

N. M. O. I. C. COB.

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C-122

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

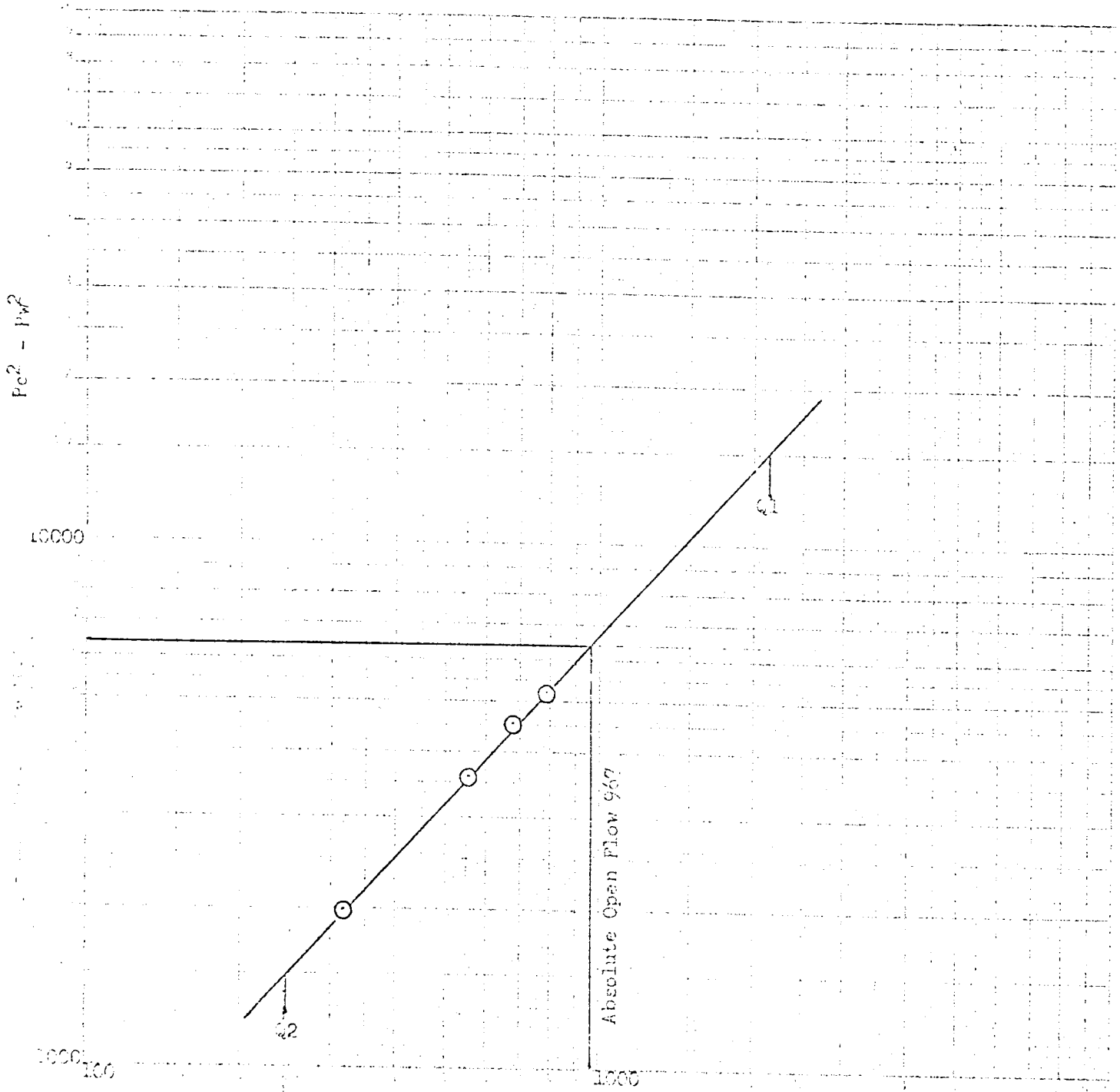
Form C-122
Revised 9-1-65

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Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special				Test Date 12/28/74		JAN 6 - 1975	
Company Franklin, Aston & Fair, Inc.			Connection 1028			O. C. C. ARTESIA OFFICE	
Pool Wildcat <i>main</i>			Formation Morrow			Unit North King Camp	
Completion Date 12/23/74		Total Depth 9728.10268		Plug Back TD 9215.7250		Elevation 3754 KB	
Csg. Size 4 1/2		Wt. 11.6		Set At 9723		Perforations: From 9138 To 9116	
Tub. Size 2 3/8		Wt. 4.7		Set At 9120		Perforations: From open ended To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 9099		County Chaves	
Producing Thru Tubing		Reservoir Temp. *F 137 @ 9042		Mean Annual Temp. *F 60		Baro. Press. - P _a 13.2	
L 9099		H 9099		G _g .723		% CO ₂ 0.92	
				% N ₂ 2.55		% H ₂ S —	
				Prover		Meter Run 3"	
						Taps Flange	
FLOW DATA				TUBING DATA		CASING DATA	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. *F	Press. p.s.i.g.
NO.							Temp. *F
NO.							Press. p.s.i.g.
NO.							Temp. *F
NO.							Duration of Flow
1.	3		1.250	150	2.5	74	1350
2.	3		1.250	150	3	91	1025
3.	3		1.250	150	12	84	600
4.	3		1.250	150	16	73	575
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.	7.577	34.03	163.2	.9868	1.176	1.050	314
2.	7.577	60.87	163.2	.9715	1.176	1.045	555
3.	7.577	74.55	163.2	.9777	1.176	1.047	630
4.	7.577	86.09	163.2	.9831	1.176	1.049	793
5.							
NO.	P _i	Temp. *R	T _r	Z	Gas Liquid Hydrocarbon Ratio 7.93 Mcf/bbl.		
1.	0.67	534	1.38	.707	A.P.I. Gravity of Liquid Hydrocarbons 55.9 Deq.		
2.	0.67	551	1.42	.715	Specific Gravity Separator Gas .723		
3.	0.67	544	1.40	.712	Specific Gravity Flowing Fluid X X X X X		
4.	0.67	533	1.37	.709	Critical Pressure 667 P.S.I.A.		
5.					Critical Temperature 383 R		
P _c 2534.2		P _c 6122.2*					
NO.	P _i ²	P _w ²	R _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.235$		
1.	2104.2	4427.7	1994.5		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.222$		
