

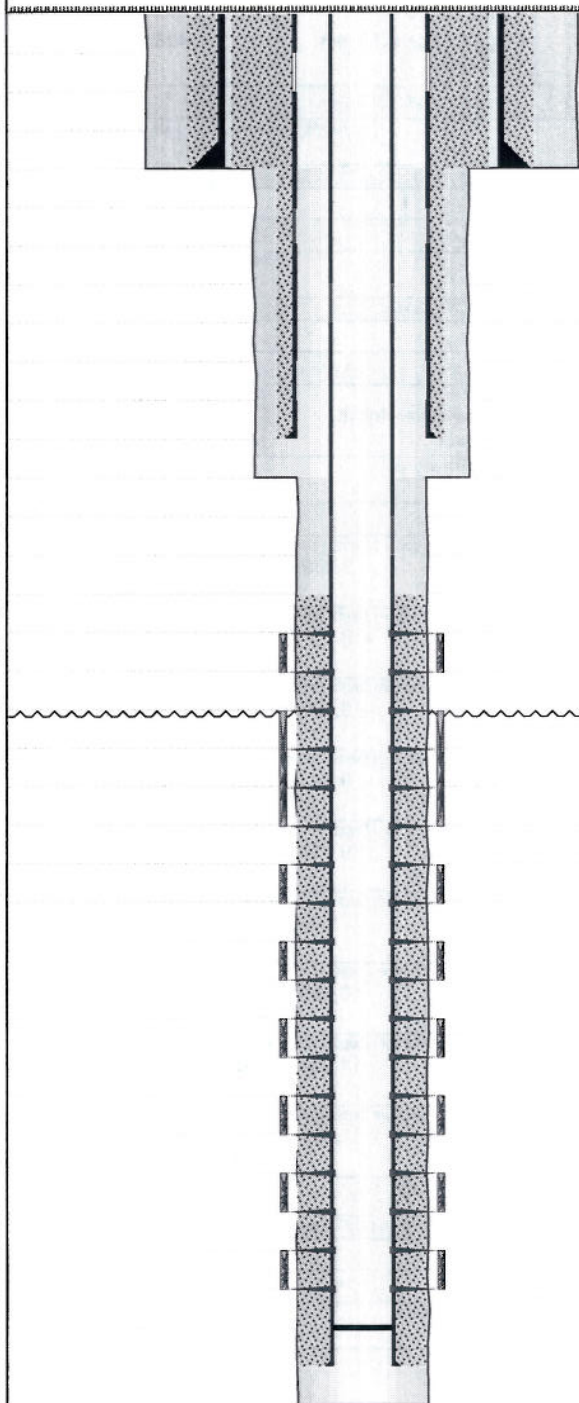
# Final Well Report Detailed (graphic)

Well Name: SG 8509F-21 N22 496

API # 05045210370000	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, 04/02/2013 12:18:58 PM

Vertical schematic (actual)



## Well Header Setup

Well Name SG 8509F-21 N22 496		API # 05045210370000	
Original KB Elevation (ft) 7,607.00	Ground Elevation (ft) 7,585.00	Spud Date 04/15/2012	Final Rig Relea.. 06/05/2012
Surface Legal Location		Latitude (decimal) (*) 39.68381200	Longitude (decimal) (*) -108.15724100

## Wellbore Sections Setup

Wellbore Type		Kick Off Depth (ftKB)	VS Dir ("
Original Hole - Initial Migration			273.47
Section Des	Hole Size (in)	Act Top (ftKB)	Act Btm (ftKB)
Conductor	30	22.0	120.0
Surface	14 3/4	120.0	2,160.0
Production	8 3/4	2,160.0	11,822.0

## Plug Back Total Depths

Date 09/25/2012	Depth (ftKB) 11,779.0	Method	Com Wellcore PBDT (TVD): 10994.0000167109
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## Casing Data

Casing Description Conductor	Run Date 02/02/2012	Set Depth (ftKB) 120.0
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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 04/16/2012	Set Depth (ftKB) 2,140.0
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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	43.92
Float Collar	9 5/8			J-55	1.50
Casing Joints	9 5/8	8.921	36.00	J-55	44.04
Casing Joints	9 5/8	8.921	36.00	J-55	87.80
Collar	9 5/8				1.50
Casing Joints	9 5/8	8.921	36.00	K-55	1,931.39
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 06/03/2012	Set Depth (ftKB) 11,802.0
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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	20.42
Float Collar	4 1/2			P-110	1.50
Casing Joints	4 1/2	4.000	11.60	P-110	1,448.00
Marker Joint	4 1/2	4.000	11.60	P-110	20.39
Casing Joints	4 1/2	4.000	11.60	P-110	2,481.79
Marker Joint	4 1/2	4.000	11.60	P-110	21.00
Casing Joints	4 1/2	4.000	11.60	P-110	7,811.57

## Cement Data

### Conductor, 120.0ftKB Proposed? No

Description	String	Wellbore	Type
Conductor Cement	Conductor, 120.0ftKB Proposed? No	Original Hole - Initial Migration	Casing

Stg #	Description	Top (ftKB)	Btm (ftKB)	Full Return?
1	Conductor	22.0	120.0	Yes

Sequence	Fluid Des	Amount (sacks)	Class
Lead	Redi Mix - 19 yards	133	

### Surface, 2,140.0ftKB Proposed? No

Description	String	Wellbore	Type
Surface Casing Cement	Surface, 2,140.0ftKB Proposed? No	Original Hole - Initial Migration	Casing

