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DEVIATION SURVEY

Chaparral Federal No. 1w
2310' FNL & 660' FEL
Section 17-T24S-R24E
Eddy County, New Mexico

O. C. D.
ARTESIA, OFFICE

The following is a Deviation Survey of the above captioned well provided by Mr. Deane Kilbourne, American Trading & Production Corporation, Midland, Texas, December 30, 1980. The information is true and accurate to the best of my knowledge.

<u>Depth</u>	<u>Deviation</u>	<u>Depth</u>	<u>Deviation</u>
110	1/4°	4685	2-1/2°
290	1/2°	4791	2-3/4°
501	1/4°	4820	3-1/4°
780	1/4°	4860	3°
1030	1/4°	4938	3°
1260	1/2°	5018	3°
1506	1/2°	5115	2-1/4°
1725	1°	5282	2-1/2°
1950	3/4°	5320	2°
2240	1°	5628	1-1/2°
2405	2°	5860	1-1/4°
2560	2°	6310	1-1/4°
2654	1-1/2°	6770	1°
2895	1-1/2°	7294	1°
3147	3°	7510	1-1/4°
3252	3°	8000	1-1/2°
3300	3-1/4°	8030	1-1/4°
3335	3-1/2°	8525	1-1/2°
3365	3-1/4°	8685	1-1/4°
3398	3-1/4°	9180	1-1/2°
3470	3°	9660	2-1/4°
3523	3°	9945	2°
3586	2-1/2°	10130	2-1/2°
3680	2-3/4°	10300	3°
3785	2°		
3900	2-1/2°		
3960	2-1/4°		
4069	2°		
4185	2°		
4310	2°		
4478	2-1/4°		
4594	2-1/2°		

By: Juanita Goodlett
Juanita Goodlett, Engineering Secretary

Subscribed and sworn to before me this 30th day of December, A.D., 1980

My Commission Expires:
July 21, 1983

Barthyl Berpton
Notary Public