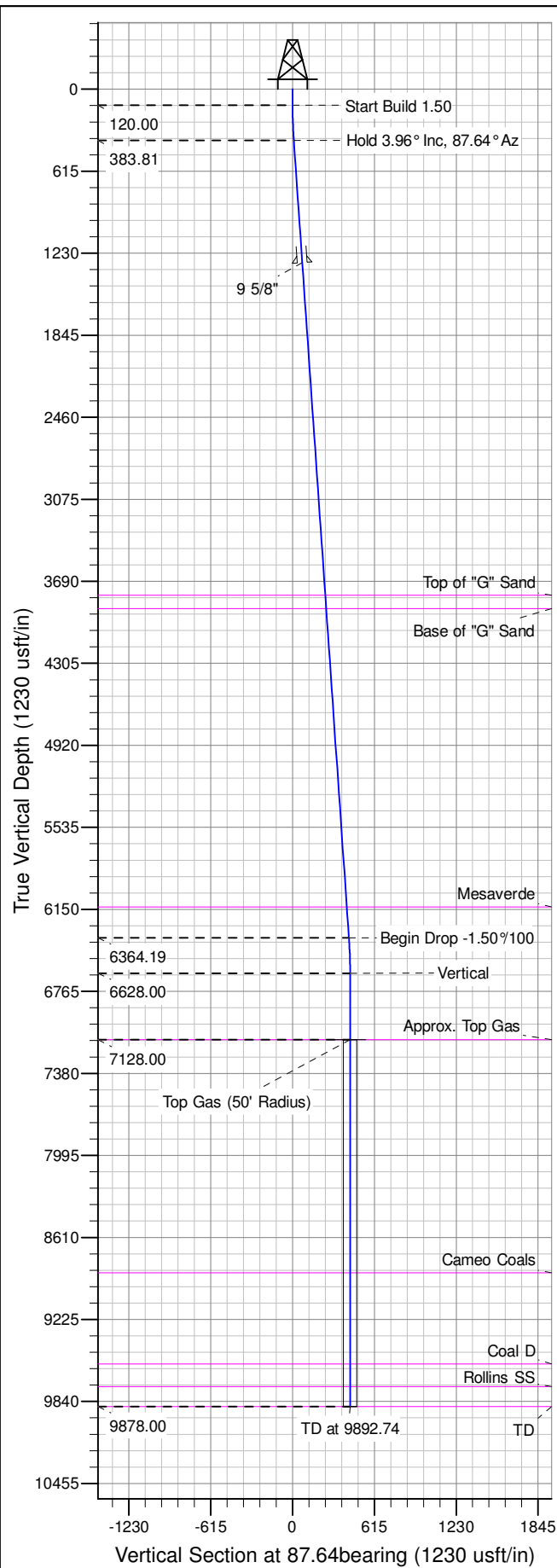
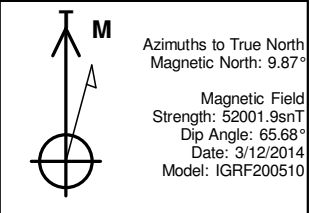
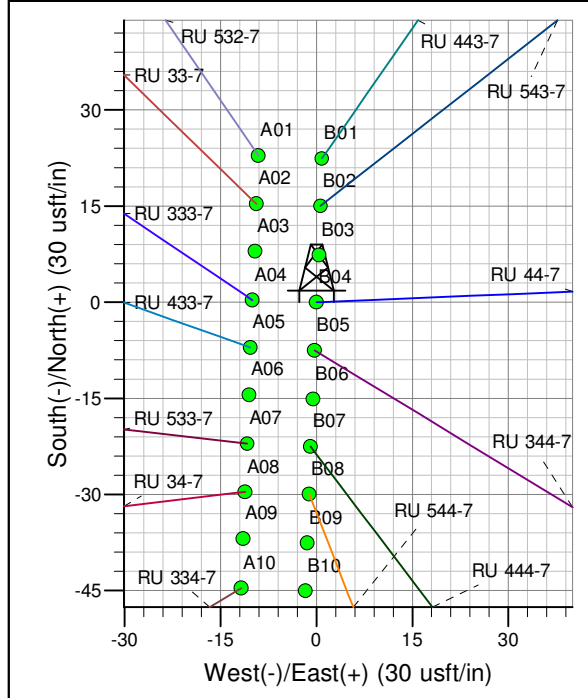
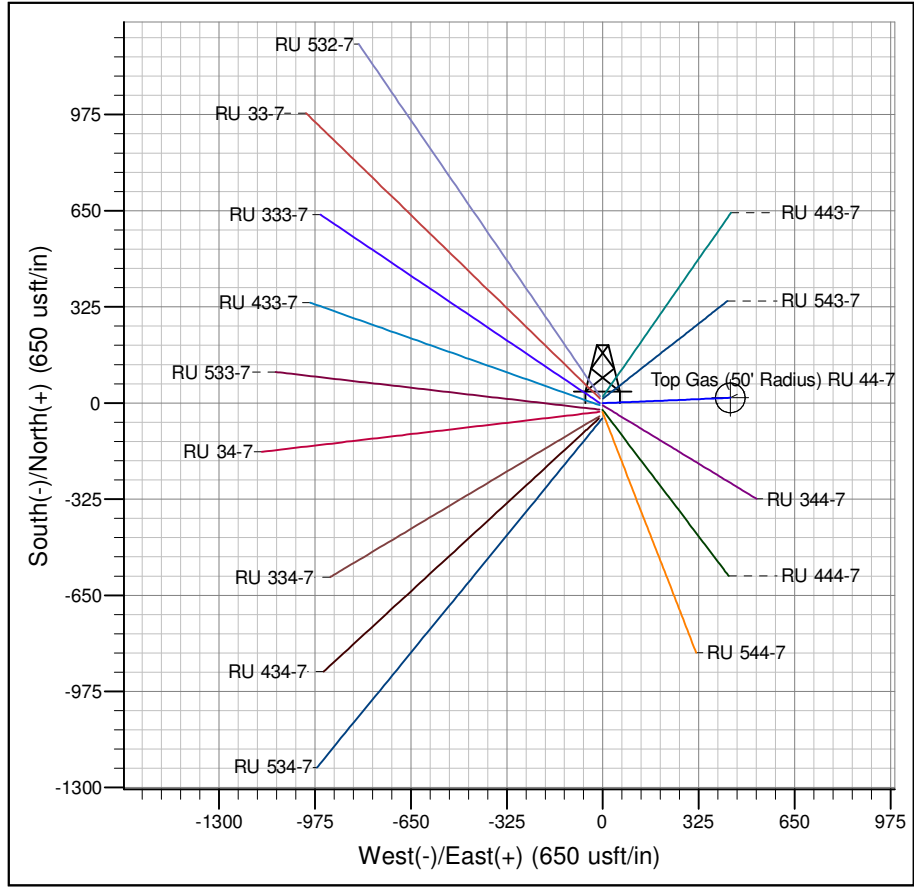




