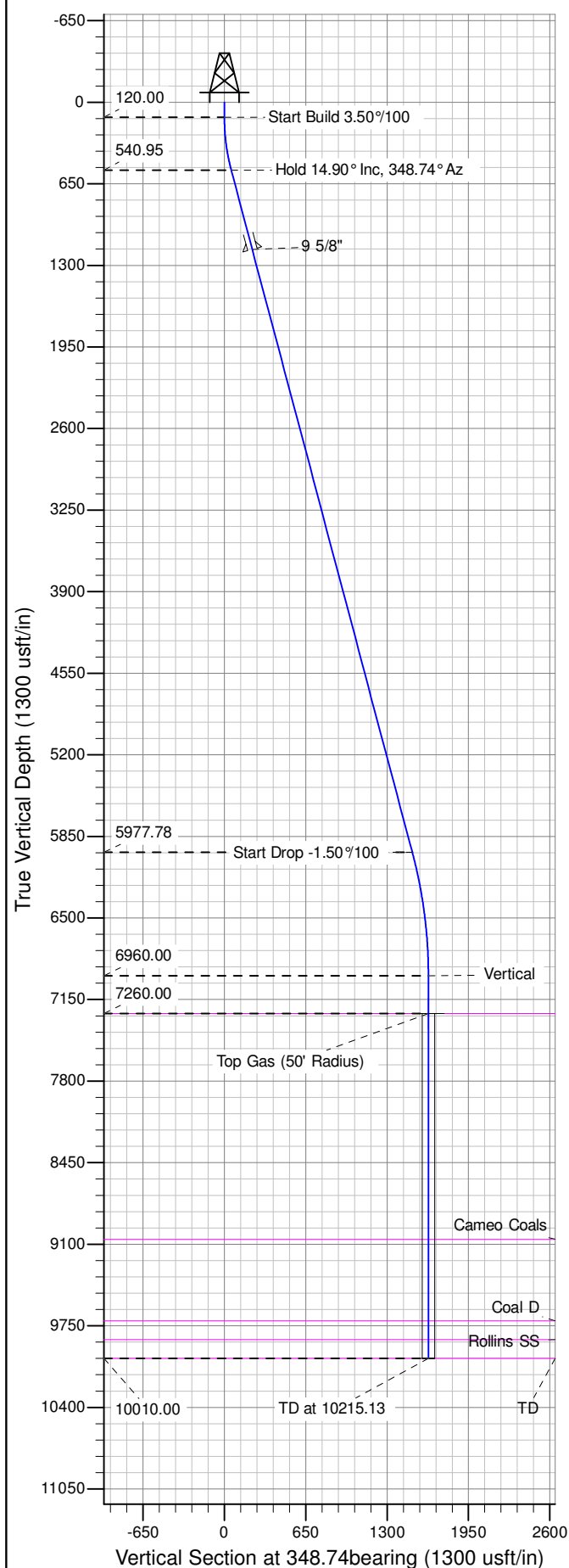
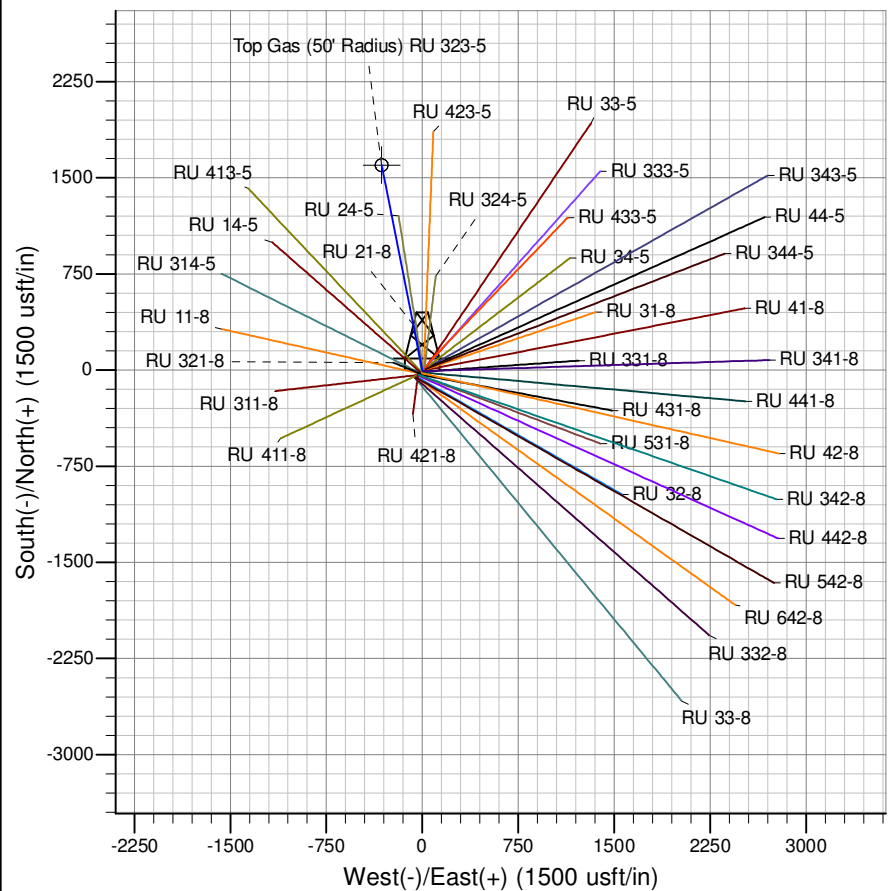




