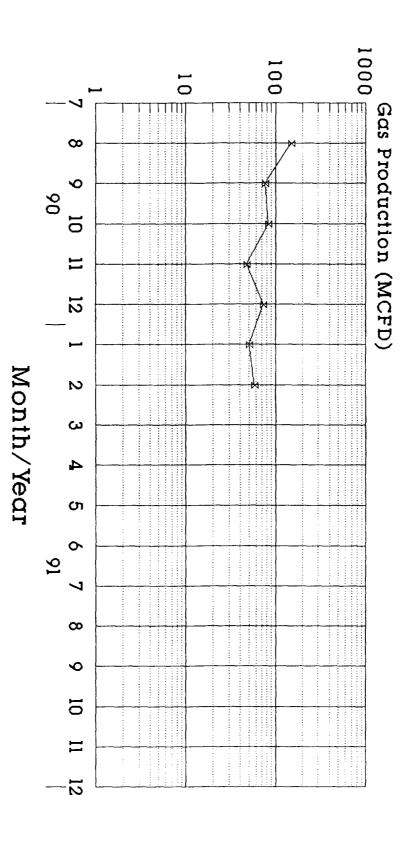
RINCON UNIT #277 RIO ARRIBA COUNTY, NEW MEXICO



Production based on actual days on

-¥ Gαs

UNOCAL North American Oil & Gas Division Economic Report Summary

REGION: Southwestern

DISTRICT: Farmington

CNTYSTATE: New Mexico

PROJECT NAME: RINCON U. #277 - FT TAXCR

LOCATION:

BUDGET CATEGORY: EFFECTIVE DATE: FEB 0
BUDGET PRIORITY: PROPOSED BY :

