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 WELL

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 12/17/84	
Company: Union Texas Petroleum Corp.			Connection: Gas Company of New Mexico		Unit: OIL CON. DIV. DIST. 3
Pool: Basin Blanco Tapacito			Formation: Dakota Mesaverde Gallup		
Completion Date: 11/12/84	Total Depth: 7640		Plug Back TD: 7570	Elevation: 6745	Farm or Lease Name: Jicarilla "J"
Csg. Size: 5.500 / Wt.: 15.50 / d: 4.950 / Set At: 7639			Perforations: From 4854 To 7558		Well No.: 7-E
Tbg. Size: 2.375 / Wt.: 4.70 / d: 1.995 / Set At: 7507			Perforations: Open-Ended From To		Unit: K / Sec.: 36 / Twp.: 26N / Rge.: 5W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single (3 zones commingled)			Packer Set At: NA		County: Rio Arriba
Producing Thru: Tubing	Reservoir Temp. °F: #	Mean Annual Temp. °F:	Baro. Press. – P_a: 12		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
7627		0.650						

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	2"		3/4"				1334		1334		7 days
1.							239	73°	714		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	12.3650		251	0.9877	0.9608	1.022	3010
2.							
3.							
4.							
5.							

NO.	P_t	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 _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 1346 P_c^2 1,811,716

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		726	527,076	1,284,640
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.4103$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.2941$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3895$

Absolute Open Flow 3895 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n 0.75

Remarks: Lot of fluid - mostly light crude

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Bruce Voiles	Ken Roddy	