C/SF File

NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED BY
MAY 15 1985
O. C. D.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special — Test Date: 4/14/85

Company: PETROLEUM DEVELOPMENT CORP.	Connection: Unconnected		
Pool: Pecos Slope Abo	Formation: Abo		Unit:
Completion Date: 4-14-85	Total Depth: 4125'	Plug Back TD: 4053'	Elevation: 3528'
Farm or Lease Name: Fitzgerald #1			
Csg. Size: 4 1/2" / Wt.: 9.5# / d: / Set At: 4088	Perforations: From 3852 To 3860 / From 3542 To 3558		Well No.: 1
Tbg. Size: 2 3/8" / Wt.: 4.7# / d: / Set At: 3771'	Perforations: From Open Ended To		Unit: B / Sec.: 6 / Twp.: 11S / Rge.: 25E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single	Packer Set At: -		County: Chaves
Producing Thru: Tubing	Reservoir Temp. °F: 103° @ 4050'	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
		0.65	0.03	8.8				

	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					1032				24 hr. SI
1.	20/64" choke				302		436		24 hr.
2.									
3.									
4.									
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							730
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_f	Z
1				
2.				
3.				
4.				
5				

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

P_c _____ P_c^2 _____

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1				
2				
3				
4				
5				

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

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ 730

Post ID-2
5-24-85
Comp + BK

Absolute Open Flow 730 Mcfd @ 15.025 — Angle of Slope θ _____ — Slope, n _____

Remarks: 24 hour Flow test on 20/64" choke. Tubing Pressure stabilized @ 302 psi.

Approved By Commission:	Conducted By:	Calculated By:	Checked By: