



Well Name: GM 705-34-8-HN2
Surface Location: MV 34-5 Pad
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 5977.00

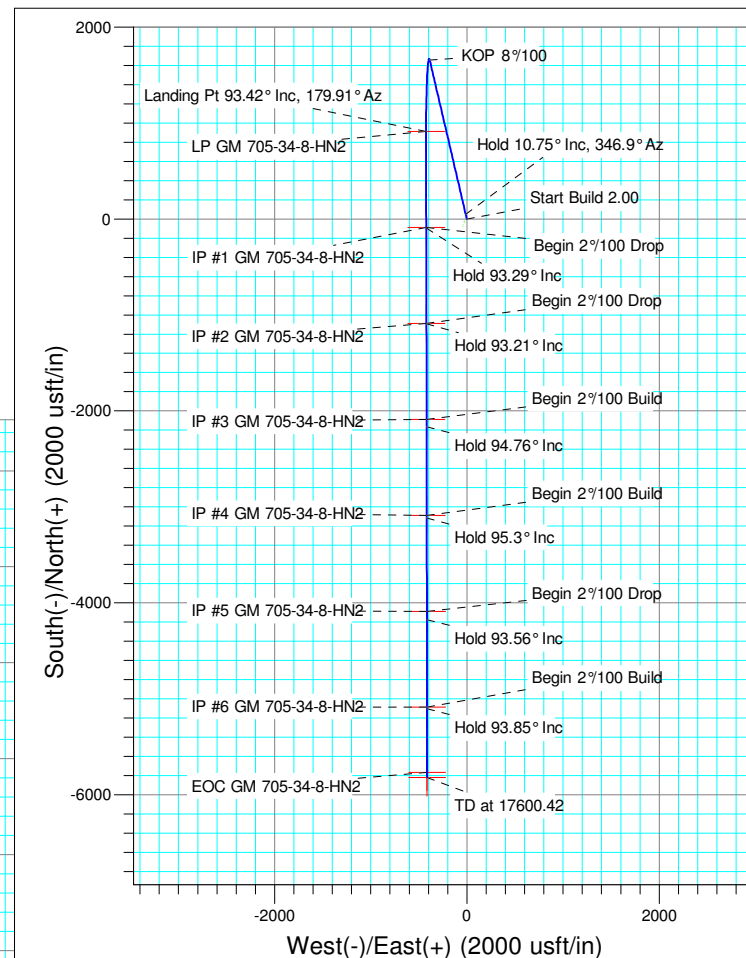
