

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Federal Kate PC Formation Pictured Cliffs County Garni, Kansas
 Initial ✓ Annual ✓ Special ✓ Date of Test 2-11-65
 Company Kate Oil Gas Co Lease Walker Well No. 1
 Unit 6 Sec. 3 Twp. 29N Rge. 12W Purchaser 346
 Casing 3 1/2 Wt. 2.7 I.D. 3.12 Set at 2058 Perf. 1925 To 1924
 Tubing 1 Wt. 1.2 I.D. 1.049 Set at 1913 Perf. 1894 To 1904
 Gas Prod. From 1938 To 1974 L 1938 XG 700000 CL 1357 Bar. Press. ✓
 Producing Interval Casing X Tubing ✓ Type Well Single-Bradenhead-G. G. or G.O. Dual
 Date of Completion: 2/4/65 Packer 13000 Reservoir Temp. ✓

OBSERVED DATA

Tested Through (Packer) (Choke) (Motor)Type Taps ✓

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Packer) (Choke) (Motor) Size	(Choke) (Packer) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI	<u>1 day</u>					<u>235</u>		<u>234</u>		
1.	<u>1/4"</u>					<u>138</u>	<u>60°C</u>	<u>23</u>	<u>60°C</u>	<u>2.7</u>
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24 Hour)	$\sqrt{h_w P_f}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	<u>12.365</u>		<u>80</u>	<u>1.000</u>	<u>1.000</u>	<u>1.000</u>	<u>9.19</u>
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio ✓ cf/hbl.
 Gravity of Liquid Hydrocarbons ✓ deg.
 $P_c = (1 - e^{-S})$

Specific Gravity Separator Gas ✓
 Specific Gravity Flowing Fluid ✓
 $P_c = 2.74$ $P_c = 2.76$

No.	F_w P _t (psia)	P_c^2	$F_c Q$	$(F_c Q)^2$	$(F_c Q)^2 (1 - e^{-S})$	P_w^2	$P_c^2 - P_w^2$	Cal. P _w	P_w / P_c
1.	<u>150</u>					<u>22500</u>	<u>22500</u>		
2.									
3.									
4.									
5.									

Absolute Potential: 1365 MCFPD: ✓
 COMPANY ✓
 ADDRESS ✓
 AGENT and TITLE ✓
 WITNESSED ✓
 COMPANY ✓

REMARKS

