

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-132
Revised 9-1-49

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Type Test: ☒ Initial FOUR POINT ☐ Annual ☐ Special						Test Date: NOV 22 1982	
Company: DEPCO, INC. ✓				Connection: AIR NEW WELL		O. C. D.	
Pool: PECOS SLOPE <i>U.D. Also</i>				Formation: ABO		ARLWMA OFFICE	
Completion Date: 11-1-82		Total Depth: 4225.		Plug Hole: 4156.		Elevation: 0	
Well Size: 4.500		Wt.: 10.5		d: 4.052		Perforations: From 3787 To 3853	
Well No.: 2		Perforations: From 3787 To 3853		Well No.: 2		Unit: C	
Type Well: SINGLE		Packer Set At: NONE		County: CHAVES		State: NEW MEXICO	
Producing thru TUBING		Reservoir Temp. °F: 108 3870		Mean Annual Temp. °F: 60°		Base Press. - P _g : 13.2	
L: 3870		H: 3870		Q _g : 0.673		% CO ₂ : 1.39	
% N ₂ : 8.34		% H ₂ S: 0		Prover: 0		Meter Run: 2.00	
Type: FLANGE							

FLOW DATA						TUBING DATA		B.H.P. DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. In. Hg	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
51							934	63	1043	71.2 HRS.
1	2.03	X	1.500	290	2.0	54	900	61	1010	12/64 1 HR
2	2.03	X	1.500	297	5.2	40	816	55	920	16/64 1 HR
3	2.03	X	1.500	295	7.7	38	735	57	833	18.5/64 1 HR
4	2.03	X	1.500	300	10.1	38	670	54	758	20/64 1 HR
5										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_p}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor F _{sp}	Rate of Flow Q, Mcfd
1	13.00	24.63	303.2	1.0058	1.2188	1.0286	404
2	13.00	40.16	310.2	1.0198	1.2188	1.0313	669
3	13.00	48.71	308.2	1.0218	1.2188	1.0315	814
4	13.00	56.24	313.2	1.0218	1.2188	1.0321	940
5							

NO.	P ₁	Temp. °R	Q	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity at Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	0.46	514.	1.44	0.945			0.673	XXXXXX		
2	0.47	500.	1.40	0.940						
3	0.47	498.	1.40	0.940						
4	0.47	498.	1.40	0.939						
5										

NO.	P ₁	P ₂	R ₁	P ₂ - R ₁	(1) $\frac{P_2^2}{R_1^2 - R_2^2} = 2.1610$	(2) $\left[\frac{R_2^2}{R_1^2 - R_2^2} \right]^n = 1.4729$
1	1047.	923.	852.	55.		
2	871.	843.	710.	197.		
3	716.	765.	585.	321.		
4	595.	698.	487.	420.		
5						

Absolute Open Flow 1385. Mcfd @ 15.025 Angle of Slope 63.3 Slope, n 0.503

Remarks: BOTTOM HOLE PRESSURE MEASURED WITH AMERADA PRESSURE ELEMENTS.

