STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

RECEIVED
AUG 31 1984
OIL CON. DIV.

Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date: 8-6-84	
Company: Consolidated Oil & Gas		Connection: Gas Co. of New Mexico			Unit
Pool: Basin Dakota		Formation: Dakota			
Completion Date: 7-24-84	Total Depth: 6640'	Plug Back TD: 6594'	Elevation: 6745'KB	Farm or Lease Name: Navajo	
Csg. Size: 5-1/2" / Wt.: 15.5# / d: 4.950" / Set At: 6636'		Perforations: From 6526' To 6568'		Well No.: 3-E	
Tbg. Size: 1-1/2" / Wt.: 2.9# / d: 1.610" / Set At: 6558		Perforations: From To		Unit: K / Sec.: 11 / Twp.: 25N / Rge.: 10W	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: single		Packer Set At: none		County: San Juan	
Producing Thru: tubing	Reservoir Temp. °F:	Mean Annual Temp. °F:	Baro. Press. – P_a: 12.0	State: New Mexico	
L:	H:	Gg: .650est	% CO_2:	% N_2:	% H_2S:
Prover: 6"positive choke	Meter Run:	Taps: nipple			

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	7 days				1749		1763		
1.	2"x6"x3/4"				192	60	624	60	3 hours
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	11.00		204	1.000	1.240	1.021	2841
2.							
3.							
4.							
5.							

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

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 1775 P_c^2 3150625

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		636	404496	2746129
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1473$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.1086$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3149$

Absolute Open Flow 3149 Mcfd @ 15.025 | Angle of Slope θ 53.13 | Slope, n .75

Remarks:

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Richard Housh	Richard Housh	Neil Tefteller