

Texaco Getty
FARMING E WELL NO. 3-E

This well is located in the NW $\frac{1}{4}$ NW $\frac{1}{4}$ section 2, T.24N., R.06W, YELLOW dot on Plat II. It was completed in 1981 and the completion data was unavailable. A flow test reported on 4-24-81 indicated a flowrate of 1720 MCF/day and SICP=1445 psia. This well produced 5 months in 1981 and 1 month in 1982 before the zone was abandoned, with Cumulative Production of 134,421 MCF; 1142 BO; and 20,000 BBLS of water. Obviously, this well was severely water damaged and had to be prematurely abandoned. Based on the single pressure test and the slope of the BHP/z plot of the Federal Well No. 3-E, the closest infill well drilled about the same time, one may conclude that the minimum Gas-in-Place for this well was hypothetically .95 BCF, with 85% recovery equal to .8075 BCF. This results in a loss of .673 BCF or 83.3% of its productive potential.

The attached plat and table of cumulative production for offset wells and wells on the same geologic trend show that it should have been a high potential well. The producing offsets had averaged recovery of 1.74 BCF at the close of 1983, with the lowest producer to the SE, the Farming E Well No. 1-E, which is located in a less favorable position of the pool. The two wells on trend to the NW producing at that time averaged 2.75 BCF and the Salazar Well No. 4-E drilled in 1984 as we have seen has a potential recovery of 4.0 BCF. All of these offset wells are still producing.

Therefore, this well certainly had an excellent potential for production. There is no other apparent reason for its poor performance except irreversible damage caused by water alteration of the reservoir face. This well also proves that water damage is possible and probable in this portion of the Basin Dakota pool if the water cannot be effectively removed from the well-bore, resulting in the premature abandonment of the damaged wells.

