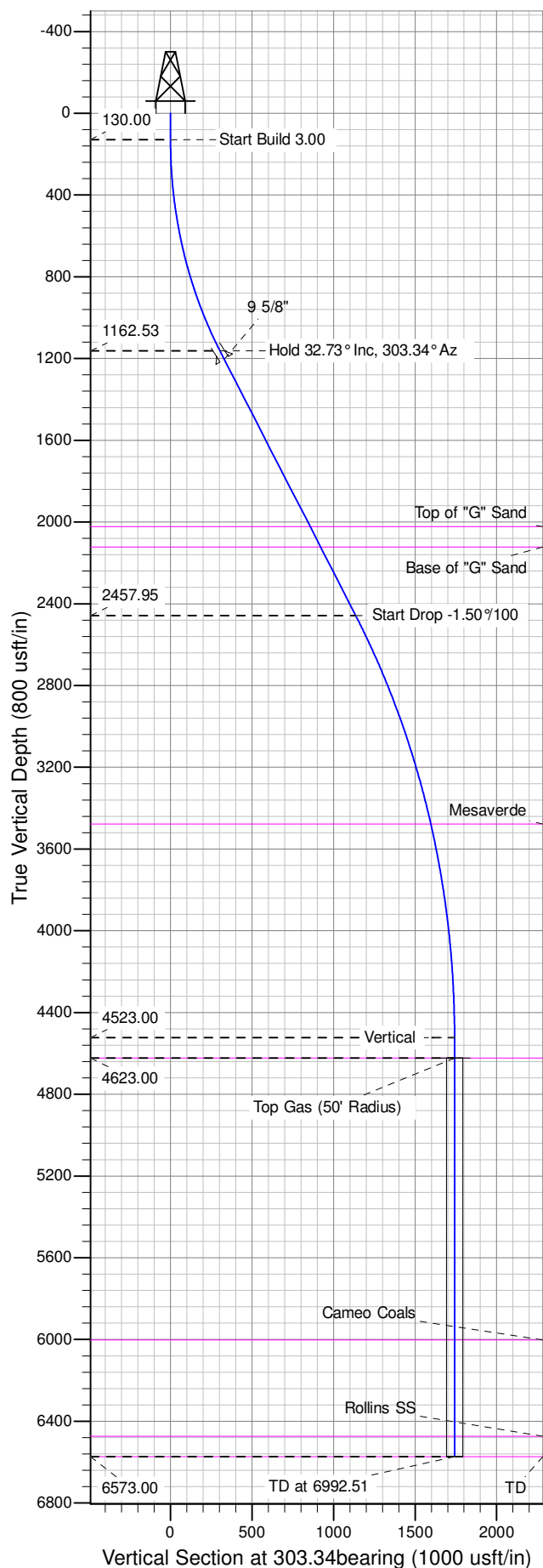
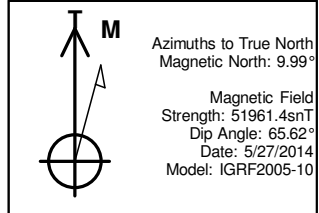
