MULTIPOINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED
AUG 4 1982
O. C. D.
ARTESIA, OFFICE

[X] Initial [ ] Annual [ ] Special — Test Date: 6-23-82

Company: THE PETROLEUM CORP. OF DELAWARE	Connection: EL PASO NATURAL GAS COMPANY		Unit:
Pool: East Burton Flat	Formation: Morrow		
Completion Date: 4-1-82	Total Depth: 11,600	Plug Back TD: 11,559	Elevation:
Farm or Lease Name: Superior			
Csg. Size: 4½ / Wt.: 12.70 / d: 3.958 / Set At: 10,600	Perforations: From 11,177 To 11,314		Well No.: 6
Tbg. Size: 2 3/8 / Wt.: 4.70 / d: 1.995 / Set At: 10,753	Perforations: From To		Unit: N / Sec.: 6 / Twp.: 20S / Rge.: 29E
Type Well - Single - Bradenhead - G.C. or G.O. Multiple: Dual	Packer Set At: 10,710		County: Eddy
Producing Thru: Tbg.	Reservoir Temp. °F: 186 @ 11,246	Mean Annual Temp. °F:	Baro. Press. - P_a: State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
11,246	11,246	.626	.8	.38	.08		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	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					2180				
1.	4 X 1.250	371	2.89	90	2032				1 hr.
2.	4 X 1.250	378	6.25	97	1978				1 hr.
3.	4 X 1.250	383	12.25	87	1875				1 hr.
4.	4 X 1.250	393	20.25	83	1763				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	33.32	384.2	.9723	1.264	1.030	315
2.	7.469	49.45	391.2	.9662	1.264	1.029	464
3	7.469	69.67	396.2	.9750	1.264	1.031	661
4.	7.469	90.69	406.2	.9786	1.264	1.035	867
5.							

NO.	P_r	Temp. °R	T_r	Z
1	.57	550	1.51	.943
2.	.58	557	1.53	.945
3.	.59	547	1.50	.940
4.	.61	543	1.49	.933
5				

Gas Liquid Hydrocarbon Ratio: Dry Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Deg.
Specific Gravity Separator Gas: .626 XXXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 671 P.S.I.A. P.S.I.A.
Critical Temperature: 365 R R

P_c 2193.2 P_c^2 4810.1

NO	P_w	P_w^2	$P_c^2 - P_w^2$
1	4182.8	2045.9	4185.9	624.2
2	3964.9	1992.9	3971.5	838.6
3	3565.3	1891.8	3578.8	1231.3
4	3154.9	1782.8	3178.2	1631.9
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2}$ = 2.948 (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 1.692

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 2.334

Absolute Open Flow: 2,334 Mcfd @ 15.025 Angle of Slope θ: 47.5° Slope, n: .916

Remarks: Made no fluid during test.

Approved By Division	Conducted By:	Calculated By:	Checked By:
	EL PASO EXPLORATION CO. Reston & McGowen	EL PASO EXPLORATION CO. Roy McGowen	