



Well Name: GM 705-34-8-HN1  
Surface Location: MV 34-5 Pad  
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone  
Ground Elevation: 5977.00

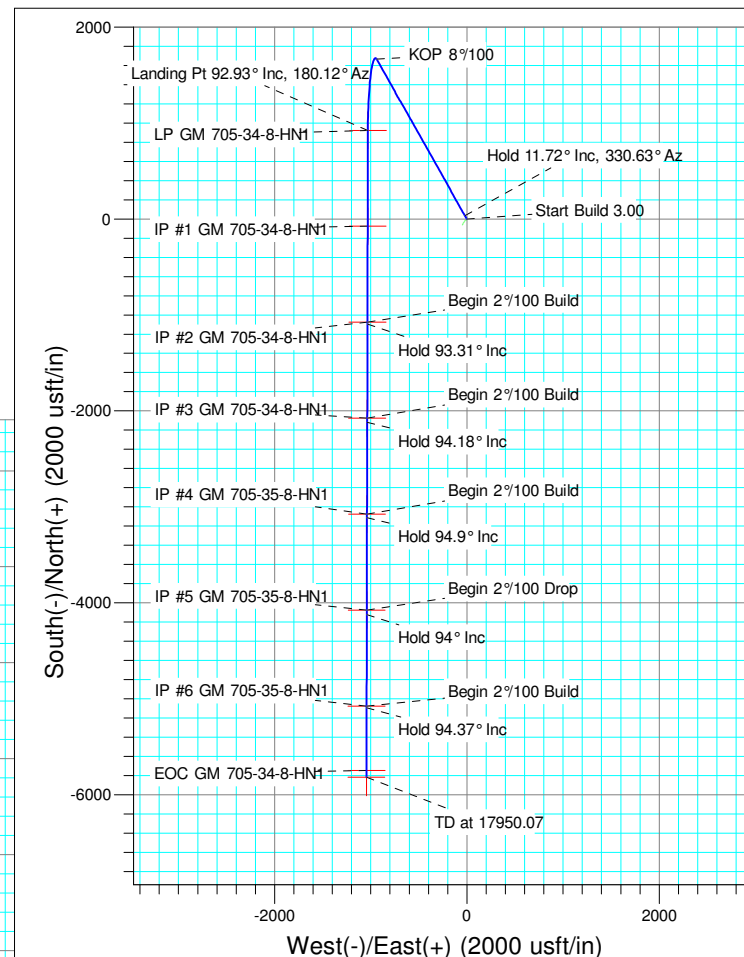
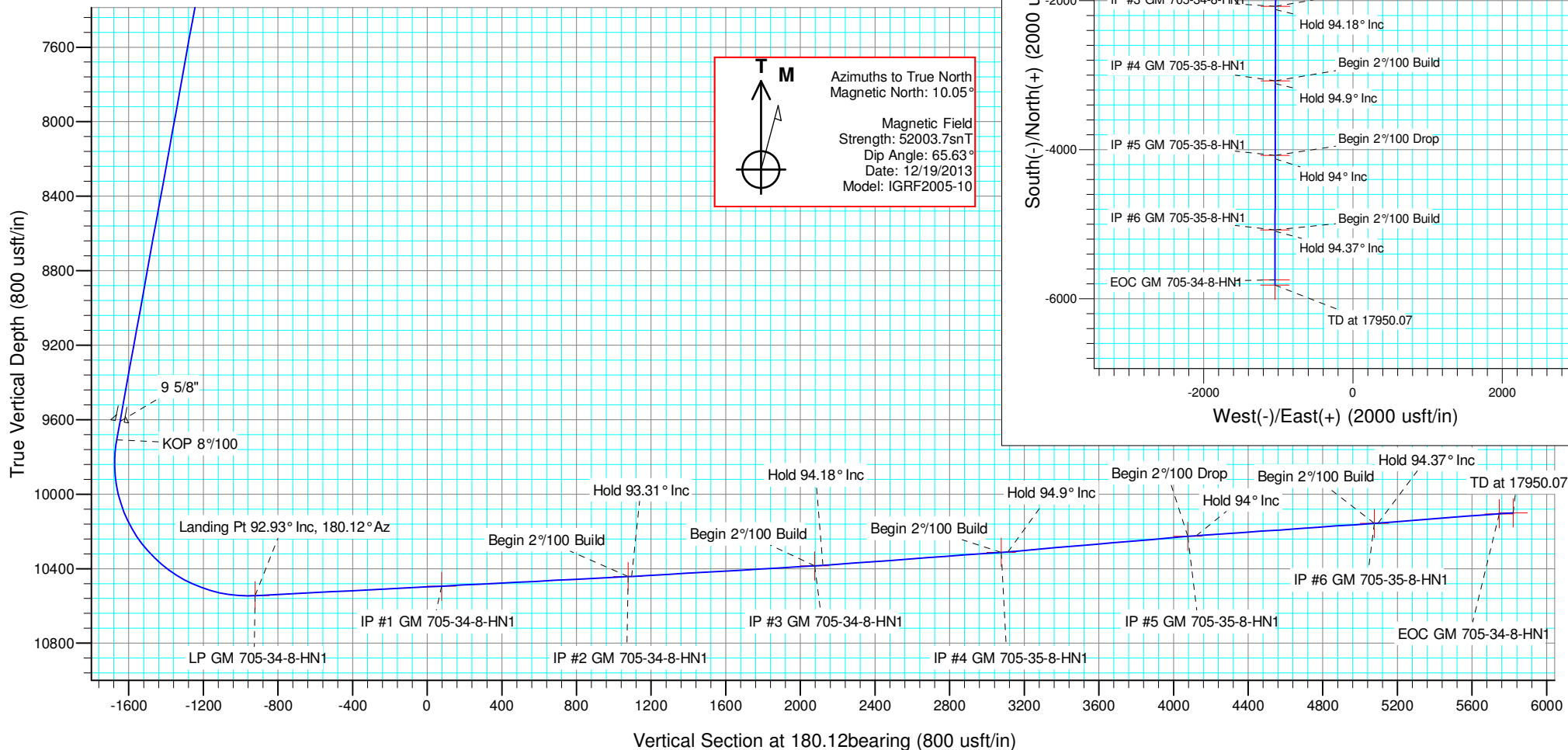
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	-0.04	1603556.86898	2258836.15000	39.46113	-108.12544	B15

