

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 3/3/73		MAR 16 1973	
Company Adobe Oil Company				Connection Transwestern Pipeline Company			
Pool Rock Tank <i>Upper Morrow</i>				Formation Upper Morrow		Unit O. C. C. ARTESIA, OFFICE	
Completion Date 10/17/72		Total Depth 10,315		Plug Back TD 10,231		Elevation 3902 KB	
Csg. Size 5 1/2		Wt. 17#		d 4.892		Set At 10,315	
Perforations: From 9874 To 9898		Perforations: From Open end To		Well No. 1			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Multiple		Packer Set At 10,045		County Eddy			
Producing Thru Casing		Reservoir Temp. °F 175 @ 10,196		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
State New Mexico							
L 9874		H 9874		G _g .587		% CO ₂ .0110	
				% N ₂ .0029		% H ₂ S .09 Gr/CGF	
Prover X		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							Choke		2559		20
1.	2	X	1.125	860	16	66	9/64	58	2272		1
2.	2	X	1.125	880	28	55	11/64	58	2016		1
3.	2	X	1.125	880	49	50	14/64	58	1635		1
4.	2	X	1.125	880	60	56	17/64	58	1224		1
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	6.393	118.2	873.2	.9943	1.305	1.062	1041
2	6.393	158.1	893.2	1.005	1.305	1.073	1422
3	6.393	209.2	893.2	1.010	1.305	1.077	1899
4	6.393	231.5	893.2	1.004	1.305	1.073	2081
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio <u>TSTM</u> Mcf/bbl.	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.	Specific Gravity Separator Gas <u>.587</u> XXXXXXXXXX	Specific Gravity Flowing Fluid <u>XXXXX</u>	Critical Pressure <u>672</u> P.S.I.A.	Critical Temperature <u>350</u> °R
1	1.17	526	1.50	.887						
2	1.33	515	1.47	.868						
3	1.33	510	1.46	.862						
4	1.33	516	1.47	.868						
5										

NO.	P _r ²	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$
1	2285.2	5222	1394	1.303	1.150
2	2029.2	4118	2498		
3	1648.2	2717	3899		
4	1240.5	1539	5077		
5					

Absolute Open Flow 2393 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .528

Remarks: Friction negligible - See C-122-E for rate No. 4

Approved By Commission:	Conducted By:	Calculated By: <i>W. J. Haller</i>	Checked By:
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