Well Name: RU 323-5
Surface Location: RU 21-8 Pad
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 7736.00
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.00 0.00 1602686.72 2350514.55 39.46557 -107.80076 B12
KELLY BUSHING @ 7762.00usft (Nabors 576 (26' RKB) mab)



ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation	
120.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Start Build 3.50%/100
540.95	545.73	14.90	348.74	53.99	-10.75	55.05	55.05	55.05	Hold 14.90° Inc, 348.74° Az
5977.78	6171.75	14.90	348.74	1472.83	-293.26	1501.75	1501.75	1501.75	Start Drop -1.50%/100
6960.00	7165.13	0.00	0.00	1598.81	-318.34	1630.19	1630.19	1630.19	Vertical
7260.00	7465.13	0.00	0.00	1598.81	-318.34	1630.19	1630.19	1630.19	Top Gas
10010.00	10215.13	0.00	0.00	1598.81	-318.34	1630.19	1630.19	1630.19	TD at 10215.13



PICEANCE VLY NAD 83

RU 08-07S-093W

RU 21-8 Pad

RU 323-5 - Slot B12

Wellbore #1

Plan: Design #1 09Sep14 mab

Standard Planning Report - Geographic

04 November, 2014

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 323-5 - Slot B12
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 7762.00usft (Nabors 576 (26' RKB) mab)
Project:	RU 08-07S-093W	MD Reference:	KELLY BUSHING @ 7762.00usft (Nabors 576 (26' RKB) mab)
Site:	RU 21-8 Pad	North Reference:	True
Well:	RU 323-5	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 09Sep14 mab		

Project	RU 08-07S-093W		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site	RU 21-8 Pad			
Site Position:		Northing:	1,602,707.70000 usft	Latitude: 39.46563
From: Map		Easting:	2,350,555.60000 usft	Longitude: -107.80061
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence: -1.45 °

Well	RU 323-5 - Slot B12			
Well Position	+N/-S	0.00 usft	Northing:	1,602,686.72111 usft
	+E/-W	0.00 usft	Easting:	2,350,514.55263 usft
Position Uncertainty	0.00 usft		Wellhead Elevation:	0.00 usft
			Ground Level:	7,736.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	9/9/2014	9.84	65.66	51,918

Design	Design #1 09Sep14 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	348.74

