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File

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

RECEIVED
C-122
dated 9-1-65

MAY 18 1982

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date May 10, 1982		O. C. D.	
Company David Fasken				Connection Not connected (It will be El Paso Natural Gas Co.)		ARTESIA, OFFICE	
Pool <i>Benton Flat morrow</i> <i>Avalon</i>				Formation Morrow		Unit	
Completion Date March 26, 1982		Total Depth 11,279'		Flying Back TD 11,202'		Elevation 3210' K.B.	
Farm or Lease Name Gulf Federal Com.		Well No. 1		Perforations: From 10,969 To 10,981		Unit Sec. Twp. Rge. C 1 21-S 26-E	
Csg. Size 4 1/2"		Wt. 11.60		d 4.000"		Set At 11,277'	
Thg. Size 2 3/8		Wt. 4.70		d 1.995"		Set At 10,499'	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas				Packer Set At 10,499' K.B.		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 187 @ 11,005'		Mean Annual Temp. °F 70		Baro. Press. - P _a 13.2	
L 10975		H 10975		Gg 0.619		% CO ₂ 1.43	
						% N ₂ 0.30	
						% H ₂ S Nil	
						Prover Pos. Choke	
						Meter Run Taps	
FLOW DATA							
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Duration of Flow
SI	95 Hours			3262			
1.	2" X 5/64"			3125		80	60 mins.
2.	2" X 7/64"			2855		77	60 mins.
3.	2" X 9/64"			2440		80	60 mins.
4.	2" X 11/64"			2035		80	60 mins.
5.							
RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	.0966		3138.2	.9813	1.271	1.124	424.983
2	.1969		2868.2	.9840	1.271	1.140	805.194
3	.3364		2453.2	.9813	1.271	1.143	1170.179
4	.5090		2048.2	.9813	1.271	1.140	1482.321
5							
NO. P _t Temp. °R T _r Z Gas Liquid Hydrocarbon Ratio <u>Nil</u> Mcf/bbl. 1 BHP Measured with Amerada A.P.I. Gravity of Liquid Hydrocarbons _____ Deg. 2 RPG - 3 Gauge No. 50671 Specific Gravity Separator Gas <u>0.619</u> X X X X X X X X 3 0-6000 P.S.I. Range Specific Gravity Flowing Fluid <u>X X X X X</u> _____ 4 _____ Critical Pressure <u>676.5</u> P.S.I.A. _____ P.S.I.A. 5 _____ Critical Temperature <u>361.5</u> R _____ R							
P _f 4260.2 P _s 18149.3 NO. P _t ² P _s ² P _s ² - P _t ² (1) $\frac{P_c^2}{P_c^2 - R_w^2} = 13.735941$ (2) $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 4.815822$ 1 _____ 4102.2 16828.0 1321.3 2 _____ 3768.2 14199.3 3950.0 3 _____ 3271.2 10700.7 7448.6 4 _____ 2837.2 8049.7 10099.6 5 _____ _____ _____ _____ ACF = Q $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 2046.643$							
Absolute Open Flow <u>2046.643</u> Mcfd @ 15.025 Angle of Slope θ <u>59.04°</u> Slope, n <u>0.599961</u> Remarks: _____ Approved By Commission: _____ Conducted By: <u>TEFTELLER, INC.</u> Calculated By: <u>C.M. Avery, Jr.</u> Checked By: _____							

*Post ID-2
5-28-82
Comp + BK*