

Revised Casing program 5/31/12
Hilcorp State 14-9BH

Total Measured Depth (MD)	Hole Diameter	Casing Diameter	Casing Weight And Grade	Cement
0' - 40'	24"	20"	Conductor Casing	Redimix to surface
Surface 0' - 2,000'	17-1/2"	13-3/8"	K-55 54.5 lbm/ft	Lead: +/- 870 sks Swiftcem B2 Tail +/- 410 sks Swiftcem B2*
Intermediate 0' - 6,740'	12-1/4"	9-5/8"	K-55 36 lbm/ft	Lead +/- 530 sks Extendacem Tail +/- 570 sks Extendacem**
Horizontal Production 0' - 10,631'	8-1/2"	5-1/2"	HCP 110 20 lbm/ft	Lead +/- 1010 sks Expandacem**

* Cement volume calculated based on gauge hole plus 100%.

** Cement volume calculated based on gauge hole plus 35%.

Yields:	Surface:	Lead:	Swiftcem B2 =	2.42 ft ³ /sk (12.0 ppg) 14.36 gal/sk
		Tail:	Swiftcem B2 =	1.72 ft ³ /sk (13.5 ppg) 9.09 gal/sk
	Intermediate:	Lead:	Extendacem =	2.03 ft ³ /sk (11.8 ppg) 11.08 gal/sk
		Tail:	Extendacem =	1.69 ft ³ /sk (12.5 ppg) 8.54 gal/sk
	Production:	Lead:	Extendacem =	1.67 ft ³ /sk (13.8 ppg) 7.75 gal/sk