well file

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

Form C-122
Revised 9-1-65

RECEIVED
JUN 21 1976
O. C. C.
ARTESIA, OFFICE

Type Test: ☐ Initial ☐ Annual ☒ Special			Test Date: 6 -2 -76	
Company: MESA PETROLEUM COMPANY	Connection: TRANSWESTERN Pipeline CO.			
Pool: ~~Wash~~ Wash Draw Morrow ~~UNDESIGNATED~~	Formation: MORROW		Unit	
Completion Date: 4- 21- 76	Total Depth: 13946	Plug Back TD: 13985	Elevation: 3057 D. F.	Farm or Lease Name: NASH ~~DRAW~~ Unit
Csg. Size: 5.00" Wt.: 23.00# d: 1.670" Set At: 13946		Perforations: From 13416 To 13654		Well No.: 2
Tbg. Size: 2.375EUE Wt.: 4.70# d: 1.995" Set At: 13400		Perforations: From To		Unit: F Sec.: 18 Twp.: 18S Rge.: 30E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Dual Completion Gas-Gas		Packer Set At: 13400		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 182	Mean Annual Temp. °F: 13535	Baro. Press. – P_a: 60	State: New Mexico
L: 13535	H: 13535	Gg: 0.571	% CO_2: 0.97	% N_2: 0.00
% H_2S: 0.00	Prover:	Meter Run: X		

	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						4600	60			
1.	4.00	1.88	675	8.00"	90	4200	60			0.50 Hr.
2.	4.00	1.88	675	16.00"	86	4000	60			0.50 Hr.
3.	4.00	1.88	675	31.00"	83	3830	60			0.50 Hr.
4.	4.00	1.88	675	52.00"	76	3550	60			3.00 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	17.26	74.200	688.20	0.9723	1.3234	1.0430	1719
2.	17.26	104.934	688.20	0.9759	1.3234	1.0440	2442
3	17.26	146.062	688.20	0.9786	1.3234	1.0450	3412
4.	17.26	189.173	688.20	0.9850	1.3234	1.0480	4460
5							

NO.	P_t	Temp. °R	T_r	Z
1	1.02	550	1.59	0.899
2.	1.02	546	1.58	0.899
3.	1.02	543	1.57	0.899
4	1.02	536	1.55	0.899
5				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons None Produced Deg.

Specific Gravity Separator Gas	0.571	XXXXXXXXX
Specific Gravity Flowing Fluid	XXXXX	0.571
Critical Pressure	672 P.S.I.A.	672 P.S.I.A.
Critical Temperature	346 R	346 R

P_c = 4613.2 P_c^2 = 21282

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		4228.9	17884	3398
2		4045.2	16364	4918
3		3906.4	15260	6022
4		3673.9	13498	7784
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2}$ = 2.73399 (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 2.7340

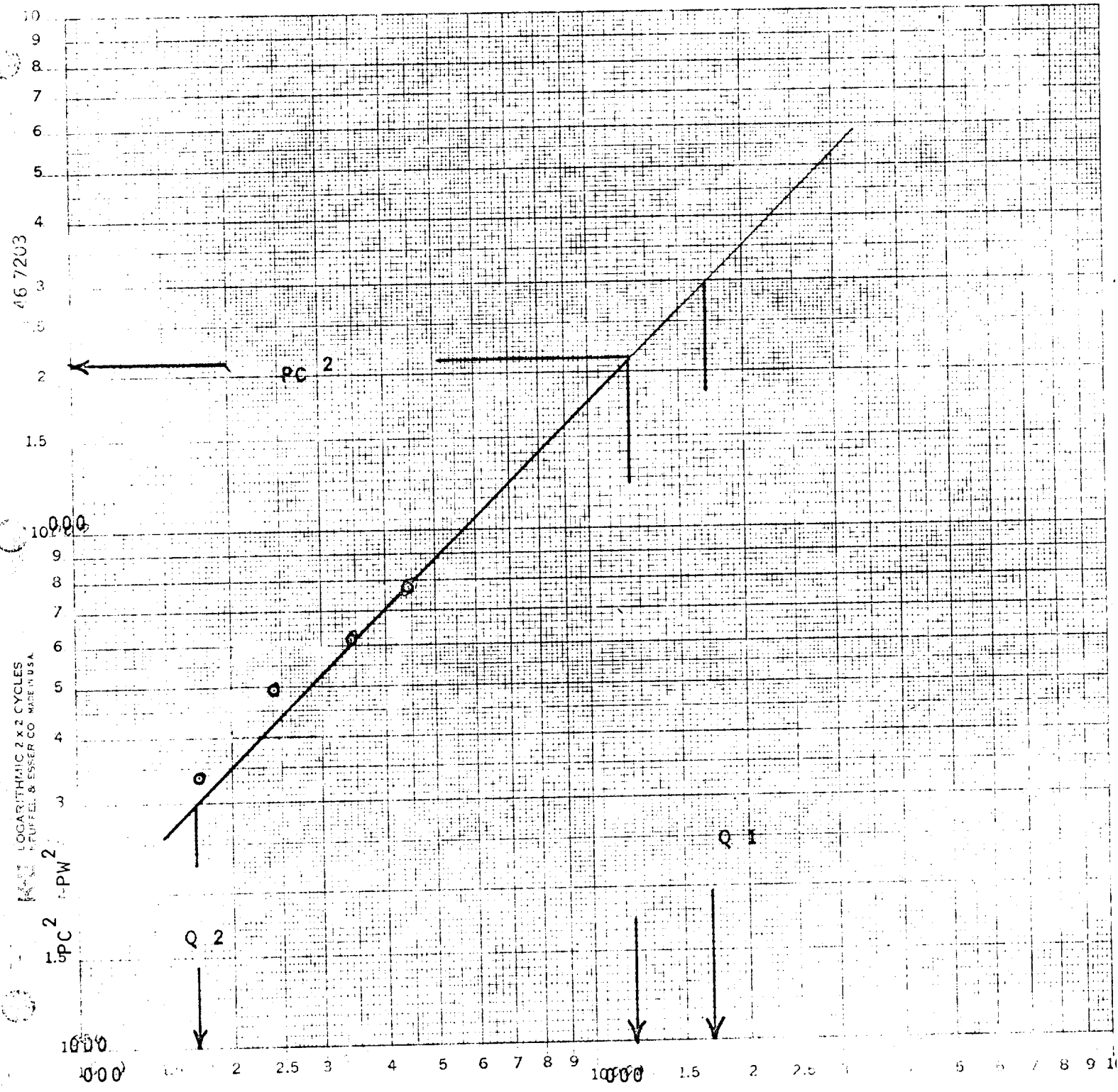
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 12194

Absolute Open Flow 12194 Mcfd @ 15.025 | Angle of Slope θ 45.00 | Slope, n 1.000

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Larry Davis	LARRY Davis	

OPERATOR: MESA PETROLEUM COMPA.
LEASE: MORROW
WELL NO.: 2
COUNTY EDDY
DATE: JUNE 2, 1976



Q IN MCF/DAY

Q1= 17000 MCF LOG Q. 4,23045

Q2= 1700 MCF LOG Q^2 3,23045
1,00000

ABSOLUTE OPEN FLOW 12194 MCF/DAY