



PATTERSON DRILLING COMPANY, L.P.

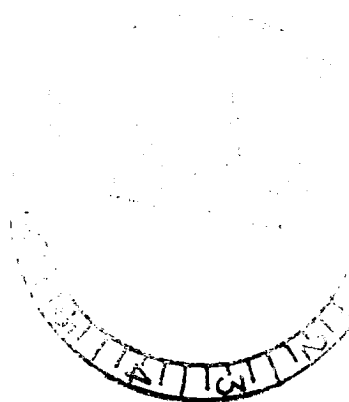
410 North Loop West, Suite 1000 Midland, Texas 79701

Telephone: (409) 692-1111 Fax: (409) 692-1112

April 6, 2001

Yates Petroleum Corporation
105 S. 4th St.
Artesia, NM 88210

Re: Deviation Report
Echo AWF Fed #1
Sec. 15, T-21-S, R-21-E



Gentlemen:

The following is a deviation survey on the above-referenced well located in Eddy County, New Mexico.

320' - 1.75	4844' - 1.75	6945' - 3.25
502' - 1.00	5036' - 2.50	7073' - 3.25
958' - 0.50	5290' - 2.50	7200' - 2.75
1398' - 0.75	5510' - 2.25	7327' - 3.50
1852' - 0.75	5734' - 2.00	7454' - 3.00
2329' - 0.75	6054' - 2.75	7582' - 3.75
2871' - 1.25	6435' - 2.50	7709' - 3.50
3412' - 1.00	6562' - 2.75	8000' - 4.00
3890' - 0.25	6690' - 2.75	
4366' - 1.00	6818' - 3.00	

Sincerely,

Treva Forrester

STATE OF TEXAS)

COUNTY OF MIDLAND)

The foregoing was acknowledged before me this 6th day of April, 2001 by Treva Forrester.

MY COMMISSION EXPIRES:

NOTARY PUBLIC