

OPERATOR: K.P. Kauffman Company Inc.  
WELL: MORGAN 'A' #4  
FIELD: SPINDLE  
API # 05-123-09476  
LEASE #: \_\_\_\_\_  
UIC #: \_\_\_\_\_

CNTY: FREDERICK/WELD FTG: \_\_\_\_\_  
STATE: CO Q-Q: NWSW  
SPUD: 5/26/1978 SEC.: 34  
COMP: 8/22/1978 TWS: 2N  
STATUS: PR RGE: 68W  
WBD DATE: 8/17/2022 BY: \_\_\_\_\_

### CURRENT WELLBORE DIAGRAM

KBE: 5038 '  
KB: 10 '  
GLE: 5028 '

TD (ft): 5217 '  
PBDT (ft): 5169 '

#### CASING RECORD

HOLE (in)	SIZE (in)	WT (lb/ft)	GRADE	TOP (ft)	BTM (ft)
<u>12 1/4</u>	<u>8 5/8</u>	<u>24</u>		<u>0</u>	<u>741</u>
<u>7 7/8</u>	<u>4 1/2</u>	<u>10.5</u>		<u>0</u>	<u>4939</u>

#### TUBING RECORD

SIZE (in)	WT (lb/ft)	GRADE	JOINTS	BTM (ft)

#### PERFORATION RECORD

ZONE	TOP (ft)	BTM (ft)	HOLES	STAGE	STATUS
<u>SUSSEX</u>	<u>4592</u>	<u>4654</u>	<u>126</u>		
<u>SHANNON</u>	<u>5066</u>	<u>5090</u>	<u>50</u>		

12.25" Hole  
8.625" 24# Csg @741 '  
Cmtd w/400 sxs

TOC @ 3929 '  
Calc Assuming 1.15 yield

7.875" Hole  
4.5" 10.5# Csg @4939 '  
Cmtd w/200 sxs

SUSSEX Perfs  
4592'-4654'

SHANNON Perfs  
5066'-5090'

PBDT (ft): 5169 '  
TD (ft): 5217 '