

Piceance Energy, LLC
Piceance Federal 28-02M
Slot A-5
Patterson 306 (22-ft KB)

API # : 05-077-10239-00
S/W/4 NW/4 S28/T9S/R93W/6th PM
Mesa County, CO
Date of diagram : 9/1/2015

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 1616 -ft MD RKB
11" Hole 1626 -ft MD RKB

| Formation | Prognosis |
|-----------------|-----------------|
| 'G' Sand | 3022 -ft MD RKB |
| Williams Fork | 5014 -ft MD RKB |
| Top of Gas | 6242 -ft MD RKB |
| Cameo | 7342 -ft MD RKB |
| Base Cameo Coal | 8000 -ft MD RKB |
| Rollins | 8042 -ft MD RKB |

Top of 20'
Marker Joint 6278 -ft MD RKB

Top of 20'
Marker Joint 7381 -ft MD RKB

4-1/2" Float Collar (PBTD) 8173 -ft MD RKB
4-1/2" Float Shoe 8256 -ft MD RKB
7-7/8" Hole TD 8266 -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 | 1616 |
| Returns (full or partial) | Full | Full |

| 4-1/2" 11.6# 180 LTC Production Csg | Lead | Tail |
|-------------------------------------|------|------|
| Density (ppg) | 12.8 | 13.3 |
| Volume (sx) | 964 | 413 |
| Yield (cf/sx) | 1.75 | 1.89 |
| Est Top (ft RKB) | 1022 | 6042 |
| Est Bottom (ft RKB) | 6042 | 8256 |
| Returns (full or partial) | Full | Full |

| Displacement |
|--------------|
| 8.3 ppg |
| 127 bbls |
| N/A |
| N/A |
| N/A |
| Full |

Other Remarks :

Surface = 18 bbls of cmt to surface full returns
Production = 40 bbls spacer and 27 bbls cement to surface