

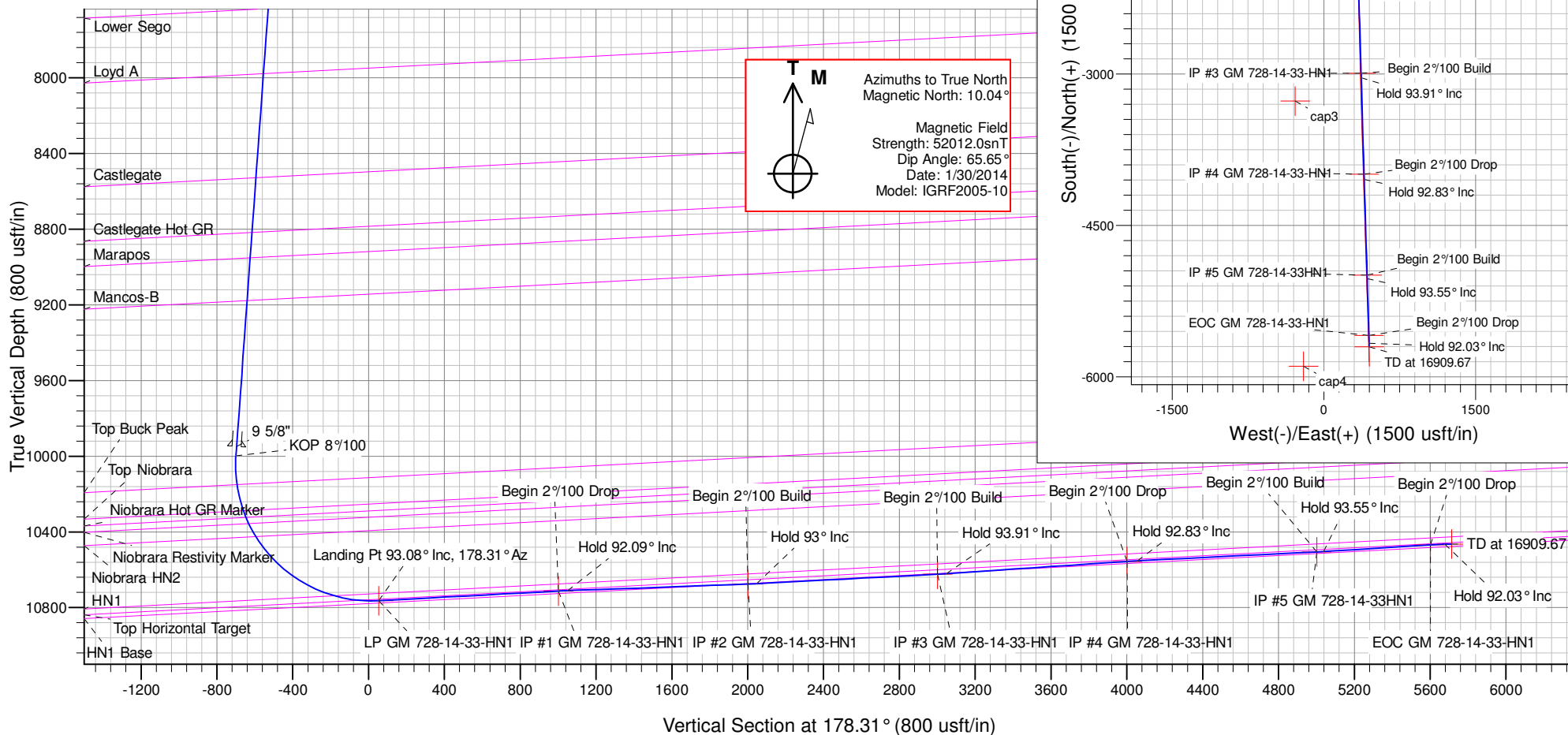


Well Name: GM 728-14-33-HN1  
Surface Location: GR 14-28 Pad  
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone  
Ground Elevation: 5518.00  
+N/-S +E/-W Northing Easting Latitude Longitude Slot  
0.01 0.24 1613833.25 2260206.60 39.48944 -108.12164 A03  
KELLY BUSHING @ 5551.00usft (Original Well Elev)

Project: GV 28-06S-096W  
Site: GR 14-28 Pad  
Well: GM 728-14-33-HN1  
Plan #5 28Mar14 kjs

#### ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
150.00	150.00	0.00	0.00	0.01	0.24	0.00	0.00	Start Build 2.00
368.66	368.87	4.38	18.58	7.93	2.90	-7.84	8.36	Hold 4.38° Inc, 18.58° Az
9997.86	10026.24	4.38	18.58	706.60	237.82	-699.28	745.47	KOP 8°/100
10764.00	11241.03	93.08	178.31	-45.24	281.50	53.52	1504.29	Landing Pt 93.08° Inc, 178.31° Az
10713.00	12190.70	93.08	178.31	-993.13	309.48	1001.82	2452.59	Begin 2°/100 Drop
10710.78	12239.88	92.09	178.31	-1042.23	310.93	1050.95	2501.72	Hold 92.09° Inc
10676.00	13191.40	92.09	178.31	-1992.70	338.98	2001.84	3452.60	Begin 2°/100 Build
10674.00	13236.51	93.00	178.31	-2037.75	340.31	2046.90	3497.67	Hold 93° Inc
10624.00	14192.74	93.00	178.31	-2992.26	368.48	3001.82	4452.59	Begin 2°/100 Build
10621.25	14238.44	93.91	178.31	-3037.85	369.83	3047.44	4498.21	Hold 93.91° Inc
10556.00	15195.06	93.91	178.31	-3991.83	397.98	4001.83	5452.60	Begin 2°/100 Drop
10552.83	15248.94	92.83	178.31	-4045.59	399.57	4055.62	5506.38	Hold 92.83° Inc
10506.00	16196.31	92.83	178.31	-4991.39	427.48	5001.83	6452.60	Begin 2°/100 Build
10504.00	16232.26	93.55	178.31	-5027.27	428.54	5037.73	6488.49	Hold 93.55° Inc
10469.00	16797.07	93.55	178.31	-5590.75	445.12	5601.45	7052.21	Begin 2°/100 Drop
10465.30	16873.12	92.03	178.31	-5666.68	447.36	5677.41	7128.17	Hold 92.03° Inc
10464.00	16909.67	92.03	178.31	-5703.19	448.44	5713.93	7164.70	TD at 16909.67



# **PICEANCE VLY NAD 83**

**GV 28-06S-096W**

**GR 14-28 Pad**

**GM 728-14-33-HN1 - Slot A03**

**Wellbore #1**

**Plan: Plan #5 28Mar14 kjs**

## **Standard Planning Report - Geographic**

**28 March, 2014**

**WPX**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well GM 728-14-33-HN1 - Slot A03
<b>Company:</b>	PICEANCE VLY NAD 83	<b>TVD Reference:</b>	KELLY BUSHING @ 5551.00usft (Original Well Elev)
<b>Project:</b>	GV 28-06S-096W	<b>MD Reference:</b>	KELLY BUSHING @ 5551.00usft (Original Well Elev)
<b>Site:</b>	GR 14-28 Pad	<b>North Reference:</b>	True
<b>Well:</b>	GM 728-14-33-HN1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #5 28Mar14 kjs		

<b>Project</b>	GV 28-06S-096W, 28-06S-096W		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Central Zone		Using geodetic scale factor

Site		GR 14-28 Pad			
Site Position:		Northing:	1,613,823.20 usft	Latitude:	39.48942
From:	Map	Easting:	2,260,217.80 usft	Longitude:	-108.12160
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	-1.65 °

Well	GM 728-14-33-HN1 - Slot A03					
Well Position	+N/-S	0.01 usft	Northing:	1,613,833.25 usft	Latitude:	39.48944
	+E/-W	0.24 usft	Easting:	2,260,206.60 usft	Longitude:	-108.12164
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	5,518.00 usft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2005-10	1/30/2014	10.04	65.65	52,012

<b>Design</b>	Plan #5 28Mar14 kjs			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.00	0.01	0.24	178.31

**WPX**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well GM 728-14-33-HN1 - Slot A03
<b>Company:</b>	PICEANCE VLY NAD 83	<b>TVD Reference:</b>	KELLY BUSHING @ 5551.00usft (Original Well Elev)
<b>Project:</b>	GV 28-06S-096W	<b>MD Reference:</b>	KELLY BUSHING @ 5551.00usft (Original Well Elev)
<b>Site:</b>	GR 14-28 Pad	<b>North Reference:</b>	True
<b>Well:</b>	GM 728-14-33-HN1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #5 28Mar14 kjs		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.01	0.24	0.00	0.00	0.00	0.00	
150.00	0.00	0.00	150.00	0.01	0.24	0.00	0.00	0.00	0.00	
368.87	4.38	18.58	368.66	7.93	2.90	2.00	2.00	0.00	18.58	
10,026.24	4.38	18.58	9,997.86	706.60	237.82	0.00	0.00	0.00	0.00	
11,241.03	93.08	178.31	10,764.00	-45.24	281.50	8.00	7.30	13.15	159.59	LP GM 728-14-33-HN
12,190.70	93.08	178.31	10,713.00	-993.13	309.48	0.00	0.00	0.00	0.00	IP #1 GM 728-14-33-I
12,239.89	92.09	178.31	10,710.78	-1,042.24	310.93	2.00	-2.00	0.00	179.99	
13,191.40	92.09	178.31	10,676.00	-1,992.70	338.98	0.00	0.00	0.00	0.00	IP #2 GM 728-14-33-I
13,236.51	93.00	178.31	10,674.00	-2,037.75	340.31	2.00	2.00	0.00	0.00	
14,192.74	93.00	178.31	10,624.00	-2,992.26	368.48	0.00	0.00	0.00	0.00	IP #3 GM 728-14-33-I
14,238.44	93.91	178.31	10,621.25	-3,037.85	369.83	2.00	2.00	0.00	0.00	
15,195.06	93.91	178.31	10,556.00	-3,991.83	397.98	0.00	0.00	0.00	0.00	IP #4 GM 728-14-33-I
15,248.94	92.83	178.31	10,552.83	-4,045.59	399.57	2.00	-2.00	0.00	-180.00	
16,196.31	92.83	178.31	10,506.00	-4,991.39	427.48	0.00	0.00	0.00	0.00	IP #5 GM 728-14-33-I
16,232.26	93.55	178.31	10,504.00	-5,027.27	428.54	2.00	2.00	0.01	0.38	
16,797.07	93.55	178.31	10,469.00	-5,590.75	445.12	0.00	0.00	0.00	0.00	EOC GM 728-14-33-I
16,873.12	92.03	178.31	10,465.30	-5,666.68	447.36	2.00	-2.00	-0.01	-179.68	
16,909.67	92.03	178.31	10,464.00	-5,703.19	448.44	0.00	0.00	0.00	0.00	TD / PBHL GM 728-14-33-I

