

Bonanza Creek Energy, Inc.

Weld County, CO

Sec. 1-T5N-R62W

State Antelope 11-14-1HZ

Plan A

Plan: Plan A - Rev 1 Proposal

Sperry Drilling Services

Proposal Report

19 August, 2011

Well Coordinates: 1,404,027.80 N, 3,340,000.49 E (40° 26' 09.71" N, 104° 16' 42.71" W)

Ground Level: 4,679.00 ft

Local Coordinate Origin: Centered on Well State Antelope 11-14-1HZ

Viewing Datum: KB @ 4695.00ft (Ensign 14)

TVDs to System: N

North Reference: True

Unit System: API - US Survey Feet - Custom

Geodetic Scale Factor Applied

Version: 2003.16 Build: 43I

HALLIBURTON

Plan Report for State Antelope 11-14-1HZ - Plan A - Rev 1 Proposal

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	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	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,510.80	0.00	0.00	5,510.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00

KOP - Begin 8.0°/100ft Build at 5510.80ft

Plan Report for State Antelope 11-14-1HZ - Plan A - Rev 1 Proposal

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
5,600.00	7.14	180.76	5,599.77	-5.55	-0.07	5.55	8.00	8.00	0.00	180.76
5,700.00	15.14	180.76	5,697.81	-24.84	-0.33	24.85	8.00	8.00	0.00	0.00
5,800.00	23.14	180.76	5,792.20	-57.59	-0.77	57.60	8.00	8.00	0.00	0.00
5,900.00	31.14	180.76	5,881.13	-103.16	-1.38	103.17	8.00	8.00	0.00	0.00
6,000.00	39.14	180.76	5,962.84	-160.66	-2.14	160.68	8.00	8.00	0.00	0.00
6,100.00	47.14	180.76	6,035.75	-228.97	-3.05	228.99	8.00	8.00	0.00	0.00
6,200.00	55.14	180.76	6,098.45	-306.77	-4.09	306.79	8.00	8.00	0.00	0.00
6,300.00	63.14	180.76	6,149.71	-392.53	-5.23	392.56	8.00	8.00	0.00	0.00
6,400.00	71.14	180.76	6,188.53	-484.59	-6.46	484.63	8.00	8.00	0.00	0.00
6,500.00	79.14	180.76	6,214.16	-581.16	-7.75	581.21	8.00	8.00	0.00	0.00
6,600.00	87.14	180.76	6,226.11	-680.35	-9.07	680.41	8.00	8.00	0.00	0.00
6,635.80	90.00	180.76	6,227.00	-716.13	-9.55	716.19	8.00	8.00	0.00	0.00
End of Build at 6635.80ft - 7" Csg										
6,700.00	90.00	180.76	6,227.00	-780.33	-10.40	780.39	0.00	0.00	0.00	0.00
6,800.00	90.00	180.76	6,227.00	-880.32	-11.73	880.39	0.00	0.00	0.00	0.00
6,900.00	90.00	180.76	6,227.00	-980.31	-13.07	980.39	0.00	0.00	0.00	0.00
7,000.00	90.00	180.76	6,227.00	-1,080.30	-14.40	1,080.39	0.00	0.00	0.00	0.00
7,100.00	90.00	180.76	6,227.00	-1,180.29	-15.73	1,180.39	0.00	0.00	0.00	0.00
7,200.00	90.00	180.76	6,227.00	-1,280.28	-17.07	1,280.39	0.00	0.00	0.00	0.00
7,300.00	90.00	180.76	6,227.00	-1,380.27	-18.40	1,380.39	0.00	0.00	0.00	0.00
7,400.00	90.00	180.76	6,227.00	-1,480.26	-19.73	1,480.39	0.00	0.00	0.00	0.00
7,500.00	90.00	180.76	6,227.00	-1,580.25	-21.06	1,580.39	0.00	0.00	0.00	0.00
7,600.00	90.00	180.76	6,227.00	-1,680.25	-22.40	1,680.39	0.00	0.00	0.00	0.00
7,700.00	90.00	180.76	6,227.00	-1,780.24	-23.73	1,780.39	0.00	0.00	0.00	0.00
7,800.00	90.00	180.76	6,227.00	-1,880.23	-25.06	1,880.39	0.00	0.00	0.00	0.00
7,900.00	90.00	180.76	6,227.00	-1,980.22	-26.40	1,980.39	0.00	0.00	0.00	0.00
8,000.00	90.00	180.76	6,227.00	-2,080.21	-27.73	2,080.39	0.00	0.00	0.00	0.00
8,100.00	90.00	180.76	6,227.00	-2,180.20	-29.06	2,180.39	0.00	0.00	0.00	0.00
8,200.00	90.00	180.76	6,227.00	-2,280.19	-30.39	2,280.39	0.00	0.00	0.00	0.00
8,300.00	90.00	180.76	6,227.00	-2,380.18	-31.73	2,380.39	0.00	0.00	0.00	0.00
8,400.00	90.00	180.76	6,227.00	-2,480.17	-33.06	2,480.39	0.00	0.00	0.00	0.00
8,500.00	90.00	180.76	6,227.00	-2,580.17	-34.39	2,580.39	0.00	0.00	0.00	0.00
Hold Angle at 90.00°										
8,600.00	90.00	180.76	6,227.00	-2,680.16	-35.73	2,680.39	0.00	0.00	0.00	0.00
8,700.00	90.00	180.76	6,227.00	-2,780.15	-37.06	2,780.39	0.00	0.00	0.00	0.00
8,800.00	90.00	180.76	6,227.00	-2,880.14	-38.39	2,880.39	0.00	0.00	0.00	0.00
8,900.00	90.00	180.76	6,227.00	-2,980.13	-39.72	2,980.39	0.00	0.00	0.00	0.00
9,000.00	90.00	180.76	6,227.00	-3,080.12	-41.06	3,080.39	0.00	0.00	0.00	0.00
9,100.00	90.00	180.76	6,227.00	-3,180.11	-42.39	3,180.39	0.00	0.00	0.00	0.00
9,200.00	90.00	180.76	6,227.00	-3,280.10	-43.72	3,280.39	0.00	0.00	0.00	0.00
9,300.00	90.00	180.76	6,227.00	-3,380.09	-45.06	3,380.39	0.00	0.00	0.00	0.00
9,400.00	90.00	180.76	6,227.00	-3,480.09	-46.39	3,480.39	0.00	0.00	0.00	0.00
9,500.00	90.00	180.76	6,227.00	-3,580.08	-47.72	3,580.39	0.00	0.00	0.00	0.00
9,600.00	90.00	180.76	6,227.00	-3,680.07	-49.05	3,680.39	0.00	0.00	0.00	0.00
9,700.00	90.00	180.76	6,227.00	-3,780.06	-50.39	3,780.39	0.00	0.00	0.00	0.00
9,800.00	90.00	180.76	6,227.00	-3,880.05	-51.72	3,880.39	0.00	0.00	0.00	0.00
9,900.00	90.00	180.76	6,227.00	-3,980.04	-53.05	3,980.39	0.00	0.00	0.00	0.00
10,000.00	90.00	180.76	6,227.00	-4,080.03	-54.39	4,080.39	0.00	0.00	0.00	0.00
10,100.00	90.00	180.76	6,227.00	-4,180.02	-55.72	4,180.39	0.00	0.00	0.00	0.00
10,200.00	90.00	180.76	6,227.00	-4,280.01	-57.05	4,280.39	0.00	0.00	0.00	0.00
10,300.00	90.00	180.76	6,227.00	-4,380.01	-58.38	4,380.39	0.00	0.00	0.00	0.00
10,306.33	90.00	180.76	6,227.00	-4,386.33	-58.47	4,386.72	0.00	0.00	0.00	0.00

