

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 4-19-77		SPUD DATE: 4-4-77	
Company Doyle Hartman				Connection None			
Pool Jalmat				Formation Yates Seven Rivers			
Completion Date 4-19-77		Total Depth 3274		Plug Back TD 3244		Elevation 3199 GL	
Form or Lease Name Langlie Jal Federal				Well No. 1			
Csg. Size 4 1/2	Wt. 10.5	d 	Set At 3274	Perforations: From 2875 To 3177		Unit A	
Trg. Size 2 3/8	Wt. 4.7	d 	Set At 2996	Perforations: From open To end		Unit Sec. Twp. Rge. A 8 25 37	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		County Lea	
Producing Thru Thg.		Reservoir Temp. °F e		Mean Annual Temp. °F 		Baro. Press. - P _g 13.2	
L 2996		H 2996		Gg 		% CO ₂ 	
						Prover 2" ↓	
						Meter Run 	
						Tape 	

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	
51							120		125		
1.	2 x 3/16			115		75	115		120		30 Min.
2.	2 x 1/4			112		75	112		115		30 Min.
3.	2 x 5/16			110		75	110		113		30 Min.
4.	2 x 3/8			106		75	106		112		30 Min.
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, Fpv	Rate of Flow Q, Mcfd
1	.6082		128.2	.9859	1.235	Nil	95
2	1.087		125.2	.9859	1.235	Nil	166
3	1.672		123.2	.9859	1.235	Nil	251
4	2.378		119.2	.9859	1.235	Nil	345
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1				Nil	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2				Nil	Specific Gravity Separator Gas .656 X X X X X X X X
3				Nil	Specific Gravity Flowing Fluid X X X X X
4				Nil	Critical Pressure 673 P.S.I.A. P.S.I.A.
5					Critical Temperature 341 R R

P _c 138.2	P _c ² 19.1	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.618$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5.618$
NO.	P _r ²	P _w	P _w ²
1	133.2	17.7	1.4
2	128.2	16.4	2.7
3	126.2	15.9	3.2
4	125.2	15.7	3.4
5			

Absolute Open Flow 1,938 Mcfd @ 15.025		Angle of Slope 45	Slope, n 1.000
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Remarks: Point alignment too flat, slope of 45 drawn through high rate of flow. No fluid made during test.

Approved By Commission:	Conducted By: Starley Lenamon	Calculated By: Starley Lenamon	Checked By:
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DOYLE HARTMAN

Jal Langlie Federal No. 1
A-8-25-37 Lea County, New Mexico
April 19, 1977

$P_{12} - P_{w2}$ IN (000's)

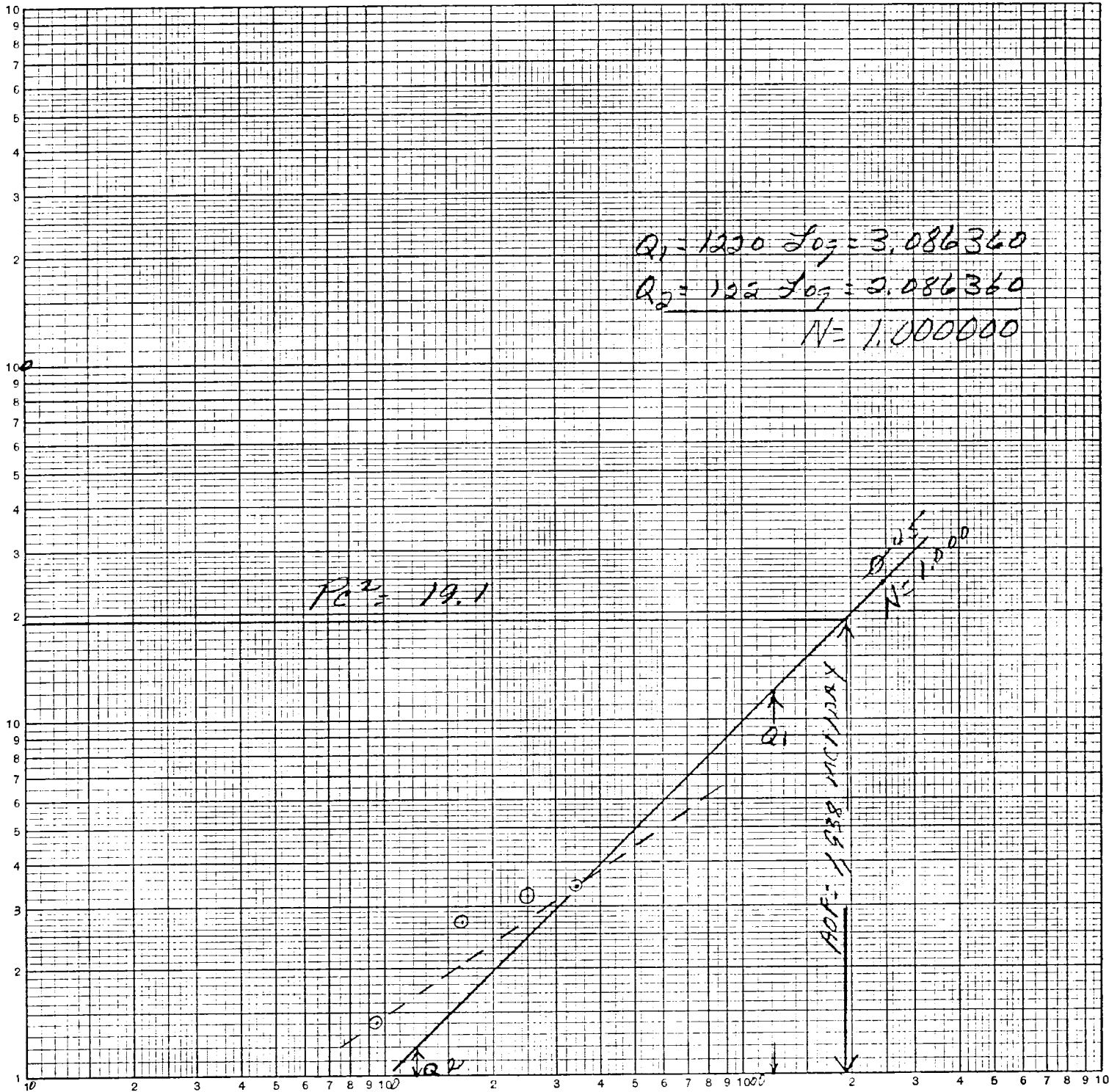
$$Q_1 = 1220 \text{ Log} = 3.086360$$

$$Q_2 = 122 \text{ Log} = 2.086360$$

$$N = 1.000000$$

$P_{12} = 19.1$

LOGARITHMIC
3 X 3 CYCLES
467400
MADE IN U.S.A.
KEUFFEL & ESSER CO.



$Q = \text{MCF/Day}$