



Well Name: GM 703-4-HN1
Surface Location: MV 28-4 Pad
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 5681.00

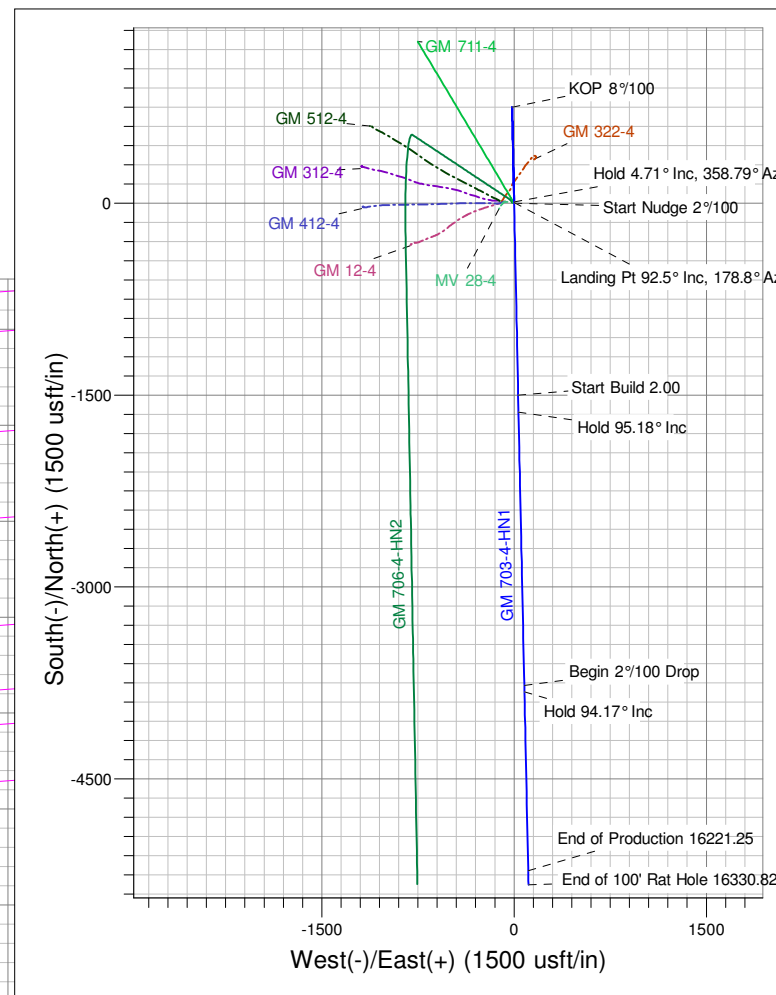
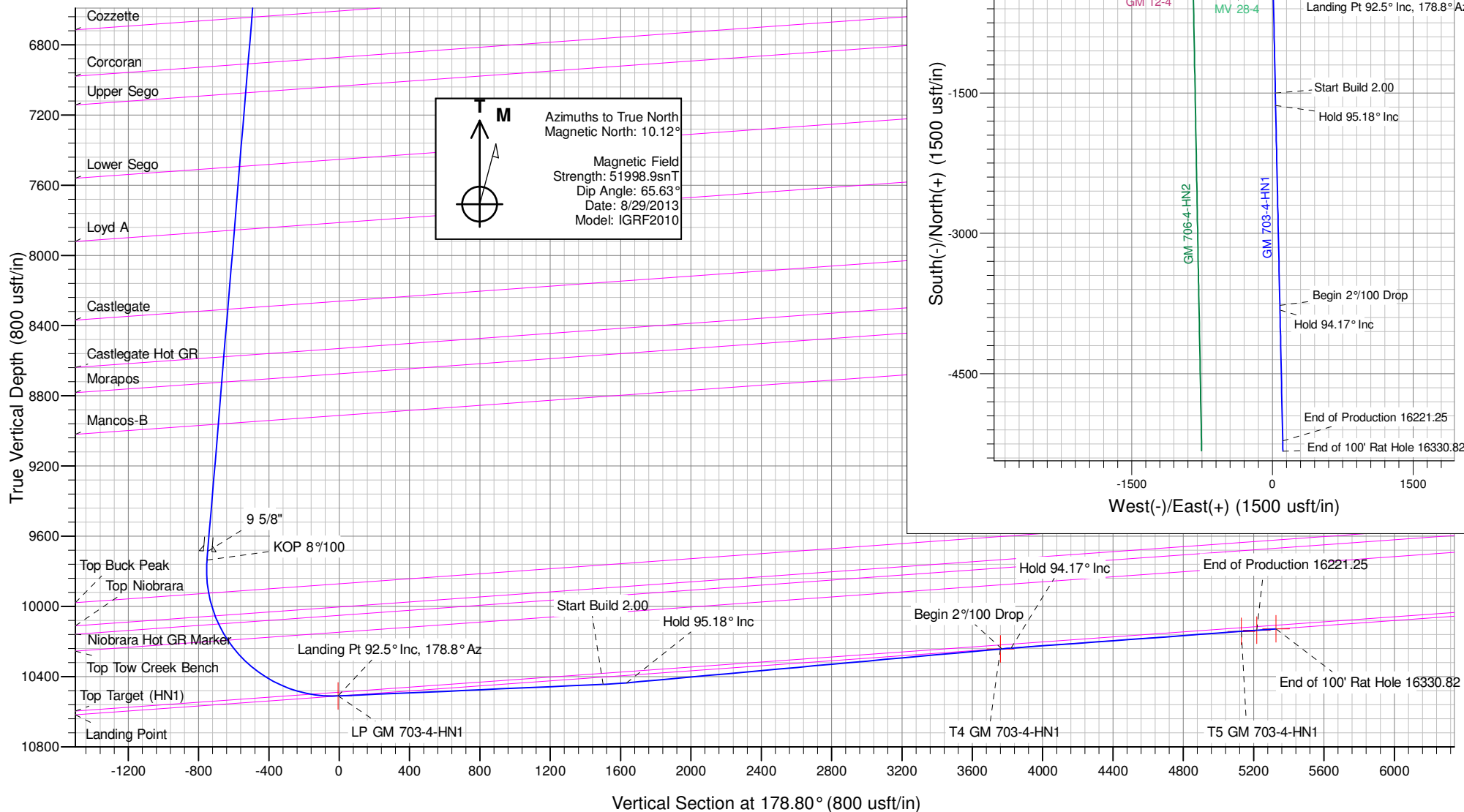
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1605932.00	2261183.50	39.46784	-108.11737

