

Piceance Energy, LLC
Piceance 28-03W
Slot A-1
Patterson 306 (22-ft KB)

API # : 05-077-09771-00
SW/4 NW/4 S28/T9S/R93W/6th PM
Mesa County, CO
Date of diagram : 10/5/2015

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 1572 -ft MD RKB
11" Hole 1582 -ft MD RKB

Formation	Prognosis
'G' Sand	2871 -ft MD RKB
Williams Fork	4752 -ft MD RKB
Top of Gas	5966 -ft MD RKB
Cameo	7066 -ft MD RKB
Base Cameo Coal	7724 -ft MD RKB
Rollins	7766 -ft MD RKB

Top of 20'
Marker Joint 5952 -ft MD RKB

Top of 20'
Marker Joint 7086 -ft MD RKB

4-1/2" Float Collar (PBTD) 7926 -ft MD RKB
4-1/2" Float Shoe 8016 -ft MD RKB
7-7/8" Hole TD 8026 -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	Displacement
Density (ppg)	12.7	13.5	8.3 ppg
Volume (sx)	979	446	123 bbls
Yield (cf/sx)	1.64	1.75	N/A
Est Top (ft RKB)	1022	5766	N/A
Est Bottom (ft RKB)	5766	8016	N/A
Returns (full or partial)	Full	Full	Full

Other Remarks : Surface = 28 bbls of cmt to surface full returns
= 23 bbls cement to surface 40 bbls of Spacer Production