

N MEXICO OIL CONSERVATION COM. ON
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				Unit: A	
Completion Date: 4-19-77		Total Depth: 3274		Plug Back TD: 3244		Elevation: 3199 GL		Farm or Lease Name: Langlie Jal Federal	
Csg. Size: 4 1/2	Wt.: 10.5	d:	Set At: 3274	Perforations: From 2875 To 3177		Well No.: 1			
Tvg. Size: 2 3/8	Wt.: 4.7	d:	Set At: 2996	Perforations: From open To end		Unit: A Sec. 8 Twp. 25 Rge. 37			
Type Well - Single - Broadhead - G.G. or G.O. Multiple: Single						Packer Set At: None		County: Lea	
Producing Thru: Thg. L		Reservoir Temp. *F: e		Mean Annual Temp. *F:		Baro. Press. - P _o : 13.2		State: New Mexico	
2996	H: 2996	Gg:	% CO ₂ :	% N ₂ :	% H ₂ S:	Prover: 2"	Meter Run:	Taps:	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prever 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							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, Mhd
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.	A.P.I. Gravity of Liquid Hydrocarbons Deg.
1				Nil	Specific Gravity Separator Gas: .656	X X X X X X X X
2				Nil	Specific Gravity Flowing Fluid: X X X X X	
3				Nil	Critical Pressure: 673 P.S.I.A.	P.S.I.A.
4				Nil	Critical Temperature: 341 R	R
5						

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 _c ²	P _w	P _w ²	P _c ² - 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					

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.938$

Absolute Open Flow: 1,938 Mcf @ 15.025 Angle of Slope: 45 Slope, n: 1.000

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

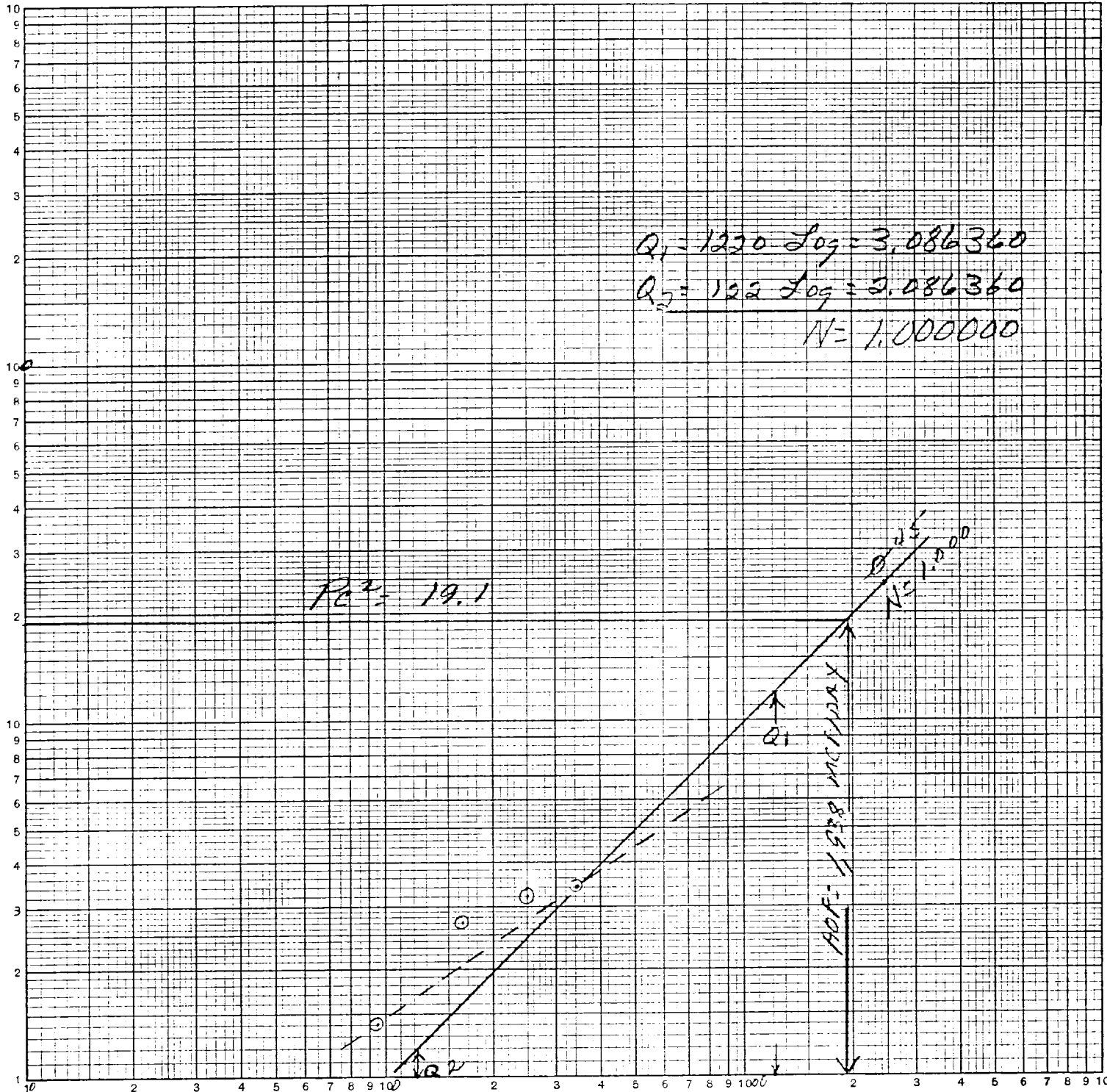
Jal Langlie Federal No. 1
A-8-25-37 Lea County, New Mexico
April 19, 1977

PC2-PW2 IN (000's)

$Q_1 = 1220 \text{ Log} = 3.086360$
 $Q_2 = 122 \text{ Log} = 2.086360$
 $N = 1.000000$

$PC^2 = 19.1$

LOGARITHMIC 46 7400
3 X 3 CYCLES
MADE IN U.S.A.
KEUFFEL & ESSER CO.



Q=MCF/Day