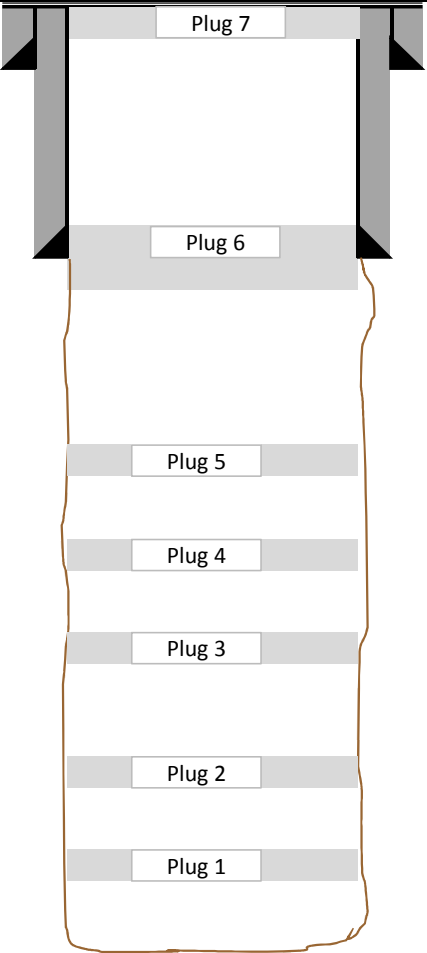




P&A Wellbore Diagram

Well Name	Hamill 19-16D	API	05-081-07820-00	Well Type: S Type Directional							
SHL	SESE S19 T5N R909W	GLE	6446 ft AMSL	TD (MD/TVD): 6980 / 6958							
BHL	NENE S30 T5N R90W	RKB	6468 ft AMSL	Spud Date: 10/18/2015							
State / County	Moffat, Colorado	*Not to Scale*		Plug Date: 10/28/2015							
Formation	TVD (ft)	MD (ft)		Hole Section	Drilling Fluid	Casing	Cement				
Mancos	0	0		30" Hole from 0' to 80'	None	20" 0.25" WT	200 sx of cmt				
				12.25" hole from 80' to 810'	FW/Gel 8.5 ppg	9.625" 36# J-55 STC	Lead: 149 sx 12.5 ppg Class G Tail: 104 sx 14.5 ppg. Topped out with 45 sx cmt.				
Base of Morapos Crk	530	530		7.875" hole from 810' to 6980' MD / 6958' TVD	Amine inhibited (Fresh Water) Mud 8.5 to 9.0 ppg	No pipe run. Set 100' of 15.8 ppg plugs at: (Plug 1) 5956' - 5856', (Plug 2) 5438' - 5338', (Plug 3) 4768' - 4668', (Plug 4) 4288' - 4188', (Plug 5) 3154' - 3054', (Plug 6) 895' - 735' [Shoe], (Plug 7) 50' at the surface.	Plug cement (for 100'): 15.8 ppg - 1.15 cuft/sk - 45 sx per plug in open hole.				
Surface Casing	810	810									
Buck Peak	2819	2832									
Tow Creek	3138	3154									
Wolf Mountain	3382	3400									
Carlile	4081	4102									
Frontier	4267	4288									
Mowry	4695	4716									
Muddy	4747	4768									
Dakota	4789	4810									
Lakota	4857	4878									
Morrison	4911	4932									
Entrada	5417	5438									
Chinle	5559	5580									
Shinarump	5935	5956									
Moenkopi	6105	6126									
Permian	6520	6542									
Minturn	6778	6800									
TD	6958	6980									