

Weld County, Colorado
Section 06-T07N-R64W
Dotsero 6-03-03L
plan1

Section Details

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSec	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	4072.03	10.72	87.57	4065.79	4.25	99.91	1.00	-99.82	Begin 10.72° tangent
4	6587.82	10.72	87.57	6537.67	24.12	567.46	0.00	-566.94	Begin 10°/100' build/turn
5	7594.85	90.00	270.79	7217.00	39.09	4.62	10.00	-3.92	Begin 90.00° lateral
6	17005.73	90.00	270.79	7217.00	168.43	-9405.36	0.00	9406.87	PBHL/TD 17005.73 MD/7217.00 TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Dotsero 6-03-03L LP 1157 FNL 470 FEL	7217.00	39.09	4.62	14747662.44	1755708.76	40.60593488	-104.58462322
Dotsero 6-03-03L PBHL 1157 FNL 470 FWL	7217.00	168.43	-9405.36	14747747.38	1746298.29	40.60628507	-104.61852538

Dotsero 6-03-03L			
Surf loc: 1196 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
14747623.33	1755704.32	40.60582755	-104.58463988

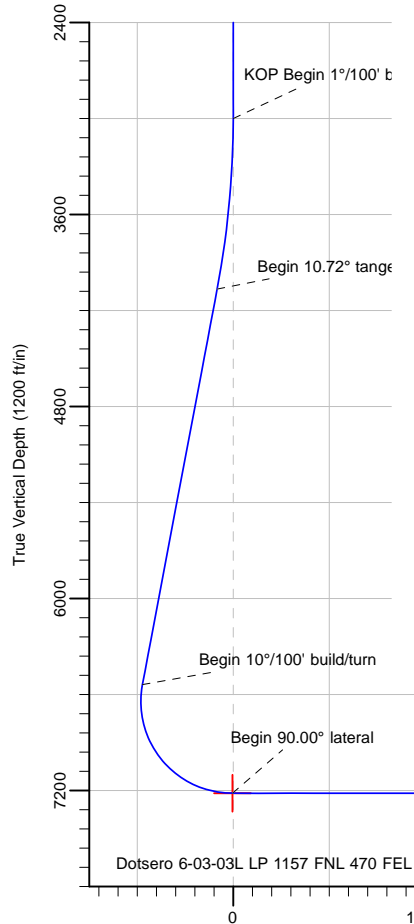
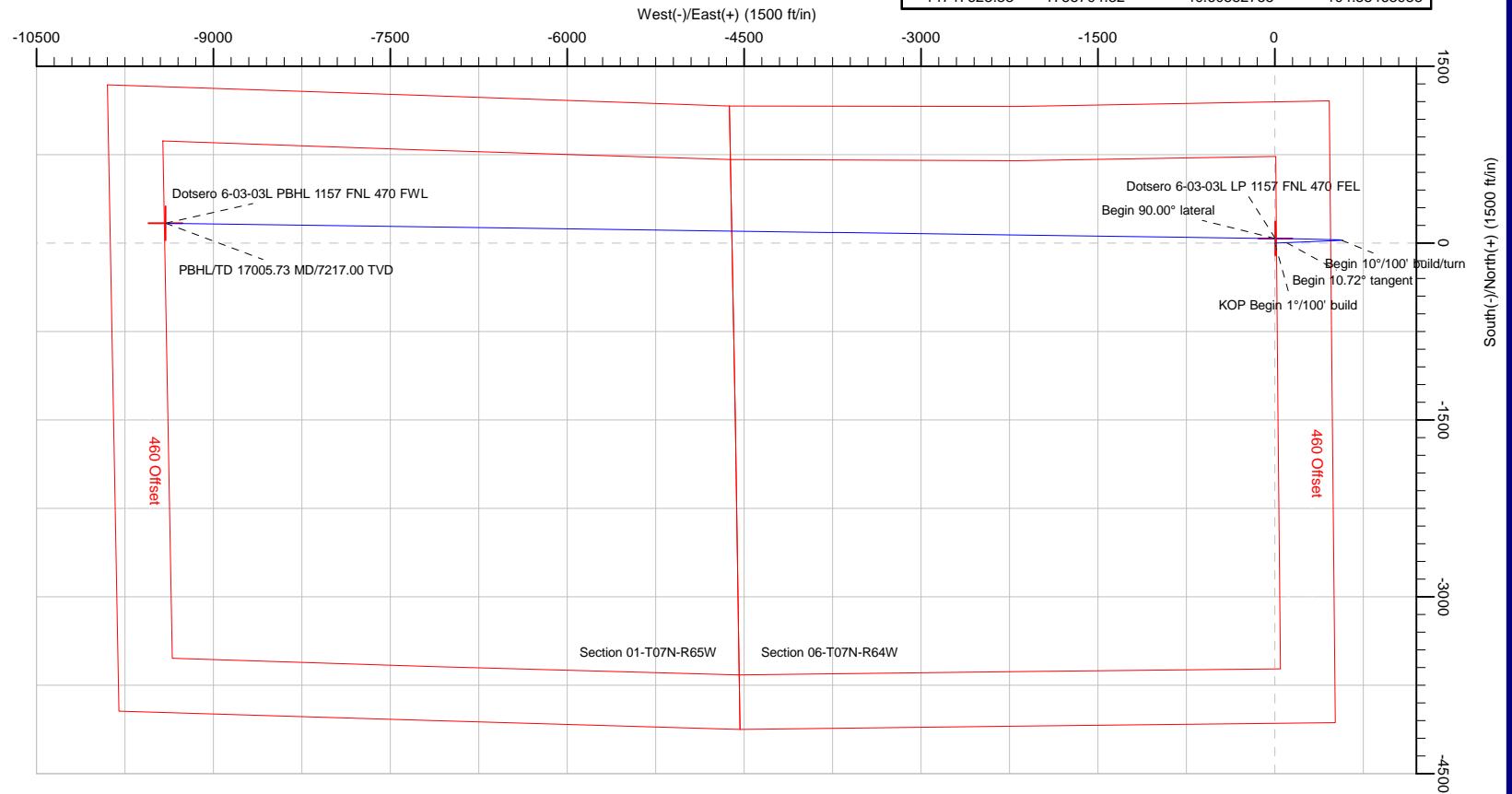


Azimuths to True North
Magnetic North: 8.00°

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



Vertical Section at 271.03° (1200 ft/in)

PBHL/TD 17005.73 MD/7217.00 TVD
Dotsero 6-03-03L PBHL 1157 FNL 470 FWL

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 6-03-03L
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 6-03-03L	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 6-03-03L, Surf loc: 1196 FNL 475 FEL Section 06-T07N-R64W					
Well Position	+N/-S	1,438.90 ft	Northing:	14,747,623.33 usft	Latitude:	40.60582755
	+E/-W	-18.92 ft	Easting:	1,755,704.32 usft	Longitude:	-104.58463987
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	271.03

