

Attachment to BLM Form 3160-4 (Item Nos. 24, 31 & 32)

ARCO Permian

Well: Barclay Federal #21

1980' FNL & 1980' FWL

Unit F

Section 1-T23S-R31E

Eddy County, New Mexico

24 PRODUCTION INTERVALS

8307' – 8305'

8288' – 8286'

8266' – 8264'

8194' – 8180'

7080' – 7066'

6960' – 6955'

6871' – 6867'

6858' – 6850'

6599' – 6594'

31. PERFORATION RECORD

8307' – 8305' - (1spf – 3 shots)

8288' – 8286' – (1spf – 3 shots)

8266' – 8264' – (1spf – 3 shots)

8194' – 8180' – (1spf – 8 shots)

7080' – 7066' – (1spf – 15 shots)

6960' – 6955' – (1spf – 6 shots)

6871' – 6867' – (1spf – 3 shots)

6858' – 6850' – (1spf – 5 shots)

6599' – 6594' – (1spf – 11 shots)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Frac'd 8180' to 8307' (17 holes) w/38,000 gals gel w/75,540# 16/30 White & 25,000# 16/30 Super LCsand

Frac'd 7066' to 7080' (15 holes) w/27,000 gals gel w/55,840# 16/30 White & 18,240# 16/30 Super LCsand

Frac'd 6850' to 6871' (3 holes) and 6955' to 6960 (6 holes)
w/30,500 gals gel w/63,130# 16/30 White & 22,024 60# 16/30 Super LCsand

Frac'd 6594' to 6599' (11 holes) w/24,000 gals gel w/51,740# 16/30 White & 15,060# 16/30 Super LCsand

REC-10
FEB 05 '01
BLM
ROSWELL, NM