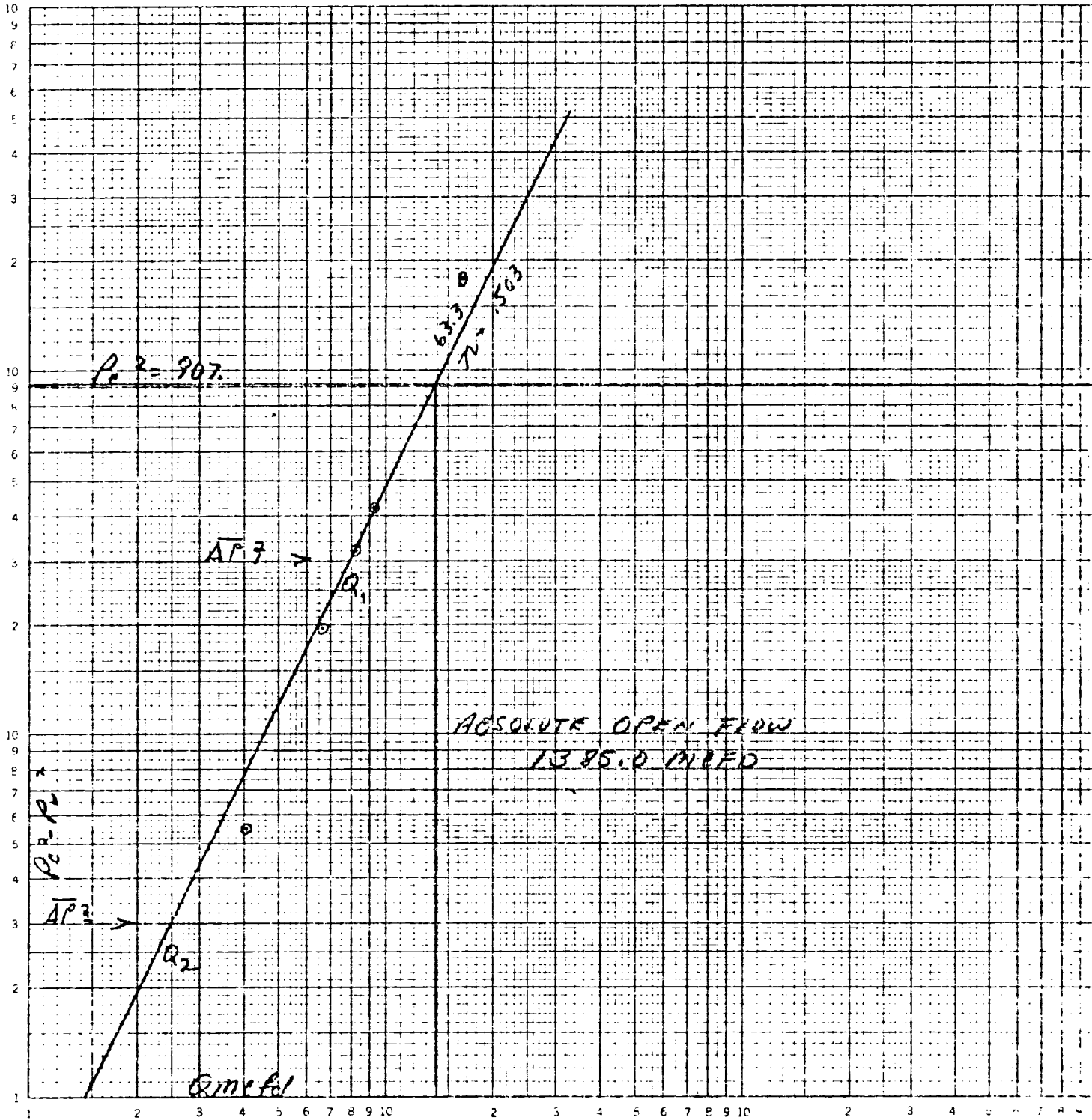
Designed By: BENNETT	Calculated By: BENNETT-CATHEY	Checked By:
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WELL No 2
UNIT C, S 20, T55, R 25E
Chaves County

10-4-82

46 7400

K&S LOGARITHMIC 3 X 3 CYCLES
KEUFEL & ESSER CO. MADE IN U.S.A.



$$\Delta P_1 \quad P_c^2 - P_w^2 = 300$$

$$\Delta P_2 \quad P_c^2 - P_w^2 = 30$$

$$Q_1 = 790. \text{ mcf/d}$$

$$Q_2 = 248. \text{ mcf/d}$$

$$\log Q_1 = 2.8976$$

$$\log Q_2 = 2.3946$$

$$\frac{72}{1385} = .0503$$

NEW-TEX LAB

PHONE 505/393-3561

P. O. BOX 1161

611 W. SNYDER

HOBBS, NEW MEXICO 88240

ANALYSIS CERTIFICATE

CLIENT: BENNETT & CATHEY
ADDRESS: BOX 787
CITY, STATE: ARTESIA NM 88210

ANALYSIS NUMBER: 8614
DATE OF RUN: 11/05/82
DATE SECURED: 11/04/82

SAMPLE IDENT: DEPOO - ROSE FEDERAL #2
SAMPLING PRESS: SAMPLING TEMP:

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

	MOLE PERCENT	GAL/ MCF
NITROGEN	0.343	
CARBON DIOXIDE	0.392	
METHANE	81.302	
ETHANE	4.877	1.321
PROPANE	1.050	2.517
ISOBUTANE	2.316	2.126
NORMAL BUTANE	0.679	2.213
ISOPENTANE	2.114	2.272
NORMAL PENTANE	0.233	0.034
HEXANE	0.167	2.069
HEPTANES PLUS	0.086	0.040
TOTAL	122.000	2.423

IMPACT GPM: 0.52 BUTANES GPM: 0.32
ETHANE GPM: 1.00 PENTANES PLUS GPM: 0.17

SPECIFIC GRAV (CALO): 0.6733
MOLE WEIGHT: 19.51

WATER VAPOR	PRESSURE (PSIA)	WET	DRY
14.675		1026	1024
14.652		1023	1020
14.732		1028	1026
14.735		1028	1026

ANALYZED BY: J. HAMILTON

APPROVED BY: *Keith Thompson*