

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 9-21-77		8-27-77	
Company Doyle Hartman				Connection None			
Pool Langle Mattix				Formation 7 River Queens		Unit	
Completion Date 9-21-77		Total Depth 3698		Plug back TD 3657		Elevation 3275 GL	
Form or Lease Name Adele Sowell		Well No. 1		Unit P		Sec. Twp. Range 19 24 37	
Csg. Size 4 1/2	Wt. 10.5	Set At 3698	Perforations: From 3402 To 3515		Well No.		
Tub. Size 2 3/8	Wt. 4.7	Set At 3520	Perforations: From open To end		Unit Sec. Twp. Range P 19 24 37		
Type Well - Single - Brokenshead - G.G. or G.O. Multiple Single				Pecker Set At None		County Lea	
Producing Thru Tubing		Reservoir Temp. °F 60		Mean Annual Temp. °F 60		State New Mexico	
L 3520	H 3520	Gg .683	% CO ₂	% N ₂	% H ₂ S	Prover 2"	Meter Run Feet

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				211			211		211		
1.	2 x 3/16			205		80	205	80	205	80	
2.	2 x 7/32			204		80	204	80	204	80	
3.	2 x 1/4			203		80	203	80	204	80	
4.	2 x 3/8			191		79	191	79	202	79	
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. Compens. Factor, F _{pv}	Rate of Flow Q, Mgd
1	.6082		218.2	.9813	1.210	1.020	161
2	.8393		217.2	.9813	1.210	1.020	221
3	1.087		216.2	.9813	1.210	1.021	285
4	2.378		204.2	.9732	1.210	1.022	584
5							

NO.	P _t	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.	.31	540	1.40	.961			.683		669	385
2.	.31	540	1.40	.961						
3.	.32	540	1.40	.960						
4.	.33	539	1.40	.958						
5.										

NO.	P _t ²	P _w ²	P _w ² - P _t ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1		218.2	47.6	12.575	12.575
2		217.2	47.2		
3		217.2	47.2		
4		215.2	46.3		
5					

Absolute Open Flow 7.344 Mgd @ 15.625 Angle of Slope 45 Slope, n 1.000

Remarks:

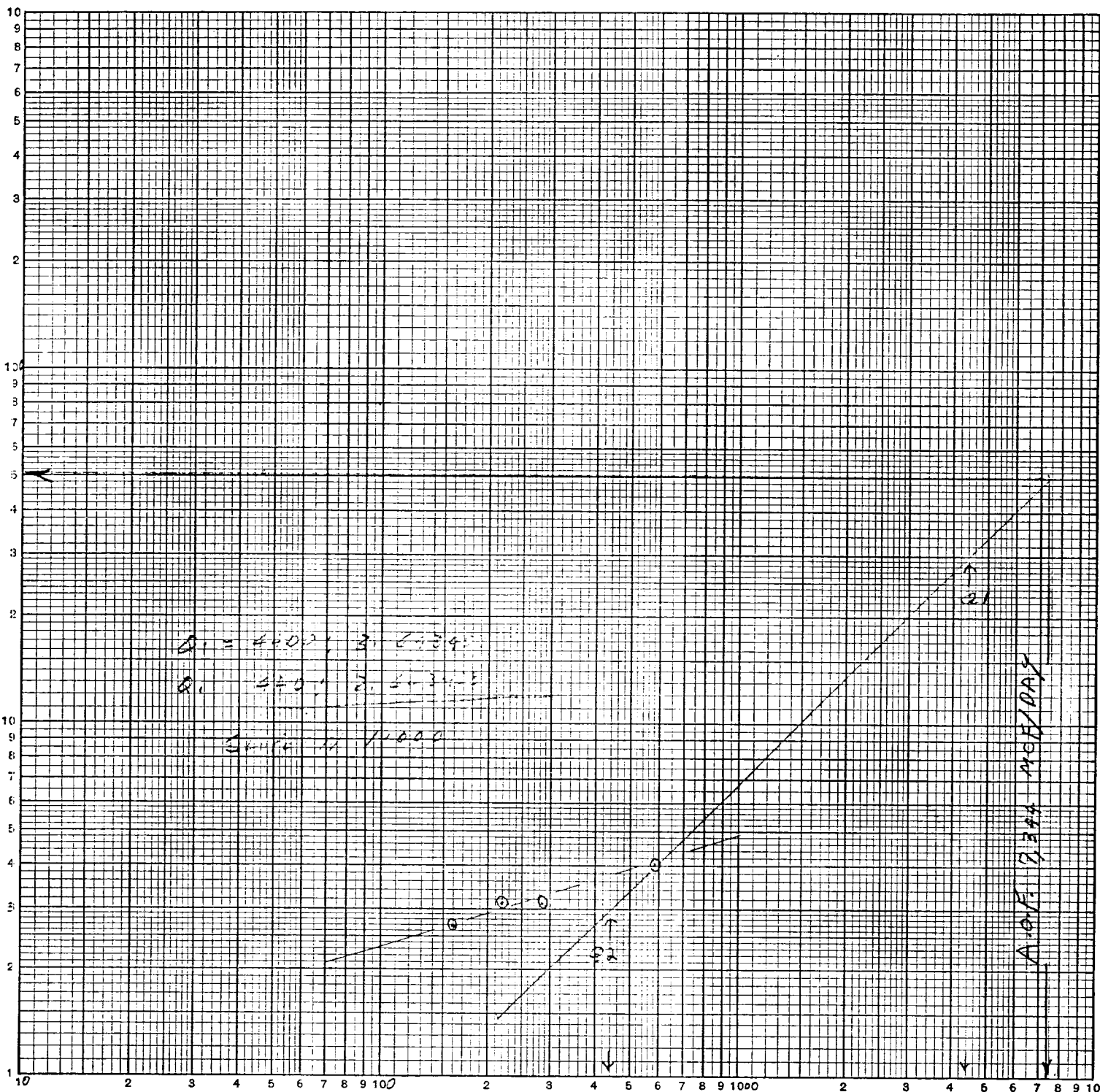
Orig. Signed By Jerry Sexton Dist. L. Supv.	Conducted By: Joe B. Murray	Calculated By: S. M. Lenamon	Checked By: JBM
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DOYLE HARTMAN

Adele Sowell No. 1
P-19-24-37 Lea County, New Mexico
September 21, 1977

100000
100000
100000

MADE IN U.S.A.
KEUFFEL & ESSER CO.



Q MCF/DAY