

REPORT OF PROOF OF APPARENT DEVIATION

OPERATOR Wainoco Oil & Gas Company DISTRICT I
 FIELD Inbe Permo-Penn. Oil Pool COUNTY Lea
 WELL NAME & NO. Southland Farrar "C" #1 SEC. 13 T 11S R 33E

Degrees Deviation	Deviation Factor	DEGREES DEVIATION	DEPTH FROM SURFACE	LENGTH OF INTERVAL	DEVIATION FACTOR	DEVIATION OF INTERVAL	CUMULATIVE APPARENT DEVIATION	REMARKS
		1/2	892	892	.00873	7.787	7.787	
1/4	.00436	1/4	1278	386	.00436	1.682	9.469	
1/4	.00873	1	1686	408	.01745	7.119	16.588	
1	.01309	1	2186	500	.01745	8.725	25.313	
1	.01745	1	2615	429	.01745	7.486	32.799	
1 1/4	.02182	1 1/4	3111	496	.02182	10.822	43.621	
1 1/4	.02618	3/4	3401	290	.01309	3.796	47.417	
1 1/4	.03054	3/4	4020	619	.01309	8.102	55.519	
2	.03490	1-1/4	4521	501	.02182	10.931	66.450	
2 1/4	.03926	1-1/4	5017	496	.02182	10.822	77.272	
2 1/4	.04362	1	5688	671	.01745	11.708	88.980	
2 1/4	.04798	1	6180	492	.01745	8.585	97.565	
3	.05234	1-1/4	6675	495	.02182	10.800	108.365	
3 1/4	.05669	1-1/4	7271	596	.02182	13.004	121.369	
3 1/4	.06105	1-1/2	7382	111	.02618	2.905	124.274	
3 1/4	.06540	1-3/4	7841	459	.03054	14.017	138.291	
4	.06976	1	8138	297	.01745	5.182	143.473	
4 1/4	.07411	1	8621	483	.01745	8.428	151.901	
4 1/4	.07846	3/4	9120	499	.01309	6.531	158.432	
4 1/4	.08281	3/4	9519	399	.01309	5.222	163.654	
5	.08716	3/4	9746	227	.01309	2.971	166.625	
5 1/4	.09150	1/2	10200	454	.00873	3.963	170.588	
5 1/4	.09585							
5 1/4	.10019							
6	.10453							
6 1/4	.10887							
6 1/4	.11320							
6 1/4	.11754							
7	.12187							
7 1/4	.12620							
7 1/4	.13053							
7 1/4	.13485							
8	.13917							
8 1/4	.14349							
8 1/4	.14781							
8 1/4	.15212							
9	.15643							
9 1/4	.16074							
9 1/4	.16505							
9 1/4	.16935							
10	.17365							

Certified as Being True & Correct by

Pat Budde

Title Regulatory Coord. Date 10-14-81

STATE OF TEXAS §

BEFORE ME, the undersigned a Notary Public in and for the State of Texas,
on this day personally appeared Pat Budro, Regulatory Coordinator, known
to me to be the person whose name is subscribed to the foregoing instrument,
and acknowledged to me that she executed the same for the purposes and
consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, This 17th day of October, 1981.


Notary Public in and for
State of Texas

My commission expires 7/19/85.

RECEIVED

OCT 19 1981

W. C. CULBERTSON, JR.