

CAYMAN CORPORATION
P.O. BOX 2099
PALOS VERDES PENINSULA, CALIFORNIA

HOBBS OFFICE O. C. C.
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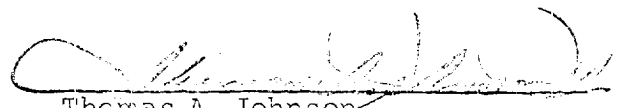
June 27, 1968

The following deviation tests were run by Sharp Drilling Co., Midland, Texas, at the depths indicated during the drilling of the Cayman Corporation No. 3A Murphy State, 1980' FSL, 660' FWL, Section 24, T-10-S, R-33-E, NMPPM, Lea County, New Mexico.

380'	3/4
880'	1/2
1390'	0
1890'	1/2
2390'	3/4
2614'	1-1/4
2930'	3/4
3374'	1
3850'	1
4000'	3/4
4413'	1/2
4701'	3/4
5146'	3/4
5495'	1-1/2
6090'	3/4
6490'	3/4
6855'	1/2
7220'	3/4
7460'	3/4
7875'	1-1/4
8085'	1
8292'	3/4
8431'	1
8660'	1/4
8765'	1/2
8835'	1/2
9174'	3/4
9247'	1
9342'	1-1/2
9470'	1
9560'	1-1/4
9693'	1
9855'	1

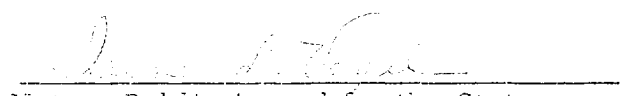
I attest that the information given herewith is complete and correct insofar as can be determined from the mechanical devices used in taking the described survey.

Date: June 27, 1968


Thomas A. Johnson
Cayman Corporation

Sworn to before me this 5th day of July, 1968.

My commission expires:
KATE L. VOGEL
My Commission Expires Nov. 9, 1969


Notary Public in and for the State
of California