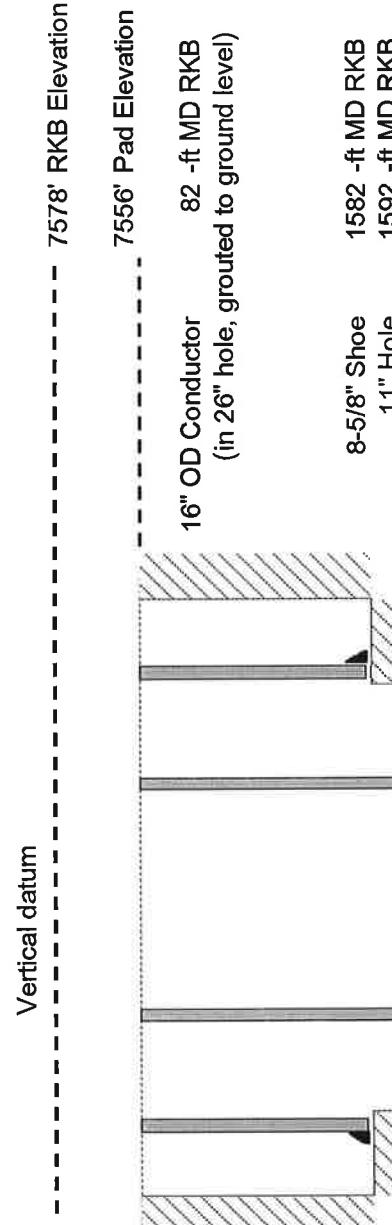


Piceance Energy, LLC
 Piceance Federal 28-03M
 Slot B-5
 Patterson 306 (22-ft KB)

API# : 05-077-10241-00
 SW/4 NW/4 S28/T9S/R93W/6th PM
 Mesa County, CO
 Date of diagram : 8/27/2015



Formation	Prognosis
'G' Sand	2995 -ft MD RKB
Williams Fork	4969 -ft MD RKB
Top of Gas	6196 -ft MD RKB
Cameo	7296 -ft MD RKB
Base Cameo Coal	7954 -ft MD RKB
Rollins	7996 -ft MD RKB

Top of 20'
 Marker Joint

6396 -ft MD RKB

Top of 20'
 Marker Joint

7267 -ft MD RKB

4-1/2" Float Collar (PBTID)
 4-1/2" Float Shoe
 7-7/8" Hole TD

Cementing details

8-5/8" 24# J55 STC Surface Csg.	Lead	Tail	Displacement
Density (ppg)	12.3	12.8	8.3 ppg
Volume (sx)	192	120	115 bbls
Yield (cf/sx)	2.45	2.17	N/A
Top (ft RKB)	Surface	1000	N/A
Bottom (ft RKB)	1000	1582	N/A
Returns (full or partial)	Full	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)	950	413	115 bbls
Yield (cf/sx)	1.75	1.89	N/A
Est Top (ft RKB)	1022	5996	N/A
Est Bottom (ft RKB)	5996	8142	Full
Returns (full or partial)	Full	Full	Full

Other Remarks : Surface = 25 bbls of cement to surface full returns
 Production = 40 bbls spacer and 35 bbls cement to surface