

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

MAY 20 1982

c/SF
file

O. C. D.
ARTESIA, OFFICE

Type of Test ☒ Initial ☐ Annual ☐ Special		Test Date 3/2/82	
Company FRED POOL <i>Operating Co.</i>		Connection Air	
Well 1314 <i>Und Fusselman</i>		Formation Fusselman	
Completion Date 2-23-82		Total Depth 6235'	Plugging Point 5163'
Elevation 3829 GL		Form of Lease Eastland <i>State</i>	
Gas Size 5 1/2	Vel. 15.5	Set At 6226	Perforations: From 6002 To 6050
Gas Size 2 3/8	Vel. 1.7	Set At 5934	Perforations: From 5932 To 5958
Well No. 2		Unit K	
Sec. 13		Twp. 9S	
Range 36E		County Chaves	
State New Mexico		City Alamogordo	
Producing Zone Tubing		Reservoir Temp. °F 115	Wellhead Temp. °F 60
Barrel Set At 5934		Surf. Temp. - 1 _h 13.5	
L	H	Gr .62	% CO ₂
% H ₂		% N ₂	
Flow 2"		Meter Run	
Pump			

FLOW DATA						TIMING DATA		GASING DATA		Duration of Flow
No.	Prover Line Size	X	Cutoff 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
51							2017	58		
1.	2	X	1.25		13		1998	62		
2.	2	X	1.25		21		1975	64		1 hr
3.	2	X	1.25		32		1938	64		"
4.	2	X	1.25		45		1886	63		"
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w F_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Surf. Compens. Factor F _{sp}	Rate of Flow Q, Mscf
1	36.2			.998	1.258	1.162	696
2	36.2			.994	1.258	1.163	1105
3	36.2			.994	1.258	1.165	1687
4	36.2			.995	1.258	1.166	2377
5							

NO.	P _i	Temp. °R	T _r	Z
1	3.31	570	1.53	.809
2	3.27	570	1.53	.809
3	3.22	570	1.53	.810
4	2.18	570	1.53	.815
5				

Gas Liquid Hydrocarbon Data					Miscibility	
A.P.I. Gravity of Liquid Hydrocarbons					Test	
Specific Gravity Liquid Gas					XXXXXX	
Specific Gravity Flowing Liquid					XXXXXX	
Critical Pressure					P.S.I.A.	
Critical Temperature					°R	
1	2347	P _w ²	5508			
NO.	P _i	P _w	P _w ²	P _i ² - P _w ²	(1) $\frac{P_i^2}{P_i^2 - P_w^2} =$	(2) $\left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n =$
1		2327	5415	93.48	6.25	3.74
2		2296	5272	236.79		
3		2262	5117	391.00		
4		2200	4840	668.00		
5						

Absolute Open Flow	2882	Mscf @ 14.7 psia	Angle of Slope °	32	Station, P.S.I.A.	625
Remarks: Bottom hole pressures recorded with Amerada type gauge.						
Approved by	Checked by	Calculated by	Checked by			
	Keltic Services	Mike Kelly				