

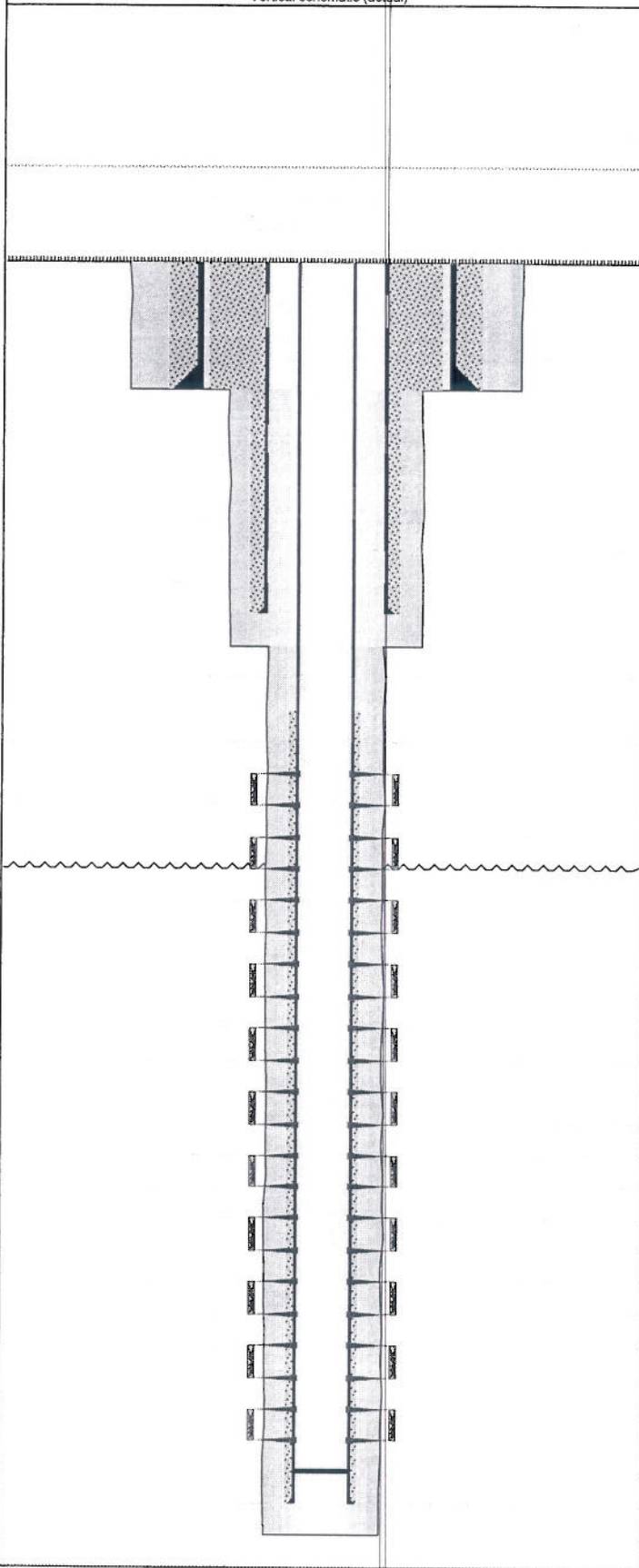
Final Well Report Detailed (graphic)

Well Name: SG 8509D-21 N22 496

API # 05045210440000	Well Type Gas	Business Unit Southern Rockies	SBU North Piceance	Area Story Gulch	Pad N22 496	State CO	County/Parish GARFIELD
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Directional - Original Hole - Initial Migration, 04/22/2013 11:07:51 AM

Vertical schematic (actual)



Stg # 1	Description Surface	Top (ft)(B) 22.0	Btm (ft)(B) 2,129.0	Full Return?
Sequence		Fluid Des	Amount (sacks)	Class
Lead		11# LiteFIL	471	
Tail		12.0# LiteFIL	246	

Production, 11,785.0ftKB Proposed? No

Description	String	Wellbore	Type
Production Casing Cement	Production, 11,785.0ftKB Proposed? No	Original Hole - Initial Migration	Casing

