

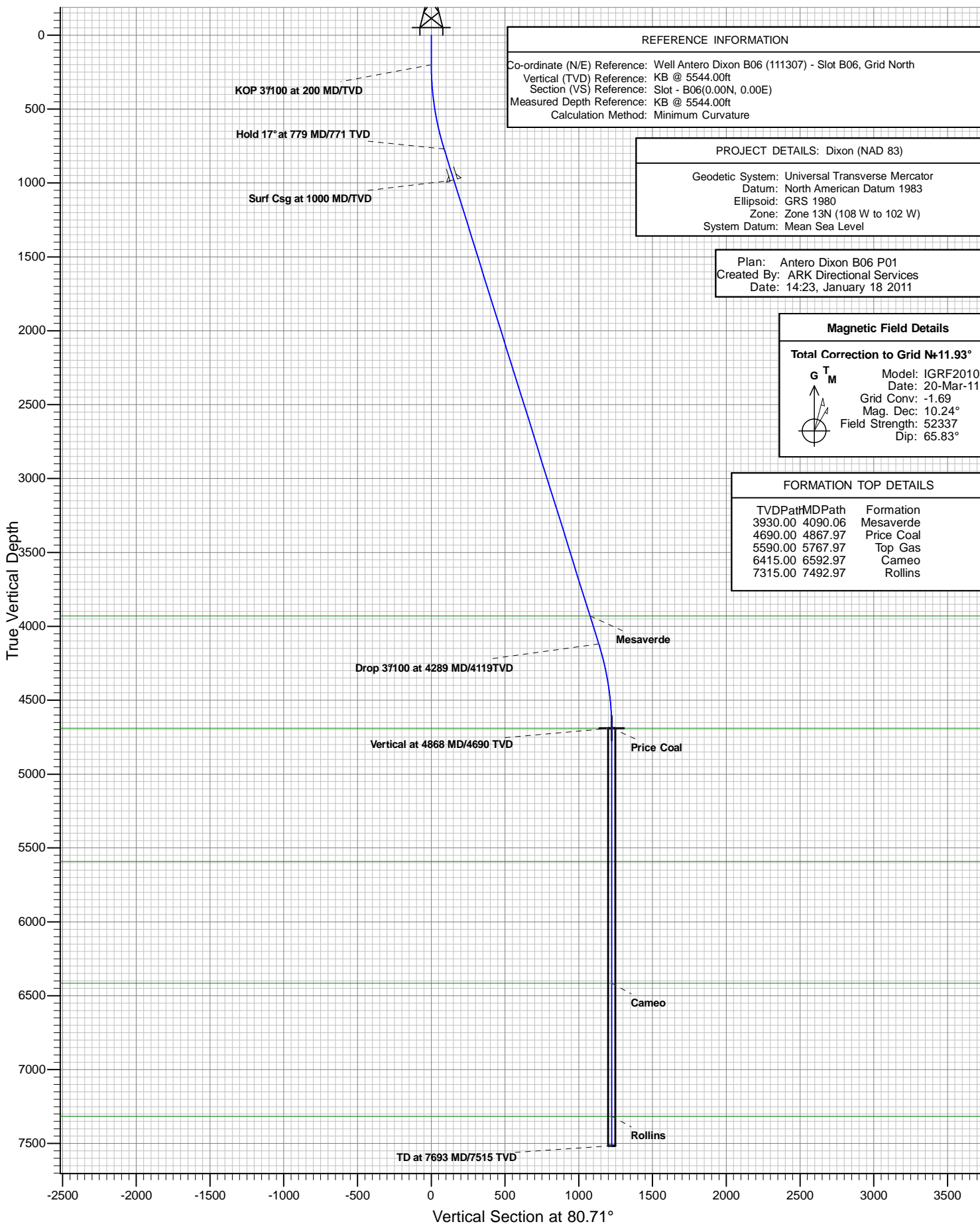


Antero Resources



VERTICAL SECTION VIEW

Antero Dixon B06 (111307)



Antero Resources

Dixon (NAD 83)

