

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

Form C-122
 Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 8-13-85		AUG 15 1985	
Company El Paso Natural Gas				Connection OIL CON. DIV.			
Pool Aztec				Formation Pictured Cliffs		Unit DIST. 3	
Completion Date 8-13-85		Total Depth 2475		Plug Back TD 2461		Elevation 5941 GR	
Form or Lease Name Murphy D				Well No. # 2			
Csg. Size 2.875	wt. 6.4	d 2.441	Set At	Perforations: From 2267 To 2417		Unit Sec. Twp. Rge. M 27 30 11	
Tubingless Completion				Perforations: From To			
Type Well - Single - Broadhead - G.C. or G.C. Multiple Single				Packer Set At None		County San Juan	
Producing Thru Csg.		Reservoir Temp. °F 67		Mean Annual Temp. °F		Baro. Press. - P _a 12	
State New Mexico							
L	H	G _g .670	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run Taps

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Flow 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
1			.750	30		63			258		7 Days
2									30		3 Hrs.
3											
4											
5											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcf/d
1	12.365		42	.9971	.9465	1.004	492
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 270	P _r ² 72900	
NO.	P _w	P _w ²
1	50	2500
2		
3		
4		
5		

$$(1) \frac{P_r^2}{P_r^2 - P_w^2} = \frac{72900}{70400}$$

$$ACF = Q \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 507$$

$$(2) \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.0301$$

Absolute Open Flow	507	Mcf/d @ 15.025	Angle of Slope °	Slope, n	.85
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Remarks: Med. to heavy mist throughout test. Gas vented during test = 61 MCF.

Approved by Commission:	Conducted By: Bob Haire	Calculated By: Ed Mabe	Checked By: kld
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