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See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Operator EXXON CO. U.S.A.						Lease or Unit Name A. J. ADKINS					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 12-31-94		Well No. 2			
Completion Date 12-6-94		Total Depth 3675		Plug Back TD 3305		Elevation		Unit Ltr. - Sec. - TWP - Rge. F 10-21S-36E			
Csg. Size	Wt.	d	Set At	Perforations:				County			
5 1/2	14#	5.012	3675	From: 3020 To: 3280				Lea			
Tbg. Size	Wt.	d	Set At	Perforations:				Pool			
2-3/8	4.7#	1.995	2947	From: To:							
Type Well - Single - Bradenhead - G.G. or G.O. Multiple single						Packer Set At 2947		Formation QUEEN, SEVEN RIVERS			
Producing Thru TBG		Reservoir Temp. °F 90° @ 3020		Mean Annual Temp. °F 60°		Baro. Press - P _s 13.2		Connection AIR			
L 3020	H 3020	Gg .676	% CO ₂ .50	% N ₂ 4.03	% H ₂ S	Prover		Meter Run 4.026		Taps FLG.	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	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	
SI						470				
1.	4.026 X 2.750	33.04	4	46	445			PKR.		30 min.
2.	4.026 X 2.750	37.21	9	44	420					30 min
3.	4.026 X 2.750	38.64	11.56	49	397					30 min
4.	4.026 X 2.750	41.56	16	49	375					30 min
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, F _{pv}	Rate of Flow Q, Mcfd
1.	41.10	13.60	46.24	1.014	1.216	1.005	693
2.	41.10	21.30	50.41	1.016	1.216	1.006	1088
3.	41.10	24.48	51.84	1.011	1.216	1.007	1246
4.	41.10	29.60	54.76	1.011	1.216	1.007	1506
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	.07	506	1.36	.990	DRY GAS	
2.	.08	504	1.36	.988	A.P. I. Gravity of Liquid Hydrocarbons DRY	Deg.
3.	.08	509	1.37	.987	Specific Gravity Separator Gas .676	XXXXXXXXXX
4.	.08	509	1.37	.986	Specific Gravity Flowing Fluid DRY	XXXXXX
5.					Critical Pressure *662 P.S.I.A.	P.S.I.A.
					Critical Temperature *371 R	R

P _c 483.2		P _c ² 233.5	
NO.	P _t ²	P _w	P _w ²
1.	209.9	464.0	215.3
2.	187.7	448.3	201.0
3.	168.3	431.0	185.8
4.	150.7	420.0	176.4
5.			

$$1) \frac{P_c^2}{P_c^2 - P_w^2} = 4.091$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.086$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.713$$

Absolute Open Flow 4,086	Mcf/d @ 15.025	Angle of Slope θ 55°	Slope, n .70852
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Remarks: **NO FLUID MADE DURING TEST**

*** CORRECTED TO 4% N²**

Approved By Division
ORIGINAL SIGNED BY JERRY SEXTON
DISTRICT SUPERVISOR

Conducted By:
PRO WELL TESTERS

Calculated By:
KS

Checked By:
BM

JAN 10 1995

RECEIVED

JAN 9 9 1995

W. D. HOBBS.
OFFICE