

Piceance Energy, LLC  
Piceance Federal 28-03M  
Slot B-5  
Patterson 306 (22-ft KB)

API # : 05-077-10241-00  
SW/4 NW/4 S28/T9S/R93W/6th PM  
Mesa County, CO  
Date of diagram : 8/27/2015

Vertical datum ----- 7578' RKB Elevation

7556' Pad Elevation

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

8-5/8" Shoe 1582 -ft MD RKB  
11" Hole 1592 -ft MD RKB

Formation	Prognosis
'G' Sand	2995 -ft MD RKB
Williams Fork	4969 -ft MD RKB
Top of Gas	6196 -ft MD RKB
Cameo	7296 -ft MD RKB
Base Cameo Coal	7954 -ft MD RKB
Rollins	7996 -ft MD RKB

Top of 20'  
Marker Joint 6396 -ft MD RKB

Top of 20'  
Marker Joint 7267 -ft MD RKB  
4-1/2" Float Collar (PBTD) 8051 -ft MD RKB  
4-1/2" Float Shoe 8142 -ft MD RKB  
7-7/8" Hole TD 8152 -ft MD RKB

Cementing details

8-5/8" 24# J55 STC Surface Csg	Lead	Tail
Density (ppg)	12.3	12.8
Volume (sx)	192	120
Yield (cf/sx)	2.45	2.17
Top (ft RKB)	Surface	1000
Bottom (ft RKB)	1000	1582
Returns (full or partial)	Full	Full

4-1/2" 11.6# 180 LTC Production Csg	Lead	Tail	Displacement
Density (ppg)	12.8	13.3	8.3 ppg
Volume (sx)	950	413	115 bbls
Yield (cf/sx)	1.75	1.89	N/A
Est Top (ft RKB)	1022	5996	N/A
Est Bottom (ft RKB)	5996	8142	N/A
Returns (full or partial)	Full	Full	Full

Other Remarks : Surface = 25 bbls of cmt to surface full returns  
Production = 40 bbls spacer and 35 bbls cement to surface