Plan Report for State Antelope 11-14-1HZ - Plan A - Rev 1 Proposal**Plan Annotations**

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
5,510.80	5,510.80	0.00	0.00	KOP - Begin 8.0°/100ft Build at 5510.80ft
6,635.80	6,227.00	-716.13	-9.55	End of Build at 6635.80ft
8,500.00	6,227.00	-2,580.17	-34.39	Hold Angle at 90.00°
10,306.33	6,227.00	-4,386.33	-58.47	Total Depth at 10306.33ft

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin		Start TVD (ft)
				+N/-S (ft)	+E/-W (ft)	
Target	State Antelope 11-14-1HZ_PlanA - Rev1_BHL Tgt	180.76	Slot	0.00	0.00	0.00

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
0.00	10,306.33	Plan A - Rev 1 Proposal	MWD

Casing Details

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
6,635.80	6,227.00	7" Csg	7	8-3/4

Targets associated with this wellbore

Target Name	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Shape
State Antelope 11-14-1HZ_PlanA - Rev1_BHL Tgt	6,227.00	-4,386.33	-58.47	Point
State Antelope 11-14-1HZ_Sec. Lines	0.00	0.00	0.00	Polygon

North Reference Sheet for Sec. 1-T5N-R62W - State Antelope 11-14-1HZ - Plan A

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to True North Reference.