KELLY BUSHING @ 5714.00usft (Nabors - Pace X21 (33' RKB))

Project: GV 04-07S-096W
Site: MV 28-4 Pad
Well: GM 703-4-HN1
Plan #5 19Mar14 kjs

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
500.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	Start Nudge 2°/100
735.25	735.52	4.71	358.79	9.67	-0.20	-9.68	9.68	Hold 4.71° Inc, 358.79° Az
9736.67	9767.44	4.71	358.79	751.19	-15.83	-751.36	751.36	KOP 8°/100
10511.00	10982.57	92.50	178.80	6.34	-0.24	-6.34	1502.08	Landing Pt 92.5° Inc, 178.8° Az
10445.23	12490.37	92.50	178.80	-1499.70	31.30	1500.02	3008.45	Start Build 2.00
10436.26	12624.37	95.18	178.80	-1633.36	34.10	1633.71	3142.14	Hold 95.18° Inc
10242.59	14769.41	95.18	178.80	-3769.17	78.83	3769.99	5278.42	Begin 2°/100 Drop
10238.48	14819.90	94.17	178.80	-3819.48	79.89	3820.31	5328.74	Hold 94.17° Inc
10136.57	16221.25	94.17	178.80	-5216.81	109.15	5217.95	6726.38	End of Production 16221.25
10128.60	16330.82	94.17	178.80	-5326.06	111.44	5327.23	6835.65	End of 100' Rat Hole 16330.82



PICEANCE VLY NAD 83

GV 04-07S-096W

MV 28-4 Pad

GM 703-4-HN1 - Slot B18

Wellbore #1

Plan: Plan #5 19Mar14 kjs

Standard Planning Report - Geographic

19 March, 2014

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 703-4-HN1 - Slot B18
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5714.00usft (Nabors - Pace X21 (33' RKB))
Project:	GV 04-07S-096W	MD Reference:	KELLY BUSHING @ 5714.00usft (Nabors - Pace X21 (33' RKB))
Site:	MV 28-4 Pad	North Reference:	True
Well:	GM 703-4-HN1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #5 19Mar14 kjs		