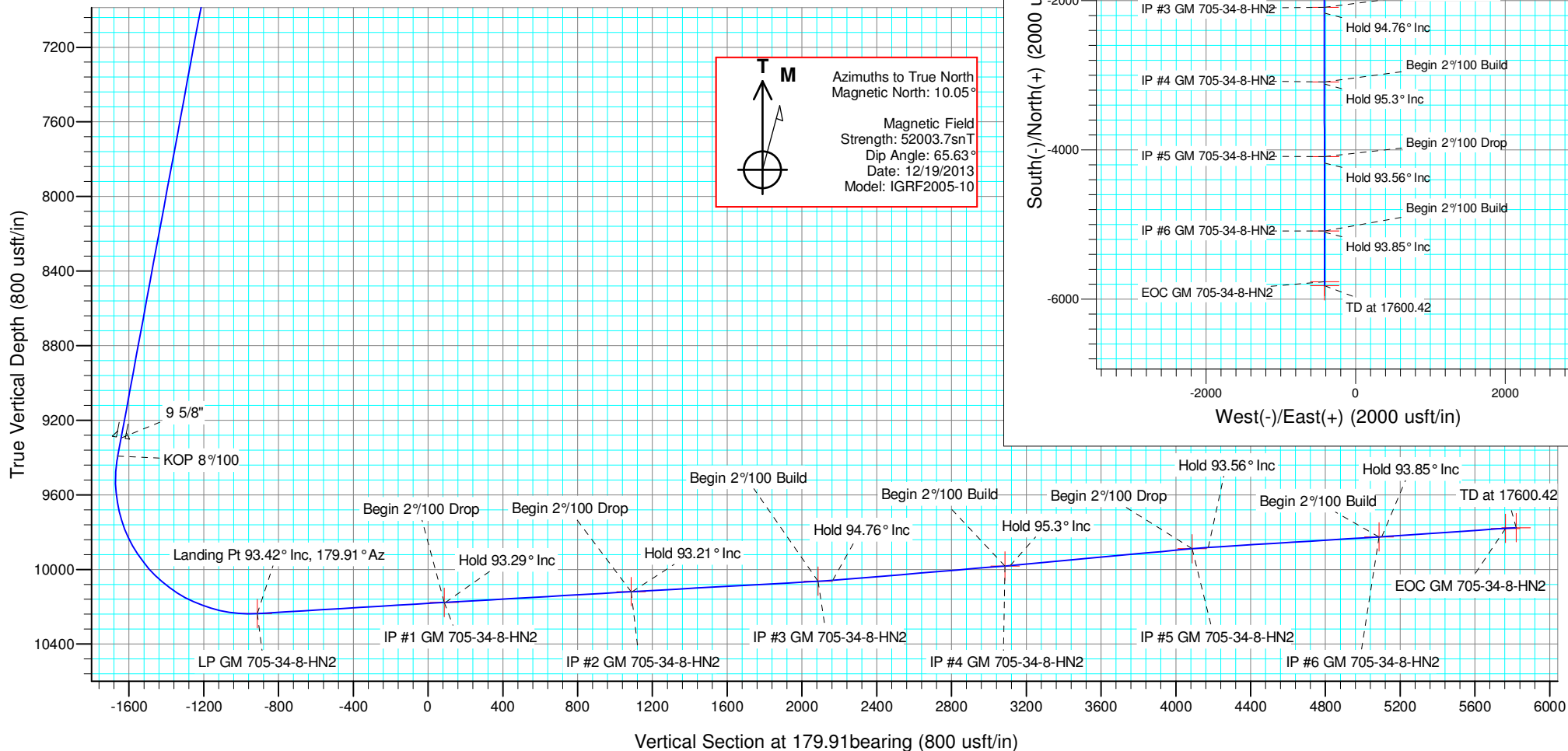
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.03	-0.06	1603565.27000	2258841.60000	39.46115	-108.12542	B14

