b>TVD Reference:</b>	RKB=4559+24 @ 4583.00ft
<b>Project:</b>	Weld County, Colorado	<b>MD Reference:</b>	RKB=4559+24 @ 4583.00ft
<b>Site:</b>	Section 18-T04N-R62W	<b>North Reference:</b>	True
<b>Well:</b>	Middlepark 18-15-3L	<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	359.63	6,354.00	8,990.36	171.08	14,647,838.72	1,815,882.61	40.33085546	-104.37040283
15,700.00	90.00	359.63	6,354.00	9,090.36	170.44	14,647,938.71	1,815,881.26	40.33113005	-104.37040513
15,800.00	90.00	359.63	6,354.00	9,190.36	169.80	14,648,038.70	1,815,879.91	40.33140463	-104.37040742
15,900.00	90.00	359.63	6,354.00	9,290.36	169.16	14,648,138.69	1,815,878.56	40.33167922	-104.37040972
16,000.00	90.00	359.63	6,354.00	9,390.35	168.52	14,648,238.68	1,815,877.21	40.33195381	-104.37041201
16,100.00	90.00	359.63	6,354.00	9,490.35	167.88	14,648,338.67	1,815,875.86	40.33222840	-104.37041430
16,200.00	90.00	359.63	6,354.00	9,590.35	167.24	14,648,438.66	1,815,874.51	40.33250298	-104.37041660
16,300.00	90.00	359.63	6,354.00	9,690.35	166.60	14,648,538.65	1,815,873.16	40.33277757	-104.37041889
16,376.18	90.00	359.63	6,354.00	9,766.53	166.11	14,648,614.83	1,815,872.13	40.33298675	-104.37042064
PBHL/TD 16376.18 MD/6354.00 TVD									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Middlepark 18-15-3L BH - plan hits target center - Point	0.00	0.00	6,354.00	9,766.53	166.11	14,648,614.83	1,815,872.13	40.33298675	-104.37042064
Middlepark 18-15-3L LP - plan hits target center - Point	0.00	0.00	6,354.00	107.67	227.97	14,638,956.68	1,816,002.58	40.30646414	-104.37019906

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 1°/100' build
2,406.54	2,405.18	-26.50	11.27	Begin 8.13° tangent
5,742.15	5,707.26	-460.60	195.98	Begin 10°/100' build
6,717.13	6,354.00	107.67	227.97	LP Begin 90° lateral
16,376.18	6,354.00	9,766.53	166.11	PBHL/TD 16376.18 MD/6354.00 TVD