NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 11-24-75	
Company: Union Oil Co. of California		Connection: None			
Pool: Basin Dakota		Formation: Dakota		Unit	
Completion Date: 11-24-75	Total Depth: 6181'	Plug Back TD: 6140'	Elevation: 6508' GL	Farm or Lease Name: Federal	
Csg. Size: 5-1/2" / Wt.: 15.5 / d: / Set At: 6177'		Perforations: From 5943' To 6009'		Well No.: 1	
Tbg. Size: 2-3/8" / Wt.: 4.7 / d: / Set At: 5889'		Perforations: From None To		Unit: H / Sec.: 24 / Twp.: 25 / Rge.: 11	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 5882'		County: San Juan	
Producing Thru: Tubing	Reservoir Temp. °F: 157 @ 6181'	Mean Annual Temp. °F: 50	Baro. Press. – P_a: 12.0	State: New Mexico	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
5882	5882'	0.675(est.)	- -	- -	- -	X		

	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	10 days				2002		Pkr		
1.	2 x 3/4				619	60	"		3 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	12.3650		631	1.0000	0.9608	1.069	8013
2							
3							
4							
5							

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NO.	P_t	Temp. °R	T_t	Z
1.				
2.				
3.				
4.				
5				

Gas Liquid Hydrocarbon Ratio: Not measured Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: " " Deg.
Specific Gravity Separator Gas: 0.675 (est.) XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: P.S.I.A. P.S.I.A.
Critical Temperature: R R

P_c 2014 P_c^2 4056196

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	398161	1352	1825576	2230620
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.7968$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.5517$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 12433$

Absolute Open Flow: 12433 Mcfd @ 15.025 Angle of Slope θ: Slope, n: .75

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Tefteller, Inc.	N. Tefteller	J. Roe John Roe