

Piceance Energy, LLC
Piceance 28-04W
Slot B-2
Patterson 306 (22-ft KB)

API # : 05-077-09772-00
SW/4 NW/4 S28/T9S/R93W/6th PM
Mesa County, CO
Date of diagram : 9/25/2015

Vertical datum

----- 7578' RKB Elevation

----- 7556' Pad Elevation



Formation	Prognosis
'G' Sand	2849 -ft MD RKB
Williams Fork	4716 -ft MD RKB
Top of Gas	5924 -ft MD RKB
Cameo	7024 -ft MD RKB
Base Cameo Coal	7682 -ft MD RKB
Rollins	7724 -ft MD RKB

Top of 20'
Marker Joint 5923 -ft MD RKB

Top of 20'
Marker Joint 6992 -ft MD RKB

4-1/2" Float Collar (PBTB)
4-1/2" Float Shoe 7853 -ft MD RKB
7-7/8" Hole TD 7943 -ft MD RKB
7953 -ft MD RKB

Cementing details

8-5/8" 24# J55 STC Surface Csg	Lead	Tail
Density (ppg)	12.3	12.8
Volume (sx)	192	114
Yield (cf/sx)	2.45	2.17
Top (ft RKB)	Surface	1000
Bottom (ft RKB)	1000	1572
Returns (full or partial)	Full	Full

4-1/2" 11.6# 180 LTC Production Csg	Lead	Tail
Density (ppg)	12.8	13.3
Volume (sx)	910	413
Yield (cf/sx)	1.75	1.89
Est Top (ft RKB)	1022	5724
Est Bottom (ft RKB)	5724	7943
Returns (full or partial)	Full	Full

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

Other Remarks :	Production
Surface = 28 bbls of cmt to surface full returns = 0 bbls cement to surface 25 bbls of Spacer	