

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 2-9-80	
Company Kenai Oil & Gas Inc.				Connection	
Pool Undesignated				Formation Fruitland	
Completion Date 2-2-1980		Total Depth 3575		Plug Back TD 2420	
Elevation 7369		Form or Lease Name Federal-42 31			
Crg. Size 4.500	Wt. 10.5	d 4.052	Set At 3560	Perforations: From 2380 To 2395	
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 2378	Perforations: From Open To Ended	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At packer not set	
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F 12 psia (est)	
L		H		State New Mexico	
Gg 6.50 (est)		% CO ₂		% N ₂	
% H ₂ S		Prover		Meter Run	
Taps					

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
1.	2 days						552		552	
2.	2 inch	.750		276			276	48°	361	
3.										
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, F _{spv}	Rate of Flow Q, Mcfd
1.	12.3650		288	1.0117	.9608	1.031	3569
2.							
3.							
4.							
5.							

NO.	P _i	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.										
2.										
3.										
4.										
5.										

NO.	P _i	P _w	P _w ²	P _i ² - P _w ²	(1) $\frac{P_c^2}{P_i^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_i^2 - P_w^2} \right]^n =$
1.		373	139,129	178,967	1.7774	1.6305
2.						
3.						
4.						
5.						

Absolute Open Flow		5819	Mcfd @ 15.025	Angle of Slope θ	.85
Remarks:					

Approved By Commission:	Conducted By: R. F. Elledge	Calculated By: Joe F. Elledge	Checked By: Mr. George Judd
-------------------------	--------------------------------	----------------------------------	--------------------------------