Dixon B

Antero Dixon B06 (111307) - Slot B06

Antero Dixon B06

Plan: Antero Dixon B06 P01

Standard Planning Report - Geographic

18 January, 2011

ARK Directional Services

Planning Report - Geographic

Database:	EDM SERVER DB	Local Co-ordinate Reference:	Well Antero Dixon B06 (111307) - Slot B06
Company:	Antero Resources	TVD Reference:	KB @ 5544.00ft
Project:	Dixon (NAD 83)	MD Reference:	KB @ 5544.00ft
Site:	Dixon B	North Reference:	Grid
Well:	Antero Dixon B06 (111307)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Antero Dixon B06		
Design:	Antero Dixon B06 P01		

Project	Dixon (NAD 83)		
Map System:	Universal Transverse Mercator	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Zone 13N (108 W to 102 W)		

Site	Dixon B				
Site Position:		Northing:	14,364,517.556 usft	Latitude:	39.524071000°N
From:	Lat/Long	Easting:	890,418.038 usft	Longitude:	107.659523000°W
Position Uncertainty:	0.00 ft	Slot Radius:	13.20 in	Grid Convergence:	-1.69 °

Well	Antero Dixon B06 (111307) - Slot B06					
Well Position	+N/-S	0.00 ft	Northing:	14,364,536.264 usft	Latitude:	39.524116849°N
	+E/-W	0.00 ft	Easting:	890,350.526 usft	Longitude:	107.659764118°W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	5,520.00 ft

Wellbore	Antero Dixon B06				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2011/03/20	10.24	65.83	52,337

Design	Antero Dixon B06 P01				
Audit Notes:					
Version:	Phase:	PROTOTYPE		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	80.71	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
779.46	17.38	80.71	770.61	14.08	86.09	3.00	3.00	0.00	80.71	
4,288.52	17.38	80.71	4,119.39	183.27	1,120.75	0.00	0.00	0.00	0.00	
4,867.97	0.00	0.00	4,690.00	197.34	1,206.84	3.00	-3.00	0.00	180.00	BH B06
7,692.97	0.00	0.00	7,515.00	197.34	1,206.84	0.00	0.00	0.00	0.00	

