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: 9/24/76	
Company: Palmer Oil Company		Connection: EPNG		
Pool: Basin Dakota		Formation: Dakota		Unit: None
Completion Date: 9/17/76	Total Depth: 6937	Plug Back TD: 6903	Elevation: 6532' KB	Farm or Lease Name: State 16
Csg. Size: 4 1/2 / Wt.: 10.5 / d: / Set At: 6937		Perforations: From 6664 To 6876		Well No.: 1
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: / Set At: 6787		Perforations: From open ended To		Unit: G / Sec.: 16 / Twp.: 26 / Rge.: 8
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: None		County: San Juan
Producing Thru: Tubing	Reservoir Temp. °F: 146 @ 6937	Mean Annual Temp. °F:	Baro. Press. – P_a:	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		0.700						

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					1845		1872		7 day
1.	2 3/8 X .75	231		60	231	60	722	58	3 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	12.365		243	1.000	.9258	1.017	2829
2.							
3.							
4.							
5.							

NO.	P_r	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio: Unknown Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: not measured Deg.
Specific Gravity Separator Gas: XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: P.S.I.A. P.S.I.A.
Critical Temperature: R R

P_c 1884 P_c^2 3549456

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		734	538756	3010700
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{3549456}{3010700}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.1314$

AOF = $Q\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3200$

Absolute Open Flow: 3200 Mcfd @ 15.025 Angle of Slope θ: Slope, n: .75

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Harold W. Elledge	Harold W. Elledge	Joe F. Elledge