NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: Initial ☐ Annual ☐ Special ☒				Test Date	
Company: Union Oil Co. of California		Connection: None			Unit
Pool: Wildcat		Formation: Dakota			
Completion Date: 1-21-75	Total Depth: 8355'	Plug Back TD: 8245'	Elevation: 7299' GL	Farm or Lease Name: Jicarilla (C-20)	
Csg. Size: 3-1/2" / Wt.: 9.3# / d: / Set At: 8345'		Perforations: From 8239' To 8242'		Well No.: 1	
Tbg. Size: 2-7/8" / Wt.: 6.5# / d: / Set At: 7215'		Perforations: From None To		Unit: C / Sec.: 20 / Twp.: 28N / Rge.: 1W	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 7200' (PBR)		County: Rio Arriba	
Producing Thru: Tubing	Reservoir Temp. °F: 186 @ 8351'	Mean Annual Temp. °F: 50°	Baro. Press. – P_a: 12.2	State: New Mexico	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
.8240'	8240'	0.700(est)	-	-	0		3.0"	

	FLOW DATA					TUBING DATA		CASING DATA		
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	Duration of Flow
SI	284 Days					2445	-	Pkr.	-	S.I.
1.	3"	1.0	28	37"	60	35	-	"	-	5 hrs.
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, Fpv	Rate of Flow Q, Mcfd
1	4.789	38.56	40.2	1.00	1.195	1.0	220
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	.06	520	1.33	1.0
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio: None Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Deg.
Specific Gravity Separator Gas: 0.700(est) XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: P.S.I.A. 668 P.S.I.A.
Critical Temperature: R 392 R

P_c 2457.2 P_c^2 6037.8

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	2.2		2.2	6035.6
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0004$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.00013$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 220$

Absolute Open Flow: 220 Mcfd @ 15.025 Angle of Slope θ: Slope, n: 0.75

Remarks: Flow rate tested during flow to clean up frac load and prior to shut in.

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