NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
DEC 14 1972
O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 10/18/72	
Company: McClellan Oil Corporation			Connection: None		
Pool: Haystack Cisco			Formation: Cisco		Unit
Completion Date: 10/14/72	Total Depth: 6520		Plug Back TD: 6000	Elevation: 4090 GR	Farm or Lease Name: Bar J Federal
Csg. Size: 5 1/2 / Wt.: 14.0# / d: 5.012 / Set At: 6520			Perforations: From 5938 To 5948		Well No.: 2
Tbg. Size: 2 7/8 / Wt.: 6.5 / d: 2.441 / Set At: 5900			Perforations: From Open end To		Unit: C / Sec.: 15 / Twp.: 6S / Rge.: 27E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 5796		County: Chaves
Producing Thru: Tubing	Reservoir Temp. °F: 112 @ 5900		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
5900	5900	.692	-	-	-		X	Flange

	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.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI						1771				72
1.	3	x 1.250	670	14	90	728	74			1
2.	3	x 1.250	690	9.0	92	1003	74			1
3.	3	x 1.250	720	6.0	94	1174	74			1
4.	3	x 1.250	730	4.4	96	1226	74			1
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	7.577	97.80	683.2	.9723	1.202	1.067	924
2.	7.577	79.55	703.2	.9706	1.202	1.069	752
3.	7.577	66.33	733.2	.9688	1.202	1.071	627
4.	7.577	57.25	743.2	.9671	1.202	1.071	540
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	1.02	550	1.42	.879
2.	1.05	552	1.42	.875
3.	1.10	554	1.43	.872
4.	1.11	556	1.43	.871
5.				

Gas Liquid Hydrocarbon Ratio TSTM Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons Deg.
Specific Gravity Separator Gas .692 DEC 21 1972 X.XXX
Specific Gravity Flowing Fluid XXXXX U. S. GEOLOGICAL SURVEY ROSWELL, NEW MEXICO
Critical Pressure 669 P.S.I.A. P.S.I.A.
Critical Temperature 388 R R

P_c 1784.2 P_c^2 3183

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		741.2	549	2634
2		1016.2	1033	2150
3		1187.2	1409	1774
4		1239.2	1536	1647
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.208$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.205$

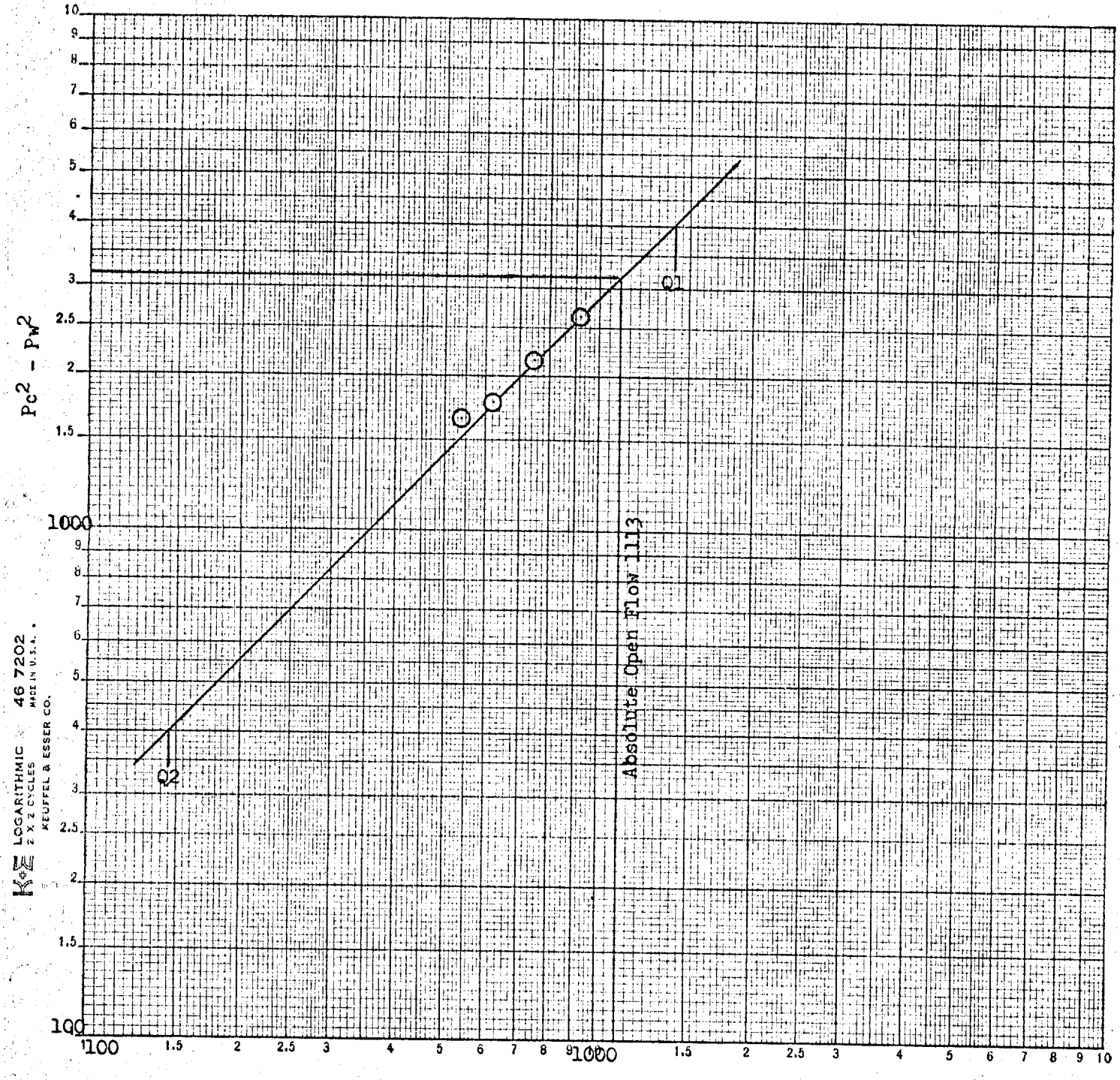
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1113$

Absolute Open Flow 1113 Mcfd @ 15.025 Angle of Slope θ Slope, n .985

Remarks: Friction negligible.
Produced 77 barrels water 4 hours.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Ralph E. Erwin	Donna Holder	

McClel[illegible] Oil Corporation
Bar[illegible] Federal No. 2
Unit C, Sec. 15, T6S, R27E
Chaves County, New Mexico
October 18, 1972



Log Q1 = 3.146128
Log Q2 = 2.161368
0.984760