

Weld County, Colorado

Section 06-T07N-R64W

Dotsero 6-09-03L

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 2°/100' build
3	3602.78	12.06	54.25	3598.35	36.91	51.28	2.00	-48.72	Begin 12.06° tangent
4	6627.36	12.06	54.25	6556.21	405.97	563.98	0.00	-535.79	Begin 10°/100' build/turn
5	7623.98	90.00	270.77	7220.00	497.95	0.34	10.00	32.71	Begin 90.00° lateral
6	17016.51	90.00	270.77	7220.00	624.67	-9391.34	0.00	9412.09	PBHL/TD 17016.51 MD/7220.00 TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Dotsero 6-09-03L LP 3218 FNL 470 FEL	7220.00	497.95	0.34	14745601.58	1755738.23	40.60027572	-104.58455208
Dotsero 6-09-03L PBHL 3218 FNL 470 FWL	7220.00	624.67	-9391.34	14745683.98	1746346.08	40.60061872	-104.61838543

Dotsero 6-09-03L			
Surf loc: 1551 FSL 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
14745103.63	1755740.24	40.59890841	-104.58455331

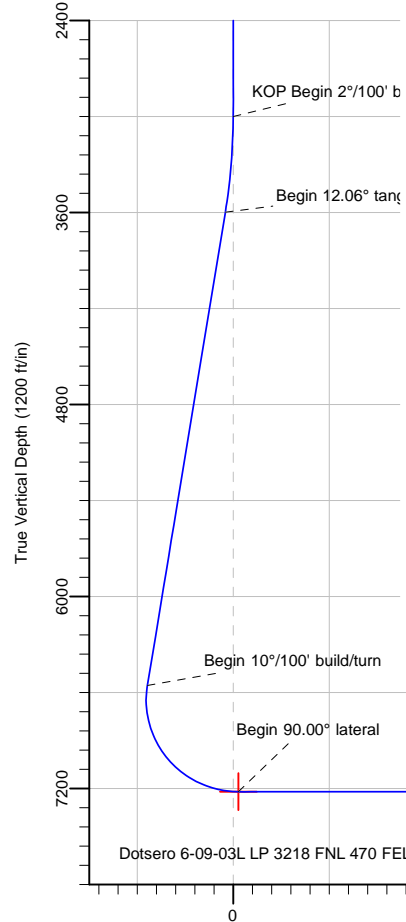
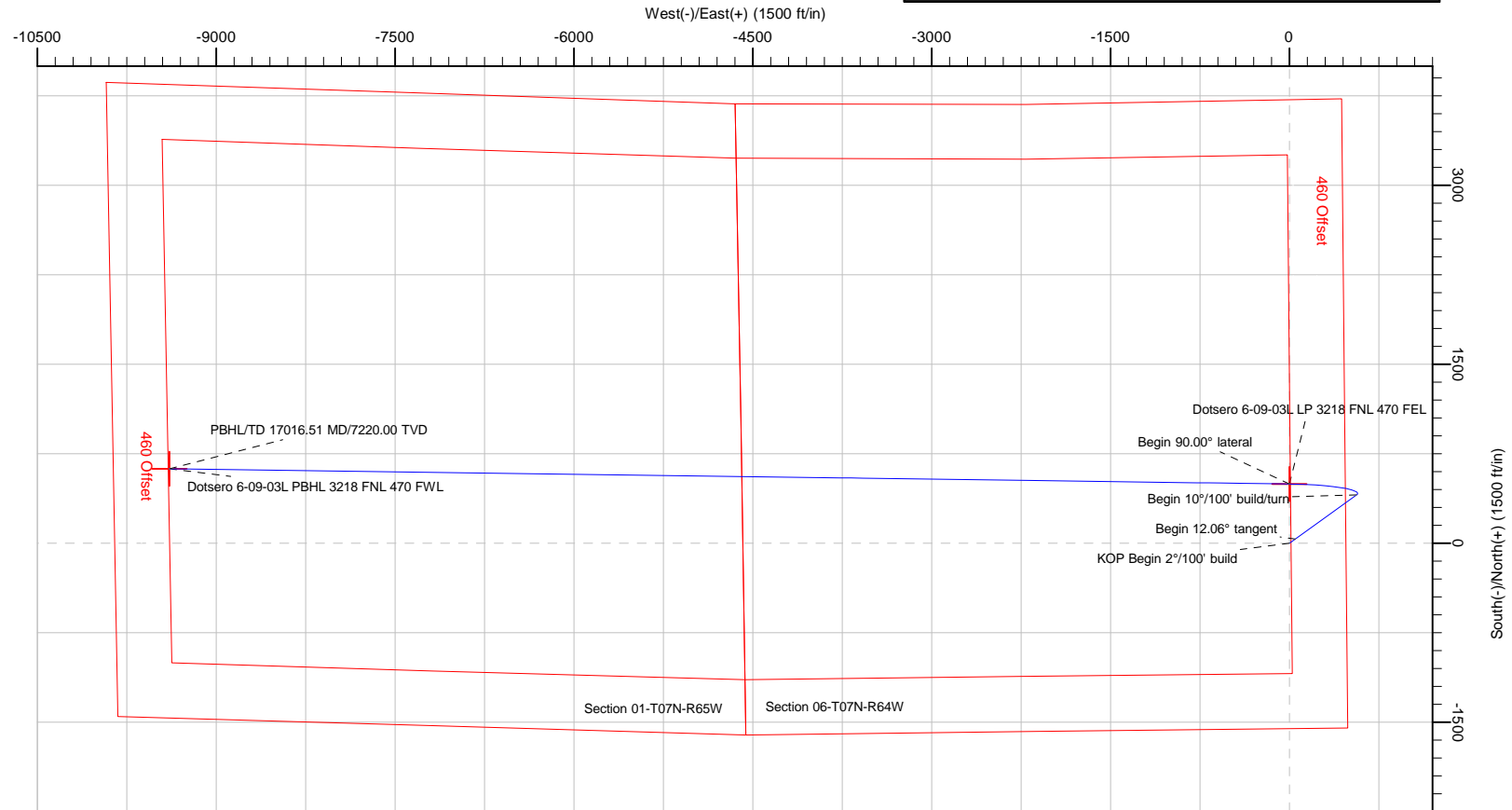


Azimuths to True North
Magnetic North: 7.98°

Magnetic Field
Strength: 52359.2snT
Dip Angle: 66.98°
Date: 2/19/2018
Model: HDGM

Azimuth Corrections:

