



ONE-POINT BACK-PRESSURE TEST REPORT - FORM 21

DEPARTMENT OF MINERAL RESOURCES
 OIL AND GAS DIVISION
 600 EAST BOULEVARD DEPT 474
 BISMARCK, ND 58505-0614
 SFN 18713 (02-2008)

Well File No.

PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.
 PLEASE SUBMIT THE ORIGINAL.

Type of Test Initial Annual Special			Date of Test						
Operator								Telephone Number	
Address						City		State	Zip Code
Well Name and Number				Qtr-Qtr	Section	Township N	Range W	County	
Field				Pool				Total Depth (Feet)	
Perforations (Feet) From To		Type Completion (Describe)					Packer Depth (Feet)		
Producing Through		Reservoir Temperature (°F) @ Feet		Mean Annual Temperature (°F)			Barometric Pressure, P _a (PSIA) 14.73		
L (Feet)	H (Feet)	G _g	%CO ₂	%N ₂	%H ₂ S	Prover ID	Meter Run ID In	Taps Type In	

TUBING DATA		CASING DATA		FLOW DATA						
No.	Pressure (PSIG)	Temperature (°F)	Pressure (PSIG)	Temperature (°F)	Prover Line Size (In)	Choke Orifice Size (In)	Pressure (PSIG)	Meter Differential Pressure h _w (In)	Temperature (°F)	Duration of Flow (Hour)
1.										

No.	Coefficient, F _b (24-Hour)	Square Root of h _w P _m	Pressure, P _m (PSIA)	Flow Temperature Factor, F _t	Gravity Factor, F _g	Super Compressibility Factor, F _{p_v}	Rate of Flow, Q (MCFD)
1.							

No.	P _r	Abs. Temperature, T (°R)	T _r	z
1.				

Gas Liquid Hydrocarbon Ratio		MCF/Bbl
API Gravity of Liquid Hydrocarbons		deg.
Separator Gas	Flowing Fluid	
Specific Gravity	Specific Gravity	
Critical Pressure	PSIA	Critical Pressure PSIA
Critical Temp.	°R	Critical Temp. °R

P _c (PSIA)	P _c ² /1000
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P _f (PSIA)	P _f ² /1000
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No.	P _t (PSIA)	P _t ² /1000	$\frac{P_c^2 - P_t^2}{1000}$	P _w (PSIA)	P _w ² /1000	$\frac{P_c^2 - P_w^2}{1000}$	P _s (PSIA)	P _s ² /1000	$\frac{P_f^2 - P_s^2}{1000}$
1.									

$$\frac{P_c^2}{P_c^2 - P_w^2} = \frac{\quad}{\quad} = \quad$$

$$\log \frac{P_c^2}{P_c^2 - P_w^2} = \quad$$

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

$$n \log \frac{P_c^2}{P_c^2 - P_w^2} = \quad$$

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

AOF	n	n Source	c
MCFD			

Signature	Printed Name	Title	Date
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