

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 6-3-78		ILLEGIBLE	
Company UNION TEXAS PETROLEUM CORP.		Location Northern Natural			
Well Jalmat		Formation Yates		Unit	
Completion Date 4-9-78		Total Depth 3211		Flow Back To 3207	
Elevation 3241.4' GL		Form or Lease Name State "A-32"			
Csg. Size 4.500	Wt. 10.5	d 4052	Set At 3211	Perforations: From 2913 To 3190	
Trq. Size 2 3/8	Wt. 4.7	d 1.995	Set At 2563	Perforations: From --- To ---	
Type Well - Single - Production - G.G. or G.O. Multiple Single				Packer Set At ---	
Producing Thru Tubing		Reservoir Temp. °F 95 @ 3207		Mean Annual Temp. °F 80	
L		H		Zero. Press. - P _{ga} 13.2	
3052		3052		New Mexico	
Gg .661		% CO ₂ .01		% N ₂ 2.69	
Prover ---		Meter Run 2.000		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
1.	2.000 x 1.500			50	4.0	70	195	75	195	0	144
2.	2.000 x 1.500			50	9.0	64	185	71	185	0	4.0
3.	2.000 x 1.500			54	20.0	66	175	70	175	0	4.0
4.	2.000 x 1.500			60	40.0	73	170	70	170	0	4.0
5.							155	76	155	0	4.0

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 Compens. Factor, F _{pv}	Rate of Flow Q, Mhd
1	13.20	15.90	63.2	.9905	1.2300	1.0058	257
2	13.20	23.85	63.2	.9962	1.2300	1.0060	388
3	13.20	36.66	67.2	.9943	1.2300	1.0063	596
4	13.20	54.11	73.2	.9831	1.2300	1.0063	870
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.L. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	.10	530	1.43	.988	0	0	.661	XXXXXX	665	370
2	.10	524	1.42	.988						
3	.10	526	1.42	.987						
4	.11	538	1.45	.987						
5										

P _c 207.9 P _r ² 43		$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 4.9872$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 49872$	
NO.	P _r ²	P _w ²	P _c ² - P _w ²
1	39	199	40
2	35	191	37
3	34	191	36
4	28	186	35
5			

Absolute Open Flow 4336		Angle of Slope α 45.0		Slope, n 1.000	
Remarks:					
Approved By: Conductor		Conducted By: Paul Granger		Checked By: Stanley A. Post	
		Calculated By: Kathy Wilkerson			