KELLY BUSHING @ 6010.00usft

Project: GV 05-07S-096W
Site: MV 34-5 Pad
Well: GM 705-34-8-HN2
Plan#3 17Jul14 kjs

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
150.00	150.00	0.00	0.00	0.03	-0.06	0.00	0.00	Start Build 2.00
684.36	687.51	10.75	346.90	49.00	-11.46	-48.99	50.28	Hold 10.75° Inc, 346.9° Az
9393.07	9551.79	10.75	346.90	1659.37	-386.27	-1659.95	1703.70	KOP 8 1/100
10237.29	10850.37	93.42	179.91	912.38	-423.47	-913.01	2479.58	Landing Pt 93.42° Inc, 179.91° Az
10177.55	11852.20	93.42	179.91	-87.67	-421.84	87.03	3479.63	Begin 2 1/100 Drop
10177.18	11858.44	93.29	179.91	-93.90	-421.83	93.26	3485.86	Hold 93.29° Inc
10119.99	12853.90	93.29	179.91	-1087.71	-420.21	1087.08	4479.67	Begin 2 1/100 Drop
10119.75	12858.17	93.21	179.91	-1091.97	-420.21	1091.34	4483.94	Hold 93.21° Inc
10063.93	13855.51	93.21	179.91	-2087.75	-418.59	2087.12	5479.71	Begin 2 1/100 Build
10058.54	13933.06	94.76	179.91	-2165.11	-418.46	2164.48	5557.07	Hold 94.76° Inc
9981.72	14858.94	94.76	179.91	-3087.80	-416.97	3087.17	6479.76	Begin 2 1/100 Build
9979.35	14885.96	95.30	179.91	-3114.72	-416.93	3114.09	6506.68	Hold 95.3° Inc
9889.08	15863.27	95.30	179.91	-4087.85	-415.35	4087.22	7479.81	Begin 2 1/100 Drop
9882.35	15950.47	93.56	179.91	-4174.78	-415.20	4174.15	7566.74	Hold 93.56° Inc
9825.61	16865.34	93.56	179.91	-5087.89	-413.72	5087.26	8479.85	Begin 2 1/100 Build
9824.68	16879.82	93.85	179.91	-5102.34	-413.70	5101.71	8494.30	Hold 93.85° Inc
9776.35	17600.42	93.85	179.91	-5821.31	-412.53	5820.68	9213.28	TD at 17600.42





