

Weld County, Colorado

Section 06-T07N-R64W

Dotsero 6-05-01L

plan1

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	3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	KOP Begin 1°/100' build
3	4613.26	16.13	128.75	4592.03	-141.23	175.96	1.00	-169.09	Begin 16.13° tangent
4	6434.28	16.13	128.75	6341.34	-457.96	570.56	0.00	-548.29	Begin 10°/100' build/turn
5	7460.81	90.00	270.78	7029.00	-572.68	9.90	10.00	17.16	Begin 90.00° lateral
6	16865.64	90.00	270.78	7029.00	-444.22	-9394.05	0.00	9404.55	PBHL/TD 16865.63 MD/7029.00 TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Dotsero 6-05-01L LP 1844 FNL 470 FEL	7029.00	-572.68	9.90	14746975.49	1755718.65	40.60404851	-104.58459926
Dotsero 6-05-01L PBHL 1844 FNL 470 FWL	7029.00	-444.22	-9394.05	14747059.58	1746314.22	40.60439628	-104.61847873

Dotsero 6-05-01L			
Surf loc: 1271 FNL 475 FEL Section 06-T07N-R64W			
NAD83 Colorado - HARN			
Universal Transverse Mercator (US Survey Feet)			
Zone 13N (108 W to 102 W)			
RKB=4995+24 @ 5019.00ft			
Northing	Easting	Latitude	Longitude
14747548.12	1755706.05	40.60562101	-104.58463492



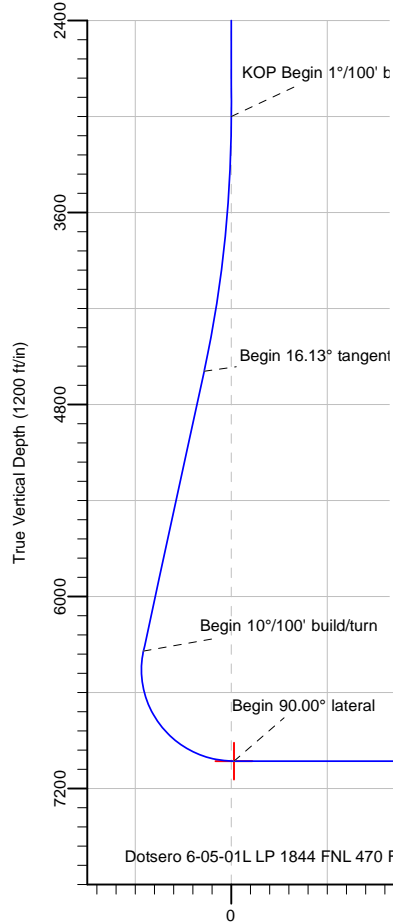
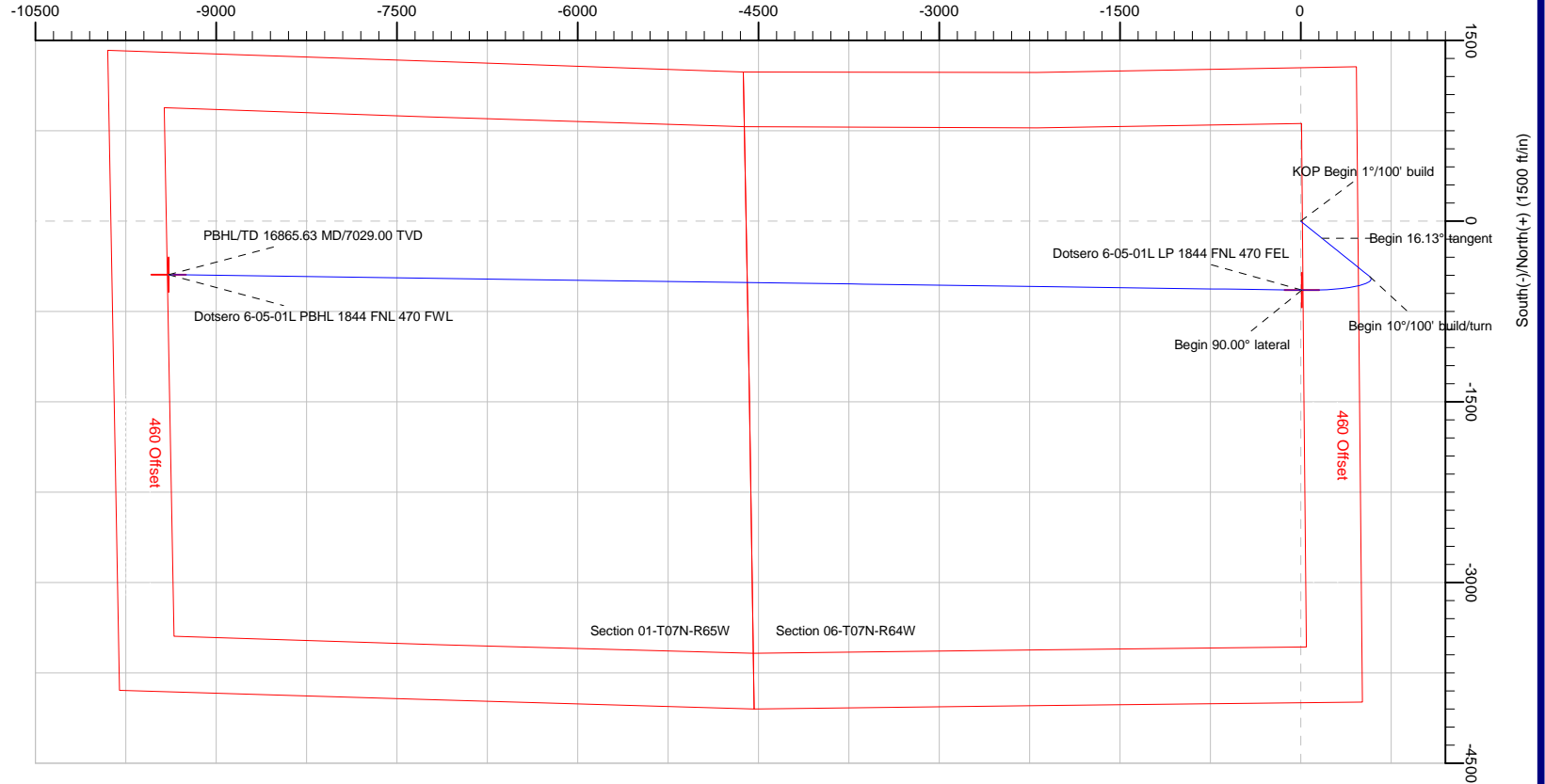
Azimuths to True North
Magnetic North: 8.00°

Magnetic Field
Strength: 52364.8snT
Dip Angle: 66.98°
Date: 2/18/2018
Model: HDGM

Azimuth Corrections:

To convert a Magnetic Direction to a True Direction, Add 8.00° East

West(-)/East(+) (1500 ft/in)



Vertical Section at 267.29° (1200 ft/in)

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

Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Dotsero 6-05-01L
Company:	Confluence Resources	TVD Reference:	RKB=4995+24 @ 5019.00ft
Project:	Weld County, Colorado	MD Reference:	RKB=4995+24 @ 5019.00ft
Site:	Section 06-T07N-R64W	North Reference:	True
Well:	Dotsero 6-05-01L	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	plan1		