KELLY BUSHING @ 6010.00usft

Project: GV 05-07S-096W  
Site: MV 34-5 Pad  
Well: GM 705-34-8-HN1  
Plan #3 16Jul14 kjs

#### ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
300.00	300.00	0.00	0.00	0.00	-0.04	0.00	0.00	Start Build 3.00
688.09	690.81	11.72	330.63	34.72	-19.58	-34.68	39.85	Hold 11.72° Inc, 330.63° Az
9708.21	9903.14	11.72	330.63	1666.14	-937.65	-1664.17	1911.84	KOP 8°/100
10545.32	11191.89	92.93	180.12	925.05	-1029.49	-922.89	2695.19	Landing Pt 92.93° Inc, 180.12° Az
10443.03	13194.59	92.93	180.12	-1075.03	-1033.85	1077.19	4695.28	Begin 2°/100 Build
10441.99	13213.72	93.31	180.12	-1094.14	-1033.89	1096.30	4714.38	Hold 93.31° Inc
10385.25	14196.30	93.31	180.12	-2075.08	-1036.02	2077.24	5695.32	Begin 2°/100 Build
10382.42	14239.71	94.18	180.12	-2118.38	-1036.11	2120.55	5738.63	Hold 94.18° Inc
10312.52	15198.99	94.18	180.12	-3075.12	-1038.20	3077.29	6695.37	Begin 2°/100 Build
10309.67	15234.97	94.90	180.12	-3110.98	-1038.27	3113.15	6731.23	Hold 94.9° Inc
10227.05	16202.68	94.90	180.12	-4075.16	-1040.37	4077.33	7695.41	Begin 2°/100 Drop
10223.56	16247.73	94.00	180.12	-4120.07	-1040.47	4122.24	7740.32	Hold 94° Inc
10156.82	17205.19	94.00	180.12	-5075.20	-1042.55	5077.37	8695.45	Begin 2°/100 Build
10155.45	17223.93	94.37	180.12	-5093.89	-1042.59	5096.06	8714.14	Hold 94.37° Inc
10100.10	17950.07	94.37	180.12	-5817.92	-1044.16	5820.09	9438.17	TD at 17950.07





