

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

Form C-122
Revised 9-1-65

Type Test ☐ Initial ☐ Annual ☒ Special						Test Date 6-21-76			
Company Union Oil Company of Calif.				Connection None					
Pool Basin Dakota				Formation Dakota				Unit	
Completion Date 6-21-76		Total Depth 6315'		Plug Back TD 6285'		Elevation 6482' GL		Farm or Lease Name Navajo E-18	
Csg. Size 5-1/2"	Wt. 15.5#	d 	Set At 6315'	Perforations: From 6065' To 6128'			Well No. 5		
Tbg. Size 2-3/8"	Wt. 4.7#	d 1.995	Set At 5973'	Perforations: From None To			Unit Sec. Twp. Rge. E. 18 25N 10W		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 5966'		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F 144° @ 6328'		Mean Annual Temp. °F 50°		Baro. Press. - P _a 12.2		State New Mexico	
L 5973'	H 5973'	G _g 0.726(est)	% CO ₂ 0.49	% N ₂ 1.58	% H ₂ S 0	Prover	Meter Run 3.0"	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	7 Day S.I.										
1.	3.0"		1-1/2"	600	23"	60°	1025	-	-	-	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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	11.13	118.66	612.2	1.00	1.174	1.085	1680
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	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.	.916	520	1.3	0.85	40.0 Mcf/bbl.	44.1 Deg.	0.726(est)	XXXXXXX	668 P.S.I.A.	400 R
2.										
3.										
4.										
5.										

P _c 1910.2	P _c ² 3648.9	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.454$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.324$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1	1075.8	1067	1139.2	2509.7
2				
3				
4				
5				

ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2224$

Absolute Open Flow	2224 Mcfd @ 15.025	Angle of Slope θ	Slope, n 0.75
--------------------	--------------------	------------------	---------------

Remarks: Flow rate tested at end of flow to clean up frac load and prior to shut in for 7 day build up - Information only.

Approved By Commission:	Conducted By: R. D. Cline	Calculated By: J. D. Roe	Checked By: J. D. Roe <i>JDR</i>
-------------------------	------------------------------	-----------------------------	-------------------------------------