



Patterson Energy, Inc.
d.b.a. Patterson Drilling Company

P.O. Drawer 1416 • 915/573-1104
SNYDER, TEXAS 79550

June 19, 1996

Santa Fe Energy Resources, Inc.
550 West Texas Ave
Ste 1330
Midland, TX 79701

RE: Topaz 30 Federal #1 ^{Com} Unit E 30-20-34 1980/N & 660/W
30-025-33375

Gentlemen:

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

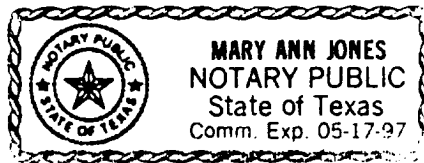
258' - 3/4°	6020' - 1 1/2°	12494' - 3/4°
400' - 3/4°	6490' - 1 3/4°	13427' - 1°
500' - 1/2°	7004' - 1 3/4°	13800' - 3/4°
1000' - 1/4°	7476' - 1°	14000' - 1 1/4°
1903' - 3/4°	7956' - 1/2°	
2225' - 3/4°	8456' - 1°	
2754' - 3/4°	8839' - 1/2°	
3172' - 1 3/4°	9250' - 3/4°	
3469' - 1 3/4°	9416' - 1°	
3853' - 1 3/4°	9734' - 3/4°	
4137' - 1/2°	10209' - 1/2°	
4614' - 1 1/2°	10689' - 1/2°	
4994' - 1°	11013' - 2 3/4°	
5284' - 1 1/2°	11511' - 1/4°	
5507' - 2°	12000' - 1°	

Sincerely,

Glenn Patterson

Glenn Patterson
President

STATE OF TEXAS)
)
COUNTY OF SCURRY)



The foregoing was acknowledged before me this 19th day of June 1996 by Glenn Patterson.

MY COMMISSION EXPIRES

05/17/97

Mary Ann Jones
NOTARY PUBLIC

2008
Received
Hobbs
OCD
129456789101112131415161718192021222324252627282930313233343536373839404142434445464748495051525354555657585960616263646566676869707172737475767778798081828384858687888990919293949596979899100