STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

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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: 3/28/86

Company: Exxon Co. U.S.A.	Connection: None		
Pool:	Formation: Morrow		Unit:
Completion Date: 3/24/86	Total Depth: 11,914	Plug Back TD: 11,720	Elevation: 3248
Farm or Lease Name: New Mexico State E.U.			
Csg. Size: 5 / Wt.: 15 & 18 / d: / Set At: 11,906	Perforations: From 11,344 To 11,559		Well No.: 1
Tbg. Size: 2 7/8 / Wt.: 6.5 / d: 2,441 / Set At: 11,100	Perforations: From Open To End		Unit: K J / Sec.: 26 / Twp.: 23S / Rge.: 26E
Type Well – Single – Bradenhead – G.C. or G.O. Multiple: Single	Packer Set At: 11,100		County: Eddy
Producing Thru: Tbg.	Reservoir Temp. °F: 185 @ 11,100	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
11,100	11,100	.577	1.118	.182			3.826	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					3815				
1.	3.826 X 1.500	480	10	88	3529				1 Hr.
2.	3.826 X 1.500	480	21	80	3415				1 Hr.
3.	3.826 X 1.500	480	33	93	3309				1 Hr.
4.	3.826 X 1.500	480	47	95	3182				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	10.88	70.23	493.2	.9741	1.316	1.033	1012
2.	10.88	101.77	493.2	.9813	1.316	1.034	1479
3.	10.88	127.58	493.2	.9697	1.316	1.031	1826
4.	10.88	152.25	493.2	.9680	1.316	1.031	2176
5.							

NO.	P_t	Temp. °R	T_f	Z
1	.73	548	1.57	.938
2.	.73	540	1.55	.935
3.	.73	553	1.55	.940
4.	.73	555	1.55	.941
5.				

Gas Liquid Hydrocarbon Ratio: Dry Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Deg.
Specific Gravity Separator Gas: .577 XXXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 676 P.S.I.A. P.S.I.A.
Critical Temperature: 349 R R

P_c 3828.2 P_c^2 14655.1

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		3544.6	12564.2	2090.9
2		3485.7	12150.1	2505.0
3		3331.6	11099.6	3555.5
4		3204.0	10265.6	4389.5
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.339$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3.339$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 7.265$

Absolute Open Flow: 7,265 Mcfd @ 15.025 — Angle of Slope θ: 45 — Slope, n: 1.00

Remarks: Made no fluid during test.

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Duke Services, Inc.	R. Reston	