



Schematic - Form 5A

Well Name: Brown 23P-321

API		Spud Date		Field Name		Surface Legal Location		State	
05123426810000		12/28/2016		Wattenberg		SWSE 23 5N 65W		CO	
Horizontal - Original Hole, 10/10/2017 12:26:08 PM									
Vertical schematic (actual)									
<div><div><div>MD (ftKB)</div><div><div>1,543.0</div><div>6,870.4</div><div>7,009.8</div><div>7,379.9</div><div>7,554.1</div><div>7,779.9</div><div>7,954.1</div><div>8,181.1</div><div>8,354.0</div><div>8,581.0</div><div>8,753.9</div><div>8,981.0</div><div>9,151.9</div><div>9,380.9</div><div>9,555.1</div><div>9,724.1</div><div>9,898.0</div><div>10,128.0</div><div>10,297.9</div><div>10,524.9</div><div>10,698.2</div><div>10,924.9</div><div>11,098.1</div><div>11,328.1</div><div>11,499.0</div><div>11,725.1</div><div>11,899.0</div><div>12,125.0</div><div>12,298.9</div><div>12,525.3</div><div>12,642.1</div><div>12,866.1</div><div>13,047.9</div><div>13,269.0</div><div>13,441.9</div><div>13,669.0</div><div>13,836.0</div><div>14,068.9</div><div>14,247.0</div><div>14,470.1</div><div>14,643.0</div><div>14,870.1</div><div>15,043.0</div><div>15,270.0</div><div>15,390.1</div><div>15,666.0</div><div>15,801.8</div></div></div><div><div>Surface Casing Cement; 23.0-1,542.9</div><div>Perforated Cluster; 7,206.0-7,208.0</div><div>Perforated Cluster; 7,266.0-7,268.0</div><div>Perforated Cluster; 7,323.0-7,325.0</div><div>Perforated Cluster; 7,380.0-7,382.0</div><div>Perforated Cluster; 7,437.0-7,439.0</div><div>Perforated Cluster; 7,494.0-7,496.0</div><div>Perforated Cluster; 7,552.0-7,554.0</div><div>Perforated Cluster; 7,609.0-7,611.0</div><div>Perforated Cluster; 7,662.0-7,664.0</div><div>Perforated Cluster; 7,723.0-7,725.0</div><div>Perforated Cluster; 7,780.0-7,782.0</div><div>Perforated Cluster; 7,837.0-7,839.0</div><div>Perforated Cluster; 7,895.0-7,897.0</div><div>Production Casing Cement; 23.0-15,826.2</div><div>Perforated Cluster; 7,952.0-7,954.0</div><div>Perforated Cluster; 8,009.0-8,011.0</div><div>Perforated Cluster; 8,066.0-8,068.0</div><div>Perforated Cluster; 8,125.0-8,127.0</div><div>Perforated Cluster; 8,181.0-8,183.0</div><div>Perforated Cluster; 8,238.0-8,240.0</div><div>Perforated Cluster; 8,295.0-8,297.0</div><div>Perforated Cluster; 8,352.0-8,354.0</div><div>Perforated Cluster; 8,406.0-8,408.0</div><div>Perforated Cluster; 8,466.0-8,468.0</div><div>Perforated Cluster; 8,524.0-8,526.0</div><div>Perforated Cluster; 8,581.0-8,583.0</div><div>Perforated Cluster; 8,638.0-8,640.0</div><div>Perforated Cluster; 8,695.0-8,697.0</div><div>Perforated Cluster; 8,752.0-8,754.0</div><div>Perforated Cluster; 8,809.0-8,811.0</div><div>Perforated Cluster; 8,867.0-8,869.0</div><div>Perforated Cluster; 8,924.0-8,926.0</div><div>Perforated Cluster; 8,981.0-8,983.0</div><div>Perforated Cluster; 9,038.0-9,040.0</div><div>Perforated Cluster; 9,095.0-9,097.0</div><div>Perforated Cluster; 9,150.0-9,152.0</div><div>Perforated Cluster; 9,210.0-9,212.0</div><div>Perforated Cluster; 9,267.0-9,269.0</div><div>Perforated Cluster; 9,324.0-9,326.0</div><div>Perforated Cluster; 9,381.0-9,383.0</div><div>Perforated