NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
JUL 12 1978
O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special — Test Date: 5-12-78

Company: BLACK RIVER CORPORATION	Connection: EL PASO NATURAL GAS CO.		Unit
Pool: SOUTH CARLSBAD	Formation: MORROW		
Completion Date: 3-7-78	Total Depth: 11,842'	Plug Back T.D.: 11,765'	Elevation: 3138.8 GR.
Farm or Lease Name: BRC MADERA			
Csg. Size: 7 5/8" & 5" LINER	Wt.: 29.70# & 18.00#	d: 6.875" & 4.276"	Set At: 11,311' & 10,056-11842'
Perforations: From 11,697' To 11,706'			Well No.: 1
Tbg. Size: 2 3/8"	Wt.: 4.6#	d: 1.995"	Set At: 11,708'
Perforations: From OPEN ENDED			Unit: B — Sec.: 29 — Twp.: 22S — Rge.: 27E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE		Packer Set At: 11,617'	County: EDDY
Producing Thru: TUBING	Reservoir Temp. °F: [illegible]	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2
State: NEW MEXICO			

H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
	0.582					4"	FLANGE

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	4"	X	1.000"								
1.							480				24 HRS
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	4.753	178.3	493.2	1.000	1.311		1,111
2							
3							
4							
5							

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

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas 0.582 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

NO.	P_c	P_c^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) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ _____

Open Flow $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ _____

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

Remarks: THE 24 HOUR FLOW TEST WAS CONDUCTED IN LIEU OF THE CONVENTIONAL 4-POINT TEST. IT WAS FEARED SHUTING THE WELL IN WOULD CAUSE IT TO LOG OFF AND NOT COME BACK.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	B.J.T.	M.C.T.	J.W.W.

ILLEGIBLE