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	
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00	
545.73	14.90	348.74	540.95	53.99	-10.75	3.50	3.50	0.00	348.74	
6,171.75	14.90	348.74	5,977.78	1,472.83	-293.26	0.00	0.00	0.00	0.00	
7,165.13	0.00	0.00	6,960.00	1,598.81	-318.34	1.50	-1.50	0.00	180.00	
7,465.13	0.00	0.00	7,260.00	1,598.81	-318.34	0.00	0.00	0.00	0.00	Top Gas (50' Radius)
10,215.13	0.00	0.00	10,010.00	1,598.81	-318.34	0.00	0.00	0.00	0.00	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 323-5 - Slot B12
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 7762.00usft (Nabors 576 (26' RKB) mab)
Project:	RU 08-07S-093W	MD Reference:	KELLY BUSHING @ 7762.00usft (Nabors 576 (26' RKB) mab)
Site:	RU 21-8 Pad	North Reference:	True
Well:	RU 323-5	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 09Sep14 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	1,602,686.72111	2,350,514.55263	39.46557	-107.80076
120.00	0.00	0.00	120.00	0.00	0.00	1,602,686.72111	2,350,514.55263	39.46557	-107.80076
Start Build 3.50°/100									
200.00	2.80	348.74	199.97	1.92	-0.38	1,602,688.64692	2,350,514.21965	39.46557	-107.80076
400.00	9.80	348.74	398.64	23.43	-4.66	1,602,710.25944	2,350,510.48270	39.46563	-107.80077
545.73	14.90	348.74	540.95	53.99	-10.75	1,602,740.96433	2,350,505.17362	39.46572	-107.80080
Hold 14.90° Inc, 348.74° Az									
600.00	14.90	348.74	593.39	67.67	-13.47	1,602,754.71458	2,350,502.79611	39.46575	-107.80081
800.00	14.90	348.74	786.67	118.11	-23.52	1,602,805.39147	2,350,494.03374	39.46589	-107.80084
1,000.00	14.90	348.74	979.94	168.55	-33.56	1,602,856.06836	2,350,485.27137	39.46603	-107.80088
1,200.00	14.90	348.74	1,173.22	218.99	-43.60	1,602,906.74525	2,350,476.50900	39.46617	-107.80091
9 5/8"									
1,400.00	14.90	348.74	1,366.49	269.43	-53.65	1,602,957.42214	2,350,467.74663	39.46631	-107.80095
1,600.00	14.90	348.74	1,559.77	319.87	-63.69	1,603,008.09902	2,350,458.98426	39.46645	-107.80098
1,800.00	14.90	348.74	1,753.04	370.31	-73.73	1,603,058.77591	2,350,450.22189	39.46658	-107.80102
2,000.00	14.90	348.74	1,946.31	420.75	-83.77	1,603,109.45280	2,350,441.45952	39.46672	-107.80105
2,200.00	14.90	348.74	2,139.59	471.18	-93.82	1,603,160.12969	2,350,432.69715	39.46686	-107.80109
2,400.00	14.90	348.74	2,332.86	521.62	-103.86	1,603,210.80658	2,350,423.93478	39.46700	-107.80113
2,600.00	14.90	348.74	2,526.14	572.06	-113.90	1,603,261.48348	2,350,415.17241	39.46714	-107.80116
2,800.00	14.90	348.74	2,719.41	622.50	-123.95	1,603,312.16037	2,350,406.41004	39.46728	-107.80120
3,000.00	14.90	348.74	2,912.69	672.94	-133.99	1,603,362.83726	2,350,397.64767	39.46742	-107.80123
3,200.00	14.90	348.74	3,105.96	723.38	-144.03	1,603,413.51414	2,350,388.88530	39.46755	-107.80127