**WPX**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well GM 728-14-33-HN1 - Slot A03
<b>Company:</b>	PICEANCE VLY NAD 83	<b>TVD Reference:</b>	KELLY BUSHING @ 5551.00usft (Original Well Elev)
<b>Project:</b>	GV 28-06S-096W	<b>MD Reference:</b>	KELLY BUSHING @ 5551.00usft (Original Well Elev)
<b>Site:</b>	GR 14-28 Pad	<b>North Reference:</b>	True
<b>Well:</b>	GM 728-14-33-HN1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #5 28Mar14 kjs		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.01	0.24	1,613,833.25	2,260,206.60	39.48944	-108.12164
<b>cap4 - cap2 - cap3</b>									
150.00	0.00	0.00	150.00	0.01	0.24	1,613,833.25	2,260,206.60	39.48944	-108.12164
<b>Start Build 2.00</b>									
200.00	1.00	18.58	200.00	0.42	0.38	1,613,833.66	2,260,206.75	39.48944	-108.12164
368.87	4.38	18.58	368.66	7.93	2.90	1,613,841.09	2,260,209.49	39.48946	-108.12163
<b>Hold 4.38° Inc, 18.58° Az</b>									
400.00	4.38	18.58	399.70	10.18	3.66	1,613,843.32	2,260,210.31	39.48947	-108.12163
600.00	4.38	18.58	599.11	24.65	8.52	1,613,857.64	2,260,215.59	39.48951	-108.12161
800.00	4.38	18.58	798.53	39.12	13.39	1,613,871.96	2,260,220.87	39.48955	-108.12159
1,000.00	4.38	18.58	997.95	53.59	18.25	1,613,886.28	2,260,226.15	39.48959	-108.12158
1,200.00	4.38	18.58	1,197.36	68.06	23.12	1,613,900.61	2,260,231.43	39.48963	-108.12156
1,400.00	4.38	18.58	1,396.78	82.53	27.98	1,613,914.93	2,260,236.71	39.48967	-108.12154
1,600.00	4.38	18.58	1,596.20	97.00	32.85	1,613,929.25	2,260,241.99	39.48971	-108.12152
1,800.00	4.38	18.58	1,795.61	111.47	37.71	1,613,943.57	2,260,247.28	39.48975	-108.12151
2,000.00	4.38	18.58	1,995.03	125.93	42.58	1,613,957.90	2,260,252.56	39.48979	-108.12149
2,200.00	4.38	18.58	2,194.45	140.40	47.44	1,613,972.22	2,260,257.84	39.48983	-108.12147
2,400.00	4.38	18.58	2,393.86	154.87	52.31	1,613,986.54	2,260,263.12	39.48987	-108.12146
2,476.77	4.38	18.58	2,470.41	160.43	54.18	1,613,992.04	2,260,265.14	39.48988	-108.12145
<b>Base Fort Union</b>									
2,600.00	4.38	18.58	2,593.28	169.34	57.17	1,614,000.86	2,260,268.40	39.48991	-108.12144
2,618.78	4.38	18.58	2,612.00	170.70	57.63	1,614,002.21	2,260,268.89	39.48991	-108.12144
<b>13 3/8"</b>									
2,800.00	4.38	18.58	2,792.70	183.81	62.04	1,614,015.18	2,260,273.68	39.48995	-108.12142
3,000.00	4.38	18.58	2,992.11	198.28	66.91	1,614,029.51	2,260,278.96	39.48999	-108.12140
3,200.00	4.38	18.58	3,191.53	212.75	71.77	1,614,043.83	2,260,284.24	39.49003	-108.12139
3,400.00	4.38	18.58	3,390.95	227.22	76.64	1,614,058.15	2,260,289.52	39.49007	-108.12137
3,440.24	4.38	18.58	3,431.07	230.13	77.61	1,614,061.03	2,260,290.58	39.49007	-108.12137
<b>Mesaverde</b>									
3,600.00	4.38	18.58	3,590.36	241.69	81.50	1,614,072.47	2,260,294.80	39.49011	-108.12135
3,800.00	4.38	18.58	3,789.78	256.16	86.37	1,614,086.80	2,260,300.08	39.49015	-108.12133
4,000.00	4.38	18.58	3,989.19	270.63	91.23	1,614,101.12	2,260,305.36	39.49019	-108.12132
4,200.00	4.38	18.58	4,188.61	285.10	96.10	1,614,115.44	2,260,310.64	39.49023	-108.12130
4,400.00	4.38	18.58	4,388.03	299.57	100.96	1,614,129.76	2,260,315.92	39.49027	-108.12128
4,600.00	4.38	18.58	4,587.44	314.04	105.83	1,614,144.09	2,260,321.20	39.49030	-108.12127
4,644.32	4.38	18.58	4,631.63	317.24	106.90	1,614,147.26	2,260,322.37	39.49031	-108.12126
<b>Approx. Top Gas</b>									
4,800.00	4.38	18.58	4,786.86	328.50	110.69	1,614,158.41	2,260,326.48	39.49034	-108.12125
5,000.00	4.38	18.58	4,986.28	342.97	115.56	1,614,172.73	2,260,331.76	39.49038	-108.12123
5,200.00	4.38	18.58	5,185.69	357.44	120.42	1,614,187.05	2,260,337.04	39.49042	-108.12121
5,400.00	4.38	18.58	5,385.11	371.91	125.29	1,614,201.37	2,260,342.32	39.49046	-108.12120
5,600.00	4.38	18.58	5,584.53	386.38	130.15	1,614,215.70	2,260,347.60	39.49050	-108.12118
5,800.00	4.38	18.58	5,783.94	400.85	135.02	1,614,230.02	2,260,352.88	39.49054	-108.12116
6,000.00	4.38	18.58	5,983.36	415.32	139.88	1,614,244.34	2,260,358.16	39.49058	-108.12114
6,062.84	4.38	18.58	6,046.02	419.87	141.41	1,614,248.84	2,260,359.82	39.49060	-108.12114
<b>Cameo Coals</b>									
6,200.00	4.38	18.58	6,182.78	429.79	144.75	1,614,258.66	2,260,363.44	39.49062	-108.12113
6,400.00	4.38	18.58	6,382.19	444.26	149.61	1,614,272.99	2,260,368.72	39.49066	-108.12111
6,591.39	4.38	18.58	6,573.02	458.10	154.27	1,614,286.69	2,260,373.78	39.49070	-108.12109
<b>Rollins SS</b>									
6,600.00	4.38	18.58	6,581.61	458.73	154.48	1,614,287.31	2,260,374.00	39.49070	-108.12109
6,800.00	4.38	18.58	6,781.03	473.20	159.34	1,614,301.63	2,260,379.28	39.49074	-108.12108