## **PICEANCE VLY NAD 83**

**GV 05-07S-096W**

**MV 34-5 Pad**

**GM 705-34-8-HN1 - Slot B15**

**Wellbore #1**

**Plan: Plan #3 16Jul14 kjs**

## **Standard Plan - Geographic with VS**

**17 July, 2014**



**WPX**  
Standard Plan - Geographic with VS

<b>Company:</b>	PICEANCE VLY NAD 83	<b>Local Co-ordinate Reference:</b>	Well GM 705-34-8-HN1 - Slot B15
<b>Project:</b>	GV 05-07S-096W	<b>TVD Reference:</b>	KELLY BUSHING @ 6010.00usft
<b>Site:</b>	MV 34-5 Pad	<b>MD Reference:</b>	KELLY BUSHING @ 6010.00usft
<b>Well:</b>	GM 705-34-8-HN1	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Plan #3 16Jul14 kjs	<b>Database:</b>	COMPASS-PICEANCE

<b>Project</b>	GV 05-07S-096W, Garfield County, CO, 05-07S-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

<b>Site</b>	MV 34-5 Pad		
<b>Site Position:</b>		<b>Northing:</b>	1,603,540.12600 usft
<b>From:</b>	Map	<b>Easting:</b>	2,258,825.25200 usft
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13.200 in
		<b>Latitude:</b>	39.46108
		<b>Longitude:</b>	-108.12548
		<b>Grid Convergence:</b>	-1.66 °

Well		GM 705-34-8-HN1 - Slot B15				
Well Position	+N/-S	0.00 usft	Northing:	1,603,556.86898 usft	Latitude:	39.46113
	+E/-W	-0.04 usft	Easting:	2,258,836.15000 usft	Longitude:	-108.12544
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	5,977.00 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	12/19/2013	10.05	65.63	52,004

<b>Design</b>	Plan #3 16Jul14 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 (bearing)</b>
	0.00	0.00	-0.04	180.12

<b>Survey Tool Program</b>	<b>Date</b>	7/17/2014		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.00	17,950.07	Plan #3 16Jul14 kjs (Wellbore #1)	MWD	MWD - Standard



**WPX**  
Standard Plan - Geographic with VS

<b>Company:</b>	PICEANCE VLY NAD 83	<b>Local Co-ordinate Reference:</b>	Well GM 705-34-8-HN1 - Slot B15
<b>Project:</b>	GV 05-07S-096W	<b>TVD Reference:</b>	KELLY BUSHING @ 6010.00usft
<b>Site:</b>	MV 34-5 Pad	<b>MD Reference:</b>	KELLY BUSHING @ 6010.00usft
<b>Well:</b>	GM 705-34-8-HN1	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Plan #3 16Jul14 kjs	<b>Database:</b>	COMPASS-PICEANCE

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (bearing)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Northing (usft)	Easting (usft)	Latitude (°)	Longitude (°)	
0.00	0.00	0.00	0.00	0.00	-0.04	0.00	1,603,556.86898	2,258,836.15000	39.46	-108.13	