Well Name: RU 44-7
Surface Location: RU 44-7 Pad
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 7917.00
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.00 0.00 1598853.10000 2347578.80000 39.45484 -107.81080 B04
KELLY BUSHING @ 7943.00usft (Nabors 576 (26' RKB) kjs)



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	Start Build 1.50	
383.81	384.02	3.96	87.64	0.38	9.11	9.12	9.12	Hold 3.96° Inc, 87.64° Az	
6364.19	6378.71	3.96	87.64	17.42	422.79	423.15	423.15	Begin Drop -1.50°100	
6628.00	6642.74	0.00	0.00	17.79	431.91	432.27	432.27	Vertical	
7128.00	7142.74	0.00	0.00	17.79	431.91	432.27	432.27	Top Gas	
9878.00	9892.74	0.00	0.00	17.79	431.91	432.27	432.27	TD at 9892.74	



Magnetic Field
Strength: 52001.9snT
Dip Angle: 65.68°
Date: 3/12/2014
Model: IGRF200510

Project: RU 07-07S-093W
Site: RU 44-7 Pad
Well: RU 44-7
Design #2 28May14 mab

PICEANCE VLY NAD 83

RU 07-07S-093W

RU 44-7 Pad

RU 44-7 - Slot B04

Wellbore #1

Plan: Design #2 28May14 mab

Standard Planning Report - Geographic

12 June, 2014

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 44-7 - Slot B04
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 7943.00usft (Nabors 576 (26' RKB) kjs)
Project:	RU 07-07S-093W	MD Reference:	KELLY BUSHING @ 7943.00usft (Nabors 576 (26' RKB) kjs)
Site:	RU 44-7 Pad	North Reference:	True
Well:	RU 44-7	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2 28May14 mab		