ARK Directional Services

Planning Report - Geographic

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Company:	Antero Resources	TVD Reference:	KB @ 5544.00ft
Project:	Dixon (NAD 83)	MD Reference:	KB @ 5544.00ft
Site:	Dixon B	North Reference:	Grid
Well:	Antero Dixon B06 (111307)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Antero Dixon B06		
Design:	Antero Dixon B06 P01		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,364,536.264	890,350.526	39.524116849°N	107.659764118°W
100.00	0.00	0.00	100.00	0.00	0.00	14,364,536.264	890,350.526	39.524116849°N	107.659764118°W
200.00	0.00	0.00	200.00	0.00	0.00	14,364,536.264	890,350.526	39.524116849°N	107.659764118°W
KOP 3°/100 at 200 MD/TVD									
300.00	3.00	80.71	299.95	0.42	2.58	14,364,536.686	890,353.109	39.524118217°N	107.659755011°W
400.00	6.00	80.71	399.63	1.69	10.33	14,364,537.952	890,360.851	39.524122319°N	107.659727718°W
500.00	9.00	80.71	498.77	3.79	23.21	14,364,540.058	890,373.731	39.524129142°N	107.659682311°W
600.00	12.00	80.71	597.08	6.74	41.19	14,364,542.999	890,391.714	39.524138667°N	107.659618917°W
700.00	15.00	80.71	694.31	10.50	64.22	14,364,546.766	890,414.749	39.524150870°N	107.659537708°W
779.46	17.38	80.71	770.61	14.08	86.09	14,364,550.341	890,436.615	39.524162452°N	107.659460623°W
Hold 17° at 779 MD/771 TVD									
800.00	17.38	80.71	790.21	15.07	92.15	14,364,551.332	890,442.672	39.524165661°N	107.659439273°W
900.00	17.38	80.71	885.64	19.89	121.63	14,364,556.153	890,472.157	39.524181279°N	107.659335327°W
1,000.00	17.38	80.71	981.08	24.71	151.12	14,364,560.975	890,501.642	39.524196898°N	107.659231382°W
Surf Csg at 1000 MD/TVD									
1,100.00	17.38	80.71	1,076.51	29.53	180.60	14,364,565.796	890,531.128	39.524212516°N	107.659127436°W
1,200.00	17.38	80.71	1,171.94	34.35	210.09	14,364,570.618	890,560.613	39.524228135°N	107.659023490°W
1,300.00	17.38	80.71	1,267.37	39.18	239.57	14,364,575.439	890,590.098	39.524243753°N	107.658919544°W
1,400.00	17.38	80.71	1,362.81	44.00	269.06	14,364,580.261	890,619.583	39.524259371°N	107.658815598°W
1,500.00	17.38	80.71	1,458.24	48.82	298.54	14,364,585.082	890,649.069	39.524274990°N	107.658711652°W
1,600.00	17.38	80.71	1,553.67	53.64	328.03	14,364,589.904	890,678.554	39.524290608°N	107.658607706°W
1,700.00	17.38	80.71	1,649.11	58.46	357.51	14,364,594.725	890,708.039	39.524306226°N	107.658503760°W
1,800.00	17.38	80.71	1,744.54	63.28	387.00	14,364,599.547	890,737.525	39.524321844°N	107.658399814°W
1,900.00	17.38	80.71	1,839.97	68.10	416.49	14,364,604.368	890,767.010	39.524337461°N	107.658295868°W
2,000.00	17.38	80.71	1,935.40	72.93	445.97	14,364,609.190	890,796.495	39.524353079°N	107.658191922°W
2,100.00	17.38	80.71	2,030.84	77.75	475.46	14,364,614.011	890,825.981	39.524368697°N	107.658087976°W