200.00	0.00	0.00	200.00	0.00	-0.04	0.00	1,603,556.86898	2,258,836.15000	39.46	-108.13	
300.00	0.00	0.00	300.00	0.00	-0.04	0.00	1,603,556.86898	2,258,836.15000	39.46	-108.13	
<b>Start Build 3.00</b>											
400.00	3.00	330.63	399.95	2.28	-1.32	-2.28	1,603,559.18604	2,258,834.93288	39.46	-108.13	
600.00	9.00	330.63	598.77	20.49	-11.57	-20.47	1,603,577.68442	2,258,825.21588	39.46	-108.13	
690.81	11.72	330.63	688.09	34.72	-19.58	-34.68	1,603,592.14273	2,258,817.62109	39.46	-108.13	
<b>Hold 11.72° Inc, 330.63° Az</b>											
800.00	11.72	330.63	795.00	54.06	-30.46	-54.00	1,603,611.78469	2,258,807.30339	39.46	-108.13	
1,000.00	11.72	330.63	990.83	89.48	-50.39	-89.37	1,603,647.76226	2,258,788.40478	39.46	-108.13	
1,200.00	11.72	330.63	1,186.65	124.90	-70.33	-124.75	1,603,683.73982	2,258,769.50616	39.46	-108.13	
1,400.00	11.72	330.63	1,382.48	160.31	-90.26	-160.13	1,603,719.71739	2,258,750.60755	39.46	-108.13	
1,600.00	11.72	330.63	1,578.31	195.73	-110.19	-195.50	1,603,755.69496	2,258,731.70893	39.46	-108.13	
1,800.00	11.72	330.63	1,774.14	231.15	-130.12	-230.88	1,603,791.67253	2,258,712.81031	39.46	-108.13	
2,000.00	11.72	330.63	1,969.96	266.57	-150.05	-266.26	1,603,827.65010	2,258,693.91170	39.46	-108.13	
2,200.00	11.72	330.63	2,165.79	301.99	-169.98	-301.63	1,603,863.62767	2,258,675.01308	39.46	-108.13	
2,400.00	11.72	330.63	2,361.62	337.40	-189.91	-337.01	1,603,899.60524	2,258,656.11447	39.46	-108.13	
2,600.00	11.72	330.63	2,557.45	372.82	-209.84	-372.38	1,603,935.58281	2,258,637.21585	39.46	-108.13	
2,720.06	11.72	330.63	2,675.00	394.08	-221.81	-393.62	1,603,957.18004	2,258,625.87106	39.46	-108.13	
<b>13 3/8"</b>											
2,800.00	11.72	330.63	2,753.27	408.24	-229.77	-407.76	1,603,971.56038	2,258,618.31723	39.46	-108.13	
3,000.00	11.72	330.63	2,949.10	443.66	-249.71	-443.14	1,604,007.53794	2,258,599.41862	39.46	-108.13	
3,200.00	11.72	330.63	3,144.93	479.08	-269.64	-478.51	1,604,043.51551	2,258,580.52000	39.46	-108.13	
3,400.00	11.72	330.63	3,340.75	514.49	-289.57	-513.89	1,604,079.49308	2,258,561.62139	39.46	-108.13	
3,600.00	11.72	330.63	3,536.58	549.91	-309.50	-549.26	1,604,115.47065	2,258,542.72277	39.46	-108.13	
3,800.00	11.72	330.63	3,732.41	585.33	-329.43	-584.64	1,604,151.44822	2,258,523.82415	39.46	-108.13	
4,000.00	11.72	330.63	3,928.24	620.75	-349.36	-620.02	1,604,187.42579	2,258,504.92554	39.46	-108.13	
4,200.00	11.72	330.63	4,124.06	656.17	-369.29	-655.39	1,604,223.40336	2,258,486.02692	39.46	-108.13	



