

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

Form C-122
Revised 9-1-65

AUG 08 1983

451
File

Type Test: ☒ Initial 4-POINT ☐ Annual ☐ Special						Test Date: 5-17-83		O. C. D. ARTESIA OFFICE	
Company: DINERO ✓				Connection: TO AIR					
Pool: UNDESIGNATED <i>Willow Lake Atoka</i>				Formation: ATOKA				Unit:	
Completion Date: 7-14-83		Total Depth: 11920		Plug Back: 11910		Elevation: 2926.6		Farm or Lease Name: AMINOL FED.	
Well Size: 7.625	Wt.: 35.5	d: 7.285	Set At: 11430	Perforations: From 11716 To 11724		Well No. #1			
Log Size: 2.875	Wt.: 6.5	d: 2.441	Set At: 9156	Perforations: From 0 To 0		Unit: J 22		Sec.: 24S	Age: 28E
Type Well - Single - (Packerhead - O.O. or O.O. Multiple): SINGLE						Packer Set At: 8858		County: EDDY	
Producing thru: TUBING		Reservoir Temp. °F: 185 @ 11720		Mean Annual Temp. °F: 60.0		Barn. Press. - P _g : 13.2		State: NEW MEXICO	
L: 11720	H: 11720	O _g : 0.588	% CO ₂ : 0.36	% N ₂ : 0.58	% H ₂ S: 0	Prover: 0	Meter Run: 4.0	Type: FLANGE	

FLOW DATA						TUBING DATA		B.J.L.P. 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.		CHOKER
51							7283		8689		72.0
1	4.03 X 1.500			410	11.0	80	7241	82	8641	3/64	1.0
2	4.03 X 1.500			445	24.0	65	7195	78	8607	4/64	1.0
3	4.03 X 1.500			520	50.0	50	7113	76	8528	5.5/64	1.0
4	4.03 X 1.500			625	100.0	32	6950	75	8368	7/64	1.0
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RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super. Compens. Factor F _{sp}	Rate of Flow Q, Mcfd
1	10.84	68.23	423.2	0.9813	1.3041	1.0307	976.
2	10.84	104.87	458.2	0.9952	1.3041	1.0370	1530.
3	10.84	163.28	533.2	1.0098	1.3041	1.0483	2444.
4	10.84	252.63	638.2	1.0281	1.3041	1.0661	3915.
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NO.	P ₁	Temp. °F	Q	Z	Gas Liquid Hydrocarbon Ratio _____ Mol/bbl.	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
1	0.63	540.	1.53	0.941	Specific Gravity Separator Gas: 0.588	XXXXXXXXXX
2	0.68	525.	1.49	0.930	Specific Gravity Flowing Fluid: XXXXX	0.588
3	0.79	510.	1.45	0.910	Critical Pressure: 674. _____ P.S.I.A.	674. _____ P.S.I.A.
4	0.95	492.	1.40	0.880	Critical Temperature: 353. _____ R	353. _____ R
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NO.	P ₁ ²	P _w ²	R ₁ ²	P ₁ ² - R ₁ ²	(1) $\frac{P_0^2}{R_1^2 - R_0^2} = 12.1030$	(2) $\left[\frac{R_1^2}{R_1^2 - R_0^2} \right]^n = 6.3408$
1	74895	7239	52398	773	AOF = Q $\left[\frac{R_1^2}{R_1^2 - R_0^2} \right]^n = 24923$	Post #D-2 10-21-83 Camp & BK
2	74308	7207	51940	1232		
3	72952	7133	50883	2289		
4	70245	6984	48779	4393		
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Absolute Open Flow: 24823	Mold @ 15.025	Angle of Slope: 53.5	Slope, n: 0.741
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Remarks: BOTTOM HOLE PRESSURES MEASURED WITH AMERADA PRESSURE ELEMENTS.

Approved By Commission:	Conducted By: RICHARD TOWNLEY	Calculated By: BENNETT & CATHEY	Checked By:
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