PICEANCE VLY NAD 83

GV 05-07S-096W

MV 34-5 Pad

GM 705-34-8-HN2 - Slot B14

Wellbore #1

Plan: Plan#3 17Jul14 kjs

Standard Plan - Geographic with VS

17 July, 2014



WPX
Standard Plan - Geographic with VS

Company:	PICEANCE VLY NAD 83	Local Co-ordinate Reference:	Well GM 705-34-8-HN2 - Slot B14
Project:	GV 05-07S-096W	TVD Reference:	KELLY BUSHING @ 6010.00usft
Site:	MV 34-5 Pad	MD Reference:	KELLY BUSHING @ 6010.00usft
Well:	GM 705-34-8-HN2	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan#3 17Jul14 kjs	Database:	COMPASS-PICEANCE

Project	GV 05-07S-096W, Garfield County, CO, 05-07S-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 34-5 Pad		
Site Position:		Northing:	1,603,540.12600 usft
From:	Map	Easting:	2,258,825.25200 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	39.46108
		Longitude:	-108.12548
		Grid Convergence:	-1.66 °

Well		GM 705-34-8-HN2 - Slot B14				
Well Position	+N/-S	0.03 usft	Northing:	1,603,565.27000 usft	Latitude:	39.46115
	+E/-W	-0.06 usft	Easting:	2,258,841.60000 usft	Longitude:	-108.12542
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	5,977.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2005-10	12/19/2013	10.05	65.63	52,004

Design	Plan#3 17Jul14 kjs			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (bearing)
	0.00	0.03	-0.06	179.91

Survey Tool Program	Date	7/17/2014		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	17,600.42	Plan#3 17Jul14 kjs (Wellbore #1)	MWD	MWD - Standard



WPX
Standard Plan - Geographic with VS

Company:	PICEANCE VLY NAD 83	Local Co-ordinate Reference:	Well GM 705-34-8-HN2 - Slot B14
Project:	GV 05-07S-096W	TVD Reference:	KELLY BUSHING @ 6010.00usft
Site:	MV 34-5 Pad	MD Reference:	KELLY BUSHING @ 6010.00usft
Well:	GM 705-34-8-HN2	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan#3 17Jul14 kjs	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 (°)	
0.00	0.00	0.00	0.00	0.03	-0.06	0.00	1,603,565.27000	2,258,841.60000	39.46	-108.13	
150.00	0.00	0.00	150.00	0.03	-0.06	0.00	1,603,565.27000	2,258,841.60000	39.46	-108.13	
Start Build 2.00											
200.00	1.00	346.90	200.00	0.45	-0.16	-0.43	1,603,565.69762	2,258,841.51342	39.46	-108.13	
400.00	5.00	346.90	399.68	10.65	-2.53	-10.62	1,603,575.95409	2,258,839.43670	39.46	-108.13	
600.00	9.00	346.90	598.15	34.38	-8.06	-34.36	1,603,599.83727	2,258,834.60086	39.46	-108.13	
687.51	10.75	346.90	684.36	49.00	-11.46	-48.99	1,603,614.54559	2,258,831.62273	39.46	-108.13	
Hold 10.75° Inc, 346.9° Az											
800.00	10.75	346.90	794.88	69.43	-16.21	-69.43	1,603,635.10967	2,258,827.45894	39.46	-108.13	
1,000.00	10.75	346.90	991.37	105.77	-24.67	-105.78	1,603,671.67127	2,258,820.05599	39.46	-108.13	
1,200.00	10.75	346.90	1,187.86	142.10	-33.13	-142.12	1,603,708.23287	2,258,812.65304	39.46	-108.13	
1,400.00	10.75	346.90	1,384.35	178.43	-41.58	-178.47	1,603,744.79447	2,258,805.25009	39.46	-108.13	
1,600.00	10.75	346.90	1,580.84	214.77	-50.04	-214.82	1,603,781.35607	2,258,797.84714	39.46	-108.13	
1,800.00	10.75	346.90	1,777.33	251.10	-58.50	-251.17	1,603,817.91767	2,258,790.44419	39.46	-108.13	
2,000.00	10.75	346.90	1,973.82	287.44	-66.95	-287.51	1,603,854.47927	2,258,783.04124	39.46	-108.13	
2,200.00	10.75	346.90	2,170.31	323.77	-75.41	-323.86	1,603,891.04087	2,258,775.63829	39.46	-108.13	
2,400.00	10.75	346.90	2,366.80	360.11	-83.87	-360.21	1,603,927.60247	2,258,768.23534	39.46	-108.13	
2,600.00	10.75	346.90	2,563.29	396.44	-92.32	-396.56	1,603,964.16407	2,258,760.83239	39.46	-108.13	
2,713.71	10.75	346.90	2,675.00	417.10	-97.13	-417.22	1,603,984.95079	2,258,756.62352	39.46	-108.13	
13 3/8"											
2,800.00	10.75	346.90	2,759.78	432.77	-100.78	-432.90	1,604,000.72567	2,258,753.42944	39.46	-108.13	
3,000.00	10.75	346.90	2,956.27	469.11	-109.24	-469.25	1,604,037.28727	2,258,746.02649	39.46	-108.13	
3,200.00	10.75	346.90	3,152.76	505.44	-117.69	-505.60	1,604,073.84887	2,258,738.62354	39.46	-108.13	
3,400.00	10.75	346.90	3,349.25	541.78	-126.15	-541.94	1,604,110.41048	2,258,731.22058	39.46	-108.13	
3,600.00	10.75	346.90	3,545.74	578.11	-134.61	-578.29	1,604,146.97208	2,258,723.81763	39.46	-108.13	
3,800.00	10.75	346.90	3,742.23	614.44	-143.06	-614.64	1,604,183.53368	2,258,716.41468	39.46	-108.13	
4,000.00	10.75	346.90	3,938.72	650.78	-151.52	-650.99	1,604,220.09528	2,258,709.01173	39.46	-108.13	
4,200.00	10.75	346.90	4,135.21	687.11	-159.98	-687.33	1,604,256.65688	2,258,701.60878	39.46	-108.13	



