

WILSON WRIGHT PETROLEUM LABORATORIES

BOX 2526 TULSA OK 74102 (918) 584-6060

BOMB# THEIRS SAMPLED

8/28/84
FILE # 9430

FIELD/PLANT SCHNEIDER

COMANCHE PRODUCTION INC.

WELL/LINE #1A

KANOPOLIS KS 67454

SEC.

ATTN. TO MRS. DELORES SHIVELY

T & R

PRESS= PSIG. TEMP=F LAB SAMPLE # 4957

HYDROCARBON COMPOSITION BY GAS CHROMATOGRAPH

COMPONENTS	MOL. %	GAL/MCF
HELIUM	1.06	
HYDROGEN	0.00 (.0025)	
OXYGEN	0.00	
NITROGEN	25.47	
CARBON DIOXIDE	0.02	
METHANE	68.79	
ETHANE	2.79	
PROPANE	1.10	0.3026
ISO-BUTANE	0.19	0.0621
N-BUTANE	0.32	0.1008
ISO-PENTANE	0.08	0.0292
N-PENTANE	0.08	0.0289
HEXANE	0.05	0.0205
HEPTANE+	0.05	0.0243
TOTAL	100.00	0.5684

GASOLINE CONTENT: GAL PER 1000 CU.FT.

26# R.V.P.=27.5 PSIA TRUE 0.1459
14# R.V.P.=15.0 PSIA TRUE 0.1033

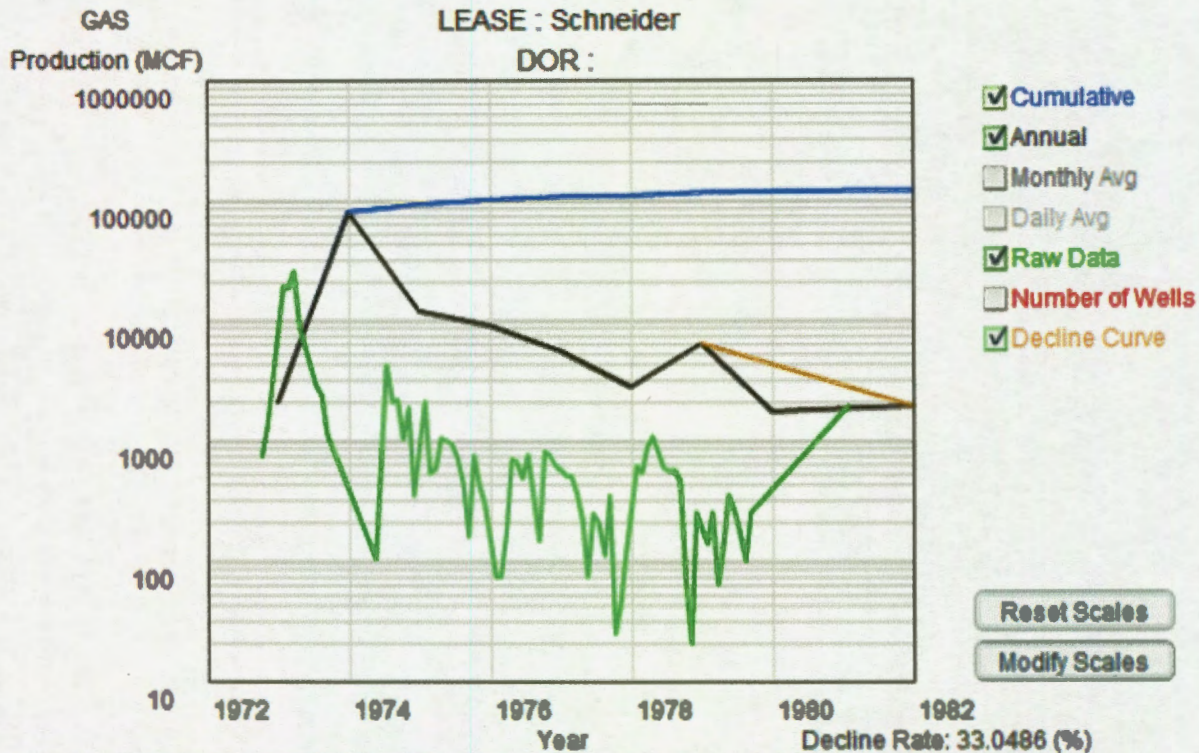
HEATING VALUE, GROSS BTU/CF OF TRUE GAS

BONE DRY AT 14.7 PSIA, 60DEG F 800
WATER SATURATED AT 30IN HG, 60DEG F 788

SPECIFIC GRAVITY OF GAS (AIR=1.000) 0.692

Monte L. Fruits
MONTE L FRUITS

Production Plot & Decline Curve Analysis



Decline Rate: 33.0486 (%)

<p>Decline Curve Analysis Method</p> <p> <input checked="" type="radio"/> Exponential $Q_t = Q_i \exp(-Kt)$ <input type="radio"/> Harmonic Constant (K): 0.401203 <input type="radio"/> Hyperbolic Exponent (n): <input type="text" value="0"/> </p>	<p>Enter Production Rate for Computation</p> <p> <input type="radio"/> Daily <input type="radio"/> Monthly <input checked="" type="radio"/> Yearly </p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Initial Production (Qi)</td> <td>Present Production (Qt)</td> </tr> <tr> <td>Enter Year: <input type="text" value="1978"/></td> <td>Enter Year: <input type="text" value="1981"/></td> </tr> <tr> <td>Enter Rate: <input type="text" value="6391"/></td> <td>Enter Rate: <input type="text" value="1918"/></td> </tr> </table>	Initial Production (Qi)	Present Production (Qt)	Enter Year: <input type="text" value="1978"/>	Enter Year: <input type="text" value="1981"/>	Enter Rate: <input type="text" value="6391"/>	Enter Rate: <input type="text" value="1918"/>
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Enter Rate: <input type="text" value="6391"/>	Enter Rate: <input type="text" value="1918"/>						
<p>Cumulative Production</p> <p>Production (Actual): 119337 MCF</p> <p>Production (Computed): 126840 MCF</p>	<p>Production at Economic Limit</p> <p>Economic Limit Rate (Qf): <input type="text"/> Year: <input type="text"/></p> <p>Enter Rate: <input type="text"/> MCF Per <input checked="" type="radio"/> Day <input type="radio"/> Month <input type="radio"/> Year</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Cum at Economic Limit (EUR): <input type="text"/> MCF</td> <td>Remaining Reserves (RR): <input type="text" value="0"/> MCF</td> </tr> </table>	Cum at Economic Limit (EUR): <input type="text"/> MCF	Remaining Reserves (RR): <input type="text" value="0"/> MCF				
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References:

Decline Curve Analysis:

SPE 83470 "A Decline Curve Analysis Model Based on Fluid Flow Mechanisms"
 by Kewen Li, SPE, and Roland N. Home, SPE, Stanford University
<http://pangea.stanford.edu/~kewenli/spe83470.pdf>