2,200.00	17.38	80.71	2,126.27	82.57	504.94	14,364,618.833	890,855.466	39.524384314°N	107.657984029°W
2,300.00	17.38	80.71	2,221.70	87.39	534.43	14,364,623.654	890,884.951	39.524399932°N	107.657880083°W
2,400.00	17.38	80.71	2,317.13	92.21	563.91	14,364,628.476	890,914.437	39.524415549°N	107.657776136°W
2,500.00	17.38	80.71	2,412.57	97.03	593.40	14,364,633.297	890,943.922	39.524431166°N	107.657672190°W
2,600.00	17.38	80.71	2,508.00	101.86	622.88	14,364,638.119	890,973.407	39.524446783°N	107.657568243°W
2,700.00	17.38	80.71	2,603.43	106.68	652.37	14,364,642.940	891,002.893	39.524462401°N	107.657464297°W
2,800.00	17.38	80.71	2,698.86	111.50	681.85	14,364,647.762	891,032.378	39.524478018°N	107.657360350°W
2,900.00	17.38	80.71	2,794.30	116.32	711.34	14,364,652.583	891,061.863	39.524493634°N	107.657256404°W
3,000.00	17.38	80.71	2,889.73	121.14	740.82	14,364,657.405	891,091.349	39.524509251°N	107.657152457°W
3,100.00	17.38	80.71	2,985.16	125.96	770.31	14,364,662.226	891,120.834	39.524524868°N	107.657048510°W
3,200.00	17.38	80.71	3,080.59	130.78	799.80	14,364,667.048	891,150.319	39.524540485°N	107.656944563°W
3,300.00	17.38	80.71	3,176.03	135.61	829.28	14,364,671.869	891,179.805	39.524556101°N	107.656840616°W
3,400.00	17.38	80.71	3,271.46	140.43	858.77	14,364,676.690	891,209.290	39.524571718°N	107.656736669°W
3,500.00	17.38	80.71	3,366.89	145.25	888.25	14,364,681.512	891,238.775	39.524587334°N	107.656632722°W
3,600.00	17.38	80.71	3,462.32	150.07	917.74	14,364,686.333	891,268.260	39.524602950°N	107.656528775°W
3,700.00	17.38	80.71	3,557.76	154.89	947.22	14,364,691.155	891,297.746	39.524618566°N	107.656424828°W
3,800.00	17.38	80.71	3,653.19	159.71	976.71	14,364,695.976	891,327.231	39.524634182°N	107.656320881°W
3,900.00	17.38	80.71	3,748.62	164.53	1,006.19	14,364,700.798	891,356.716	39.524649798°N	107.656216934°W
4,000.00	17.38	80.71	3,844.05	169.36	1,035.68	14,364,705.619	891,386.202	39.524665414°N	107.656112987°W
4,090.06	17.38	80.71	3,930.00	173.70	1,062.23	14,364,709.962	891,412.756	39.524679478°N	107.656019371°W
Mesaverde									
4,100.00	17.38	80.71	3,939.49	174.18	1,065.16	14,364,710.441	891,415.687	39.524681030°N	107.656009039°W
4,200.00	17.38	80.71	4,034.92	179.00	1,094.65	14,364,715.262	891,445.172	39.524696646°N	107.655905092°W
4,288.52	17.38	80.71	4,119.39	183.27	1,120.75	14,364,719.530	891,471.273	39.524710469°N	107.655813078°W
Drop 3°/100 at 4289 MD/4119TVD									
4,300.00	17.04	80.71	4,130.36	183.82	1,124.10	14,364,720.079	891,474.625	39.524712244°N	107.655801259°W
4,400.00	14.04	80.71	4,226.69	188.14	1,150.54	14,364,724.401	891,501.061	39.524726244°N	107.655708063°W
4,500.00	11.04	80.71	4,324.30	191.64	1,171.96	14,364,727.905	891,522.485	39.524737590°N	107.655632536°W