Project	GV 04-07S-096W, Garfield County, CO, 04-07S-096W		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		Using geodetic scale factor

Site	MV 28-4 Pad			
Site Position:		Northing:	1,605,943.00 usft	Latitude: 39.46786
From: Map		Easting:	2,261,130.35 usft	Longitude: -108.11756
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence: -1.651 °

Well	GM 703-4-HN1 - Slot B18			
Well Position	+N/-S	0.00 usft	Northing:	1,605,932.00 usft
	+E/-W	0.00 usft	Easting:	2,261,183.50 usft
Position Uncertainty	0.00 usft		Wellhead Elevation:	
			Ground Level:	5,681.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/29/2013	10.120	65.633	51,999

Design	Plan #5 19Mar14 kjs			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	178.80

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	0.00	0.00	0.00	0.00	0.00	0.000	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.000	
735.52	4.71	358.79	735.25	9.67	-0.20	2.00	2.00	0.00	358.793	
9,767.44	4.71	358.79	9,736.67	751.19	-15.83	0.00	0.00	0.00	0.000	
10,982.57	92.50	178.80	10,511.00	6.34	-0.24	8.00	7.22	-14.81	-179.992	LP GM 703-4-HN1
12,490.37	92.50	178.80	10,445.23	-1,499.70	31.30	0.00	0.00	0.00	0.000	
12,624.37	95.18	178.80	10,436.26	-1,633.36	34.10	2.00	2.00	0.00	0.000	
14,769.41	95.18	178.80	10,242.59	-3,769.17	78.83	0.00	0.00	0.00	0.000	
14,819.90	94.17	178.80	10,238.48	-3,819.47	79.89	2.00	-2.00	0.00	-180.000	
16,221.25	94.17	178.80	10,136.57	-5,216.81	109.15	0.00	0.00	0.00	0.000	EOC GM 703-4-HN1
16,330.82	94.17	178.80	10,128.60	-5,326.06	111.44	0.00	0.00	0.00	1.030	TD / PBHL GM 703-4