Project	RU 07-07S-093W, Garfield County, CO		
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	RU 44-7 Pad			
Site Position:		Northing:	1,598,795.70000 usft	Latitude: 39.45468
From: Map		Easting:	2,347,575.10000 usft	Longitude: -107.81082
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence: -1.46 °

Well	RU 44-7 - Slot B04			
Well Position	+N/-S	0.00 usft	Northing:	1,598,853.10000 usft
	+E/-W	0.00 usft	Easting:	2,347,578.80000 usft
Position Uncertainty	0.00 usft		Wellhead Elevation:	0.00 usft
			Ground Level:	7,917.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	3/12/2014	9.87	65.68	52,002

Design	Design #2 28May14 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	87.64

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	
384.02	3.96	87.64	383.81	0.38	9.11	1.50	1.50	0.00	87.64	
6,378.71	3.96	87.64	6,364.19	17.42	422.79	0.00	0.00	0.00	0.00	
6,642.74	0.00	0.00	6,628.00	17.79	431.91	1.50	-1.50	0.00	180.00	
7,142.74	0.00	0.00	7,128.00	17.79	431.91	0.00	0.00	0.00	0.00	Top Gas (50' Radius)
9,892.74	0.00	0.00	9,878.00	17.79	431.91	0.00	0.00	0.00	0.00	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 44-7 - Slot B04
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 7943.00usft (Nabors 576 (26' RKB) kjs)
Project:	RU 07-07S-093W	MD Reference:	KELLY BUSHING @ 7943.00usft (Nabors 576 (26' RKB) kjs)
Site:	RU 44-7 Pad	North Reference:	True
Well:	RU 44-7	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2 28May14 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	1,598,853.10000	2,347,578.80000	39.45484	-107.81081
120.00	0.00	0.00	120.00	0.00	0.00	1,598,853.10000	2,347,578.80000	39.45484	-107.81081
Start Build 1.50									
200.00	1.20	87.64	199.99	0.03	0.84	1,598,853.11318	2,347,579.63759	39.45484	-107.81080
384.02	3.96	87.64	383.81	0.38	9.11	1,598,853.24348	2,347,587.91965	39.45484	-107.81078
Hold 3.96° Inc, 87.64° Az									
400.00	3.96	87.64	399.75	0.42	10.22	1,598,853.26084	2,347,589.02288	39.45484	-107.81077
600.00	3.96	87.64	599.27	0.99	24.02	1,598,853.47814	2,347,602.83380	39.45484	-107.81072
800.00	3.96	87.64	798.80	1.56	37.82	1,598,853.69543	2,347,616.64472	39.45485	-107.81067
1,000.00	3.96	87.64	998.32	2.13	51.62	1,598,853.91272	2,347,630.45564	39.45485	-107.81062
1,200.00	3.96	87.64	1,197.84	2.69	65.42	1,598,854.13002	2,347,644.26655	39.45485	-107.81058
1,302.40	3.96	87.64	1,300.00	2.99	72.49	1,598,854.24127	2,347,651.33797	39.45485	-107.81055
9 5/8"									
1,400.00	3.96	87.64	1,397.36	3.26	79.22	1,598,854.34731	2,347,658.07747	39.45485	-107.81053
1,600.00	3.96	87.64	1,596.89	3.83	93.03	1,598,854.56460	2,347,671.88839	39.45485	-107.81048
1,800.00	3.96	87.64	1,796.41	4.40	106.83	1,598,854.78190	2,347,685.69931	39.45485	-107.81043
2,000.00	3.96	87.64	1,995.93	4.97	120.63	1,598,854.99919	2,347,699.51023	39.45486	-107.81038
2,200.00	3.96	87.64	2,195.45	5.54	134.43	1,598,855.21648	2,347,713.32114	39.45486	-107.81033
