

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 7-27-76			
Company Union Oil Company of Calif.				Connection None					
Pool Basin Dakota				Formation Dakota				Unit	
Completion Date 7-25-76		Total Depth 6157'		Plug Back TD 6114'		Elevation 6421' G.L.		Farm or Lease Name Navajo 0-12	
Csg. Size 5-1/2"	Wt. 15.5#	d 1.995	Set At 6156'	Perforations: From 5997' To 6050'		Well No. 2			
Tbg. Size 2-3/8"	Wt. 4.7#	d 1.995	Set At 5856'	Perforations: From None To		Unit 0	Sec. 12	Twp. 25N	Rge. 11W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 5849'		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F 140⁰@ 6164'		Mean Annual Temp. °F 50⁰		Baro. Press. - P _a 12.2		State New Mexico	
L 5856'	H 5856'	Gg 0.726(est)	% CO ₂ 0.49	% N ₂ 1.58	% H ₂ S 0	Prover	Meter Run 3.0"	Tcps 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.		-	-	-	-	2000	-	PKR	-	S.I.
1.	3.0"		1-3/4"	200	33"	60⁰	1810	-	"	-	2 Hrs.
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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	15.61	83.682	212.2	1.000	1.174	1.0271	1580
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio 77.45 Mcf/bbl.
1.	.318	520	1.3	.948	A.P.I. Gravity of Liquid Hydrocarbons 44.1 Deg.
2.					Specific Gravity Separator Gas 0.726 (est) XXXXXXXXXX
3.					Specific Gravity Flowing Fluid XXXXXX 0.7663
4.					Critical Pressure _____ P.S.I.A. 668 P.S.I.A.
5.					Critical Temperature _____ R 400 R

P _c 2012.2	P _c ² 4048.9		
NO.	P _t ²	P _w	P _w ²
1	3320.4	1835	3366.1
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.930$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 6004$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.800$

Absolute Open Flow 6004 Mcfd @ 15.625	Angle of Slope θ _____	Slope, n 0.75
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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: B. L. Griffith	Calculated By: J. D. Roe	Checked By: J. D. Roe <i>JDR</i>
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