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appropriate district office.
See Rule 401 & Rule 1122

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-122
Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

30-025-24611

Operator KAISER-FRANCIS OIL COMPANY					Lease or Unit Name BELL LAKE "3"					
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 4/19/00		Well No. 14			
Cover Date 4/15/00		Total Depth 14228		Plug Back TD 13295		Elevation 3600 GR		Unit Ltr - Sec - TWP - Rge F 5-24S-34E		
Csg. Size 5"	Wt. 18#	d 4.276	Set At 11891 - 14226	Perforations: From: 12885 To: 12893		County LEA				
Tbg. Size 2 3/8 2 7/8	Wt. 4.7/6.5	d 1.9/2.4	Set At 12827/11265	Perforations: From: - To: -		Pool Bell Lake, South				
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 12827		Formation Atoka				
Producing Thru Tbg. Size		Reservoir Temp. °F 202.6		Mean Annual Temp. °F 60		Baro. Press. -P _a 13.2		Connection AIR		
L 12861	H 12861	Gg 0.651	%CO ₂ 0.669	%N ₂ 0.985	%H ₂ S N/A	Prover N/A	Meter Run 4.026	Taps FLG		
FLOW DATA				TUBING DATA			CASING DATA			
No.	Prover Line Size	Orifice x 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	Duration of Flow
SI						6500	N/A	PKR	N/A	24HR
1	4.026 X .750		850	41	100	920				STABILIZED
2										
3										
4										
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	2.661		188.12	863.2	0.9636	1.239	1.044		623	
2										
3										
4										
5										
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 25.958 Mcf bbl.					
1	0.83	560	1.5	0.918	A.P. I. Gravity of Liquid Hydrocarbons 53.3 Deg.					
2					Specific Gravity Separator Gas 0.651 XXXXXX					
3					Specific Gravity Flowing Fluid N/A XXXXX					
4					Critical Pressure 673 P.S.I.A. 670 P.S.I.A.					
5					Critical Temperature 371 R 407 R					
P _c 6513.2 P _{c2} 42421.8										
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.021$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.021$					
1	870.9	936.5	877	41544.8						
2										
3					AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 636$					
4										
5					79825					
Absolute Open Flow 636 Mcfd @ 15.025					Angle of Slope (°): 45			Slope n: 1		
Remarks: *WELL MADE 24 BBLs OF 53.3 API GRAVITY CONDENSATE DURING TEST.										
Approved By Division:			Conducted By: PRO WELL TESTING			Calculated By: MB			Checked By: BM	

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