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NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: May 7. 1975	
Company: Morris R. Antweil	Connection: EPNG			
Pool: Avalon Grayburg	Formation: Strawn			Unit: J
Completion Date: 5-7-75	Total Depth: 11,000	Plug Back TD: 9985	Elevation: 3190 GR	Farm or Lease Name: Western Res. Fed.
Csg. Size: 5 1/2 / Wt.: 17 / d: / Set At: 11,000		Perforations: From 9805 To 9840		Well No.: 2
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: 1.995 / Set At: 9752		Perforations: From To		Unit: J / Sec.: 4 / Twp.: 21S / Rge.: 26E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 9752		County: Eddy
Producing Thru: TBG.	Reservoir Temp. °F: 172 @ 9752	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
9752	9752	.650	.49	.88	.02Gr.		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					2805		S.I.P.		72 Hr.
1.	4 X 1.250		5.3	104	2689				
2.	4 X 1.250		9.6	86	2601				
3.	4 X 1.250		13.3	68	2517				
4.	4 X 1.250		30.8	77	2395				
5.	4 X 1.250		81.9	80	2162				

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	49.87	469.2	.9602	1.240	1.037	460
2.	7.469	67.11	469.2	.9759	1.240	1.041	631
3.	7.469	79.33	473.2	.9924	1.240	1.047	763
4.	7.469	121.11	476.2	.9840	1.240	1.045	1153
5.	7.469	197.5	476.2	.9813	1.240	1.044	1874

NO.	P_r	Temp. °R	T_r	Z
1	.70	564	1.50	.930
2.	.70	546	1.46	.922
3.	.71	528	1.41	.912
4.	.71	537	1.43	.916
5.	.71	540	1.44	.918

Gas Liquid Hydrocarbon Ratio: 16.5 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: 58.7 @ 60 Deg.
Specific Gravity Separator Gas: XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX GMIX .817
Critical Pressure: 670 P.S.I.A. ____ P.S.I.A.
Critical Temperature: 375 R ____ R

P_c 2818.2 P_c^2 7942.3

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		2703.4	7308.4	633.9
2		2616.7	6847.1	1095.2
3		2533.5	6418.6	1523.7
4		2415.9	5836.6	2105.7
5		2197.5	4829.0	3113.3

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.551$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.551$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4.781$

Absolute Open Flow: 4,781 Mcfd @ 15.025 | Angle of Slope θ: 45 | Slope, n: 1.000

Remarks: Well made 12.3 BBLs cond. during test period.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Reggie Reston	Reggie Reston	