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: 7-6-76	1976
Company: Union Oil Company of Calif.		Connection: None			
Pool: Basin Dakota		Formation: Dakota		Unit:	
Completion Date: 7-6-76	Total Depth: 6220'	Plug Back TD: 6183'	Elevation: 6388' GL	Farm or Lease Name: Navajo L-12	
Csg. Size: 5-1/2" / Wt.: 15.5# / d: / Set At: 6219.7'		Perforations: From 5971' To 6037'		Well No.: 6	
Tbg. Size: 2-3/8" / Wt.: 4.7# / d: 1.995 / Set At: 5914'		Perforations: From None To		Unit: L / Sec.: 12 / Twp.: 25N / Rge.: 11W	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 5907'		County: San Juan	
Producing Thru: Tubing	Reservoir Temp. °F: 140° @ 6220'	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
5914'	5914'	0.726(est)	0.49	1.58	0		3"	Flange

NO.	FLOW DATA: Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI	186 Hrs.		-	-	1960	-	PKR	-	S.I.
1.	3.0" 1-3/4"	480	15"	60	1560		"	-	6 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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	15.61	85.92	492.2	1.00	1.174	1.066	1680
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	0.737	520	1.30	0.880
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio 336 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 44.1 Deg.
Specific Gravity Separator Gas 0.726 (est) XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX 0.7353
Critical Pressure ____ P.S.I.A. 668 P.S.I.A.
Critical Temperature ____ R 400 R

P_c 1972.2 P_c^2 3889.6

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	2471.8	1588	2522.8	1366.8
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.846$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.191$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3681$

Absolute Open Flow 3681 Mcfd @ 15.025 Angle of Slope θ ____ Slope, n 0.75

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

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