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 703-4-HN1 - Slot B18
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5714.00usft (Nabors - Pace X21 (33' RKB))
Project:	GV 04-07S-096W	MD Reference:	KELLY BUSHING @ 5714.00usft (Nabors - Pace X21 (33' RKB))
Site:	MV 28-4 Pad	North Reference:	True
Well:	GM 703-4-HN1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #5 19Mar14 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	0.00	0.00	1,605,932.00	2,261,183.50	39.46784	-108.11737	
200.00	0.00	0.00	200.00	0.00	0.00	1,605,932.00	2,261,183.50	39.46784	-108.11737	
400.00	0.00	0.00	400.00	0.00	0.00	1,605,932.00	2,261,183.50	39.46784	-108.11737	
500.00	0.00	0.00	500.00	0.00	0.00	1,605,932.00	2,261,183.50	39.46784	-108.11737	
Start Nudge 2°/100										
600.00	2.00	358.79	599.98	1.74	-0.04	1,605,933.74	2,261,183.51	39.46784	-108.11737	
735.52	4.71	358.79	735.25	9.67	-0.20	1,605,941.67	2,261,183.58	39.46786	-108.11737	
Hold 4.71° Inc, 358.79° Az										
800.00	4.71	358.79	799.52	14.97	-0.32	1,605,946.97	2,261,183.62	39.46788	-108.11737	
1,000.00	4.71	358.79	998.84	31.39	-0.66	1,605,963.39	2,261,183.74	39.46792	-108.11738	
1,200.00	4.71	358.79	1,198.17	47.81	-1.01	1,605,979.81	2,261,183.87	39.46797	-108.11738	
1,400.00	4.71	358.79	1,397.49	64.23	-1.35	1,605,996.23	2,261,184.00	39.46801	-108.11738	
1,600.00	4.71	358.79	1,596.82	80.65	-1.70	1,606,012.66	2,261,184.12	39.46806	-108.11738	
1,800.00	4.71	358.79	1,796.14	97.07	-2.05	1,606,029.08	2,261,184.25	39.46810	-108.11738	
1,827.07	4.71	358.79	1,823.12	99.29	-2.09	1,606,031.30	2,261,184.27	39.46811	-108.11738	
Top of "G" Sand										
1,857.35	4.71	358.79	1,853.30	101.78	-2.14	1,606,033.79	2,261,184.29	39.46812	-108.11738	
Base of "G" Sand										
2,000.00	4.71	358.79	1,995.46	113.49	-2.39	1,606,045.50	2,261,184.38	39.46815	-108.11738	
2,145.02	4.71	358.79	2,139.99	125.39	-2.64	1,606,057.41	2,261,184.47	39.46818	-108.11738	
Top Fort Union										
2,200.00	4.71	358.79	2,194.79	129.91	-2.74	1,606,061.92	2,261,184.51	39.46819	-108.11738	
2,400.00	4.71	358.79	2,394.11	146.33	-3.08	1,606,078.34	2,261,184.63	39.46824	-108.11738	
2,450.85	4.71	358.79	2,444.79	150.50	-3.17	1,606,082.52	2,261,184.67	39.46825	-108.11738	
Base Fort Union										
2,506.25	4.71	358.79	2,500.00	155.05	-3.27	1,606,087.07	2,261,184.70	39.46826	-108.11738	
13 3/8"										
2,600.00	4.71	358.79	2,593.44	162.75	-3.43	1,606,094.77	2,261,184.76	39.46828	-108.11739	
2,800.00	4.71	358.79	2,792.76	179.17	-3.78	1,606,111.19	2,261,184.89	39.46833	-108.11739	
3,000.00	4.71	358.79	2,992.09	195.59	-4.12	1,606,127.61	2,261,185.01	39.46837	-108.11739	
3,200.00	4.71	358.79	3,191.41	212.01	-4.47	1,606,144.03	2,261,185.14	39.46842	-108.11739	
3,400.00	4.71	358.79	3,390.74	228.43	-4.81	1,606,160.46	2,261,185.27	39.46846	-108.11739	
3,403.68	4.71	358.79	3,394.40	228.73	-4.82	1,606,160.76	2,261,185.27	39.46846	-108.11739	
Mesaverde										
3,600.00	4.71	358.79	3,590.06	244.85	-5.16	1,606,176.88	2,261,185.40	39.46851	-108.11739	
3,800.00	4.71	358.79	3,789.38	261.27	-5.51	1,606,193.30	2,261,185.52	39.46855	-108.11739	
4,000.00	4.71	358.79	3,988.71	277.69	-5.85	1,606,209.72	2,261,185.65	39.46860	-108.11739	
4,200.00	4.71	358.79	4,188.03	294.11	-6.20	1,606,226.15	2,261,185.78	39.46864	-108.11740	
4,400.00	4.71	358.79	4,387.36	310.53	-6.54	1,606,242.57	2,261,185.90	39.46869	-108.11740	
4,558.37	4.71	358.79	4,545.20	323.53	-6.82	1,606,255.57	2,261,186.00	39.46872	-108.11740	
Approx. Top Gas										
4,600.00	4.71	358.79	4,586.68	326.95	-6.89	1,606,258.99	2,261,186.03	39.46873	-108.11740	
4,800.00	4.71	358.79	4,786.01	343.37	-7.24	1,606,275.41	2,261,186.16	39.46878	-108.11740	
5,000.00	4.71	358.79	4,985.33	359.79	-7.58	1,606,291.84	2,261,186.29	39.46882	-108.11740	
5,200.00	4.71	358.79	5,184.66	376.21	-7.93	1,606,308.26	2,261,186.41	39.46887	-108.11740	
5,400.00	4.71	358.79	5,383.98	392.63	-8.27	1,606,324.68	2,261,186.54	39.46891	-108.11740	
5,600.00	4.71	358.79	5,583.31	409.05	-8.62	1,606,341.10	2,261,186.67	39.46896	-108.11740	
5,800.00	4.71	358.79	5,782.63	425.47	-8.97	1,606,357.52	2,261,186.79	39.46900	-108.11740	
5,882.64	4.71	358.79	5,864.99	432.25	-9.11	1,606,364.31	2,261,186.85	39.46902	-108.11741	
Cameo Coals										
6,000.00	4.71	358.79	5,981.95	441.89	-9.31	1,606,373.95	2,261,186.92	39.46905	-108.11741	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 703-4-HN1 - Slot B18
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5714.00usft (Nabors - Pace X21 (33' RKB))
Project:	GV 04-07S-096W	MD Reference:	KELLY BUSHING @ 5714.00usft (Nabors - Pace X21 (33' RKB))
Site:	MV 28-4 Pad	North Reference:	True
Well:	GM 703-4-HN1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #5 19Mar14 kjs		