3,400.00	14.90	348.74	3,299.24	773.82	-154.07	1,603,464.19103	2,350,380.12293	39.46769	-107.80130
3,600.00	14.90	348.74	3,492.51	824.26	-164.12	1,603,514.86792	2,350,371.36056	39.46783	-107.80134
3,800.00	14.90	348.74	3,685.79	874.69	-174.16	1,603,565.54481	2,350,362.59819	39.46797	-107.80137
4,000.00	14.90	348.74	3,879.06	925.13	-184.20	1,603,616.22170	2,350,353.83583	39.46811	-107.80141
4,200.00	14.90	348.74	4,072.34	975.57	-194.25	1,603,666.89859	2,350,345.07346	39.46825	-107.80145
4,400.00	14.90	348.74	4,265.61	1,026.01	-204.29	1,603,717.57548	2,350,336.31109	39.46838	-107.80148
4,600.00	14.90	348.74	4,458.88	1,076.45	-214.33	1,603,768.25237	2,350,327.54872	39.46852	-107.80152
4,800.00	14.90	348.74	4,652.16	1,126.89	-224.37	1,603,818.92925	2,350,318.78635	39.46866	-107.80155
5,000.00	14.90	348.74	4,845.43	1,177.33	-234.42	1,603,869.60614	2,350,310.02398	39.46880	-107.80159
5,200.00	14.90	348.74	5,038.71	1,227.77	-244.46	1,603,920.28303	2,350,301.26161	39.46894	-107.80162
5,400.00	14.90	348.74	5,231.98	1,278.20	-254.50	1,603,970.95992	2,350,292.49924	39.46908	-107.80166
5,600.00	14.90	348.74	5,425.26	1,328.64	-264.55	1,604,021.63682	2,350,283.73687	39.46922	-107.80169
5,800.00	14.90	348.74	5,618.53	1,379.08	-274.59	1,604,072.31371	2,350,274.97450	39.46935	-107.80173
6,000.00	14.90	348.74	5,811.81	1,429.52	-284.63	1,604,122.99060	2,350,266.21213	39.46949	-107.80177
6,171.75	14.90	348.74	5,977.78	1,472.83	-293.26	1,604,166.50940	2,350,258.68744	39.46961	-107.80180
Start Drop -1.50°/100									
6,200.00	14.48	348.74	6,005.11	1,479.86	-294.65	1,604,173.56795	2,350,257.46697	39.46963	-107.80180
6,400.00	11.48	348.74	6,199.98	1,523.90	-303.42	1,604,217.81795	2,350,249.81585	39.46975	-107.80183
6,600.00	8.48	348.74	6,396.93	1,557.88	-310.19	1,604,251.95775	2,350,243.91286	39.46984	-107.80186
6,800.00	5.48	348.74	6,595.43	1,581.70	-314.93	1,604,275.89374	2,350,239.77416	39.46991	-107.80187
7,000.00	2.48	348.74	6,794.92	1,595.31	-317.64	1,604,289.56033	2,350,237.41112	39.46995	-107.80188
7,165.13	0.00	0.00	6,960.00	1,598.81	-318.34	1,604,293.07689	2,350,236.80308	39.46996	-107.80189
Vertical									
7,200.00	0.00	0.00	6,994.87	1,598.81	-318.34	1,604,293.07689	2,350,236.80308	39.46996	-107.80189
7,400.00	0.00	0.00	7,194.87	1,598.81	-318.34	1,604,293.07689	2,350,236.80308	39.46996	-107.80189
7,465.13	0.00	0.00	7,260.00	1,598.81	-318.34	1,604,293.07689	2,350,236.80308	39.46996	-107.80189
Top Gas - Approx. Top Gas									
7,600.00	0.00	0.00	7,394.87	1,598.81	-318.34	1,604,293.07689	2,350,236.80308	39.46996	-107.80189
7,800.00	0.00	0.00	7,594.87	1,598.81	-318.34	1,604,293.07689	2,350,236.80308	39.46996	-107.80189
8,000.00	0.00	0.00	7,794.87	1,598.81	-318.34	1,604,293.07689	2,350,236.80308	39.46996	-107.80189