WPX
Standard Plan - Geographic with VS

Company:	PICEANCE VLY NAD 83	Local Co-ordinate Reference:	Well GM 705-34-8-HN2 - Slot B14
Project:	GV 05-07S-096W	TVD Reference:	KELLY BUSHING @ 6010.00usft
Site:	MV 34-5 Pad	MD Reference:	KELLY BUSHING @ 6010.00usft
Well:	GM 705-34-8-HN2	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan#3 17Jul14 kjs	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 (°)
4,400.00	10.75	346.90	4,331.70	723.45	-168.43	-723.68	1,604,293.21848	2,258,694.20583	39.46	-108.13
4,600.00	10.75	346.90	4,528.19	759.78	-176.89	-760.03	1,604,329.78008	2,258,686.80288	39.46	-108.13
4,800.00	10.75	346.90	4,724.68	796.11	-185.35	-796.38	1,604,366.34168	2,258,679.39993	39.46	-108.13
5,000.00	10.75	346.90	4,921.17	832.45	-193.80	-832.72	1,604,402.90328	2,258,671.99698	39.46	-108.13
5,200.00	10.75	346.90	5,117.66	868.78	-202.26	-869.07	1,604,439.46488	2,258,664.59403	39.46	-108.13
5,400.00	10.75	346.90	5,314.15	905.12	-210.72	-905.42	1,604,476.02648	2,258,657.19108	39.46	-108.13
5,600.00	10.75	346.90	5,510.64	941.45	-219.17	-941.76	1,604,512.58808	2,258,649.78813	39.46	-108.13
5,800.00	10.75	346.90	5,707.13	977.78	-227.63	-978.11	1,604,549.14968	2,258,642.38517	39.46	-108.13
6,000.00	10.75	346.90	5,903.62	1,014.12	-236.09	-1,014.46	1,604,585.71129	2,258,634.98222	39.46	-108.13
6,200.00	10.75	346.90	6,100.11	1,050.45	-244.54	-1,050.81	1,604,622.27289	2,258,627.57927	39.46	-108.13
6,400.00	10.75	346.90	6,296.60	1,086.79	-253.00	-1,087.15	1,604,658.83449	2,258,620.17632	39.46	-108.13
6,600.00	10.75	346.90	6,493.09	1,123.12	-261.46	-1,123.50	1,604,695.39609	2,258,612.77337	39.46	-108.13
6,800.00	10.75	346.90	6,689.58	1,159.45	-269.91	-1,159.85	1,604,731.95769	2,258,605.37042	39.46	-108.13
7,000.00	10.75	346.90	6,886.07	1,195.79	-278.37	-1,196.20	1,604,768.51929	2,258,597.96747	39.46	-108.13
7,200.00	10.75	346.90	7,082.56	1,232.12	-286.83	-1,232.54	1,604,805.08089	2,258,590.56452	39.46	-108.13
7,400.00	10.75	346.90	7,279.05	1,268.46	-295.28	-1,268.89	1,604,841.64249	2,258,583.16157	39.46	-108.13
7,600.00	10.75	346.90	7,475.54	1,304.79	-303.74	-1,305.24	1,604,878.20409	2,258,575.75862	39.46	-108.13
7,800.00	10.75	346.90	7,672.03	1,341.12	-312.20	-1,341.58	1,604,914.76569	2,258,568.35567	39.46	-108.13
8,000.00	10.75	346.90	7,868.52	1,377.46	-320.65	-1,377.93	1,604,951.32729	2,258,560.95272	39.46	-108.13
8,200.00	10.75	346.90	8,065.01	1,413.79	-329.11	-1,414.28	1,604,987.88889	2,258,553.54977	39.47	-108.13
8,400.00	10.75	346.90	8,261.50	1,450.13	-337.57	-1,450.63	1,605,024.45049	2,258,546.14681	39.47	-108.13
8,600.00	10.75	346.90	8,457.99	1,486.46	-346.02	-1,486.97	1,605,061.01209	2,258,538.74386	39.47	-108.13
8,800.00	10.75	346.90	8,654.48	1,522.79	-354.48	-1,523.32	1,605,097.57370	2,258,531.34091	39.47	-108.13
9,000.00	10.75	346.90	8,850.97	1,559.13	-362.94	-1,559.67	1,605,134.13530	2,258,523.93796	39.47	-108.13
9,200.00	10.75	346.90	9,047.46	1,595.46	-371.40	-1,596.02	1,605,170.69690	2,258,516.53501	39.47	-108.13
9,400.00	10.75	346.90	9,243.95	1,631.80	-379.85	-1,632.36	1,605,207.25850	2,258,509.13206	39.47	-108.13