PRODUCTION TABLE

WELL NAME Farming E No. 3-E

Completion Date 1981

WELL LOCATION D-2-24N-6W

Initial Potential 4-24-81 q=1720 MCF/d

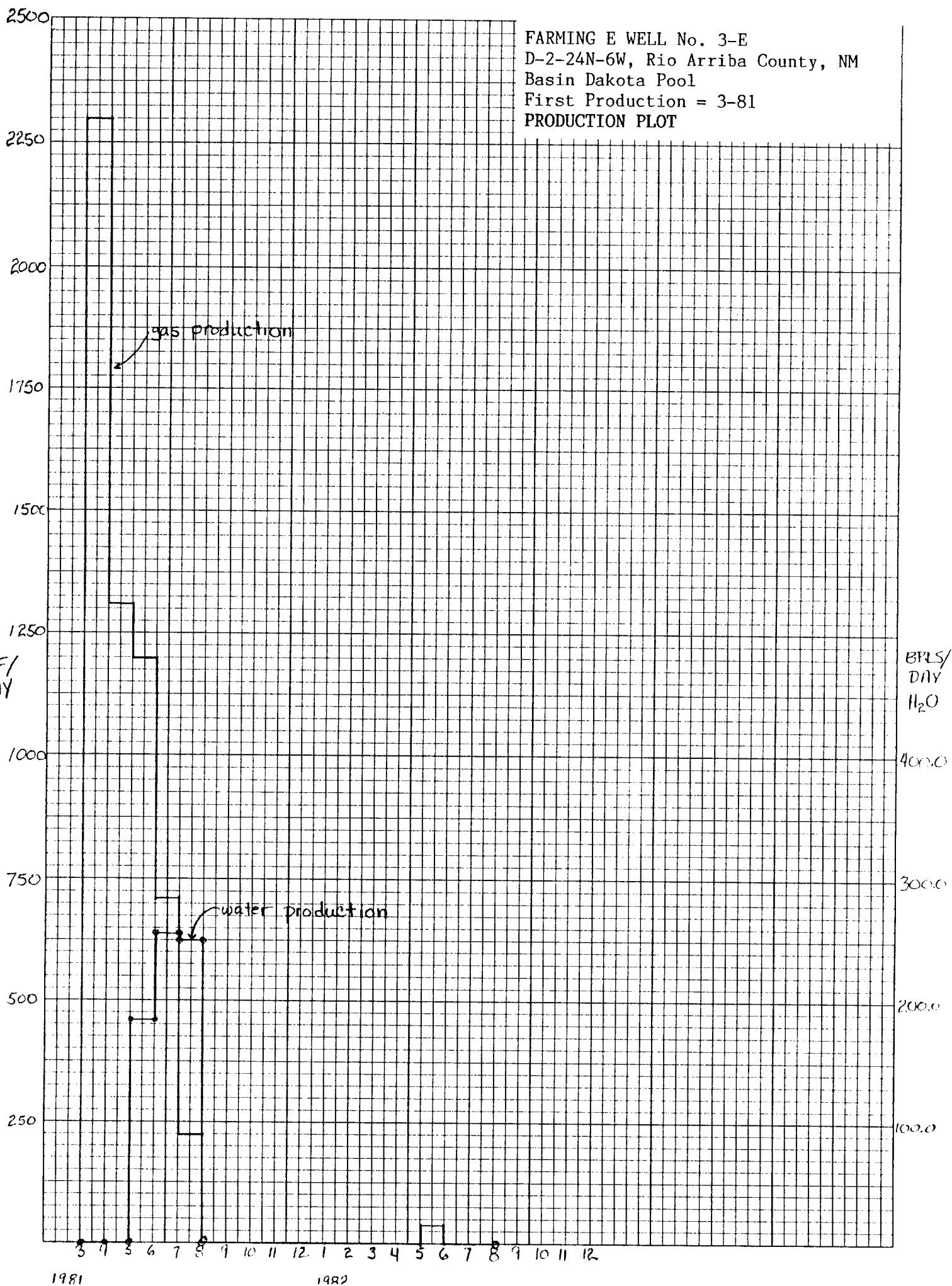
Perfs

Initial Pressure 4-24-81 SICP= 1445

Initial GOR/Gravity

[illegible]

