

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 7-8-85		JUL 11 1985	
Company El Paso Natural Gas			Connection OIL CO. DIV.		
Pool Aztec			Formation Pictured Cliffs		Unit DIST. 3
Completion Date 7-8-85		Total Depth 5086	Plug Back TD 5072	Elevation 5876 GR	Farm or Lease Name Lackey A
Csg. Size 7.000	Wt. 20	d 6.456	Set At 2723	Perforations: From *2338 To 2447	Well No. #1A
Tq. Size 1.610	wt. 2.4	d 1.380	Set At 2445	Perforations: From To	Unit Sec. Twp. Rge. I 12 29 10
Type Well - Single - Bradenhead - G.C. or G.O. Multiple G.G Dual				Packer Set At 2576	County San Juan
Producing Thru Tbg.		Reservoir Temp. *F a	Mean Annual Temp. *F	Baro. Press. - P _a 12	State New Mexico
L	H	G _g .680	% 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							707		707		7 Days
1.	.750		65			68	65		280		3 Hrs.
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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		77	.9924	.9393	1.008	895
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 719	P _r ² 516961	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{516961}{P_c^2 - P_w^2}$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1656$
NO. 1	P _r 292	P _w ² 85264	P _r ² - P _w ² 431697
2			
3			
4			
5			

$ACF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1043$

$Q = 1043$

Absolute Open Flow 1043	Mcf @ 15.025	Angle of Slope θ _____	Slope, n .85
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Remarks: *4.500" Liner - 2578' - 5086'. Produced light mist of water throughout test. Gas vented during test = 132 MCF.

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