

LAYNE PUMPS

P.O. Box 640/Twin Falls, Idaho 83301/Phone: 208/733-3284

Memorandum

to: SAWTHOTH SHEEP CO.
ATTN: MIKE FAULKNER

from:

subject:

refer to:

date: 10/22/02

DEAR MIKE:

PER YOUR REQUEST, I HAVE RESEARCHED YOUR FILE CONCERNING A 250 HP DEEP WELL TURBINE PUMP PURCHASED FROM US IN MAY OF 1993, BY SAWTOOTH SHEEP CO.

WE SHOW THE ABOVE PUMP WAS DESIGNED FOR 2980 GPM @ 252' TDH. THE FLOW WAS CALCULATED WITH A 232' LIFT OUT OF THE WELL AND APPROXIMATELY 20' OF FRICTION LOSS THRU THE PUMP COLUMN.

WE ARE ENCLOSING A PUMP CURVE ON THE 6 STAGE 12HHH270 IDP BOWL ASSEMBLY, VERIFYING THE PUMP DESIGN.

YOURS VERY TRULY,

LAYNE PUMPS, INC.


RAY WIGHT, MGR.



Received 11/6/2002
by IDWR

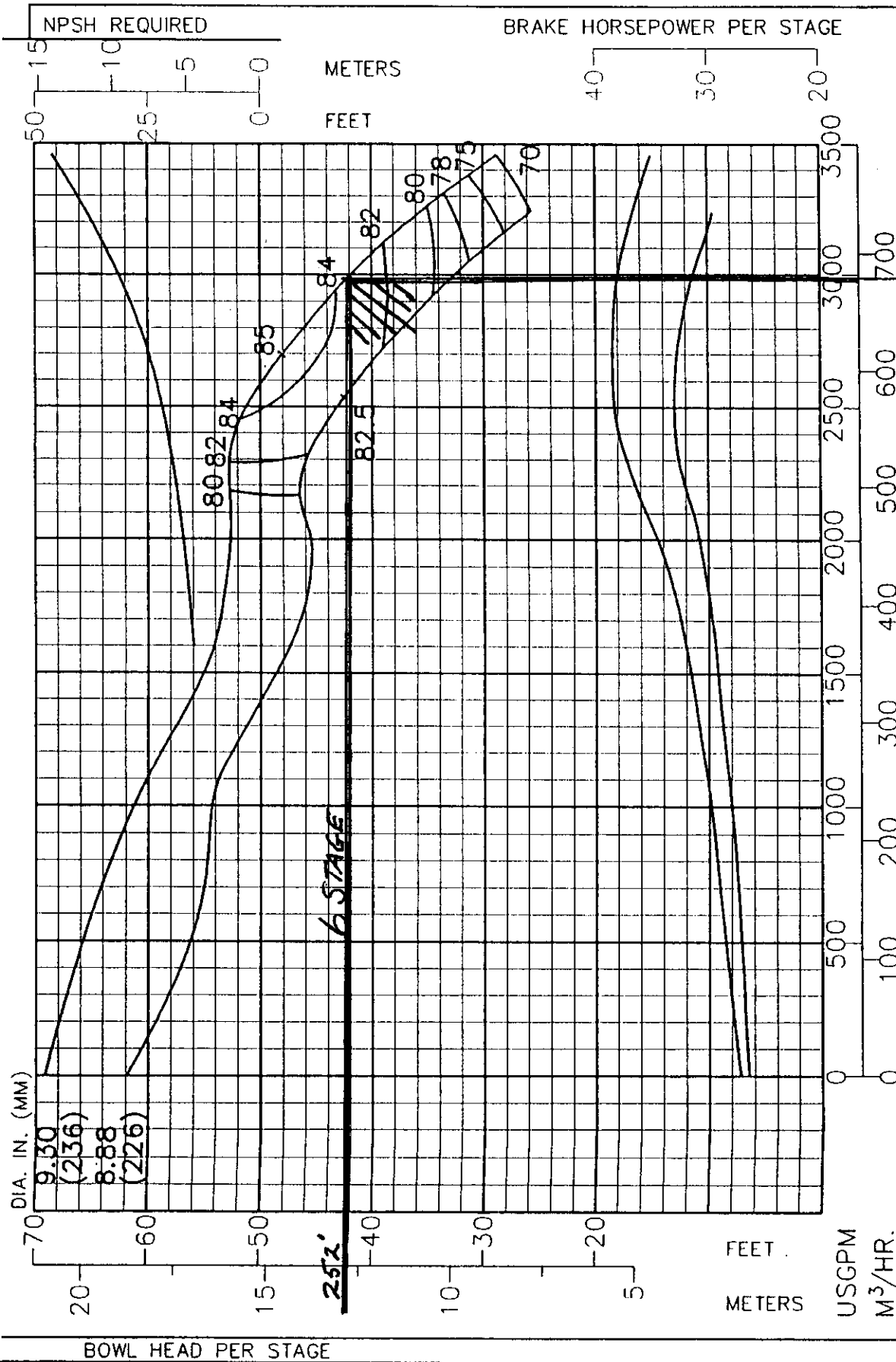


Ingersoll-Dresser
Pumps

VTP VERTICAL PUMPS

Sheet 520.51
December 1, 1993
New Sheet

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PERFORMANCE BASED ON PUMPING CLEAR WATER BELOW 85°F. WITH LISTED MATERIALS. COLUMN LOSSES NOT INCLUDED.		CHANGE IN EFF STAGES		POINTS		THRUST FACTORS AT BEP		RPM		PUMP	
BOWL - CAST IRON - LINED		1		-1.5		IMPELLER LBS/FT. KG/M		1770		12HH270	
IMPELLER - BRONZE		2		-1		STANDARD 13.4 20.0		ENCLOSED		CURVE NO.	
		3		-1.5		BALANCED ---		N _s = 5040		EC-2434	
						EYE AREA - 35.8 SQ. IN.					

2980 GPM