



# Schematic - Current

## Well Name: BILLINGS 3D-18H L368

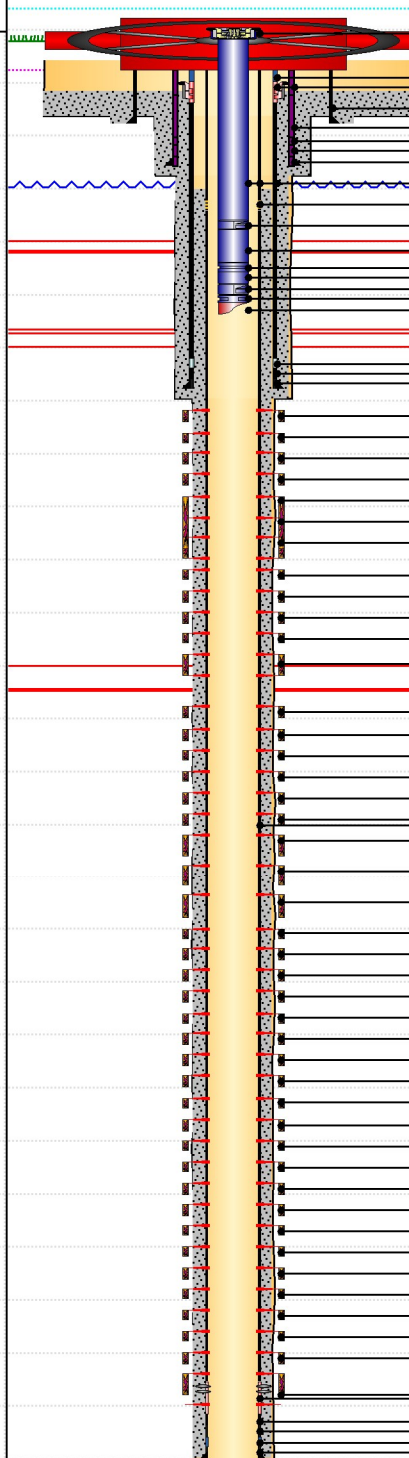
API # 05123368900000	Well Type Gas	Operating Region Western Ops	Division DJ Basin	Area Wattenberg	Pad Billings 18H -L368	County/Parish Weld	State CO	Field Name Wattenberg	
Operator		Well Status	Orig KB El...	Gr Elev (ft)	KB-Grd (ft)	Total Depth (All) (ftKB)		Total Depth (TVD) (ftKB)	PBTD (All) (ftKB)

### Most Recent Job

Job Category Drilling	Primary Job Type New Drill	Secondary Job Type D&C	Start Date 10/10/2014	End Date 11/20/2014
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TD: 14,175.0