| IDEN | ITTETCATION | | D | POELT INDICES - | | DRESENT | UNDTH DONE! | 1 F |
|---------------------|---|------------|-------------|------------------|-----------|--------------------|--------------|--------|
| IDE. | TITICATION | | ŗ | BTAX | | FRESENT | WORTH FROIT | CL |
| FIELD : BASIN | FRUITLAND COAL | | PROFIT TO I | NV (P/I): | | DISCOUNT | BTAX | ATAX |
| LSE/BLOCK : | IELD : BASIN FRUITLAND COAL SE/BLOCK : | | | | 0.16 | | (M\$) | |
| FORMATION : FRUITE | AND COAL | | .0% -0.72 | | | | | |
| TOTAL DEPTH: | CAND COME | | DISC @ 15 | | -0.27 | | -152. | 44. |
| OPERATOR : Unocal | | | | IO (IER): | | 5.0 | - 180. | -11. |
| AFE # : | • | | UNDISCOUN | | n 19 | 10.0 | -197. | -48. |
| LIFE (YRS) : 30.5 | | | | .0% -0.72 | | 15.0 | -209. | -74. |
| CIFE (183) : 30.3 | | | | .0% -0.77 | | | -217. | -92. |
| | CDI | DATE | כו מ טכנט | .0% -0.77 | -0.33 | | | |
| WI ORI | | | DAVOUT AVEA | .RS) * | 0.5 | 25.0 | -222. | -106. |
| 100.00000 80.9987 | 0 80.99870 1 | MAT 1990 | | | | | | |
| | | | RAIE OF REI | URN (%) -1000.0 | 3.8 | DISCOUNT MATE | | |
| | | | ÷ | | | DISCOUNT MET | ioo. Liileii | VL MON |
| COMMOD 1 | TY PRICES | | INV | ESTMENTS (M\$) - | | CASH | FLOW (M\$) - | |
| | | AVG | | GROSS | | | | NET |
| | | | | | | | | |
| OIL (\$/BBL) | 0.00 0.00 | 0.00 | LEASEHOLD | 0. | 0. | TOTAL REVENUES | | 322 |
| GAS (\$/MCF) | | | DRY HOLE | 0. | 0. | EXPENSES: | | |
| NGL (\$/BBL) | 0.00 0.00 | 0.00 | | | | OPEX (LOE) |) | 109 |
| SULPHUR (\$/TON) | 0.00 0.00 | 0.00 | DRILLING | 0. | 0. | WORKOVER | | 0 |
| | | | COMPLETION | 0. | 0. | PLANT | | 0 |
| \$EQUIV BOE RATIO | 6.00 6.0 | 6.00 | PLATFORM | 0. | | | AL TAXES | 47 |
| | | | FACILITIES | 0. | 0. | INDIRECT | | 18 |
| UNIT CO | ST PERFORMANCE | | PIPELINE | 0. | 0. | OVERHEAD | | 25 |
| | GROSS | NET | PLANT | 0. | 0. | NET ABAND | /SALV | 0 |
| | | | GATHERING | 0. | 0. | | | |
| OPEX (\$/BOE) | 2.34 | 2.89 | | | | NET INVESTMENTS | | 275 |
| OPEX (\$/BO\$E) | 6.94 | 8.57 | MISC INTAN | 192. | 192. | | | -1.5 |
| F&D (\$/BOE) | 5.91 | 7.30 | MISC TAN | | 83. | BTAX CASH FLOW | | - 152 |
| F&D (\$/BO\$E) | 17.53 | 21.64 | | | | INCOME TAXES PAT | מו | -196 |
| ATAX CF (\$/BOE) | ,,,,,, | 1.16 | TOTAL | 275. | 275. | | | 44. |
| ATAX CF (\$/BO\$E) | | 3.43 | DISC @ 10.0 | | | | 0 % | -48 |
| KINA CI (\$750\$E7 | | 3.43 | 513C W 10.0 | ZiJ. | 213. | ATAX 013C W 10. | . 0% | -40. |
| | RESERVES & | PRODUCTION | | | | ASSUMPTIONS & REMA | ARKS | |
| | | | NET | | | | | |
| | REMAIN | | REMAIN UL | | | | | |
| OIL (MBBLS) | 0. 279. | 0. | n | | | | | |
| | 279. | 279. | 226. 2 | | | | | |
| GAS (MMCF) | 217. | 517. | | 26. | | | | |
| NGL (MBBLS) | | | | | | | | |
| SULPHUR (MTONS) | 0. | 0, | 0. | 0. | | | | |
| EQUIVALENT RESERVES | S: | | | | | | | |
| BTU (MBOE) | 47. | 47. | 38. | 38. | | | | |
| VALUE (MBOSE) | 16. | 16. | | 13. | | | | |
| | | | | | | | | |
| INITIAL RATE: | _ | | | | | | | |
| OIL (BBLS/DAY) | 0. | | | | | LES: 1= \$UNOCAL1 | 2≈ \$UNOCAL2 | |
| GAS (MCF/DAY) | 145. | | | | ALTKEY: U | SA | | |
| DATE: 04/20/9 | 71 TIME: | 09:04:35 | RPT FILE: | 4 PG # | 5 | PRJ FILE: P.A. | EVAL | # 7 |

:P.A. /AL #: 7

UNOCAL North American Oil & Gas Division Economic Report Summary AS OF MAY 1, 1990