Stg #	Description	Top (ftKB)	Btm (ftKB)	Full Return?	
1	Production	4,418.0	11,785.0		
Sequence		Fluid Des		Amount (sacks)	Class
Lead	12ppg TXI LS		578		
Tail	13ppg Rockies Correct GMS Enc		481		
Fill	11ppg TXI		905		

Tubing Data

Tubing Description	Tubing Set Date	Set Depth (ftKB)
Item Des	OD (in)	ID (in)
		Len (ft)

Rod Data

Rod Description	Run Date	Set Depth (ftKB)
Item Des	OD (in)	Len (ft)

Zones

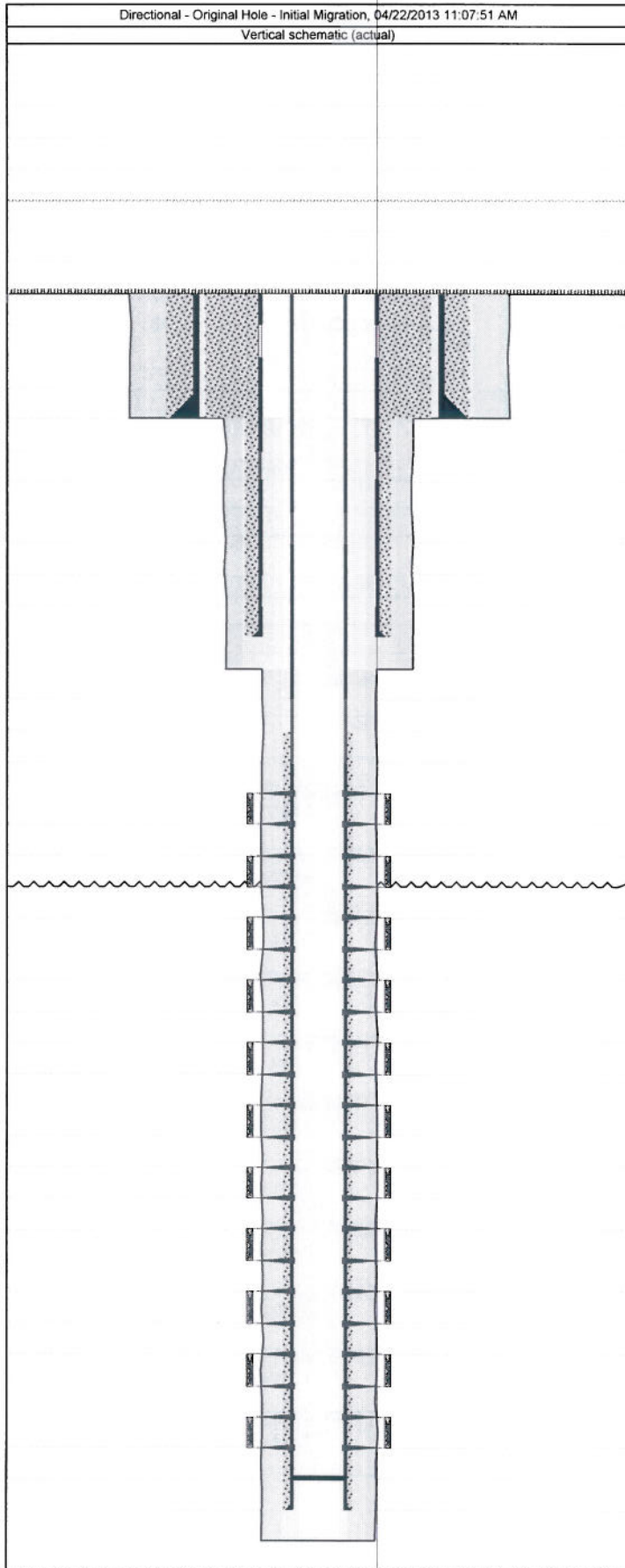
Zone Name	Wellbore	Top Depth (ftKB)	Btm (ftKB)
Original Migration	Original Hole - Initial Migration		
Cur Stat Date	Current Status	Formation(s)	

