

Yates Petroleum Corporation
Hewitt IM Federal #4
API - 30-005-63337
Section 21, T6S-R25E
Chaves County, NM

31. PERFORATION RECORD (*Interval, size and number*)

Penn:	4592-4598'	24 holes	.38" holes
	4600-4606'	24 holes	.38" holes
	4638-4646'	32 holes	.38" holes
	4758-4762'	16 holes	.38" holes
	4812-4818'	24 holes	.38" holes
	4820-4824'	16 holes	.38" holes
	4874-4880'	24 holes	.38" holes
	4888-4894'	24 holes	.38" holes
	4910-4916'	24 holes	.38" holes
Abo:	3564-3570'	7 holes	.42" holes
	3588-3592'	5 holes	.42" holes
	3610-3614'	5 holes	.42" holes
	3658-3662'	5 holes	.42" holes
	3794-3800'	7 holes	.42" holes
	3868-3888'	21 holes	.42" holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
DEPTH INTERVAL AMOUNT AND KIND OF MATERIAL USED

Penn:	4592-4646'	1800 gals 7.5% IC HCL
	4758-4824'	1400 gals 7.5% IC HCL
	4874-4916'	1800 gals 7.5% IC HCL
	4592-4916'	Frac with 82,888 gals 70Q Co2 foamed WF135 with 4250# 100 mesh sand and 100,000# 20/40 Ottawa sand
Abo:	3564-3888'	500 gals 7.5% IC HCL
		Frac with 145,700 gals 65Q N2 foam with 308,000# 16/30 Brady sand