WPX

Standard Plan - Geographic with VS

Company:	PICEANCE VLY NAD 83	Local Co-ordinate Reference:	Well GM 705-34-8-HN2 - Slot B14
Project:	GV 05-07S-096W	TVD Reference:	KELLY BUSHING @ 6010.00usft
Site:	MV 34-5 Pad	MD Reference:	KELLY BUSHING @ 6010.00usft
Well:	GM 705-34-8-HN2	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan#3 17Jul14 kjs	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 (°)	
9,451.80	10.75	346.90	9,294.84	1,641.21	-382.04	-1,641.78	1,605,216.72795	2,258,507.21470	39.47	-108.13	
9 5/8"											
9,551.79	10.75	346.90	9,393.07	1,659.37	-386.27	-1,659.95	1,605,235.00692	2,258,503.51359	39.47	-108.13	
KOP 8°/100											
9,600.00	7.05	339.61	9,440.70	1,666.53	-388.32	-1,667.11	1,605,242.21966	2,258,501.67014	39.47	-108.13	
9,800.00	9.71	194.68	9,639.80	1,661.69	-396.93	-1,662.29	1,605,237.63603	2,258,492.92533	39.47	-108.13	
10,000.00	25.50	185.25	9,829.86	1,602.11	-405.20	-1,602.72	1,605,178.32287	2,258,482.93721	39.47	-108.13	
10,200.00	41.45	182.86	9,996.15	1,492.41	-412.49	-1,493.02	1,605,068.87553	2,258,472.47961	39.47	-108.13	
10,400.00	57.43	181.64	10,125.78	1,341.07	-418.24	-1,341.70	1,604,917.77365	2,258,462.36276	39.46	-108.13	
10,600.00	73.41	180.79	10,208.72	1,159.83	-422.00	-1,160.46	1,604,736.72406	2,258,453.37048	39.46	-108.13	
10,800.00	89.39	180.08	10,238.53	962.72	-423.47	-963.36	1,604,539.75389	2,258,446.19945	39.46	-108.13	
10,850.37	93.42	179.91	10,237.29	912.38	-423.47	-913.01	1,604,489.43000	2,258,444.75000	39.46	-108.13	
Landing Pt 93.42° Inc, 179.91° Az - LP GM 705-34-8-HN2											
11,000.00	93.42	179.91	10,228.37	763.01	-423.22	-763.65	1,604,340.13096	2,258,440.67711	39.46	-108.13	
11,200.00	93.42	179.91	10,216.44	563.37	-422.90	-564.01	1,604,140.56997	2,258,435.23307	39.46	-108.13	
11,400.00	93.42	179.91	10,204.52	363.73	-422.57	-364.36	1,603,941.00897	2,258,429.78902	39.46	-108.13	
11,600.00	93.42	179.91	10,192.59	164.08	-422.25	-164.72	1,603,741.44798	2,258,424.34498	39.46	-108.13	
11,800.00	93.42	179.91	10,180.66	-35.56	-421.93	34.93	1,603,541.88698	2,258,418.90094	39.46	-108.13	
11,852.20	93.42	179.91	10,177.55	-87.67	-421.84	87.03	1,603,489.80000	2,258,417.48000	39.46	-108.13	
Begin 2°/100 Drop - IP #1 GM 705-34-8-HN2											
11,858.44	93.29	179.91	10,177.18	-93.90	-421.83	93.26	1,603,483.57486	2,258,417.31018	39.46	-108.13	
Hold 93.29° Inc											
12,000.00	93.29	179.91	10,169.05	-235.22	-421.60	234.59	1,603,342.30754	2,258,413.45639	39.46	-108.13	
12,200.00	93.29	179.91	10,157.56	-434.89	-421.28	434.26	1,603,142.72104	2,258,408.01165	39.46	-108.13	
12,400.00	93.29	179.91	10,146.07	-634.56	-420.95	633.93	1,602,943.13454	2,258,402.56692	39.46	-108.13	
12,600.00	93.29	179.91	10,134.58	-834.23	-420.63	833.60	1,602,743.54804	2,258,397.12218	39.46	-108.13	
12,800.00	93.29	179.91	10,123.09	-1,033.90	-420.30	1,033.27	1,602,543.96154	2,258,391.67744	39.46	-108.13	



