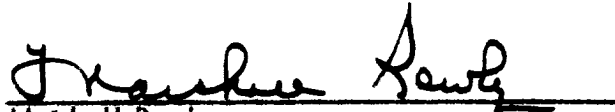


CARPER DRILLING COMPANY, INC.
and T. J. SIVLEY
Threlkeld, Et al No. 1 Fee
Unit A, Sec. 28, T 20S, R 34E

Deviation survey by Totco

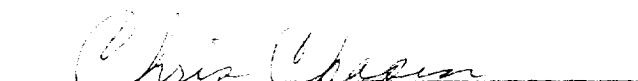
344'	1/4°	2251'	1 1/2°
659'	1/4°	2406'	1 1/2°
970'	1/4°	2560'	1 1/2°
1557'	1/2°	2713'	2 °
1881'	1 3/4°	2868'	2 1/2°
1943'	1 3/4°	3085'	2 3/4°
2099'	1 3/4°	3402'	3 1/4°

I hereby certify that the information given
above is true and complete to the best of my
knowledge.



Marshall Rowley
Exec. Vice-President
Carper Drilling Company, Inc.

Subscribed and sworn to before me this 5th day of November,
1962.


Notary Public In and for Eddy County,
New Mexico

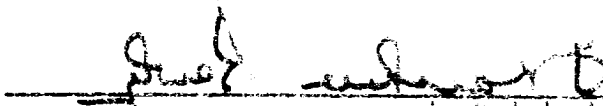
My commission expires: 10-15-63

CARPER DRILLING COMPANY, INC.
 and T. J. SIVLEY
 Threlkeld, Et al No. 1 Fee
 Unit A, sec. 38, T. 20N, R. 94E

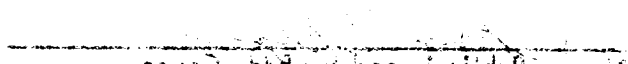
Deviation survey by Torco

1 1/2°	335'	1 1/4°	307'
1 1/2°	340'	1 1/4°	322'
1 1/2°	350'	1 1/4°	337'
2 0°	355'	1 1/2°	352'
2 1/2°	360'	1 3/4°	367'
2 1/2°	365'	1 3/4°	382'
2 1/4°	370'	1 3/4°	397'
2 1/4°	375'	1 3/4°	412'

I hereby certify that the information given
 above is true and complete to the best of my
 knowledge.


 Harold Kowalsky
 Exec. Vice-President
 Carper Drilling Company, Inc.

Subscribed and sworn to before me this _____ day of _____, 1965.


 Notary Public in and for Eddy County,
 New Mexico

My commission expires _____