

WELLBORE DIAGRAM

Bonanza Creek Energy
Antelope 11-14-15HNB

SHL: NWNW 382' FNL & 1093' FWL
Sec 15, T5N, R62W
BHL: SWSW 470' FSL & 660' FWL
Sec 15, T5N, R62W

Weld County, CO
05-123-39888

Updated Date
9/17/2014

KB Elev 4715' ft
GL Elev 4698' ft
KB to GL 17' ft

Tubulars	Internal Yield	Safety Factor	Maxable Allowable	Capacity Factor
9 5/8" 36# J-55	3,520	0.75	2,640	0.0773
7" 26# P-110	9,960	0.75	7,470	0.0382
4 1/2" 11.6 P-110	10,690	0.75	8,018	0.0155

Spud Date: 9/8/2014

9 5/8", 36#, J-55, LTC
442 ft

TOC _____ ft

Surface to Liner Top vol
249 BBL

7", 26#, P-110, LTC
6776 ft.

TOL = 6526 ft. @ 71 °

Baker Hughes Liner & Sleeves w/ 4.5", 11.6# P-110

High Marl Content 10200' to TD

KOP
5840 ft

TVD
6330 ft

Interval	Sleeve Top (Ft)	Ball Size Composite Balls	Measured Ball Size	(Bbls)	Rounddown	Alpha Sleeve 70 bbl. Slow Down
					Flush (Bbls)	Flush-Slowdown (Bbls)
1	10,822	1.250	Alpha	316.05	316	246
2	10,661	1.500		313.55	313	273
3	10,552	1.563		311.86	311	271
4	10,397	1.625		309.45	309	269
5	10,242	1.688		307.04	307	267
6	10,086	1.750		304.62	304	264
7	9,939	1.813		302.33	302	262
8	9,784	1.875		299.92	299	259
9	9,677	1.938		298.26	298	258
10	9,521	2.000		295.84	295	255
11	9,366	2.063		293.43	293	253
12	9,212	2.125		291.03	291	251
13	9,056	2.188		288.61	288	248
14	8,948	2.250		286.93	286	246
15	8,792	2.313		284.51	284	244
16	8,637	2.375		282.10	282	242
17	8,482	2.438		279.69	279	239
18	8,326	2.500		277.27	277	237
19	8,217	2.625		275.57	275	235
20	8,064	2.750		273.19	273	233
21	7,909	2.875		270.79	270	230
22	7,757	3.000		268.42	268	228
23	7,606	3.125		266.08	266	226
24	7,450	3.250		263.65	263	223
25	7,343	3.375		261.99	261	221
26	7,194	3.500		259.67	259	219
27	7,045	3.625		257.36	257	217
28	6,894	3.750		255.01	255	215

Sleeve Tops

Packer Top