WPX
Standard Plan - Geographic with VS

Company:	PICEANCE VLY NAD 83	Local Co-ordinate Reference:	Well GM 705-34-8-HN2 - Slot B14
Project:	GV 05-07S-096W	TVD Reference:	KELLY BUSHING @ 6010.00usft
Site:	MV 34-5 Pad	MD Reference:	KELLY BUSHING @ 6010.00usft
Well:	GM 705-34-8-HN2	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan#3 17Jul14 kjs	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 (°)
12,853.90	93.29	179.91	10,119.99	-1,087.71	-420.21	1,087.08	1,602,490.17000	2,258,390.21000	39.46	-108.13
Begin 2°/100 Drop - IP #2 GM 705-34-8-HN2										
12,858.17	93.21	179.91	10,119.75	-1,091.97	-420.21	1,091.34	1,602,485.91162	2,258,390.09383	39.46	-108.13
Hold 93.21° Inc										
13,000.00	93.21	179.91	10,111.81	-1,233.58	-419.98	1,232.95	1,602,344.36287	2,258,386.23233	39.46	-108.13
13,200.00	93.21	179.91	10,100.62	-1,433.27	-419.65	1,432.64	1,602,144.75947	2,258,380.78707	39.46	-108.13
13,400.00	93.21	179.91	10,089.42	-1,632.95	-419.33	1,632.32	1,601,945.15607	2,258,375.34182	39.46	-108.13
13,600.00	93.21	179.91	10,078.23	-1,832.64	-419.00	1,832.01	1,601,745.55267	2,258,369.89657	39.46	-108.13
13,800.00	93.21	179.91	10,067.04	-2,032.33	-418.68	2,031.70	1,601,545.94927	2,258,364.45131	39.46	-108.13
13,855.51	93.21	179.91	10,063.93	-2,087.75	-418.59	2,087.12	1,601,490.55000	2,258,362.94000	39.46	-108.13
Begin 2°/100 Build - IP #3 GM 705-34-8-HN2										
13,933.06	94.76	179.91	10,058.54	-2,165.11	-418.46	2,164.48	1,601,413.22130	2,258,360.83005	39.46	-108.13
Hold 94.76° Inc										
14,000.00	94.76	179.91	10,052.99	-2,231.82	-418.35	2,231.19	1,601,346.53991	2,258,359.01029	39.46	-108.13
14,200.00	94.76	179.91	10,036.39	-2,431.13	-418.03	2,430.50	1,601,147.31256	2,258,353.57327	39.45	-108.13
14,400.00	94.76	179.91	10,019.80	-2,630.44	-417.71	2,629.81	1,600,948.08521	2,258,348.13626	39.45	-108.13
14,600.00	94.76	179.91	10,003.20	-2,829.75	-417.39	2,829.12	1,600,748.85787	2,258,342.69925	39.45	-108.13
14,800.00	94.76	179.91	9,986.61	-3,029.06	-417.07	3,028.43	1,600,549.63052	2,258,337.26224	39.45	-108.13
14,858.94	94.76	179.91	9,981.72	-3,087.79	-416.97	3,087.16	1,600,490.92000	2,258,335.66000	39.45	-108.13
Begin 2°/100 Build - IP #4 GM 705-34-8-HN2										
14,885.96	95.30	179.91	9,979.35	-3,114.71	-416.93	3,114.08	1,600,464.01727	2,258,334.92595	39.45	-108.13
14,885.96	95.30	179.91	9,979.35	-3,114.72	-416.93	3,114.09	1,600,464.00973	2,258,334.92575	39.45	-108.13
Hold 95.3° Inc										
15,000.00	95.30	179.91	9,968.82	-3,228.26	-416.74	3,227.63	1,600,350.50835	2,258,331.82944	39.45	-108.13
15,200.00	95.30	179.91	9,950.34	-3,427.41	-416.42	3,426.78	1,600,151.44624	2,258,326.39903	39.45	-108.13
15,400.00	95.30	179.91	9,931.87	-3,626.55	-416.10	3,625.92	1,599,952.38413	2,258,320.96863	39.45	-108.13
15,600.00	95.30	179.91	9,913.40	-3,825.70	-415.77	3,825.07	1,599,753.32203	2,258,315.53822	39.45	-108.13
15,800.00	95.30	179.91	9,894.92	-4,024.84	-415.45	4,024.21	1,599,554.25992	2,258,310.10782	39.45	-108.13



