



COMPANY : PATTERSON PETROLEUM, INC.
LEASE : TOMAHAWK STATE "19"
WELL NO. : # 1
FIELD : VACUUM, N.
COUNTY/STATE : LEA / NEW MEXICO

TEST DATE : 04-06-99
D.S.T. NO. : 1
TEST TKT. NO. : 20502
INVOICE NO. : 18717
ORDER NO. :

FORMATION : PADDOCK
INTERVAL (ft) : 6180 TO 6209
TOTAL DEPTH (ft) : 6209
ELEVATION (ft) : 4092

HOLE SIZE (in) : 7.875
DRILL PIPE ID (in) : 3.75
DRILL COLLAR ID(in) : 2.25
DRILL COLLAR feet : 914

ANCHOR LENGTH (ft): 29
TOOL LENGTH (ft) : 71
TOOL O.D. (in) : 5
PACKER SIZE (in) : 7.00

RECORDER DATA
AK1-KUSTER / AMERADA

TOP RECORDER: IN
RECORDER NO. : 11026
CAPACITY (psi): 5025
DEPTH (ft) : 6190
CLOCK NO. : 20699
DURATION (hrs): 18

BOTTOM RECORDER: OUT
RECORDER NO. : 71878
CAPACITY (psi): 10000
DEPTH (ft) : 6195
CLOCK NO. : 71878
DURATION (hrs): 96

MUD PROPERTIES

MUD TYPE : FRESH WATER
MUD WT. (#/gal) : 8.40

WATER LOSS (cc) :
FILTER CAKE (in) : 1/32
VISCOSITY (sec) : 28

CHLORIDE PPM : 11400
RESISTIVITY(ohm-m): 0.68

EQUIPMENT DATA

CONVENTIONAL : YES
STRADDLE : NO
SELECTIVE ZONE : NO
SAMPLE CHAMBER : YES
GAS ANALYSIS : NO

ROTARY JARS : YES
NO. OF PACKERS : 2
SAFETY JOINT : YES
CIRCULATING SUB : YES
REVERSED OUT : NO

MULTIFLOW : NO
MILEAGE : NO
OPERATOR TIME : NO
OTHER : YES
AMERADA ELECTRONIC

SUCCESSFUL : YES

PACKER FAILURE : NO
TOOL PLUG : NO

DECIDED NOT TO TEST : NO

FAIL TO REACH BOTTOM : NO

TIME INTERVAL DATA (min)

TOOL OPENED : 7:00 AM

TOTAL TEST TIME: 274

INITIAL FLOW : 29
SECOND FLOW : 60
THIRD FLOW :

INITIAL SHUT-IN: 64
SECOND SHUT-IN : 121
THIRD SHUT IN :

TEST TOOL OPERATOR: TOMMY WILLIAMS