To convert a Magnetic Direction to a True Direction, Add 7.98° East



PBHL/TD 17016.51 MD/7220.00 TVD

Dotsero 6-09-03L PBHL 3218 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 6-09-03L
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 6-09-03L	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 6-09-03L, Surf loc: 1551 FSL 475 FEL Section 06-T07N-R64W					
Well Position	+N/-S	-1,080.95 ft	Northing:	14,745,103.63 usft	Latitude:	40.59890840
	+E/-W	5.11 ft	Easting:	1,755,740.24 usft	Longitude:	-104.58455330
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	2/19/2018	7.98	66.98	52,359.20000000

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	273.81

Plan Survey Tool Program	Date	2/19/2018		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	17,016.52	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	
3,602.78	12.06	54.25	3,598.35	36.91	51.28	2.00	2.00	0.00	54.25	
6,627.36	12.06	54.25	6,556.21	405.97	563.98	0.00	0.00	0.00	0.00	
7,623.98	90.00	270.77	7,220.00	497.95	0.34	10.00	7.82	-14.40	-142.87	Dotsero 6-09-03L LP :
17,016.52	90.00	270.77	7,220.00	624.67	-9,391.34	0.00	0.00	0.00	0.00	Dotsero 6-09-03L PBI

Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Dotsero 6-09-03L
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 6-09-03L	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 2°/100' build									
3,100.00	2.00	54.25	3,099.98	1.02	1.42	-1.35	2.00	2.00	0.00
3,200.00	4.00	54.25	3,199.84	4.08	5.66	-5.38	2.00	2.00	0.00
3,300.00	6.00	54.25	3,299.45	9.17	12.74	-12.10	2.00	2.00	0.00
3,400.00	8.00	54.25	3,398.70	16.29	22.63	-21.50	2.00	2.00	0.00
3,500.00	10.00	54.25	3,497.47	25.43	35.32	-33.56	2.00	2.00	0.00
3,600.00	12.00	54.25	3,595.62	36.57	50.81	-48.27	2.00	2.00	0.00
3,602.78	12.06	54.25	3,598.35	36.91	51.28	-48.72	2.00	2.00	0.00
Begin 12.06° tangent									
3,700.00	12.06	54.25	3,693.42	48.77	67.76	-64.37	0.00	0.00	0.00
3,800.00	12.06	54.25	3,791.21	60.98	84.71	-80.48	0.00	0.00	0.00
3,900.00	12.06	54.25	3,889.01	73.18	101.66	-96.58	0.00	0.00	0.00
4,000.00	12.06	54.25	3,986.80	85.38	118.61	-112.68	0.00	0.00	0.00
4,100.00	12.06	54.25	4,084.60	97.58	135.56	-128.79	0.00	0.00	0.00
4,200.00	12.06	54.25	4,182.39	109.79	152.51	-144.89	0.00	0.00	0.00
4,300.00	12.06	54.25	4,280.19	121.99	169.47	-161.00	0.00	0.00	0.00
4,400.00	12.06	54.25	4,377.98	134.19	186.42	-177.10	0.00	0.00	0.00
4,500.00	12.06	54.25	4,475.77	146.39	203.37	-193.20	0.00	0.00	0.00
4,600.00	12.06	54.25	4,573.57	158.59	220.32	-209.31	0.00	0.00	0.00
4,700.00	12.06	54.25	4,671.36	170.80	237.27	-225.41	0.00	0.00	0.00
4,800.00	12.06	54.25	4,769.16	183.00	254.22	-241.51	0.00	0.00	0.00
4,900.00	12.06	54.25	4,866.95	195.20	271.17	-257.62	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 6-09-03L	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	12.06	54.25	4,964.75	207.40	288.12	-273.72	0.00	0.00	0.00	
5,100.00	12.06	54.25	5,062.54	219.60	305.07	-289.83	0.00	0.00	0.00	
5,200.00	12.06	54.25	5,160.34	231.81	322.03	-305.93	0.00	0.00	0.00	
5,300.00	12.06	54.25	5,258.13	244.01	338.98	-322.03	0.00	0.00	0.00	
5,400.00	12.06	54.25	5,355.92	256.21	355.93	-338.14	0.00	0.00	0.00	
5,500.00	12.06	54.25	5,453.72	268.41	372.88	-354.24	0.00	0.00	0.00	
5,600.00	12.06	54.25	5,551.51	280.62	389.83	-370.35	0.00	0.00	0.00	
5,700.00	12.06	54.25	5,649.31	292.82	406.78	-386.45	0.00	0.00	0.00	
5,800.00	12.06	54.25	5,747.10	305.02	423.73	-402.55	0.00	0.00	0.00	
5,900.00	12.06	54.25	5,844.90	317.22	440.68	-418.66	0.00	0.00	0.00	
6,000.00	12.06	54.25	5,942.69	329.42	457.63	-434.76	0.00	0.00	0.00	
6,100.00	12.06	54.25	6,040.49	341.63	474.59	-450.87	0.00	0.00	0.00	
6,200.00	12.06	54.25	6,138.28	353.83	491.54	-466.97	0.00	0.00	0.00	
6,300.00	12.06	54.25	6,236.08	366.03	508.49	-483.07	0.00	0.00	0.00	
6,400.00	12.06	54.25	6,333.87	378.23	525.44	-499.18	0.00	0.00	0.00	
6,500.00	12.06	54.25	6,431.66	390.43	542.39	-515.28	0.00	0.00	0.00	
6,600.00	12.06	54.25	6,529.46	402.64	559.34	-531.39	0.00	0.00	0.00	
6,627.36	12.06	54.25	6,556.21	405.97	563.98	-535.79	0.00	0.00	0.00	
Begin 10°/100' build/turn										
6,700.00	7.63	19.15	6,627.83	414.97	571.73	-542.93	10.00	-6.09	-48.32	
6,800.00	10.49	314.15	6,726.80	427.61	567.37	-537.73	10.00	2.86	-65.00	
6,900.00	18.99	292.45	6,823.49	440.20	545.74	-515.32	10.00	8.50	-21.70	
7,000.00	28.46	284.33	6,914.96	452.34	507.52	-476.38	10.00	9.47	-8.12	
7,100.00	38.19	280.07	6,998.42	463.67	453.86	-422.08	10.00	9.73	-4.26	
7,200.00	48.02	277.34	7,071.35	473.85	386.39	-354.08	10.00	9.83	-2.73	
7,300.00	57.89	275.35	7,131.53	482.57	307.15	-274.45	10.00	9.87	-1.99	
7,400.00	67.79	273.75	7,177.12	489.56	218.57	-185.60	10.00	9.90	-1.60	
7,500.00	77.70	272.36	7,206.74	494.61	123.32	-90.23	10.00	9.91	-1.39	
7,600.00	87.62	271.08	7,219.50	497.57	24.31	8.76	10.00	9.92	-1.29	
7,623.98	90.00	270.77	7,220.00	497.95	0.34	32.71	10.00	9.92	-1.26	
Begin 90.00° lateral										
7,700.00	90.00	270.77	7,220.00	498.98	-75.67	108.62	0.00	0.00	0.00	
7,800.00	90.00	270.77	7,220.00	500.33	-175.66	208.48	0.00	0.00	0.00	
7,900.00	90.00	270.77	7,220.00	501.68	-275.65	308.34	0.00	0.00	0.00	
8,000.00	90.00	270.77	7,220.00	503.03	-375.64	408.20	0.00	0.00	0.00	
8,100.00	90.00	270.77	7,220.00	504.38	-475.63	508.06	0.00	0.00	0.00	
8,200.00	90.00	270.77	7,220.00	505.73	-575.62	607.92	0.00	0.00	0.00	
