

PATTERSON DRILLING COMPANY  
P. O. DRAWER 1416  
SNYDER, TEXAS 79550

TO: SANTA FE ENERGY RESOURCES, INC.  
550 W. TEXAS, STE 1330  
MIDLAND, TX 79701

RIG # 71  
COUNTY EDDY  
LEASE HEAVY METAL 12  
WELL NO. FED #1  
DESCRIPTION SEC 12 T24S  
R31E

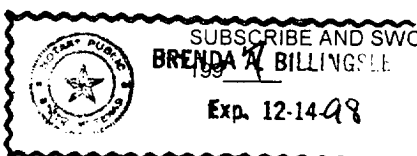
THE FOLLOWING SURVEYS WERE RUN ON THE ABOVE MENTIONED  
LEASE.

DEPTH	DEGREE		DEPTH	DEGREE		DEPTH	DEGREE	
329	1/2							
608	1							
1080	1/4							
1558	1/2							
2038	1							
2517	1 3/4							
2901	1 3/4							
3223	1							
3763	1/2							
4241	3/4							
4415	1 3/4							
4830	1 1/2							
5309	1 1/2							
5715	1							
6205	1							
6716	1 1/4							
7195	3/4							
7551	1							
8122	1							
8543	1							

DRILLING CONTRACTOR PATTERSON DRILLING COMPANY

BY

David Cain  
DAVID CAIN/ASST. DRILLING SUPERINTENDENT



Brenda A. Billingsley  
NOTARY PUBLIC

MY COMMISSION EXPIRES 12-14-98

SCURRY COUNTY TEXAS