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C-122

Form C-122
Revised 9-1-65

NLW XICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 5-23-74		JUL 10 1974	
Company Mark Production Company			Connection		
Pool Undesignated - Wildcat			Formation Atoka		
Completion Date 5-23-74		Total Depth 9451'		Plug Back TD 9107'	
Elevation 3472' GL		Farm or Lease Name State "B"			
Csq. Size 5.5		Wt. 17# 20#		Set At 9550'	
Tbg. Size 2-3/8"		Wt.		Set At 8761'	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single			Packer Set At 8761'		
Producing Thru Tubing		Reservoir Temp. °F 212 @		Mean Annual Temp. °F 60	
Baro. Press. - P _a		State New Mexico			
L 8881		H 8881		G _q .606	
% CO ₂ .51		% N ₂ .78		% H ₂ S None	
Prover 4"		Taps Flange			

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							2795	70			72 S.I.
1.	4 x 1.750			895	3.5	94	2593	79			"
2.	"			925	20.0	110	1753	77			"
3.	"			921	35.0	97	1047	77			"
4.	"			925	35.0	92	1005	78			"
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor F _{pv}	Rate of Flow Q, Mcfd
1	15.31	56.3	908	0.9688	1.285	1.065	1143
2	15.31	138.5	938	0.9551	1.285	1.058	2753
3	15.31	180.5	934	0.9662	1.285	1.064	3651
4	15.31	181.1	938	0.9706	1.285	1.066	3686
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	1.35	554	1.55	.882	No fluid		.606	X X X X X X X X	673	358
2	1.39	570	1.59	.893			X X X X X			
3	1.39	557	1.55	.883						
4	1.39	552	1.54	.880						
5										

NO.	P _r	P _w	P _w ²	P _c ² - P _w ²
1	6791	3168	10036	1585
2	3119	2213	4897	6724
3	1124	1479	2187	9434
4	1036	1439	2071	9551
5				

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

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4350$

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

7-19-74

Absolute Open Flow 4350 Mcfd @ 15.025		Angle of Slope 49.8°		Slope, n .845	
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Remarks:	
Approved By Commission:	Conducted By: W. H. Cravey
Calculated By: UCS Time Share	Checked By: Curtis W. Mewbourne

State B #1
 Mark Production
 Dec. 33-1959
 Paddy, New Mexico

$\alpha = 49.8$ $n = .845$
 $AOF = 4350 \text{ MCF/D}$