# WPX

## Standard Plan - Geographic with VS

<b>Company:</b>	PICEANCE VLY NAD 83	<b>Local Co-ordinate Reference:</b>	Well GM 705-34-8-HN1 - Slot B15
<b>Project:</b>	GV 05-07S-096W	<b>TVD Reference:</b>	KELLY BUSHING @ 6010.00usft
<b>Site:</b>	MV 34-5 Pad	<b>MD Reference:</b>	KELLY BUSHING @ 6010.00usft
<b>Well:</b>	GM 705-34-8-HN1	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Plan #3 16Jul14 kjs	<b>Database:</b>	COMPASS-PICEANCE

Planned Survey										
MD (usft)	Inc (°)	Azi (azimuth) (bearing)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Northing (usft)	Easting (usft)	Latitude (°)	Longitude (°)
4,400.00	11.72	330.63	4,319.89	691.58	-389.22	-690.77	1,604,259.38093	2,258,467.12831	39.46	-108.13
4,600.00	11.72	330.63	4,515.72	727.00	-409.16	-726.15	1,604,295.35850	2,258,448.22969	39.46	-108.13
4,800.00	11.72	330.63	4,711.55	762.42	-429.09	-761.52	1,604,331.33606	2,258,429.33107	39.46	-108.13
5,000.00	11.72	330.63	4,907.37	797.84	-449.02	-796.90	1,604,367.31363	2,258,410.43246	39.46	-108.13
5,200.00	11.72	330.63	5,103.20	833.26	-468.95	-832.27	1,604,403.29120	2,258,391.53384	39.46	-108.13
5,400.00	11.72	330.63	5,299.03	868.68	-488.88	-867.65	1,604,439.26877	2,258,372.63523	39.46	-108.13
5,600.00	11.72	330.63	5,494.85	904.09	-508.81	-903.03	1,604,475.24634	2,258,353.73661	39.46	-108.13
5,800.00	11.72	330.63	5,690.68	939.51	-528.74	-938.40	1,604,511.22391	2,258,334.83799	39.46	-108.13
6,000.00	11.72	330.63	5,886.51	974.93	-548.67	-973.78	1,604,547.20148	2,258,315.93938	39.46	-108.13
6,200.00	11.72	330.63	6,082.34	1,010.35	-568.61	-1,009.16	1,604,583.17905	2,258,297.04076	39.46	-108.13
6,400.00	11.72	330.63	6,278.16	1,045.77	-588.54	-1,044.53	1,604,619.15662	2,258,278.14215	39.46	-108.13
6,600.00	11.72	330.63	6,473.99	1,081.18	-608.47	-1,079.91	1,604,655.13418	2,258,259.24353	39.46	-108.13
6,800.00	11.72	330.63	6,669.82	1,116.60	-628.40	-1,115.28	1,604,691.11175	2,258,240.34491	39.46	-108.13
7,000.00	11.72	330.63	6,865.64	1,152.02	-648.33	-1,150.66	1,604,727.08932	2,258,221.44630	39.46	-108.13
7,200.00	11.72	330.63	7,061.47	1,187.44	-668.26	-1,186.04	1,604,763.06689	2,258,202.54768	39.46	-108.13
7,400.00	11.72	330.63	7,257.30	1,222.86	-688.19	-1,221.41	1,604,799.04446	2,258,183.64907	39.46	-108.13
7,600.00	11.72	330.63	7,453.13	1,258.27	-708.12	-1,256.79	1,604,835.02203	2,258,164.75045	39.46	-108.13
7,800.00	11.72	330.63	7,648.95	1,293.69	-728.05	-1,292.17	1,604,870.99960	2,258,145.85183	39.46	-108.13
8,000.00	11.72	330.63	7,844.78	1,329.11	-747.99	-1,327.54	1,604,906.97717	2,258,126.95322	39.46	-108.13
8,200.00	11.72	330.63	8,040.61	1,364.53	-767.92	-1,362.92	1,604,942.95474	2,258,108.05460	39.46	-108.13
8,400.00	11.72	330.63	8,236.44	1,399.95	-787.85	-1,398.29	1,604,978.93230	2,258,089.15599	39.46	-108.13
8,600.00	11.72	330.63	8,432.26	1,435.36	-807.78	-1,433.67	1,605,014.90987	2,258,070.25737	39.47	-108.13
8,800.00	11.72	330.63	8,628.09	1,470.78	-827.71	-1,469.05	1,605,050.88744	2,258,051.35875	39.47	-108.13
9,000.00	11.72	330.63	8,823.92	1,506.20	-847.64	-1,504.42	1,605,086.86501	2,258,032.46014	39.47	-108.13
9,200.00	11.72	330.63	9,019.74	1,541.62	-867.57	-1,539.80	1,605,122.84258	2,258,013.56152	39.47	-108.13
9,400.00	11.72	330.63	9,215.57	1,577.04	-887.50	-1,575.17	1,605,158.82015	2,257,994.66291	39.47	-108.13
9,600.00	11.72	330.63	9,411.40	1,612.45	-907.44	-1,610.55	1,605,194.79772	2,257,975.76429	39.47	-108.13



**WPX**  
Standard Plan - Geographic with VS

<b>Company:</b>	PICEANCE VLY NAD 83	<b>Local Co-ordinate Reference:</b>	Well GM 705-34-8-HN1 - Slot B15
<b>Project:</b>	GV 05-07S-096W	<b>TVD Reference:</b>	KELLY BUSHING @ 6010.00usft
<b>Site:</b>	MV 34-5 Pad	<b>MD Reference:</b>	KELLY BUSHING @ 6010.00usft
<b>Well:</b>	GM 705-34-8-HN1	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Plan #3 16Jul14 kjs	<b>Database:</b>	COMPASS-PICEANCE

