

Piceance Energy, LLC  
Piceance 28-06M  
Slot A-7  
Patterson 306 (22-ft KB)

API # : 05-077-09779-00  
SW/4 NW/4 S28/T9S/R93W/6th PM  
Mesa County, CO  
Date of diagram : 8/15/2015

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 1567 -ft MD RKB  
11" Hole 1576.89 -ft MD RKB

Formation	Prognosis
'G' Sand	2929 -ft MD RKB
Williams Fork	4856 -ft MD RKB
Top of Gas	6080 -ft MD RKB
Cameo	7180 -ft MD RKB
Base Cameo Coal	7838 -ft MD RKB
Rollins	7880 -ft MD RKB

Top of 20'  
Marker Joint 6290 -ft MD RKB

Top of 20'  
Marker Joint 7163 -ft MD RKB

4-1/2" Float Collar (PBTD) 7946 -ft MD RKB  
4-1/2" Float Shoe 8036 -ft MD RKB  
7-7/8" Hole TD 8046 -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	1567
Returns (full or partial)	Full	Full

4-1/2" 11.6# I80 LTC Production Csg	Lead	Tail
Density (ppg)	12.8	13.3
Volume (sx)	1.75	1.89
Yield (cf/sx)	1022	5880
Est Top (ft RKB)	5880	8036
Est Bottom (ft RKB)	Full	Full
Returns (full or partial)		

Displacement
8.3 ppg
123 bbls
N/A
N/A
N/A
Full

Other Remarks : Surface = 15 bbls of cmt to surface full returns  
= 40 bbls spacer and 25 bbls cement to surface Production