DATE: 04/20/91 TIME: 09:04:35 PAGE: 6

ME : RINCON U. #277 - FT TAXCR

:ELD : BASIN FRUITLAND COAL

ITY, STATE: NEW MEXICO DRMATION : FRUITLAND COAL

PERATOR : UNOCAL

| | GROSS PROD | | | NET GAS | NET EQ PROD | | NET REV | EFFECTIVE | NET GAS | NET TOTAL |
|--|--|--|--|--|--|---|--|--|---|---|
| | | OIL + COND | | VOLUME | (RE: BOE) | | OIL + COND | GAS PRICE | REVENUE | REVENUE |
| 8MQ)1990 | 0.0 | 0.0 | 13.0 | 10.5 | | 0.00 | 0.0 | 1.63 | 17.2 | 17.2 |
| 1991 | 0.0 | | 19.3 | 15.6 | | 0.00 | 0.0 | 1.42 | 22.2 | 22.2 |
| 1992 | 0.0 | 0.0 | 17.5 | 14.2 | | 0.00 | 0.0 | 1.42 | 20.1 | 20.1 |
| 1993 | 0.0 | 0.0 | 15.9 | 12.9 | | 0.00 | 0.0 | 1.42 | 18.2 | 18.2 |
| 1994 | 0.0 | 0.0 | 14.8 | 12.0 | 2.0 | 0.00 | 0.0 | 1.42 | 16.9 | 16.9 |
| 1995 | 0.0 | 0.0 | 13.7 | 11.1 | 1.9 | 0.00 | 0.0 | 1.42 | 15.7 | 15.7 |
| 1996 | 0.0 | 0.0 | 12.8 | 10.4 | 1.7 | 0.00 | 0.0 | 1.42 | 14.7 | 14.7 |
| 1997 | 0.0 | 0.0 | 12.2 | 9.9 | 1.6 | 0.00 | 0.0 | 1.42 | 14.0 | 14.0 |
| 1998 | 0.0 | 0.0 | 11.6 | 9.4 | 1.6 | 0.00 | 0.0 | 1.42 | 13.3 | 13.3 |
| 1999 | 0.0 | 0.0 | 11.0 | 8,9 | 1.5 | 0.00 | 0.0 | 1.42 | 12.6 | 12.6 |
| 2000 | 0.0 | 0.0 | 10.5 | 8.5 | 1.4 | 0.00 | 0.0 | 1.42 | 12.0 | 12.0 |
| 2001 | 0.0 | 0.0 | 9.9 | 8.0 | 1.3 | 0.00 | 0.0 | 1.42 | 11.4 | 11.4 |
| 2002 | 0.0 | 0.0 | 9.4 | 7.6 | 1.3 | 0.00 | 0.0 | 1.42 | 10.8 | 10.8 |
| 2003 | 0.0 | 0.0 | 9.0 | 7.3 | 1.2 | 0.00 | 0.0 | 1.42 | 10.3 | 10.3 |
| 2004 | 0.0 | 0.0 | 8.5 | 6.9 | 1.1 | 0.00 | 0.0 | 1.42 | 9.8 | 9.8 |
| SUB TOTAL | 0.0 | 0.0 | 189.1 | 153.2 | 25.5 | 0.00 | 0.0 | 1.43 | 219.2 | 219.2 |
| REMAINDER | 0.0 | 0.0 | 90.0 | 72.9 | 12.1 | 0.00 | 0.0 | 1.42 | 103.2 | 103.2 |
| OT 30.5 YR | 0.0 | 0.0 | 279.1 | 226.0 | 37.7 | 0.00 | 0.0 | 1.43 | 322.4 | 322.4 |
| | | | | | | | | | | |
| | NET LOE | NET | NET TOTAL | NET TOTAL | NET ADMIN | NET TOTAL | BTAX | INCOME | XATA | CUM ATAX |
| | NET LOE | NET WORKOVR FXP | NET TOTAL | NET TOTAL | | | BTAX CASHFLOW | INCOME TAXES PAID | ATAX CASHFLOW | CUM ATAX |
| | (FIX + VAR) | WORKOVR EXP | DIRECT EXP | TAXES | EXPENSE | INVESTMENT | CASHFLOW | TAXES PAID | CASHFLOW | CASHFLOW |
| 8MO) 1990 | (FIX + VAR) | WORKOVR EXP | DIRECT EXP | TAXES | EXPENSE | INVESTMENT | CASHFLOW | • | CASHFLOW | CASHFLOW |
| 8MO)1990 1991 | (FIX + VAR) | WORKOVR EXP | DIRECT EXP | TAXES | EXPENSEM\$ | INVESTMENT | CASHFLOW | TAXES PAID | CASHFLOW | CASHFLOW |
