

Piceance Energy, LLC  
Piceance Federal 28-07E  
Slot A-3  
Patterson 306 (22-ft KB)

API # : 05-077-10261-00  
NE/4 SW/4 S28/T9S/R93W/6th PM  
Mesa County, CO

Date of diagram :

Vertical datum ----- 7701' RKB Elevation



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

8-5/8" Shoe 1628 -ft MD RKB  
11" Hole 1638 -ft MD RKB

----- 7679' Pad Elevation

Formation	Prognosis
'G' Sand	3281 -ft MD RKB
Williams Fork	5371 -ft MD RKB
Top of Gas	6622 -ft MD RKB
Cameo	7722 -ft MD RKB
Base Cameo Coal	8380 -ft MD RKB
Rollins	8422 -ft MD RKB

Top of 20'  
Marker Joint 6635 -ft MD RKB

Top of 20'  
Marker Joint 7721 -ft MD RKB

4-1/2" Float Collar (PBSD)  
4-1/2" Float Shoe 8549 -ft MD RKB  
7-7/8" Hole TD 8636 -ft MD RKB  
8646 -ft MD RKB

**Cementing details**

8-5/8" 24# J55 STC Surface Csg		Lead	Tail
Density (ppg)	12.3	12.8	12.8
Volume (sx)	192	127	127
Yield (cf/sx)	2.45	2.17	2.17
Top (ft RKB)	Surface	1000	1000
Bottom (ft RKB)	1000	1628	1628
Returns (full or partial)	Full	Full	Full

4-1/2" 11.6# I80 LTC Production Csg		Lead	Tail	Displacement
Density (ppg)	12.7	12.7	13.5	8.3 ppg
Volume (sx)	1109	1109	446	bbls
Yield (cf/sx)	1.64	1.64	1.75	N/A
Est Top (ft RKB)	1022	1022	6422	N/A
Est Bottom (ft RKB)	6422	6422	8636	N/A
Returns (full or partial)	Full	Full	Full	Full

Other Remarks : Surface = 35 bbls cmt to surface Full returns  
Production = 40 bbls spacer & 30 bbls of cmt to Surface full returns