STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

RECEIVED
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O. C. D.
ARTESIA, OFFICE

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 05-18-91	
Company: W. A. Moncrief		Connection:			
Pool: Morley Canyon Strawn		Formation: Strawn		Unit:	
Completion Date: 09-10-90	Total Depth: 10630	Plug Back TD: 10165	Elevation: 4170 KB	Farm or Lease Name: Marathon State	
Csg. Size: 4½ / Wt.: 11.6 / d: / Set At: 10630		Perforations: From 9366 To 9432		Well No.: 1	
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: 1.995 / Set At: 9175		Perforations: From To		Unit: J / Sec.: 11 / Twp.: 24 / Rge.: 24	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 9175		County: Eddy	
Producing Thru: Tubing	Reservoir Temp. °F:	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2	State: New Mexico	

L	H	G_g	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
9175	9175	.596	.42	.56			4.030	Flange

	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						2500		PKR		72 hrs.
1.	4	X 1.000	643	10.24	65	780		PKR		24 hrs.
2.	4	X 1.000	436	16.81	67	550		PKR		5 hrs.
3.	4	X 1.000	410	17.64	68	510		PKR		10 hrs.
4.	4	X 1.000	397	16.81	66	455		PKR		4 hrs.
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	81.97	656.2	.9952	1.295	1.052	528
2.	4.753	86.90	449.2	.9933	1.295	1.035	550
3.	4.753	86.40	423.2	.9924	1.295	1.033	545
4.	4.753	83.04	410.2	.9943	1.295	1.033	525
5.							

NO.	P_t	Temp. °R	T_t	Z
1.	.97	525	1.48	.904
2.	.66	527	1.48	.934
3.	.62	528	1.49	.937
4.	.61	526	1.48	.938
5.				

Gas Liquid Hydrocarbon Ratio: DRY GAS Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: DRY Deg.
Specific Gravity Separator Gas: .596 XXXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 672 P.S.I.A. ____ P.S.I.A.
Critical Temperature: 354 R ____ R

P_c 2513.2 P_c^2 6316.2

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		798.3	637.2	5678.9
2		571.2	326.2	5990.0
3		531.6	282.6	6033.5
4		477.0	227.5	6088.6
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.054$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.054$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = .580$

Absolute Open Flow: 580 Mcfd @ 15.025 Angle of Slope θ: 45 Slope, n: 1.000

Remarks: NO FLUID PRODUCED

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Pro Well Testers	BM	BM