

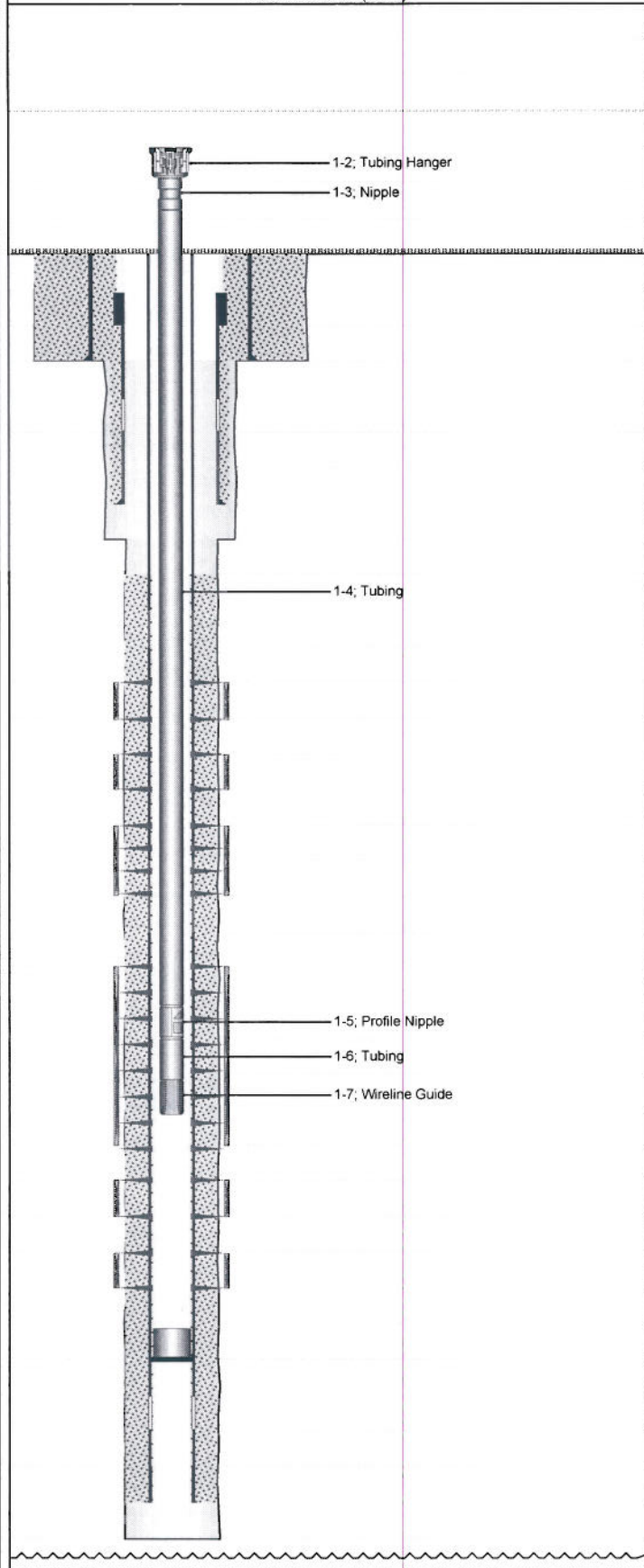
# Final Well Report Detailed (graphic)

Well Name: Benzel Federal 24-14DD (F25NWB)

API # 05045208770000	Well Type Gas	Business Unit Southern Rockies	SBU South Piceance	Area Mamm Creek	Pad F25NWB	State CO	County/Parish GARFIELD
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Original Hole - Initial Migration, 03/25/2013 9:30:58 AM

Vertical schematic (actual)



## Well Header Setup

Well Name Benzel Federal 24-14DD (F25NWB)		API # 05045208770000	
Original KB Elevation (ft) 8,107.00	Ground Elevation (ft)	Spud Date 11/01/2012	Final Rig Relea. 12/29/2012
Surface Legal Location		Latitude (decimal) (*)	Longitude (decimal) (*)

