36-36

TICKET NUMBER 00561700

SUMMARY OF RESERVOIR PARAMETERS

USING HORNER METHOD FOR GAS WELLS

GAS GRAVITY 0.600 — TEMPERATURE 98.0 °F

NET PAY 46.0 ft — POROSITY 10.0 %

RADIUS OF WELL BORE 0.329 ft — VISCOSITY 0.013 cp

GAS DEVIATION FACTOR 0.867 — GAS PROPERTIES AT 1162.3 psig

SYSTEM COMPRESSIBILITY 778.50 $\times 10^{-6}$ vol/vol/psi

GAUGE NUMBER		7831						
GAUGE DEPTH		2797.0						
FLOW AND CIP PERIOD		1						UNITS
FINAL FLOW PRESSURE		409.1						psig
TOTAL FLOW TIME		66.1						min
CALC. STATIC PRESSURE	P^*	1162.3						psig
EXTRAPOLATED PRESSURE	$m(P^*)$	122.0						$\frac{mmpsi^2}{cp}$
ONE CYCLE PRESSURE	$m(P_{10})$	108.3						$\frac{mmpsi^2}{cp}$
PRODUCTION RATE	Q	560.0						MCFD
FLOW CAPACITY	kh	37.3152						md-ft
PERMEABILITY	k	0.81120						md
SKIN FACTOR	S	4.7						
DAMAGE RATIO	DR	2.1						
INDICATED RATE MAX	AOF_1	641.0						MCFD
INDICATED RATE MIN	AOF_2	599.1						MCFD
THEORETICAL RATE	$DR \times AOF_1$	1357.6						MCFD
THEORETICAL RATE	$DR \times AOF_2$	1269.0						MCFD
RADIUS OF INVESTIGATION	r_i	29.9						ft

REMARKS: ALL CALCULATED RESERVOIR PARAMETERS ARE EFFECTIVE TO GAS PRODUCTION. THE PRODUCTION RATE WAS DETERMINED FROM THE FINAL FLOWING SURFACE CONDITIONS (I.E. 150 PSIG ON A .375" CHOKE).

CALCULATED PARAMETERS MAY BE QUESTIONABLE DUE TO MARGINAL DEVELOPMENT OF THE BUILDUP PRESSURE DURING THE SHORTENED CLOSED-IN PERIOD.

NOTICE: BECAUSE OF THE UNCERTAINTY OF VARIABLE WELL CONDITIONS AND THE NECESSITY OF RELYING ON FACTS AND SUPPORTING SERVICES FURNISHED BY OTHERS, HRS IS UNABLE TO GUARANTEE THE ACCURACY OF ANY CHART INTERPRETATION, RESEARCH ANALYSIS, JOB RECOMMENDATION OR OTHER DATA FURNISHED BY HRS. HRS PERSONNEL WILL USE THEIR BEST EFFORTS IN GATHERING SUCH INFORMATION AND THEIR BEST JUDGMENT IN INTERPRETING IT BUT CUSTOMER AGREES THAT HRS SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES ARISING FROM THE USE OF SUCH INFORMATION EXCEPT WHERE DUE TO HRS GROSS NEGLIGENCE OR WILLFUL MISCONDUCT IN THE PREPARATION OF FURNISHING OF INFORMATION.

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