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 323-5 - Slot B12
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 7762.00usft (Nabors 576 (26' RKB) mab)
Project:	RU 08-07S-093W	MD Reference:	KELLY BUSHING @ 7762.00usft (Nabors 576 (26' RKB) mab)
Site:	RU 21-8 Pad	North Reference:	True
Well:	RU 323-5	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 09Sep14 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
8,200.00	0.00	0.00	7,994.87	1,598.81	-318.34	1,604,293.07689	2,350,236.80308	39.46996	-107.80189
8,400.00	0.00	0.00	8,194.87	1,598.81	-318.34	1,604,293.07689	2,350,236.80308	39.46996	-107.80189
8,600.00	0.00	0.00	8,394.87	1,598.81	-318.34	1,604,293.07689	2,350,236.80308	39.46996	-107.80189
8,800.00	0.00	0.00	8,594.87	1,598.81	-318.34	1,604,293.07689	2,350,236.80308	39.46996	-107.80189
9,000.00	0.00	0.00	8,794.87	1,598.81	-318.34	1,604,293.07689	2,350,236.80308	39.46996	-107.80189
9,200.00	0.00	0.00	8,994.87	1,598.81	-318.34	1,604,293.07689	2,350,236.80308	39.46996	-107.80189
9,266.13	0.00	0.00	9,061.00	1,598.81	-318.34	1,604,293.07689	2,350,236.80308	39.46996	-107.80189
Cameo Coals									
9,400.00	0.00	0.00	9,194.87	1,598.81	-318.34	1,604,293.07689	2,350,236.80308	39.46996	-107.80189
9,600.00	0.00	0.00	9,394.87	1,598.81	-318.34	1,604,293.07689	2,350,236.80308	39.46996	-107.80189
9,800.00	0.00	0.00	9,594.87	1,598.81	-318.34	1,604,293.07689	2,350,236.80308	39.46996	-107.80189
9,916.13	0.00	0.00	9,711.00	1,598.81	-318.34	1,604,293.07689	2,350,236.80308	39.46996	-107.80189
Coal D									
10,000.00	0.00	0.00	9,794.87	1,598.81	-318.34	1,604,293.07689	2,350,236.80308	39.46996	-107.80189
10,065.13	0.00	0.00	9,860.00	1,598.81	-318.34	1,604,293.07689	2,350,236.80308	39.46996	-107.80189
Rollins SS									
10,200.00	0.00	0.00	9,994.87	1,598.81	-318.34	1,604,293.07689	2,350,236.80308	39.46996	-107.80189
10,215.13	0.00	0.00	10,010.00	1,598.81	-318.34	1,604,293.07689	2,350,236.80308	39.46996	-107.80189
TD at 10215.13 - 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) RL - plan hits target center - Circle (radius 50.00)	0.00	358.55	7,260.00	1,598.81	-318.34	1,604,293.07690	2,350,236.80308	39.46996	-107.80189

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,200.00	1,173.22	9 5/8"	9.625	13.500	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (bearing)	
7,465.13	7,260.00	Approx. Top Gas				
9,266.13	9,061.00	Cameo Coals				
9,916.13	9,711.00	Coal D				
10,065.13	9,860.00	Rollins SS				
10,215.13	10,010.00	TD				

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 323-5 - Slot B12
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 7762.00usft (Nabors 576 (26' RKB) mab)
Project:	RU 08-07S-093W	MD Reference:	KELLY BUSHING @ 7762.00usft (Nabors 576 (26' RKB) mab)
Site:	RU 21-8 Pad	North Reference:	True
Well:	RU 323-5	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 09Sep14 mab		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
120.00	120.00	0.00	0.00	Start Build 3.50°/100
545.73	540.95	53.99	-10.75	Hold 14.90° Inc, 348.74° Az
6,171.75	5,977.78	1,472.83	-293.26	Start Drop -1.50°/100
7,165.13	6,960.00	1,598.81	-318.34	Vertical
7,465.13	7,260.00	1,598.81	-318.34	Top Gas
10,215.13	10,010.00	1,598.81	-318.34	TD at 10215.13