

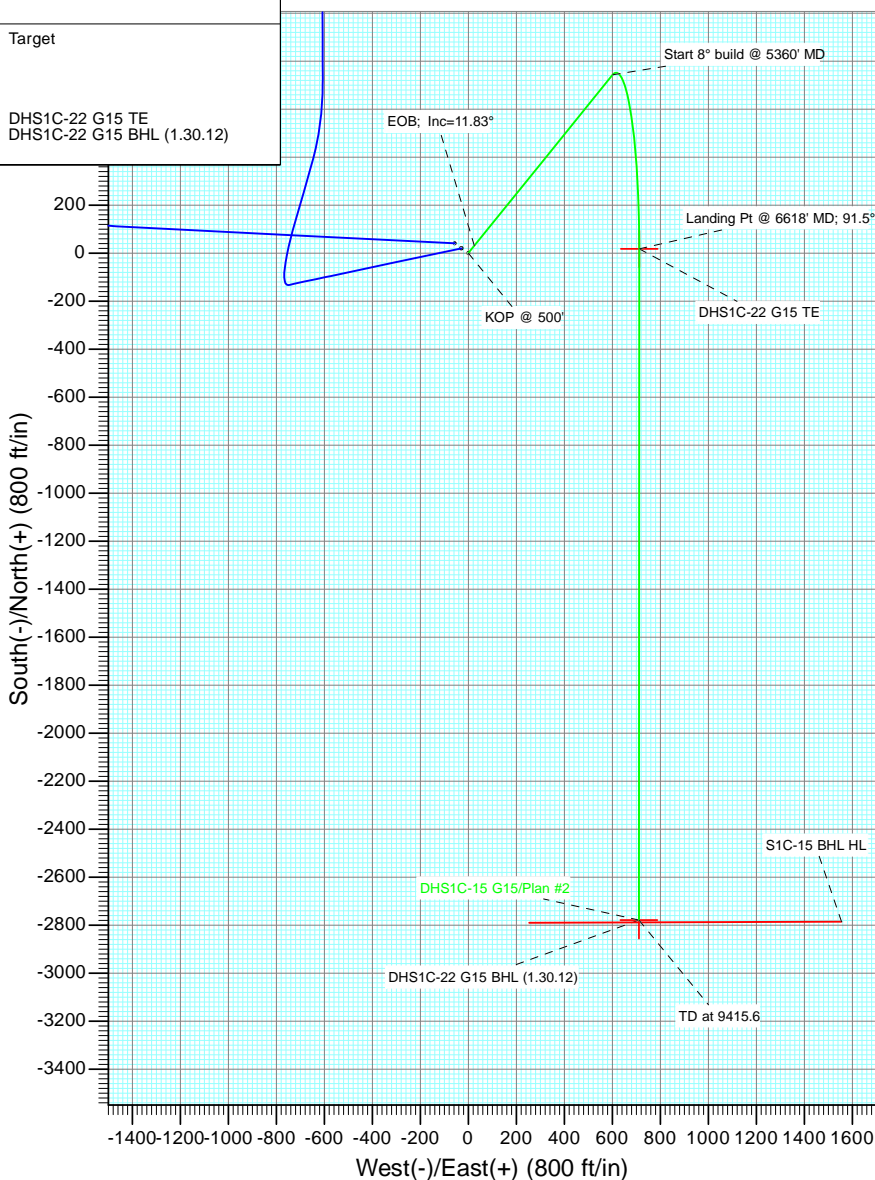
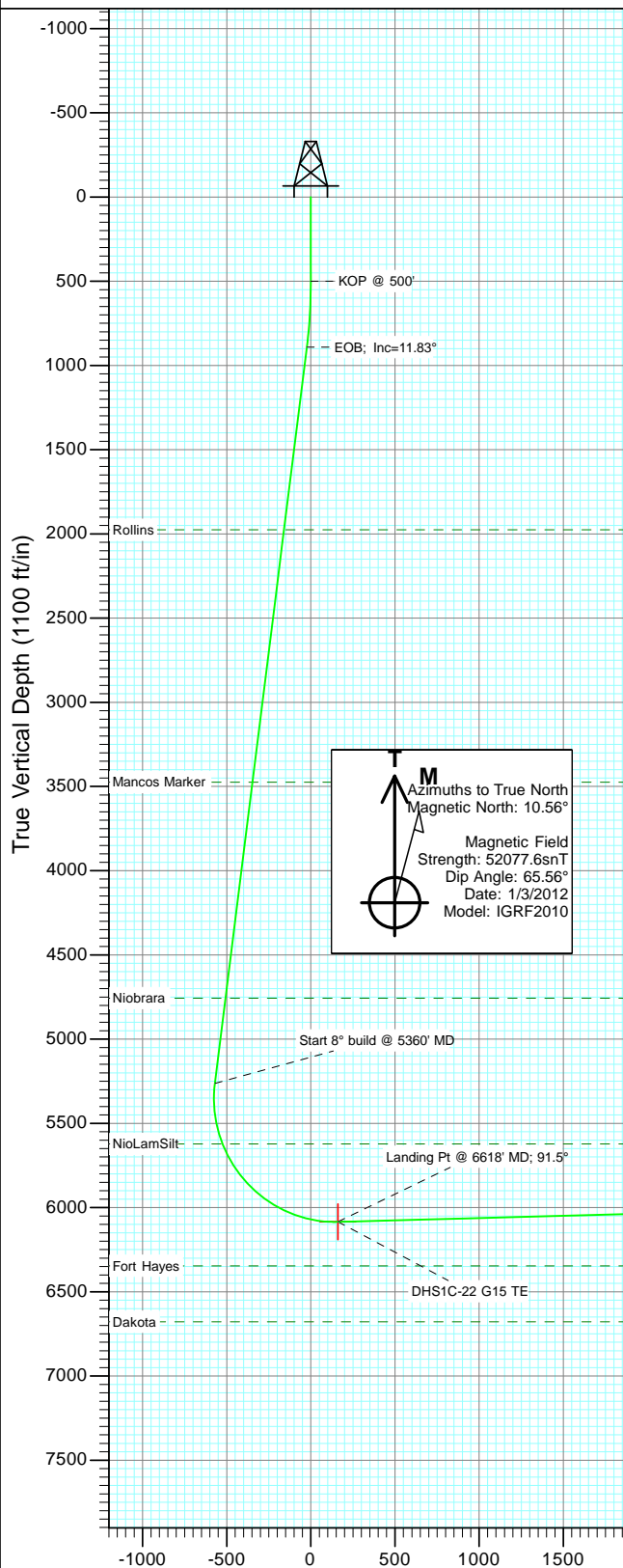


