

WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURES (P_c or P_{gr})
FROM KNOWN BOTTOM HOLE PRESSURE (P_f or P_g)

COMPANY Tennaco LEASE Kennett Dependent WELL NO. 2 DATE 5-20-80

LOCATION: Unit L 12,630 Section 29 Township 16 S Range 34 E

L 12,630 H 12,630 LH 1.00 G 1 % CO₂ 16.5 % N₂ 34E % H₂S

GH 8045 P_{gr} 669 T_{gr} 365
TABLE IX B X TABLE IX B X

LINE	1	2	3	4	5	6	7	8
1	T _w (W.H. °R)	534	534					
2	T _s (B.H. °R)	660	660					
3	T _f ($\frac{T_w + T_s}{2}$)	597	597					
4	Z (Est.)	1.085	1.024					
5	TZ	647.7	611.3					
6	GH/TZ	12.420	13.160					
7	e ^s (Table XIV)	1.593	1.638					
8	P _f or P _s	6235.2	6235.2					
9	P _f ² or P _s ²	38877.7	38877.7					
10	P _c ² = P _f ² /e ^s or P _w ² = P _s ² /e ^s	24402.1	23734.4					
11	P _c or P _w	4939.9	4871.8					
12	P _c ($\frac{P_w + P_s}{2}$) or ($\frac{P_c + P_f}{2}$)	5587.6	5553.5					
13	P _r = (P/P _{gr})	8.35	8.20					
14	T _r = (T/T _{gr})	1.64	1.64					
15	Z (Table XI)	1.024	1.021					

NEW-TEX LAB

P. O. BOX 1161
HOBBS, N.M. 88240

No. 2339
Run No. _____
Date of Run 3-21-80
Date Secured 3-20-80

CERTIFICATE OF ANALYSIS

Sample of Tenneco Oil Co. Kemnitz Deep 29 #2
Secured from West Engineering
412 N. Dal Paso
Hobbs, NM 88240 Secured by _____
Time _____ Date _____
Sampling conditions _____ Press _____
Temp. _____

4th Rate

FRACTIONAL ANALYSIS

Percentage Composition

	MOL %	LIQ. %	G.P.M.
Carbon Dioxide	.221		
Nitrogen	1.737		
Oxygen			
Hydrogen sulfide			
Hydrogen			
Methane	89.224		
thane	4.997		1.333
Propane	2.357		.649
Butanes			
iso-Butane	.297		.097
n-Butane	.501		.158
Pentanes			
iso-Pentane	.113		.041
n-Pentane	.126		.046
Hexanes	.123		.050
Heptanes Plus	.304		.129
Octanes			
TOTAL	100.000		2.503

Calc. Sp. Gr. — 0.6373
Calc. A.P.I. — _____
Calc. Vapor Press. — _____ PSIA
Sp. Gr. _____
Mol. Wt. _____

LIQUID CONTENT (GAL./MCF)

Propane Calc. G.P.M. .649
Butanes Calc. G.P.M. .255
Pentanes Plus. G.P.M. .266
Ethane Calc. G.P.M. 1.333
RVP Gasoline G.P.M. _____
B.T.U./Cu. Ft. @ 14.696 P.S.I.A.
Dry Basis 1108
Wet Basis 1089
Sulfur Analysis by Titration
Gr./100 Cu. Ft. _____
Hydrogen Sulfide _____
Mercaptans _____
Sulfides _____
Residual Sulfur _____
Total Sulfur _____

by Deane Simpson Checked by _____ Approved by Deane Simpson

Additional Data and Remarks