| | (FIX + VAR)M\$ 1.5 | WORKOVR EXP M\$ 0.0 0.0 | DIRECT EXP M\$ 1.5 | TAXES M\$ 2.3 | EXPENSE M\$ 0.6 1.4 | INVESTMENT M\$ 275.0 | CASHFLOW M\$ -262.2 | TAXES PAIDM\$ | CASHFLOW M\$ -199.3 | CASHFLOW M\$ |
| 1991 | (FIX + VAR) M\$ 1.5 3.6 | WORKOVR EXP M\$ 0.0 0.0 0.0 | DIRECT EXP M\$ 1.5 3.6 | TAXES M\$ 2.3 3.3 | EXPENSE M\$ 0.6 1.4 1.4 | INVESTMENT M\$ 275.0 0.0 | CASHFLOW M\$ -262.2 13.9 | TAXES PAID M\$ -63.0 -22.3 | CASHFLOW M\$ -199.3 36.2 | CASHFLOW M\$ -199.3 -163.1 |
| 1991 1992 | (FIX + VAR)M\$ 1.5 3.6 3.6 | WORKOVR EXP M\$ 0.0 0.0 0.0 0.0 | DIRECT EXP M\$ 1.5 3.6 3.6 | TAXES M\$ 2.3 3.3 2.9 | EXPENSE M\$ 0.6 1.4 1.4 | INVESTMENT M\$ 275.0 0.0 | CASHFLOW M\$ -262.2 13.9 12.1 | TAXES PAIDM\$63.0 -22.3 -19.3 | CASHFLOW M\$ -199.3 36.2 31.4 | CASHFLOW M\$ -199.3 -163.1 -131.6 |
| 1991 1992 1993 | (FIX + VAR)M\$ 1.5 3.6 3.6 3.6 | WORKOVR EXP M\$ 0.0 0.0 0.0 0.0 0.0 | DIRECT EXP M\$ 1.5 3.6 3.6 3.6 | TAXES M\$ 2.3 3.3 2.9 2.7 | EXPENSE M\$ 0.6 1.4 1.4 1.4 | INVESTMENT M\$ 275.0 0.0 0.0 | CASHFLOW M\$ -262.2 13.9 12.1 10.5 | TAXES PAIDM\$63.0 -22.3 -19.3 -17.1 | CASHFLOW M\$ -199.3 36.2 31.4 27.6 | CASHFLOW M\$ -199.3 -163.1 -131.6 -104.0 |
| 1991 1992 1993 1994 | (FIX + VAR)M\$ 1.5 3.6 3.6 3.6 3.6 | WORKOVR EXP M\$ 0.0 0.0 0.0 0.0 0.0 | DIRECT EXP M\$ 1.5 3.6 3.6 3.6 3.6 | TAXES M\$ 2.3 3.3 2.9 2.7 2.5 | EXPENSE M\$ 0.6 1.4 1.4 1.4 1.4 | INVESTMENTM\$ 275.0 0.0 0.0 0.0 0.0 0.0 0.0 | CASHFLOW M\$ -262.2 13.9 12.1 10.5 9.4 | TAXES PAIDM\$63.0 -22.3 -19.3 -17.1 -15.5 | CASHFLOW M\$ -199.3 36.2 31.4 27.6 24.9 | CASHFLOW M\$ -199.3 -163.1 -131.6 -104.0 -79.1 |
| 1991 1992 1993 1994 1995 | (FIX + VAR)M\$ 1.5 3.6 3.6 3.6 3.6 3.6 | WORKOVR EXP M\$ 0.0 0.0 0.0 0.0 0.0 0.0 | DIRECT EXP M\$ 1.5 3.6 3.6 3.6 3.6 3.6 | TAXESM\$ 2.3 3.3 2.9 2.7 2.5 2.3 | EXPENSE M\$ 0.6 1.4 1.4 1.4 1.4 | INVESTMENTM\$ 275.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | CASHFLOW M\$ -262.2 13.9 12.1 10.5 9.4 8.4 | TAXES PAIDM\$63.0 -22.3 -19.3 -17.1 -15.5 -13.2 | CASHFLOW M\$ -199.3 36.2 31.4 27.6 24.9 21.6 | CASHFLOW M\$ -199.3 -163.1 -131.6 -104.0 -79.1 -57.5 |
| 1991 1992 1993 1994 1995 1996 | (FIX + VAR)M\$ 1.5 3.6 3.6 3.6 3.6 3.6 3.6 | WORKOVR EXP M\$ 0.0 0.0 0.0 0.0 0.0 0.0 | DIRECT EXP M\$ 1.5 3.6 3.6 3.6 3.6 3.6 3.6 | TAXESM\$ 2.3 3.3 2.9 2.7 2.5 2.3 2.2 | EXPENSE M\$ 0.6 1.4 1.4 1.4 1.4 1.4 | INVESTMENTM\$ 275.0 0.0 0.0 0.0 0.0 0.0 0.0 | CASHFLOWM\$262.2 13.9 12.1 10.5 9.4 8.4 7.5 | TAXES PAIDM\$63.0 -22.3 -19.3 -17.1 -15.5 -13.2 -10.3 | CASHFLOWM\$199.3 36.2 31.4 27.6 24.9 21.6 17.8 | CASHFLOWM\$ |