Project: North Piceance
Site: G15 Pad 7101
Well: DHS1C-15 G15
Wellbore: DD
Design: Plan #2



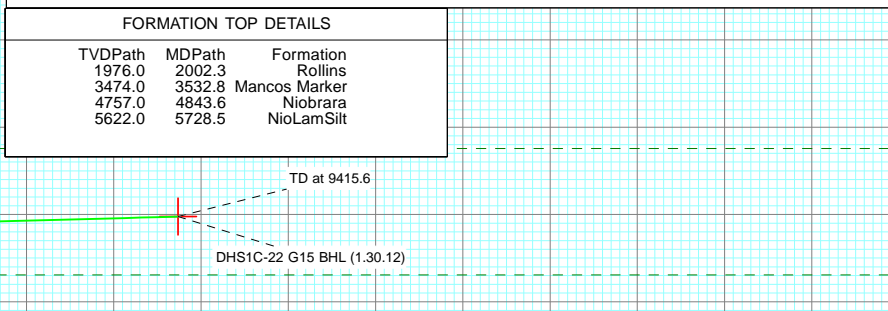
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0	
3	894.2	11.83	38.99	891.4	31.5	25.5	3.00	38.99	-24.2	
4	5360.0	11.83	38.99	5262.4	742.9	601.4	0.00	0.00	-570.7	
5	6618.1	91.50	180.03	6085.0	17.2	712.3	8.00	140.24	159.8	DHS1C-22 G15 TE
6	9415.6	91.50	180.03	6012.0	-2779.3	710.8	0.00	0.00	2868.7	DHS1C-22 G15 BHL (1.30.12)



FORMATION TOP DETAILS

TVDPATH	MDPATH	FORMATION
1976.0	2002.3	Rollins
3474.0	3532.8	Mancos Marker
4757.0	4843.6	Niobrara
5622.0	5728.5	NioLamSilt



Type	Target	No Target (Freehand)	Azimuth	Origin Type	N/S	E/W	From TVD
TD			165.65	Slot	0.0	0.0	0.0
Name							
DHS1C-22 G15 BHL (1.30.12)							
DHS1C-22 G15 TE							

Vertical Section at 165.65° (1100 ft/in)

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well DHS1C-15 G15
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	22' KB @ 6399.0ft (Original Well Elev)
Project:	North Piceance	MD Reference:	22' KB @ 6399.0ft (Original Well Elev)
Site:	G15 Pad 7101	North Reference:	True
Well:	DHS1C-15 G15	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #2		

