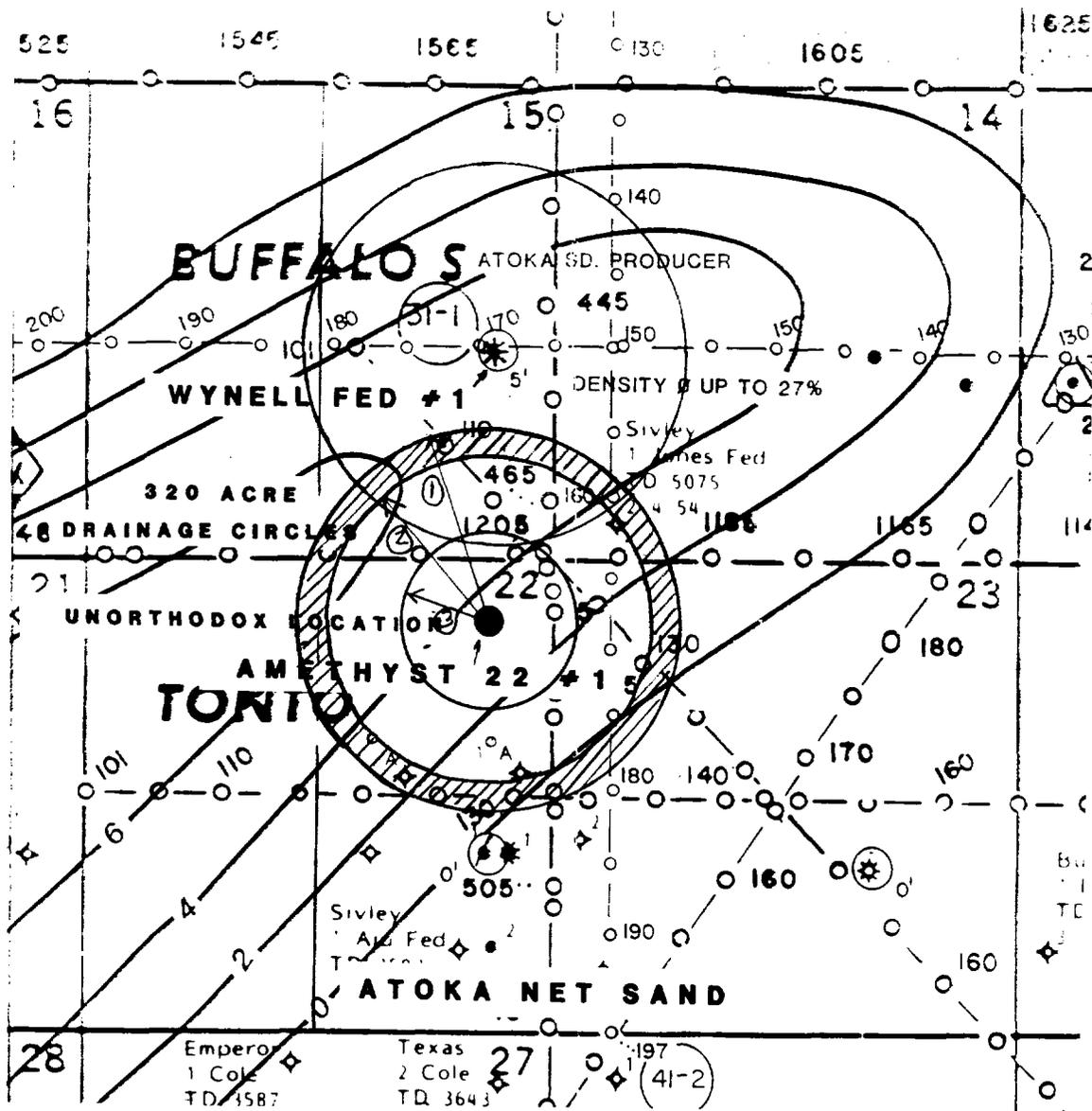


AMETHYST 22 #1 - UNORTHODOX LOCATION
STATE OF NEW MEXICO OIL CONSERVATION DIVISION
CASE NO. 9796
HEARING DATE: NOVEMBER 15, 1989
MEC EXHIBIT NO.

14



Assume drainage area is directly proportional to flow rate. Drainage circles are shown for Sante Fe's unorthodox location using several penalties as follows:

CASE	PENALTY	CIRCLE AREA, ACRES	RADIUS, FT
1	0	320	2106
2	29% (Sante Fe)	227	1775
3	79% (Mitchell)	67	965

Using Sante Fe's 29% penalty the amount of offset acreage drained is not significantly reduced (shaded region is reduced drainage area).