Planned Survey										
Measured			Vertical			Map		Map		
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
6,200.00	4.71	358.79	6,181.28	458.31	-9.66	1,606,390.37	2,261,187.05	39.46909	-108.11741	
6,389.33	4.71	358.79	6,369.97	473.85	-9.99	1,606,405.92	2,261,187.17	39.46914	-108.11741	
Rollins SS										
6,400.00	4.71	358.79	6,380.60	474.73	-10.00	1,606,406.79	2,261,187.17	39.46914	-108.11741	
6,600.00	4.71	358.79	6,579.93	491.15	-10.35	1,606,423.21	2,261,187.30	39.46918	-108.11741	
6,662.87	4.71	358.79	6,642.58	496.31	-10.46	1,606,428.38	2,261,187.34	39.46920	-108.11741	
Cozzette										
6,800.00	4.71	358.79	6,779.25	507.57	-10.70	1,606,439.64	2,261,187.43	39.46923	-108.11741	
6,929.34	4.71	358.79	6,908.15	518.18	-10.92	1,606,450.26	2,261,187.51	39.46926	-108.11741	
Corcoran										
7,000.00	4.71	358.79	6,978.58	523.99	-11.04	1,606,456.06	2,261,187.56	39.46927	-108.11741	
7,095.88	4.71	358.79	7,074.13	531.86	-11.21	1,606,463.93	2,261,187.62	39.46930	-108.11741	
Upper Sego										
7,200.00	4.71	358.79	7,177.90	540.41	-11.39	1,606,472.48	2,261,187.68	39.46932	-108.11741	
7,400.00	4.71	358.79	7,377.23	556.83	-11.74	1,606,488.90	2,261,187.81	39.46937	-108.11741	
7,517.79	4.71	358.79	7,494.62	566.50	-11.94	1,606,498.58	2,261,187.89	39.46939	-108.11742	
Lower Sego										
7,600.00	4.71	358.79	7,576.55	573.25	-12.08	1,606,505.33	2,261,187.94	39.46941	-108.11742	
7,800.00	4.71	358.79	7,775.88	589.67	-12.43	1,606,521.75	2,261,188.06	39.46946	-108.11742	
7,881.15	4.71	358.79	7,856.75	596.33	-12.57	1,606,528.41	2,261,188.12	39.46947	-108.11742	
Loyd A										
8,000.00	4.71	358.79	7,975.20	606.09	-12.77	1,606,538.17	2,261,188.19	39.46950	-108.11742	
8,200.00	4.71	358.79	8,174.52	622.51	-13.12	1,606,554.59	2,261,188.32	39.46955	-108.11742	
8,333.34	4.71	358.79	8,307.42	633.45	-13.35	1,606,565.54	2,261,188.40	39.46958	-108.11742	
Castlegate										
8,400.00	4.71	358.79	8,373.85	638.93	-13.47	1,606,571.02	2,261,188.45	39.46959	-108.11742	
8,600.00	4.71	358.79	8,573.17	655.35	-13.81	1,606,587.44	2,261,188.57	39.46964	-108.11742	
8,604.86	4.71	358.79	8,578.01	655.74	-13.82	1,606,587.84	2,261,188.58	39.46964	-108.11742	
Castlegate Hot GR										
8,750.20	4.71	358.79	8,722.87	667.68	-14.07	1,606,599.77	2,261,188.67	39.46967	-108.11742	
Morapos										
8,800.00	4.71	358.79	8,772.50	671.77	-14.16	1,606,603.86	2,261,188.70	39.46968	-108.11742	
8,989.42	4.71	358.79	8,961.28	687.32	-14.49	1,606,619.41	2,261,188.82	39.46972	-108.11742	
Mancos-B										
9,000.00	4.71	358.79	8,971.82	688.18	-14.50	1,606,620.28	2,261,188.83	39.46973	-108.11742	
9,200.00	4.71	358.79	9,171.15	704.60	-14.85	1,606,636.71	2,261,188.95	39.46977	-108.11743	
9,400.00	4.71	358.79	9,370.47	721.02	-15.20	1,606,653.13	2,261,189.08	39.46982	-108.11743	
9,600.00	4.71	358.79	9,569.80	737.44	-15.54	1,606,669.55	2,261,189.21	39.46986	-108.11743	
9,717.44	4.71	358.79	9,686.84	747.09	-15.75	1,606,679.19	2,261,189.28	39.46989	-108.11743	
9 5/8"										
9,767.44	4.71	358.79	9,736.67	751.19	-15.83	1,606,683.30	2,261,189.31	39.46990	-108.11743	
KOP 8"/100										
9,800.00	2.11	358.78	9,769.17	753.13	-15.87	1,606,685.23	2,261,189.33	39.46990	-108.11743	
9,956.74	10.43	178.80	9,925.18	741.77	-15.64	1,606,673.88	2,261,189.24	39.46987	-108.11743	
Top Buck Peak										
10,000.00	13.89	178.80	9,967.47	732.66	-15.45	1,606,664.76	2,261,189.17	39.46985	-108.11743	
10,091.40	21.21	178.80	10,054.55	705.12	-14.87	1,606,637.22	2,261,188.95	39.46977	-108.11743	
Top Niobrara										
10,141.02	25.18	178.80	10,100.15	685.59	-14.46	1,606,617.69	2,261,188.79	39.46972	-108.11742	
Niobrara Hot GR Marker										
10,200.00	29.89	178.80	10,152.44	658.34	-13.89	1,606,590.43	2,261,188.58	39.46964	-108.11742	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 703-4-HN1 - Slot B18
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5714.00usft (Nabors - Pace X21 (33' RKB))
Project:	GV 04-07S-096W	MD Reference:	KELLY BUSHING @ 5714.00usft (Nabors - Pace X21 (33' RKB))
Site:	MV 28-4 Pad	North Reference:	True
Well:	GM 703-4-HN1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #5 19Mar14 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