2.	1698.2	2893.9	3588.3		AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 967$		
3.	1374.2	1888.4	4533.3				
4.	1106.2	1223.7	5198.5				
5.							
Absolute Open Flow 967 Mcfd @ 15.025				Angle of Slope @ 4.47 1.77		Slope, n = 0.13	
Remarks: *From bottom hole pressure gauge @ 9042							
Approved By Commission:		Conducted By:		Calculated By:		Checked By:	
		Larry Davis		Donna Holler			

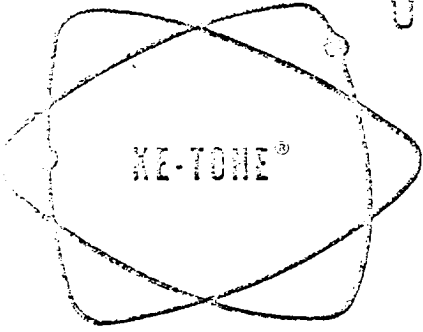
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U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

Franklin, Aston & Fair, Inc.
 North King Camp Unit No. 11
 Unit P, Sec. 35, T13S, R29E
 Chaves County, New Mexico
 December 28, 1974



Q MCFPD

Log Q1 = 3.332439
 Log Q2 = 2.389166
 n = 0.943273



UNITED CHEMICAL CORPORATION

OF NEW MEXICO
P. O. BOX 1499 N. M. O. C. COPY PHONE 393-7751
HOBBS, NEW MEXICO 88240

No. 3423
Run No. _____
Date of Run 12-30-74
Date Secured _____

CERTIFICATE OF ANALYSIS

717 11-2-35-3-21

A Sample of North King #11
Secured from Oil Reports & Gas Services
At 810 W. Broadway Hobbs, NM 88240 Secured by _____
Time _____ Date _____
Sampling conditions _____ Press _____
Temp. _____

FRACTIONAL ANALYSIS

Percentage Composition

	MOL %	LIQ. %	G.P.M.
Carbon Dioxide	.917		
Nitrogen	2.547		
Methane	80.290		
Ethane	7.569		2.019
Propane	4.949		1.363
Butanes			
Iso-Butane	.605		.197
N-Butane	1.619		.509
Pentanes			
Iso-Pentane	.436		.159
N-Pentane	.410		.148
Hexanes	.230		.094
Heptanes	.430		.183
TOTAL	100.00		4.672

Calc. Sp. Gr. 0.7232
Calc. A.P.I. _____
Calc. Vapor Press. _____ P.S.I.A.
Sp. Gr. _____
Mol. Wt. 20.99

LIQUID CONTENT (GAL./MCF)

Propane Calc. G.P.M. 1.363
Butanes Calc. G.P.M. .706
Pentanes Plus. G.P.M. .584
Ethane Calc. G.P.M. 2.019
_____ RVP Gasoline G.P.M. _____

B.T.U./Cu. Ft. @ 14.696 P.S.I.A.
 Dry Basis 1209
 Wet Basis 1187

Sulfur Analysis by Titration
 Gr./100 Cu. **RECEIVED**
Hydrogen Sulfide _____
Mercaptans _____
Sulfides _____
Residual Sulfur _____
Total Sulfur _____

JAN - 3 - 1975

U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

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

Additional Data and Remarks