

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

Form C-122
Revised 9-1-65

RECEIVED

4/51
File

Type Test: ☒ Initial ☐ Annual ☐ Special						Test Date: 3/25/83		APR 27 1983	
Company: Monsanto Oil Company				Connection: Transwestern				O. C. D. ARTESIA OFFICE	
Pool: Dagger Draw				Formation: Atoka				Unit: 0	
Completion Date: 3/25/83		Total Depth: 9556'		Plug Back TD: 9065'		Elevation: 3503 GR		Farm or Lease Name: Albert Federal	
Csg. Size: 5.5"	Wt.: 20	d: 4.778"	Set At: 9566'	Perforations: From 9015 To 9019		Well No.: 1			
Thg. Size: 2.875"	Wt.: 6.5	d: 2.441"	Set At: 9177'	Perforations: From To		Unit Sec. Twp. Rge.: 0 32 19S 25E			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single Completion						Packer Set At: 8950'		County: Eddy County	
Producing Thru Tubing		Reservoir Temp. °F: 153 @ 9017'		Mean Annual Temp. °F: 60		Baro. Press. - P _a : 13.2		State: New Mexico	
L: 9017	H: 9017	G _g : 0.594	% CO ₂ : 0.57	% N ₂ : 0.84	% H ₂ S: 0.00	Prover	Meter Run: X	Taps: Flange	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line 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
SI							475	50			47 hrs.
1.	2"		.5"	60	4"	50	460	48	0	50	1 hr.
2.	2"		.5"	60	10"	50	425	50	0	50	1 hr.
3.	2"		.5"	60	14"	50	375	50	0	50	1 hr.
4.	2"		.5"	60	20"	50	325	50	0	50	1 hr.
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	1.19	17.11	73.2	1.0117	1.2975	1.0066	27
2	1.19	27.06	73.2	1.0098	1.2975	1.0065	42
3	1.19	32.01	73.2	1.0098	1.2975	1.0065	50
4	1.19	38.26	73.2	1.0098	1.2975	1.0065	60
5							

NO.	P _r	Temp. °R	T _r	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	0.11	508	1.44	0.987	0	0	.594	X X X X X X X X	674	353
2	0.11	510	1.44	0.987			X X X X X	0.594		
3	0.11	510	1.44	0.987					P.S.I.A.	P.S.I.A.
4	0.11	510	1.44	0.987					R	R
5										

NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²
1	224	475	225	14
2	192	439	193	47
3	151	389	151	88
4	114	389	115	125
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.9216$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 83$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3885$

Absolute Open Flow: 83 Mcfd @ 15.025	Angle of Slope θ: 63.3	Slope, n: 0.503
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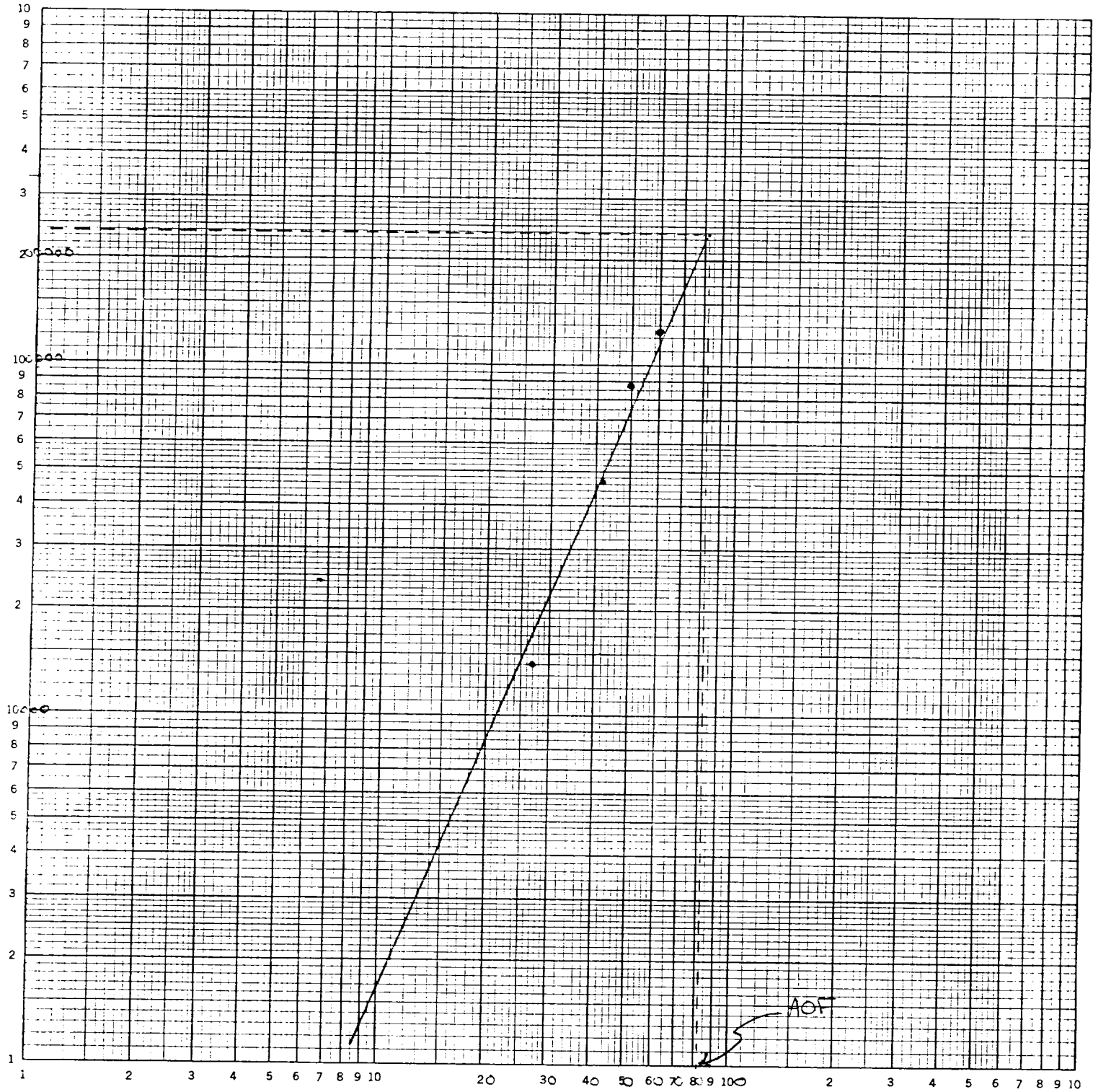
Remarks:			
Approved By Commission:	Conducted By: Cecil Patterson	Calculated By: Hal Crabb	Checked By:

Lease Albert Federal
 Well No. 1
 Field: Dagger Draw
 County: Eddy
 Date: 4-22-83

46 7403

C-13

K&E LOGARITHMIC 3 X 3 CYCLES
 KEUFFEL & ESSER CO. MADE IN U.S.A.



$Q, \text{mcf/d}$

Absolute Open Flow 83 mcf/d