10,247.04	33.66	178.80	10,192.42	633.57	-13.37	1,606,565.66	2,261,188.38	39.46958	-108.11742
Top Tow Creek Bench									
10,400.00	45.89	178.80	10,309.76	535.92	-11.33	1,606,468.00	2,261,187.61	39.46931	-108.11741
10,600.00	61.89	178.80	10,427.23	374.90	-7.96	1,606,306.95	2,261,186.35	39.46887	-108.11740
10,800.00	77.89	178.80	10,495.76	187.73	-4.04	1,606,119.76	2,261,184.87	39.46835	-108.11739
10,825.53	79.94	178.80	10,500.66	162.68	-3.51	1,606,094.71	2,261,184.67	39.46828	-108.11739
Top Target (HN1)									
10,982.57	92.50	178.80	10,511.00	6.34	-0.24	1,605,938.34	2,261,183.44	39.46785	-108.11737
Landing Pt 92.5° Inc, 178.8° Az - LP GM 703-4-HN1									
10,998.81	92.50	178.80	10,510.29	-9.88	0.10	1,605,922.12	2,261,183.32	39.46781	-108.11737
Landing Point									
11,000.00	92.50	178.80	10,510.24	-11.07	0.12	1,605,920.92	2,261,183.31	39.46781	-108.11737
11,200.00	92.50	178.80	10,501.52	-210.84	4.31	1,605,721.13	2,261,181.73	39.46726	-108.11736
11,400.00	92.50	178.80	10,492.79	-410.60	8.49	1,605,521.33	2,261,180.16	39.46671	-108.11734
11,600.00	92.50	178.80	10,484.07	-610.37	12.68	1,605,321.54	2,261,178.59	39.46616	-108.11733
11,800.00	92.50	178.80	10,475.34	-810.14	16.86	1,605,121.75	2,261,177.02	39.46561	-108.11731
12,000.00	92.50	178.80	10,466.62	-1,009.90	21.04	1,604,921.95	2,261,175.44	39.46506	-108.11730
12,200.00	92.50	178.80	10,457.90	-1,209.67	25.23	1,604,722.16	2,261,173.87	39.46452	-108.11728
12,400.00	92.50	178.80	10,449.17	-1,409.43	29.41	1,604,522.36	2,261,172.30	39.46397	-108.11727
12,490.37	92.50	178.80	10,445.23	-1,499.70	31.30	1,604,432.08	2,261,171.59	39.46372	-108.11726
Start Build 2.00									
12,600.00	94.69	178.80	10,438.35	-1,609.08	33.59	1,604,322.68	2,261,170.73	39.46342	-108.11725
12,624.37	95.18	178.80	10,436.26	-1,633.36	34.10	1,604,298.41	2,261,170.54	39.46335	-108.11725
Hold 95.18° Inc									
12,800.00	95.18	178.80	10,420.40	-1,808.23	37.76	1,604,123.51	2,261,169.16	39.46287	-108.11724
13,000.00	95.18	178.80	10,402.34	-2,007.37	41.94	1,603,924.34	2,261,167.59	39.46233	-108.11722
13,200.00	95.18	178.80	10,384.29	-2,206.51	46.11	1,603,725.17	2,261,166.03	39.46178	-108.11721
13,400.00	95.18	178.80	10,366.23	-2,405.65	50.28	1,603,526.00	2,261,164.46	39.46123	-108.11720
13,600.00	95.18	178.80	10,348.17	-2,604.79	54.45	1,603,326.83	2,261,162.89	39.46069	-108.11718
13,800.00	95.18	178.80	10,330.12	-2,803.93	58.62	1,603,127.67	2,261,161.32	39.46014	-108.11717
14,000.00	95.18	178.80	10,312.06	-3,003.07	62.79	1,602,928.50	2,261,159.76	39.45959	-108.11715
14,200.00	95.18	178.80	10,294.00	-3,202.21	66.96	1,602,729.33	2,261,158.19	39.45905	-108.11714
14,400.00	95.18	178.80	10,275.95	-3,401.35	71.13	1,602,530.16	2,261,156.62	39.45850	-108.11712
14,600.00	95.18	178.80	10,257.89	-3,600.49	75.30	1,602,330.99	2,261,155.05	39.45795	-108.11711
14,759.91	95.18	178.80	10,243.45	-3,759.71	78.64	1,602,171.75	2,261,153.80	39.45751	-108.11709
T4 GM 703-4-HN1									
14,769.41	95.18	178.80	10,242.59	-3,769.17	78.83	1,602,162.29	2,261,153.73	39.45749	-108.11709
Begin 2°/100 Drop									
14,800.00	94.57	178.80	10,239.99	-3,799.64	79.47	1,602,131.81	2,261,153.49	39.45741	-108.11709
14,819.90	94.17	178.80	10,238.48	-3,819.48	79.89	1,602,111.97	2,261,153.33	39.45735	-108.11709
Hold 94.17° Inc									
15,000.00	94.17	178.80	10,225.38	-3,999.06	83.65	1,601,932.36	2,261,151.92	39.45686	-108.11708
15,200.00	94.17	178.80	10,210.84	-4,198.49	87.83	1,601,732.90	2,261,150.35	39.45631	-108.11706
15,400.00	94.17	178.80	10,196.29	-4,397.91	92.00	1,601,533.45	2,261,148.78	39.45576	-108.11705
15,600.00	94.17	178.80	10,181.75	-4,597.34	96.18	1,601,333.99	2,261,147.21	39.45522	-108.11703
15,800.00	94.17	178.80	10,167.20	-4,796.77	100.36	1,601,134.54	2,261,145.64	39.45467	-108.11702
16,000.00	94.17	178.80	10,152.66	-4,996.19	104.53	1,600,935.08	2,261,144.07	39.45412	-108.11700
16,132.83	94.17	178.80	10,143.00	-5,128.64	107.31	1,600,802.61	2,261,143.02	39.45376	-108.11699
T5 GM 703-4-HN1									
16,200.00	94.17	178.80	10,138.12	-5,195.62	108.71	1,600,735.63	2,261,142.50	39.45357	-108.11699

