

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 7-24-81		JAN 28 1982	
Company Stevens Oil Company				Connection To Air				O. C. D. ARTESIA OFFICE	
Pool <i>Wildcat</i> Twin Lakes				Location <i>Permit</i> Atoka				Unit	
Completion Date 7-1-81		Total Depth 7,225'		Plug Back TD 6985'		Elevation		Farm or Lease Name O'Brian "C"	
Csg. Size 5 1/2	Wt. 17#	d 4.892	Set At 7225	Perforations: From 6831 To 6835		Well No. 4			
Tbg. Size 2 3/8	Wt. 4.7#	d 1.995	Set At 6780	Perforations: From Open To Ended		Unit Sec. Twp. Rge. L 1 9 S 28 E			
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single						Packer Set At 6780		County Chaves	
Producing Thru tubing		Reservoir Temp. °F 136 @ 6835		Mean Annual Temp. °F 60		Baro. Press. - P _g 13.2		State New Mexico	
L 6835	H 6835	Gg .7216	% CO ₂ 4.657	% N ₂ .355	% 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. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							2022		PKR	choke	48 Hrs.
1.	4	x	.750	250	5"	90°	1662			7/64	1 Hr.
2.	4	x	.750	250	13"	91°	1295			9/64	1 Hr.
3.	4	x	.750	260	22"	93°	800			14/64	1 Hr.
4.	4	x	.750	260	16"	94°	403			48/64	1 Hr.
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	2.661	36.28	263.2	.9723	1.178	1.025	113.3
2	2.661	58.49	263.2	.9715	1.178	1.024	182.4
3	2.661	77.53	273.2	.9697	1.178	1.025	241.6
4	2.661	66.12	273.2	.9688	1.178	1.025	205.8
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
					20.64	
					A.P.I. Gravity of Liquid Hydrocarbons	65.5 @ 60°
					Specific Gravity Separator Gas	XXXXXXX
					Specific Gravity Flowing Fluid	XXXXX
					Critical Pressure	687 P.S.I.A.
					Critical Temperature	389 R
1.	.383	550	1.41	.952		
2.	.383	551	1.42	.953		
3.	.398	553	1.42	.951		
4.	.398	554	1.42	.951		
5.						

P _c *2096.04 P _c ² 4393.4					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.50454$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.346$
NO	P _t ²	P _w	P _w ²	P _c ² - P _w ²		
1		1836.9	3374.2	1019.20		
2		1582.2	2503.4	2890.0		
3		1213.8	1473.3	2920.1		
4		690.8	477.2	3916.2		
5						

Absolute Open Flow 325.25 Mcfd @ 15.025				Angle of Slope θ 53°57'	Slope, n .72788
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Remarks: * Calculated from known bottom hole pressure			
Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	W.S.	M.K.	M.K.