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

Site		Section 06-T07N-R64W			
Site Position:		Northing:	14,746,184.54 usft	Latitude:	40.60187654
From:	Map	Easting:	1,755,730.03 usft	Longitude:	-104.58457171
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.27 °

Well	Dotsero 6-05-01L, Surf loc: 1271 FNL 475 FEL Section 06-T07N-R64W					
Well Position	+N/-S	1,363.68 ft	Northing:	14,747,548.12 usft	Latitude:	40.60562101
	+E/-W	-17.55 ft	Easting:	1,755,706.05 usft	Longitude:	-104.58463492
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,995.00 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	2/18/2018	8.00	66.98	52,364.80000000

Design	plan1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	267.29

Plan Survey Tool Program	Date	2/18/2018		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	16,865.64	plan1 (Original Hole)	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,613.26	16.13	128.75	4,592.03	-141.23	175.96	1.00	1.00	0.00	128.75	
6,434.28	16.13	128.75	6,341.34	-457.96	570.56	0.00	0.00	0.00	0.00	
7,460.81	90.00	270.78	7,029.00	-572.68	9.90	10.00	7.20	13.84	140.91	Dotsero 6-05-01L LP
16,865.64	90.00	270.78	7,029.00	-444.22	-9,394.05	0.00	0.00	0.00	0.00	Dotsero 6-05-01L PBI

Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Dotsero 6-05-01L
Company:	Confluence Resources	TVD Reference:	RKB=4995+24 @ 5019.00ft
Project:	Weld County, Colorado	MD Reference:	RKB=4995+24 @ 5019.00ft
Site:	Section 06-T07N-R64W	North Reference:	True
Well:	Dotsero 6-05-01L	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	plan1		

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
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP Begin 1°/100' build									
3,100.00	1.00	128.75	3,099.99	-0.55	0.68	-0.65	1.00	1.00	0.00
3,200.00	2.00	128.75	3,199.96	-2.18	2.72	-2.62	1.00	1.00	0.00
3,300.00	3.00	128.75	3,299.86	-4.92	6.12	-5.88	1.00	1.00	0.00
3,400.00	4.00	128.75	3,399.68	-8.74	10.88	-10.46	1.00	1.00	0.00
3,500.00	5.00	128.75	3,499.37	-13.65	17.00	-16.34	1.00	1.00	0.00
3,600.00	6.00	128.75	3,598.90	-19.65	24.48	-23.52	1.00	1.00	0.00
3,700.00	7.00	128.75	3,698.26	-26.73	33.31	-32.01	1.00	1.00	0.00
3,800.00	8.00	128.75	3,797.40	-34.90	43.49	-41.79	1.00	1.00	0.00
3,900.00	9.00	128.75	3,896.30	-44.15	55.01	-52.86	1.00	1.00	0.00
4,000.00	10.00	128.75	3,994.93	-54.49	67.88	-65.23	1.00	1.00	0.00
4,100.00	11.00	128.75	4,093.26	-65.89	82.09	-78.89	1.00	1.00	0.00
4,200.00	12.00	128.75	4,191.25	-78.37	97.64	-93.83	1.00	1.00	0.00
4,300.00	13.00	128.75	4,288.87	-91.92	114.52	-110.05	1.00	1.00	0.00
4,400.00	14.00	128.75	4,386.11	-106.53	132.73	-127.55	1.00	1.00	0.00
4,500.00	15.00	128.75	4,482.92	-122.20	152.25	-146.31	1.00	1.00	0.00
4,600.00	16.00	128.75	4,579.29	-138.93	173.09	-166.34	1.00	1.00	0.00
4,613.26	16.13	128.75	4,592.03	-141.23	175.96	-169.09	1.00	1.00	0.00
Begin 16.13° tangent									
4,700.00	16.13	128.75	4,675.35	-156.32	194.75	-187.15	0.00	0.00	0.00
4,800.00	16.13	128.75	4,771.41	-173.71	216.42	-207.97	0.00	0.00	0.00
4,900.00	16.13	128.75	4,867.48	-191.10	238.09	-228.80	0.00	0.00	0.00

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Project:	Weld County, Colorado	MD Reference:	RKB=4995+24 @ 5019.00ft
Site:	Section 06-T07N-R64W	North Reference:	True
Well:	Dotsero 6-05-01L	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	plan1		

