

30-015-38112

Type	Description	Volume	Volume
Casing	Surface	133 bbls circulated	133 bbl retained
Casing	Intermediate 1	375 bbls circulated	374 bbl retained
Casing	Intermediate 2	61 bbls circulated	61 bbl retained

CASING:

DATE	SIZE	WT	GRD	CSA	SX	CLASS	TOC	HOLE SIZE	HOLE DEPTH
9/5/2010	20"	133	J-55	1104'	3500	C	Circ.	26"	1107'
9/12/2010	9 5/8"	40	J-55	3859'	3525	C	Circ.	17 1/2"	2765'
8/21/2010	7"	26	N-80	8089'	1165	C	Circ.	8 3/4"	8095'

LINER:

DATE	SIZE	WT	GRD	CSA Top	CSA Bottom	SX	LATERAL	TOC	HOLE SIZE	HOLE DEPTH
10/6/2010	4.5"	11.6	HCP-110	7914	13,190'		#1		6 1/8"	13,240'
10/29/2010	4.5"	11.6	HCP-110	6910	13,365'		#2		6 1/8"	13,419'

Both laterals were frac'd in multiple stages. Lateral 1 (lower) was frac'd in 14 stages.
 Lateral 2 (upper) was frac'd in 19 stages.

