

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 10-5-80		JAN 15 1981	
Company FRED POOL <i>Widoot</i>				To AIR				O.C.D.	
Pool <i>Widoot</i>				ABO				Unit ARTESIA, OFFICE	
Completion Date 10-1-80		Total Depth 5035		Perforations 3065 4484		Elevation 3898		Farm or Lease Name GRYNBERG <i>and Son.</i>	
Csg. Size 4 1/2	Wt. 11.6	d 4.000	Set At 5035	Perforations: From 3778 To 3796		Well No. 1			
Thq. Size 2 3/8	Wt. 4.70	d 2.995	Set At 3700	Perforations: From OPEN ENDED To		Unit J		Sec. 13	Twp. 65
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE						Packer Set At 3700		County CHAVES	
Producing Thru TBG		Reservoir Temp. °F 112 @ 3787		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State NEW MEXICO	
L 3787	H 3787	Gg .677	% CO ₂ .316	% N ₂ 14.394	% H ₂ S -0-	Prover	Meter Run 4	Taps FLG	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							957			CHOKE	24 HOUR
1.	4	x	1.00	320	8	95	919			8/64	1 HOUR
2.	4	x	1.00	325	18	93	876			11/64	1 HOUR
3.	4	x	1.00	330	29	89	830			14/64	1 HOUR
4.	4	x	1.00	330	48	85	757			16/64	1 HOUR
5.											

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, Fpv	Rate of Flow Q, Mcfd
1	4.753	51.63	333.2	.9680	1.215	1.021	295
2	4.753	78.02	338.2	.9697	1.215	1.021	446
3	4.753	99.76	343.2	.9732	1.215	1.022	573
4	4.753	128.35	343.2	.9768	1.215	1.022	740
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	DRY	Mcf/bbl.
1	.52	555	1.62	.960	A.P.L. Gravity of Liquid Hydrocarbons		Deq.
2	.52	553	1.61	.959	Specific Gravity Separator Gas	.677	X X X X X X X X
3	.53	549	1.60	.958	Specific Gravity Flowing Fluid	X X X X X	
4	.53	545	1.59	.957	Critical Pressure	645	P.S.I.A.
5					Critical Temperature	343	R

NO.	P _c	P _w	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1	977.1	954.7		2.917	1.978
2	*	898.1			
3	*	861.3			
4	*	792.1			
5					

Absolute Open Flow	1,463	Mcf/d @ 15.025	Angle of Slope @	57.5	Slope, n	.637
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Remarks: CALCULATED FROM KNOWN BOTTOM PRESSURES, MEASURED WITH A KUSTER GAUGE.

Approved By Commission:	Conducted By: M.R.	Calculated By: R.R.	Checked By: J. W. W.
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