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 703-4-HN1 - Slot B18
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5714.00usft (Nabors - Pace X21 (33' RKB))
Project:	GV 04-07S-096W	MD Reference:	KELLY BUSHING @ 5714.00usft (Nabors - Pace X21 (33' RKB))
Site:	MV 28-4 Pad	North Reference:	True
Well:	GM 703-4-HN1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #5 19Mar14 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
16,221.25	94.17	178.80	10,136.57	-5,216.81	109.15	1,600,714.44	2,261,142.33	39.45351	-108.11699
End of Production 16221.25 - EOC GM 703-4-HN1									
16,330.82	94.17	178.80	10,128.60	-5,326.06	111.44	1,600,605.17	2,261,141.47	39.45321	-108.11698
End of 100' Rat Hole 16330.82 - TD / PBHL GM 703-4-HN1									

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
TD / PBHL GM 703-4-HN1 - plan hits target center - Point	0.00	0.00	10,128.60	-5,326.06	111.44	1,600,605.17	2,261,141.47	39.45321	-108.11698
EOC GM 703-4-HN1 - plan hits target center - Point	0.00	0.00	10,136.57	-5,216.81	109.15	1,600,714.44	2,261,142.33	39.45351	-108.11699
T5 GM 703-4-HN1 - plan hits target center - Point	0.00	0.00	10,143.00	-5,128.64	107.31	1,600,802.61	2,261,143.02	39.45376	-108.11699
T4 GM 703-4-HN1 - plan misses target center by 0.45usft at 14759.91usft MD (10243.45 TVD, -3759.71 N, 78.64 E) - Point	0.00	0.00	10,243.00	-3,759.66	78.64	1,602,171.79	2,261,153.80	39.45751	-108.11709
LP GM 703-4-HN1 - plan hits target center - Point	0.00	0.00	10,511.00	6.34	-0.24	1,605,938.34	2,261,183.44	39.46785	-108.11737

