

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

Form C-122
Revised 9-1-65

Aug 30

Type Test ☐ Initial ☐ Annual ☒ Special						Test Date AUG 30 1965	
Company Union Oil Co. of Calif.				Connection None			
Pool Wildcat				Formation Niobrara Shale			
Completion Date 11-19-75		Total Depth 7030'		Plug Back TD 6580'		Elevation 7442' GL	
Farm or Lease Name Jicarilla N-31							
Csg. Size 5-1/2" I.	Wt. 17#	d	Set At 7029'	Perforations: From 6510' To 6531'		Well No. 1	
Tbg. Size 2-7/8"	Wt. 4.7#	d	Set At 6280'	Perforations: From None To		Unit Sec. Twp. Rge. N 31 30N 1W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 6280'		County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F 160° @ 6510'		Mean Annual Temp. °F 50°		Baro. Press. - P _a 12.2	
State New Mexico							
L 6280'	H 6280'	Gg 0.700(est)	% CO ₂ -	% N ₂ -	% H ₂ S 0	Prover 2"	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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI	110 Days						1639		Pkr.	-	S.I.
1.	2.0	X	7/16"	36	18	60	40	60	"	-	24 Hr.
2.											
3.											
4.											
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	3.408		48.2	1.000	1.195	1.00	196
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	196 Mcf/bbl.
					A.P.I. Gravity of Liquid Hydrocarbons	39 Deg.
1.	.07	520	1.33	1.0	Specific Gravity Separator Gas	0.700(est)
2.					Specific Gravity Flowing Fluid	X X X X X
3.					Critical Pressure	P.S.I.A. 668
4.					Critical Temperature	R 392
5.						

P _c 1651.2	P _c ² 2726.5	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0009$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0007$
NO.	P _t ²	P _w	P _w ²
1	2.7	52	2.7
2			
3			
4			
5			

Absolute Open Flow		196 Mcfd @ 15.025	Angle of Slope θ	Slope, n 0.75
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Remarks: Flow rate tested during flow to clean up well following perforation break down.

Approved By Commission:	Conducted By: R. D. Cline	Calculated By: J. D. Roe	Checked By: J. D. Roe
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