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O. C. D.  
ARTESIA, OFFICE

Yates Petroleum Corporation  
Metcalf "LT" Com No. 1  
660' FSL & 1100' FWL of Section 31-18S-26E  
Eddy County, New Mexico

DEVIATION SURVEY

<u>Depth</u>	<u>Deviation</u>
400'	3/4 deg.
1000'	1 deg.
1514'	3/4 deg.
3040'	1 1/4 deg.
3510'	2 deg.
3819'	2 deg.
4065'	2 1/4 deg.
4240'	2 1/2 deg.
4378'	2-3/4 deg.
4563'	3-3/4 deg.
4625'	3-3/4 deg.
4688'	3 1/2 deg.
4785'	3-3/4 deg.
4874'	4 deg.
4935'	4 1/2 deg.
4966'	4 1/2 deg.
5029'	4 1/2 deg.
5096'	4 1/2 deg.
5153'	4 1/2 deg.
5245'	4 1/2 deg.
5369'	4 1/2 deg.
5462'	4 1/4 deg.
5587'	4 1/2 deg.
5743'	4 1/2 deg.
5869'	4-3/4 deg.
5960'	4-3/4 deg.
6053'	4 1/2 deg.
6177'	4 1/2 deg.
6367'	4 1/2 deg.
6579'	4 1/4 deg.
6858'	3 1/2 deg.
7078'	2 1/2 deg.
7573'	1-3/4 deg.
8395'	3/4 deg.
8491'	3/4 deg.
9070'	3/4 deg.

Sworn to this 20th day of February, 1980



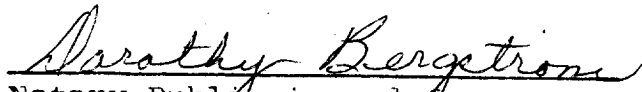
Christine Tomlinson  
Geol. Secty for  
Yates Petroleum Corporation

STATE OF NEW MEXICO )  
                                  : ss  
COUNTY OF EDDY        )

The foregoing instrument was acknowledged before me this 20th day of February, 1980 by Christine Tomlinson agent for Yates Petroleum Corporation.

My Commission expires

7-21-83

  
Dorothy Bergstrom  
Notary Public in and for  
Eddy County, New Mexico