



Union Texas Petroleum Division
Suite 1122 Lincoln Tower
Denver, Colorado 80203

AFFIDAVIT OF DEVIATION SURVEYS

Subject well: Johnston-Federal #4 A
NW SE Section 33-T31N-R9W
Blanco Mesaverde Field
San Juan County, New Mexico



<u>Depth</u>	<u>Deviation - Degrees</u>	<u>Horizontal Displacement - feet</u>	<u>Cumulative</u>
260	1/2	2.26	2.26
725	3/4	5.57	7.83
1215	3/4	6.42	14.25
1746	3/4	6.96	21.21
2245	3/4	6.54	27.75
2746	3/4	6.56	34.31
3227	3/4	6.30	40.61
3700	1/2	4.12	44.73
4000	2-1/2	13.08	57.81
4300	3/4	3.93	61.74
4600	1	5.25	66.99
4909	1	5.41	72.40
5261	1	6.16	78.56
5680	1	7.33	85.89

Set cement plug and plug back to 3433'. Drill off with knuckle joint. Deviation in side-tracked hole below.

	Cumulative deviation to kick off point 3433'	42.40
3453	4-3/4	1.66
3485	5	2.79
3547	6	6.48
3702	6-1/2	17.55
4012	6-1/2	35.09
4321	6	32.29
4629	5	26.86
5009	4	26.52
5310	5-1/2	28.84
5610	2	10.47
		230.95

I hereby swear or affirm that the information given herewith is a complete and correct record of all deviation surveys on this well so far as can be determined from available records.

Signed Don Bahl
Position Assistant District Production Manager

The above Affidavit of Deviation Surveys was subscribed and sworn to before me this third day of April, 19 75.

Ruth E. Whitnell
Notary Public

My Commission expires April 22, 19 78.