

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

C/SR File
C-122 File
Form C-122
Revised 9-1-65

RECEIVED

Type Test: ☒ Initial ☐ Annual ☐ Special				Date: 08-12-80		AUG 15 1980 O. C. D. ARTESIA, OFFICE	
Company: JEM RESOURCES				Correlation: AIR			
Pool: LEVER Cone Gb.				Formation: METEX		Unit: M	
Completion Date: 02-20-79		Total Length: 2560		Flag back To: 2551		Elevation: GL 3599	
Csg. Size: 5 1/2		Wt.: 15.5		Set At: 2551		Perforations: From 2240 To 2260	
Tub. Size: 2 3/8		J 55		Set At: 2200		Perforations: To	
Type well - Single - Bradenhead - G.G. or G.O. Multiple				Packer Set At: -----		Well No. # 5	
SINGLE GAS WELL						Unit: M 33 16s 29e	
Producing Thru: TUBING		Reservoir Temp. °F: 7308		Mean Annual Temp. °F: -----		Baro. Press. - P _a : 13.2	
L: H: Gg: % CO ₂ : % N ₂ : % H ₂ S: Prover: 2"						County: EDDY	
						State: NEW MEXICO	
						Meter Run: Turns:	

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							480		480		1 HR.
1.	2 X 3/32			460		69	460		460		1 HR.
2.	2 X 3/16			410		68	410		410		1 HR.
3.	2 X 1/4			362		68	362		365		1 HR.
4.	2 X 5/16			255		67	255		267		1 HR.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor F _{pv}	Rate of Flow Q, Mcfd
1	.1410		473.2	.9915	1.170	1.043	81
2	.6082		423.2	.9924	1.170	1.039	311
3	1.087		375.2	.9924	1.170	1.034	490
4	1.672		268.2	.9933	1.170	1.025	534
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio Mcf/bbl.	A.P.I. Gravity of Liquid Hydrocarbons Deg.	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure P.S.I.A.	Critical Temperature °R
1	.73	529	1.46	.920						
2	.66	528	1.46	.935						
3	.58	528	1.46	.935						
4	.42	527	1.46	.952						
5										

NO.	P _r ²	P _w ²	P _w ²	P _r ² - P _w ²
1		473.2	2239.2	193.3
2		423.2	1791.	641.5
3		378.2	1430.4	1002.1
4		280.2	785.1	1647.4
5				

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 2.427$

ADP = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.189$

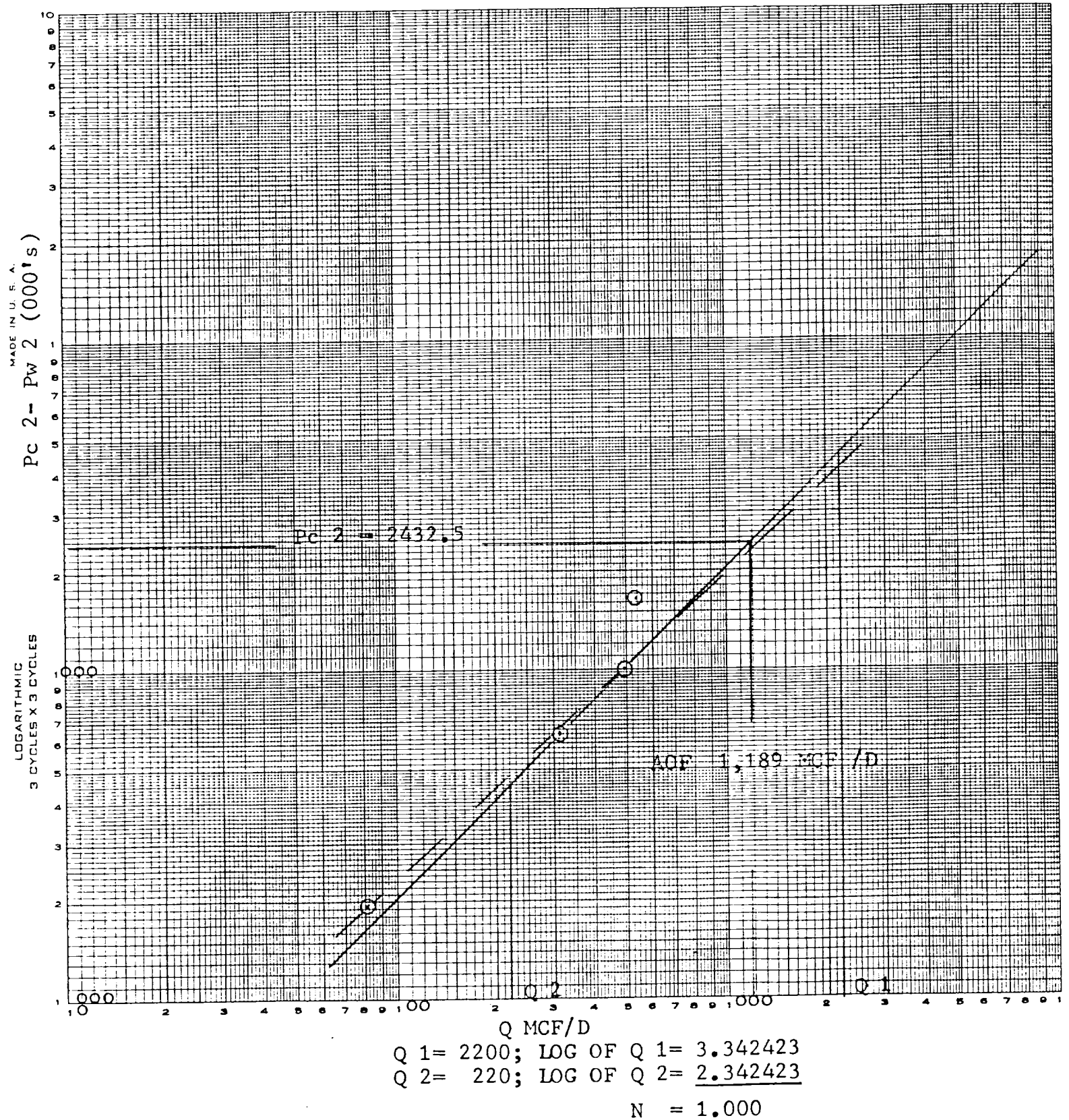
(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2.427$

