

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

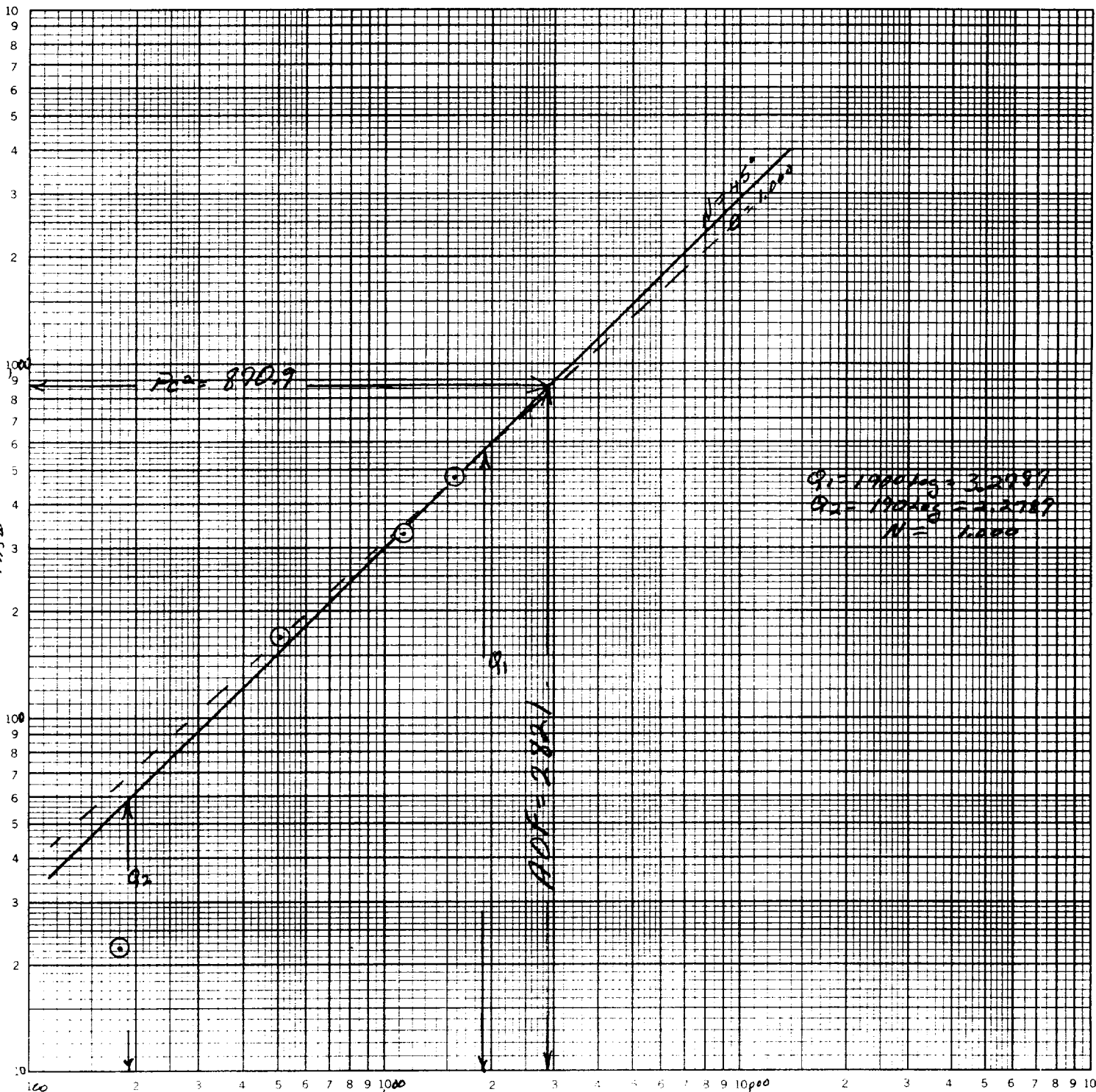
O. C. D.