Directional Horizontal Well - Original Hole, 04/20/2015 12:03:06 PM

MD (ftKB)	TVD (ftKB)	Incl (°)	DLS	Vertical schematic (actual)	
			DLS (°/...		
29.2	29.2	0.2			
34.4	34.4	0.3		1-2; Tubing Hanger; 4 1/16; 1.960; 29.1-29.9; 0.85	
828.7	824.9	9.7		3-1; Landing JT; 7; 6.276; 34.0-34.6; 37.00	
5,642.1	5,576.9	9.9		2-2; pup jt; 9 5/8; 8.921; 34.0-38.2; 7.50	
6,883.9	6,779.0	36.5		3-2; Hanger; 7; 6.276; 34.6-38.6; 4.00	
7,277.6	7,043.0	58.6		1-1; Casing Joints; 16; 15.250; 32.0-156.0; 126.00	
7,517.1	7,144.1	72.4		2-3; Casing Joints; 9 5/8; 8.921; 38.2-828.9; 790.68	
7,660.1	7,170.0	86.3		2-4; Float Collar; 9 5/8; 8.921; 828.9-830.4; 1.50	
7,961.9	7,170.1	91.0		2-5; Casing Joints; 9 5/8; 8.921; 830.4-873.5; 43.10	
8,362.9	7,164.2	90.4		2-6; Float Shoe; 9 5/8; 8.921; 873.5-875.0; 1.50	
8,669.0	7,170.3	88.0		4-1; Casing Joints; 4 1/2; 3.920; 34.0-6,560.2; 6,563.17	
9,019.0	7,174.5	88.1		1-3; Tubing; 2 3/8; 1.995; 29.9-6,723.6; 6,693.73	
9,374.0	7,181.2	89.5		3-3; Casing Joints; 7; 6.276; 38.6-7,550.1; 7,511.52	
9,574.1	7,185.6	88.0		4-2; Marker Joint; 4 1/2; 3.920; 6,560.2-6,578.4; 18.12	
9,923.9	7,197.2	87.7		1-4; X-Nipple; 2 3/8; 1.875; 6,723.6-6,724.6; 0.93	
10,328.1	7,205.5	91.0		1-5; Tubing; 2 3/8; 1.995; 6,724.6-7,243.4; 518.89	
10,524.9	7,204.0	90.1		1-6; Saver Sub; 2 3/8; 1.991; 7,243.4-7,244.5; 1.10	
10,829.1	7,206.1	89.3		1-7; Tubing; 2 3/8; 1.995; 7,244.5-7,276.6; 32.10	
11,233.9	7,214.6	88.5		1-8; XN-Nipple; 2 3/8; 1.811; 7,276.6-7,277.7; 1.05	
11,584.0	7,227.5	87.8		1-9; Burst disk; 2 3/8; 1.810; 7,277.7-7,278.5; 0.80	
11,987.9	7,244.0	86.2		1-10; Mule Shoe; 2 3/8; 1.991; 7,278.5-7,278.9; 0.40	
12,337.9	7,264.0	86.2		3-4; Float Collar; 7; 6.276; 7,550.1-7,551.6; 1.50	
12,743.1	7,281.4	88.4		3-5; Casing Joints; 7; 6.276; 7,551.6-7,636.0; 84.37	
13,092.8	7,291.7	88.2		3-6; Float Shoe; 7; 6.276; 7,636.0-7,638.0; 2.00	
13,500.0	7,299.1	89.4		Perforated; 7,661.0-7,763.0; 01/24/2015	
13,847.1	7,303.7	89.8		Perforated; 7,811.0-7,919.0; 01/23/2015	
14,101.0	7,305.3	89.7		Perforated; 7,962.0-8,065.0; 01/23/2015	
14,152.9	7,305.7	89.5		Perforated; 8,113.0-8,216.0; 01/23/2015	
				Perforated; 8,264.0-8,363.0; 01/23/2015	
				Perforated; 8,415.0-8,518.0; 01/23/2015	
				Perforated; 8,566.0-8,669.0; 01/23/2015	
				Perforated; 8,717.0-8,817.0; 01/23/2015	
				Perforated; 8,872.0-8,970.0; 01/23/2015	
				Perforated; 9,019.0-9,121.0; 01/22/2015	
				Perforated; 9,170.0-9,272.0; 01/22/2015	
				Perforated; 9,320.0-9,421.0; 01/22/2015	
				Perforated; 9,476.0-9,574.0; 01/22/2015	
				Perforated; 9,622.0-9,725.0; 01/22/2015	
				Perforated; 9,773.0-9,876.0; 01/22/2015	
				Perforated; 9,924.0-10,025.0; 01/22/2015	
				Perforated; 10,070.0-10,178.0; 01/21/2015	
				Perforated; 10,226.0-10,328.0; 01/21/2015	
				4-3; Casing Joints; 4 1/2; 3.920; 6,578.4-14,098.3; 7,519.97	
				Perforated; 10,377.0-10,379.0; 01/21/2015	
				Perforated; 10,523.0-10,525.0; 01/21/2015	
				Perforated; 10,679.0-10,779.0; 01/21/2015	
				Perforated; 10,829.0-10,932.0; 01/21/2015	
				Perforated; 10,980.0-11,083.0; 01/20/2015	
				Perforated; 11,128.0-11,234.0; 01/20/2015	
				Perforated; 11,282.0-11,385.0; 01/20/2015	
				Perforated; 11,433.0-11,536.0; 01/20/2015	
				Perforated; 11,584.0-11,687.0; 01/20/2015	
				Perforated; 11,735.0-11,837.0; 01/20/2015	
				Perforated; 11,886.0-11,988.0; 01/20/2015	
				Perforated; 12,037.0-12,138.0; 01/19/2015	
				Perforated; 12,195.0-12,290.0; 01/19/2015	
				Perforated; 12,338.0-12,441.0; 01/19/2015	
				Perforated; 12,489.0-12,592.0; 01/19/2015	
				Perforated; 12,640.0-12,743.0; 01/19/2015	
				Perforated; 12,787.0-12,893.0; 01/19/2015	
				Perforated; 12,942.0-13,045.0; 01/18/2015	
				Perforated; 13,093.0-13,196.0; 01/18/2015	
				Perforated; 13,244.0-13,346.0; 01/18/2015	
				Perforated; 13,395.0-13,500.0; 01/18/2015	
				Perforated; 13,546.0-13,648.0; 01/18/2015	
				Perforated; 13,697.0-13,799.0; 01/18/2015	
				Perforated; 13,847.0-13,950.0; 01/11/2015	
				Slotted Liner; 14,098.0-14,101.0; 01/08/2015	
				4-4; Sliding Sleeve; 4 1/2; 3.920; 14,098.3-14,101.6; 3.30	
				4-5; Casing Joints; 4 1/2; 3.920; 14,101.6-14,148.3; 46.66	
				4-6; Landing Collar; 4 1/2; 3.920; 14,148.3-14,150.0; 1.70	
				4-7; Float Collar; 4 1/2; 3.920; 14,150.0-14,151.5; 1.50	
				4-8; Float Shoe; 4 1/2; 3.920; 14,151.5-14,153.0; 1.50	