**WPX**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well GM 728-14-33-HN1 - Slot A03
<b>Company:</b>	PICEANCE VLY NAD 83	<b>TVD Reference:</b>	KELLY BUSHING @ 5551.00usft (Original Well Elev)
<b>Project:</b>	GV 28-06S-096W	<b>MD Reference:</b>	KELLY BUSHING @ 5551.00usft (Original Well Elev)
<b>Site:</b>	GR 14-28 Pad	<b>North Reference:</b>	True
<b>Well:</b>	GM 728-14-33-HN1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #5 28Mar14 kjs		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
6,833.01	4.38	18.58	6,813.94	475.59	160.14	1,614,303.99	2,260,380.15	39.49075	-108.12107	
<b>Cozzette</b>										
7,000.00	4.38	18.58	6,980.44	487.67	164.21	1,614,315.95	2,260,384.56	39.49078	-108.12106	
7,119.93	4.38	18.58	7,100.03	496.34	167.12	1,614,324.54	2,260,387.73	39.49081	-108.12105	
<b>Corcoran</b>										
7,200.00	4.38	18.58	7,179.86	502.14	169.07	1,614,330.28	2,260,389.84	39.49082	-108.12104	
7,273.97	4.38	18.58	7,253.61	507.49	170.87	1,614,335.57	2,260,391.80	39.49084	-108.12104	
<b>Upper Sego</b>										
7,400.00	4.38	18.58	7,379.28	516.61	173.94	1,614,344.60	2,260,395.12	39.49086	-108.12102	
7,600.00	4.38	18.58	7,578.69	531.07	178.80	1,614,358.92	2,260,400.40	39.49090	-108.12101	
7,654.52	4.38	18.58	7,633.05	535.02	180.13	1,614,362.82	2,260,401.84	39.49091	-108.12100	
<b>Lower Sego</b>										
7,800.00	4.38	18.58	7,778.11	545.54	183.67	1,614,373.24	2,260,405.68	39.49094	-108.12099	
8,000.00	4.38	18.58	7,977.53	560.01	188.53	1,614,387.56	2,260,410.96	39.49098	-108.12097	
8,000.84	4.38	18.58	7,978.37	560.07	188.55	1,614,387.62	2,260,410.99	39.49098	-108.12097	
<b>Loyd A</b>										
8,200.00	4.38	18.58	8,176.94	574.48	193.40	1,614,401.89	2,260,416.25	39.49102	-108.12096	
8,400.00	4.38	18.58	8,376.36	588.95	198.26	1,614,416.21	2,260,421.53	39.49106	-108.12094	
8,552.55	4.38	18.58	8,528.46	599.99	201.97	1,614,427.13	2,260,425.55	39.49109	-108.12092	
<b>Castlegate</b>										
8,600.00	4.38	18.58	8,575.78	603.42	203.13	1,614,430.53	2,260,426.81	39.49110	-108.12092	
8,800.00	4.38	18.58	8,775.19	617.89	207.99	1,614,444.85	2,260,432.09	39.49114	-108.12090	
8,842.49	4.38	18.58	8,817.56	620.96	209.03	1,614,447.90	2,260,433.21	39.49115	-108.12090	
<b>Castlegate Hot GR</b>										
8,977.40	4.38	18.58	8,952.07	630.72	212.31	1,614,457.56	2,260,436.77	39.49117	-108.12089	
<b>Marapos</b>										
9,000.00	4.38	18.58	8,974.61	632.36	212.86	1,614,459.18	2,260,437.37	39.49118	-108.12089	
9,200.00	4.38	18.58	9,174.03	646.83	217.72	1,614,473.50	2,260,442.65	39.49122	-108.12087	
9,203.92	4.38	18.58	9,177.93	647.11	217.82	1,614,473.78	2,260,442.75	39.49122	-108.12087	
<b>Mancos-B</b>										
9,400.00	4.38	18.58	9,373.44	661.30	222.59	1,614,487.82	2,260,447.93	39.49126	-108.12085	
9,600.00	4.38	18.58	9,572.86	675.77	227.45	1,614,502.14	2,260,453.21	39.49130	-108.12083	
9,800.00	4.38	18.58	9,772.28	690.24	232.32	1,614,516.47	2,260,458.49	39.49134	-108.12082	
9,976.24	4.38	18.58	9,948.00	702.99	236.60	1,614,529.09	2,260,463.14	39.49137	-108.12080	
<b>9 5/8"</b>										
10,000.00	4.38	18.58	9,971.69	704.71	237.18	1,614,530.79	2,260,463.77	39.49138	-108.12080	
10,026.24	4.38	18.58	9,997.86	706.60	237.82	1,614,532.67	2,260,464.46	39.49138	-108.12080	
<b>KOP 8°/100</b>										
10,179.59	8.30	167.72	10,150.76	701.31	242.06	1,614,527.25	2,260,468.54	39.49137	-108.12078	
<b>Top Buck Peak</b>										
10,200.00	9.91	169.46	10,170.91	698.14	242.69	1,614,524.07	2,260,469.09	39.49136	-108.12078	
10,321.18	19.55	173.93	10,287.98	667.65	246.76	1,614,493.48	2,260,472.27	39.49128	-108.12077	
<b>Top Niobrara</b>										
10,360.05	22.65	174.57	10,324.24	653.73	248.15	1,614,479.52	2,260,473.26	39.49124	-108.12076	
<b>Niobrara Hot GR Marker</b>										
10,395.36	25.47	175.02	10,356.48	639.40	249.45	1,614,465.15	2,260,474.15	39.49120	-108.12076	
<b>Niobrara Restivity Marker</b>										
10,400.00	25.84	175.08	10,360.66	637.40	249.63	1,614,463.15	2,260,474.27	39.49119	-108.12076	
10,474.01	31.75	175.76	10,425.49	601.88	252.45	1,614,427.56	2,260,476.07	39.49110	-108.12075	
<b>Niobrara HN2</b>										
10,600.00	41.82	176.52	10,526.26	526.70	257.47	1,614,352.28	2,260,478.91	39.49089	-108.12073	