Absolute Open Flow: 1,189 Mcf @ 15.025	Angle of Slope: 45	Slope, n: 1.000
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Remarks:

Approved By: _____	Conducted By: DAVIS SERVICES INC.	Calculated By: RICK PAGAN	Checked By: _____
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COMPANY : JEM RESOURCES
 LEASE : LEVERS
 WELL NO. : # 5
 UNIT : M /sec.33/twp.16s/rge.29e
 COUNTY : EDDY
 STATE : NEW MEXICO
 DATE : AUGUST 12,1980



NEW-TEX LAB

P. O. BOX 1181
HOBBS, N.M. 88240

CERTIFICATE OF ANALYSIS

No. 3811
Run No. _____
Date of Run 8-13-80
Date Secured 8-12-80

A Sample of JEM Resources Levers #5
Secured from Davis Services
At Box 2033 Secured by _____
Hobbs, NM 88240 Time _____ Date _____
Sampling conditions _____ Press _____
Temp. _____

FRACTIONAL ANALYSIS

Percentage Composition

MOL % LIQ. % G.P.M.

Carbon Dioxide	NIL	
Air		
Nitrogen	13.925	
Oxygen		
Hydrogen sulfide		
Hydrogen		
Methane	70.553	
Ethane	9.343	2.492
Propane	4.026	1.105
Butanes		
Iso-Butane	.395	.129
N-Butane	1.166	.367
Pentanes		
Iso-Pentane	.210	.077
N-Pentane	.215	.078
Hexanes	.128	.053
Heptanes Plus	.039	.018
Octanes		
TOTAL	100.000	4.319

Calc. Sp. Gr. 0.7308
Calc. A.P.I. _____
Calc. Vapor Press. _____ PSIA
Sp. Gr. _____
Mol. Wt. 21.28

LIQUID CONTENT (GAL./MCF)

Propane Calc. G.P.M. 1.105
Butanes Calc. G.P.M. .496
Pentanes Plus. G.P.M. .226
Ethane Calc. G.P.M. 2.492
RVP Gasoline G.P.M. _____
B.T.U./Cu. Ft. @ 14.696 P.S.I.A.
Dry Basis 1055
Wet Basis 1037
Sulfur Analysis by Titration
Gr./100 Cu. Ft. _____
Hydrogen Sulfide _____
Mercaptans _____
Sulfides _____
Residual Sulfur _____
Total Sulfur _____

Run by Teresa McKee Checked by Deane Simpson Approved by [Signature]

Additional Data and Remarks