Cluster; 9,438.0-9,440.0</div><div>Perforated Cluster; 9,496.0-9,498.0</div><div>Perforated Cluster; 9,553.0-9,555.0</div><div>Perforated Cluster; 9,613.0-9,615.0</div><div>Perforated Cluster; 9,667.0-9,669.0</div><div>Perforated Cluster; 9,724.0-9,726.0</div><div>Perforated Cluster; 9,781.0-9,783.0</div><div>Perforated Cluster; 9,839.0-9,841.0</div><div>Perforated Cluster; 9,896.0-9,898.0</div><div>Perforated Cluster; 9,953.0-9,955.0</div><div>Perforated Cluster; 10,010.0-10,012.0</div><div>Perforated Cluster; 10,067.0-10,069.0</div><div>Perforated Cluster; 10,128.0-10,130.0</div><div>Perforated Cluster; 10,182.0-10,184.0</div><div>Perforated Cluster; 10,239.0-10,241.0</div><div>Perforated Cluster; 10,296.0-10,298.0</div><div>Perforated Cluster; 10,353.0-10,355.0</div><div>Perforated Cluster; 10,410.0-10,412.0</div><div>Perforated Cluster; 10,467.0-10,469.0</div><div>Perforated Cluster; 10,525.0-10,527.0</div><div>Perforated Cluster; 10,584.0-10,586.0</div><div>Perforated Cluster; 10,639.0-10,641.0</div><div>Perforated Cluster; 10,696.0-10,698.0</div><div>Perforated Cluster; 10,753.0-10,755.0</div><div>Perforated Cluster; 10,811.0-10,813.0</div><div>Perforated Cluster; 10,866.0-10,868.0</div><div>Perforated Cluster; 10,925.0-10,927.0</div><div>Perforated Cluster; 10,982.0-10,984.0</div><div>Perforated Cluster; 11,039.0-11,041.0</div><div>Perforated Cluster; 11,096.0-11,098.0</div><div>Perforated Cluster; 11,154.0-11,156.0</div><div>Perforated Cluster; 11,211.0-11,213.0</div><div>Perforated Cluster; 11,268.0-11,270.0</div><div>Perforated Cluster; 11,328.0-11,330.0</div><div>Perforated Cluster; 11,382.0-11,384.0</div><div>Perforated Cluster; 11,439.0-11,441.0</div><div>Perforated Cluster; 11,497.0-11,499.0</div><div>Perforated Cluster; 11,554.0-11,556.0</div><div>Perforated Cluster; 11,608.0-11,610.0</div><div>Perforated Cluster; 11,668.0-11,670.0</div><div>Perforated Cluster; 11,725.0-11,727.0</div><div>Perforated Cluster; 11,786.0-11,788.0</div><div>Perforated Cluster; 11,840.0-11,842.0</div><div>Perforated Cluster; 11,897.0-11,899.0</div><div>Perforated Cluster; 11,954.0-11,956.0</div><div>Perforated Cluster; 12,011.0-12,013.0</div><div>Perforated Cluster; 12,062.0-12,064.0</div><div>Perforated Cluster; 12,125.0-12,127.0</div><div>Perforated Cluster; 12,183.0-12,185.0</div><div>Perforated Cluster; 12,240.0-12,242.0</div><div>Perforated Cluster; 12,297.0-12,299.0</div><div>Perforated Cluster; 12,351.0-12,353.0</div><div>Perforated Cluster; 12,411.0-12,413.0</div><div>Perforated Cluster; 12,469.0-12,471.0</div><div>Perforated Cluster; 12,530.0-12,532.0</div><div>Perforated Cluster; 12,580.0-12,582.0</div><div>Perforated Cluster; 12,640.0-12,642.0</div><div>Perforated Cluster; 12,697.0-12,699.0</div><div>Perforated Cluster; 12,759.0-12,761.0</div><div>Perforated Cluster; 12,812.0-12,814.0</div><div>Perforated Cluster; 12,866.0-12,868.0</div><div>Perforated Cluster; 12,926.0-12,928.0</div><div>Perforated Cluster; 12,983.0-12,985.0</div><div>Perforated Cluster; 13,046.0-13,048.0</div><div>Perforated Cluster; 13,097.0-13,099.0</div><div>Perforated