

3 - NMOC

1 - Northwest Pipeline

1 - File

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☐ Initial ☐ Annual ☒ Special		Test Date 1-26- 81	
Company Dugan Production		Connection New Well	
Pool Basin Dakota		Formation Dakota	
Completion Date 1-18-81		Total Depth 6150'	Plug Back TD
Csg. Size 4 1/2"		Wt. 10.5#	Elevation 5583' GL
Set At 6144' RKB		Perforations: From 5844 To 6067	Farm or Lease Name Horace Smith
Tbg. Size 1 1/4"		Wt. 2.4#	Well No. #1R
Set At 5991 RKB		Perforations: From To	Unit NE/4 26 30 14
Type Well - Single - Brasshead - G.G. or G.O. Multiple Single - gas		Packer Set At	County San Juan
Producing Thru tbg.		Reservoir Temp. *F #	State New Mexico
Mean Annual Temp. *F		Baro. Press. - P _a	
L H G _g .702		% CO ₂	% N ₂
		% H ₂ S	Prover 2"
		Meter Run	Taps
FLOW DATA			
NO.	Prover Line Size	X	Orifice Size
SI			
1.	2"	X	3/8"
2.	2"	X	3/8"
3.			
4.			
5.			
RATE OF FLOW CALCULATIONS			
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m
1	2.378		696
2	2.378		340
3.			
4.			
5.			
Flow Temp. Factor F _t			
1			.987
2			.990
3.			
4.			
5.			
Gravity Factor F _g			
1			1.291
2			1.291
3.			
4.			
5.			
Rate of Flow Q, Mcfd			
1			2233
2			1062
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			
Specific Gravity Flowing Fluid X X X X X			
Critical Pressure P.S.I.A. P.S.I.A.			
Critical Temperature R R			
P _c 1843 P _w 3,396,649			
NO.	P _c	P _w	P _c ² - P _w ²
1		1354	1,833,316
2			1,563,333
3			
4			
5			
(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.1727$			
(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.7896$			
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3996$			
Absolute Open Flow 3996 Mcfd @ 15.025			
Angle of Slope @ Slope, n .75			
Remarks:			
Approved By Commission:		Conducted By: F.S. Hamrick	Calculated By: F.S. Hamrick
		Checked By: B.B.B.	