

NEW <ICO OIL CONSERVATION COMMISSIC
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 9-29-69	
Company R. K Petroleum Corp.				Connection		
Pool Wildcat				Formation Morrow		Unit B
Completion Date 9-24-69		Total Depth 12,510		Plug Back TD 11,057		Elevation 4317 GL
Csq. Size 5 1/2	Wt. 17#	Set At 11,110	Perforations: From 10,593 To 11,047		Well No. 1	
Thg. Size 2 3/8	Wt. 4.70	Set At 10,571	Perforations: From Open end To		Unit Sec. Twp. Rge. B 27 13-S, 32-E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 10,439		County Lea
Producing Thru Tubing		Reservoir Temp. °F 183 @ 10,500		Mean Annual Temp. °F		Baro. Press. - P _a 15.025
State New Mexico						
L 10,820	H 10,820	G _g .750	% CO ₂ .39	% N ₂ 2.60	% H ₂ S 0	Prover 2"
Meter Run		Taps				

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
1.	2"		3/4	101		54	1363	96			10 min.
2.	2"		3/4	85		60	1382	86			"
3.	2"		3/4	79		64	1388	86			"
4.	2"		3/4	42		78	1451	82			"
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	9.453		116	1.006	1.155	1.018	1,298
2.	9.453		100	1.000	1.155	1.015	1,107
3.	9.453		94	0.9962	1.155	1.015	1,038
4.	9.453		57	0.9831	1.155	1.013	620
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 2.6 Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons 51 Deg.
2.					Specific Gravity Separator Gas .750 XXXXXXX
3.					Specific Gravity Flowing Fluid XXXXX .7753
4.					Critical Pressure P.S.I.A. 15 P.S.I.A.
5.					Critical Temperature R R

NO.	P _t ²	P _w ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ _____ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ _____ AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ _____
1.		3695	13653		
2.		3372	11370	2283	
3.		3375	11391	2262	
4.		3388	11479	2174	
5.		3493	12201	1452	

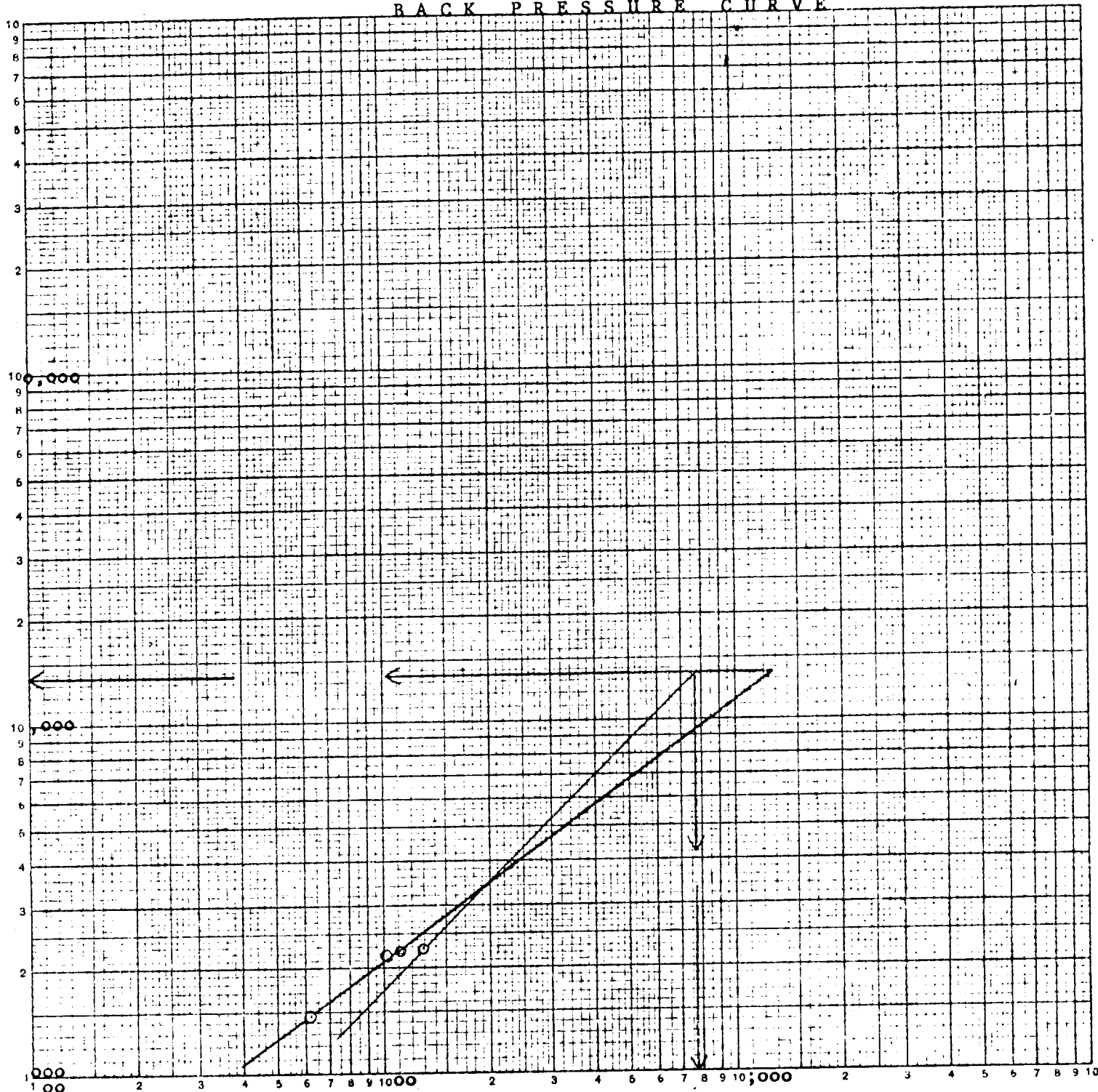
Absolute Open Flow 7,700 Mcfd @ 15.025		Angle of Slope Θ 45°	Slope, n 1.000
Remarks: Perforations 10,593-99; 10,729-35; 11,039-47.			
Approved By Commission:		Conducted By: Tom Hanson Co.	Calculated By: Richard Turner
		Checked By:	

COMPANY R K Petroleum Corporation
 FIELD W lcat
 COUNTY Lea STATE New Mexico
 LEASE State (Morrow) WELL 1
 DATE 9-29-69

RACK PRESSURE CURVE

$P_f - P_s$
 (Thousands)

LOGARITHMIC 46 7402
 5 X 5 CYCLES
 KEUFFEL & ESSER CO.



$n = 1,000$

$Q = 7,700$ MCF/Day

$\theta = 45^\circ$