

Piceance Energy, LLC  
Gunderson 29-08M  
Slot A-4  
Patterson 306 (22-ft KB)

API # : 05-077-09761-00  
SE/4 NE/4 S29/T9S/R93W/6th PM  
Mesa County, CO  
Date of diagram : 6/6/2015

Vertical datum

----- 7553' RKB Elevation

----- 7531' Pad Elevation

16" OD Conductor  
(in 26" hole, grouted to ground level)

8-5/8" Shoe  
11" Hole  
1555 -ft MD RKB  
1564.72 -ft MD RKB

Formation	Prognosis
'G' Sand	2792 -ft MD RKB
Williams Fork	4734 -ft MD RKB
Top of Gas	5963 -ft MD RKB
Cameo	7063 -ft MD RKB
Base Cameo Coal	7721 -ft MD RKB
Rollins	7763 -ft MD RKB

Top of 20'  
Marker Joint  
6059 -ft MD RKB

Top of 20'  
Marker Joint  
6962 -ft MD RKB

4-1/2" Float Collar (PBTD)  
4-1/2" Float Shoe  
7-7/8" Hole TD  
7819 -ft MD RKB  
7908 -ft MD RKB  
7918.31 -ft MD RKB

Cementing details

8-5/8" 24# J55 STC Surface Csg

Lead	Tail
Density (ppg)	12.8
Volume (sx)	192
Yield (cf/sx)	114
Top (ft RKB)	2.17
Bottom (ft RKB)	1000
Returns (full or partial)	1555
	Full

4-1/2" 11.6# I80 LTC Production Csg

Lead	Tail	Displacement
Density (ppg)	12.8	8.3 ppg
Volume (sx)	920	bbls
Yield (cf/sx)	1.75	N/A
Est Top (ft RKB)	1022	N/A
Est Bottom (ft RKB)	5763	N/A
Returns (full or partial)	7908	Full
	Full	

Other Remarks :

26 bbls cement back on surface.  
bbls spacer to surface on production