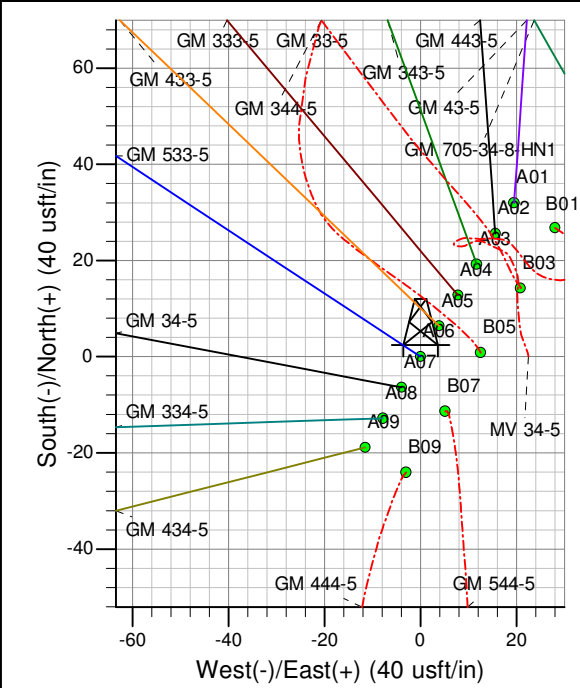
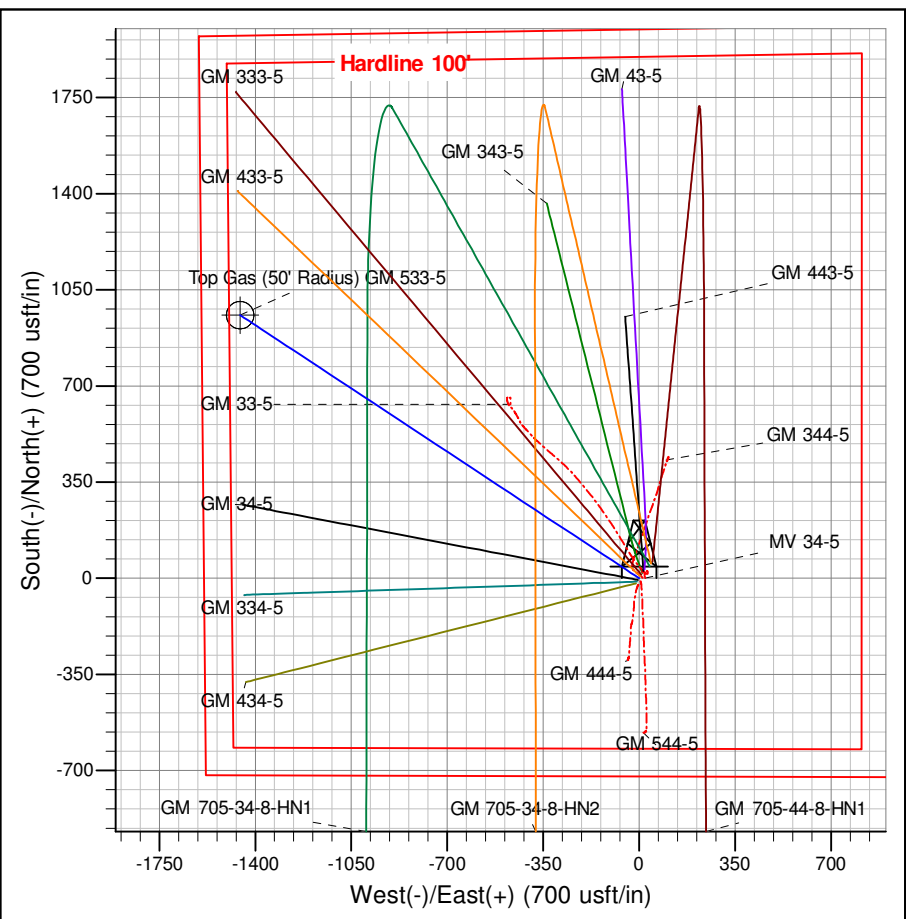