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (bearing)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Northing (usft)	Easting (usft)	Latitude (°)	Longitude (°)	
9,800.00	11.72	330.63	9,607.23	1,647.87	-927.37	-1,645.93	1,605,230.77529	2,257,956.86567	39.47	-108.13	
9,803.14	11.72	330.63	9,610.30	1,648.43	-927.68	-1,646.48	1,605,231.34014	2,257,956.56897	39.47	-108.13	
<b>9 5/8"</b>											
9,903.14	11.72	330.63	9,708.21	1,666.14	-937.65	-1,664.17	1,605,249.32893	2,257,947.11965	39.47	-108.13	
<b>KOP 8°/100</b>											
10,000.00	6.36	292.72	9,803.91	1,676.80	-947.44	-1,674.81	1,605,260.27079	2,257,937.64277	39.47	-108.13	
10,200.00	14.79	203.42	10,001.27	1,657.53	-967.93	-1,655.50	1,605,241.59754	2,257,916.59908	39.47	-108.13	
10,400.00	30.12	190.67	10,185.65	1,584.31	-987.49	-1,582.24	1,605,168.97924	2,257,894.93219	39.47	-108.13	
10,600.00	45.89	186.16	10,342.78	1,462.82	-1,004.60	-1,460.72	1,605,048.04213	2,257,874.32077	39.47	-108.13	
10,800.00	61.76	183.60	10,460.47	1,302.48	-1,017.93	-1,300.34	1,604,888.15600	2,257,856.36172	39.46	-108.13	
11,000.00	77.66	181.72	10,529.62	1,115.70	-1,026.46	-1,113.54	1,604,701.70829	2,257,842.44645	39.46	-108.13	
11,191.89	92.93	180.12	10,545.32	925.05	-1,029.49	-922.89	1,604,511.24000	2,257,833.89995	39.46	-108.13	
<b>Landing Pt 92.93° Inc, 180.12° Az - LP GM 705-34-8-HN1</b>											
11,200.00	92.93	180.12	10,544.91	916.95	-1,029.51	-914.79	1,604,503.14196	2,257,833.64827	39.46	-108.13	
11,400.00	92.93	180.12	10,534.69	717.21	-1,029.95	-715.05	1,604,303.50830	2,257,827.44264	39.46	-108.13	
11,600.00	92.93	180.12	10,524.48	517.47	-1,030.38	-515.31	1,604,103.87464	2,257,821.23702	39.46	-108.13	
11,800.00	92.93	180.12	10,514.26	317.73	-1,030.82	-315.58	1,603,904.24098	2,257,815.03139	39.46	-108.13	
12,000.00	92.93	180.12	10,504.04	118.00	-1,031.25	-115.84	1,603,704.60732	2,257,808.82576	39.46	-108.13	
12,193.22	92.93	180.12	10,494.18	-74.97	-1,031.67	77.13	1,603,511.74372	2,257,802.83058	39.46	-108.13	
<b>IP #1 GM 705-34-8-HN1</b>											
12,200.00	92.93	180.12	10,493.83	-81.74	-1,031.68	83.90	1,603,504.97366	2,257,802.62013	39.46	-108.13	
12,400.00	92.93	180.12	10,483.61	-281.48	-1,032.12	283.64	1,603,305.34000	2,257,796.41451	39.46	-108.13	
12,600.00	92.93	180.12	10,473.40	-481.22	-1,032.55	483.38	1,603,105.70634	2,257,790.20888	39.46	-108.13	
12,800.00	92.93	180.12	10,463.18	-680.96	-1,032.99	683.12	1,602,906.07268	2,257,784.00325	39.46	-108.13	
13,000.00	92.93	180.12	10,452.97	-880.70	-1,033.42	882.86	1,602,706.43902	2,257,777.79762	39.46	-108.13	
13,194.59	92.93	180.12	10,443.03	-1,075.03	-1,033.85	1,077.19	1,602,512.21000	2,257,771.76000	39.46	-108.13	
<b>Begin 2°/100 Build - IP #2 GM 705-34-8-HN1</b>											
13,200.00	93.04	180.12	10,442.75	-1,080.44	-1,033.86	1,082.60	1,602,506.80563	2,257,771.59200	39.46	-108.13	



**WPX**  
Standard Plan - Geographic with VS

**Company:** PICEANCE VLY NAD 83  
**Project:** GV 05-07S-096W  
**Site:** MV 34-5 Pad  
**Well:** GM 705-34-8-HN1  
**Wellbore:** Wellbore #1  
**Design:** Plan #3 16Jul14 kjs

**Local Co-ordinate Reference:** Well GM 705-34-8-HN1 - Slot B15  
**TVD Reference:** KELLY BUSHING @ 6010.00usft  
**MD Reference:** KELLY BUSHING @ 6010.00usft  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** COMPASS-PICEANCE