**WPX**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well GM 728-14-33-HN1 - Slot A03
<b>Company:</b>	PICEANCE VLY NAD 83	<b>TVD Reference:</b>	KELLY BUSHING @ 5551.00usft (Original Well Elev)
<b>Project:</b>	GV 28-06S-096W	<b>MD Reference:</b>	KELLY BUSHING @ 5551.00usft (Original Well Elev)
<b>Site:</b>	GR 14-28 Pad	<b>North Reference:</b>	True
<b>Well:</b>	GM 728-14-33-HN1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #5 28Mar14 kjs		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,800.00	57.81	177.27	10,654.90	374.62	265.60	1,614,200.03	2,260,482.65	39.49047	-108.12070
11,000.00	73.80	177.78	10,736.60	192.95	273.40	1,614,018.22	2,260,485.20	39.48997	-108.12067
11,006.84	74.35	177.80	10,738.47	186.37	273.65	1,614,011.64	2,260,485.27	39.48995	-108.12067
HN1									
11,134.72	84.58	178.08	10,761.83	60.90	278.16	1,613,886.09	2,260,486.15	39.48961	-108.12065
Top Horizontal Target									
11,200.00	89.80	178.22	10,765.03	-4.25	280.26	1,613,820.92	2,260,486.37	39.48943	-108.12065
11,241.03	93.08	178.31	10,764.00	-45.24	281.50	1,613,779.91	2,260,486.43	39.48932	-108.12064
Landing Pt 93.08° Inc, 178.31° Az - LP GM 728-14-33-HN1									
11,400.00	93.08	178.31	10,755.46	-203.91	286.18	1,613,621.17	2,260,486.53	39.48888	-108.12063
11,600.00	93.08	178.31	10,744.72	-403.54	292.07	1,613,421.47	2,260,486.66	39.48833	-108.12061
11,800.00	93.08	178.31	10,733.98	-603.16	297.97	1,613,221.77	2,260,486.79	39.48779	-108.12058
12,000.00	93.08	178.31	10,723.24	-802.78	303.86	1,613,022.06	2,260,486.92	39.48724	-108.12056
12,190.70	93.08	178.31	10,713.00	-993.13	309.48	1,612,831.64	2,260,487.04	39.48672	-108.12054
Begin 2°/100 Drop - IP #1 GM 728-14-33-HN1									
12,200.00	92.89	178.31	10,712.52	-1,002.41	309.75	1,612,822.36	2,260,487.05	39.48669	-108.12054
12,239.88	92.09	178.31	10,710.78	-1,042.23	310.93	1,612,782.52	2,260,487.08	39.48658	-108.12054
Hold 92.09° Inc									
12,400.00	92.09	178.31	10,704.93	-1,202.18	315.65	1,612,622.51	2,260,487.18	39.48614	-108.12052
12,600.00	92.09	178.31	10,697.62	-1,401.96	321.55	1,612,422.65	2,260,487.31	39.48559	-108.12050
12,800.00	92.09	178.31	10,690.31	-1,601.74	327.44	1,612,222.80	2,260,487.44	39.48505	-108.12048
13,000.00	92.09	178.31	10,683.00	-1,801.52	333.34	1,612,022.94	2,260,487.57	39.48450	-108.12046
13,012.53	92.09	178.31	10,682.54	-1,814.03	333.71	1,612,010.41	2,260,487.58	39.48446	-108.12046
HN1 Base									
13,191.40	92.09	178.31	10,676.00	-1,992.70	338.98	1,611,831.68	2,260,487.69	39.48397	-108.12044
Begin 2°/100 Build - IP #2 GM 728-14-33-HN1									
13,200.00	92.27	178.31	10,675.67	-2,001.29	339.23	1,611,823.08	2,260,487.70	39.48395	-108.12044
13,236.51	93.00	178.31	10,674.00	-2,037.75	340.31	1,611,786.61	2,260,487.72	39.48385	-108.12043
Hold 93° Inc									
13,400.00	93.00	178.31	10,665.45	-2,200.95	345.13	1,611,623.35	2,260,487.83	39.48340	-108.12042
13,600.00	93.00	178.31	10,654.99	-2,400.58	351.02	1,611,423.63	2,260,487.96	39.48285	-108.12040
13,800.00	93.00	178.31	10,644.53	-2,600.22	356.91	1,611,223.91	2,260,488.08	39.48230	-108.12038
14,000.00	93.00	178.31	10,634.08	-2,799.86	362.80	1,611,024.20	2,260,488.21	39.48176	-108.12036
14,192.74	93.00	178.31	10,624.00	-2,992.26	368.48	1,610,831.72	2,260,488.34	39.48123	-108.12034
Begin 2°/100 Build - IP #3 GM 728-14-33-HN1									
14,200.00	93.14	178.31	10,623.61	-2,999.50	368.69	1,610,824.48	2,260,488.34	39.48121	-108.12033
14,238.44	93.91	178.31	10,621.25	-3,037.85	369.83	1,610,786.11	2,260,488.37	39.48110	-108.12033
Hold 93.91° Inc									
14,400.00	93.91	178.31	10,610.23	-3,198.97	374.58	1,610,624.94	2,260,488.47	39.48066	-108.12031
14,600.00	93.91	178.31	10,596.59	-3,398.41	380.47	1,610,425.41	2,260,488.60	39.48011	-108.12029
14,800.00	93.91	178.31	10,582.95	-3,597.86	386.35	1,610,225.88	2,260,488.73	39.47957	-108.12027
15,000.00	93.91	178.31	10,569.30	-3,797.31	392.24	1,610,026.36	2,260,488.86	39.47902	-108.12025
15,195.06	93.91	178.31	10,556.00	-3,991.83	397.98	1,609,831.76	2,260,488.98	39.47848	-108.12023
Begin 2°/100 Drop - IP #4 GM 728-14-33-HN1									
15,200.00	93.81	178.31	10,555.67	-3,996.76	398.13	1,609,826.83	2,260,488.99	39.47847	-108.12023
15,248.94	92.83	178.31	10,552.83	-4,045.59	399.57	1,609,777.98	2,260,489.02	39.47834	-108.12022
Hold 92.83° Inc									
15,400.00	92.83	178.31	10,545.36	-4,196.40	404.02	1,609,627.11	2,260,489.12	39.47792	-108.12021
15,600.00	92.83	178.31	10,535.48	-4,396.07	409.91	1,609,427.36	2,260,489.25	39.47737	-108.12019
15,800.00	92.83	178.31	10,525.59	-4,595.74	415.80	1,609,227.61	2,260,489.37	39.47683	-108.12017
16,000.00	92.83	178.31	10,515.70	-4,795.41	421.70	1,609,027.87	2,260,489.50	39.47628	-108.12015