Plan Survey Tool Program	Date	2/18/2018		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	17,005.73	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	
4,072.03	10.72	87.57	4,065.79	4.25	99.91	1.00	1.00	0.00	87.57	
6,587.82	10.72	87.57	6,537.67	24.12	567.46	0.00	0.00	0.00	0.00	
7,594.85	90.00	270.79	7,217.00	39.09	4.62	10.00	7.87	-17.55	-176.72	Dotsero 6-03-03L LP
17,005.73	90.00	270.79	7,217.00	168.43	-9,405.36	0.00	0.00	0.00	0.00	Dotsero 6-03-03L PBI

Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Dotsero 6-03-03L
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 6-03-03L	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	87.57	3,099.99	0.04	0.87	-0.87	1.00	1.00	0.00
3,200.00	2.00	87.57	3,199.96	0.15	3.49	-3.48	1.00	1.00	0.00
3,300.00	3.00	87.57	3,299.86	0.33	7.85	-7.84	1.00	1.00	0.00
3,400.00	4.00	87.57	3,399.68	0.59	13.94	-13.93	1.00	1.00	0.00
3,500.00	5.00	87.57	3,499.37	0.93	21.78	-21.76	1.00	1.00	0.00
3,600.00	6.00	87.57	3,598.90	1.33	31.36	-31.33	1.00	1.00	0.00
3,700.00	7.00	87.57	3,698.26	1.81	42.67	-42.63	1.00	1.00	0.00
3,800.00	8.00	87.57	3,797.40	2.37	55.71	-55.66	1.00	1.00	0.00
3,900.00	9.00	87.57	3,896.30	3.00	70.48	-70.41	1.00	1.00	0.00
4,000.00	10.00	87.57	3,994.93	3.70	86.97	-86.89	1.00	1.00	0.00
4,072.03	10.72	87.57	4,065.79	4.25	99.91	-99.82	1.00	1.00	0.00
Begin 10.72° tangent									
4,100.00	10.72	87.57	4,093.27	4.47	105.11	-105.01	0.00	0.00	0.00
4,200.00	10.72	87.57	4,191.52	5.26	123.69	-123.58	0.00	0.00	0.00
4,300.00	10.72	87.57	4,289.78	6.05	142.28	-142.14	0.00	0.00	0.00
4,400.00	10.72	87.57	4,388.03	6.84	160.86	-160.71	0.00	0.00	0.00
4,500.00	10.72	87.57	4,486.29	7.63	179.45	-179.28	0.00	0.00	0.00
4,600.00	10.72	87.57	4,584.54	8.42	198.03	-197.85	0.00	0.00	0.00
4,700.00	10.72	87.57	4,682.80	9.21	216.61	-216.42	0.00	0.00	0.00
4,800.00	10.72	87.57	4,781.05	10.00	235.20	-234.98	0.00	0.00	0.00
4,900.00	10.72	87.57	4,879.31	10.79	253.78	-253.55	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 6-03-03L	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	10.72	87.57	4,977.56	11.58	272.37	-272.12	0.00	0.00	0.00
5,100.00	10.72	87.57	5,075.81	12.37	290.95	-290.69	0.00	0.00	0.00
5,200.00	10.72	87.57	5,174.07	13.16	309.54	-309.25	0.00	0.00	0.00
5,300.00	10.72	87.57	5,272.32	13.95	328.12	-327.82	0.00	0.00	0.00
5,400.00	10.72	87.57	5,370.58	14.74	346.71	-346.39	0.00	0.00	0.00
5,500.00	10.72	87.57	5,468.83	15.53	365.29	-364.96	0.00	0.00	0.00
5,600.00	10.72	87.57	5,567.09	16.32	383.88	-383.52	0.00	0.00	0.00
5,700.00	10.72	87.57	5,665.34	17.11	402.46	-402.09	0.00	0.00	0.00
5,800.00	10.72	87.57	5,763.60	17.90	421.05	-420.66	0.00	0.00	0.00
5,900.00	10.72	87.57	5,861.85	18.69	439.63	-439.23	0.00	0.00	0.00
6,000.00	10.72	87.57	5,960.11	19.48	458.22	-457.79	0.00	0.00	0.00
6,100.00	10.72	87.57	6,058.36	20.27	476.80	-476.36	0.00	0.00	0.00
6,200.00	10.72	87.57	6,156.62	21.06	495.39	-494.93	0.00	0.00	0.00
6,300.00	10.72	87.57	6,254.87	21.85	513.97	-513.50	0.00	0.00	0.00
6,400.00	10.72	87.57	6,353.13	22.64	532.56	-532.06	0.00	0.00	0.00
6,500.00	10.72	87.57	6,451.38	23.43	551.14	-550.63	0.00	0.00	0.00
6,587.82	10.72	87.57	6,537.67	24.12	567.46	-566.94	0.00	0.00	0.00
Begin 10°/100' build/turn									
6,600.00	9.50	87.14	6,549.66	24.22	569.60	-569.07	10.00	-9.98	-3.46
6,700.00	0.80	320.62	6,649.22	25.17	577.42	-576.88	10.00	-8.71	-126.52
6,800.00	10.53	274.07	6,748.63	26.36	567.84	-567.28	10.00	9.73	-46.55
6,900.00	20.52	272.42	6,844.85	27.75	541.14	-540.56	10.00	9.99	-1.65
7,000.00	30.52	271.82	6,934.98	29.30	498.14	-497.54	10.00	10.00	-0.59
7,100.00	40.52	271.50	7,016.27	30.97	440.14	-439.52	10.00	10.00	-0.32
7,200.00	50.52	271.29	7,086.25	32.69	368.90	-368.26	10.00	10.00	-0.21
7,300.00	60.52	271.13	7,142.80	34.42	286.60	-285.94	10.00	10.00	-0.16
7,400.00	70.52	271.00	7,184.19	36.11	195.72	-195.04	10.00	10.00	-0.13
7,500.00	80.52	270.89	7,209.17	37.71	99.04	-98.35	10.00	10.00	-0.11
7,594.85	90.00	270.79	7,217.00	39.09	4.62	-3.92	10.00	10.00	-0.11
Begin 90.00° lateral									
7,600.00	90.00	270.79	7,217.00	39.16	-0.52	1.22	0.00	0.00	0.00
7,700.00	90.00	270.79	7,217.00	40.53	-100.51	101.22	0.00	0.00	0.00
7,800.00	90.00	270.79	7,217.00	41.91	-200.50	201.22	0.00	0.00	0.00
7,900.00	90.00	270.79	7,217.00	43.28	-300.49	301.22	0.00	0.00	0.00
8,000.00	90.00	270.79	7,217.00	44.66	-400.48	401.22	0.00	0.00	0.00
8,100.00	90.00	270.79	7,217.00	46.03	-500.47	501.22	0.00	0.00	0.00
8,200.00	90.00	270.79	7,217.00	47.41	-600.46	601.22	0.00	0.00	0.00
8,300.00	90.00	270.79	7,217.00	48.78	-700.45	701.22	0.00	0.00	0.00
8,400.00	90.00	270.79	7,217.00	50.15	-800.44	801.21	0.00	0.00	0.00
8,500.00	90.00	270.79	7,217.00	51.53	-900.44	901.21	0.00	0.00	0.00
8,600.00	90.00	270.79	7,217.00	52.90	-1,000.43	1,001.21	0.00	0.00	0.00
8,700.00	90.00	270.79	7,217.00	54.28	-1,100.42	1,101.21	0.00	0.00	0.00
8,800.00	90.00	270.79	7,217.00	55.65	-1,200.41	1,201.21	0.00	0.00	0.00
8,900.00	90.00	270.79	7,217.00	57.03	-1,300.40	1,301.21	0.00	0.00	0.00
9,000.00	90.00	270.79	7,217.00	58.40	-1,400.39	1,401.21	0.00	0.00	0.00
9,100.00	90.00	270.79	7,217.00	59.78	-1,500.38	1,501.21	0.00	0.00	0.00
9,200.00	90.00	270.79	7,217.00	61.15	-1,600.37	1,601.21	0.00	0.00	0.00
9,300.00	90.00	270.79	7,217.00	62.52	-1,700.36	1,701.21	0.00	0.00	0.00
9,400.00	90.00	270.79	7,217.00	63.90	-1,800.35	1,801.21	0.00	0.00	0.00
9,500.00	90.00	270.79	7,217.00	65.27	-1,900.34	1,901.21	0.00	0.00	0.00
9,600.00	90.00	270.79	7,217.00	66.65	-2,000.33	2,001.20	0.00	0.00	0.00
9,700.00	90.00	270.79	7,217.00	68.02	-2,100.32	2,101.20	0.00	0.00	0.00
9,800.00	90.00	270.79	7,217.00	69.40	-2,200.31	2,201.20	0.00	0.00	0.00
9,900.00	90.00	270.79	7,217.00	70.77	-2,300.30	2,301.20	0.00	0.00	0.00

Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Dotsero 6-03-03L
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 6-03-03L	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	270.79	7,217.00	72.15	-2,400.29	2,401.20	0.00	0.00	0.00
10,100.00	90.00	270.79	7,217.00	73.52	-2,500.28	2,501.20	0.00	0.00	0.00
10,200.00	90.00	270.79	7,217.00	74.89	-2,600.27	2,601.20	0.00	0.00	0.00
10,300.00	90.00	270.79	7,217.00	76.27	-2,700.27	2,701.20	0.00	0.00	0.00
10,400.00	90.00	270.79	7,217.00	77.64	-2,800.26	2,801.20	0.00	0.00	0.00
10,500.00	90.00	270.79	7,217.00	79.02	-2,900.25	2,901.20	0.00	0.00	0.00
10,600.00	90.00	270.79	7,217.00	80.39	-3,000.24	3,001.20	0.00	0.00	0.00
10,700.00	90.00	270.79	7,217.00	81.77	-3,100.23	3,101.19	0.00	0.00	0.00
10,800.00	90.00	270.79	7,217.00	83.14	-3,200.22	3,201.19	0.00	0.00	0.00
10,900.00	90.00	270.79	7,217.00	84.51	-3,300.21	3,301.19	0.00	0.00	0.00
11,000.00	90.00	270.79	7,217.00	85.89	-3,400.20	3,401.19	0.00	0.00	0.00
11,100.00	90.00	270.79	7,217.00	87.26	-3,500.19	3,501.19	0.00	0.00	0.00
11,200.00	90.00	270.79	7,217.00	88.64	-3,600.18	3,601.19	0.00	0.00	0.00
11,300.00	90.00	270.79	7,217.00	90.01	-3,700.17	3,701.19	0.00	0.00	0.00
11,400.00	90.00	270.79	7,217.00	91.39	-3,800.16	3,801.19	0.00	0.00	0.00
11,500.00	90.00	270.79	7,217.00	92.76	-3,900.15	3,901.19	0.00	0.00	0.00
11,600.00	90.00	270.79	7,217.00	94.14	-4,000.14	4,001.19	0.00	0.00	0.00
11,700.00	90.00	270.79	7,217.00	95.51	-4,100.13	4,101.19	0.00	0.00	0.00
11,800.00	90.00	270.79	7,217.00	96.88	-4,200.12	4,201.19	0.00	0.00	0.00
11,900.00	90.00	270.79	7,217.00	98.26	-4,300.11	4,301.18	0.00	0.00	0.00
12,000.00	90.00	270.79	7,217.00	99.63	-4,400.10	4,401.18	0.00	0.00	0.00
12,100.00	90.00	270.79	7,217.00	101.01	-4,500.10	4,501.18	0.00	0.00	0.00
12,200.00	90.00	270.79	7,217.00	102.38	-4,600.09	4,601.18	0.00	0.00	0.00
12,300.00	90.00	270.79	7,217.00	103.76	-4,700.08	4,701.18	0.00	0.00	0.00
12,400.00	90.00	270.79	7,217.00	105.13	-4,800.07	4,801.18	0.00	0.00	0.00
12,500.00	90.00	270.79	7,217.00	106.51	-4,900.06	4,901.18	0.00	0.00	0.00
12,600.00	90.00	270.79	7,217.00	107.88	-5,000.05	5,001.18	0.00	0.00	0.00
12,700.00	90.00	270.79	7,217.00	109.25	-5,100.04	5,101.18	0.00	0.00	0.00
12,800.00	90.00	270.79	7,217.00	110.63	-5,200.03	5,201.18	0.00	0.00	0.00
12,900.00	90.00	270.79	7,217.00	112.00	-5,300.02	5,301.18	0.00	0.00	0.00
13,000.00	90.00	270.79	7,217.00	113.38	-5,400.01	5,401.17	0.00	0.00	0.00
13,100.00	90.00	270.79	7,217.00	114.75	-5,500.00	5,501.17	0.00	0.00	0.00
13,200.00	90.00	270.79	7,217.00	116.13	-5,599.99	5,601.17	0.00	0.00	0.00
13,300.00	90.00	270.79	7,217.00	117.50	-5,699.98	5,701.17	0.00	0.00	0.00
13,400.00	90.00	270.79	7,217.00	118.87	-5,799.97	5,801.17	0.00	0.00	0.00
13,500.00	90.00	270.79	7,217.00	120.25	-5,899.96	5,901.17	0.00	0.00	0.00
13,600.00	90.00	270.79	7,217.00	121.62	-5,999.95	6,001.17	0.00	0.00	0.00
13,700.00	90.00	270.79	7,217.00	123.00	-6,099.94	6,101.17	0.00	0.00	0.00
13,800.00	90.00	270.79	7,217.00	124.37	-6,199.93	6,201.17	0.00	0.00	0.00
13,900.00	90.00	270.79	7,217.00	125.75	-6,299.93	6,301.17	0.00	0.00	0.00
14,000.00	90.00	270.79	7,217.00	127.12	-6,399.92	6,401.17	0.00	0.00	0.00
14,100.00	90.00	270.79	7,217.00	128.50	-6,499.91	6,501.17	0.00	0.00	0.00
14,200.00	90.00	270.79	7,217.00	129.87	-6,599.90	6,601.16	0.00	0.00	0.00
14,300.00	90.00	270.79	7,217.00	131.24	-6,699.89	6,701.16	0.00	0.00	0.00
14,400.00	90.00	270.79	7,217.00	132.62	-6,799.88	6,801.16	0.00	0.00	0.00
14,500.00	90.00	270.79	7,217.00	133.99	-6,899.87	6,901.16	0.00	0.00	0.00
14,600.00	90.00	270.79	7,217.00	135.37	-6,999.86	7,001.16	0.00	0.00	0.00
14,700.00	90.00	270.79	7,217.00	136.74	-7,099.85	7,101.16	0.00	0.00	0.00
14,800.00	90.00	270.79	7,217.00	138.12	-7,199.84	7,201.16	0.00	0.00	0.00
14,900.00	90.00	270.79	7,217.00	139.49	-7,299.83	7,301.16	0.00	0.00	0.00
15,000.00	90.00	270.79	7,217.00	140.87	-7,399.82	7,401.16	0.00	0.00	0.00
15,100.00	90.00	270.79	7,217.00	142.24	-7,499.81	7,501.16	0.00	0.00	0.00
15,200.00	90.00	270.79	7,217.00	143.61	-7,599.80	7,601.16	0.00	0.00	0.00
15,300.00	90.00	270.79	7,217.00	144.99	-7,699.79	7,701.15	0.00	0.00	0.00

Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Dotsero 6-03-03L
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 6-03-03L	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	270.79	7,217.00	146.36	-7,799.78	7,801.15	0.00	0.00	0.00	
15,500.00	90.00	270.79	7,217.00	147.74	-7,899.77	7,901.15	0.00	0.00	0.00	
15,600.00	90.00	270.79	7,217.00	149.11	-7,999.76	8,001.15	0.00	0.00	0.00	
15,700.00	90.00	270.79	7,217.00	150.49	-8,099.76	8,101.15	0.00	0.00	0.00	
15,800.00	90.00	270.79	7,217.00	151.86	-8,199.75	8,201.15	0.00	0.00	0.00	
15,900.00	90.00	270.79	7,217.00	153.23	-8,299.74	8,301.15	0.00	0.00	0.00	
16,000.00	90.00	270.79	7,217.00	154.61	-8,399.73	8,401.15	0.00	0.00	0.00	
16,100.00	90.00	270.79	7,217.00	155.98	-8,499.72	8,501.15	0.00	0.00	0.00	
16,200.00	90.00	270.79	7,217.00	157.36	-8,599.71	8,601.15	0.00	0.00	0.00	
16,300.00	90.00	270.79	7,217.00	158.73	-8,699.70	8,701.15	0.00	0.00	0.00	
16,400.00	90.00	270.79	7,217.00	160.11	-8,799.69	8,801.15	0.00	0.00	0.00	
16,500.00	90.00	270.79	7,217.00	161.48	-8,899.68	8,901.14	0.00	0.00	0.00	
16,600.00	90.00	270.79	7,217.00	162.86	-8,999.67	9,001.14	0.00	0.00	0.00	
16,700.00	90.00	270.79	7,217.00	164.23	-9,099.66	9,101.14	0.00	0.00	0.00	
16,800.00	90.00	270.79	7,217.00	165.60	-9,199.65	9,201.14	0.00	0.00	0.00	
16,900.00	90.00	270.79	7,217.00	166.98	-9,299.64	9,301.14	0.00	0.00	0.00	
17,000.00	90.00	270.79	7,217.00	168.35	-9,399.63	9,401.14	0.00	0.00	0.00	
17,005.73	90.00	270.79	7,217.00	168.43	-9,405.36	9,406.87	0.00	0.00	0.00	
PBHL/TD 17005.73 MD/7217.00 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									
Dotsero 6-03-03L LP 11!	0.00	0.00	7,217.00	39.09	4.62	14,747,662.44	1,755,708.76	40.60593488	-104.58462321
- plan hits target center									
- Point									
Dotsero 6-03-03L PBHL	0.00	0.00	7,217.00	168.43	-9,405.36	14,747,747.38	1,746,298.29	40.60628506	-104.61852538
- plan hits target center									
- Point									

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
4,072.03	4,065.79	4.25	99.91	Begin 10.72° tangent
6,587.82	6,537.67	24.12	567.46	Begin 10°/100' build/turn
7,594.85	7,217.00	39.09	4.62	Begin 90.00° lateral
17,005.73	7,217.00	168.43	-9,405.36	PBHL/TD 17005.73 MD/7217.00 TVD

Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Dotsero 6-03-03L
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 6-03-03L	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 6-03-03L, Surf loc: 1196 FNL 475 FEL Section 06-T07N-R64W					
Well Position	+N/-S	0.00 ft	Northing:	14,747,623.33 usft	Latitude:	40.60582755
	+E/-W	0.00 ft	Easting:	1,755,704.32 usft	Longitude:	-104.58463987
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	271.03

Plan Survey Tool Program	Date	2/18/2018		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	17,005.73 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	
4,072.03	10.72	87.57	4,065.79	4.25	99.91	1.00	1.00	0.00	87.57	
6,587.82	10.72	87.57	6,537.67	24.12	567.46	0.00	0.00	0.00	0.00	
7,594.85	90.00	270.79	7,217.00	39.09	4.62	10.00	7.87	-17.55	-176.72	Dotsero 6-03-03L LP
17,005.73	90.00	270.79	7,217.00	168.43	-9,405.36	0.00	0.00	0.00	0.00	Dotsero 6-03-03L PBI

Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Dotsero 6-03-03L
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 6-03-03L	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	14,747,623.33	1,755,704.32	40.60582755	-104.58463987
100.00	0.00	0.00	100.00	0.00	0.00	14,747,623.33	1,755,704.32	40.60582755	-104.58463987
200.00	0.00	0.00	200.00	0.00	0.00	14,747,623.33	1,755,704.32	40.60582755	-104.58463987
300.00	0.00	0.00	300.00	0.00	0.00	14,747,623.33	1,755,704.32	40.60582755	-104.58463987
400.00	0.00	0.00	400.00	0.00	0.00	14,747,623.33	1,755,704.32	40.60582755	-104.58463987
500.00	0.00	0.00	500.00	0.00	0.00	14,747,623.33	1,755,704.32	40.60582755	-104.58463987
600.00	0.00	0.00	600.00	0.00	0.00	14,747,623.33	1,755,704.32	40.60582755	-104.58463987
700.00	0.00	0.00	700.00	0.00	0.00	14,747,623.33	1,755,704.32	40.60582755	-104.58463987
800.00	0.00	0.00	800.00	0.00	0.00	14,747,623.33	1,755,704.32	40.60582755	-104.58463987
900.00	0.00	0.00	900.00	0.00	0.00	14,747,623.33	1,755,704.32	40.60582755	-104.58463987
1,000.00	0.00	0.00	1,000.00	0.00	0.00	14,747,623.33	1,755,704.32	40.60582755	-104.58463987
1,100.00	0.00	0.00	1,100.00	0.00	0.00	14,747,623.33	1,755,704.32	40.60582755	-104.58463987
1,200.00	0.00	0.00	1,200.00	0.00	0.00	14,747,623.33	1,755,704.32	40.60582755	-104.58463987
1,300.00	0.00	0.00	1,300.00	0.00	0.00	14,747,623.33	1,755,704.32	40.60582755	-104.58463987
1,400.00	0.00	0.00	1,400.00	0.00	0.00	14,747,623.33	1,755,704.32	40.60582755	-104.58463987
1,500.00	0.00	0.00	1,500.00	0.00	0.00	14,747,623.33	1,755,704.32	40.60582755	-104.58463987
1,600.00	0.00	0.00	1,600.00	0.00	0.00	14,747,623.33	1,755,704.32	40.60582755	-104.58463987
1,700.00	0.00	0.00	1,700.00	0.00	0.00	14,747,623.33	1,755,704.32	40.60582755	-104.58463987
1,800.00	0.00	0.00	1,800.00	0.00	0.00	14,747,623.33	1,755,704.32	40.60582755	-104.58463987
1,900.00	0.00	0.00	1,900.00	0.00	0.00	14,747,623.33	1,755,704.32	40.60582755	-104.58463987
2,000.00	0.00	0.00	2,000.00	0.00	0.00	14,747,623.33	1,755,704.32	40.60582755	-104.58463987
2,100.00	0.00	0.00	2,100.00	0.00	0.00	14,747,623.33	1,755,704.32	40.60582755	-104.58463987
2,200.00	0.00	0.00	2,200.00	0.00	0.00	14,747,623.33	1,755,704.32	40.60582755	-104.58463987
2,300.00	0.00	0.00	2,300.00	0.00	0.00	14,747,623.33	1,755,704.32	40.60582755	-104.58463987
2,400.00	0.00	0.00	2,400.00	0.00	0.00	14,747,623.33	1,755,704.32	40.60582755	-104.58463987
2,500.00	0.00	0.00	2,500.00	0.00	0.00	14,747,623.33	1,755,704.32	40.60582755	-104.58463987
2,600.00	0.00	0.00	2,600.00	0.00	0.00	14,747,623.33	1,755,704.32	40.60582755	-104.58463987
2,700.00	0.00	0.00	2,700.00	0.00	0.00	14,747,623.33	1,755,704.32	40.60582755	-104.58463987
2,800.00	0.00	0.00	2,800.00	0.00	0.00	14,747,623.33	1,755,704.32	40.60582755	-104.58463987
2,900.00	0.00	0.00	2,900.00	0.00	0.00	14,747,623.33	1,755,704.32	40.60582755	-104.58463987
3,000.00	0.00	0.00	3,000.00	0.00	0.00	14,747,623.33	1,755,704.32	40.60582755	-104.58463987
KOP Begin 1°/100' build									
3,100.00	1.00	87.57	3,099.99	0.04	0.87	14,747,623.37	1,755,705.19	40.60582765	-104.58463673
3,200.00	2.00	87.57	3,199.96	0.15	3.49	14,747,623.49	1,755,707.81	40.60582796	-104.58462731
3,300.00	3.00	87.57	3,299.86	0.33	7.85	14,747,623.70	1,755,712.16	40.60582846	-104.58461161
3,400.00	4.00	87.57	3,399.68	0.59	13.94	14,747,623.99	1,755,718.26	40.60582918	-104.58458963
3,500.00	5.00	87.57	3,499.37	0.93	21.78	14,747,624.36	1,755,726.10	40.60583009	-104.58456139
3,600.00	6.00	87.57	3,598.90	1.33	31.36	14,747,624.81	1,755,735.67	40.60583121	-104.58452689
3,700.00	7.00	87.57	3,698.26	1.81	42.67	14,747,625.34	1,755,746.98	40.60583253	-104.58448615
3,800.00	8.00	87.57	3,797.40	2.37	55.71	14,747,625.96	1,755,760.02	40.60583405	-104.58443916
3,900.00	9.00	87.57	3,896.30	3.00	70.48	14,747,626.66	1,755,774.78	40.60583577	-104.58438596
4,000.00	10.00	87.57	3,994.93	3.70	86.97	14,747,627.44	1,755,791.27	40.60583770	-104.58432655
4,072.03	10.72	87.57	4,065.79	4.25	99.91	14,747,628.05	1,755,804.21	40.60583921	-104.58427993
Begin 10.72° tangent									
4,100.00	10.72	87.57	4,093.27	4.47	105.11	14,747,628.29	1,755,809.40	40.60583982	-104.58426120
4,200.00	10.72	87.57	4,191.52	5.26	123.69	14,747,629.17	1,755,827.98	40.60584199	-104.58419424
4,300.00	10.72	87.57	4,289.78	6.05	142.28	14,747,630.05	1,755,846.56	40.60584415	-104.58412729
4,400.00	10.72	87.57	4,388.03	6.84	160.86	14,747,630.93	1,755,865.15	40.60584632	-104.58406033
4,500.00	10.72	87.57	4,486.29	7.63	179.45	14,747,631.80	1,755,883.73	40.60584849	-104.58399337
4,600.00	10.72	87.57	4,584.54	8.42	198.03	14,747,632.68	1,755,902.31	40.60585066	-104.58392642
4,700.00	10.72	87.57	4,682.80	9.21	216.61	14,747,633.56	1,755,920.89	40.60585283	-104.58385946
4,800.00	10.72	87.57	4,781.05	10.00	235.20	14,747,634.44	1,755,939.47	40.60585500	-104.58379250
4,900.00	10.72	87.57	4,879.31	10.79	253.78	14,747,635.32	1,755,958.05	40.60585717	-104.58372555
5,000.00	10.72	87.57	4,977.56	11.58	272.37	14,747,636.19	1,755,976.63	40.60585934	-104.58365859

Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Dotsero 6-03-03L
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 6-03-03L	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	10.72	87.57	5,075.81	12.37	290.95	14,747,637.07	1,755,995.21	40.60586151	-104.58359164
5,200.00	10.72	87.57	5,174.07	13.16	309.54	14,747,637.95	1,756,013.79	40.60586368	-104.58352468
5,300.00	10.72	87.57	5,272.32	13.95	328.12	14,747,638.83	1,756,032.37	40.60586584	-104.58345772
5,400.00	10.72	87.57	5,370.58	14.74	346.71	14,747,639.70	1,756,050.95	40.60586801	-104.58339077
5,500.00	10.72	87.57	5,468.83	15.53	365.29	14,747,640.58	1,756,069.53	40.60587018	-104.58332381
5,600.00	10.72	87.57	5,567.09	16.32	383.88	14,747,641.46	1,756,088.11	40.60587235	-104.58325685
5,700.00	10.72	87.57	5,665.34	17.11	402.46	14,747,642.34	1,756,106.70	40.60587452	-104.58318990
5,800.00	10.72	87.57	5,763.60	17.90	421.05	14,747,643.22	1,756,125.28	40.60587669	-104.58312294
5,900.00	10.72	87.57	5,861.85	18.69	439.63	14,747,644.09	1,756,143.86	40.60587886	-104.58305598
6,000.00	10.72	87.57	5,960.11	19.48	458.22	14,747,644.97	1,756,162.44	40.60588102	-104.58298903
6,100.00	10.72	87.57	6,058.36	20.27	476.80	14,747,645.85	1,756,181.02	40.60588319	-104.58292207
6,200.00	10.72	87.57	6,156.62	21.06	495.39	14,747,646.73	1,756,199.60	40.60588536	-104.58285512
6,300.00	10.72	87.57	6,254.87	21.85	513.97	14,747,647.60	1,756,218.18	40.60588753	-104.58278816
6,400.00	10.72	87.57	6,353.13	22.64	532.56	14,747,648.48	1,756,236.76	40.60588970	-104.58272120
6,500.00	10.72	87.57	6,451.38	23.43	551.14	14,747,649.36	1,756,255.34	40.60589187	-104.58265425
6,587.82	10.72	87.57	6,537.67	24.12	567.46	14,747,650.13	1,756,271.66	40.60589377	-104.58259544
Begin 10°/100' build/turn									
6,600.00	9.50	87.14	6,549.66	24.22	569.60	14,747,650.24	1,756,273.80	40.60589404	-104.58258775
6,700.00	0.80	320.62	6,649.22	25.17	577.42	14,747,651.23	1,756,281.61	40.60589665	-104.58255956
6,800.00	10.53	274.07	6,748.63	26.36	567.84	14,747,652.37	1,756,272.03	40.60589992	-104.58259408
6,900.00	20.52	272.42	6,844.85	27.75	541.14	14,747,653.64	1,756,245.32	40.60590374	-104.58269027
7,000.00	30.52	271.82	6,934.98	29.30	498.14	14,747,654.98	1,756,202.31	40.60590800	-104.58284519
7,100.00	40.52	271.50	7,016.27	30.97	440.14	14,747,656.37	1,756,144.31	40.60591257	-104.58305415
7,200.00	50.52	271.29	7,086.25	32.69	368.90	14,747,657.76	1,756,073.06	40.60591730	-104.58331080
7,300.00	60.52	271.13	7,142.80	34.42	286.60	14,747,659.10	1,755,990.75	40.60592206	-104.58360733
7,400.00	70.52	271.00	7,184.19	36.11	195.72	14,747,660.37	1,755,899.87	40.60592671	-104.58393473
7,500.00	80.52	270.89	7,209.17	37.71	99.04	14,747,661.50	1,755,803.18	40.60593109	-104.58428307
7,594.85	90.00	270.79	7,217.00	39.09	4.62	14,747,662.44	1,755,708.76	40.60593488	-104.58462321
Begin 90.00° lateral									
7,600.00	90.00	270.79	7,217.00	39.16	-0.52	14,747,662.49	1,755,703.61	40.60593507	-104.58464175
7,700.00	90.00	270.79	7,217.00	40.53	-100.51	14,747,663.39	1,755,603.62	40.60593885	-104.58500199
7,800.00	90.00	270.79	7,217.00	41.91	-200.50	14,747,664.29	1,755,503.62	40.60594262	-104.58536223
7,900.00	90.00	270.79	7,217.00	43.28	-300.49	14,747,665.19	1,755,403.63	40.60594639	-104.58572247
8,000.00	90.00	270.79	7,217.00	44.66	-400.48	14,747,666.10	1,755,303.63	40.60595016	-104.58608272
8,100.00	90.00	270.79	7,217.00	46.03	-500.47	14,747,667.00	1,755,203.64	40.60595393	-104.58644296
8,200.00	90.00	270.79	7,217.00	47.41	-600.46	14,747,667.90	1,755,103.64	40.60595770	-104.58680320
8,300.00	90.00	270.79	7,217.00	48.78	-700.45	14,747,668.80	1,755,003.64	40.60596146	-104.58716345
8,400.00	90.00	270.79	7,217.00	50.15	-800.44	14,747,669.71	1,754,903.65	40.60596523	-104.58752369
8,500.00	90.00	270.79	7,217.00	51.53	-900.44	14,747,670.61	1,754,803.65	40.60596899	-104.58788393
8,600.00	90.00	270.79	7,217.00	52.90	-1,000.43	14,747,671.51	1,754,703.66	40.60597276	-104.58824417
8,700.00	90.00	270.79	7,217.00	54.28	-1,100.42	14,747,672.41	1,754,603.66	40.60597652	-104.58860442
8,800.00	90.00	270.79	7,217.00	55.65	-1,200.41	14,747,673.32	1,754,503.67	40.60598028	-104.58896466
8,900.00	90.00	270.79	7,217.00	57.03	-1,300.40	14,747,674.22	1,754,403.67	40.60598404	-104.58932490
9,000.00	90.00	270.79	7,217.00	58.40	-1,400.39	14,747,675.12	1,754,303.67	40.60598780	-104.58968515
9,100.00	90.00	270.79	7,217.00	59.78	-1,500.38	14,747,676.02	1,754,203.68	40.60599156	-104.59004539
9,200.00	90.00	270.79	7,217.00	61.15	-1,600.37	14,747,676.93	1,754,103.68	40.60599531	-104.59040563
9,300.00	90.00	270.79	7,217.00	62.52	-1,700.36	14,747,677.83	1,754,003.69	40.60599907	-104.59076588
9,400.00	90.00	270.79	7,217.00	63.90	-1,800.35	14,747,678.73	1,753,903.69	40.60600282	-104.59112612
9,500.00	90.00	270.79	7,217.00	65.27	-1,900.34	14,747,679.63	1,753,803.70	40.60600657	-104.59148636
9,600.00	90.00	270.79	7,217.00	66.65	-2,000.33	14,747,680.54	1,753,703.70	40.60601033	-104.59184661
9,700.00	90.00	270.79	7,217.00	68.02	-2,100.32	14,747,681.44	1,753,603.70	40.60601408	-104.59220685
9,800.00	90.00	270.79	7,217.00	69.40	-2,200.31	14,747,682.34	1,753,503.71	40.60601783	-104.59256709
9,900.00	90.00	270.79	7,217.00	70.77	-2,300.30	14,747,683.25	1,753,403.71	40.60602158	-104.59292734
10,000.00	90.00	270.79	7,217.00	72.15	-2,400.29	14,747,684.15	1,753,303.72	40.60602532	-104.59328758

Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Dotsero 6-03-03L
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 6-03-03L	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	270.79	7,217.00	73.52	-2,500.28	14,747,685.05	1,753,203.72	40.60602907	-104.59364782
10,200.00	90.00	270.79	7,217.00	74.89	-2,600.27	14,747,685.95	1,753,103.73	40.60603281	-104.59400807
10,300.00	90.00	270.79	7,217.00	76.27	-2,700.27	14,747,686.86	1,753,003.73	40.60603656	-104.59436831
10,400.00	90.00	270.79	7,217.00	77.64	-2,800.26	14,747,687.76	1,752,903.73	40.60604030	-104.59472855
10,500.00	90.00	270.79	7,217.00	79.02	-2,900.25	14,747,688.66	1,752,803.74	40.60604404	-104.59508880
10,600.00	90.00	270.79	7,217.00	80.39	-3,000.24	14,747,689.56	1,752,703.74	40.60604778	-104.59544904
10,700.00	90.00	270.79	7,217.00	81.77	-3,100.23	14,747,690.47	1,752,603.75	40.60605152	-104.59580929
10,800.00	90.00	270.79	7,217.00	83.14	-3,200.22	14,747,691.37	1,752,503.75	40.60605526	-104.59616953
10,900.00	90.00	270.79	7,217.00	84.51	-3,300.21	14,747,692.27	1,752,403.76	40.60605900	-104.59652977
11,000.00	90.00	270.79	7,217.00	85.89	-3,400.20	14,747,693.17	1,752,303.76	40.60606274	-104.59689002
11,100.00	90.00	270.79	7,217.00	87.26	-3,500.19	14,747,694.08	1,752,203.76	40.60606647	-104.59725026
11,200.00	90.00	270.79	7,217.00	88.64	-3,600.18	14,747,694.98	1,752,103.77	40.60607020	-104.59761051
11,300.00	90.00	270.79	7,217.00	90.01	-3,700.17	14,747,695.88	1,752,003.77	40.60607394	-104.59797075
11,400.00	90.00	270.79	7,217.00	91.39	-3,800.16	14,747,696.78	1,751,903.78	40.60607767	-104.59833099
11,500.00	90.00	270.79	7,217.00	92.76	-3,900.15	14,747,697.69	1,751,803.78	40.60608140	-104.59869124
11,600.00	90.00	270.79	7,217.00	94.14	-4,000.14	14,747,698.59	1,751,703.78	40.60608513	-104.59905148
11,700.00	90.00	270.79	7,217.00	95.51	-4,100.13	14,747,699.49	1,751,603.79	40.60608886	-104.59941173
11,800.00	90.00	270.79	7,217.00	96.88	-4,200.12	14,747,700.39	1,751,503.79	40.60609258	-104.59977197
11,900.00	90.00	270.79	7,217.00	98.26	-4,300.11	14,747,701.30	1,751,403.80	40.60609631	-104.60013222
12,000.00	90.00	270.79	7,217.00	99.63	-4,400.10	14,747,702.20	1,751,303.80	40.60610004	-104.60049246
12,100.00	90.00	270.79	7,217.00	101.01	-4,500.10	14,747,703.10	1,751,203.81	40.60610376	-104.60085270
12,200.00	90.00	270.79	7,217.00	102.38	-4,600.09	14,747,704.00	1,751,103.81	40.60610748	-104.60121295
12,300.00	90.00	270.79	7,217.00	103.76	-4,700.08	14,747,704.91	1,751,003.81	40.60611120	-104.60157319
12,400.00	90.00	270.79	7,217.00	105.13	-4,800.07	14,747,705.81	1,750,903.82	40.60611492	-104.60193344
12,500.00	90.00	270.79	7,217.00	106.51	-4,900.06	14,747,706.71	1,750,803.82	40.60611864	-104.60229368
12,600.00	90.00	270.79	7,217.00	107.88	-5,000.05	14,747,707.61	1,750,703.83	40.60612236	-104.60265393
12,700.00	90.00	270.79	7,217.00	109.25	-5,100.04	14,747,708.52	1,750,603.83	40.60612608	-104.60301417
12,800.00	90.00	270.79	7,217.00	110.63	-5,200.03	14,747,709.42	1,750,503.84	40.60612980	-104.60337442
12,900.00	90.00	270.79	7,217.00	112.00	-5,300.02	14,747,710.32	1,750,403.84	40.60613351	-104.60373466
13,000.00	90.00	270.79	7,217.00	113.38	-5,400.01	14,747,711.23	1,750,303.84	40.60613722	-104.60409491
13,100.00	90.00	270.79	7,217.00	114.75	-5,500.00	14,747,712.13	1,750,203.85	40.60614094	-104.60445515
13,200.00	90.00	270.79	7,217.00	116.13	-5,599.99	14,747,713.03	1,750,103.85	40.60614465	-104.60481540
13,300.00	90.00	270.79	7,217.00	117.50	-5,699.98	14,747,713.93	1,750,003.86	40.60614836	-104.60517564
13,400.00	90.00	270.79	7,217.00	118.87	-5,799.97	14,747,714.84	1,749,903.86	40.60615207	-104.60553589
13,500.00	90.00	270.79	7,217.00	120.25	-5,899.96	14,747,715.74	1,749,803.87	40.60615578	-104.60589613
13,600.00	90.00	270.79	7,217.00	121.62	-5,999.95	14,747,716.64	1,749,703.87	40.60615948	-104.60625638
13,700.00	90.00	270.79	7,217.00	123.00	-6,099.94	14,747,717.54	1,749,603.87	40.60616319	-104.60661662
13,800.00	90.00	270.79	7,217.00	124.37	-6,199.93	14,747,718.45	1,749,503.88	40.60616689	-104.60697687
13,900.00	90.00	270.79	7,217.00	125.75	-6,299.93	14,747,719.35	1,749,403.88	40.60617060	-104.60733712
14,000.00	90.00	270.79	7,217.00	127.12	-6,399.92	14,747,720.25	1,749,303.89	40.60617430	-104.60769736
14,100.00	90.00	270.79	7,217.00	128.50	-6,499.91	14,747,721.15	1,749,203.89	40.60617800	-104.60805761
14,200.00	90.00	270.79	7,217.00	129.87	-6,599.90	14,747,722.06	1,749,103.90	40.60618170	-104.60841785
14,300.00	90.00	270.79	7,217.00	131.24	-6,699.89	14,747,722.96	1,749,003.90	40.60618540	-104.60877810
14,400.00	90.00	270.79	7,217.00	132.62	-6,799.88	14,747,723.86	1,748,903.90	40.60618910	-104.60913834
14,500.00	90.00	270.79	7,217.00	133.99	-6,899.87	14,747,724.76	1,748,803.91	40.60619279	-104.60949859
14,600.00	90.00	270.79	7,217.00	135.37	-6,999.86	14,747,725.67	1,748,703.91	40.60619649	-104.60985884
14,700.00	90.00	270.79	7,217.00	136.74	-7,099.85	14,747,726.57	1,748,603.92	40.60620019	-104.61021908
14,800.00	90.00	270.79	7,217.00	138.12	-7,199.84	14,747,727.47	1,748,503.92	40.60620388	-104.61057933
14,900.00	90.00	270.79	7,217.00	139.49	-7,299.83	14,747,728.37	1,748,403.93	40.60620757	-104.61093957
15,000.00	90.00	270.79	7,217.00	140.87	-7,399.82	14,747,729.28	1,748,303.93	40.60621126	-104.61129982
15,100.00	90.00	270.79	7,217.00	142.24	-7,499.81	14,747,730.18	1,748,203.93	40.60621495	-104.61166006
15,200.00	90.00	270.79	7,217.00	143.61	-7,599.80	14,747,731.08	1,748,103.94	40.60621864	-104.61202031
15,300.00	90.00	270.79	7,217.00	144.99	-7,699.79	14,747,731.98	1,748,003.94	40.60622233	-104.61238056
15,400.00	90.00	270.79	7,217.00	146.36	-7,799.78	14,747,732.89	1,747,903.95	40.60622602	-104.61274080
15,500.00	90.00	270.79	7,217.00	147.74	-7,899.77	14,747,733.79	1,747,803.95	40.60622970	-104.61310105

Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Dotsero 6-03-03L
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 6-03-03L	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	270.79	7,217.00	149.11	-7,999.76	14,747,734.69	1,747,703.96	40.60623339	-104.61346130	
15,700.00	90.00	270.79	7,217.00	150.49	-8,099.76	14,747,735.59	1,747,603.96	40.60623707	-104.61382154	
15,800.00	90.00	270.79	7,217.00	151.86	-8,199.75	14,747,736.50	1,747,503.96	40.60624075	-104.61418179	
15,900.00	90.00	270.79	7,217.00	153.23	-8,299.74	14,747,737.40	1,747,403.97	40.60624443	-104.61454203	
16,000.00	90.00	270.79	7,217.00	154.61	-8,399.73	14,747,738.30	1,747,303.97	40.60624811	-104.61490228	
16,100.00	90.00	270.79	7,217.00	155.98	-8,499.72	14,747,739.20	1,747,203.98	40.60625179	-104.61526253	
16,200.00	90.00	270.79	7,217.00	157.36	-8,599.71	14,747,740.11	1,747,103.98	40.60625547	-104.61562277	
16,300.00	90.00	270.79	7,217.00	158.73	-8,699.70	14,747,741.01	1,747,003.99	40.60625915	-104.61598302	
16,400.00	90.00	270.79	7,217.00	160.11	-8,799.69	14,747,741.91	1,746,903.99	40.60626282	-104.61634327	
16,500.00	90.00	270.79	7,217.00	161.48	-8,899.68	14,747,742.82	1,746,803.99	40.60626650	-104.61670351	
16,600.00	90.00	270.79	7,217.00	162.86	-8,999.67	14,747,743.72	1,746,704.00	40.60627017	-104.61706376	
16,700.00	90.00	270.79	7,217.00	164.23	-9,099.66	14,747,744.62	1,746,604.00	40.60627384	-104.61742401	
16,800.00	90.00	270.79	7,217.00	165.60	-9,199.65	14,747,745.52	1,746,504.01	40.60627751	-104.61778426	
16,900.00	90.00	270.79	7,217.00	166.98	-9,299.64	14,747,746.43	1,746,404.01	40.60628118	-104.61814450	
17,000.00	90.00	270.79	7,217.00	168.35	-9,399.63	14,747,747.33	1,746,304.02	40.60628485	-104.61850475	
17,005.73	90.00	270.79	7,217.00	168.43	-9,405.36	14,747,747.38	1,746,298.29	40.60628506	-104.61852538	
PBHL/TD 17005.73 MD/7217.00 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										
Dotsero 6-03-03L LP 11!	0.00	0.00	7,217.00	39.09	4.62	14,747,662.44	1,755,708.76	40.60593488	-104.58462321	
- plan hits target center										
- Point										
Dotsero 6-03-03L PBHL	0.00	0.00	7,217.00	168.43	-9,405.36	14,747,747.38	1,746,298.29	40.60628506	-104.61852538	
- plan hits target center										
- Point										

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	
4,072.03	4,065.79	4.25	99.91	Begin 10.72° tangent	
6,587.82	6,537.67	24.12	567.46	Begin 10°/100' build/turn	
7,594.85	7,217.00	39.09	4.62	Begin 90.00° lateral	
17,005.73	7,217.00	168.43	-9,405.36	PBHL/TD 17005.73 MD/7217.00 TVD	