

WELLBORE DIAGRAM
St. Croix Operating, Inc.
Jack Creek 1

SHL: 2038' FNL 600' FWL Sec. 16-T3S-R52W
 Vertical Well
 Lat/Long: 39.91161, -103.08922
 Washington County, CO
 API 05-121-11078

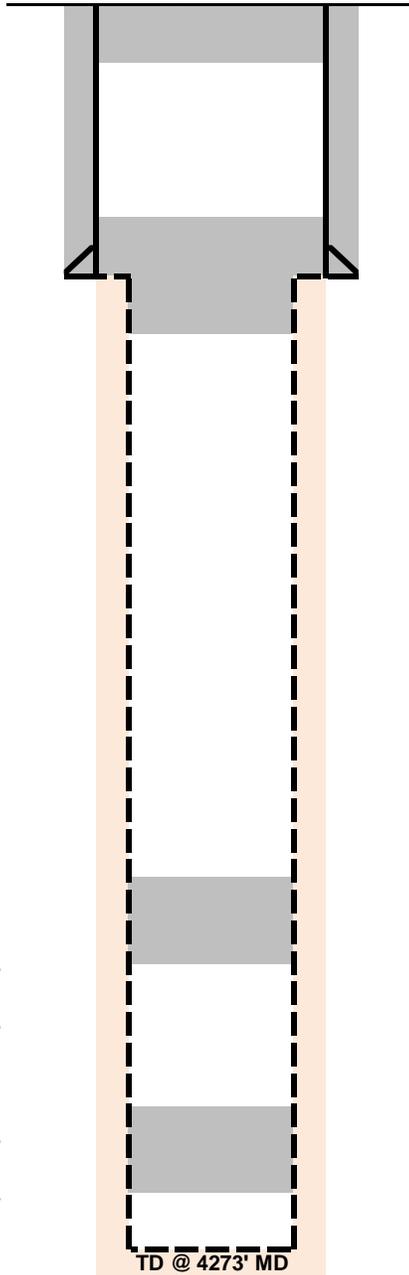
Current as Plugged

07/30/2018
 PAG

NOT TO SCALE

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

TOPS (MD)



5 sx Class A cement in mousehole, 5 sx 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-477'
 300 sx 15.2 ppg (1.24 yield) Class A + adds Cement
 Cement Returns: 28 bbl good cement back to surface

8-5/8" 24# J-55 set @ 477' (12-1/4" OH)

Cement plug 1/2-in-1/2-out @ 570'-374" (calc)
 50 sx 15.2 ppg (1.24 yield) Class A + adds Cement

OH Cement plug @ 2995'-3160" (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 3,213'

Ft Hays 3,630'

D Sand 4,105'

J Sand 4,158'

TD @ 4273' MD