Vertical Depths are relative to KB @ 4695.00ft (Ensign 14). Northing and Easting are relative to State Antelope 11-14-1HZ

Coordinate System is US State Plane 1983, Colorado Northern Zone using datum North American Datum 1983, ellipsoid GRS 1980

Projection method is Lambert Conformal Conic (2 parallel)

Central Meridian is -105.50°, Longitude Origin:0.000000°, Latitude Origin:40.783333°

False Easting: 3,000,000.00ft, False Northing: 1,000,000.00ft, Scale Reduction: 0.99996206

Grid Coordinates of Well: 1,404,027.80 ft N, 3,340,000.49 ft E

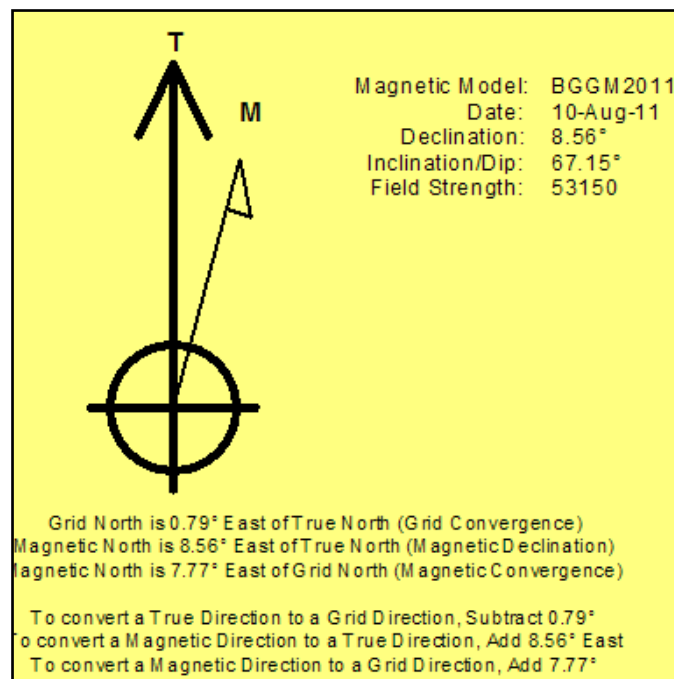
Geographical Coordinates of Well: 40° 26' 09.71" N, 104° 16' 42.71" W

Grid Convergence at Surface is: 0.79°

Based upon Minimum Curvature type calculations, at a Measured Depth of 10,306.33ft

the Bottom Hole Displacement is 4,386.72ft in the Direction of 180.76° (True).

Magnetic Convergence at surface is: -7.77° (10 August 2011, , BGGM2011)



Project: Weld County, CO
Site: Sec. 1-T5N-R62W
Well: State Antelope 11-14-1HZ
Wellbore: Plan A
Design: Plan A - Rev 1 Proposal

Bonanza Creek Energy, Inc.