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,506.25	2,500.00	13 3/8"	13.375	17.500	
9,717.44	9,686.84	9 5/8"	9.625	12.250	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 703-4-HN1 - Slot B18
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5714.00usft (Nabors - Pace X21 (33' RKB))
Project:	GV 04-07S-096W	MD Reference:	KELLY BUSHING @ 5714.00usft (Nabors - Pace X21 (33' RKB))
Site:	MV 28-4 Pad	North Reference:	True
Well:	GM 703-4-HN1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #5 19Mar14 kjs		

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,827.07	1,823.12	Top of "G" Sand		-4.100	178.47
1,857.35	1,853.30	Base of "G" Sand		-4.100	178.47
2,145.02	2,139.99	Top Fort Union		-4.100	178.47
2,450.85	2,444.79	Base Fort Union		-4.100	178.47
3,403.68	3,394.40	Mesaverde		-4.100	178.47
4,558.37	4,545.20	Approx. Top Gas		-4.100	178.47
5,882.64	5,864.99	Cameo Coals		-4.100	178.47
6,389.33	6,369.97	Rollins SS		-4.100	178.47
6,662.87	6,642.58	Cozzette		-4.100	178.47
6,929.34	6,908.15	Corcoran		-4.100	178.47
7,095.88	7,074.13	Upper Sego		-4.100	178.47
7,517.79	7,494.62	Lower Sego		-4.100	178.47
7,881.15	7,856.75	Loyd A		-4.100	178.47
8,333.34	8,307.42	Castlegate		-4.100	178.47
8,604.86	8,578.01	Castlegate Hot GR		-4.100	178.47
8,750.20	8,722.87	Morapos		-4.100	178.47
8,989.42	8,961.28	Mancos-B		-4.100	178.47
9,956.74	9,925.18	Top Buck Peak		-4.100	178.47
10,091.40	10,054.55	Top Niobrara		-4.100	178.47
10,141.02	10,100.15	Niobrara Hot GR Marker		-4.100	178.47
10,247.04	10,192.42	Top Tow Creek Bench		-4.100	178.47
10,825.53	10,500.66	Top Target (HN1)		-4.100	178.47
10,998.81	10,510.29	Landing Point		-4.100	178.47

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
500.00	500.00	0.00	0.00	Start Nudge 2°/100
735.52	735.25	9.67	-0.20	Hold 4.71° Inc, 358.79° Az
9,767.44	9,736.67	751.19	-15.83	KOP 8°/100
10,982.57	10,511.00	6.34	-0.24	Landing Pt 92.5° Inc, 178.8° Az
12,490.37	10,445.23	-1,499.70	31.30	Start Build 2.00
12,624.37	10,436.26	-1,633.36	34.10	Hold 95.18° Inc
14,769.41	10,242.59	-3,769.17	78.83	Begin 2°/100 Drop
14,819.90	10,238.48	-3,819.48	79.89	Hold 94.17° Inc
16,221.25	10,136.57	-5,216.81	109.15	End of Production 16221.25
16,330.82	10,128.60	-5,326.06	111.44	End of 100' Rat Hole 16330.82