**WPX**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well GM 728-14-33-HN1 - Slot A03
<b>Company:</b>	PICEANCE VLY NAD 83	<b>TVD Reference:</b>	KELLY BUSHING @ 5551.00usft (Original Well Elev)
<b>Project:</b>	GV 28-06S-096W	<b>MD Reference:</b>	KELLY BUSHING @ 5551.00usft (Original Well Elev)
<b>Site:</b>	GR 14-28 Pad	<b>North Reference:</b>	True
<b>Well:</b>	GM 728-14-33-HN1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #5 28Mar14 kjs		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
16,196.31	92.83	178.31	10,506.00	-4,991.39	427.48	1,608,831.81	2,260,489.63	39.47574	-108.12013
<b>Begin 2°/100 Build - IP #5 GM 728-14-33HN1</b>									
16,200.00	92.91	178.31	10,505.82	-4,995.08	427.59	1,608,828.12	2,260,489.63	39.47573	-108.12013
16,232.26	93.55	178.31	10,504.00	-5,027.27	428.54	1,608,795.91	2,260,489.65	39.47564	-108.12012
<b>Hold 93.55° Inc</b>									
16,400.00	93.55	178.31	10,493.60	-5,194.62	433.46	1,608,628.50	2,260,489.75	39.47518	-108.12010
16,600.00	93.55	178.31	10,481.21	-5,394.15	439.33	1,608,428.89	2,260,489.86	39.47463	-108.12008
16,797.07	93.55	178.31	10,469.00	-5,590.75	445.12	1,608,232.21	2,260,489.97	39.47409	-108.12006
<b>Begin 2°/100 Drop - EOC GM 728-14-33-HN1</b>									
16,800.00	93.49	178.31	10,468.82	-5,593.68	445.21	1,608,229.29	2,260,489.97	39.47409	-108.12006
16,873.12	92.03	178.31	10,465.30	-5,666.68	447.36	1,608,156.26	2,260,490.02	39.47389	-108.12006
<b>Hold 92.03° Inc</b>									
16,909.67	92.03	178.31	10,464.00	-5,703.19	448.44	1,608,119.73	2,260,490.04	39.47379	-108.12005
<b>TD at 16909.67 - TD / PBHL GM 728-14-33-HN1</b>									



