STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

Form C-122
Revised 10-1-78

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MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 10-19-89	NOV 6 '89
Company: Amoco Production Company ✓			Connection: EPNG		O. C. D.
Pool: Mosley Canyon			Formation: Strawn		Unit: ARTESIA, OFFICE
Completion Date: 10-2-89	Total Depth: 10950		Plug Back TD: 10595	Elevation: 4022.2' GL	Farm or Lease Name: State "IC" Com.
Csg. Size: 5 1/2	Wt.: 15.5	d: 4.950"	Set At: 10944	Perforations: From 9468 To 9770	Well No.: 1
Tbg. Size: 2 3/8	Wt.: 4.7	d: 1.995"	Set At: 9362	Perforations: From Open To End	Unit: C; Sec.: 7; Twp.: 24S; Rge.: 25E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 9360		County: Eddy
Producing Thru: Tbg.	Reservoir Temp. °F: 169 @ 9468		Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2	State: NM
L: 9468	H: 9468	Gg: .662	% CO_2: .20	% N_2: .77	% H_2S: --
Prover:	Meter Run: 4.026	Taps: 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						2350		Pkr.		24 Hrs.
1.	4	X .500		6.3	64	2162		Pkr.		1 Hr.
2.	4	X .500		32.5	65	1907		Pkr.		1 Hr.
3.	4	X .500		53.3	68	1660		Pkr.		1 Hr.
4.	4	X .500		72.3	69	1430		Pkr.		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	1.182	56.36	504.2	.9962	1.229	1.055	86
2.	1.182	128.01	504.2	.9952	1.229	1.055	195
3.	1.182	163.93	504.2	.9924	1.229	1.051	248
4.	1.182	190.92	504.2	.9915	1.229	1.051	289
5.							

NO.	P_t	Temp. °R	T_t	Z
1.	.75	524	1.39	.899
2.	.75	525	1.39	.899
3.	.75	528	1.40	.905
4.	.75	529	1.40	.905
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 63.7 @ 60° Deg.
Specific Gravity Separator Gas .662 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX 6 Mix = .741
Critical Pressure 670 P.S.I.A. 667 P.S.I.A.
Critical Temperature 378 R 405 R

P_c 2363.2 P_c^2 5584.7

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		2175.2	4731.7	853.0
2		1920.5	3688.2	1896.5
3		1623.7	2801.3	2783.4
4		1444.0	2085.2	3499.5
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.596$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.337$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = .386$

Absolute Open Flow 386 Mcfd @ 15.025 Angle of Slope θ 58.3 Slope, n .621

Remarks: Well made 2.0 Bbls. 63.7 API Condensate during test

Approved By Division	Conducted By:	Calculated By:	Checked By:
	John West Engineering	JBM	JBM