

JMP TEST SUMMARY

Pumping Unit: Double Diamond Date: 5-12-94

Address of Owner: _____ S. King

Total Dynamic Head: _____ G. Dove

a) pumping water level: _____ S. Chapman left

b) discharge pres.: IDWR gage _____ psi x 2.31 = _____ ft
 c) press. gage height (from center line of disch. pipe) _____ ft
 d) friction losses (pump intake to pressure gage) _____ ft

All ok
 C/Palletti
 Weir 36" Weir
 .49 A head
 3.46
 = 1553.

TDH = (a + b + c + d) = _____ ft

(see below) Q = _____ gpm

OHP = Q x TDH / 3960 = _____ hp

(see attached data) IHP = _____ hp

Eff. = OHP / IHP x 100 = _____ %

Electric Powered Pump Standards for Tested Efficiencies (from Pacific Gas and Electric Company 77 Beale Street, San Francisco, California 94106)				
Motor Size (HP)	Ratings			
	Low	Fair	Good	Excellent
3-5	41.9 or less	42-49.9	50-54.9	55 or above
7.5-10	44.9 or less	45-52.9	53-57.9	58 or above
15-30	47.9 or less	48-55.9	56-60.9	61 or above
40-60	52.9 or less	53-59.9	60-64.9	65 or above
75 +	55.9 or less	56-62.9	63-68.9	69 or above

Other flow meter data: ^{9.87}_{2.9} 1277

Amount _____ units _____ seconds 1) _____ 2) _____ 3) _____ Ave _____

Type MICROMETER Computed Flow Rate 1160 gpm

FLOW MEASUREMENT

OD = 10.14"
 Thick = 0.135"

Inside Dia. (D) = 9.87 in
 Inside radius IR = 4.935 in

Station Factors (F)	Stations (IR x F)		Velocity (V)	
	dec	in	R	L
A) 0.051		.25		3.5
B) 0.163		.80		4.0
C) 0.293*		1.45		4.25
D) 0.453		2.24		4.5
E) 0.684		3.38		4.83
F) 1.316		6.49		5.32
G) 1.547		7.63		5.38
H) 1.707*		8.424	5.05	5.10
I) 1.837		9.07		4.85
J) 1.949		9.62		4.2
Average Velocity (V):			<u>4.50</u>	

DECIMAL TO FRACTION
 CONVERSIONS
 (TO 1/16 INCH)

0.0000	-	0.0313	0
0.0313	-	0.0938	1/16
0.0938	-	0.1563	1/8
0.1563	-	0.2188	3/16
0.2188	-	0.2813	1/4
0.2813	-	0.3438	5/16
0.3438	-	0.4063	3/8
0.4063	-	0.4688	7/16
0.4688	-	0.5313	1/2
0.5313	-	0.5938	9/16
0.5938	-	0.6563	5/8
0.6563	-	0.7188	11/16
0.7188	-	0.7813	3/4
0.7813	-	0.8438	13/16
0.8438	-	0.9063	7/8
0.9063	-	0.9688	15/16
0.9688	-	1.0000	1