Well Name: GM 533-5
Surface Location: MV 34-5 Pad
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 5977.00
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.00 0.00 1603514.14000 2258796.44000 39.46101 -108.12557 A06
KELLY BUSHING @ 6003.00usft (Nabors 577 (26' RKB) mab)



ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation	
130.00	130.00	0.00	0.00	0.00	0.00	0.00	0.00	Start Build 3.00	
1162.53	1220.88	32.73	303.34	166.62	-253.27	303.17	303.17	Hold 32.73° Inc, 303.34° Az	
2457.95	2760.74	32.73	303.34	624.17	-948.76	1135.66	1135.66	Start Drop -1.50°/100	
4523.00	4942.51	0.00	0.00	957.41	-1455.31	1742.00	1742.00	Vertical	
4623.00	5042.51	0.00	0.00	957.41	-1455.31	1742.00	1742.00	Top Gas	
6573.00	6992.51	0.00	0.00	957.41	-1455.31	1742.00	1742.00	TD at 6992.51	



Azimuths to True North
Magnetic North: 9.99°
Magnetic Field
Strength: 51961.4snT
Dip Angle: 65.62°
Date: 5/27/2014
Model: IGRF2005-10
Project: GV 05-07S-096W
Site: MV 34-5 Pad
Well: GM 533-5
Design #2 24Jul14 mab

PICEANCE VLY NAD 83

GV 05-07S-096W

MV 34-5 Pad

GM 533-5 - Slot A06

Wellbore #1

Plan: Design #2 24Jul14 mab

Standard Planning Report - Geographic

30 September, 2014

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 533-5 - Slot A06
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 6003.00usft (Nabors 577 (26' RKB) mab)
Project:	GV 05-07S-096W	MD Reference:	KELLY BUSHING @ 6003.00usft (Nabors 577 (26' RKB) mab)
Site:	MV 34-5 Pad	North Reference:	True
Well:	GM 533-5	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2 24Jul14 mab		

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	Latitude: 39.461085
From: Map		Easting:	2,258,825.25200 usft	Longitude: -108.125476
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence: -1.66 °

Well	GM 533-5 - Slot A06			
Well Position	+N/-S	0.00 usft	Northing:	1,603,514.14000 usft
	+E/-W	0.00 usft	Easting:	2,258,796.44000 usft
Position Uncertainty	0.00 usft		Wellhead Elevation:	0.00 usft
			Ground Level:	5,977.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2005-10	5/27/2014	9.99	65.62	51,961

Design	Design #2 24Jul14 mab			
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	0.00	0.00	303.34

