

Piceance Energy, LLC
Gunderson 29-11E
Slot B-11
Patterson 306 (22-ft KB)

API # : 05-077-09768-00
SE/4 NE/4 S29/T9S/R93W/6th PM
Mesa County, CO
Date of diagram : 4/5/2015

Vertical datum ----- 7553' RKB Elevation

----- 7531' Pad Elevation

16" OD Conductor 82 -ft MD RKB
(in 26" hole, grouted to ground level)

8-5/8" Shoe 1546 -ft MD RKB
11" Hole 1556 -ft MD RKB

Formation	Prognosis
'G' Sand	2736 -ft MD RKB
Williams Fork	4591 -ft MD RKB
Top of Gas	5793 -ft MD RKB
Cameo	6893 -ft MD RKB
Base Cameo Coal	7551 -ft MD RKB
Rollins	7593 -ft MD RKB

Top of 20'
Marker Joint 5950 -ft MD RKB

Top of 20'
Marker Joint 6852 -ft MD RKB

4-1/2" Float Collar (PBTD) 7705 -ft MD RKB
4-1/2" Float Shoe 7795 -ft MD RKB
7-7/8" Hole TD 7805 -ft MD RKB

Cementing details

8-5/8" 24# J55 STC Surface Csg			
Density (ppg)	Lead	Tail	
Volume (sx)	12.3	12.8	
Yield (cf/sx)	192	114	
Top (ft RKB)	2.45	2.17	
Bottom (ft RKB)	Surface	1000	
Returns (full or partial)	1000	1546	
	Full	Full	
4-1/2" 11.6# I80 LTC Production Csg			
Density (ppg)	Lead	Tail	
Volume (sx)	12.8	13.3	
Yield (cf/sx)	885	413	
Est Top (ft RKB)	1.75	1.89	
Est Bottom (ft RKB)	1022	5593	
Returns (full or partial)	5593	7795	
	Full	Full	