Project	North Piceance		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site		G15 Pad 7101			
Site Position:		Northing:	1,602,914.87 ft	Latitude:	39° 26' 47.49 N
From:	Lat/Long	Easting:	2,111,642.16 ft	Longitude:	108° 38' 47.04 W
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	-1.98 °

Well	DHS1C-15 G15					
Well Position	+N/-S	0.0 ft	Northing:	1,602,914.85 ft	Latitude:	39° 26' 47.49 N
	+E/-W	0.0 ft	Easting:	2,111,642.16 ft	Longitude:	108° 38' 47.04 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	6,377.0 ft

Wellbore	DD				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/3/2012	10.56	65.56	52,078

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	165.65

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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
894.2	11.83	38.99	891.4	31.5	25.5	3.00	3.00	0.00	38.99	
5,360.0	11.83	38.99	5,262.4	742.9	601.4	0.00	0.00	0.00	0.00	
6,618.1	91.50	180.03	6,085.0	17.2	712.3	8.00	6.33	11.21	140.24	DHS1C-22 G15 TE
9,415.6	91.50	180.03	6,012.0	-2,779.3	710.8	0.00	0.00	0.00	0.00	DHS1C-22 G15 BHL

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well DHS1C-15 G15
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	22' KB @ 6399.0ft (Original Well Elev)
Project:	North Piceance	MD Reference:	22' KB @ 6399.0ft (Original Well Elev)
Site:	G15 Pad 7101	North Reference:	True
Well:	DHS1C-15 G15	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #2		

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)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	KOP @ 500'
600.0	3.00	38.99	600.0	2.0	1.6	-1.6	3.00	3.00	
700.0	6.00	38.99	699.6	8.1	6.6	-6.2	3.00	3.00	
800.0	9.00	38.99	798.8	18.3	14.8	-14.0	3.00	3.00	
894.2	11.83	38.99	891.4	31.5	25.5	-24.2	3.00	3.00	EOB; Inc=11.83°
900.0	11.83	38.99	897.1	32.4	26.3	-24.9	0.00	0.00	
1,000.0	11.83	38.99	995.0	48.4	39.2	-37.2	0.00	0.00	
1,100.0	11.83	38.99	1,092.8	64.3	52.0	-49.4	0.00	0.00	
1,200.0	11.83	38.99	1,190.7	80.2	64.9	-61.6	0.00	0.00	
1,300.0	11.83	38.99	1,288.6	96.1	77.8	-73.9	0.00	0.00	
1,400.0	11.83	38.99	1,386.5	112.1	90.7	-86.1	0.00	0.00	
1,500.0	11.83	38.99	1,484.3	128.0	103.6	-98.3	0.00	0.00	
1,600.0	11.83	38.99	1,582.2	143.9	116.5	-110.6	0.00	0.00	
1,700.0	11.83	38.99	1,680.1	159.9	129.4	-122.8	0.00	0.00	
1,800.0	11.83	38.99	1,778.0	175.8	142.3	-135.0	0.00	0.00	
1,900.0	11.83	38.99	1,875.9	191.7	155.2	-147.3	0.00	0.00	
2,000.0	11.83	38.99	1,973.7	207.6	168.1	-159.5	0.00	0.00	
2,002.3	11.83	38.99	1,976.0	208.0	168.4	-159.8	0.00	0.00	Rollins
2,100.0	11.83	38.99	2,071.6	223.6	181.0	-171.8	0.00	0.00	
2,200.0	11.83	38.99	2,169.5	239.5	193.9	-184.0	0.00	0.00	
2,300.0	11.83	38.99	2,267.4	255.4	206.8	-196.2	0.00	0.00	
2,400.0	11.83	38.99	2,365.2	271.4	219.7	-208.5	0.00	0.00	
2,500.0	11.83	38.99	2,463.1	287.3	232.6	-220.7	0.00	0.00	
2,600.0	11.83	38.99	2,561.0	303.2	245.5	-232.9	0.00	0.00	
2,700.0	11.83	38.99	2,658.9	319.2	258.4	-245.2	0.00	0.00	
2,800.0	11.83	38.99	2,756.8	335.1	271.3	-257.4	0.00	0.00	
2,900.0	11.83	38.99	2,854.6	351.0	284.2	-269.7	0.00	0.00	
3,000.0	11.83	38.99	2,952.5	366.9	297.1	-281.9	0.00	0.00	
3,100.0	11.83	38.99	3,050.4	382.9	310.0	-294.1	0.00	0.00	
3,200.0	11.83	38.99	3,148.3	398.8	322.8	-306.4	0.00	0.00	
3,300.0	11.83	38.99	3,246.1	414.7	335.7	-318.6	0.00	0.00	
3,400.0	11.83	38.99	3,344.0	430.7	348.6	-330.8	0.00	0.00	
3,500.0	11.83	38.99	3,441.9	446.6	361.5	-343.1	0.00	0.00	
3,532.8	11.83	38.99	3,474.0	451.8	365.8	-347.1	0.00	0.00	Mancos Marker
3,600.0	11.83	38.99	3,539.8	462.5	374.4	-355.3	0.00	0.00	
3,700.0	11.83	38.99	3,637.6	478.4	387.3	-367.6	0.00	0.00	
3,800.0	11.83	38.99	3,735.5	494.4	400.2	-379.8	0.00	0.00	
3,900.0	11.83	38.99	3,833.4	510.3	413.1	-392.0	0.00	0.00	
4,000.0	11.83	38.99	3,931.3	526.2	426.0	-404.3	0.00	0.00	
4,100.0	11.83	38.99	4,029.2	542.2	438.9	-416.5	0.00	0.00	
4,200.0	11.83	38.99	4,127.0	558.1	451.8	-428.7	0.00	0.00	
4,300.0	11.83	38.99	4,224.9	574.0	464.7	-441.0	0.00	0.00	
4,400.0	11.83	38.99	4,322.8	589.9	477.6	-453.2	0.00	0.00	
4,500.0	11.83	38.99	4,420.7	605.9	490.5	-465.5	0.00	0.00	
4,600.0	11.83	38.99	4,518.5	621.8	503.4	-477.7	0.00	0.00	
4,700.0	11.83	38.99	4,616.4	637.7	516.3	-489.9	0.00	0.00	
4,800.0	11.83	38.99	4,714.3	653.7	529.2	-502.2	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well DHS1C-15 G15
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	22' KB @ 6399.0ft (Original Well Elev)
Project:	North Piceance	MD Reference:	22' KB @ 6399.0ft (Original Well Elev)
Site:	G15 Pad 7101	North Reference:	True
Well:	DHS1C-15 G15	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #2		