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	16.13	128.75	4,963.54	-208.49	259.76	-249.62	0.00	0.00	0.00
5,100.00	16.13	128.75	5,059.60	-225.89	281.43	-270.45	0.00	0.00	0.00
5,200.00	16.13	128.75	5,155.66	-243.28	303.10	-291.27	0.00	0.00	0.00
5,300.00	16.13	128.75	5,251.72	-260.67	324.77	-312.09	0.00	0.00	0.00
5,400.00	16.13	128.75	5,347.79	-278.07	346.44	-332.92	0.00	0.00	0.00
5,500.00	16.13	128.75	5,443.85	-295.46	368.11	-353.74	0.00	0.00	0.00
5,600.00	16.13	128.75	5,539.91	-312.85	389.78	-374.56	0.00	0.00	0.00
5,700.00	16.13	128.75	5,635.97	-330.24	411.45	-395.39	0.00	0.00	0.00
5,800.00	16.13	128.75	5,732.04	-347.64	433.11	-416.21	0.00	0.00	0.00
5,900.00	16.13	128.75	5,828.10	-365.03	454.78	-437.03	0.00	0.00	0.00
6,000.00	16.13	128.75	5,924.16	-382.42	476.45	-457.86	0.00	0.00	0.00
6,100.00	16.13	128.75	6,020.22	-399.82	498.12	-478.68	0.00	0.00	0.00
6,200.00	16.13	128.75	6,116.28	-417.21	519.79	-499.51	0.00	0.00	0.00
6,300.00	16.13	128.75	6,212.35	-434.60	541.46	-520.33	0.00	0.00	0.00
6,400.00	16.13	128.75	6,308.41	-451.99	563.13	-541.15	0.00	0.00	0.00
6,434.28	16.13	128.75	6,341.34	-457.96	570.56	-548.29	0.00	0.00	0.00
Begin 10°/100' build/turn									
6,500.00	11.77	149.48	6,405.14	-469.46	581.09	-558.27	10.00	-6.65	31.54
6,600.00	10.82	202.14	6,503.45	-486.98	582.74	-559.09	10.00	-0.95	52.66
6,700.00	17.13	235.52	6,600.59	-504.05	567.02	-542.58	10.00	6.32	33.39
6,800.00	25.84	249.23	6,693.61	-520.16	534.42	-509.25	10.00	8.71	13.70
6,900.00	35.21	256.18	6,779.68	-534.81	485.92	-460.11	10.00	9.37	6.95
7,000.00	44.83	260.47	6,856.18	-547.57	423.00	-396.66	10.00	9.62	4.29
7,100.00	54.56	263.51	6,920.80	-558.04	347.56	-320.82	10.00	9.73	3.04
7,200.00	64.35	265.88	6,971.56	-565.90	261.91	-234.89	10.00	9.79	2.37
7,300.00	74.17	267.89	7,006.93	-570.92	168.65	-141.49	10.00	9.82	2.01
7,400.00	84.01	269.71	7,025.83	-572.95	70.60	-43.46	10.00	9.84	1.82
7,460.81	90.00	270.78	7,029.00	-572.68	9.90	17.16	10.00	9.84	1.76
Begin 90.00° lateral									
7,500.00	90.00	270.78	7,029.00	-572.15	-29.28	56.28	0.00	0.00	0.00
7,600.00	90.00	270.78	7,029.00	-570.78	-129.27	156.09	0.00	0.00	0.00
7,700.00	90.00	270.78	7,029.00	-569.42	-229.27	255.91	0.00	0.00	0.00
7,800.00	90.00	270.78	7,029.00	-568.05	-329.26	355.72	0.00	0.00	0.00
7,900.00	90.00	270.78	7,029.00	-566.69	-429.25	455.53	0.00	0.00	0.00
8,000.00	90.00	270.78	7,029.00	-565.32	-529.24	555.35	0.00	0.00	0.00
8,100.00	90.00	270.78	7,029.00	-563.95	-629.23	655.16	0.00	0.00	0.00
8,200.00	90.00	270.78	7,029.00	-562.59	-729.22	754.98	0.00	0.00	0.00
8,300.00	90.00	270.78	7,029.00	-561.22	-829.21	854.79	0.00	0.00	0.00
8,400.00	90.00	270.78	7,029.00	-559.86	-929.20	954.61	0.00	0.00	0.00
8,500.00	90.00	270.78	7,029.00	-558.49	-1,029.19	1,054.42	0.00	0.00	0.00
8,600.00	90.00	270.78	7,029.00	-557.12	-1,129.18	1,154.24	0.00	0.00	0.00
8,700.00	90.00	270.78	7,029.00	-555.76	-1,229.17	1,254.05	0.00	0.00	0.00
8,800.00	90.00	270.78	7,029.00	-554.39	-1,329.16	1,353.87	0.00	0.00	0.00
8,900.00	90.00	270.78	7,029.00	-553.03	-1,429.15	1,453.68	0.00	0.00	0.00
9,000.00	90.00	270.78	7,029.00	-551.66	-1,529.14	1,553.49	0.00	0.00	0.00
9,100.00	90.00	270.78	7,029.00	-550.29	-1,629.13	1,653.31	0.00	0.00	0.00
9,200.00	90.00	270.78	7,029.00	-548.93	-1,729.13	1,753.12	0.00	0.00	0.00
9,300.00	90.00	270.78	7,029.00	-547.56	-1,829.12	1,852.94	0.00	0.00	0.00
9,400.00	90.00	270.78	7,029.00	-546.20	-1,929.11	1,952.75	0.00	0.00	0.00
9,500.00	90.00	270.78	7,029.00	-544.83	-2,029.10	2,052.57	0.00	0.00	0.00
9,600.00	90.00	270.78	7,029.00	-543.46	-2,129.09	2,152.38	0.00	0.00	0.00
9,700.00	90.00	270.78	7,029.00	-542.10	-2,229.08	2,252.20	0.00	0.00	0.00
9,800.00	90.00	270.78	7,029.00	-540.73	-2,329.07	2,352.01	0.00	0.00	0.00
9,900.00	90.00	270.78	7,029.00	-539.37	-2,429.06	2,451.83	0.00	0.00	0.00

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Project:	Weld County, Colorado	MD Reference:	RKB=4995+24 @ 5019.00ft
Site:	Section 06-T07N-R64W	North Reference:	True
Well:	Dotsero 6-05-01L	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	plan1		

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	270.78	7,029.00	-538.00	-2,529.05	2,551.64	0.00	0.00	0.00
10,100.00	90.00	270.78	7,029.00	-536.63	-2,629.04	2,651.45	0.00	0.00	0.00
10,200.00	90.00	270.78	7,029.00	-535.27	-2,729.03	2,751.27	0.00	0.00	0.00
10,300.00	90.00	270.78	7,029.00	-533.90	-2,829.02	2,851.08	0.00	0.00	0.00
10,400.00	90.00	270.78	7,029.00	-532.54	-2,929.01	2,950.90	0.00	0.00	0.00
10,500.00	90.00	270.78	7,029.00	-531.17	-3,029.00	3,050.71	0.00	0.00	0.00
10,600.00	90.00	270.78	7,029.00	-529.80	-3,128.99	3,150.53	0.00	0.00	0.00
10,700.00	90.00	270.78	7,029.00	-528.44	-3,228.99	3,250.34	0.00	0.00	0.00
10,800.00	90.00	270.78	7,029.00	-527.07	-3,328.98	3,350.16	0.00	0.00	0.00
10,900.00	90.00	270.78	7,029.00	-525.71	-3,428.97	3,449.97	0.00	0.00	0.00
11,000.00	90.00	270.78	7,029.00	-524.34	-3,528.96	3,549.79	0.00	0.00	0.00
11,100.00	90.00	270.78	7,029.00	-522.97	-3,628.95	3,649.60	0.00	0.00	0.00
11,200.00	90.00	270.78	7,029.00	-521.61	-3,728.94	3,749.41	0.00	0.00	0.00
11,300.00	90.00	270.78	7,029.00	-520.24	-3,828.93	3,849.23	0.00	0.00	0.00
11,400.00	90.00	270.78	7,029.00	-518.88	-3,928.92	3,949.04	0.00	0.00	0.00
11,500.00	90.00	270.78	7,029.00	-517.51	-4,028.91	4,048.86	0.00	0.00	0.00
11,600.00	90.00	270.78	7,029.00	-516.14	-4,128.90	4,148.67	0.00	0.00	0.00
11,700.00	90.00	270.78	7,029.00	-514.78	-4,228.89	4,248.49	0.00	0.00	0.00
11,800.00	90.00	270.78	7,029.00	-513.41	-4,328.88	4,348.30	0.00	0.00	0.00
11,900.00	90.00	270.78	7,029.00	-512.05	-4,428.87	4,448.12	0.00	0.00	0.00
12,000.00	90.00	270.78	7,029.00	-510.68	-4,528.86	4,547.93	0.00	0.00	0.00
12,100.00	90.00	270.78	7,029.00	-509.32	-4,628.85	4,647.75	0.00	0.00	0.00
12,200.00	90.00	270.78	7,029.00	-507.95	-4,728.85	4,747.56	0.00	0.00	0.00
12,300.00	90.00	270.78	7,029.00	-506.58	-4,828.84	4,847.37	0.00	0.00	0.00
12,400.00	90.00	270.78	7,029.00	-505.22	-4,928.83	4,947.19	0.00	0.00	0.00
12,500.00	90.00	270.78	7,029.00	-503.85	-5,028.82	5,047.00	0.00	0.00	0.00
12,600.00	90.00	270.78	7,029.00	-502.49	-5,128.81	5,146.82	0.00	0.00	0.00
12,700.00	90.00	270.78	7,029.00	-501.12	-5,228.80	5,246.63	0.00	0.00	0.00
12,800.00	90.00	270.78	7,029.00	-499.75	-5,328.79	5,346.45	0.00	0.00	0.00
12,900.00	90.00	270.78	7,029.00	-498.39	-5,428.78	5,446.26	0.00	0.00	0.00
13,000.00	90.00	270.78	7,029.00	-497.02	-5,528.77	5,546.08	0.00	0.00	0.00
13,100.00	90.00	270.78	7,029.00	-495.66	-5,628.76	5,645.89	0.00	0.00	0.00
13,200.00	90.00	270.78	7,029.00	-494.29	-5,728.75	5,745.71	0.00	0.00	0.00
13,300.00	90.00	270.78	7,029.00	-492.92	-5,828.74	5,845.52	0.00	0.00	0.00
13,400.00	90.00	270.78	7,029.00	-491.56	-5,928.73	5,945.33	0.00	0.00	0.00
13,500.00	90.00	270.78	7,029.00	-490.19	-6,028.72	6,045.15	0.00	0.00	0.00
13,600.00	90.00	270.78	7,029.00	-488.83	-6,128.72	6,144.96	0.00	0.00	0.00
13,700.00	90.00	270.78	7,029.00	-487.46	-6,228.71	6,244.78	0.00	0.00	0.00
13,800.00	90.00	270.78	7,029.00	-486.09	-6,328.70	6,344.59	0.00	0.00	0.00
13,900.00	90.00	270.78	7,029.00	-484.73	-6,428.69	6,444.41	0.00	0.00	0.00
14,000.00	90.00	270.78	7,029.00	-483.36	-6,528.68	6,544.22	0.00	0.00	0.00
14,100.00	90.00	270.78	7,029.00	-482.00	-6,628.67	6,644.04	0.00	0.00	0.00
14,200.00	90.00	270.78	7,029.00	-480.63	-6,728.66	6,743.85	0.00	0.00	0.00
14,300.00	90.00	270.78	7,029.00	-479.26	-6,828.65	6,843.67	0.00	0.00	0.00
14,400.00	90.00	270.78	7,029.00	-477.90	-6,928.64	6,943.48	0.00	0.00	0.00
14,500.00	90.00	270.78	7,029.00	-476.53	-7,028.63	7,043.29	0.00	0.00	0.00
14,600.00	90.00	270.78	7,029.00	-475.17	-7,128.62	7,143.11	0.00	0.00	0.00
14,700.00	90.00	270.78	7,029.00	-473.80	-7,228.61	7,242.92	0.00	0.00	0.00
14,800.00	90.00	270.78	7,029.00	-472.43	-7,328.60	7,342.74	0.00	0.00	0.00
14,900.00	90.00	270.78	7,029.00	-471.07	-7,428.59	7,442.55	0.00	0.00	0.00
15,000.00	90.00	270.78	7,029.00	-469.70	-7,528.58	7,542.37	0.00	0.00	0.00
15,100.00	90.00	270.78	7,029.00	-468.34	-7,628.58	7,642.18	0.00	0.00	0.00
15,200.00	90.00	270.78	7,029.00	-466.97	-7,728.57	7,742.00	0.00	0.00	0.00
15,300.00	90.00	270.78	7,029.00	-465.60	-7,828.56	7,841.81	0.00	0.00	0.00

Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Dotsero 6-05-01L
Company:	Confluence Resources	TVD Reference:	RKB=4995+24 @ 5019.00ft
Project:	Weld County, Colorado	MD Reference:	RKB=4995+24 @ 5019.00ft
Site:	Section 06-T07N-R64W	North Reference:	True
Well:	Dotsero 6-05-01L	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	plan1		

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	270.78	7,029.00	-464.24	-7,928.55	7,941.63	0.00	0.00	0.00
15,500.00	90.00	270.78	7,029.00	-462.87	-8,028.54	8,041.44	0.00	0.00	0.00
15,600.00	90.00	270.78	7,029.00	-461.51	-8,128.53	8,141.25	0.00	0.00	0.00
15,700.00	90.00	270.78	7,029.00	-460.14	-8,228.52	8,241.07	0.00	0.00	0.00
15,800.00	90.00	270.78	7,029.00	-458.78	-8,328.51	8,340.88	0.00	0.00	0.00
15,900.00	90.00	270.78	7,029.00	-457.41	-8,428.50	8,440.70	0.00	0.00	0.00
16,000.00	90.00	270.78	7,029.00	-456.04	-8,528.49	8,540.51	0.00	0.00	0.00
16,100.00	90.00	270.78	7,029.00	-454.68	-8,628.48	8,640.33	0.00	0.00	0.00
16,200.00	90.00	270.78	7,029.00	-453.31	-8,728.47	8,740.14	0.00	0.00	0.00
16,300.00	90.00	270.78	7,029.00	-451.95	-8,828.46	8,839.96	0.00	0.00	0.00
16,400.00	90.00	270.78	7,029.00	-450.58	-8,928.45	8,939.77	0.00	0.00	0.00
16,500.00	90.00	270.78	7,029.00	-449.21	-9,028.44	9,039.59	0.00	0.00	0.00
16,600.00	90.00	270.78	7,029.00	-447.85	-9,128.44	9,139.40	0.00	0.00	0.00
16,700.00	90.00	270.78	7,029.00	-446.48	-9,228.43	9,239.21	0.00	0.00	0.00
16,800.00	90.00	270.78	7,029.00	-445.12	-9,328.42	9,339.03	0.00	0.00	0.00
16,865.63	90.00	270.78	7,029.00	-444.22	-9,394.04	9,404.54	0.00	0.00	0.00
PBHL/TD 16865.63 MD/7029.00 TVD									
16,865.64	90.00	270.78	7,029.00	-444.22	-9,394.05	9,404.55	0.00	0.00	0.00

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
Dotsero 6-05-01L LP 18- - plan hits target center - Point	0.00	0.00	7,029.00	-572.68	9.90	14,746,975.49	1,755,718.65	40.60404850	-104.58459926
Dotsero 6-05-01L PBHL - plan hits target center - Point	0.00	0.00	7,029.00	-444.22	-9,394.05	14,747,059.58	1,746,314.22	40.60439628	-104.61847873

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
3,000.00	3,000.00	0.00	0.00	KOP Begin 1°/100' build
4,613.26	4,592.03	-141.23	175.96	Begin 16.13° tangent
6,434.28	6,341.34	-457.96	570.56	Begin 10°/100' build/turn
7,460.81	7,029.00	-572.68	9.90	Begin 90.00° lateral
16,865.63	7,029.00	-444.22	-9,394.04	PBHL/TD 16865.63 MD/7029.00 TVD

Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Dotsero 6-05-01L
Company:	Confluence Resources	TVD Reference:	RKB=4995+24 @ 5019.00ft
Project:	Weld County, Colorado	MD Reference:	RKB=4995+24 @ 5019.00ft
Site:	Section 06-T07N-R64W	North Reference:	True
Well:	Dotsero 6-05-01L	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	plan1		

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

Site		Section 06-T07N-R64W			
Site Position:		Northing:	14,746,184.54 usft	Latitude:	40.60187654
From:	Map	Easting:	1,755,730.03 usft	Longitude:	-104.58457171
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.27 °

Well	Dotsero 6-05-01L, Surf loc: 1271 FNL 475 FEL Section 06-T07N-R64W					
Well Position	+N/-S	0.00 ft	Northing:	14,747,548.12 usft	Latitude:	40.60562101
	+E/-W	0.00 ft	Easting:	1,755,706.05 usft	Longitude:	-104.58463492
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,995.00 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	2/18/2018	8.00	66.98	52,364.80000000

