

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

Form C-122
Revised 9-1-65

RECEIVED

AUG 28 1985

Oil CON. DIV.
DIST. 2

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 8-23-83	
Company El Paso Natural Gas		Connection	
Pool Basin		Formation Dakota	
Completion Date 8-23-85		Total Depth 7767	Plug Back TD 7750
Elevation 6600 GR		Form or Lease Name S.J. 27-5 Unit	
Csg. Size 4.500	Wt. 10.5	Set At 4.052	7767
Perforations: From 7560 To 7726		Well No. #138E	
Teg. Size 1.900	Wt. 2.9	Set At 1.610	7707
Perforations: From To		Unit Sec. Twp. Hgt. N 19 27 05	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At None	County Rio Arriba
Producing Thru Tbg.	Reservoir Temp. °F a	Mean Annual Temp. °F	Baro. Press. - P _a 12
State New Mexico			
L	H	G _g .700	% CO ₂ % N ₂ % H ₂ S Prover Meter Run Taps

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
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
SI			.750				1879		2133	
1.				153		73	153		989	
2.										
3.										
4.										
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	12.365		165	.9877	.9258	1.021	1904
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _r 2145	P _r ² 4601025
NO. 1	P _w 1001 P _w ² 1002001 P _r ² - P _w ² 3599024
2	
3	
4	
5	

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = \frac{4601025}{3599024}$

ACF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2289$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.2022$

Absolute Open Flow 2289	Mcf/d @ 15.025	Angle of Slope @ _____	Slope, n .75
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Remarks: Unloaded water & oil mist...
Gas vented during test = 334 MCF.

Approved by Commission:	Conducted By: Harold Cloer	Calculated By: Cliff Brock	Checked By: kld
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