



**WELLBORE DIAGRAM**  
**PROPOSED WBD**

2170 FNL 471 FWL

1 Mile Offset:  
No PR Sussex  
3 SI Sussex  
Deepest WW: 1270'  
Base Fox Hills: 1238'

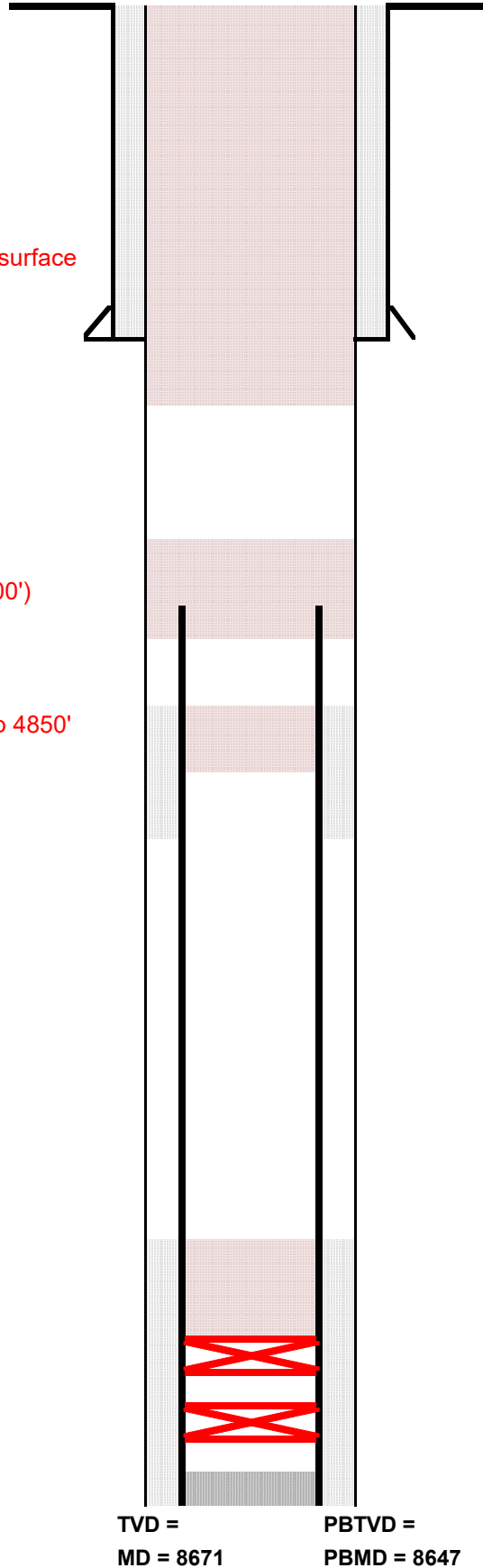
Pump surface plug from 1600' to surface  
500 sx Class G w/ 2% CaCl<sub>2</sub>

Pump stub plug from 2550'  
120 sx G AGM 4,2 (est top @ 2100')  
Cut and pull casing @ 2500'

Place 25 sx Class G from 5250' to 4850'

Place 50 sx Thermal 35 on top  
Estimated top at 7250'  
CIBP set at 8050'

CIBP set at 8500'



<b>Operator:</b>	Great Western Oil & Gas Company
<b>Well Name:</b>	Kortum 12-21
<b>Lease Number:</b>	
<b>Location:</b>	SWNW Sec 21 T1S R67W
<b>Field:</b>	Wattenberg
<b>County, State:</b>	Adams, CO
<b>API Number:</b>	05-001-09490
<b>Diagram Date:</b>	7/22/2020
<b>Lat/Long</b>	39.951626/-104.901538

**KB** 5288

**GL** 5272

**Spud Date:** 3/26/2004

**Surface Casing :**

8-5/8" 24# 29 jnts set @ 1534' (12-1/4" Hole)  
Cmt w/ 603 sx

**Production Casing :**

4-1/2", 11.6# 210 jnts set @ 8645' (7-7/8" Hole)  
Cmt w/ 245 sx, TOC 7230'  
Stage tool from 5510' to 4410' w/ 222 sx  
**Cut and pull at 2500'**

**Tubing Detail:**

**Formation Tops:**

SUSSEX	5085
NIOBRARA	7686
FORT HAYS	8086
CODELL	8111
CARLILE	8131
GREENHORN	8146
MOWRY	8518
J SAND	8530

**Perforations**

Codell	8112-8130
J-Sand	8530-8574