ARK Directional Services

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Database:	EDM SERVER DB	Local Co-ordinate Reference:	Well Antero Dixon B06 (111307) - Slot B06
Company:	Antero Resources	TVD Reference:	KB @ 5544.00ft
Project:	Dixon (NAD 83)	MD Reference:	KB @ 5544.00ft
Site:	Dixon B	North Reference:	Grid
Well:	Antero Dixon B06 (111307)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Antero Dixon B06		
Design:	Antero Dixon B06 P01		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,600.00	8.04	80.71	4,422.90	194.32	1,188.31	14,364,730.579	891,538.838	39.524746251°N	107.655574885°W
4,700.00	5.04	80.71	4,522.24	196.15	1,199.55	14,364,732.416	891,550.075	39.524752203°N	107.655535267°W
4,800.00	2.04	80.71	4,622.04	197.15	1,205.64	14,364,733.413	891,556.167	39.524755429°N	107.655513792°W
4,867.97	0.00	0.00	4,690.00	197.34	1,206.84	14,364,733.608	891,557.361	39.524756061°N	107.655509584°W
Vertical at 4868 MD/4690 TVD - Price Coal - BH B06									
4,900.00	0.00	0.00	4,722.03	197.34	1,206.84	14,364,733.608	891,557.361	39.524756061°N	107.655509584°W
5,000.00	0.00	0.00	4,822.03	197.34	1,206.84	14,364,733.608	891,557.361	39.524756061°N	107.655509584°W
5,100.00	0.00	0.00	4,922.03	197.34	1,206.84	14,364,733.608	891,557.361	39.524756061°N	107.655509584°W
5,200.00	0.00	0.00	5,022.03	197.34	1,206.84	14,364,733.608	891,557.361	39.524756061°N	107.655509584°W
5,300.00	0.00	0.00	5,122.03	197.34	1,206.84	14,364,733.608	891,557.361	39.524756061°N	107.655509584°W
5,400.00	0.00	0.00	5,222.03	197.34	1,206.84	14,364,733.608	891,557.361	39.524756061°N	107.655509584°W
5,500.00	0.00	0.00	5,322.03	197.34	1,206.84	14,364,733.608	891,557.361	39.524756061°N	107.655509584°W
5,600.00	0.00	0.00	5,422.03	197.34	1,206.84	14,364,733.608	891,557.361	39.524756061°N	107.655509584°W
5,700.00	0.00	0.00	5,522.03	197.34	1,206.84	14,364,733.608	891,557.361	39.524756061°N	107.655509584°W
5,767.97	0.00	0.00	5,590.00	197.34	1,206.84	14,364,733.608	891,557.361	39.524756061°N	107.655509584°W
Top Gas									
5,800.00	0.00	0.00	5,622.03	197.34	1,206.84	14,364,733.608	891,557.361	39.524756061°N	107.655509584°W
5,900.00	0.00	0.00	5,722.03	197.34	1,206.84	14,364,733.608	891,557.361	39.524756061°N	107.655509584°W
6,000.00	0.00	0.00	5,822.03	197.34	1,206.84	14,364,733.608	891,557.361	39.524756061°N	107.655509584°W
6,100.00	0.00	0.00	5,922.03	197.34	1,206.84	14,364,733.608	891,557.361	39.524756061°N	107.655509584°W
6,200.00	0.00	0.00	6,022.03	197.34	1,206.84	14,364,733.608	891,557.361	39.524756061°N	107.655509584°W
6,300.00	0.00	0.00	6,122.03	197.34	1,206.84	14,364,733.608	891,557.361	39.524756061°N	107.655509584°W
6,400.00	0.00	0.00	6,222.03	197.34	1,206.84	14,364,733.608	891,557.361	39.524756061°N	107.655509584°W
6,500.00	0.00	0.00	6,322.03	197.34	1,206.84	14,364,733.608	891,557.361	39.524756061°N	107.655509584°W
6,592.97	0.00	0.00	6,415.00	197.34	1,206.84	14,364,733.608	891,557.361	39.524756061°N	107.655509584°W
Cameo									
6,600.00	0.00	0.00	6,422.03	197.34	1,206.84	14,364,733.608	891,557.361	39.524756061°N	107.655509584°W
6,700.00	0.00	0.00	6,522.03	197.34	1,206.84	14,364,733.608	891,557.361	39.524756061°N	107.655509584°W
6,800.00	0.00	0.00	6,622.03	197.34	1,206.84	14,364,733.608	891,557.361	39.524756061°N	107.655509584°W
6,900.00	0.00	0.00	6,722.03	197.34	1,206.84	14,364,733.608	891,557.361	39.524756061°N	107.655509584°W
7,000.00	0.00	0.00	6,822.03	197.34	1,206.84	14,364,733.608	891,557.361	39.524756061°N	107.655509584°W
7,100.00	0.00	0.00	6,922.03	197.34	1,206.84	14,364,733.608	891,557.361	39.524756061°N	107.655509584°W
7,200.00	0.00	0.00	7,022.03	197.34	1,206.84	14,364,733.608	891,557.361	39.524756061°N	107.655509584°W
7,300.00	0.00	0.00	7,122.03	197.34	1,206.84	14,364,733.608	891,557.361	39.524756061°N	107.655509584°W
7,400.00	0.00	0.00	7,222.03	197.34	1,206.84	14,364,733.608	891,557.361	39.524756061°N	107.655509584°W
7,492.97	0.00	0.00	7,315.00	197.34	1,206.84	14,364,733.608	891,557.361	39.524756061°N	107.655509584°W
Rollins									
7,500.00	0.00	0.00	7,322.03	197.34	1,206.84	14,364,733.608	891,557.361	39.524756061°N	107.655509584°W
7,600.00	0.00	0.00	7,422.03	197.34	1,206.84	14,364,733.608	891,557.361	39.524756061°N	107.655509584°W
7,692.97	0.00	0.00	7,515.00	197.34	1,206.84	14,364,733.608	891,557.361	39.524756061°N	107.655509584°W
TD at 7693 MD/7515 TVD									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BH B06 - plan hits target center - Circle (radius 25.00)	0.00	360.00	4,690.00	197.34	1,206.84	14,364,733.608	891,557.361	39.524756061°N	107.655509584°W

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Site:	Dixon B	North Reference:	Grid
Well:	Antero Dixon B06 (111307)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Antero Dixon B06		
Design:	Antero Dixon B06 P01		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,000.00	981.08	Surf Csg at 1000 MD/TVD	5.50	6.00	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,090.06	3,930.00	Mesaverde			
4,867.97	4,690.00	Price Coal			
5,767.97	5,590.00	Top Gas			
6,592.97	6,415.00	Cameo			
7,492.97	7,315.00	Rollins			

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
200.00	200.00	0.00	0.00	KOP 3°/100 at 200 MD/TVD	
779.46	770.61	14.08	86.09	Hold 17° at 779 MD/771 TVD	
4,288.52	4,119.39	183.27	1,120.75	Drop 3°/100 at 4289 MD/4119TVD	
4,867.97	4,690.00	197.34	1,206.84	Vertical at 4868 MD/4690 TVD	
7,692.97	7,515.00	197.34	1,206.84	TD at 7693 MD/7515 TVD	