8,300.00	90.00	270.77	7,220.00	507.08	-675.61	707.78	0.00	0.00	0.00	
8,400.00	90.00	270.77	7,220.00	508.42	-775.61	807.64	0.00	0.00	0.00	
8,500.00	90.00	270.77	7,220.00	509.77	-875.60	907.50	0.00	0.00	0.00	
8,600.00	90.00	270.77	7,220.00	511.12	-975.59	1,007.36	0.00	0.00	0.00	
8,700.00	90.00	270.77	7,220.00	512.47	-1,075.58	1,107.22	0.00	0.00	0.00	
8,800.00	90.00	270.77	7,220.00	513.82	-1,175.57	1,207.08	0.00	0.00	0.00	
8,900.00	90.00	270.77	7,220.00	515.17	-1,275.56	1,306.94	0.00	0.00	0.00	
9,000.00	90.00	270.77	7,220.00	516.52	-1,375.55	1,406.80	0.00	0.00	0.00	
9,100.00	90.00	270.77	7,220.00	517.87	-1,475.54	1,506.66	0.00	0.00	0.00	
9,200.00	90.00	270.77	7,220.00	519.22	-1,575.53	1,606.52	0.00	0.00	0.00	
9,300.00	90.00	270.77	7,220.00	520.57	-1,675.52	1,706.38	0.00	0.00	0.00	
9,400.00	90.00	270.77	7,220.00	521.92	-1,775.51	1,806.24	0.00	0.00	0.00	
9,500.00	90.00	270.77	7,220.00	523.27	-1,875.51	1,906.10	0.00	0.00	0.00	
9,600.00	90.00	270.77	7,220.00	524.61	-1,975.50	2,005.96	0.00	0.00	0.00	
9,700.00	90.00	270.77	7,220.00	525.96	-2,075.49	2,105.82	0.00	0.00	0.00	
9,800.00	90.00	270.77	7,220.00	527.31	-2,175.48	2,205.68	0.00	0.00	0.00	
9,900.00	90.00	270.77	7,220.00	528.66	-2,275.47	2,305.54	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 6-09-03L	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	270.77	7,220.00	530.01	-2,375.46	2,405.40	0.00	0.00	0.00
10,100.00	90.00	270.77	7,220.00	531.36	-2,475.45	2,505.26	0.00	0.00	0.00
10,200.00	90.00	270.77	7,220.00	532.71	-2,575.44	2,605.12	0.00	0.00	0.00
10,300.00	90.00	270.77	7,220.00	534.06	-2,675.43	2,704.98	0.00	0.00	0.00
10,400.00	90.00	270.77	7,220.00	535.41	-2,775.42	2,804.84	0.00	0.00	0.00
10,500.00	90.00	270.77	7,220.00	536.76	-2,875.41	2,904.70	0.00	0.00	0.00
10,600.00	90.00	270.77	7,220.00	538.11	-2,975.41	3,004.56	0.00	0.00	0.00
10,700.00	90.00	270.77	7,220.00	539.46	-3,075.40	3,104.42	0.00	0.00	0.00
10,800.00	90.00	270.77	7,220.00	540.80	-3,175.39	3,204.28	0.00	0.00	0.00
10,900.00	90.00	270.77	7,220.00	542.15	-3,275.38	3,304.14	0.00	0.00	0.00
11,000.00	90.00	270.77	7,220.00	543.50	-3,375.37	3,404.00	0.00	0.00	0.00
11,100.00	90.00	270.77	7,220.00	544.85	-3,475.36	3,503.86	0.00	0.00	0.00
11,200.00	90.00	270.77	7,220.00	546.20	-3,575.35	3,603.72	0.00	0.00	0.00
11,300.00	90.00	270.77	7,220.00	547.55	-3,675.34	3,703.58	0.00	0.00	0.00
11,400.00	90.00	270.77	7,220.00	548.90	-3,775.33	3,803.44	0.00	0.00	0.00
11,500.00	90.00	270.77	7,220.00	550.25	-3,875.32	3,903.30	0.00	0.00	0.00
11,600.00	90.00	270.77	7,220.00	551.60	-3,975.31	4,003.16	0.00	0.00	0.00
11,700.00	90.00	270.77	7,220.00	552.95	-4,075.30	4,103.02	0.00	0.00	0.00
11,800.00	90.00	270.77	7,220.00	554.30	-4,175.30	4,202.88	0.00	0.00	0.00
11,900.00	90.00	270.77	7,220.00	555.65	-4,275.29	4,302.74	0.00	0.00	0.00
12,000.00	90.00	270.77	7,220.00	556.99	-4,375.28	4,402.60	0.00	0.00	0.00
12,100.00	90.00	270.77	7,220.00	558.34	-4,475.27	4,502.46	0.00	0.00	0.00
12,200.00	90.00	270.77	7,220.00	559.69	-4,575.26	4,602.32	0.00	0.00	0.00
12,300.00	90.00	270.77	7,220.00	561.04	-4,675.25	4,702.18	0.00	0.00	0.00
12,400.00	90.00	270.77	7,220.00	562.39	-4,775.24	4,802.04	0.00	0.00	0.00
12,500.00	90.00	270.77	7,220.00	563.74	-4,875.23	4,901.90	0.00	0.00	0.00
12,600.00	90.00	270.77	7,220.00	565.09	-4,975.22	5,001.76	0.00	0.00	0.00
12,700.00	90.00	270.77	7,220.00	566.44	-5,075.21	5,101.62	0.00	0.00	0.00
12,800.00	90.00	270.77	7,220.00	567.79	-5,175.20	5,201.48	0.00	0.00	0.00
12,900.00	90.00	270.77	7,220.00	569.14	-5,275.20	5,301.34	0.00	0.00	0.00
13,000.00	90.00	270.77	7,220.00	570.49	-5,375.19	5,401.20	0.00	0.00	0.00
13,100.00	90.00	270.77	7,220.00	571.84	-5,475.18	5,501.06	0.00	0.00	0.00
13,200.00	90.00	270.77	7,220.00	573.18	-5,575.17	5,600.92	0.00	0.00	0.00
13,300.00	90.00	270.77	7,220.00	574.53	-5,675.16	5,700.78	0.00	0.00	0.00
13,400.00	90.00	270.77	7,220.00	575.88	-5,775.15	5,800.64	0.00	0.00	0.00
13,500.00	90.00	270.77	7,220.00	577.23	-5,875.14	5,900.50	0.00	0.00	0.00
13,600.00	90.00	270.77	7,220.00	578.58	-5,975.13	6,000.36	0.00	0.00	0.00
13,700.00	90.00	270.77	7,220.00	579.93	-6,075.12	6,100.22	0.00	0.00	0.00
13,800.00	90.00	270.77	7,220.00	581.28	-6,175.11	6,200.08	0.00	0.00	0.00
13,900.00	90.00	270.77	7,220.00	582.63	-6,275.10	6,299.94	0.00	0.00	0.00
14,000.00	90.00	270.77	7,220.00	583.98	-6,375.10	6,399.80	0.00	0.00	0.00
14,100.00	90.00	270.77	7,220.00	585.33	-6,475.09	6,499.66	0.00	0.00	0.00
14,200.00	90.00	270.77	7,220.00	586.68	-6,575.08	6,599.52	0.00	0.00	0.00
14,300.00	90.00	270.77	7,220.00	588.02	-6,675.07	6,699.38	0.00	0.00	0.00
14,400.00	90.00	270.77	7,220.00	589.37	-6,775.06	6,799.24	0.00	0.00	0.00
14,500.00	90.00	270.77	7,220.00	590.72	-6,875.05	6,899.10	0.00	0.00	0.00
14,600.00	90.00	270.77	7,220.00	592.07	-6,975.04	6,998.96	0.00	0.00	0.00
14,700.00	90.00	270.77	7,220.00	593.42	-7,075.03	7,098.82	0.00	0.00	0.00
14,800.00	90.00	270.77	7,220.00	594.77	-7,175.02	7,198.68	0.00	0.00	0.00
14,900.00	90.00	270.77	7,220.00	596.12	-7,275.01	7,298.54	0.00	0.00	0.00
15,000.00	90.00	270.77	7,220.00	597.47	-7,375.00	7,398.40	0.00	0.00	0.00
15,100.00	90.00	270.77	7,220.00	598.82	-7,475.00	7,498.26	0.00	0.00	0.00
15,200.00	90.00	270.77	7,220.00	600.17	-7,574.99	7,598.12	0.00	0.00	0.00
15,300.00	90.00	270.77	7,220.00	601.52	-7,674.98	7,697.98	0.00	0.00	0.00

Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Dotsero 6-09-03L
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 6-09-03L	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	270.77	7,220.00	602.87	-7,774.97	7,797.84	0.00	0.00	0.00
15,500.00	90.00	270.77	7,220.00	604.21	-7,874.96	7,897.70	0.00	0.00	0.00
15,600.00	90.00	270.77	7,220.00	605.56	-7,974.95	7,997.56	0.00	0.00	0.00
15,700.00	90.00	270.77	7,220.00	606.91	-8,074.94	8,097.42	0.00	0.00	0.00
15,800.00	90.00	270.77	7,220.00	608.26	-8,174.93	8,197.28	0.00	0.00	0.00
15,900.00	90.00	270.77	7,220.00	609.61	-8,274.92	8,297.14	0.00	0.00	0.00
16,000.00	90.00	270.77	7,220.00	610.96	-8,374.91	8,397.00	0.00	0.00	0.00
16,100.00	90.00	270.77	7,220.00	612.31	-8,474.90	8,496.86	0.00	0.00	0.00
16,200.00	90.00	270.77	7,220.00	613.66	-8,574.90	8,596.72	0.00	0.00	0.00
16,300.00	90.00	270.77	7,220.00	615.01	-8,674.89	8,696.58	0.00	0.00	0.00
16,400.00	90.00	270.77	7,220.00	616.36	-8,774.88	8,796.44	0.00	0.00	0.00
16,500.00	90.00	270.77	7,220.00	617.71	-8,874.87	8,896.30	0.00	0.00	0.00
16,600.00	90.00	270.77	7,220.00	619.06	-8,974.86	8,996.16	0.00	0.00	0.00
16,700.00	90.00	270.77	7,220.00	620.40	-9,074.85	9,096.02	0.00	0.00	0.00
16,800.00	90.00	270.77	7,220.00	621.75	-9,174.84	9,195.88	0.00	0.00	0.00
16,900.00	90.00	270.77	7,220.00	623.10	-9,274.83	9,295.74	0.00	0.00	0.00
17,000.00	90.00	270.77	7,220.00	624.45	-9,374.82	9,395.60	0.00	0.00	0.00
17,016.52	90.00	270.77	7,220.00	624.67	-9,391.34	9,412.09	0.00	0.00	0.00
PBHL/TD 17016.51 MD/7220.00 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 6-09-03L PBHL	0.00	0.00	7,220.00	624.67	-9,391.34	14,745,683.98	1,746,346.08	40.60061872	-104.61838543
- plan hits target center									
- Point									
Dotsero 6-09-03L LP 32	0.00	0.00	7,220.00	497.95	0.34	14,745,601.58	1,755,738.23	40.60027572	-104.58455208
- 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 2°/100' build
3,602.78	3,598.35	36.91	51.28	Begin 12.06° tangent
6,627.36	6,556.21	405.97	563.98	Begin 10°/100' build/turn
7,623.98	7,220.00	497.95	0.34	Begin 90.00° lateral
17,016.52	7,220.00	624.67	-9,391.34	PBHL/TD 17016.51 MD/7220.00 TVD

Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Dotsero 6-09-03L
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 6-09-03L	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 6-09-03L, Surf loc: 1551 FSL 475 FEL Section 06-T07N-R64W					
Well Position	+N/-S	0.00 ft	Northing:	14,745,103.63 usft	Latitude:	40.59890840
	+E/-W	0.00 ft	Easting:	1,755,740.24 usft	Longitude:	-104.58455330
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	2/19/2018	7.98	66.98	52,359.20000000

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	273.81

Plan Survey Tool Program	Date	2/19/2018		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	17,016.52 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	
3,602.78	12.06	54.25	3,598.35	36.91	51.28	2.00	2.00	0.00	54.25	
6,627.36	12.06	54.25	6,556.21	405.97	563.98	0.00	0.00	0.00	0.00	
7,623.98	90.00	270.77	7,220.00	497.95	0.34	10.00	7.82	-14.40	-142.87	Dotsero 6-09-03L LP :
17,016.52	90.00	270.77	7,220.00	624.67	-9,391.34	0.00	0.00	0.00	0.00	Dotsero 6-09-03L PBI

Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Dotsero 6-09-03L
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 6-09-03L	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	14,745,103.63	1,755,740.24	40.59890840	-104.58455330
100.00	0.00	0.00	100.00	0.00	0.00	14,745,103.63	1,755,740.24	40.59890840	-104.58455330
200.00	0.00	0.00	200.00	0.00	0.00	14,745,103.63	1,755,740.24	40.59890840	-104.58455330
300.00	0.00	0.00	300.00	0.00	0.00	14,745,103.63	1,755,740.24	40.59890840	-104.58455330
400.00	0.00	0.00	400.00	0.00	0.00	14,745,103.63	1,755,740.24	40.59890840	-104.58455330
500.00	0.00	0.00	500.00	0.00	0.00	14,745,103.63	1,755,740.24	40.59890840	-104.58455330
600.00	0.00	0.00	600.00	0.00	0.00	14,745,103.63	1,755,740.24	40.59890840	-104.58455330
700.00	0.00	0.00	700.00	0.00	0.00	14,745,103.63	1,755,740.24	40.59890840	-104.58455330
800.00	0.00	0.00	800.00	0.00	0.00	14,745,103.63	1,755,740.24	40.59890840	-104.58455330
900.00	0.00	0.00	900.00	0.00	0.00	14,745,103.63	1,755,740.24	40.59890840	-104.58455330
1,000.00	0.00	0.00	1,000.00	0.00	0.00	14,745,103.63	1,755,740.24	40.59890840	-104.58455330
1,100.00	0.00	0.00	1,100.00	0.00	0.00	14,745,103.63	1,755,740.24	40.59890840	-104.58455330
1,200.00	0.00	0.00	1,200.00	0.00	0.00	14,745,103.63	1,755,740.24	40.59890840	-104.58455330
1,300.00	0.00	0.00	1,300.00	0.00	0.00	14,745,103.63	1,755,740.24	40.59890840	-104.58455330
1,400.00	0.00	0.00	1,400.00	0.00	0.00	14,745,103.63	1,755,740.24	40.59890840	-104.58455330
1,500.00	0.00	0.00	1,500.00	0.00	0.00	14,745,103.63	1,755,740.24	40.59890840	-104.58455330
1,600.00	0.00	0.00	1,600.00	0.00	0.00	14,745,103.63	1,755,740.24	40.59890840	-104.58455330
1,700.00	0.00	0.00	1,700.00	0.00	0.00	14,745,103.63	1,755,740.24	40.59890840	-104.58455330
1,800.00	0.00	0.00	1,800.00	0.00	0.00	14,745,103.63	1,755,740.24	40.59890840	-104.58455330
1,900.00	0.00	0.00	1,900.00	0.00	0.00	14,745,103.63	1,755,740.24	40.59890840	-104.58455330
2,000.00	0.00	0.00	2,000.00	0.00	0.00	14,745,103.63	1,755,740.24	40.59890840	-104.58455330
2,100.00	0.00	0.00	2,100.00	0.00	0.00	14,745,103.63	1,755,740.24	40.59890840	-104.58455330
2,200.00	0.00	0.00	2,200.00	0.00	0.00	14,745,103.63	1,755,740.24	40.59890840	-104.58455330
2,300.00	0.00	0.00	2,300.00	0.00	0.00	14,745,103.63	1,755,740.24	40.59890840	-104.58455330
2,400.00	0.00	0.00	2,400.00	0.00	0.00	14,745,103.63	1,755,740.24	40.59890840	-104.58455330
2,500.00	0.00	0.00	2,500.00	0.00	0.00	14,745,103.63	1,755,740.24	40.59890840	-104.58455330
2,600.00	0.00	0.00	2,600.00	0.00	0.00	14,745,103.63	1,755,740.24	40.59890840	-104.58455330
2,700.00	0.00	0.00	2,700.00	0.00	0.00	14,745,103.63	1,755,740.24	40.59890840	-104.58455330
2,800.00	0.00	0.00	2,800.00	0.00	0.00	14,745,103.63	1,755,740.24	40.59890840	-104.58455330
2,900.00	0.00	0.00	2,900.00	0.00	0.00	14,745,103.63	1,755,740.24	40.59890840	-104.58455330
3,000.00	0.00	0.00	3,000.00	0.00	0.00	14,745,103.63	1,755,740.24	40.59890840	-104.58455330
KOP Begin 2°/100' build									
3,100.00	2.00	54.25	3,099.98	1.02	1.42	14,745,104.66	1,755,741.65	40.59891120	-104.58454820
3,200.00	4.00	54.25	3,199.84	4.08	5.66	14,745,107.73	1,755,745.88	40.59891960	-104.58453290
3,300.00	6.00	54.25	3,299.45	9.17	12.74	14,745,112.86	1,755,752.93	40.59893358	-104.58450742
3,400.00	8.00	54.25	3,398.70	16.29	22.63	14,745,120.02	1,755,762.79	40.59895313	-104.58447179
3,500.00	10.00	54.25	3,497.47	25.43	35.32	14,745,129.22	1,755,775.44	40.59897822	-104.58442605
3,600.00	12.00	54.25	3,595.62	36.57	50.81	14,745,140.44	1,755,790.87	40.59900883	-104.58437027
3,602.78	12.06	54.25	3,598.35	36.91	51.28	14,745,140.78	1,755,791.34	40.59900976	-104.58436857
Begin 12.06° tangent									
3,700.00	12.06	54.25	3,693.42	48.77	67.76	14,745,152.72	1,755,807.77	40.59904233	-104.58430921
3,800.00	12.06	54.25	3,791.21	60.98	84.71	14,745,165.01	1,755,824.66	40.59907584	-104.58424814
3,900.00	12.06	54.25	3,889.01	73.18	101.66	14,745,177.29	1,755,841.55	40.59910934	-104.58418708
4,000.00	12.06	54.25	3,986.80	85.38	118.61	14,745,189.57	1,755,858.45	40.59914285	-104.58412601
4,100.00	12.06	54.25	4,084.60	97.58	135.56	14,745,201.85	1,755,875.34	40.59917635	-104.58406495
4,200.00	12.06	54.25	4,182.39	109.79	152.51	14,745,214.13	1,755,892.23	40.59920986	-104.58400388
4,300.00	12.06	54.25	4,280.19	121.99	169.47	14,745,226.42	1,755,909.13	40.59924336	-104.58394282
4,400.00	12.06	54.25	4,377.98	134.19	186.42	14,745,238.70	1,755,926.02	40.59927687	-104.58388175
4,500.00	12.06	54.25	4,475.77	146.39	203.37	14,745,250.98	1,755,942.91	40.59931037	-104.58382069
4,600.00	12.06	54.25	4,573.57	158.59	220.32	14,745,263.26	1,755,959.81	40.59934388	-104.58375962
4,700.00	12.06	54.25	4,671.36	170.80	237.27	14,745,275.54	1,755,976.70	40.59937738	-104.58369856
4,800.00	12.06	54.25	4,769.16	183.00	254.22	14,745,287.83	1,755,993.59	40.59941089	-104.58363749
4,900.00	12.06	54.25	4,866.95	195.20	271.17	14,745,300.11	1,756,010.49	40.59944439	-104.58357643
5,000.00	12.06	54.25	4,964.75	207.40	288.12	14,745,312.39	1,756,027.38	40.59947790	-104.58351536

Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Dotsero 6-09-03L
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 6-09-03L	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	12.06	54.25	5,062.54	219.60	305.07	14,745,324.67	1,756,044.27	40.59951140	-104.58345430
5,200.00	12.06	54.25	5,160.34	231.81	322.03	14,745,336.95	1,756,061.17	40.59954491	-104.58339323
5,300.00	12.06	54.25	5,258.13	244.01	338.98	14,745,349.23	1,756,078.06	40.59957841	-104.58333216
5,400.00	12.06	54.25	5,355.92	256.21	355.93	14,745,361.52	1,756,094.95	40.59961192	-104.58327110
5,500.00	12.06	54.25	5,453.72	268.41	372.88	14,745,373.80	1,756,111.85	40.59964542	-104.58321003
5,600.00	12.06	54.25	5,551.51	280.62	389.83	14,745,386.08	1,756,128.74	40.59967893	-104.58314897
5,700.00	12.06	54.25	5,649.31	292.82	406.78	14,745,398.36	1,756,145.63	40.59971243	-104.58308790
5,800.00	12.06	54.25	5,747.10	305.02	423.73	14,745,410.64	1,756,162.53	40.59974594	-104.58302683
5,900.00	12.06	54.25	5,844.90	317.22	440.68	14,745,422.93	1,756,179.42	40.59977944	-104.58296577
6,000.00	12.06	54.25	5,942.69	329.42	457.63	14,745,435.21	1,756,196.31	40.59981294	-104.58290470
6,100.00	12.06	54.25	6,040.49	341.63	474.59	14,745,447.49	1,756,213.21	40.59984645	-104.58284363
6,200.00	12.06	54.25	6,138.28	353.83	491.54	14,745,459.77	1,756,230.10	40.59987995	-104.58278257
6,300.00	12.06	54.25	6,236.08	366.03	508.49	14,745,472.05	1,756,246.99	40.59991346	-104.58272150
6,400.00	12.06	54.25	6,333.87	378.23	525.44	14,745,484.34	1,756,263.89	40.59994696	-104.58266044
6,500.00	12.06	54.25	6,431.66	390.43	542.39	14,745,496.62	1,756,280.78	40.59998047	-104.58259937
6,600.00	12.06	54.25	6,529.46	402.64	559.34	14,745,508.90	1,756,297.67	40.60001397	-104.58253830
6,627.36	12.06	54.25	6,556.21	405.97	563.98	14,745,512.26	1,756,302.30	40.60002314	-104.58252160
Begin 10°/100' build/turn									
6,700.00	7.63	19.15	6,627.83	414.97	571.73	14,745,521.30	1,756,310.00	40.60004784	-104.58249368
6,800.00	10.49	314.15	6,726.80	427.61	567.37	14,745,533.91	1,756,305.58	40.60008255	-104.58250940
6,900.00	18.99	292.45	6,823.49	440.20	545.74	14,745,546.39	1,756,283.90	40.60011710	-104.58258729
7,000.00	28.46	284.33	6,914.96	452.34	507.52	14,745,558.36	1,756,245.62	40.60015045	-104.58272498
7,100.00	38.19	280.07	6,998.42	463.67	453.86	14,745,569.44	1,756,191.90	40.60018157	-104.58291830
7,200.00	48.02	277.34	7,071.35	473.85	386.39	14,745,579.30	1,756,124.38	40.60020953	-104.58316137
7,300.00	57.89	275.35	7,131.53	482.57	307.15	14,745,587.64	1,756,045.11	40.60023347	-104.58344680
7,400.00	67.79	273.75	7,177.12	489.56	218.57	14,745,594.21	1,755,956.50	40.60025266	-104.58376591
7,500.00	77.70	272.36	7,206.74	494.61	123.32	14,745,598.82	1,755,861.23	40.60026653	-104.58410903
7,600.00	87.62	271.08	7,219.50	497.57	24.31	14,745,601.31	1,755,762.21	40.60027466	-104.58446571
7,623.98	90.00	270.77	7,220.00	497.95	0.34	14,745,601.58	1,755,738.23	40.60027572	-104.58455208
Begin 90.00° lateral									
7,700.00	90.00	270.77	7,220.00	498.98	-75.67	14,745,602.25	1,755,662.22	40.60027853	-104.58482590
7,800.00	90.00	270.77	7,220.00	500.33	-175.66	14,745,603.12	1,755,562.22	40.60028224	-104.58518611
7,900.00	90.00	270.77	7,220.00	501.68	-275.65	14,745,604.00	1,755,462.22	40.60028594	-104.58554632
8,000.00	90.00	270.77	7,220.00	503.03	-375.64	14,745,604.88	1,755,362.23	40.60028964	-104.58590654
8,100.00	90.00	270.77	7,220.00	504.38	-475.63	14,745,605.76	1,755,262.23	40.60029334	-104.58626675
8,200.00	90.00	270.77	7,220.00	505.73	-575.62	14,745,606.63	1,755,162.24	40.60029704	-104.58662696
8,300.00	90.00	270.77	7,220.00	507.08	-675.61	14,745,607.51	1,755,062.24	40.60030074	-104.58698718
8,400.00	90.00	270.77	7,220.00	508.42	-775.61	14,745,608.39	1,754,962.25	40.60030443	-104.58734739
8,500.00	90.00	270.77	7,220.00	509.77	-875.60	14,745,609.26	1,754,862.25	40.60030813	-104.58770760
8,600.00	90.00	270.77	7,220.00	511.12	-975.59	14,745,610.14	1,754,762.25	40.60031182	-104.58806782
8,700.00	90.00	270.77	7,220.00	512.47	-1,075.58	14,745,611.02	1,754,662.26	40.60031552	-104.58842803
8,800.00	90.00	270.77	7,220.00	513.82	-1,175.57	14,745,611.90	1,754,562.26	40.60031921	-104.58878824
8,900.00	90.00	270.77	7,220.00	515.17	-1,275.56	14,745,612.77	1,754,462.27	40.60032290	-104.58914846
9,000.00	90.00	270.77	7,220.00	516.52	-1,375.55	14,745,613.65	1,754,362.27	40.60032659	-104.58950867
9,100.00	90.00	270.77	7,220.00	517.87	-1,475.54	14,745,614.53	1,754,262.27	40.60033028	-104.58986889
9,200.00	90.00	270.77	7,220.00	519.22	-1,575.53	14,745,615.41	1,754,162.28	40.60033396	-104.59022910
9,300.00	90.00	270.77	7,220.00	520.57	-1,675.52	14,745,616.28	1,754,062.28	40.60033765	-104.59058931
9,400.00	90.00	270.77	7,220.00	521.92	-1,775.51	14,745,617.16	1,753,962.29	40.60034134	-104.59094953
9,500.00	90.00	270.77	7,220.00	523.27	-1,875.51	14,745,618.04	1,753,862.29	40.60034502	-104.59130974
9,600.00	90.00	270.77	7,220.00	524.61	-1,975.50	14,745,618.92	1,753,762.29	40.60034870	-104.59166996
9,700.00	90.00	270.77	7,220.00	525.96	-2,075.49	14,745,619.79	1,753,662.30	40.60035238	-104.59203017
9,800.00	90.00	270.77	7,220.00	527.31	-2,175.48	14,745,620.67	1,753,562.30	40.60035606	-104.59239038
9,900.00	90.00	270.77	7,220.00	528.66	-2,275.47	14,745,621.55	1,753,462.31	40.60035974	-104.59275060
10,000.00	90.00	270.77	7,220.00	530.01	-2,375.46	14,745,622.42	1,753,362.31	40.60036342	-104.59311081

Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Dotsero 6-09-03L
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 6-09-03L	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	270.77	7,220.00	531.36	-2,475.45	14,745,623.30	1,753,262.31	40.60036710	-104.59347103
10,200.00	90.00	270.77	7,220.00	532.71	-2,575.44	14,745,624.18	1,753,162.32	40.60037078	-104.59383124
10,300.00	90.00	270.77	7,220.00	534.06	-2,675.43	14,745,625.06	1,753,062.32	40.60037445	-104.59419146
10,400.00	90.00	270.77	7,220.00	535.41	-2,775.42	14,745,625.93	1,752,962.33	40.60037813	-104.59455167
10,500.00	90.00	270.77	7,220.00	536.76	-2,875.41	14,745,626.81	1,752,862.33	40.60038180	-104.59491189
10,600.00	90.00	270.77	7,220.00	538.11	-2,975.41	14,745,627.69	1,752,762.33	40.60038547	-104.59527210
10,700.00	90.00	270.77	7,220.00	539.46	-3,075.40	14,745,628.57	1,752,662.34	40.60038914	-104.59563232
10,800.00	90.00	270.77	7,220.00	540.80	-3,175.39	14,745,629.44	1,752,562.34	40.60039281	-104.59599253
10,900.00	90.00	270.77	7,220.00	542.15	-3,275.38	14,745,630.32	1,752,462.35	40.60039648	-104.59635275
11,000.00	90.00	270.77	7,220.00	543.50	-3,375.37	14,745,631.20	1,752,362.35	40.60040015	-104.59671296
11,100.00	90.00	270.77	7,220.00	544.85	-3,475.36	14,745,632.07	1,752,262.35	40.60040381	-104.59707317
11,200.00	90.00	270.77	7,220.00	546.20	-3,575.35	14,745,632.95	1,752,162.36	40.60040748	-104.59743339
11,300.00	90.00	270.77	7,220.00	547.55	-3,675.34	14,745,633.83	1,752,062.36	40.60041114	-104.59779360
11,400.00	90.00	270.77	7,220.00	548.90	-3,775.33	14,745,634.71	1,751,962.37	40.60041480	-104.59815382
11,500.00	90.00	270.77	7,220.00	550.25	-3,875.32	14,745,635.58	1,751,862.37	40.60041846	-104.59851403
11,600.00	90.00	270.77	7,220.00	551.60	-3,975.31	14,745,636.46	1,751,762.37	40.60042212	-104.59887425
11,700.00	90.00	270.77	7,220.00	552.95	-4,075.30	14,745,637.34	1,751,662.38	40.60042578	-104.59923447
11,800.00	90.00	270.77	7,220.00	554.30	-4,175.30	14,745,638.22	1,751,562.38	40.60042944	-104.59959468
11,900.00	90.00	270.77	7,220.00	555.65	-4,275.29	14,745,639.09	1,751,462.39	40.60043310	-104.59995490
12,000.00	90.00	270.77	7,220.00	556.99	-4,375.28	14,745,639.97	1,751,362.39	40.60043676	-104.60031511
12,100.00	90.00	270.77	7,220.00	558.34	-4,475.27	14,745,640.85	1,751,262.39	40.60044041	-104.60067533
12,200.00	90.00	270.77	7,220.00	559.69	-4,575.26	14,745,641.72	1,751,162.40	40.60044406	-104.60103554
12,300.00	90.00	270.77	7,220.00	561.04	-4,675.25	14,745,642.60	1,751,062.40	40.60044772	-104.60139576
12,400.00	90.00	270.77	7,220.00	562.39	-4,775.24	14,745,643.48	1,750,962.41	40.60045137	-104.60175597
12,500.00	90.00	270.77	7,220.00	563.74	-4,875.23	14,745,644.36	1,750,862.41	40.60045502	-104.60211619
12,600.00	90.00	270.77	7,220.00	565.09	-4,975.22	14,745,645.23	1,750,762.41	40.60045867	-104.60247640
12,700.00	90.00	270.77	7,220.00	566.44	-5,075.21	14,745,646.11	1,750,662.42	40.60046232	-104.60283662
12,800.00	90.00	270.77	7,220.00	567.79	-5,175.20	14,745,646.99	1,750,562.42	40.60046596	-104.60319684
12,900.00	90.00	270.77	7,220.00	569.14	-5,275.20	14,745,647.87	1,750,462.43	40.60046961	-104.60355705
13,000.00	90.00	270.77	7,220.00	570.49	-5,375.19	14,745,648.74	1,750,362.43	40.60047325	-104.60391727
13,100.00	90.00	270.77	7,220.00	571.84	-5,475.18	14,745,649.62	1,750,262.44	40.60047690	-104.60427748
13,200.00	90.00	270.77	7,220.00	573.18	-5,575.17	14,745,650.50	1,750,162.44	40.60048054	-104.60463770
13,300.00	90.00	270.77	7,220.00	574.53	-5,675.16	14,745,651.37	1,750,062.44	40.60048418	-104.60499791
13,400.00	90.00	270.77	7,220.00	575.88	-5,775.15	14,745,652.25	1,749,962.45	40.60048782	-104.60535813
13,500.00	90.00	270.77	7,220.00	577.23	-5,875.14	14,745,653.13	1,749,862.45	40.60049146	-104.60571835
13,600.00	90.00	270.77	7,220.00	578.58	-5,975.13	14,745,654.01	1,749,762.46	40.60049510	-104.60607856
13,700.00	90.00	270.77	7,220.00	579.93	-6,075.12	14,745,654.88	1,749,662.46	40.60049874	-104.60643878
13,800.00	90.00	270.77	7,220.00	581.28	-6,175.11	14,745,655.76	1,749,562.46	40.60050237	-104.60679900
13,900.00	90.00	270.77	7,220.00	582.63	-6,275.10	14,745,656.64	1,749,462.47	40.60050601	-104.60715921
14,000.00	90.00	270.77	7,220.00	583.98	-6,375.10	14,745,657.52	1,749,362.47	40.60050964	-104.60751943
14,100.00	90.00	270.77	7,220.00	585.33	-6,475.09	14,745,658.39	1,749,262.48	40.60051327	-104.60787964
14,200.00	90.00	270.77	7,220.00	586.68	-6,575.08	14,745,659.27	1,749,162.48	40.60051690	-104.60823986
14,300.00	90.00	270.77	7,220.00	588.02	-6,675.07	14,745,660.15	1,749,062.48	40.60052053	-104.60860008
14,400.00	90.00	270.77	7,220.00	589.37	-6,775.06	14,745,661.03	1,748,962.49	40.60052416	-104.60896029
14,500.00	90.00	270.77	7,220.00	590.72	-6,875.05	14,745,661.90	1,748,862.49	40.60052779	-104.60932051
14,600.00	90.00	270.77	7,220.00	592.07	-6,975.04	14,745,662.78	1,748,762.50	40.60053142	-104.60968073
14,700.00	90.00	270.77	7,220.00	593.42	-7,075.03	14,745,663.66	1,748,662.50	40.60053504	-104.61004094
14,800.00	90.00	270.77	7,220.00	594.77	-7,175.02	14,745,664.53	1,748,562.50	40.60053867	-104.61040116
14,900.00	90.00	270.77	7,220.00	596.12	-7,275.01	14,745,665.41	1,748,462.51	40.60054229	-104.61076138
15,000.00	90.00	270.77	7,220.00	597.47	-7,375.00	14,745,666.29	1,748,362.51	40.60054591	-104.61112159
15,100.00	90.00	270.77	7,220.00	598.82	-7,475.00	14,745,667.17	1,748,262.52	40.60054953	-104.61148181
15,200.00	90.00	270.77	7,220.00	600.17	-7,574.99	14,745,668.04	1,748,162.52	40.60055315	-104.61184203
15,300.00	90.00	270.77	7,220.00	601.52	-7,674.98	14,745,668.92	1,748,062.52	40.60055677	-104.61220224
15,400.00	90.00	270.77	7,220.00	602.87	-7,774.97	14,745,669.80	1,747,962.53	40.60056039	-104.61256246
15,500.00	90.00	270.77	7,220.00	604.21	-7,874.96	14,745,670.68	1,747,862.53	40.60056401	-104.61292268

Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Dotsero 6-09-03L
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 6-09-03L	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	270.77	7,220.00	605.56	-7,974.95	14,745,671.55	1,747,762.54	40.60056762	-104.61328290
15,700.00	90.00	270.77	7,220.00	606.91	-8,074.94	14,745,672.43	1,747,662.54	40.60057124	-104.61364311
15,800.00	90.00	270.77	7,220.00	608.26	-8,174.93	14,745,673.31	1,747,562.54	40.60057485	-104.61400333
15,900.00	90.00	270.77	7,220.00	609.61	-8,274.92	14,745,674.18	1,747,462.55	40.60057846	-104.61436355
16,000.00	90.00	270.77	7,220.00	610.96	-8,374.91	14,745,675.06	1,747,362.55	40.60058207	-104.61472376
16,100.00	90.00	270.77	7,220.00	612.31	-8,474.90	14,745,675.94	1,747,262.56	40.60058568	-104.61508398
16,200.00	90.00	270.77	7,220.00	613.66	-8,574.90	14,745,676.82	1,747,162.56	40.60058929	-104.61544420
16,300.00	90.00	270.77	7,220.00	615.01	-8,674.89	14,745,677.69	1,747,062.56	40.60059290	-104.61580442
16,400.00	90.00	270.77	7,220.00	616.36	-8,774.88	14,745,678.57	1,746,962.57	40.60059651	-104.61616463
16,500.00	90.00	270.77	7,220.00	617.71	-8,874.87	14,745,679.45	1,746,862.57	40.60060011	-104.61652485
16,600.00	90.00	270.77	7,220.00	619.06	-8,974.86	14,745,680.33	1,746,762.58	40.60060372	-104.61688507
16,700.00	90.00	270.77	7,220.00	620.40	-9,074.85	14,745,681.20	1,746,662.58	40.60060732	-104.61724529
16,800.00	90.00	270.77	7,220.00	621.75	-9,174.84	14,745,682.08	1,746,562.58	40.60061092	-104.61760550
16,900.00	90.00	270.77	7,220.00	623.10	-9,274.83	14,745,682.96	1,746,462.59	40.60061452	-104.61796572
17,000.00	90.00	270.77	7,220.00	624.45	-9,374.82	14,745,683.83	1,746,362.59	40.60061812	-104.61832594
17,016.52	90.00	270.77	7,220.00	624.67	-9,391.34	14,745,683.98	1,746,346.08	40.60061872	-104.61838543
PBHL/TD 17016.51 MD/7220.00 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 6-09-03L PBHL	0.00	0.00	7,220.00	624.67	-9,391.34	14,745,683.98	1,746,346.08	40.60061872	-104.61838543
- plan hits target center									
- Point									
Dotsero 6-09-03L LP 32	0.00	0.00	7,220.00	497.95	0.34	14,745,601.58	1,755,738.23	40.60027572	-104.58455208
- 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 2°/100' build
3,602.78	3,598.35	36.91	51.28	Begin 12.06° tangent
6,627.36	6,556.21	405.97	563.98	Begin 10°/100' build/turn
7,623.98	7,220.00	497.95	0.34	Begin 90.00° lateral
17,016.52	7,220.00	624.67	-9,391.34	PBHL/TD 17016.51 MD/7220.00 TVD