NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
JAN 5 1983
OIL CON. DIV.
DIST. 3

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 9/21/82	
Company: Northwest Exploration Company			Connection: New Well		Unit
Pool: Undesignated			Formation: Rusty Chacra		
Completion Date: 8/13/82	Total Depth: 1880'		Plug Back TD: 1860'	Elevation: 7003'	Farm or Lease Name: Natani
Csg. Size: 4.500 / Wt.: 10.5 / d: 4.052	Set At: 1879'		Perforations: From 1566' To 1659'		Well No.: #25
Tbg. Size: 2.378 / Wt.: 4.7 / d: 1.995	Set At: 1595'		Perforations: From To		Unit: O / Sec.: 18 / Twp.: 21N / Rge.: 5W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Gas - Single			Packer Set At: None		County: Sandoval
Producing Thru: Tubing	Reservoir Temp. °F: 6		Mean Annual Temp. °F:	Baro. Press. – P_a: 12.0	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		.618				Choke		

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					387		387		SIP
1.	2" X .750"	18		63	18		36		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	9.604		30	.997	1.272	1.003	366
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 _____ XXXXXXXXX

Specific Gravity Flowing Fluid XXXXX _____

Critical Pressure _____ P.S.I.A. _____ P.S.I.A

Critical Temperature _____ R _____ R

P_c 399 P_c^2 159201

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		48	2304	156897
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0147$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0110$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 370$

Absolute Open Flow 370 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: Produced medium mist of water throughout test. Vented 57 MCF.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Fred S. Hamrick	B.J. Broughton	BJB