

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 7-18-77	
Company Western Oil Producers, Inc.				El Paso Natural Gas Co.	
Field E. ...				Unit	
Completion Date 6-2-77		Form Left 11895		Elevation 3126.6 KB	
Casing Size 5 1/2		Set At 11838		Perforations: From 11523 To 11544	
Tubing Size 2 7/8		Set At 11504		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Multiple				Packer Set At 11504	
Flowing Thru Tbg		Reservoir Temp. °F 191 @ 11450		Mean Annual Temp. °F 70	
Baro. Press. - P _a 13.2		County Eddy		State New Mexico	
L 11534	H 11534	G _g 0.576	% CO ₂ .98	% N ₂ .26	% H ₂ S 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. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI				L-10	f. 3.162		3711		Pkr.		65 hrs.
1.	4"	X	2"	6.4	.65	92	3648	70	"		60
2.	4"	X	2"	6.42	1.1	86	3591	70	"		60
3.	4"	X	2"	6.49	2.65	50	3303	70	"		60
4.	4"	X	2"	6.6	5.2	66	2617	70	"		60
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	19.81	13.154	409.5	0.9706	1.318	1.025	341.7
2	19.81	22.330	412.2	0.9759	1.318	1.027	584.3
3	19.81	54.382	421.2	1.010	1.318	1.035	1484.3
4	19.81	108.520	435.6	0.9943	1.318	1.025	2887.7
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	
1	.61	552	1.60	0.951	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.	
2	.61	546	1.58	0.948	Specific Gravity Separator Gas 0.576 XXXXXXXXXX	
3	.62	510	1.48	0.934	Specific Gravity Flowing Fluid XXXXXX	
4	.64	526	1.62	0.952	Critical Pressure 675 P.S.I.A. P.S.I.A.	
5					Critical Temperature 345 R R	

NO.	P _r ²	P _s ²	P _s ² - P _r ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.1006057$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.780599$
1	4633.2	21467	728	ACF = $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5141.8$	
2	4560.2	20795	1400		
3	4235.2	17937	4258		
4	3410.2	11629	10566		
5					

Absolute Open Flow 5141.8 Mcfd @ 15.025		Angle of Slope @ 52° 17'		Slope, n .777325	
---	--	--------------------------	--	------------------	--

Remarks: BHP measured with Amerada RPG-3 gauge Serial No. 12468 0-6000 psi					
Approved By Commission:		Conducted By: Tefteller, Inc.		Calculated By: B. Combust	
Checked By:					