

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

Form C-122
Revised 9-1-65

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Hobbs*

Type Test ☐ Initial ☐ Annual ☒ Special					Test Date 6-10-72					
Company Western Oil Producers, Inc.					Connection El Paso Natural Gas Co.					
Pool Wilson					Formation Devonian					
Completion Date 12-13-71			Total Depth 12625		Plug Back TD 12619		Elevation 3636		Farm or Lease Name State "M"	
Csg. Size 4 1/2	Wt. 13.2	d 3.920	Set At 12624	Perforations: From 12528 To 12566				Well No. 1		
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 12485	Perforations: From To				Unit Sec. Twp. Rge. 32 20S 36E		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At 12485			County Lea		
Producing Thru Tubing		Reservoir Temp. °F 178 12400		Mean Annual Temp. °F 65		Baro. Press. - P _a 13.2		State New Mexico		
L 12547	H 12547	Gg 0.639	% CO ₂ 1.25	% N ₂ 2.07	% H ₂ S 0.23	Prover		Meter Run x	Taps Flange	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. L-10	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							3286				
1.	4"	x	2.750	563	1.2	78	3190	65	Pkr.		30 Min.
2.	4"	x	2.750	563	2.2	64	3066	65	"		30 Min.
3.	4"	x	2.750	578	3.2	50	2869	65	"		30 Min.
4.	4"	x	2.750	578	4.4	50	2663	65	"		30 Min.
5.											

RATE OF FLOW CALCULATIONS								
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Factor L-10	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor Fpv	Rate of Flow Q, Mcfd	
1	41.10	1.2 x 7.5	3.162	0.9831	1.251	1.047	1506.1	
2	41.10	2.2 x 7.5	3.162	0.9962	1.251	1.052	2811.3	
3	41.10	3.2 x 7.6	3.162	1.0100	1.251	1.059	4229.0	
4	41.10	4.4 x 7.6	3.162	1.0100	1.251	1.059	5814.9	
5.								

NO.	P _t	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio	41.104	Mcf/bbl.
1	0.86	538	1.49	0.913	A.P.I. Gravity of Liquid Hydrocarbons	56.7	Deg.
2	0.86	524	1.45	0.904	Specific Gravity Separator Gas	0.639	X X X X X X X X
3	0.88	510	1.41	0.891	Specific Gravity Flowing Fluid	X X X X X	
4	0.88	510	1.41	0.891	Critical Pressure	672	P.S.I.A.
5.					Critical Temperature	361	R

P _f 4580.2 P _f ² 20978				
NO.	P _t ²	P _s	P ₂	P _f ² - P ₂ ²
1		4469.2	19974	10045
2		4347.2	18898	2080
3		4193.2	17583	3395
4		4019.2	16154	4824
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \text{_____}$

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

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

Absolute Open Flow 21000 Mcfd @ 15.025

Angle of Slope @ 49° 12'

Slope, n 0.86332

Remarks: _____

Approved By Commission: <i>[Signature]</i>	Conducted By: Tefteller, Inc	Calculated By: F. Tefteller	Checked By:
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