Cluster; 13,155.0-13,157.0</div><div>Perforated Cluster; 13,214.0-13,216.0</div><div>Perforated Cluster; 13,269.0-13,271.0</div><div>Perforated Cluster; 13,324.0-13,326.0</div><div>Perforated Cluster; 13,383.0-13,385.0</div><div>Perforated Cluster; 13,440.0-13,442.0</div><div>Perforated Cluster; 13,502.0-13,504.0</div><div>Perforated Cluster; 13,555.0-13,557.0</div><div>Perforated Cluster; 13,612.0-13,614.0</div><div>Perforated Cluster; 13,669.0-13,671.0</div><div>Perforated Cluster; 13,726.0-13,728.0</div><div>Perforated Cluster; 13,793.0-13,795.0</div><div>Perforated Cluster; 13,834.0-13,836.0</div><div>Perforated Cluster; 13,898.0-13,900.0</div><div>Perforated Cluster; 13,955.0-13,957.0</div><div>Perforated Cluster; 14,012.0-14,014.0</div><div>Perforated Cluster; 14,069.0-14,071.0</div><div>Perforated Cluster; 14,127.0-14,129.0</div><div>Perforated Cluster; 14,184.0-14,186.0</div><div>Perforated Cluster; 14,245.0-14,247.0</div><div>Perforated Cluster; 14,298.0-14,300.0</div><div>Perforated Cluster; 14,355.0-14,357.0</div><div>Perforated Cluster; 14,412.0-14,414.0</div><div>Perforated Cluster; 14,470.0-14,472.0</div><div>Perforated Cluster; 14,525.0-14,527.0</div><div>Perforated Cluster; 14,584.0-14,586.0</div><div>Perforated Cluster; 14,641.0-14,643.0</div><div>Perforated Cluster; 14,702.0-14,704.0</div><div>Perforated Cluster; 14,755.0-14,757.0</div><div>Perforated Cluster; 14,813.0-14,815.0</div><div>Perforated Cluster; 14,870.0-14,872.0</div><div>Perforated Cluster; 14,927.0-14,929.0</div><div>Perforated Cluster; 14,984.0-14,986.0</div><div>Perforated Cluster; 15,041.0-15,043.0</div><div>Perforated Cluster; 15,099.0-15,101.0</div><div>Perforated Cluster; 15,156.0-15,158.0</div><div>Perforated Cluster; 15,213.0-15,215.0</div><div>Perforated Cluster; 15,270.0-15,272.0</div><div>Perforated Cluster; 15,327.0-15,329.0</div><div>Perforated Cluster; 15,388.0-15,390.0</div><div>Perforated Cluster; 15,442.0-15,444.0</div><div>Perforated Cluster; 15,499.0-15,501.0</div><div>Perforated Cluster; 15,556.0-15,558.0</div></div></div> <div><div>Casing Pup Joint; 24.0; 6.00</div><div>Casing Joints; 30.0; 1,511.89</div><div>Float Shoe; 1,541.9; 1.00</div><div>Casing Joints; 23.0; 6,378.63</div><div>Marker Joint; 6,401.6; 19.30</div><div>Air Lock Sub; 6,420.9; 1.75</div><div>Casing Joints; 6,422.7; 3,268.12</div><div>Marker Joint; 9,690.8; 19.62</div><div>Casing Joints; 9,710.4; 2,814.72</div><div>Marker Joint; 12,525.1; 19.52</div><div>Casing Joints; 12,544.6; 2,771.09</div><div>Marker Joint; 15,315.7; 19.35</div><div>Casing Joints; 15,335.1; 331.01</div><div>Toe Sleeve; 15,666.1; 3.50</div><div>Casing Joints; 15,669.6; 41.38</div><div>Toe Sleeve; 15,711.0; 3.50</div><div>Casing Joints; 15,714.5; 41.40</div><div>Toe Sleeve; 15,755.9; 3.50</div><div>Casing Joints; 15,759.4; 41.44</div><div>Landing Collar; 15,800.8; 0.90</div><div>Marker Joint; 15,801.7; 9.64</div><div>Float Collar; 15,811.4; 1.62</div><div>Float Collar; 15,813.0; 1.62</div><div>Marker Joint; 15,814.6; 9.64</div><div>Float Shoe; 15,824.2; 1.96</div></div> </									