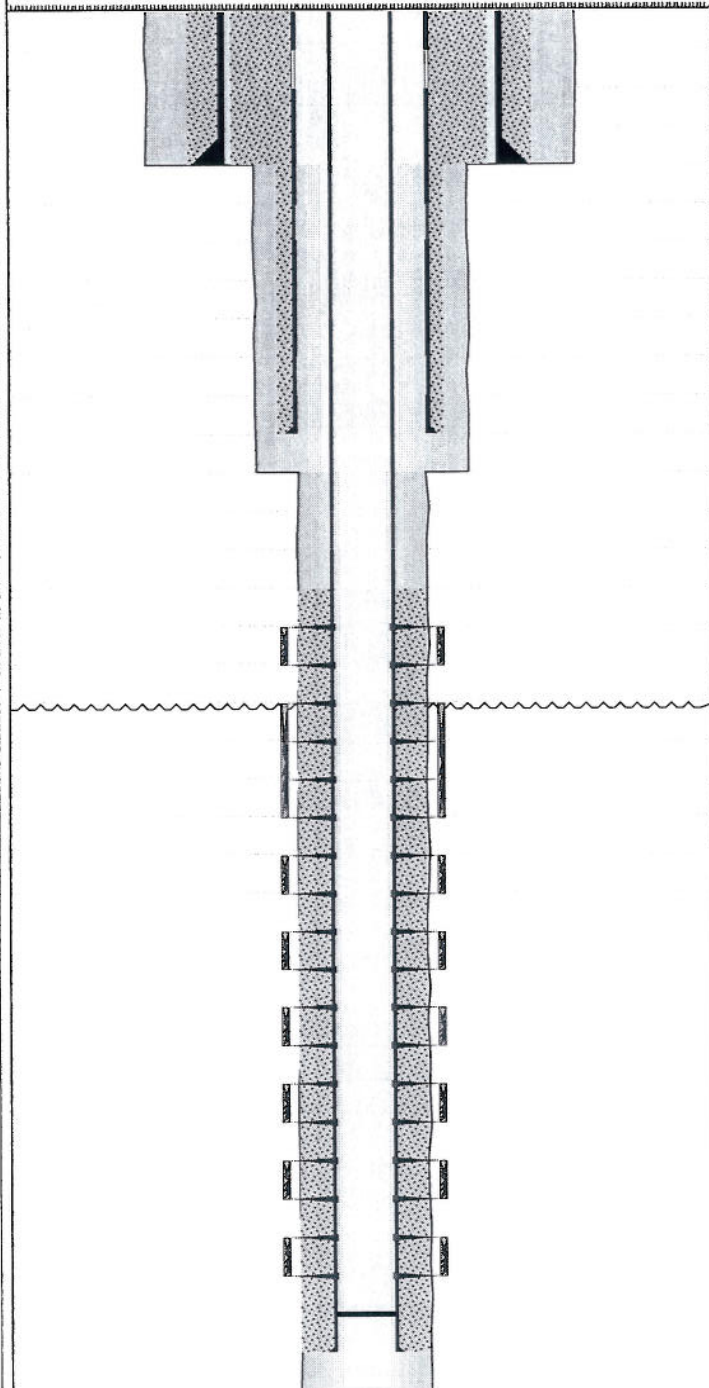
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Directional - Original Hole - Initial Migration, 04/02/2013 12:18:56 PM

Vertical schematic (actual)



Stg #	Description	Top (ftKB)	Btm (ftKB)	Full Return?
1	Surface	22.0	2,140.0	
Sequence	Fluid Des	Amount (sacks)	Class	
Lead	11# LiteFIL	471		
Tail	12.5# LiteFIL	246		

## Production, 11,802.0ftKB Proposed? No

Description	String	Wellbore	Type
Production Casing Cement	Production, 11,802.0ftKB Proposed? No	Original Hole - Initial Migration	Casing

Stg #	Description	Top (ftKB)	Btm (ftKB)	Full Return?
1	Production	4,214.0	11,802.0	
Sequence	Fluid Des	Amount (sacks)	Class	
Fill	11ppg TXI	793		
Lead	12ppg TXI LS	832		
Tail	13ppg Rockies Correct GMS Enc	408		

## 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
9	Perforated	7,884.0	8,289.0	Original Migration, Original Hole - Initial Migration
8	Perforated	8,337.0	8,750.0	Original Migration, Original Hole - Initial Migration
7	Perforated	8,782.0	9,160.0	Original Migration, Original Hole - Initial Migration
6	Perforated	9,292.0	9,592.0	Original Migration, Original Hole - Initial Migration
5	Perforated	9,649.0	9,958.0	Original Migration, Original Hole - Initial Migration
4	Perforated	9,999.0	10,298.0	Original Migration, Original Hole - Initial Migration
3	Perforated	10,351.0	10,669.0	Original Migration, Original Hole - Initial Migration
2	Perforated	10,712.0	11,084.0	Original Migration, Original Hole - Initial Migration
1	Perforated	11,122.0	11,497.0	Original Migration, Original Hole - Initial Migration

## Other In Hole

OD (in)	Des	Top (ftKB)	Btm (ftKB)	ID (in)	Make	Model

## Wellhead Description

Install Date	Type	Make	Size (in)	WP (psi)