

WELLBORE DIAGRAM

St. Croix Operating, Inc.

Jack Creek 2

SHL: 900' FSL, 600' FEL Sec. 4-T2S-R51W

Vertical Well

Lat/Long: 39.90507, -103.08955

Washington County, CO

API 05-121-11079

Current as Plugged

01/15/2019

PAG

NOT TO SCALE

K.B.= 4,612'

G.L.= 4,594'

18'

TOPS (MD)

5 sx Class A cement in mousehole, 5 sx in rathole

Cut 5' below ground, welded on engraved plate

Cement plug @ Surface-40'

w/15 sx 14.0 ppg Class A Cement (1.14 yield)

Surface casing cement: Surface-503'

300 sx 15.2 ppg (1.24 yield) Class A + adds Cement

Cement Returns: 10 bbl good cement back to surface

8-5/8" 24# J-55 set @ 503' (12-1/4" OH)

Cement plug 1/2-in-1/2-out@ 550'-354" (calc)

50 sx 15.2 ppg (1.24 yield) Class A + adds Cement

OH Cement plug @ 3015'-3180" (calc)

40 sx 15.2 ppg (1.24 yield) Class A + adds Cement

OH Cement plug @ 3902'-4150' (calc)

60 sx 15.2 ppg (1.24 yield) Class A + adds Cement

7-7/8" OH to TD

SLB Triple Combo OH Logs ran to TD

Niobrara 3,210'

Ft Hays 3,640'

D Sand 4,092'

J Sand 4,146'

TD @ 4285' MD