WPX
Standard Plan - Geographic with VS

Company:	PICEANCE VLY NAD 83	Local Co-ordinate Reference:	Well GM 705-34-8-HN2 - Slot B14
Project:	GV 05-07S-096W	TVD Reference:	KELLY BUSHING @ 6010.00usft
Site:	MV 34-5 Pad	MD Reference:	KELLY BUSHING @ 6010.00usft
Well:	GM 705-34-8-HN2	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan#3 17Jul14 kjs	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 (°)	
15,863.27	95.30	179.91	9,889.08	-4,087.84	-415.35	4,087.21	1,599,491.29000	2,258,308.39000	39.45	-108.13	
IP #5 GM 705-34-8-HN2											
15,863.27	95.30	179.91	9,889.08	-4,087.85	-415.35	4,087.22	1,599,491.28246	2,258,308.38979	39.45	-108.13	
Begin 2°/100 Drop											
15,950.47	93.56	179.91	9,882.35	-4,174.78	-415.20	4,174.15	1,599,404.38641	2,258,306.01927	39.45	-108.13	
Hold 93.56° Inc											
16,000.00	93.56	179.91	9,879.28	-4,224.21	-415.12	4,223.58	1,599,354.97233	2,258,304.67125	39.45	-108.13	
16,200.00	93.56	179.91	9,866.87	-4,423.83	-414.80	4,423.20	1,599,155.44041	2,258,299.22800	39.45	-108.13	
16,400.00	93.56	179.91	9,854.47	-4,623.44	-414.47	4,622.81	1,598,955.90849	2,258,293.78475	39.45	-108.13	
16,600.00	93.56	179.91	9,842.07	-4,823.06	-414.15	4,822.43	1,598,756.37658	2,258,288.34149	39.45	-108.13	
16,800.00	93.56	179.91	9,829.66	-5,022.67	-413.83	5,022.04	1,598,556.84466	2,258,282.89824	39.45	-108.13	
16,865.34	93.56	179.91	9,825.61	-5,087.88	-413.72	5,087.26	1,598,491.66000	2,258,281.12000	39.45	-108.13	
Begin 2°/100 Build - IP #6 GM 705-34-8-HN2											
16,879.82	93.85	179.91	9,824.68	-5,102.34	-413.70	5,101.71	1,598,477.21380	2,258,280.72590	39.45	-108.13	
Hold 93.85° Inc											
17,000.00	93.85	179.91	9,816.62	-5,222.25	-413.50	5,221.62	1,598,357.35427	2,258,277.45605	39.45	-108.13	
17,200.00	93.85	179.91	9,803.20	-5,421.80	-413.18	5,421.17	1,598,157.88759	2,258,272.01447	39.45	-108.13	
17,400.00	93.85	179.91	9,789.79	-5,621.35	-412.85	5,620.72	1,597,958.42091	2,258,266.57288	39.45	-108.13	
17,543.18	93.85	179.91	9,780.19	-5,764.20	-412.62	5,763.58	1,597,815.62059	2,258,262.67720	39.45	-108.13	
EOC GM 705-34-8-HN2											
17,600.00	93.85	179.91	9,776.38	-5,820.89	-412.53	5,820.27	1,597,758.95423	2,258,261.13130	39.45	-108.13	
17,600.42	93.85	179.91	9,776.35	-5,821.31	-412.53	5,820.68	1,597,758.54000	2,258,261.12000	39.45	-108.13	
TD at 17600.42 - TD / PBHL GM 705-34-8-HN2											



WPX

Standard Plan - Geographic with VS

Company:	PICEANCE VLY NAD 83	Local Co-ordinate Reference:	Well GM 705-34-8-HN2 - Slot B14
Project:	GV 05-07S-096W	TVD Reference:	KELLY BUSHING @ 6010.00usft
Site:	MV 34-5 Pad	MD Reference:	KELLY BUSHING @ 6010.00usft
Well:	GM 705-34-8-HN2	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan#3 17Jul14 kjs	Database:	COMPASS-PICEANCE

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,713.71	2,675.00	13 3/8"	13.375	17.500	
9,451.80	9,294.84	9 5/8"	9.625	13.500	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
150.00	150.00	0.03	-0.06	Start Build 2.00	
687.51	684.36	49.00	-11.46	Hold 10.75° Inc, 346.9° Az	
9,551.79	9,393.07	1,659.37	-386.27	KOP 8°/100	
10,850.37	10,237.29	912.38	-423.47	Landing Pt 93.42° Inc, 179.91° Az	
11,852.20	10,177.55	-87.67	-421.84	Begin 2°/100 Drop	
11,858.44	10,177.18	-93.90	-421.83	Hold 93.29° Inc	
12,853.90	10,119.99	-1,087.71	-420.21	Begin 2°/100 Drop	
12,858.17	10,119.75	-1,091.97	-420.21	Hold 93.21° Inc	
13,855.51	10,063.93	-2,087.75	-418.59	Begin 2°/100 Build	
13,933.06	10,058.54	-2,165.11	-418.46	Hold 94.76° Inc	
14,858.94	9,981.72	-3,087.80	-416.97	Begin 2°/100 Build	
14,885.96	9,979.35	-3,114.72	-416.93	Hold 95.3° Inc	
15,863.27	9,889.08	-4,087.85	-415.35	Begin 2°/100 Drop	
15,950.47	9,882.35	-4,174.78	-415.20	Hold 93.56° Inc	
16,865.34	9,825.61	-5,087.89	-413.72	Begin 2°/100 Build	
16,879.82	9,824.68	-5,102.34	-413.70	Hold 93.85° Inc	
17,600.42	9,776.35	-5,821.31	-412.53	TD at 17600.42	

Checked By: _____	Approved By: _____	Date: _____
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