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

SF File ✓ Form C-122 Revised 9-1-65

RECEIVED
APR 8 1980
O. C. D.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 3-27-80	
Company: The PETROLEUM CORP. OF DELAWARE			Connection: El Paso Natural Gas Co.		Unit: Parkway West
Pool: ~~Undesignated~~ Parkway West (Morrow)			Formation: Morrow		
Completion Date: 10/6/79	Total Depth: 11,672		Plug Back TD: 11632	Elevation: 3329.2 GL	Farm or Lease Name: Parkway West Unit
Csg. Size: 4 1/2	Wt.: 13.5	d:	Set At: 11,670	Perforations: From 11,298 To 11,476	Well No.: 6
Tbg. Size: 2 3/8	Wt.: 4.7	d:	Set At: 11,020	Perforations: From open To end	Unit: O; Sec.: 21; Twp.: 19; Rge.: 29E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 11,020		County: Eddy
Producing Thru: Tbg.	Reservoir Temp. °F: 186@ 11,268		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
11,268	* 11,268	.633	.66	.61			4"	Flg.

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI							2066				48 hr.
1.	4	x	1.250	505	5.29	71	1990				30 min.
2.	4	x	1.250	505	12.96	71	1898				1 hr.
3.	4	x	1.250	508	20.25	71	1790				1 hr.
4.	4	x	1.250	510	28.09	71	1698				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	7.469	52.36	518.2	.9896	1.257	1.047	509
2	7.469	81.95	518.2	.9896	1.257	1.047	797
3.	7.469	102.73	521.2	.9896	1.257	1.048	1000
4.	7.469	121.23	523.2	.9896	1.257	1.048	1180
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	.77	531	1.44	.912
2.	.77	531	1.44	.912
3.	.78	531	1.44	.910
4.	.78	531	1.44	.910
5.				

Gas Liquid Hydrocarbon Ratio: 134.646 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: 53.3 @ 60 Deg.
Specific Gravity Separator Gas: .633 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX G-mix = .655
Critical Pressure: 670 P.S.I.A. 670 P.S.I.A.
Critical Temperature: 368 R 375 R

P_c 2079.2 P_c^2 4323.1

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		2005.4	4021.6	301.5
2		1916.8	3674.2	648.9
3		1812.6	3285.5	1037.6
4		1725.1	2975.8	1347.3
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.208$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.987$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.345$

Absolute Open Flow: 2,345 Mcfd @ 15.025 Angle of Slope θ: 59.5 Slope, n: .589

Remarks: 1 barrel condensate during test.
* Equivalent length.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Reggie Reston	Reggie Reston.	