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (bearing)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Northing (usft)	Easting (usft)	Latitude (°)	Longitude (°)	
13,213.72	93.31	180.12	10,441.99	-1,094.14	-1,033.89	1,096.30	1,602,493.11201	2,257,771.16634	39.46	-108.13	
<b>Hold 93.31° Inc</b>											
13,400.00	93.31	180.12	10,431.23	-1,280.10	-1,034.29	1,282.27	1,602,307.24276	2,257,765.38861	39.46	-108.13	
13,600.00	93.31	180.12	10,419.68	-1,479.77	-1,034.73	1,481.93	1,602,107.68174	2,257,759.18527	39.46	-108.13	
13,800.00	93.31	180.12	10,408.13	-1,679.43	-1,035.16	1,681.60	1,601,908.12072	2,257,752.98193	39.46	-108.13	
14,000.00	93.31	180.12	10,396.59	-1,879.10	-1,035.59	1,881.26	1,601,708.55970	2,257,746.77859	39.46	-108.13	
14,196.30	93.31	180.12	10,385.25	-2,075.07	-1,036.02	2,077.24	1,601,512.69000	2,257,740.69000	39.46	-108.13	
<b>Begin 2°/100 Build - IP #3 GM 705-34-8-HN1</b>											
14,200.00	93.38	180.12	10,385.03	-2,078.77	-1,036.03	2,080.93	1,601,508.99882	2,257,740.57526	39.46	-108.13	
14,239.71	94.18	180.12	10,382.42	-2,118.38	-1,036.11	2,120.55	1,601,469.40137	2,257,739.34438	39.46	-108.13	
<b>Hold 94.18° Inc</b>											
14,400.00	94.18	180.12	10,370.74	-2,278.25	-1,036.46	2,280.42	1,601,309.61679	2,257,734.37749	39.45	-108.13	
14,600.00	94.18	180.12	10,356.16	-2,477.72	-1,036.90	2,479.89	1,601,110.25354	2,257,728.18029	39.45	-108.13	
14,800.00	94.18	180.12	10,341.59	-2,677.19	-1,037.33	2,679.35	1,600,910.89028	2,257,721.98310	39.45	-108.13	
15,000.00	94.18	180.12	10,327.02	-2,876.66	-1,037.76	2,878.82	1,600,711.52702	2,257,715.78591	39.45	-108.13	
15,198.99	94.18	180.12	10,312.52	-3,075.12	-1,038.20	3,077.28	1,600,513.17000	2,257,709.62000	39.45	-108.13	
<b>Begin 2°/100 Build - IP #4 GM 705-35-8-HN1</b>											
15,200.00	94.20	180.12	10,312.45	-3,076.12	-1,038.20	3,078.29	1,600,512.16378	2,257,709.58872	39.45	-108.13	
15,234.97	94.90	180.12	10,309.67	-3,110.98	-1,038.27	3,113.15	1,600,477.32446	2,257,708.50574	39.45	-108.13	
<b>Hold 94.9° Inc</b>											
15,400.00	94.90	180.12	10,295.58	-3,275.41	-1,038.63	3,277.58	1,600,312.98178	2,257,703.39717	39.45	-108.13	
15,600.00	94.90	180.12	10,278.51	-3,474.68	-1,039.06	3,476.85	1,600,113.81713	2,257,697.20615	39.45	-108.13	
15,800.00	94.90	180.12	10,261.43	-3,673.95	-1,039.50	3,676.12	1,599,914.65248	2,257,691.01513	39.45	-108.13	
16,000.00	94.90	180.12	10,244.36	-3,873.22	-1,039.93	3,875.39	1,599,715.48783	2,257,684.82411	39.45	-108.13	
16,200.00	94.90	180.12	10,227.28	-4,072.49	-1,040.36	4,074.66	1,599,516.32318	2,257,678.63310	39.45	-108.13	
16,202.68	94.90	180.12	10,227.05	-4,075.16	-1,040.37	4,077.33	1,599,513.65000	2,257,678.55000	39.45	-108.13	
<b>Begin 2°/100 Drop - IP #5 GM 705-35-8-HN1</b>											



# WPX

## Standard Plan - Geographic with VS

<b>Company:</b>	PICEANCE VLY NAD 83	<b>Local Co-ordinate Reference:</b>	Well GM 705-34-8-HN1 - Slot B15
<b>Project:</b>	GV 05-07S-096W	<b>TVD Reference:</b>	KELLY BUSHING @ 6010.00usft
<b>Site:</b>	MV 34-5 Pad	<b>MD Reference:</b>	KELLY BUSHING @ 6010.00usft
<b>Well:</b>	GM 705-34-8-HN1	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Plan #3 16Jul14 kjs	<b>Database:</b>	COMPASS-PICEANCE