| 1991 1992 1993 1994 1995 1996 | (FIX + VAR)M\$ 1.5 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 | WORKOVR EXPM\$ 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | DIRECT EXP M\$ 1.5 3.6 3.6 3.6 3.6 3.6 3.6 3.6 | TAXESM\$ 2.3 3.3 2.9 2.7 2.5 2.3 2.2 2.1 | EXPENSE M\$ 0.6 1.4 1.4 1.4 1.4 1.4 | INVESTMENTM\$ 275.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | CASHFLOWM\$262.2 13.9 12.1 10.5 9.4 8.4 7.5 6.9 | TAXES PAIDM\$63.0 -22.3 -19.3 -17.1 -15.5 -13.2 -10.3 -8.6 | CASHFLOWM\$199.3 36.2 31.4 27.6 24.9 21.6 17.8 15.5 | CASHFLOWM\$199.3 -163.1 -131.6 -104.0 -79.1 -57.5 -39.7 -24.3 |
| 1991 1992 1993 1994 1995 1996 1997 1998 | (FIX + VAR)M\$ 1.5 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 | WORKOVR EXPM\$ 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | DIRECT EXP M\$ 1.5 3.6 3.6 3.6 3.6 3.6 3.6 3.6 | TAXESM\$ 2.3 3.3 2.9 2.7 2.5 2.3 2.2 2.1 1.9 | EXPENSE M\$ 0.6 1.4 1.4 1.4 1.4 1.4 1.4 | INVESTMENTM\$ 275.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | CASHFLOWM\$262.2 13.9 12.1 10.5 9.4 8.4 7.5 6.9 6.3 | TAXES PAIDM\$63.0 -22.3 -19.3 -17.1 -15.5 -13.2 -10.3 -8.6 -6.9 | CASHFLOWM\$199.3 36.2 31.4 27.6 24.9 21.6 17.8 15.5 13.2 | CASHFLOWM\$ |
| 1991 1992 1993 1994 1995 1996 1997 1998 1999 | (FIX + VAR)M\$ 1.5 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 | WORKOVR EXPM\$ 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | DIRECT EXP M\$ 1.5 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 | TAXESM\$ 2.3 3.3 2.9 2.7 2.5 2.3 2.2 2.1 1.9 1.9 | EXPENSE M\$ 0.6 1.4 1.4 1.4 1.4 1.4 1.4 1.4 | INVESTMENTM\$ 275.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | CASHFLOWM\$262.2 13.9 12.1 10.5 9.4 8.4 7.5 6.9 6.3 5.7 5.2 4.7 | TAXES PAIDM\$63.0 -22.3 -19.3 -17.1 -15.5 -13.2 -10.3 -8.6 -6.9 -6.7 -6.4 -6.2 | CASHFLOWM\$199.3 36.2 31.4 27.6 24.9 21.6 17.8 15.5 13.2 | CASHFLOWM\$ |
| 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 | (FIX + VAR)M\$ 1.5 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 | WORKOVR EXPM\$ 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | DIRECT EXP M\$ 1.5 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 | TAXESM\$ 2.3 3.3 2.9 2.7 2.5 2.3 2.2 2.1 1.9 1.9 1.8 | EXPENSE M\$ 0.6 1.4 1.4 1.4 1.4 1.4 1.4 1.4 | INVESTMENTM\$ 275.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | CASHFLOWM\$262.2 13.9 12.1 10.5 9.4 8.4 7.5 6.9 6.3 5.7 5.2 4.7 4.2 | TAXES PAIDM\$63.0 -22.3 -19.3 -17.1 -15.5 -13.2 -10.3 -8.6 -6.9 -6.7 -6.4 | CASHFLOWM\$199.3 36.2 31.4 27.6 24.9 21.6 17.8 15.5 13.2 12.4 11.6 | CASHFLOWM\$199.3 -163.1 -131.6 -104.0 -79.1 -57.5 -39.7 -24.3 -11.0 1.3 13.0 |