2,400.00	3.96	87.64	2,394.98	6.11	148.23	1,598,855.43378	2,347,727.13206	39.45486	-107.81028
2,600.00	3.96	87.64	2,594.50	6.67	162.03	1,598,855.65107	2,347,740.94298	39.45486	-107.81023
2,800.00	3.96	87.64	2,794.02	7.24	175.83	1,598,855.86836	2,347,754.75390	39.45486	-107.81018
3,000.00	3.96	87.64	2,993.54	7.81	189.64	1,598,856.08566	2,347,768.56482	39.45486	-107.81014
3,200.00	3.96	87.64	3,193.07	8.38	203.44	1,598,856.30295	2,347,782.37573	39.45486	-107.81009
3,400.00	3.96	87.64	3,392.59	8.95	217.24	1,598,856.52024	2,347,796.18665	39.45487	-107.81004
3,600.00	3.96	87.64	3,592.11	9.52	231.04	1,598,856.73754	2,347,809.99757	39.45487	-107.80999
3,800.00	3.96	87.64	3,791.63	10.09	244.84	1,598,856.95483	2,347,823.80849	39.45487	-107.80994
3,803.38	3.96	87.64	3,795.00	10.10	245.08	1,598,856.95850	2,347,824.04157	39.45487	-107.80994
Top of "G" Sand									
3,903.61	3.96	87.64	3,895.00	10.38	251.99	1,598,857.06740	2,347,830.96356	39.45487	-107.80992
Base of "G" Sand									
4,000.00	3.96	87.64	3,991.16	10.65	258.64	1,598,857.17212	2,347,837.61941	39.45487	-107.80989
4,200.00	3.96	87.64	4,190.68	11.22	272.45	1,598,857.38942	2,347,851.43032	39.45487	-107.80984
4,400.00	3.96	87.64	4,390.20	11.79	286.25	1,598,857.60671	2,347,865.24124	39.45487	-107.80979
4,600.00	3.96	87.64	4,589.72	12.36	300.05	1,598,857.82400	2,347,879.05216	39.45488	-107.80975
4,800.00	3.96	87.64	4,789.24	12.93	313.85	1,598,858.04130	2,347,892.86308	39.45488	-107.80970
5,000.00	3.96	87.64	4,988.77	13.50	327.65	1,598,858.25859	2,347,906.67399	39.45488	-107.80965
5,200.00	3.96	87.64	5,188.29	14.07	341.45	1,598,858.47589	2,347,920.48491	39.45488	-107.80960
5,400.00	3.96	87.64	5,387.81	14.63	355.25	1,598,858.69318	2,347,934.29583	39.45488	-107.80955
5,600.00	3.96	87.64	5,587.33	15.20	369.06	1,598,858.91047	2,347,948.10675	39.45488	-107.80950
5,800.00	3.96	87.64	5,786.86	15.77	382.86	1,598,859.12777	2,347,961.91767	39.45488	-107.80945
6,000.00	3.96	87.64	5,986.38	16.34	396.66	1,598,859.34506	2,347,975.72858	39.45489	-107.80940
6,145.97	3.96	87.64	6,132.00	16.75	406.73	1,598,859.50365	2,347,985.80842	39.45489	-107.80937
Mesaverde									
6,200.00	3.96	87.64	6,185.90	16.91	410.46	1,598,859.56235	2,347,989.53949	39.45489	-107.80935
6,378.71	3.96	87.64	6,364.19	17.42	422.79	1,598,859.75652	2,348,001.88034	39.45489	-107.80931
Begin Drop -1.50°/100									
6,400.00	3.64	87.64	6,385.43	17.47	424.20	1,598,859.77872	2,348,003.29123	39.45489	-107.80931
6,600.00	0.64	87.64	6,585.27	17.78	431.67	1,598,859.89624	2,348,010.76098	39.45489	-107.80928
6,642.74	0.00	0.00	6,628.00	17.79	431.91	1,598,859.90000	2,348,011.00000	39.45489	-107.80928
Vertical									
6,800.00	0.00	0.00	6,785.26	17.79	431.91	1,598,859.90000	2,348,011.00000	39.45489	-107.80928
7,000.00	0.00	0.00	6,985.26	17.79	431.91	1,598,859.90000	2,348,011.00000	39.45489	-107.80928