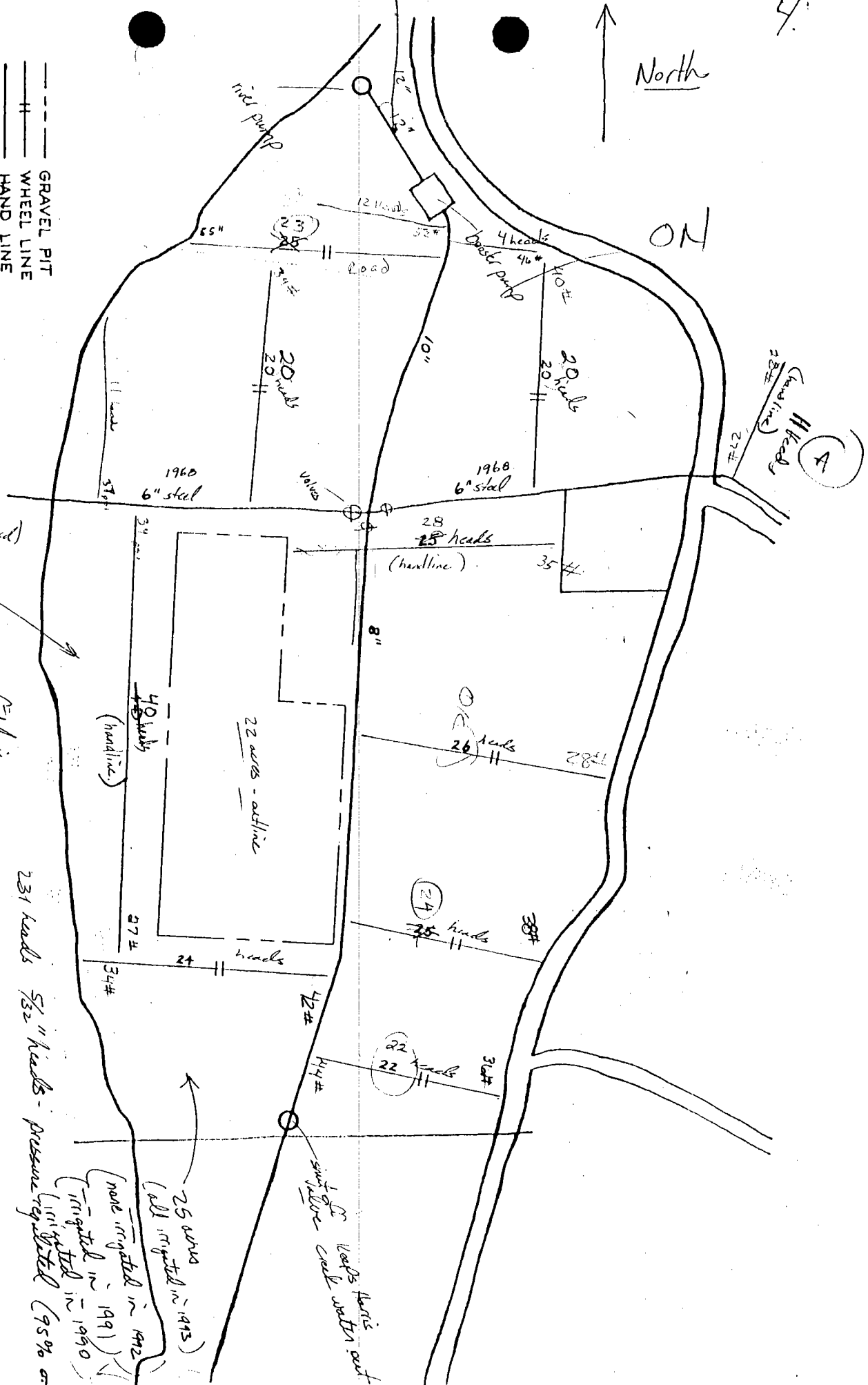
V (Hall) = _____

* two-point method

Flow: Q = 2.451 x V x (DIA)² x _____ corr. factor = 1074 gpm

North

--- GRAVEL PIT
 - - - WHEEL LINE
 ||| HAND LINE
 231 TOTAL HEADS



(not measured)
 size of this field is
 15 acres (all irrigated
 in 1993)
 (none irrigated
 in 1992)

