

**WELLBORE DIAGRAM**  
**St. Croix Operating, Inc.**  
**Rocky 1**

SHL: 600' FNL 1100' FWL Sec. 8-T3S-R50W  
Vertical Well  
Lat/Long: 39.81415, -103.00625  
Washington County, CO  
API 05-121-11085

**Current as Plugged**

06/18/2019  
PAG

**NOT TO SCALE**

K.B.= 4,603'  
G.L.= 4,597'  
6'

**TOPS (MD)**

Niobrara 3,006'

Ft Hays 3,445'

D Sand 3,905'

J Sand 3,960'

TD @ 4100' MD

5 sx Class A cement in rathole  
Cut 5' below ground, welded on engraved plate  
Cement plug @ Surface-60'  
w/15 sx 14.0 ppg Class A Cement (1.14 yield)

Surface casing cement: Surface-491'  
300 sx 14.8 ppg (1.24 yield) Class A + adds Cement  
Cement Returns: 10 bbl good cement back to surface

8-5/8" 24# J-55 set @ 491' (12-1/4" OH)

Cement plug 1/2-in-1/2-out @ 416'-560" (calc)  
50 sx 13.8 ppg (1.37 yield) Class A + adds Cement

OH Cement plug @ 2825'-3000' (calc)  
40 sx 13.8 ppg (1.37 yield) Class A + adds Cement

OH Cement plug @ 3650'-3900' (calc)  
40 sx 13.8 ppg (1.37 yield) Class A + adds Cement

7-7/8" OH to TD  
SLB Triple Combo OH Logs ran to TD