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Tabulation of De	eviation Surveys -	Cities #3	- Federal N	io.2	Rig #2 = Job 3219
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Feet	Deviation		Fee	t <u>Devi</u>	ation
2001	1/2°		541	5' 3 -	1/40
495 *	1/2°		554	ı' 3-	1/40
730'	1/40		566	7' 3-	1/40
987 '	1/4°		579		1/40
1453"	3/40		592	2' 3	3/40
1696"	3/40		604	7' 3-	1/40
1949 '	3/4°		617.		3/40
2197'	3/4°		632'	7' 3 - :	3/40
24471	3/4°		645.		L/4°
2696"	3/4°		6608	3• 3-:	L/2 ⁰
29451	3/4°	;	6952	2-:	L/4°
3191'	3/4°				
34401	3/4°			·	
3688'	11/4°				
3905"	1-1/4°				
4120'	1-3/4°		•		
4357 '	2°				TE Co
4573 '	2-1/4°				
4823'	2-1/2°,				
5040 1	3-1/4°				an a
5317'	3-1/4°				$E_{\rm eff} = \frac{1}{2} \sum_{k=1}^{2} \frac{1}{2} \sum_{k$

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.

Tonmy Phipps, Executive Vice President

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 Corporation, on behalf of said corporation.