**WPX**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well GM 728-14-33-HN1 - Slot A03
<b>Company:</b>	PICEANCE VLY NAD 83	<b>TVD Reference:</b>	KELLY BUSHING @ 5551.00usft (Original Well Elev)
<b>Project:</b>	GV 28-06S-096W	<b>MD Reference:</b>	KELLY BUSHING @ 5551.00usft (Original Well Elev)
<b>Site:</b>	GR 14-28 Pad	<b>North Reference:</b>	True
<b>Well:</b>	GM 728-14-33-HN1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #5 28Mar14 kjs		

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
cap4 - plan misses target center by 5900.19usft at 0.00usft MD (0.00 TVD, 0.01 N, 0.24 E) - Point	0.00	0.00	0.00	-5,896.78	-200.24	1,607,944.94	2,259,836.08	39.47325	-108.12235
cap2 - plan misses target center by 710.64usft at 0.00usft MD (0.00 TVD, 0.01 N, 0.24 E) - Point	0.00	0.00	0.00	-600.54	-379.70	1,613,243.94	2,259,809.50	39.48779	-108.12299
cap3 - plan misses target center by 3278.40usft at 0.00usft MD (0.00 TVD, 0.01 N, 0.24 E) - Point	0.00	0.00	0.00	-3,266.15	-282.92	1,610,576.76	2,259,829.33	39.48048	-108.12264
TD / PBHL GM 728-14-3 - plan hits target center - Point	0.00	0.00	10,464.00	-5,703.19	448.44	1,608,119.73	2,260,490.04	39.47379	-108.12005
EOC GM 728-14-33-HN - plan hits target center - Point	0.00	0.00	10,469.00	-5,590.75	445.12	1,608,232.21	2,260,489.97	39.47409	-108.12006
IP #5 GM 728-14-33HN - plan hits target center - Point	0.00	0.00	10,506.00	-4,991.39	427.48	1,608,831.81	2,260,489.63	39.47574	-108.12013
IP #4 GM 728-14-33-HN - plan hits target center - Point	0.00	0.00	10,556.00	-3,991.83	397.98	1,609,831.76	2,260,488.98	39.47848	-108.12023
IP #3 GM 728-14-33-HN - plan hits target center - Point	0.00	0.00	10,624.00	-2,992.26	368.48	1,610,831.72	2,260,488.34	39.48123	-108.12034
IP #2 GM 728-14-33-HN - plan hits target center - Point	0.00	0.00	10,676.00	-1,992.70	338.98	1,611,831.68	2,260,487.69	39.48397	-108.12044
IP #1 GM 728-14-33-HN - plan hits target center - Point	0.00	0.00	10,713.00	-993.13	309.48	1,612,831.64	2,260,487.05	39.48672	-108.12054
LP GM 728-14-33-HN1 - plan hits target center - Point	0.00	0.00	10,764.00	-45.24	281.50	1,613,779.91	2,260,486.43	39.48932	-108.12064