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 44-7 - Slot B04
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 7943.00usft (Nabors 576 (26' RKB) kjs)
Project:	RU 07-07S-093W	MD Reference:	KELLY BUSHING @ 7943.00usft (Nabors 576 (26' RKB) kjs)
Site:	RU 44-7 Pad	North Reference:	True
Well:	RU 44-7	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2 28May14 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
7,142.74	0.00	0.00	7,128.00	17.79	431.91	1,598,859.90000	2,348,011.00000	39.45489	-107.80928
Top Gas - Approx. Top Gas									
7,200.00	0.00	0.00	7,185.26	17.79	431.91	1,598,859.90000	2,348,011.00000	39.45489	-107.80928
7,400.00	0.00	0.00	7,385.26	17.79	431.91	1,598,859.90000	2,348,011.00000	39.45489	-107.80928
7,600.00	0.00	0.00	7,585.26	17.79	431.91	1,598,859.90000	2,348,011.00000	39.45489	-107.80928
7,800.00	0.00	0.00	7,785.26	17.79	431.91	1,598,859.90000	2,348,011.00000	39.45489	-107.80928
8,000.00	0.00	0.00	7,985.26	17.79	431.91	1,598,859.90000	2,348,011.00000	39.45489	-107.80928
8,200.00	0.00	0.00	8,185.26	17.79	431.91	1,598,859.90000	2,348,011.00000	39.45489	-107.80928
8,400.00	0.00	0.00	8,385.26	17.79	431.91	1,598,859.90000	2,348,011.00000	39.45489	-107.80928
8,600.00	0.00	0.00	8,585.26	17.79	431.91	1,598,859.90000	2,348,011.00000	39.45489	-107.80928
8,800.00	0.00	0.00	8,785.26	17.79	431.91	1,598,859.90000	2,348,011.00000	39.45489	-107.80928
8,890.74	0.00	0.00	8,876.00	17.79	431.91	1,598,859.90000	2,348,011.00000	39.45489	-107.80928
Cameo Coals									
9,000.00	0.00	0.00	8,985.26	17.79	431.91	1,598,859.90000	2,348,011.00000	39.45489	-107.80928
9,200.00	0.00	0.00	9,185.26	17.79	431.91	1,598,859.90000	2,348,011.00000	39.45489	-107.80928
9,400.00	0.00	0.00	9,385.26	17.79	431.91	1,598,859.90000	2,348,011.00000	39.45489	-107.80928
9,573.74	0.00	0.00	9,559.00	17.79	431.91	1,598,859.90000	2,348,011.00000	39.45489	-107.80928
Coal D									
9,600.00	0.00	0.00	9,585.26	17.79	431.91	1,598,859.90000	2,348,011.00000	39.45489	-107.80928
9,742.74	0.00	0.00	9,728.00	17.79	431.91	1,598,859.90000	2,348,011.00000	39.45489	-107.80928
Rollins SS									
9,800.00	0.00	0.00	9,785.26	17.79	431.91	1,598,859.90000	2,348,011.00000	39.45489	-107.80928
9,892.74	0.00	0.00	9,878.00	17.79	431.91	1,598,859.90000	2,348,011.00000	39.45489	-107.80928
TD at 9892.74									

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	0.00	0.00	7,128.00	17.79	431.91	1,598,859.90000	2,348,011.00000	39.45489	-107.80928
- plan hits target center									
- Circle (radius 50.00)									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,302.40	1,300.00	9 5/8"	9.625	13.500	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 44-7 - Slot B04
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 7943.00usft (Nabors 576 (26' RKB) kjs)
Project:	RU 07-07S-093W	MD Reference:	KELLY BUSHING @ 7943.00usft (Nabors 576 (26' RKB) kjs)
Site:	RU 44-7 Pad	North Reference:	True
Well:	RU 44-7	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2 28May14 mab		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (bearing)	
3,803.38	3,795.00	Top of "G" Sand				
3,903.61	3,895.00	Base of "G" Sand				
6,145.97	6,132.00	Mesaverde				
7,142.74	7,128.00	Approx. Top Gas				
8,890.74	8,876.00	Cameo Coals				
9,573.74	9,559.00	Coal D				
9,742.74	9,728.00	Rollins SS				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
120.00	120.00	0.00	0.00	Start Build 1.50	
384.02	383.81	0.38	9.11	Hold 3.96° Inc, 87.64° Az	
6,378.71	6,364.19	17.42	422.79	Begin Drop -1.50°/100	
6,642.74	6,628.00	17.79	431.91	Vertical	
7,142.74	7,128.00	17.79	431.91	Top Gas	
9,892.74	9,878.00	17.79	431.91	TD at 9892.74	