STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special

Test Date: 5-21-84

Company: Consolidated Oil & Gas, Inc.	Connection: Southern Union		
Pool: ~~Undesignated~~ UGC Gallup	Formation: Gallup		Unit:
Completion Date:	Total Depth: 7082'	Plug Back TD: 7034	Elevation: 5911'KB
Farm or Lease Name: Leeds	Well No.: 1-E		

Csg. Size	Wt.	d	Set At	Perforations: From	To
5 1/2	17# & 15.5#	4.950	7079'	5962	6226

Tbg. Size	Wt.	d	Set At	Perforations: From	To
1 1/2	2.9#	1.610	6079		

Unit	Sec.	Twp.	Rge.
E	8	31	12

Type Well — Single — Bradenhead — G.G. or G.O. Multiple: Dual gas

Packer Set At: 6350

County: San Juan

State: New Mexico

Producing Thru	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. — P_a
tubing			12.0

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		.650				6" choke	Nipple	

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI					990	60	992	60	
1.	2" X 3/4" pos. choke				41		181		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		53	1.000	1.240	1.000	722.9
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 ______ X X X X X X X X X X
Specific Gravity Flowing Fluid X X X X X X ______
Critical Pressure ______ P.S.I.A. ______ P.S.I.A.
Critical Temperature ______ R ______ R

P_c 1004 P_c^2 1008.0

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		193	37.2	970.8
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0383$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0285$

$AOF = Q\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 743.5$

Absolute Open Flow 743.5 Mcfd @ 15.025

Angle of Slope θ 53.13

Slope, n 0.75

Remarks:

... Division	Conducted By:	Calculated By: Dick Baird	Checked By: