Tabulation of Deviation Surveys --- B-R #4 Federal No. 1 --- Rig #2 - Job 3222

Feet	Deviation	Fee	et	Deviation	
214'	3/40	513	34•	3-1/4°	
462"	00	. 524	+7 <b>'</b>	3-1/2°	
725'	3/40	540	)3"	3-3/4°	
920'	1/40	558	381	3-1/4°	
1172'	3/40	583	37 <b>'</b>	2-1/4°	
1426'	1/2°	600	51	2 <b>-</b> 1/2 <sup>0</sup>	
1677'	3/4°	624	•O <b>1</b>	2 <sup>0</sup>	
1920'	1/2°	648	61	1-3/40	
2169'	3/40	676	61	1-1/40	
2449'	3/4°	712	5'	2 <sup>0</sup>	
2700'	3/40				
29491	3/40				
3447"	lo				
3695'	1 <b>-1/2°</b>	·			
3942	1-3/4°				
4192"	1-3/4°				
4441.	2 <sup>0</sup>				
46601	2-1/4°			, · · ·	
4909 <b>1</b>	3°			•••	· · · · ·
5031'	3-1/2°			4 KD Y	т. С Г. ј.

I certify that this Deviation Tabulation was supplied to me by Rowan Drilling-U.S. and is a true and correct tabulation of the Totco readings for this well.

Tommy Phipps, Executive Vice President

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THE STATE OF TEXAS COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me this \_\_\_\_\_\_day of July, 1972, by TOMMY PHIPPS, Executive Vice President of Black River forporation on behalf of said corporation.