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	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	0.00	
130.00	0.00	0.00	130.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,220.88	32.73	303.34	1,162.53	166.62	-253.27	3.00	3.00	0.00	303.34	
2,760.74	32.73	303.34	2,457.95	624.17	-948.76	0.00	0.00	0.00	0.00	
4,942.51	0.00	0.00	4,523.00	957.41	-1,455.31	1.50	-1.50	0.00	180.00	
5,042.51	0.00	0.00	4,623.00	957.41	-1,455.31	0.00	0.00	0.00	0.00	Top Gas (50' Radius)
6,992.51	0.00	0.00	6,573.00	957.41	-1,455.31	0.00	0.00	0.00	0.00	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 533-5 - Slot A06
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 6003.00usft (Nabors 577 (26' RKB) mab)
Project:	GV 05-07S-096W	MD Reference:	KELLY BUSHING @ 6003.00usft (Nabors 577 (26' RKB) mab)
Site:	MV 34-5 Pad	North Reference:	True
Well:	GM 533-5	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2 24Jul14 mab		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	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	1,603,514.14000	2,258,796.44000	39.461011	-108.125575	
130.00	0.00	0.00	130.00	0.00	0.00	1,603,514.14000	2,258,796.44000	39.461011	-108.125575	
Start Build 3.00										
200.00	2.10	303.34	199.98	0.70	-1.07	1,603,514.87560	2,258,795.38929	39.461013	-108.125579	
400.00	8.10	303.34	399.10	10.47	-15.92	1,603,525.06700	2,258,780.83228	39.461040	-108.125631	
600.00	14.10	303.34	595.27	31.62	-48.07	1,603,547.13892	2,258,749.30558	39.461098	-108.125745	
800.00	20.10	303.34	786.34	63.93	-97.18	1,603,580.84954	2,258,701.15460	39.461187	-108.125919	
1,000.00	26.10	303.34	970.22	107.04	-162.70	1,603,625.82952	2,258,636.90690	39.461305	-108.126151	
1,200.00	32.10	303.34	1,144.90	160.47	-243.92	1,603,681.58605	2,258,557.26638	39.461452	-108.126439	
1,220.88	32.73	303.34	1,162.53	166.62	-253.27	1,603,688.00530	2,258,548.09736	39.461469	-108.126472	
Hold 32.73° Inc, 303.34° Az										
1,270.88	32.73	303.34	1,204.59	181.48	-275.86	1,603,703.50697	2,258,525.95535	39.461509	-108.126552	
9 5/8"										
1,400.00	32.73	303.34	1,313.21	219.85	-334.17	1,603,743.54025	2,258,468.77334	39.461615	-108.126759	
1,600.00	32.73	303.34	1,481.46	279.27	-424.50	1,603,805.54965	2,258,380.20143	39.461778	-108.127078	
1,800.00	32.73	303.34	1,649.71	338.70	-514.84	1,603,867.55906	2,258,291.62953	39.461941	-108.127398	
2,000.00	32.73	303.34	1,817.97	398.13	-605.17	1,603,929.56848	2,258,203.05762	39.462104	-108.127718	
2,200.00	32.73	303.34	1,986.22	457.55	-695.50	1,603,991.57789	2,258,114.48572	39.462267	-108.128038	
2,243.72	32.73	303.34	2,023.00	470.54	-715.24	1,604,005.13352	2,258,095.12337	39.462303	-108.128108	
Top of "G" Sand										
2,362.59	32.73	303.34	2,123.00	505.86	-768.93	1,604,041.98855	2,258,042.48103	39.462400	-108.128298	
Base of "G" Sand										
2,400.00	32.73	303.34	2,154.47	516.98	-785.83	1,604,053.58730	2,258,025.91382	39.462430	-108.128358	
2,600.00	32.73	303.34	2,322.72	576.41	-876.16	1,604,115.59671	2,257,937.34191	39.462593	-108.128678	
2,760.74	32.73	303.34	2,457.95	624.17	-948.76	1,604,165.43429	2,257,866.15579	39.462725	-108.128935	
Start Drop -1.50°/100										
2,800.00	32.14	303.34	2,491.08	635.74	-966.35	1,604,177.50858	2,257,848.90933	39.462756	-108.128998	
3,000.00	29.14	303.34	2,663.15	691.75	-1,051.49	1,604,235.95302	2,257,765.42948	39.462910	-108.129299	
3,200.00	26.14	303.34	2,840.31	742.73	-1,128.98	1,604,289.15306	2,257,689.44056	39.463050	-108.129574	
3,400.00	23.14	303.34	3,022.08	788.55	-1,198.63	1,604,336.96286	2,257,621.15085	39.463176	-108.129820	
3,600.00	20.14	303.34	3,207.96	829.08	-1,260.23	1,604,379.25138	2,257,560.74751	39.463287	-108.130038	
3,800.00	17.14	303.34	3,397.45	864.20	-1,313.62	1,604,415.90272	2,257,508.39612	39.463384	-108.130228	
