



Schematic - Current

Well Name: BILLINGS 3B-18H L368

API # 05123369820000	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	Start Date 10/11/2014	End Date 11/02/2014
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TD: 14,105.0

Directional Horizontal Well - Original Hole, 04/22/2015 8:47:14 AM

MD (ftKB)	TVD (ftKB)	Incl (°)	DLS	Vertical schematic (actual)
			DLS (°/...	
28.2	28.2	0.1		3-1; Landing joint; 7; 6.276; -3.0-34.0; 37.00
				1-2; Tubing Hanger; 4 1/16; 1.960; 30.0-30.9; 0.85
34.1	34.1	0.1		2-2; pup jt; 9 5/8; 8.921; 31.0-38.5; 7.50
				3-2; Hanger; 7; 6.276; 34.0-38.0; 4.00
155.8	155.8	0.6		1-1; Casing Joints; 16; 15.250; 32.0-156.0; 126.00
				2-3; Casing Joints; 9 5/8; 8.921; 38.5-819.5; 781.07
866.5	862.9	10.5		2-4; Float Collar; 9 5/8; 8.921; 819.5-821.0; 1.50
				2-5; Casing Joints; 9 5/8; 8.921; 821.0-865.0; 43.96
6,505.2	6,400.0	18.9		2-6; Float Shoe; 9 5/8; 8.921; 865.0-866.5; 1.50
				4-1; Casing Joints; 4 1/2; 3.920; 30.2-6,505.1; 6,507.49
6,975.1	6,808.2	40.5		1-3; Tubing; 2 3/8; 1.995; 30.9-6,641.3; 6,610.45
				3-3; Casing Joints; 7; 6.276; 38.0-7,529.2; 7,491.19
7,172.2	6,945.6	53.3		4-2; Marker Joint; 4 1/2; 3.920; 6,505.1-6,527.8; 22.73
				1-4; X-Nipple; 2 3/8; 1.875; 6,641.3-6,642.2; 0.93
7,529.2	7,083.1	78.2		1-5; Tubing; 2 3/8; 1.995; 6,642.2-7,138.0; 495.71
				1-6; Saver Sub; 2 3/8; 1.991; 7,138.0-7,139.0; 1.10
7,627.0	7,100.9	80.5		1-7; Tubing; 2 3/8; 1.995; 7,139.0-7,172.1; 33.10
				1-8; XN-Nipple; 2 3/8; 1.811; 7,172.1-7,173.2; 1.05
7,828.7	7,132.9	80.9		1-9; Burst disk; 2 3/8; 1.810; 7,173.2-7,174.0; 0.80
				1-10; Mule Shoe; 2 3/8; 1.991; 7,174.0-7,174.4; 0.40
7,991.8	7,153.2	84.4		3-4; Float collar; 7; 6.276; 7,529.2-7,530.7; 1.50
				3-5; Casing Joints; 7; 6.276; 7,530.7-7,607.0; 76.32
8,180.1	7,166.0	88.5		3-6; Shoe; 7; 6.276; 7,607.0-7,609.0; 2.00
				Perforated; 7,627.0-7,733.0; 01/17/2015
8,482.9	7,169.9	88.9		Perforated; 7,781.0-7,883.0; 01/17/2015
				Perforated; 7,931.0-8,033.0; 01/17/2015
8,779.9	7,176.8	88.5		Perforated; 8,081.0-8,180.0; 01/17/2015
				Perforated; 8,235.0-8,333.0; 01/17/2015
9,083.0	7,181.1	89.5		Perforated; 8,381.0-8,483.0; 01/17/2015
				Perforated; 8,531.0-8,633.0; 01/16/2015
9,331.0	7,190.2	86.7		Perforated; 8,681.0-8,780.0; 01/16/2015
				Perforated; 8,834.0-8,933.0; 01/16/2015
9,683.1	7,204.3	87.9		Perforated; 8,981.0-9,083.0; 01/16/2015
				Perforated; 9,131.0-9,233.0; 01/16/2015
9,987.9	7,214.1	88.4		Perforated; 9,281.0-9,331.0; 01/16/2015
				Perforated; 9,433.0-9,533.0; 01/16/2015
10,283.1	7,217.2	90.0		Perforated; 9,581.0-9,683.0; 01/15/2015
				Perforated; 9,731.0-9,833.0; 01/15/2015
10,583.0	7,223.6	88.3		Perforated; 9,881.0-9,988.0; 01/15/2015
				Perforated; 10,031.0-10,133.0; 01/15/2015
10,882.9	7,230.2	88.7		Perforated; 10,181.0-10,283.0; 01/15/2015
				4-3; Casing Joints; 4 1/2; 3.920; 6,527.8-14,030.9; 7,503.04
11,183.1	7,239.8	87.8		Perforated; 10,331.0-10,438.0; 01/15/2015
				Perforated; 10,483.0-10,583.0; 01/15/2015
11,487.9	7,252.5	85.4		Perforated; 10,631.0-10,733.0; 01/14/2015
				Perforated; 10,781.0-10,883.0; 01/14/2015
11,632.9	7,264.4	85.4		Perforated; 10,928.0-11,034.0; 01/14/2015
				Perforated; 11,081.0-11,183.0; 01/14/2015
11,783.1	7,275.3	86.7		Perforated; 11,231.0-11,333.0; 01/14/2015
				Perforated; 11,381.0-11,488.0; 01/14/2015
12,083.0	7,285.8	88.2		Perforated; 11,532.0-11,633.0; 01/13/2015
				Perforated; 11,681.0-11,783.0; 01/13/2015
12,382.9	7,294.1	88.9		Perforated; 11,831.0-11,933.0; 01/13/2015
				Perforated; 11,981.0-12,083.0; 01/13/2015
12,683.1	7,301.0	87.6		Perforated; 12,126.0-12,234.0; 01/13/2015
				Perforated; 12,281.0-12,383.0; 01/13/2015
12,982.9	7,310.6	87.8		Perforated; 12,431.0-12,533.0; 01/12/2015
				Perforated; 12,581.0-12,683.0; 01/12/2015
13,283.1	7,316.7	89.6		Perforated; 12,731.0-12,838.0; 01/12/2015
				Perforated; 12,882.0-12,983.0; 01/12/2015
13,583.0	7,318.0	88.3		Perforated; 13,031.0-13,133.0; 01/11/2015
				Perforated; 13,181.0-13,283.0; 01/11/2015
13,882.9	7,323.7	87.8		Perforated; 13,331.0-13,427.0; 01/11/2015
				Perforated; 13,484.0-13,583.0; 01/11/2015
14,082.0	7,328.5	89.4		Perforated; 13,631.0-13,733.0; 01/10/2015
				Perforated; 13,781.0-13,883.0; 01/10/2015
				Slotted Liner; 14,031.0-14,034.0; 01/10/2015
				4-4; Sliding Sleeve; 4 1/2; 3.920; 14,030.9-14,034.2; 3.30
				4-5; Casing Joints; 4 1/2; 3.920; 14,034.2-14,080.3; 46.14
				4-6; Landing Collar; 4 1/2; 3.920; 14,080.3-14,082.0; 1.70
				4-7; Float Collar; 4 1/2; 3.920; 14,082.0-14,083.5; 1.50
				4-8; Float Shoe; 4 1/2; 3.920; 14,083.5-14,085.0; 1.50