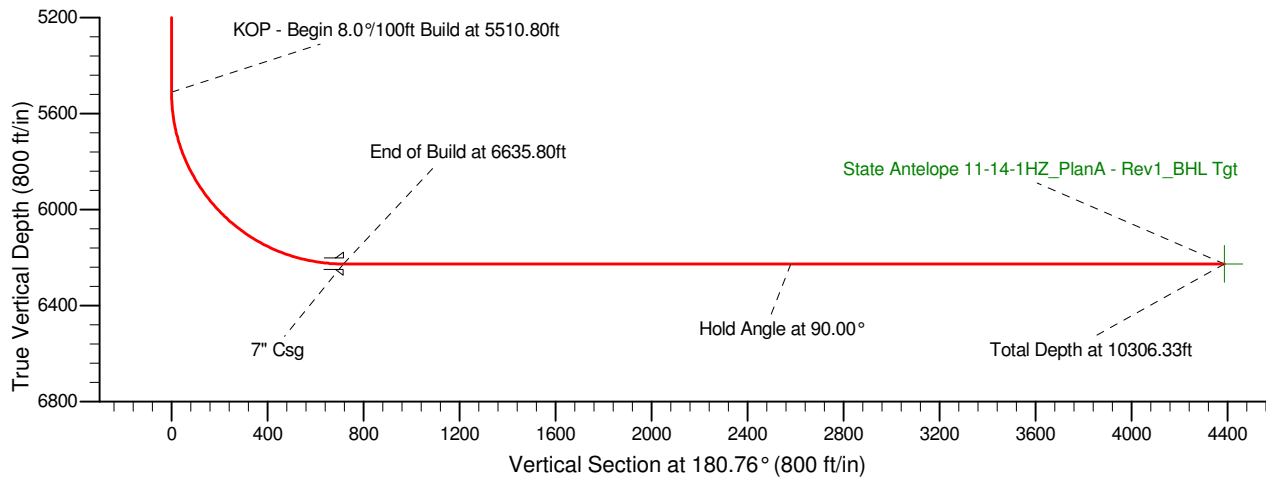
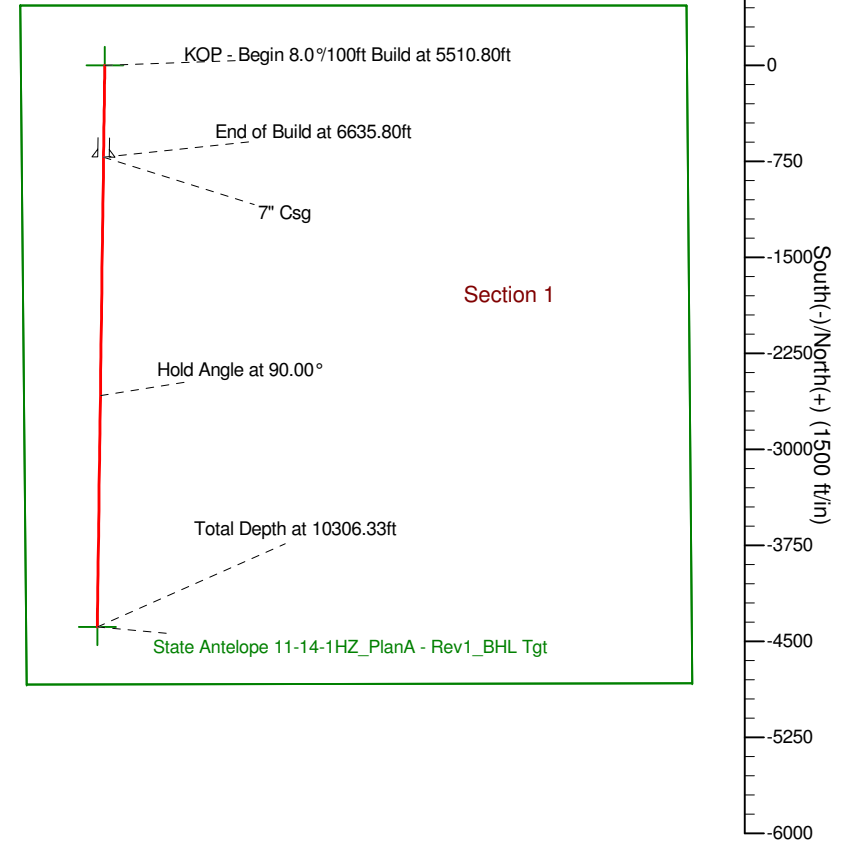
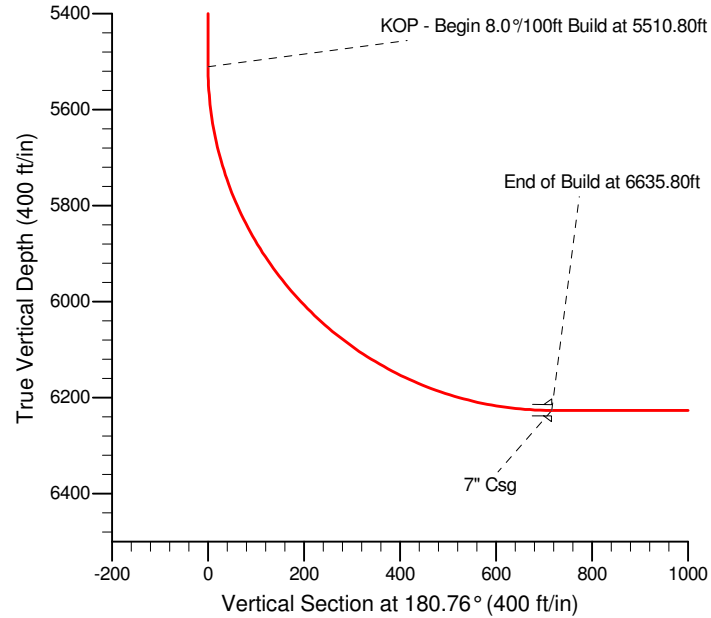
HALLIBURTON
Sperry Drilling

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	5510.80	0.00	0.00	5510.80	0.00	0.00	0.00	0.00	0.00	
3	6635.80	90.00	180.76	6227.00	-716.13	-9.55	8.00	180.76	716.20	
4	10306.33	90.00	180.76	6227.00	-4386.33	-58.47	0.00	0.00	4386.72	State Antelope 11-14-1HZ_PlanA - Rev1_BHL Tgt

West(-)/East(+) (1500 ft/in)

-1500 -750 0 750 1500 2250 3000 3750 4500



WELL DETAILS: State Antelope 11-14-1HZ

Ground Level: 4679.00	
Northing 1404027.80	Easting 3340000.49
Latitude 40.436030	Longitude -104.278530

Plan: Plan A - Rev 1 Proposal (State Antelope 11-14-1HZ/Plan A)

Created By: Jay Lantz Date: 16:06, August 19 2011

Approved: _____ Date: _____