3,884.01	15.88	303.34	3,478.00	877.32	-1,333.56	1,604,429.59227	2,257,488.84248	39.463420	-108.130298	
Mesaverde										
4,000.00	14.14	303.34	3,590.03	893.83	-1,358.66	1,604,446.81641	2,257,464.24018	39.463465	-108.130387	
4,200.00	11.14	303.34	3,785.16	917.88	-1,395.21	1,604,471.90772	2,257,428.40069	39.463531	-108.130517	
4,400.00	8.14	303.34	3,982.32	936.28	-1,423.18	1,604,491.10788	2,257,400.97591	39.463581	-108.130616	
4,600.00	5.14	303.34	4,180.95	948.98	-1,442.49	1,604,504.36426	2,257,382.04100	39.463616	-108.130684	
4,800.00	2.14	303.34	4,380.53	955.95	-1,453.09	1,604,511.64052	2,257,371.64785	39.463635	-108.130722	
4,942.51	0.00	0.00	4,523.00	957.41	-1,455.31	1,604,513.16487	2,257,369.47053	39.463639	-108.130729	
Vertical										
5,000.00	0.00	0.00	4,580.49	957.41	-1,455.31	1,604,513.16487	2,257,369.47053	39.463639	-108.130729	
5,042.51	0.00	0.00	4,623.00	957.41	-1,455.31	1,604,513.16487	2,257,369.47053	39.463639	-108.130729	
Top Gas - Approx. Top Gas										
5,200.00	0.00	0.00	4,780.49	957.41	-1,455.31	1,604,513.16487	2,257,369.47053	39.463639	-108.130729	
5,400.00	0.00	0.00	4,980.49	957.41	-1,455.31	1,604,513.16487	2,257,369.47053	39.463639	-108.130729	
5,600.00	0.00	0.00	5,180.49	957.41	-1,455.31	1,604,513.16487	2,257,369.47053	39.463639	-108.130729	
5,800.00	0.00	0.00	5,380.49	957.41	-1,455.31	1,604,513.16487	2,257,369.47053	39.463639	-108.130729	
6,000.00	0.00	0.00	5,580.49	957.41	-1,455.31	1,604,513.16487	2,257,369.47053	39.463639	-108.130729	
6,200.00	0.00	0.00	5,780.49	957.41	-1,455.31	1,604,513.16487	2,257,369.47053	39.463639	-108.130729	
6,400.00	0.00	0.00	5,980.49	957.41	-1,455.31	1,604,513.16487	2,257,369.47053	39.463639	-108.130729	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 533-5 - Slot A06
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 6003.00usft (Nabors 577 (26' RKB) mab)
Project:	GV 05-07S-096W	MD Reference:	KELLY BUSHING @ 6003.00usft (Nabors 577 (26' RKB) mab)
Site:	MV 34-5 Pad	North Reference:	True
Well:	GM 533-5	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2 24Jul14 mab		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,422.51	0.00	0.00	6,003.00	957.41	-1,455.31	1,604,513.16487	2,257,369.47053	39.463639	-108.130729
Cameo Coals									
6,600.00	0.00	0.00	6,180.49	957.41	-1,455.31	1,604,513.16487	2,257,369.47053	39.463639	-108.130729
6,800.00	0.00	0.00	6,380.49	957.41	-1,455.31	1,604,513.16487	2,257,369.47053	39.463639	-108.130729
6,892.51	0.00	0.00	6,473.00	957.41	-1,455.31	1,604,513.16487	2,257,369.47053	39.463639	-108.130729
Rollins SS									
6,992.51	0.00	0.00	6,573.00	957.41	-1,455.31	1,604,513.16487	2,257,369.47053	39.463639	-108.130729
TD at 6992.51 - TD									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (bearing)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Top Gas (50' Radius) G1	0.00	0.00	4,623.00	957.41	-1,455.31	1,604,513.16487	2,257,369.47053	39.463639	-108.130729
- plan hits target center									
- Circle (radius 50.00)									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,270.88	1,204.59	9 5/8"	9.625	13.500	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (bearing)	
2,243.72	2,023.00	Top of "G" Sand				
2,362.59	2,123.00	Base of "G" Sand				
3,884.01	3,478.00	Mesaverde				
5,042.51	4,623.00	Approx. Top Gas				
6,422.51	6,003.00	Cameo Coals				
6,892.51	6,473.00	Rollins SS				
6,992.51	6,573.00	TD				

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
130.00	130.00	0.00	0.00	Start Build 3.00
1,220.88	1,162.53	166.62	-253.27	Hold 32.73° Inc, 303.34° Az
2,760.74	2,457.95	624.17	-948.76	Start Drop -1.50°/100
4,942.51	4,523.00	957.41	-1,455.31	Vertical
5,042.51	4,623.00	957.41	-1,455.31	Top Gas
6,992.51	6,573.00	957.41	-1,455.31	TD at 6992.51