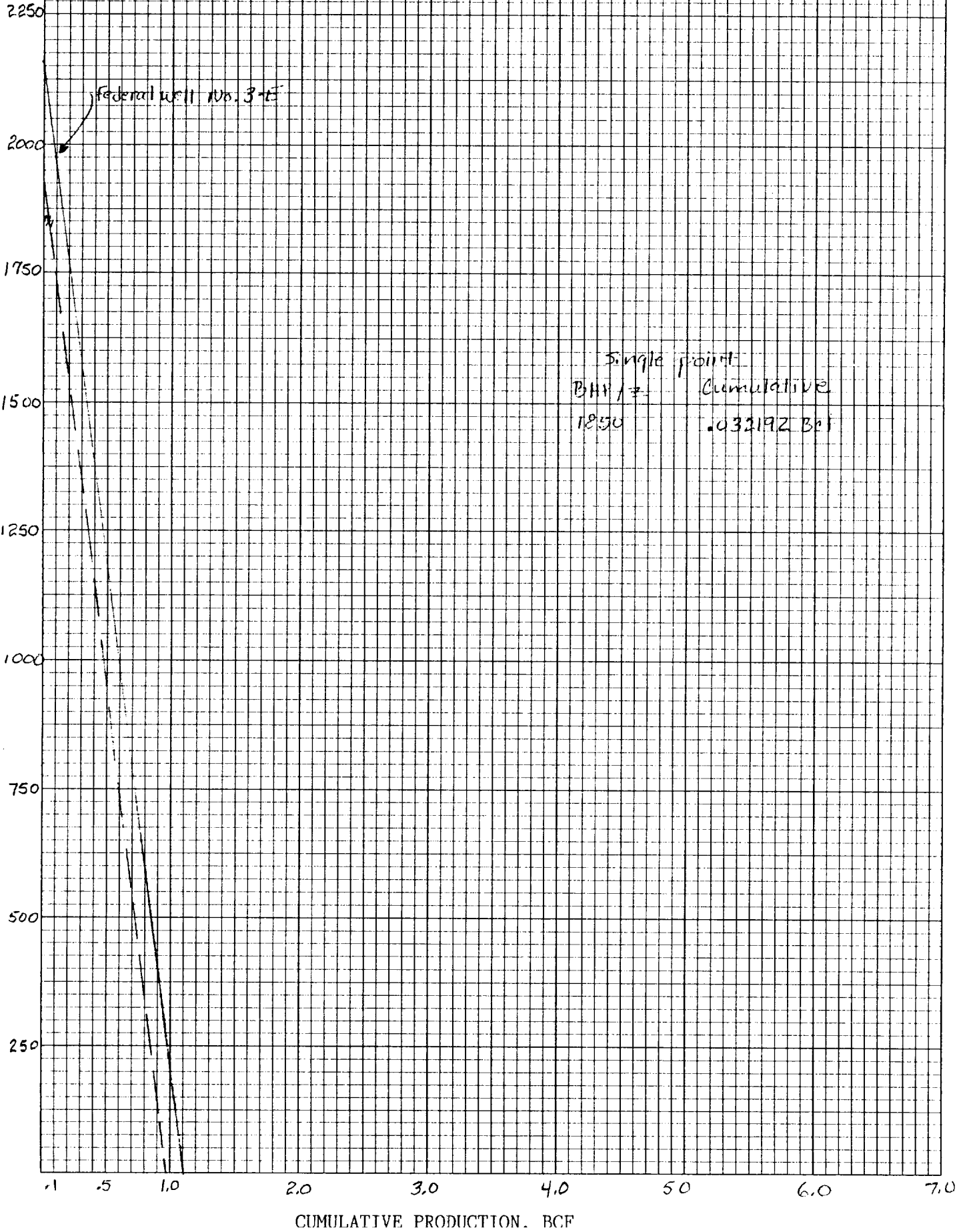
FARMING E WELL No. 3-E
D-2-24N-6W, Rio Arriba County, NM
Basin Dakota Pool
First Production = 3-81
PRODUCTION PLOT



FARMING E WELL No. 3-E
D-2-24N-6W, Rio Arriba County, NM
Basin Dakota Pool
HYPOTHETICAL BHP/Z vs CUMULATIVE PRODUCTION

DIETZGEN CORPORATION
MADE IN U.S.A.

NO. 340-10 DIETZGEN GRAPH PAPER
10 X 10 PER INCH



DAKOTA. WELLS

Meridian, Rio Arriba Co.

Notes

Basin Dakota Pool[illegible]

TABLE 1
Cumulative 1983 Production
Direct Offset Wells to
Farming E Well No. 3-E

WELL NAME	LOCATION	CUMULATIVE MCF	CUMULATIVE BO	CUMULATIVE BBLS WATER	STATUS
Farming E 3-E	D-02-24N-6W	134,456	1,142	20,000	abd
Farming E 3	K-02-24N-6W	809,330	3,260	2,485	prod.
Farming E 1	A-02-24N-6W	2,990,222	54,218	14	prod.
Farming E 1-E	I-02-24N-6W	113,317	1,305	0	prod.
Canyon Largo 117	H-03-24N-6W	1,236,782	4,679	0	prod.
Federal 3-E	I-34-25N-6W	306,082	1,991	542	prod.
Federal A 3	M-35-25N-6W	4,366,938	43,402	1,688	prod.
Warren Federal 2	O-35-25N-6W	2,331,030	13,511	3.336	prod.

TABLE 2
Cumulative 1983 Production
Formation ON-TREND Wells SE to NW
Farming E Well No. 3-E

WELL NAME	LOCATION	CUMULATIVE MCF	CUMULATIVE BO	CUMULATIVE BBLS WATER	STATUS
Federal 3	L-34-25N-6W	4,000,516	54,894	1,818	prod.
Canyon Largo 135	H-33-25N-6W	1,506,589	27,095	0	prod.
Salazar 4-E	F-34-25N-6W	0	0	0	prod.
		(1985 Cumulative 586,993)			