

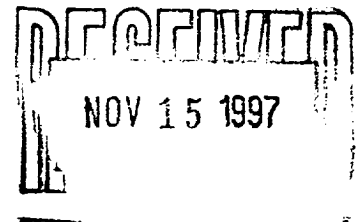
PATTERSON DRILLING COMPANY
P. O. BOX 1416
SNYDER, TEXAS 79550
915/573-1104

TO: PLAINS PETROLEUM OPERATING CO.
415 WEST WALL, STE 1000
MIDLAND, TEXAS 79701

RIG NO. 1
LEASE E. C. HILL B FEDERAL
WELL NO. 24 Unit I
LOCATION 34-235-37E
2280/S & 560/E
COUNTY LEA, NEW MEXICO
30-025-33889

THE FOLLOWING SURVEYS WERE RAN ON THE ABOVE LEASE

DEPTH	DEGREE	DEPTH	DEGREE	DEPTH	DEGREE
340	3/4	4274	1	9067	2 3/4
835	3/4	4416	3/4	9225	4 1/4
1311	3/4	4543	1	9363	4 1/4
1786	1/2	4702	1/2	9555	4 1/4
2261	2	5108	1/4		
2356	2	5590	1/4		
2419	2	6066	1 1/4		
2578	1 1/2	6287	1		
3030	1	6793	1/2		
3433	1 1/2	7269	1 1/2		
3813	3 2/5	7586	1 1/2		
3908	1 1/5	8021	1 1/2		
4034	1/2	8274	2		
4162	3/4	8749	2		



DRILLING CONTRACTOR: PATTERSON DRILLING COMPANY

BY David Cain
DAVID CAIN

SUBSCRIBED AND SWORN TO BEFORE ME THIS 14th DAY OF November, 1997

Brenda A. Billingsley
NOTARY PUBLIC

MY COMMISSION EXPIRES 12-14-98, SCURRY COUNTY, TEXAS.