Design	plan1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	267.29

Plan Survey Tool Program	Date	2/18/2018		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	16,865.64 plan1 (Original Hole)		

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,613.26	16.13	128.75	4,592.03	-141.23	175.96	1.00	1.00	0.00	128.75	
6,434.28	16.13	128.75	6,341.34	-457.96	570.56	0.00	0.00	0.00	0.00	
7,460.81	90.00	270.78	7,029.00	-572.68	9.90	10.00	7.20	13.84	140.91	Dotsero 6-05-01L LP
16,865.64	90.00	270.78	7,029.00	-444.22	-9,394.05	0.00	0.00	0.00	0.00	Dotsero 6-05-01L PBI

Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Dotsero 6-05-01L
Company:	Confluence Resources	TVD Reference:	RKB=4995+24 @ 5019.00ft
Project:	Weld County, Colorado	MD Reference:	RKB=4995+24 @ 5019.00ft
Site:	Section 06-T07N-R64W	North Reference:	True
Well:	Dotsero 6-05-01L	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	plan1		

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	14,747,548.12	1,755,706.05	40.60562101	-104.58463492
100.00	0.00	0.00	100.00	0.00	0.00	14,747,548.12	1,755,706.05	40.60562101	-104.58463492
200.00	0.00	0.00	200.00	0.00	0.00	14,747,548.12	1,755,706.05	40.60562101	-104.58463492
300.00	0.00	0.00	300.00	0.00	0.00	14,747,548.12	1,755,706.05	40.60562101	-104.58463492
400.00	0.00	0.00	400.00	0.00	0.00	14,747,548.12	1,755,706.05	40.60562101	-104.58463492
500.00	0.00	0.00	500.00	0.00	0.00	14,747,548.12	1,755,706.05	40.60562101	-104.58463492
600.00	0.00	0.00	600.00	0.00	0.00	14,747,548.12	1,755,706.05	40.60562101	-104.58463492
700.00	0.00	0.00	700.00	0.00	0.00	14,747,548.12	1,755,706.05	40.60562101	-104.58463492
800.00	0.00	0.00	800.00	0.00	0.00	14,747,548.12	1,755,706.05	40.60562101	-104.58463492
900.00	0.00	0.00	900.00	0.00	0.00	14,747,548.12	1,755,706.05	40.60562101	-104.58463492
1,000.00	0.00	0.00	1,000.00	0.00	0.00	14,747,548.12	1,755,706.05	40.60562101	-104.58463492
1,100.00	0.00	0.00	1,100.00	0.00	0.00	14,747,548.12	1,755,706.05	40.60562101	-104.58463492
1,200.00	0.00	0.00	1,200.00	0.00	0.00	14,747,548.12	1,755,706.05	40.60562101	-104.58463492
1,300.00	0.00	0.00	1,300.00	0.00	0.00	14,747,548.12	1,755,706.05	40.60562101	-104.58463492
1,400.00	0.00	0.00	1,400.00	0.00	0.00	14,747,548.12	1,755,706.05	40.60562101	-104.58463492
1,500.00	0.00	0.00	1,500.00	0.00	0.00	14,747,548.12	1,755,706.05	40.60562101	-104.58463492
1,600.00	0.00	0.00	1,600.00	0.00	0.00	14,747,548.12	1,755,706.05	40.60562101	-104.58463492
1,700.00	0.00	0.00	1,700.00	0.00	0.00	14,747,548.12	1,755,706.05	40.60562101	-104.58463492
1,800.00	0.00	0.00	1,800.00	0.00	0.00	14,747,548.12	1,755,706.05	40.60562101	-104.58463492
1,900.00	0.00	0.00	1,900.00	0.00	0.00	14,747,548.12	1,755,706.05	40.60562101	-104.58463492
2,000.00	0.00	0.00	2,000.00	0.00	0.00	14,747,548.12	1,755,706.05	40.60562101	-104.58463492
2,100.00	0.00	0.00	2,100.00	0.00	0.00	14,747,548.12	1,755,706.05	40.60562101	-104.58463492
2,200.00	0.00	0.00	2,200.00	0.00	0.00	14,747,548.12	1,755,706.05	40.60562101	-104.58463492
2,300.00	0.00	0.00	2,300.00	0.00	0.00	14,747,548.12	1,755,706.05	40.60562101	-104.58463492
2,400.00	0.00	0.00	2,400.00	0.00	0.00	14,747,548.12	1,755,706.05	40.60562101	-104.58463492
2,500.00	0.00	0.00	2,500.00	0.00	0.00	14,747,548.12	1,755,706.05	40.60562101	-104.58463492
2,600.00	0.00	0.00	2,600.00	0.00	0.00	14,747,548.12	1,755,706.05	40.60562101	-104.58463492
2,700.00	0.00	0.00	2,700.00	0.00	0.00	14,747,548.12	1,755,706.05	40.60562101	-104.58463492
2,800.00	0.00	0.00	2,800.00	0.00	0.00	14,747,548.12	1,755,706.05	40.60562101	-104.58463492
2,900.00	0.00	0.00	2,900.00	0.00	0.00	14,747,548.12	1,755,706.05	40.60562101	-104.58463492
3,000.00	0.00	0.00	3,000.00	0.00	0.00	14,747,548.12	1,755,706.05	40.60562101	-104.58463492
KOP Begin 1°/100' build									
3,100.00	1.00	128.75	3,099.99	-0.55	0.68	14,747,547.58	1,755,706.73	40.60561951	-104.58463247
3,200.00	2.00	128.75	3,199.96	-2.18	2.72	14,747,545.95	1,755,708.78	40.60561501	-104.58462511
3,300.00	3.00	128.75	3,299.86	-4.92	6.12	14,747,543.23	1,755,712.20	40.60560752	-104.58461286
3,400.00	4.00	128.75	3,399.68	-8.74	10.88	14,747,539.43	1,755,716.97	40.60559702	-104.58459570
3,500.00	5.00	128.75	3,499.37	-13.65	17.00	14,747,534.55	1,755,723.12	40.60558354	-104.58457366
3,600.00	6.00	128.75	3,598.90	-19.65	24.48	14,747,528.59	1,755,730.62	40.60556706	-104.58454673
3,700.00	7.00	128.75	3,698.26	-26.73	33.31	14,747,521.54	1,755,739.48	40.60554761	-104.58451493
3,800.00	8.00	128.75	3,797.40	-34.90	43.49	14,747,513.42	1,755,749.70	40.60552517	-104.58447825
3,900.00	9.00	128.75	3,896.30	-44.15	55.01	14,747,504.22	1,755,761.27	40.60549977	-104.58443672
4,000.00	10.00	128.75	3,994.93	-54.49	67.88	14,747,493.95	1,755,774.19	40.60547140	-104.58439035
4,100.00	11.00	128.75	4,093.26	-65.89	82.09	14,747,482.61	1,755,788.45	40.60544008	-104.58433915
4,200.00	12.00	128.75	4,191.25	-78.37	97.64	14,747,470.21	1,755,804.06	40.60540581	-104.58428314
4,300.00	13.00	128.75	4,288.87	-91.92	114.52	14,747,456.74	1,755,821.00	40.60536861	-104.58422233
4,400.00	14.00	128.75	4,386.11	-106.53	132.73	14,747,442.21	1,755,839.28	40.60532849	-104.58415674
4,500.00	15.00	128.75	4,482.92	-122.20	152.25	14,747,426.63	1,755,858.88	40.60528545	-104.58408639
4,600.00	16.00	128.75	4,579.29	-138.93	173.09	14,747,410.01	1,755,879.80	40.60523952	-104.58401131
4,613.26	16.13	128.75	4,592.03	-141.23	175.96	14,747,407.72	1,755,882.67	40.60523321	-104.58400100
Begin 16.13° tangent									
4,700.00	16.13	128.75	4,675.35	-156.32	194.75	14,747,392.72	1,755,901.54	40.60519179	-104.58393328
4,800.00	16.13	128.75	4,771.41	-173.71	216.42	14,747,375.43	1,755,923.29	40.60514403	-104.58385521
4,900.00	16.13	128.75	4,867.48	-191.10	238.09	14,747,358.14	1,755,945.04	40.60509627	-104.58377715
5,000.00	16.13	128.75	4,963.54	-208.49	259.76	14,747,340.85	1,755,966.79	40.60504851	-104.58369908

Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Dotsero 6-05-01L
Company:	Confluence Resources	TVD Reference:	RKB=4995+24 @ 5019.00ft
Project:	Weld County, Colorado	MD Reference:	RKB=4995+24 @ 5019.00ft
Site:	Section 06-T07N-R64W	North Reference:	True
Well:	Dotsero 6-05-01L	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	plan1		

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	16.13	128.75	5,059.60	-225.89	281.43	14,747,323.56	1,755,988.54	40.60500075	-104.58362101
5,200.00	16.13	128.75	5,155.66	-243.28	303.10	14,747,306.27	1,756,010.29	40.60495299	-104.58354294
5,300.00	16.13	128.75	5,251.72	-260.67	324.77	14,747,288.98	1,756,032.04	40.60490524	-104.58346487
5,400.00	16.13	128.75	5,347.79	-278.07	346.44	14,747,271.69	1,756,053.79	40.60485748	-104.58338681
5,500.00	16.13	128.75	5,443.85	-295.46	368.11	14,747,254.40	1,756,075.55	40.60480972	-104.58330874
5,600.00	16.13	128.75	5,539.91	-312.85	389.78	14,747,237.11	1,756,097.30	40.60476196	-104.58323067
5,700.00	16.13	128.75	5,635.97	-330.24	411.45	14,747,219.82	1,756,119.05	40.60471420	-104.58315260
5,800.00	16.13	128.75	5,732.04	-347.64	433.11	14,747,202.53	1,756,140.80	40.60466644	-104.58307454
5,900.00	16.13	128.75	5,828.10	-365.03	454.78	14,747,185.24	1,756,162.55	40.60461868	-104.58299647
6,000.00	16.13	128.75	5,924.16	-382.42	476.45	14,747,167.95	1,756,184.30	40.60457092	-104.58291840
6,100.00	16.13	128.75	6,020.22	-399.82	498.12	14,747,150.66	1,756,206.05	40.60452316	-104.58284034
6,200.00	16.13	128.75	6,116.28	-417.21	519.79	14,747,133.37	1,756,227.80	40.60447540	-104.58276227
6,300.00	16.13	128.75	6,212.35	-434.60	541.46	14,747,116.08	1,756,249.55	40.60442764	-104.58268420
6,400.00	16.13	128.75	6,308.41	-451.99	563.13	14,747,098.79	1,756,271.31	40.60437988	-104.58260614
6,434.28	16.13	128.75	6,341.34	-457.96	570.56	14,747,092.86	1,756,278.76	40.60436351	-104.58257937
Begin 10°/100' build/turn									
6,500.00	11.77	149.48	6,405.14	-469.46	581.09	14,747,081.41	1,756,289.35	40.60433193	-104.58254142
6,600.00	10.82	202.14	6,503.45	-486.98	582.74	14,747,063.90	1,756,291.08	40.60428383	-104.58253549
6,700.00	17.13	235.52	6,600.59	-504.05	567.02	14,747,046.75	1,756,275.44	40.60423695	-104.58259212
6,800.00	25.84	249.23	6,693.61	-520.16	534.42	14,747,030.49	1,756,242.91	40.60419272	-104.58270959
6,900.00	35.21	256.18	6,779.68	-534.81	485.92	14,747,015.61	1,756,194.48	40.60415248	-104.58288432
7,000.00	44.83	260.47	6,856.18	-547.57	423.00	14,747,002.55	1,756,131.62	40.60411745	-104.58311100
7,100.00	54.56	263.51	6,920.80	-558.04	347.56	14,746,991.73	1,756,056.24	40.60408871	-104.58338276
7,200.00	64.35	265.88	6,971.56	-565.90	261.91	14,746,983.46	1,755,970.63	40.60406712	-104.58369133
7,300.00	74.17	267.89	7,006.93	-570.92	168.65	14,746,978.00	1,755,877.39	40.60405333	-104.58402734
7,400.00	84.01	269.71	7,025.83	-572.95	70.60	14,746,975.51	1,755,779.35	40.60404778	-104.58438057
7,460.81	90.00	270.78	7,029.00	-572.68	9.90	14,746,975.49	1,755,718.65	40.60404850	-104.58459926
Begin 90.00° lateral									
7,500.00	90.00	270.78	7,029.00	-572.15	-29.28	14,746,975.84	1,755,679.47	40.60404997	-104.58474042
7,600.00	90.00	270.78	7,029.00	-570.78	-129.27	14,746,976.73	1,755,579.47	40.60405372	-104.58510065
7,700.00	90.00	270.78	7,029.00	-569.42	-229.27	14,746,977.63	1,755,479.47	40.60405747	-104.58546088
7,800.00	90.00	270.78	7,029.00	-568.05	-329.26	14,746,978.52	1,755,379.48	40.60406122	-104.58582112
7,900.00	90.00	270.78	7,029.00	-566.69	-429.25	14,746,979.42	1,755,279.48	40.60406496	-104.58618135
8,000.00	90.00	270.78	7,029.00	-565.32	-529.24	14,746,980.31	1,755,179.49	40.60406871	-104.58654158
8,100.00	90.00	270.78	7,029.00	-563.95	-629.23	14,746,981.20	1,755,079.49	40.60407245	-104.58690181
8,200.00	90.00	270.78	7,029.00	-562.59	-729.22	14,746,982.10	1,754,979.49	40.60407620	-104.58726205
8,300.00	90.00	270.78	7,029.00	-561.22	-829.21	14,746,982.99	1,754,879.50	40.60407994	-104.58762228
8,400.00	90.00	270.78	7,029.00	-559.86	-929.20	14,746,983.89	1,754,779.50	40.60408368	-104.58798251
8,500.00	90.00	270.78	7,029.00	-558.49	-1,029.19	14,746,984.78	1,754,679.51	40.60408742	-104.58834275
8,600.00	90.00	270.78	7,029.00	-557.12	-1,129.18	14,746,985.68	1,754,579.51	40.60409116	-104.58870298
8,700.00	90.00	270.78	7,029.00	-555.76	-1,229.17	14,746,986.57	1,754,479.52	40.60409489	-104.58906321
8,800.00	90.00	270.78	7,029.00	-554.39	-1,329.16	14,746,987.46	1,754,379.52	40.60409863	-104.58942345
8,900.00	90.00	270.78	7,029.00	-553.03	-1,429.15	14,746,988.36	1,754,279.52	40.60410237	-104.58978368
9,000.00	90.00	270.78	7,029.00	-551.66	-1,529.14	14,746,989.25	1,754,179.53	40.60410610	-104.59014391
9,100.00	90.00	270.78	7,029.00	-550.29	-1,629.13	14,746,990.15	1,754,079.53	40.60410983	-104.59050415
9,200.00	90.00	270.78	7,029.00	-548.93	-1,729.13	14,746,991.04	1,753,979.54	40.60411356	-104.59086438
9,300.00	90.00	270.78	7,029.00	-547.56	-1,829.12	14,746,991.93	1,753,879.54	40.60411729	-104.59122461
9,400.00	90.00	270.78	7,029.00	-546.20	-1,929.11	14,746,992.83	1,753,779.55	40.60412102	-104.59158485
9,500.00	90.00	270.78	7,029.00	-544.83	-2,029.10	14,746,993.72	1,753,679.55	40.60412475	-104.59194508
9,600.00	90.00	270.78	7,029.00	-543.46	-2,129.09	14,746,994.62	1,753,579.55	40.60412848	-104.59230532
9,700.00	90.00	270.78	7,029.00	-542.10	-2,229.08	14,746,995.51	1,753,479.56	40.60413221	-104.59266555
9,800.00	90.00	270.78	7,029.00	-540.73	-2,329.07	14,746,996.40	1,753,379.56	40.60413593	-104.59302578
9,900.00	90.00	270.78	7,029.00	-539.37	-2,429.06	14,746,997.30	1,753,279.57	40.60413965	-104.59338602
10,000.00	90.00	270.78	7,029.00	-538.00	-2,529.05	14,746,998.19	1,753,179.57	40.60414338	-104.59374625

Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Dotsero 6-05-01L
Company:	Confluence Resources	TVD Reference:	RKB=4995+24 @ 5019.00ft
Project:	Weld County, Colorado	MD Reference:	RKB=4995+24 @ 5019.00ft
Site:	Section 06-T07N-R64W	North Reference:	True
Well:	Dotsero 6-05-01L	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	plan1		

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	270.78	7,029.00	-536.63	-2,629.04	14,746,999.09	1,753,079.57	40.60414710	-104.59410648
10,200.00	90.00	270.78	7,029.00	-535.27	-2,729.03	14,746,999.98	1,752,979.58	40.60415082	-104.59446672
10,300.00	90.00	270.78	7,029.00	-533.90	-2,829.02	14,747,000.88	1,752,879.58	40.60415454	-104.59482695
10,400.00	90.00	270.78	7,029.00	-532.54	-2,929.01	14,747,001.77	1,752,779.59	40.60415826	-104.59518719
10,500.00	90.00	270.78	7,029.00	-531.17	-3,029.00	14,747,002.66	1,752,679.59	40.60416197	-104.59554742
10,600.00	90.00	270.78	7,029.00	-529.80	-3,128.99	14,747,003.56	1,752,579.60	40.60416569	-104.59590765
10,700.00	90.00	270.78	7,029.00	-528.44	-3,228.99	14,747,004.45	1,752,479.60	40.60416940	-104.59626789
10,800.00	90.00	270.78	7,029.00	-527.07	-3,328.98	14,747,005.35	1,752,379.60	40.60417312	-104.59662812
10,900.00	90.00	270.78	7,029.00	-525.71	-3,428.97	14,747,006.24	1,752,279.61	40.60417683	-104.59698836
11,000.00	90.00	270.78	7,029.00	-524.34	-3,528.96	14,747,007.13	1,752,179.61	40.60418054	-104.59734859
11,100.00	90.00	270.78	7,029.00	-522.97	-3,628.95	14,747,008.03	1,752,079.62	40.60418425	-104.59770883
11,200.00	90.00	270.78	7,029.00	-521.61	-3,728.94	14,747,008.92	1,751,979.62	40.60418796	-104.59806906
11,300.00	90.00	270.78	7,029.00	-520.24	-3,828.93	14,747,009.82	1,751,879.62	40.60419167	-104.59842930
11,400.00	90.00	270.78	7,029.00	-518.88	-3,928.92	14,747,010.71	1,751,779.63	40.60419538	-104.59878953
11,500.00	90.00	270.78	7,029.00	-517.51	-4,028.91	14,747,011.60	1,751,679.63	40.60419908	-104.59914976
11,600.00	90.00	270.78	7,029.00	-516.14	-4,128.90	14,747,012.50	1,751,579.64	40.60420279	-104.59951000
11,700.00	90.00	270.78	7,029.00	-514.78	-4,228.89	14,747,013.39	1,751,479.64	40.60420649	-104.59987023
11,800.00	90.00	270.78	7,029.00	-513.41	-4,328.88	14,747,014.29	1,751,379.65	40.60421019	-104.60023047
11,900.00	90.00	270.78	7,029.00	-512.05	-4,428.87	14,747,015.18	1,751,279.65	40.60421390	-104.60059070
12,000.00	90.00	270.78	7,029.00	-510.68	-4,528.86	14,747,016.08	1,751,179.65	40.60421760	-104.60095094
12,100.00	90.00	270.78	7,029.00	-509.32	-4,628.85	14,747,016.97	1,751,079.66	40.60422130	-104.60131117
12,200.00	90.00	270.78	7,029.00	-507.95	-4,728.85	14,747,017.86	1,750,979.66	40.60422499	-104.60167141
12,300.00	90.00	270.78	7,029.00	-506.58	-4,828.84	14,747,018.76	1,750,879.67	40.60422869	-104.60203164
12,400.00	90.00	270.78	7,029.00	-505.22	-4,928.83	14,747,019.65	1,750,779.67	40.60423239	-104.60239188
12,500.00	90.00	270.78	7,029.00	-503.85	-5,028.82	14,747,020.55	1,750,679.68	40.60423608	-104.60275211
12,600.00	90.00	270.78	7,029.00	-502.49	-5,128.81	14,747,021.44	1,750,579.68	40.60423977	-104.60311235
12,700.00	90.00	270.78	7,029.00	-501.12	-5,228.80	14,747,022.33	1,750,479.68	40.60424347	-104.60347258
12,800.00	90.00	270.78	7,029.00	-499.75	-5,328.79	14,747,023.23	1,750,379.69	40.60424716	-104.60383282
12,900.00	90.00	270.78	7,029.00	-498.39	-5,428.78	14,747,024.12	1,750,279.69	40.60425085	-104.60419305
13,000.00	90.00	270.78	7,029.00	-497.02	-5,528.77	14,747,025.02	1,750,179.70	40.60425454	-104.60455329
13,100.00	90.00	270.78	7,029.00	-495.66	-5,628.76	14,747,025.91	1,750,079.70	40.60425822	-104.60491353
13,200.00	90.00	270.78	7,029.00	-494.29	-5,728.75	14,747,026.80	1,749,979.70	40.60426191	-104.60527376
13,300.00	90.00	270.78	7,029.00	-492.92	-5,828.74	14,747,027.70	1,749,879.71	40.60426560	-104.60563400
13,400.00	90.00	270.78	7,029.00	-491.56	-5,928.73	14,747,028.59	1,749,779.71	40.60426928	-104.60599423
13,500.00	90.00	270.78	7,029.00	-490.19	-6,028.72	14,747,029.49	1,749,679.72	40.60427297	-104.60635447
13,600.00	90.00	270.78	7,029.00	-488.83	-6,128.72	14,747,030.38	1,749,579.72	40.60427665	-104.60671470
13,700.00	90.00	270.78	7,029.00	-487.46	-6,228.71	14,747,031.28	1,749,479.73	40.60428033	-104.60707494
13,800.00	90.00	270.78	7,029.00	-486.09	-6,328.70	14,747,032.17	1,749,379.73	40.60428401	-104.60743517
13,900.00	90.00	270.78	7,029.00	-484.73	-6,428.69	14,747,033.06	1,749,279.73	40.60428769	-104.60779541
14,000.00	90.00	270.78	7,029.00	-483.36	-6,528.68	14,747,033.96	1,749,179.74	40.60429137	-104.60815565
14,100.00	90.00	270.78	7,029.00	-482.00	-6,628.67	14,747,034.85	1,749,079.74	40.60429504	-104.60851588
14,200.00	90.00	270.78	7,029.00	-480.63	-6,728.66	14,747,035.75	1,748,979.75	40.60429872	-104.60887612
14,300.00	90.00	270.78	7,029.00	-479.26	-6,828.65	14,747,036.64	1,748,879.75	40.60430239	-104.60923635
14,400.00	90.00	270.78	7,029.00	-477.90	-6,928.64	14,747,037.53	1,748,779.75	40.60430607	-104.60959659
14,500.00	90.00	270.78	7,029.00	-476.53	-7,028.63	14,747,038.43	1,748,679.76	40.60430974	-104.60995683
14,600.00	90.00	270.78	7,029.00	-475.17	-7,128.62	14,747,039.32	1,748,579.76	40.60431341	-104.61031706
14,700.00	90.00	270.78	7,029.00	-473.80	-7,228.61	14,747,040.22	1,748,479.77	40.60431708	-104.61067730
14,800.00	90.00	270.78	7,029.00	-472.43	-7,328.60	14,747,041.11	1,748,379.77	40.60432075	-104.61103753
14,900.00	90.00	270.78	7,029.00	-471.07	-7,428.59	14,747,042.00	1,748,279.78	40.60432442	-104.61139777
15,000.00	90.00	270.78	7,029.00	-469.70	-7,528.58	14,747,042.90	1,748,179.78	40.60432808	-104.61175801
15,100.00	90.00	270.78	7,029.00	-468.34	-7,628.58	14,747,043.79	1,748,079.78	40.60433175	-104.61211824
15,200.00	90.00	270.78	7,029.00	-466.97	-7,728.57	14,747,044.69	1,747,979.79	40.60433541	-104.61247848
15,300.00	90.00	270.78	7,029.00	-465.60	-7,828.56	14,747,045.58	1,747,879.79	40.60433907	-104.61283872
15,400.00	90.00	270.78	7,029.00	-464.24	-7,928.55	14,747,046.48	1,747,779.80	40.60434274	-104.61319895
15,500.00	90.00	270.78	7,029.00	-462.87	-8,028.54	14,747,047.37	1,747,679.80	40.60434640	-104.61355919

Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Dotsero 6-05-01L
Company:	Confluence Resources	TVD Reference:	RKB=4995+24 @ 5019.00ft
Project:	Weld County, Colorado	MD Reference:	RKB=4995+24 @ 5019.00ft
Site:	Section 06-T07N-R64W	North Reference:	True
Well:	Dotsero 6-05-01L	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	plan1		

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	270.78	7,029.00	-461.51	-8,128.53	14,747,048.26	1,747,579.81	40.60435006	-104.61391943
15,700.00	90.00	270.78	7,029.00	-460.14	-8,228.52	14,747,049.16	1,747,479.81	40.60435372	-104.61427966
15,800.00	90.00	270.78	7,029.00	-458.78	-8,328.51	14,747,050.05	1,747,379.81	40.60435737	-104.61463990
15,900.00	90.00	270.78	7,029.00	-457.41	-8,428.50	14,747,050.95	1,747,279.82	40.60436103	-104.61500014
16,000.00	90.00	270.78	7,029.00	-456.04	-8,528.49	14,747,051.84	1,747,179.82	40.60436469	-104.61536037
16,100.00	90.00	270.78	7,029.00	-454.68	-8,628.48	14,747,052.73	1,747,079.83	40.60436834	-104.61572061
16,200.00	90.00	270.78	7,029.00	-453.31	-8,728.47	14,747,053.63	1,746,979.83	40.60437199	-104.61608085
16,300.00	90.00	270.78	7,029.00	-451.95	-8,828.46	14,747,054.52	1,746,879.83	40.60437565	-104.61644108
16,400.00	90.00	270.78	7,029.00	-450.58	-8,928.45	14,747,055.42	1,746,779.84	40.60437930	-104.61680132
16,500.00	90.00	270.78	7,029.00	-449.21	-9,028.44	14,747,056.31	1,746,679.84	40.60438295	-104.61716156
16,600.00	90.00	270.78	7,029.00	-447.85	-9,128.44	14,747,057.20	1,746,579.85	40.60438659	-104.61752180
16,700.00	90.00	270.78	7,029.00	-446.48	-9,228.43	14,747,058.10	1,746,479.85	40.60439024	-104.61788203
16,800.00	90.00	270.78	7,029.00	-445.12	-9,328.42	14,747,058.99	1,746,379.86	40.60439389	-104.61824227
16,865.63	90.00	270.78	7,029.00	-444.22	-9,394.04	14,747,059.58	1,746,314.23	40.60439628	-104.61847869
PBHL/TD 16865.63 MD/7029.00 TVD									
16,865.64	90.00	270.78	7,029.00	-444.22	-9,394.05	14,747,059.58	1,746,314.22	40.60439628	-104.61847873

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
Dotsero 6-05-01L LP 18- - plan hits target center - Point	0.00	0.00	7,029.00	-572.68	9.90	14,746,975.49	1,755,718.65	40.60404850	-104.58459926
Dotsero 6-05-01L PBHL - plan hits target center - Point	0.00	0.00	7,029.00	-444.22	-9,394.05	14,747,059.58	1,746,314.22	40.60439628	-104.61847873

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
3,000.00	3,000.00	0.00	0.00	KOP Begin 1°/100' build	
4,613.26	4,592.03	-141.23	175.96	Begin 16.13° tangent	
6,434.28	6,341.34	-457.96	570.56	Begin 10°/100' build/turn	
7,460.81	7,029.00	-572.68	9.90	Begin 90.00° lateral	
16,865.63	7,029.00	-444.22	-9,394.04	PBHL/TD 16865.63 MD/7029.00 TVD	