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (in)	Hole Diameter (in)
2,618.78	2,612.00	13 3/8"		13.375	17.500
9,976.24	9,948.00	9 5/8"		9.625	12.250

**WPX**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well GM 728-14-33-HN1 - Slot A03
<b>Company:</b>	PICEANCE VLY NAD 83	<b>TVD Reference:</b>	KELLY BUSHING @ 5551.00usft (Original Well Elev)
<b>Project:</b>	GV 28-06S-096W	<b>MD Reference:</b>	KELLY BUSHING @ 5551.00usft (Original Well Elev)
<b>Site:</b>	GR 14-28 Pad	<b>North Reference:</b>	True
<b>Well:</b>	GM 728-14-33-HN1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #5 28Mar14 kjs		

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,476.77	2,470.41	Base Fort Union		-3.03	178.46
3,440.24	3,431.07	Mesaverde		-3.03	178.46
4,644.32	4,631.63	Approx. Top Gas		-3.03	178.46
6,062.84	6,046.02	Cameo Coals		-3.03	178.46
6,591.39	6,573.02	Rollins SS		-3.03	178.46
6,833.01	6,813.94	Cozzette		-3.03	178.46
7,119.93	7,100.03	Corcoran		-3.03	178.46
7,273.97	7,253.61	Upper Sego		-3.03	178.46
7,654.52	7,633.05	Lower Sego		-3.03	178.46
8,000.84	7,978.37	Loyd A		-3.03	178.46
8,552.55	8,528.46	Castlegate		-3.03	178.46
8,842.49	8,817.56	Castlegate Hot GR		-3.03	178.46
8,977.40	8,952.07	Marapos		-3.03	178.46
9,203.92	9,177.93	Mancos-B		-3.03	178.46
10,179.59	10,150.76	Top Buck Peak		-3.03	178.46
10,321.18	10,287.98	Top Niobrara		-3.03	178.46
10,360.05	10,324.24	Niobrara Hot GR Marker		-3.03	178.46
10,395.36	10,356.48	Niobrara Restivity Marker		-3.03	178.46
10,474.01	10,425.49	Niobrara HN2		-3.03	178.46
13,012.53	10,682.54	HN1 Base		-3.03	178.46
11,006.84	10,738.47	HN1		-3.03	178.46
11,134.72	10,761.83	Top Horizontal Target		-3.03	178.46

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
150.00	150.00	0.01	0.24	Start Build 2.00
368.87	368.66	7.93	2.90	Hold 4.38° Inc, 18.58° Az
10,026.24	9,997.86	706.60	237.82	KOP 8°/100
11,241.03	10,764.00	-45.24	281.50	Landing Pt 93.08° Inc, 178.31° Az
12,190.70	10,713.00	-993.13	309.48	Begin 2°/100 Drop
12,239.88	10,710.78	-1,042.23	310.93	Hold 92.09° Inc
13,191.40	10,676.00	-1,992.70	338.98	Begin 2°/100 Build
13,236.51	10,674.00	-2,037.75	340.31	Hold 93° Inc
14,192.74	10,624.00	-2,992.26	368.48	Begin 2°/100 Build
14,238.44	10,621.25	-3,037.85	369.83	Hold 93.91° Inc
15,195.06	10,556.00	-3,991.83	397.98	Begin 2°/100 Drop
15,248.94	10,552.83	-4,045.59	399.57	Hold 92.83° Inc
16,196.31	10,506.00	-4,991.39	427.48	Begin 2°/100 Build
16,232.26	10,504.00	-5,027.27	428.54	Hold 93.55° Inc
16,797.07	10,469.00	-5,590.75	445.12	Begin 2°/100 Drop
16,873.12	10,465.30	-5,666.68	447.36	Hold 92.03° Inc
16,909.67	10,464.00	-5,703.19	448.44	TD at 16909.67