NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT / ONE POINT BACK PRESSURE TES FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 10-19-79	
Company: Black River Corporation		Connection: El Paso Natural Gas Company		
Pool: Jalmat		Formation: Jalmat - Yates		Unit: J
Completion Date: 7-26-79	Total Depth: 3610	Plug Back TD: 3577	Elevation: 3392.5 GL	Farm or Lease Name: El Paso State
Csg. Size: 5½ / Wt.: 15.5 / d: / Set At: 3610		Perforations: From 3045 To 3538		Well No.: 1
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: / Set At: 3528		Perforations: From open To ended		Unit: J / Sec.: 22 / Twp.: 23 / Rge.: 36
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: None		County: Lea
Producing Thru: Tubing	Reservoir Temp. °F: a	Mean Annual Temp. °F:	Baro. Press. – P_a: 13.2	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
3528	3528	.686					4"	Flg.

NO.	FLOW DATA: Prover Line Size x Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					161	74	161	74	72 hrs.
1.	4 x 1.250	23	6.25	82	159	81	159	81	30 Min.
2.	4 x 1.250	24	12.25	76	154	79	156	79	45 Min.
3.	4 x 1.250	25	25.0	75	150	78	153	78	45 Min.
4.	4 x 1.250	27	56.25	74	145	78	149	78	30 Min.
5.	4 x 1.250	28	90.25	73	136	77	144	77	30 Min.

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	15.04	36.2	.9795	1.207	Nil	133
2	7.469	21.35	37.2	.9850	1.207	Nil	190
3	7.469	30.90	38.2	.9859	1.207	Nil	275
4	7.469	47.55	40.2	.9868	1.207	Nil	423
5	7.469	60.98	41.2	.9877	1.207	Nil	543

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

Gas Liquid Hydrocarbon Ratio: No fluid Mcf/bbl.

A.P.I. Gravity of Liquid Hydrocarbons: None Deg.

Specific Gravity Separator Gas: .686 XXXXXXXXXX

Specific Gravity Flowing Fluid: XXXXX

Critical Pressure: ____ P.S.I.A. ____ P.S.I.A.

Critical Temperature: ____ R ____ R

P_c 174.2 P_c^2 30.35

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		172.2	29.25	.70
2		169.2	28.63	1.72
3		166.2	27.62	2.73
4		162.2	26.31	4.04
5		157.2	24.71	5.64

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.381$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4.873$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.646$

Absolute Open Flow: 2,646 Mcfd @ 15.025 Angle of Slope θ: 46.75 Slope, n: .941

Remarks: No liquid measured during test.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Kiker - McMurrain	T. R. Kiker	