

Piceance Energy, LLC
Piceance 28-09W
Slot B-8
Patterson 306 (22-ft KB)

API #: 05-077-09777-00
SW/4 NW/4 S28/T9S/R93W/6th PM
Mesa County, CO
Date of diagram: 8/6/2015

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 1570 -ft MD RKB
11" Hole 1579.86 -ft MD RKB

Formation	Prognosis
'G' Sand	2796 -ft MD RKB
Williams Fork	4959 -ft MD RKB
Top of Gas	5865 -ft MD RKB
Cameo	6965 -ft MD RKB
Base Cameo Coal	7623 -ft MD RKB
Rollins	7665 -ft MD RKB

Top of 20'
Marker Joint 6041 -ft MD RKB

Top of 20'
Marker Joint 6919 -ft MD RKB

4-1/2" Float Collar (PBTD) 7754 -ft MD RKB
4-1/2" Float Shoe 7834 -ft MD RKB
7-7/8" Hole TD 7843.79 -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	1570
Returns (full or partial)	Full	Full

4-1/2" 11.6# I80 LTC Production Csg.	Lead	Tail	Displacement
Density (ppg)	12.8	13.3	8.3 ppg
Volume (sx)	900	413	bbls
Yield (cf/sx)	1.75	1.89	N/A
Est Top (ft RKB)	1022	5665	N/A
Est Bottom (ft RKB)	5665	7834	N/A
Returns (full or partial)	Full	Full	Full

Other Remarks: Surface = 21 bbls of cmt to surface full returns
= 40 bbls spacer and 5 bbls cement to surface Production