

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

Distribution:
Oil & Gas
Production
Engineering
Geology
Marketing
Finance
General

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 5/20/74	
Company Texas International		Connection None	
Well Strawn		Formation JUN 4 1974	
Completion Date 5/10/74		Total Depth 12620	
Play Back TD 12520		Elevation O. C. C.	
Casing Size 5"		Well No. 1	
Well Size 18		Unit H 31 20 30	
Set At 12620		Perforations: From 11,105 To 11,110	
Set At 11,110		Perforations: From To	
Type Well - Single - Broadhead - G.G. or G.O. Multiple Dual		Packer Set At 11,091	
Producing Thru Tag.		Reservoir Temp. °F 170 @ 11,110	
Mean Annual Temp. °F 13.2		State New Mexico	
L 11,110		H 11,110	
Cg .677		% CO ₂	
% N ₂		% H ₂ S	
Prover		Meter Run 3"	
Taps Flg.			

FLOW DATA						TUBING DATA		CASING DATA		Duration	
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	of Flow
1.	3	x	1.50	500	11.0	93	2907	77			1 hr.
2.	3	x	1.50	540	33.0	83	2995	77			1 hr.
3.	3	x	1.50	750	43.0	65	2903	76			1 hr.
4.	3	x	1.50	720	85.5	60	2729	76			1 hr.

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft	Gravity Factor Fg	Super Compress. Factor F _{pv}	Rate of Flow Q, Mcfd
1.	11.13	75.13	513.2	.9697	1.215	1.047	1032
2.	11.13	135.11	553.2	.9785	1.215	1.056	1883
3.	11.13	181.16	763.2	.9952	1.215	1.090	2657
4.	11.13	250.38	733.2	1.000	1.215	1.090	3691

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	.77	553	1.44	.912	10.817	57.8 @ 60°	.677	XXX XXX XXX	669	385
2.	.83	543	1.41	.897				XXX XXX XXX	661	467
3.	1.14	525	1.36	.841				XXX XXX XXX		
4.	1.10	520	1.35	.842				XXX XXX XXX		

NO.	P _r ²	P _w	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.	3172.2	10062.9	1194.5		5.324	5.324
2.	3110.9	9677.7	1579.7			
3.	3062.5	9378.9	1873.5			
4.	3023.7	9142.8	2114.6			

Absolute Open Flow		Mcfd @ 15.025		Angle of Slope @		Slope, n	
19,650				45°		1.000	

Remarks: 35.7 bbls. of distillate made during test. Bottom hole pressures taken from bomb at 11,110 Ft.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Rick Pagan	Rick Pagan	