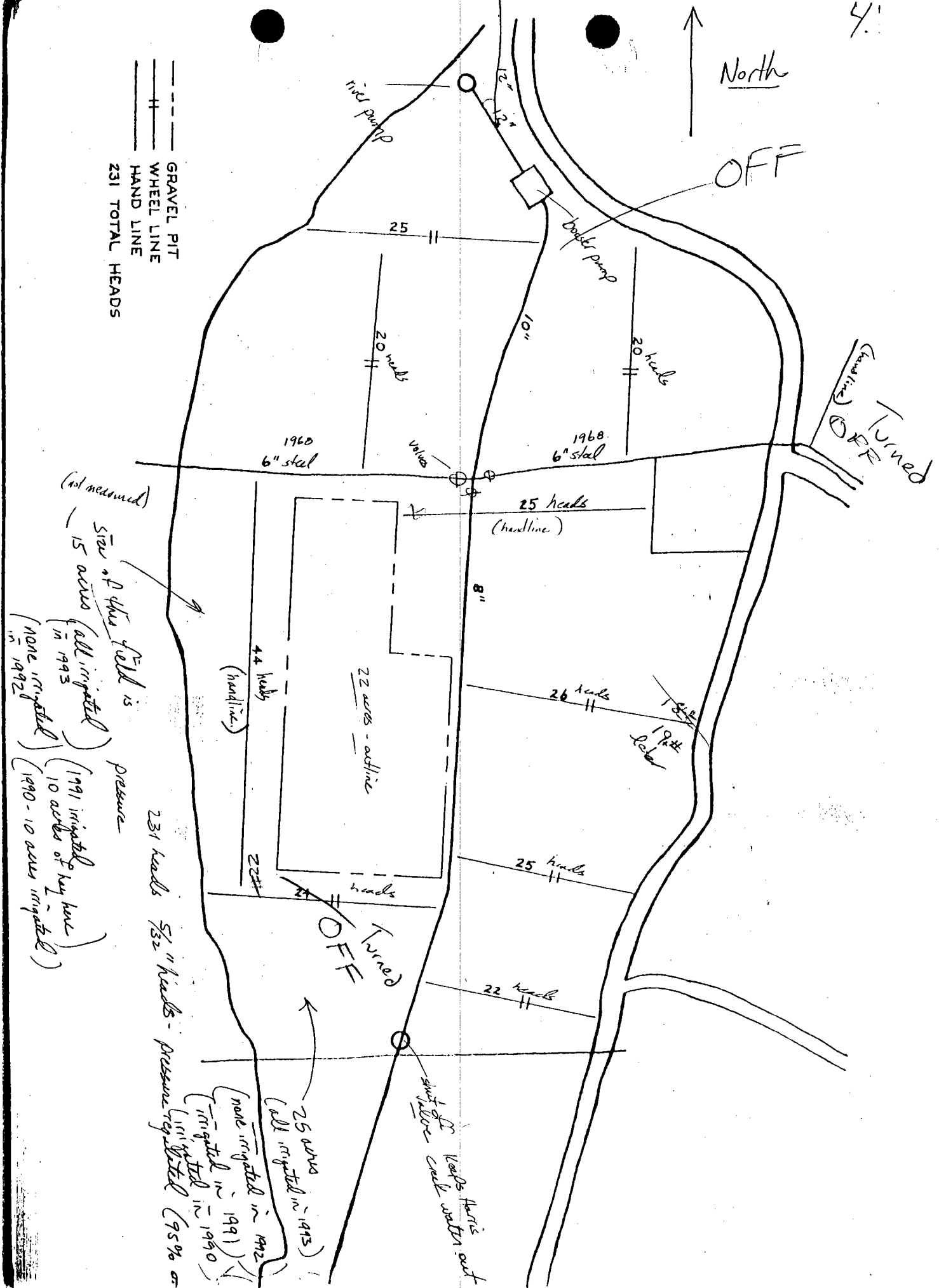
pressure
 231 heads 5 1/2" heads - pressure regulated
 (95% or more irrigated in 1992)
 (irrigated in 1991)
 (irrigated in 1990)

25 acres (all irrigated in 1993)
 (none irrigated in 1992)
 (irrigated in 1991)
 (irrigated in 1990)

wells have been out
 since 1990

North

--- GRAVEL PIT
 --- WHEEL LINE
 --- HAND LINE
 231 TOTAL HEADS



(not measured)
 size of this field is
 15 acres (all irrigated
 in 1993)

(none irrigated
 in 1992)
 (1991 irrigated by hand
 10 acres of hay base)
 (1990-10 acres irrigated)

pressure

231 heads

5 1/2" heads

pressure by steel (95% or
 more irrigated in 1992)
 (irrigated in 1991)
 (irrigated in 1990)

25 acres
 (all irrigated in 1975)

switch of heads turns out
 water creek water out

(handline)
 OFF
 Turned