Perforation Data

Stage #	Type	Top Depth (ftKB)	Bottom Depth (ftKB)	Zone
11	Perforated	7,901.0	8,095.0	Original Migration, Original Hole - Initial Migration
10	Perforated	8,119.0	8,403.0	Original Migration, Original Hole - Initial Migration
9	Perforated	8,479.0	8,725.0	Original Migration, Original Hole - Initial Migration
8	Perforated	8,767.0	9,078.0	Original Migration, Original Hole - Initial Migration
7	Perforated	9,121.0	9,484.0	Original Migration, Original Hole - Initial Migration
6	Perforated	9,504.0	9,777.0	Original Migration, Original Hole - Initial Migration
5	Perforated	9,895.0	10,170.0	Original Migration, Original Hole - Initial Migration
4	Perforated	10,185.0	10,451.0	Original Migration, Original Hole - Initial Migration
3	Perforated	10,479.0	10,776.0	Original Migration, Original Hole - Initial Migration
2	Perforated	10,812.0	11,111.0	Original Migration, Original Hole - Initial Migration
1	Perforated	11,241.0	11,486.0	Original Migration, Original Hole - Initial Migration

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Well Header Setup					
Well Name SG 8509D-21 N22 496			API # 05045210440000		
Original KB Elevation (ft) 7,607.00		Ground Elevation (ft) 7,585.00		Spud Date 03/06/2012	Final Rig Relea... 05/07/2012
Surface Legal Location			Latitude (decimal) (°) 39.68388100		Longitude (decimal) (°) -108.15720200
Wellbore Sections Setup					
Wellbore Type Original Hole - Initial Migration			Kick Off Depth (ftKB) 280.11		VS Dir (°) 280.11
Section Des		Hole Size (in)		Act Top (ftKB)	Act Btm (ftKB)
Conductor		30		22.0	120.0
Surface		14 3/4		120.0	2,147.0
Production		8 3/4		2,147.0	11,805.0
Plug Back Total Depths					
Date	Depth (ftKB)	Method		Com	
09/25/2012	11,762.0			Wellcore PBDT (TVD): 10973.000016679	
Casing Data					
Conductor					
Casing Description Conductor			Run Date 01/09/2012		Set Depth (ftKB) 120.0
Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)
Casing Joints	20		52.78	A53B	120.00
Surface					
Casing Description Surface			Run Date 03/07/2012		Set Depth (ftKB) 2,129.0
Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)
Float Shoe	9 5/8			J-55	1.50
Casing Joints	9 5/8	8.921	36.00	J-55	42.83
Float Collar	9 5/8			J-55	1.50
Casing Joints	9 5/8	8.921	36.00	J-55	44.01
Casing Joints	9 5/8	8.921	36.00	J-55	84.29
Collar	9 5/8				1.50
Casing Joints	9 5/8	8.921	36.00	K-55	1,925.36
Casing Joints	9 5/8				4.80
Casing Joints	9 5/8	8.921	36.00	J-55	28.00
Production					
Casing Description Production			Run Date 05/06/2012		Set Depth (ftKB) 11,785.0
Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)
Float Shoe	4 1/2			P-110	1.50
Shoe	4 1/2	4.000	11.60	P-110	20.13
Float Collar	4 1/2			P-110	1.50
Casing Joints	4 1/2	4.000	11.60	P-110	1,446.47
Marker Joint	4 1/2	4.000	11.60	P-110	20.82
Casing Joints	4 1/2	4.000	11.60	P-110	2,924.89
Marker Joint	4 1/2	4.000	11.60	P-110	20.61
Casing Joints	4 1/2	4.000	11.60	P-110	7,353.08
Cement Data					
Conductor, 120.0ftKB Proposed? No					
Description Conductor Cement		String Conductor, 120.0ftKB Proposed? No		Wellbore Original Hole - Initial Migration	
Type Casing					
Stg # 1	Description Conductor			Top (ftKB) 22.0	Btm (ftKB) 120.0
Full Return?					
Sequence		Fluid Des		Amount (sacks)	Class
Lead		19 yds - Redi Mix		133	
Surface, 2,129.0ftKB Proposed? No					
Description Surface Casing Cement		String Surface, 2,129.0ftKB Proposed? No		Wellbore Original Hole - Initial Migration	
Type Casing					