ARTESIA, OFFICE

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 05-27-82		NM-12438	
Company Western Reserve				Connection To Air			
Pool Pecos Slope Abo				Formation Abo		Unit	
Completion Date 4-26-82		Total Depth 4213		Plug Back TD 4113		Elevation 4110 GA	
Csg. Size 4.5		Wt. 10.5		Set At 4213		Perforations: From 3790 To 3972	
Tbg. Size 2 3/8		Wt. 4.7		Set At 3663		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		Farm or Lease Name Bravo Fed.	
Producing Thru Tbg		Reservoir Temp. °F 60		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L		H		Gg .9050		% CO ₂ 26.938	
				% N ₂ 10.825		% H ₂ S 2.0	
				Prover 2.0		Meter Run Taps	
FLOW DATA				TUBING DATA		CASING DATA	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.
SI							920
1.	2.0	X	.250	150		60	901
2.	2.0	X	.500	100		60	810
3.	2.0	X	1.00	50		60	712
4.	2.0	X	1.00	75		61	557
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, Mc/d
1	1.087		163.2	1.00	1.051	.970	181
2.	4.279		113.2	1.00	1.051	NIL	509
3.	17.09		63.2	1.00	1.051	NIL	1135
4.	17.09		88.2	.9990	1.051	NIL	1583
5.							
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.		
1.	.21	520	1.36		A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.		
2.	.15	520	1.36	NIL	Specific Gravity Separator Gas .905 XXXXXXXXXX		
3.	.08	520	1.36	NIL	Specific Gravity Flowing Fluid XXXXX		
4.	.12	521	1.37	NIL	Critical Pressure 760 P.S.I.A. _____ P.S.I.A. _____		
5.					Critical Temperature 381 R _____ R _____		
P _c 933.2 P _c ² 870.9							
NO.	P ₁ ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.782$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.782$		
1		921.2	848.6	22.3			
2		837.2	700.9	170.0			
3		733.2	537.6	333.3			
4		618.2	382.2	488.1			
5							
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.821$							
Absolute Open Flow 2,821 Mc/d @ 15.025					Angle of Slope 45°		Slope, n 1.00
Remarks: No Fluid Made During Test.							
Approved By Division		Conducted By: Baber Well Service		Calculated By: B.R.		Checked By: Mark Rowland	

46 7400

K+S LOGARITHMIC 3 X 3 CYCLES · $PC^2 \cdot V^{1.2}$
KEUFFEL & ESSER CO. MADE IN U.S.A.



$$Q = mCF/DA$$

**NEW-TEX
LAB**

PHONE 505/393-3561

P. O. BOX 1161

611 W. SNYDER

HOBBS, NEW MEXICO 88240

ANALYSIS CERTIFICATE

CLIENT: BABER WELL SERVICING
ADDRESS: BOX 1772
CITY, STATE: HOBBS NM 88240

ANALYSIS NUMBER : 7528
DATE OF RUN : 5 28 82
DATE SECURED : 5 27 82

SAMPLE IDENT: WESTERN RESERVES - BRAVO FEDERAL #2
SAMPLING PRESS: SAMPLING TEMP:

***** GAS ANALYSIS *****

	MOLE PERCENT	GAL/ MCF
NITROGEN	10.825	
CARBON DIOXIDE	26.938	
METHANE	56.911	
ETHANE	2.893	0.772
PROPANE	1.328	0.365
ISO-BUTANE	0.217	0.071
NORMAL BUTANE	0.445	0.140
ISO-PENTANE	0.126	0.046
NORMAL PENTANE	0.139	0.050
HEXANES	0.107	0.044
HEPTANES PLUS	0.071	0.033
TOTAL	100.000	1.521

PROPANE GPM:	0.37	BUTANES GPM:	0.21
ETHANE GPM:	0.77	PENTANES PLUS GPM:	0.17

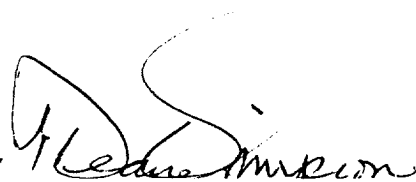
SPECIFIC GRAV (CALC): 0.9050
MOLE WEIGHT: 26.21

HHV-BTU/CU FT	PRESSURE (PSIA)	WET	DRY
14.696		689	701
14.650		686	699
14.730		690	702
14.735		690	703

DEANE SIMPSON

ANALYZED BY:

APPROVED BY



RECEIVED Transwester

Artesia
Tex Mex

O. C. D.

OFFICE

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