

NE MEXICO OIL CONSERVATION COMMS. N
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

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Form C-122
Revised 9-1-66

copy to J.F.

OCT 7 1966

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 10/2/66				
Company Jack L. McClellan				Connection None					
Pool Wildcat				Formation Queen				Unit	
Completion Date 5/5/66		Total Depth 3537		Plug Back TD 2044		Elevation 3913 DF		Farm or Lease Name Lisa Federal	
Csg. Size 5 1/2	Wt. 15.5	d 4.950	Set At 2060	Perforations: From 1959 To 1974			Well No. 1		
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 2020	Perforations: From Open end To			Unit Sec. Twp. Rge. D 13 158 29E		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At None		County Chaves		
Producing Thru Tubing		Reservoir Temp. °F 60°		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2		State New Mexico	
L 2020	H 2020	G _g .880	% CO ₂ 0.60	% N ₂ 62.6%	% H ₂ S --	Prover X	Meter Run	Taps	

FLOW DATA							TUBING DATA		CASING 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.	Temp. °F	
SI							688	80	688		*
1.	2 X 5/16			596		71	596	80	617		1
2.	2 X 3/8			536		70	536	80	586		1
3.	2 X 1/2			422		69	422	80	525		1
4.	2 X 5/8			327		67	327	80	482		1
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	1.672		609.2	0.9896	1.066	1.022	1098
2	2.378		549.2	0.9905	1.066	1.021	1408
3	4.279		435.2	0.9915	1.066	1.016	2000
4	6.473		340.2	0.9933	1.066	1.013	2362
5							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1	1.09	531	1.90	0.958	A.P.I. Gravity of Liquid Hydrocarbons None _____ Deg.
2	0.99	530	1.89	0.960	Specific Gravity Separator Gas .880 _____ X X X X X X X X
3	0.78	529	1.89	0.969	Specific Gravity Flowing Fluid X X X X X _____
4	0.61	527	1.88	0.975	Critical Pressure 557 _____ P.S.I.A. _____ P.S.I.A.
5					Critical Temperature 280 _____ R _____ R

NO.	P _t ²	P _w ²	P _w ²	P _c ² - P _w ²
1		630.2	397.2	94.5
2		599.2	359.0	132.7
3		538.2	289.7	202.0
4		495.2	245.2	246.5
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \underline{1.995}$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{4,285}$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{1.814}$

Absolute Open Flow 4,285 Mcfd @ 15.025		Angle of Slope θ _____	Slope, n .862
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Remarks: *** Shut In since completion.**

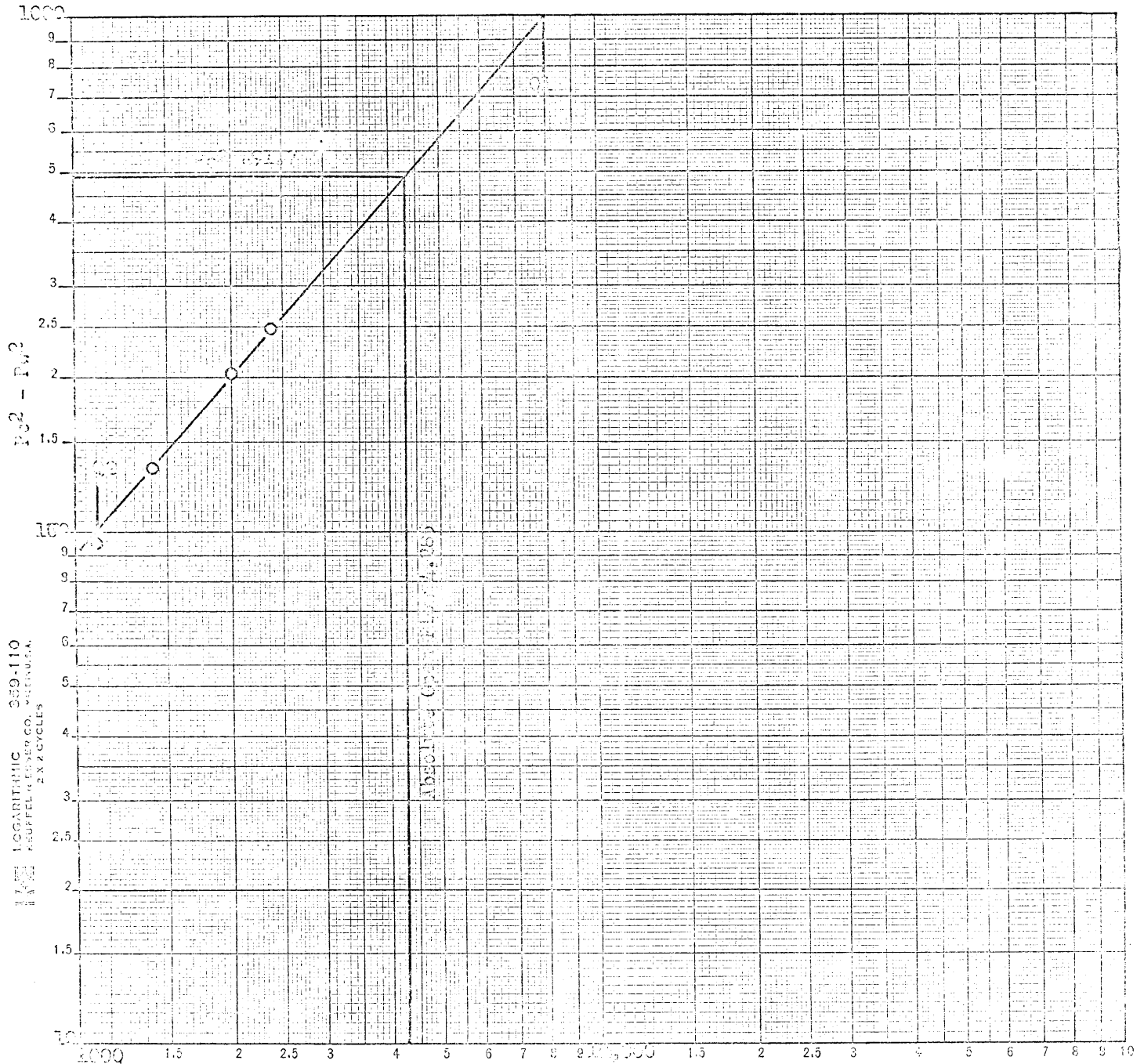
Approved By Commission: <i>noted J.F.</i>	Conducted By: <i>H. L. Smith</i>	Calculated By: <i>Monica Kellie</i>	Checked By:
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RECEIVED

OCT 7 1966

Jack L. McClellan
 Lisa Federal No. 1
 Unit D, Sec. 13, T15S, R29E
 Chaves County, New Mexico
 October 2, 1966

U. S. G.
 ARTIFICIAL SATELLITE



Log Q1 = 3.902090

Log Q2 = 3.041383

Q McFPD

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