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)	Comments / Formations
4,843.6	11.83	38.99	4,757.0	660.6	534.8	-507.5	0.00	0.00	Niobrara
4,900.0	11.83	38.99	4,812.2	669.6	542.1	-514.4	0.00	0.00	
5,000.0	11.83	38.99	4,910.1	685.5	555.0	-526.6	0.00	0.00	
5,100.0	11.83	38.99	5,007.9	701.4	567.9	-538.9	0.00	0.00	
5,200.0	11.83	38.99	5,105.8	717.4	580.8	-551.1	0.00	0.00	
5,300.0	11.83	38.99	5,203.7	733.3	593.7	-563.4	0.00	0.00	
5,360.0	11.83	38.99	5,262.4	742.9	601.4	-570.7	0.00	0.00	Start 8° build @ 5360' MD
5,400.0	9.58	51.38	5,301.7	748.1	606.6	-574.5	8.00	-5.60	
5,500.0	7.81	105.16	5,400.7	751.6	619.7	-574.6	8.00	-1.78	
5,600.0	12.54	143.37	5,499.2	741.0	632.7	-561.2	8.00	4.74	
5,700.0	19.52	157.93	5,595.3	716.8	645.5	-534.5	8.00	6.97	
5,728.5	21.63	160.36	5,622.0	707.5	649.0	-524.6	8.00	7.42	NioLamSilt
5,800.0	27.05	164.83	5,687.1	679.3	657.7	-495.2	8.00	7.58	
5,900.0	34.78	168.86	5,772.9	629.3	669.2	-443.9	8.00	7.73	
6,000.0	42.60	171.57	5,850.9	567.7	679.7	-381.6	8.00	7.82	
6,100.0	50.47	173.57	5,919.6	495.8	689.0	-309.7	8.00	7.87	
6,200.0	58.37	175.16	5,977.7	415.0	696.9	-229.3	8.00	7.89	
6,300.0	66.28	176.50	6,024.2	326.7	703.3	-142.3	8.00	7.91	
6,400.0	74.20	177.69	6,057.9	232.8	708.1	-50.1	8.00	7.92	
6,500.0	82.13	178.79	6,078.4	135.0	711.1	45.3	8.00	7.93	
6,600.0	90.06	179.84	6,085.2	35.4	712.3	142.2	8.00	7.93	
6,618.1	91.50	180.03	6,085.0	17.2	712.3	159.8	8.00	7.93	Landing Pt @ 6618' MD; 91.5° - DHS1C-22 G15
6,700.0	91.50	180.03	6,082.9	-64.6	712.2	239.1	0.00	0.00	
6,800.0	91.50	180.03	6,080.3	-164.6	712.2	335.9	0.00	0.00	
6,900.0	91.50	180.03	6,077.6	-264.5	712.1	432.7	0.00	0.00	
7,000.0	91.50	180.03	6,075.0	-364.5	712.1	529.6	0.00	0.00	
7,100.0	91.50	180.03	6,072.4	-464.5	712.0	626.4	0.00	0.00	
7,200.0	91.50	180.03	6,069.8	-564.4	712.0	723.2	0.00	0.00	
7,300.0	91.50	180.03	6,067.2	-664.4	711.9	820.1	0.00	0.00	
7,400.0	91.50	180.03	6,064.6	-764.4	711.9	916.9	0.00	0.00	
7,500.0	91.50	180.03	6,062.0	-864.3	711.8	1,013.7	0.00	0.00	
7,600.0	91.50	180.03	6,059.4	-964.3	711.8	1,110.6	0.00	0.00	
7,700.0	91.50	180.03	6,056.8	-1,064.3	711.7	1,207.4	0.00	0.00	
7,800.0	91.50	180.03	6,054.2	-1,164.2	711.6	1,304.3	0.00	0.00	
7,900.0	91.50	180.03	6,051.5	-1,264.2	711.6	1,401.1	0.00	0.00	
8,000.0	91.50	180.03	6,048.9	-1,364.2	711.5	1,497.9	0.00	0.00	
8,100.0	91.50	180.03	6,046.3	-1,464.1	711.5	1,594.8	0.00	0.00	
8,200.0	91.50	180.03	6,043.7	-1,564.1	711.4	1,691.6	0.00	0.00	
8,300.0	91.50	180.03	6,041.1	-1,664.1	711.4	1,788.4	0.00	0.00	
8,400.0	91.50	180.03	6,038.5	-1,764.0	711.3	1,885.3	0.00	0.00	
8,500.0	91.50	180.03	6,035.9	-1,864.0	711.3	1,982.1	0.00	0.00	
8,600.0	91.50	180.03	6,033.3	-1,964.0	711.2	2,078.9	0.00	0.00	
8,700.0	91.50	180.03	6,030.7	-2,063.9	711.2	2,175.8	0.00	0.00	
8,800.0	91.50	180.03	6,028.1	-2,163.9	711.1	2,272.6	0.00	0.00	
8,900.0	91.50	180.03	6,025.5	-2,263.9	711.1	2,369.4	0.00	0.00	
9,000.0	91.50	180.03	6,022.8	-2,363.8	711.0	2,466.3	0.00	0.00	
9,100.0	91.50	180.03	6,020.2	-2,463.8	711.0	2,563.1	0.00	0.00	
9,200.0	91.50	180.03	6,017.6	-2,563.8	710.9	2,660.0	0.00	0.00	
9,300.0	91.50	180.03	6,015.0	-2,663.7	710.8	2,756.8	0.00	0.00	
9,400.0	91.50	180.03	6,012.4	-2,763.7	710.8	2,853.6	0.00	0.00	
9,415.6	91.50	180.03	6,012.0	-2,779.3	710.8	2,868.7	0.00	0.00	TD at 9415.6 - DHS1C-22 G15 BHL (1.30.12)

