NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOI AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-

RECEIVED c/SF File

JAN 28 1983

O. C. D.
ARTESIA, OFFICE

Type Test: [X] Initial FOUR POINT [ ] Annual [ ] Special				Test Date: 1-2[illegible]-83	
Company: DEPCO Inc.	Connection: AIR NEW WELL				
Pool: PECOS SLOPE ~~H-D~~ ABO	Formation: ABO			Unit:	
Completion Date: 1-18-83	Total Depth: 4280.	Plug Back T.D.: 4191.		Elevation: 3801.	Farm or Lease Name: ROSE COM
Csg. Size: 4.500	Wt.: 0.	d: 0.	Set At: ~~4279~~ 4	Perforations: From 3713. To 4102.	Well No.: 11
Tbg. Size: 2.375	Wt.: 4.7	d: 1.995	Set At: ~~3637~~ 3635.	Perforations: From 0. To 0.	Unit: A Sec.: 21 Twp.: 5S Rge.: 25E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE			Packer Set At: 0.		County: CHAVES
Producing Thru: TUBING	Reservoir Temp. °F: 103.[illegible] 3907.	Mean Annual Temp. °F: 60.0	Baro. Press. – P_a: 13.2		State: NEW MEXICO
L: 3907.	H: 3907.	Og: 0.660	% CO_2: 1.22	% N_2: 6.71	% H_2S: 0.
Prover: 0.	Meter Run: 2.1	Taps: FLANGE			

	FLOW DATA				TUBING DATA		B.H.P. DATA		
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.	CHOKE	Duration of Flow
SI					910		1014.		72.7
1	2.07 X 1.250	480.	10.0	0.	879	40	1006	15/64	1.0
2	2.07 X 1.250	535.	14.0	0.	850	44	969	18/64	1.0
3	2.07 X 1.250	560.	35.0	0.	790	49	930	20/64	1.0
4	2.07 X 1.250	550.	60.0	0.	710	49	862	20/64	1.0
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, Mcfd
1	8.12	70.23	493.2	1.0632	1.2309	1.0692	798.
2	8.12	87.61	548.2	1.0632	1.2309	1.0779	1004.
3	8.12	141.64	573.2	1.0632	1.2309	1.0819	1629.
4	8.12	183.83	563.2	1.0632	1.2309	1.0803	2110.
5							

NO	P_t	Temp. °R	T_f	Z
1	0.74	460.	1.29	0.875
2	0.83	460.	1.29	0.861
3	0.86	460.	1.29	0.854
4	0.85	460.	1.29	0.857
5				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas 0.660 XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 663. P.S.I.A. P.S.I.A.
Critical Temperature 357. R R

P_c 926.7 P_c^2 859.

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	1039.	920.	846.	13.
2	965.	887.	786.	73.
3	890.	852.	726.	133.
4	766.	791.	626.	233.
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.6867$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.2780$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4806.$

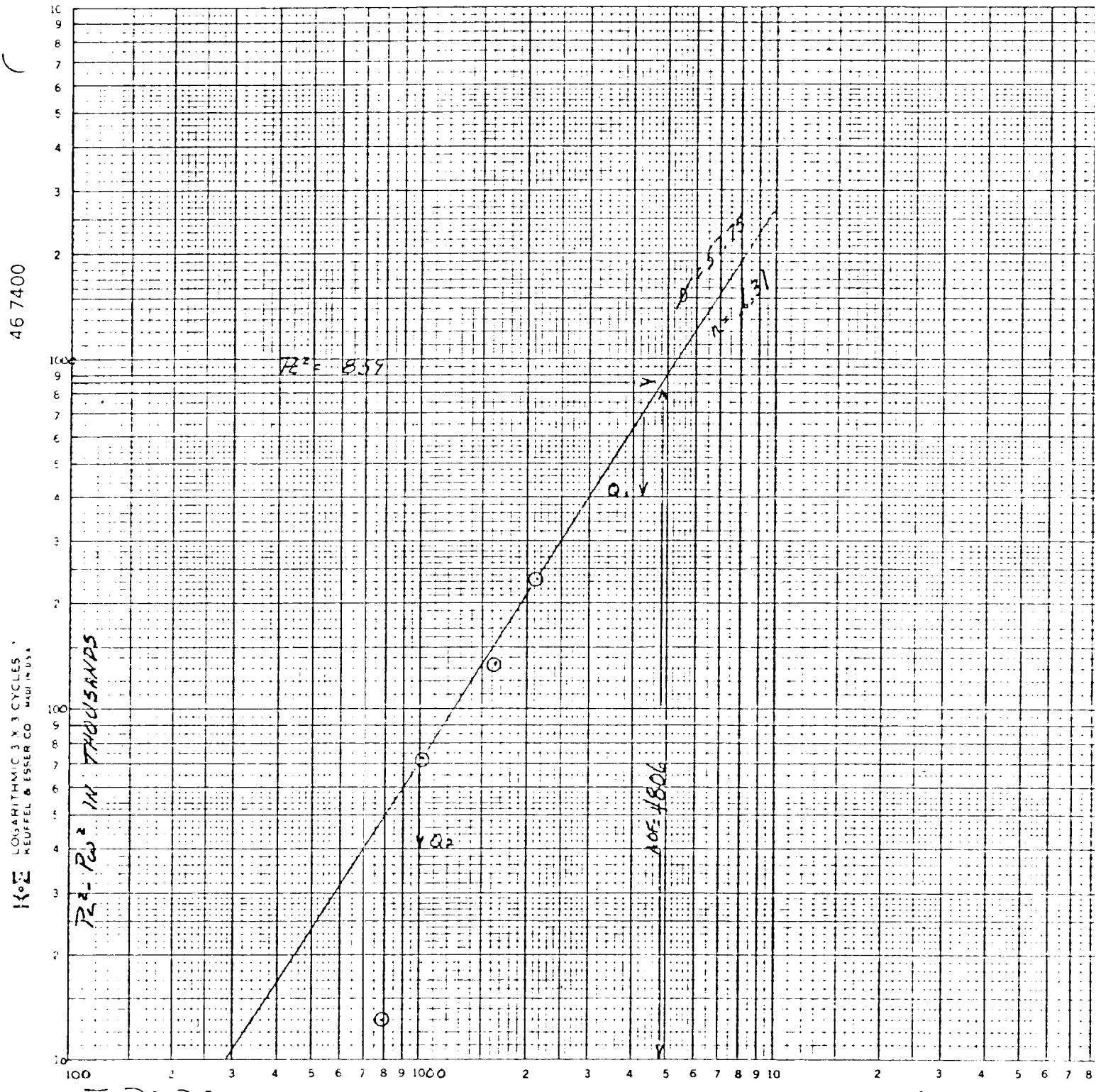
Post FD-2
1-4-83
temp + BK

Absolute Open Flow 4806. Mcfd @ 15.025 Angle of Slope θ 63.3 Slope, n 0.503

Remarks: BOTTOM HOLE PRESSURE MEASURED WITH AMERADA PRESSURE ELEMENTS.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	RICHARD TOWNLEY	BENNETT & CATHEY	

ROSE COM #11
21 5S 25E
CHAVES COUNTY
1-21-83



$\overline{\Delta P}^2$; $P_a^2 - P_w^2 = 700$

$\overline{\Delta P}^2$; $P_c^2 - P_w^2 = 70$

$Q_1 = 4676$

$Q_2 = 1000$

LOG $Q_1 = 3.6310$

LOG $Q_2 = 3.0000$

$n = 0.631$