

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 6-18-76			
Company Union Oil Co. of California				Connection None					
Pool Basin Dakota				Formation Dakota				Unit	
Completion Date 6-18-76		Total Depth 6330'		Plug Back TD 6300'		Elevation 6431' GL		Farm or Lease Name Navajo I-1	
Csg. Size 5-1/2"	Wt. 15.5#	d	Set At 6330'	Perforations: From 6237' To 6244'		Well No. 3			
Tbg. Size 2-3/8"	Wt. 4.7#	d 1.995"	Set At 6062'	Perforations: From NONE To		Unit I		Sec. 1	Twp. 25N
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 5991'		County San Juan	
Producing Thru Tbg.		Reservoir Temp. °F 160° @ 6157'		Mean Annual Temp. °F 50°		Baro. Press. - P _c 12.2		State New Mexico	
L 6062'	H 6062'	Gg 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 Days						1700	-	PKR	-	S.I.
1.	3.00'		1.0"	80	51	60	100	-	"	-	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	4.784	68.57	92.2	1.000	1.174	1.0	385
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	35.0 Mcf/bbl.
1.	0.138	520	1.3	1.0	A.P.I. Gravity of Liquid Hydrocarbons	44.1 Deg.
2.					Specific Gravity Separator Gas	0.726 (est)
3.					Specific Gravity Flowing Fluid	XXXXXX
4.					Critical Pressure	P.S.I.A. 668
5.					Critical Temperature	R 400

P _c 1712.6	P _c ² 2931.6	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.006$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.004$
NO.	P _t ²	P _w	P _w ²
1	12.6	13.1	17.2
2			
3			
4			
5			

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 387$

Absolute Open Flow	387	Mcf/d @ 15.025	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: R. D. Cline	Calculated By: J. D. Roe	Checked By: J. D. Roe <i>JDR</i>
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