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well DHS1C-15 G15
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	22' KB @ 6399.0ft (Original Well Elev)
Project:	North Piceance	MD Reference:	22' KB @ 6399.0ft (Original Well Elev)
Site:	G15 Pad 7101	North Reference:	True
Well:	DHS1C-15 G15	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #2		

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
DHS1C-22 G15 BHL (1.: - plan hits target center - Point	0.00	358.02	6,012.0	-2,779.3	710.8	1,600,112.62	2,112,256.27	39° 26' 20.02 N	108° 38' 37.98 W
DHS1C-22 G15 TE - plan hits target center - Point	0.00	358.02	6,085.0	17.2	712.3	1,602,907.40	2,112,354.60	39° 26' 47.66 N	108° 38' 37.96 W

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,002.3	1,976.0	Rollins		0.00	
3,532.8	3,474.0	Mancos Marker		0.00	
4,843.6	4,757.0	Niobrara		0.00	
5,728.5	5,622.0	NioLamSilt		0.00	

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
500.0	500.0	0.0	0.0	KOP @ 500'
894.2	891.4	31.5	25.5	EOB; Inc=11.83°
5,360.0	5,262.4	742.9	601.4	Start 8° build @ 5360' MD
6,618.1	6,085.0	17.2	712.3	Landing Pt @ 6618' MD; 91.5°
9,415.6	6,012.0	-2,779.3	710.8	TD at 9415.6