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (bearing)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Northing (usft)	Easting (usft)	Latitude (°)	Longitude (°)	
16,247.73	94.00	180.12	10,223.56	-4,120.07	-1,040.47	4,122.24	1,599,468.76416	2,257,677.15472	39.45	-108.13	
<b>Hold 94° Inc</b>											
16,400.00	94.00	180.12	10,212.94	-4,271.97	-1,040.80	4,274.14	1,599,316.94458	2,257,672.43537	39.45	-108.13	
16,600.00	94.00	180.12	10,199.00	-4,471.48	-1,041.23	4,473.65	1,599,117.53619	2,257,666.23671	39.45	-108.13	
16,800.00	94.00	180.12	10,185.06	-4,671.00	-1,041.67	4,673.17	1,598,918.12780	2,257,660.03806	39.45	-108.13	
17,000.00	94.00	180.12	10,171.12	-4,870.51	-1,042.10	4,872.68	1,598,718.71941	2,257,653.83940	39.45	-108.13	
17,200.00	94.00	180.12	10,157.18	-5,070.02	-1,042.53	5,072.19	1,598,519.31102	2,257,647.64074	39.45	-108.13	
17,205.19	94.00	180.12	10,156.82	-5,075.20	-1,042.55	5,077.37	1,598,514.14000	2,257,647.48000	39.45	-108.13	
<b>Begin 2°/100 Build - IP #6 GM 705-35-8-HN1</b>											
17,223.93	94.37	180.12	10,155.45	-5,093.89	-1,042.59	5,096.06	1,598,495.45621	2,257,646.89928	39.45	-108.13	
<b>Hold 94.37° Inc</b>											
17,400.00	94.37	180.12	10,142.03	-5,269.45	-1,042.97	5,271.62	1,598,319.99101	2,257,641.44622	39.45	-108.13	
17,600.00	94.37	180.12	10,126.79	-5,468.87	-1,043.40	5,471.04	1,598,120.67801	2,257,635.25203	39.45	-108.13	
17,800.00	94.37	180.12	10,111.54	-5,668.28	-1,043.83	5,670.46	1,597,921.36501	2,257,629.05783	39.45	-108.13	
17,876.20	94.37	180.12	10,105.73	-5,744.26	-1,044.00	5,746.43	1,597,845.42997	2,257,626.69794	39.45	-108.13	
<b>EOC GM 705-34-8-HN1</b>											
17,950.07	94.37	180.12	10,100.10	-5,817.92	-1,044.16	5,820.09	1,597,771.81000	2,257,624.41000	39.45	-108.13	
<b>TD at 17950.07 - TD / PBHL GM 705-34-8-HN1</b>											

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,720.06	2,675.00	13 3/8"	13.375	17.500	
9,803.14	9,610.30	9 5/8"	9.625	13.500	





**WPX**

Standard Plan - Geographic with VS

<b>Company:</b>	PICEANCE VLY NAD 83	<b>Local Co-ordinate Reference:</b>	Well GM 705-34-8-HN1 - Slot B15
<b>Project:</b>	GV 05-07S-096W	<b>TVD Reference:</b>	KELLY BUSHING @ 6010.00usft
<b>Site:</b>	MV 34-5 Pad	<b>MD Reference:</b>	KELLY BUSHING @ 6010.00usft
<b>Well:</b>	GM 705-34-8-HN1	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Plan #3 16Jul14 kjs	<b>Database:</b>	COMPASS-PICEANCE

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
300.00	300.00	0.00	-0.04	Start Build 3.00	
690.81	688.09	34.72	-19.58	Hold 11.72° Inc, 330.63° Az	
9,903.14	9,708.21	1,666.14	-937.65	KOP 8°/100	
11,191.89	10,545.32	925.05	-1,029.49	Landing Pt 92.93° Inc, 180.12° Az	
13,194.59	10,443.03	-1,075.03	-1,033.85	Begin 2°/100 Build	
13,213.72	10,441.99	-1,094.14	-1,033.89	Hold 93.31° Inc	
14,196.30	10,385.25	-2,075.08	-1,036.02	Begin 2°/100 Build	
14,239.71	10,382.42	-2,118.38	-1,036.11	Hold 94.18° Inc	
15,198.99	10,312.52	-3,075.12	-1,038.20	Begin 2°/100 Build	
15,234.97	10,309.67	-3,110.98	-1,038.27	Hold 94.9° Inc	
16,202.68	10,227.05	-4,075.16	-1,040.37	Begin 2°/100 Drop	
16,247.73	10,223.56	-4,120.07	-1,040.47	Hold 94° Inc	
17,205.19	10,156.82	-5,075.20	-1,042.55	Begin 2°/100 Build	
17,223.93	10,155.45	-5,093.89	-1,042.59	Hold 94.37° Inc	
17,950.07	10,100.10	-5,817.92	-1,044.16	TD at 17950.07	

Checked By: _____	Approved By: _____	Date: _____
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