Copy to SF
C-122

Form C-122
Revised 9-1-65

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

RECEIVED
JAN 13 1975
O. C. C.
ARTESIA, OFFICE

Type Test: [x] Initial [ ] Annual [ ] Special			Test Date: 1-6-75	
Company: Atlantic Richfield Company	Connection: El Paso Natural Gas Company			
Pool: Undesignated	Formation: Morrow			
Completion Date: 6-23-74	Total Depth: 11,130	Plug Back TD: 11,075	Elevation: DF 3239	Farm or Lease Name: St. BQ Com.
Csg. Size: 5½ / Wt.: 17 / d: 4.892 / Set At: 11,130	Perforations: From 10,775 To 10,830			Well No.: 1
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: 1.995 / Set At: 10,666	Perforations: From open To end			Unit: F / Sec.: 9 / Twp.: 21 S / Rge.: 26E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 10,666		County: Eddy
Producing Thru: Tbg.	Reservoir Temp. °F: 182 @ 10,806	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
10666	10666	.585	---	---	---	---	4.11	Flg.

NO.	Prover Line Size	X	Orifice Size	FLOW DATA Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA Press. p.s.i.g.	Temp. °F	CASING DATA Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							3528		Pkr.		96 Hrs.
1.	4	x	2.00	703	9.0	73	3320				1 hr.
2.	4	x	2.00	712	22.1	73	3052				1 hr.
3.	4	x	2.00	690	36.0	74	2794				1 hr.
4.	4	x	2.00	723	60.1	72	2300				1 hr.
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	19.81	80.29	716.2	.9877	1.307	1.055	2166
2.	19.81	126.60	725.2	.9877	1.307	1.056	3419
3.	19.81	159.11	703.2	.9868	1.307	1.055	4289
4.	19.81	210.35	736.2	.9887	1.307	1.058	5697
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	1.07	533	1.51	.898
2.	1.08	533	1.51	.897
3.	1.05	534	1.51	.898
4.	1.10	532	1.50	.893
5.				

Gas Liquid Hydrocarbon Ratio: dry Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Deg.
Specific Gravity Separator Gas: .585 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 672 P.S.I.A. 672 P.S.I.A.
Critical Temperature: 354 R 354 R

P_c 3541.2 P_c^2 12,540.10

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		3357.7	11274.2	1265.9
2		3127.0	9778.1	2762.0
3		2909.7	8466.4	4073.7
4		2518.7	6343.8	6196.2
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.024$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.543$

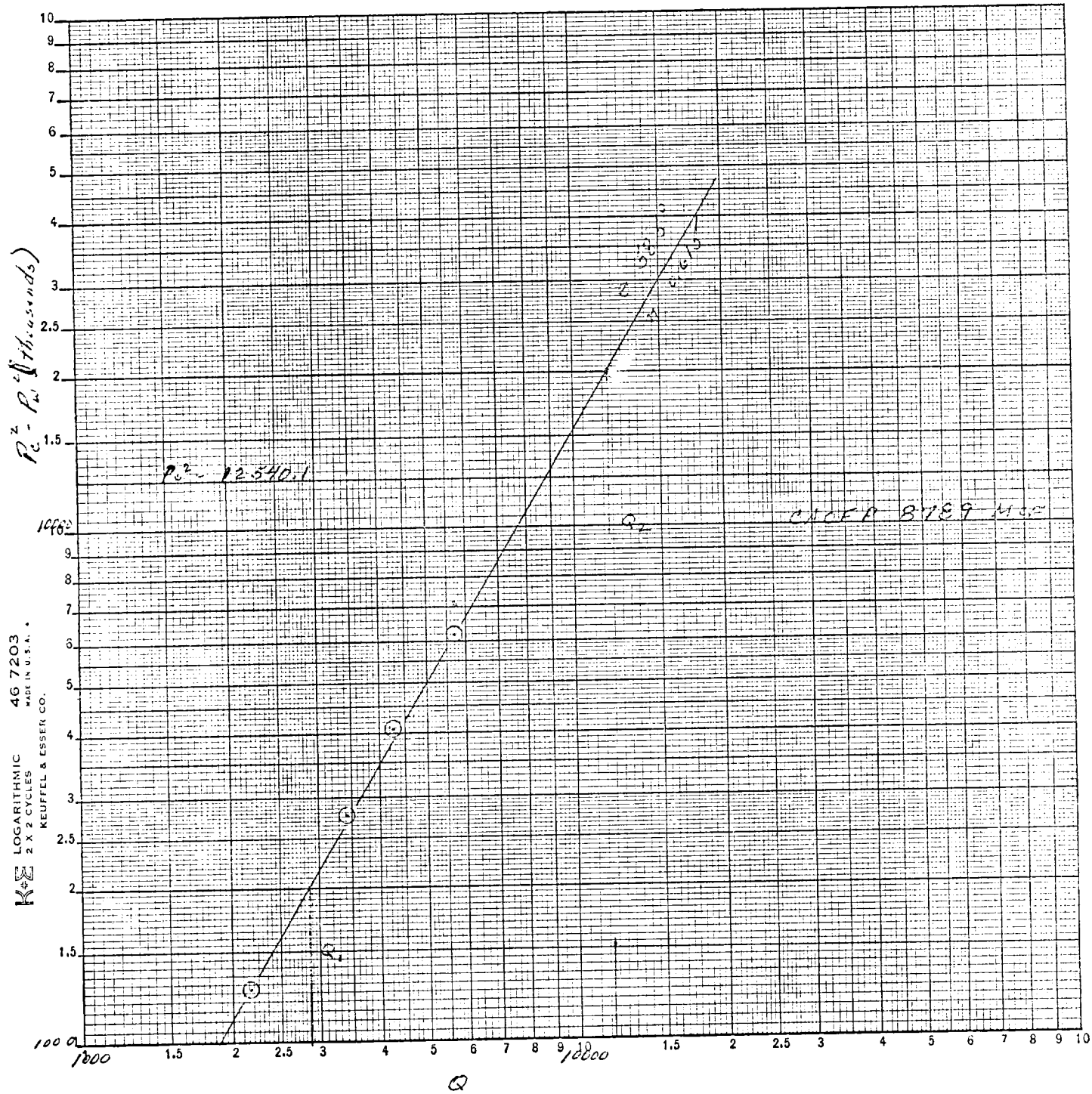
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 8.789$

Absolute Open Flow: 8,789 Mcfd @ 15.025 Angle of Slope θ: 58.5° Slope, n: .615

Remarks: No fluid made during test.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Rick Pagan	Rick Pagan	L. C. Hudry

ATLANTIC RICHFIELD
STATE BQ COM. #1
EDDY COUNTY
F-9-215-26E
1-6-75



Q_2 - Log 11750 = 4.070038
Q_1 - Log 2850 = 3.454845

n = 0.615193
= 0.615