## Wellbore Sections Setup

Wellbore Type	Kick Off Depth (ftKB)	VS Dir (°)	
Original Hole - Initial Migration	177.0	27.89	
Section Des	Hole Size (in)	Act Top (ftKB)	Act Btm (ftKB)
Conductor	26	22.0	82.0
Surface	12 1/4	82.0	1,546.0
Production	8 3/4	1,546.0	8,168.0

## Plug Back Total Depths

Date	Depth (ftKB)	Method	Com
03/23/2013	8,050.0	Tubing	

## Casing Data

### Conductor

Casing Description Conductor			Run Date 10/16/2012		Set Depth (ftKB) 82.0	
Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	
Casing Joints	16	15.124	75.00	K-55	40.00	
Casing Joints	16	15.124	75.00	A52A	60.00	

### Surface

Casing Description			Run Date		Set Depth (ftKB)	
Surface			11/01/2012		1,525.0	
Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	
Casing head	11	8.921	36.00	J55	5.50	
Casing Joints	9 5/8	8.921	36.00	J-55	1,446.51	
Float Collar	9 5/8	8.921	36.00	J55	1.50	
Shoe joint	9 5/8	8.921	36.00	J55	43.92	
Guide shoe	9 5/8	8.921	36.00	J55	1.50	

## Production

Casing Description			Run Date	Set Depth (ftKB)	
Production			12/27/2012	8,107.0	
Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)
Casing Joints	4 1/2	4.000	11.60	S-80	5,751.44
Marker Joint	4 1/2	4.000	11.60	S-80	41.03
Casing Joints	4 1/2	4.000	11.60	S-80	1,010.88
Marker Joint	4 1/2	4.000	11.60	S-80	41.38
Casing Joints	4 1/2	4.000	11.60	S-80	1,218.01
Float Collar	4 1/2				1.50
Shoe Joint	4 1/2	4.000	11.60	S-80	41.30
Float Shoe	4 1/2				1.50

## Cement Data

### Conductor, 82.0ftKB Proposed? <proposedrun>

Description Conductor Cement		String Conductor, 82.0ftKB Proposed? <proposedrun>	Wellbore Original Hole - Initial Migration	Type Casing	
Stg # 1	Description Conductor Cement	Top (ftKB) 22.0	Btm (ftKB) 82.0	Full Return?	
Sequence		Fluid Des	Amount (sacks)	Class	

### Surface, 1,525.0ftKB Proposed? <proposedrun>

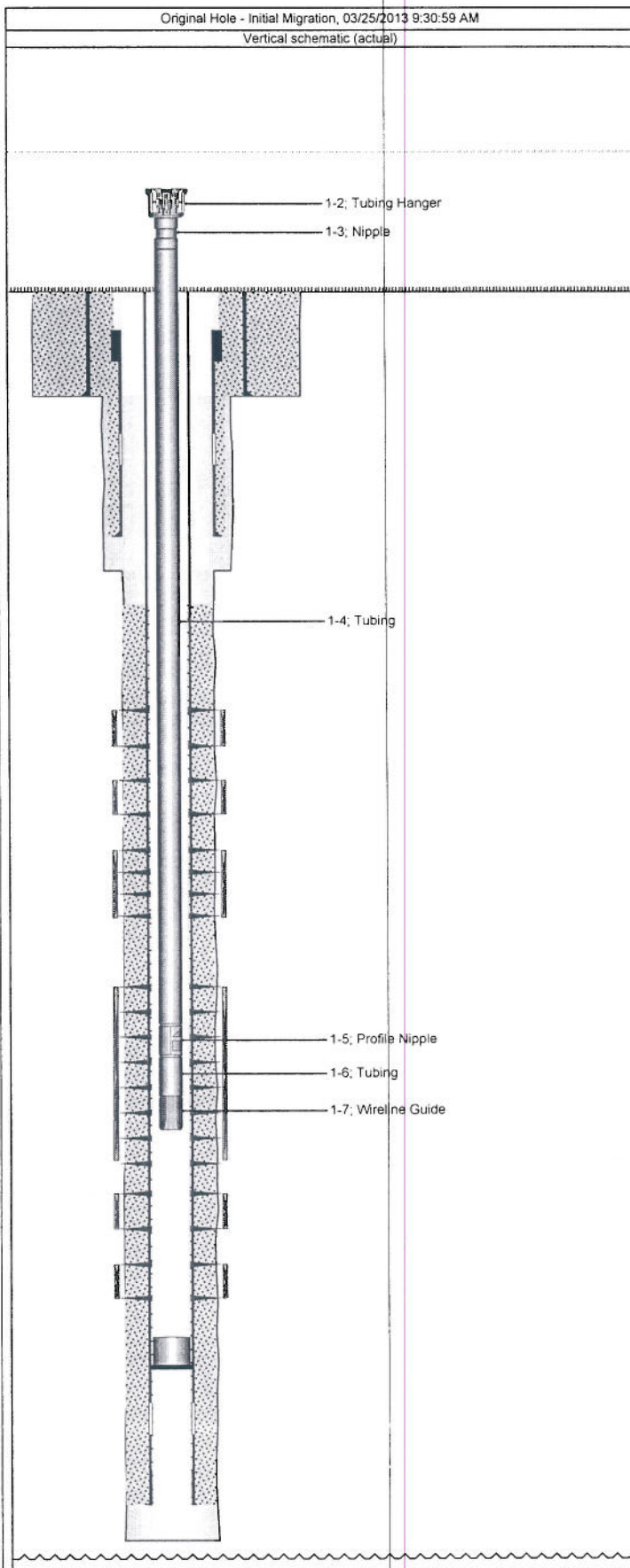
Description		String	Wellbore		Type
Surface Casing Cement		Surface, 1,525.0ftKB Proposed? <proposedrun>	Original Hole - Initial Migration		Casing
Stg #	Description	Top (ftKB)	Btm (ftKB)	Full Return?	
1	Surface Casing Cement	22.0	1,525.0	Yes	



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Sequence	Fluid Des	Amount (sacks)	Class
Preflush	water	0	
Lead	12.5 class G	391	
Tail	15.8 G Tail	149	
Displacement	water 8.34	0	

## Production, 8,107.0ftKB Proposed? <proposedrun>

Description	String	Wellbore	Type
Production Casing Cement	Production, 8,107.0ftKB Proposed? <proposedrun>	Original Hole - Initial Migration	Casing

Stg #	Description	Top (ftKB)	Btm (ftKB)	Full Return?
1	Production Casing Cement	1,767.0	8,107.0	Yes

Sequence	Fluid Des	Amount (sacks)	Class
Spacer	Mud Push II		
Tail		882	G
Displacement			

## Tubing Data

Tubing Description	Tubing Set Date	Set Depth (ftKB)
Tubing - Production	03/23/2013	7,104.4

Item Des	OD (in)	ID (in)	Len (ft)
Depth Correction	0.0	0.000	20.00
Tubing Hanger	4 1/16	1.940	0.82
Nipple	2 3/8	1.995	0.67
Tubing	2 3/8	1.995	7,050.69
Profile Nipple	2 3/8	1.810	0.97
Tubing	2 3/8	1.995	30.30
Wireline Guide	2 3/8	1.995	0.92

## 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
6	Perforated	6,024.0	6,257.0	Original Migration, Original Hole - Initial Migration
5	Perforated	6,292.0	6,533.0	Original Migration, Original Hole - Initial Migration
4	Perforated	6,564.0	6,823.0	Original Migration, Original Hole - Initial Migration
3	Perforated	6,852.0	7,105.0	Original Migration, Original Hole - Initial Migration
2	Perforated	7,158.0	7,437.0	Original Migration, Original Hole - Initial Migration
1	Perforated	7,546.0	7,801.0	Original Migration, Original Hole - Initial Migration

## Other In Hole

OD (in)	Des	Top (ftKB)	Btm (ftKB)	ID (in)	Make	Model
3 3/4	POBS & 3-3/4" Fang mill	8,049.0	8,050.0	0.000		

## Wellhead Description

Install Date	Type	Make	Size (in)	WP (psi)	
03/25/2013	4-1/16" 10k	GE Oil & Gas	4.063	10,000.	
Make	Model	Section	Top Sz (in)	Btm Sz (in)	WP (psi)