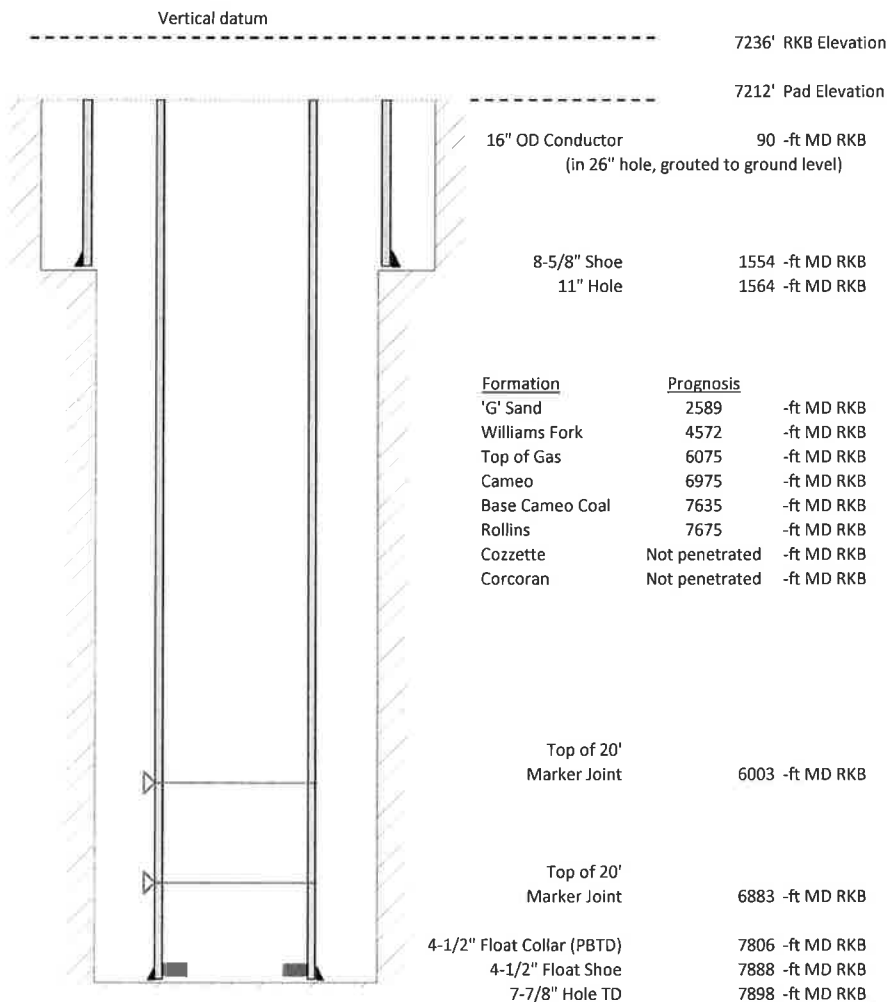


Laramie Energy, LLC
Nichols Federal 0994-24-17E
Slot A-7
H&P 290 (24-ft KB)

API # : 05-077-10394-00
 SENW S24 T9S R94W 6th PM
 Mesa County, CO
 Date of diagram : 4/20/2018



Cementing details

8-5/8" 28# Surface Csg	Lead	Tail
Density (ppg)	12	12.5
Volume (sx)	170	107
Yield (cf/sx)	2.52	2.22
Top (ft RKB)	24	1030
Bottom (ft RKB)	1030	1554
Returns (full or partial)	Full	Full

4-1/2" 11.6# Prod Csg	Lead	Tail
Density (ppg)	12.7	13.5
Volume (sx)	898	392
Yield (cf/sx)	1.97	1.9
Est Top (ft RKB)	1030	5875
Est Bottom (ft RKB)	5875	7888
Returns (full or partial)	Full	Full

Displacement
8.3 ppg
120 bbls

Other Remarks : Surface- 25 bbls cement to surface Production- 80
 bbls cement to surface