| 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 | (FIX + VAR)M\$ 1.5 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 | WORKOVR EXPM\$ 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | DIRECT EXP M\$ 1.5 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 | TAXESM\$ 2.3 3.3 2.9 2.7 2.5 2.3 2.2 2.1 1.9 1.9 1.8 1.7 1.6 1.5 | EXPENSEM\$ 0.6 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 | INVESTMENTM\$ 275.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | CASHFLOWM\$262.2 13.9 12.1 10.5 9.4 8.4 7.5 6.9 6.3 5.7 5.2 4.7 4.2 3.7 | TAXES PAIDM\$63.0 -22.3 -19.3 -17.1 -15.5 -13.2 -10.3 -8.6 -6.9 -6.7 -6.4 -6.2 -6.0 1.4 | CASHFLOWM\$199.3 36.2 31.4 27.6 24.9 21.6 17.8 15.5 13.2 12.4 11.6 10.9 10.2 2.3 | CASHFLOWM\$199.3 -163.1 -131.6 -104.0 -79.1 -57.5 -39.7 -24.3 -11.0 1.3 13.0 23.8 34.0 36.3 |
| 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 | (FIX + VAR)M\$ 1.5 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 | WORKOVR EXPM\$ 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | DIRECT EXP M\$ 1.5 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 | TAXESM\$ 2.3 3.3 2.9 2.7 2.5 2.3 2.2 2.1 1.9 1.9 1.8 1.7 1.6 1.5 1.4 | EXPENSEM\$ 0.6 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 | INVESTMENTM\$ 275.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | CASHFLOWM\$262.2 13.9 12.1 10.5 9.4 8.4 7.5 6.9 6.3 5.7 5.2 4.7 4.2 3.7 3.3 | TAXES PAIDM\$63.0 -22.3 -19.3 -17.1 -15.5 -13.2 -10.3 -8.6 -6.9 -6.7 -6.4 -6.2 -6.0 1.4 1.3 | CASHFLOWM\$199.3 36.2 31.4 27.6 24.9 21.6 17.8 15.5 13.2 12.4 11.6 10.9 10.2 2.3 2.0 | CASHFLOWM\$ |
| 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 | (FIX + VAR)M\$ 1.5 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 | WORKOVR EXPM\$ 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | DIRECT EXP M\$ 1.5 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 | TAXESM\$ 2.3 3.3 2.9 2.7 2.5 2.3 2.2 2.1 1.9 1.9 1.8 1.7 1.6 1.5 | EXPENSEM\$ 0.6 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 | INVESTMENTM\$ 275.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | CASHFLOWM\$262.2 13.9 12.1 10.5 9.4 8.4 7.5 6.9 6.3 5.7 5.2 4.7 4.2 3.7 3.3 -160.3 | TAXES PAIDM\$63.0 -22.3 -19.3 -17.1 -15.5 -13.2 -10.3 -8.6 -6.9 -6.7 -6.4 -6.2 -6.0 1.4 1.3 -198.7 | CASHFLOWM\$199.3 36.2 31.4 27.6 24.9 21.6 17.8 15.5 13.2 12.4 11.6 10.9 10.2 2.3 2.0 38.4 | CASHFLOWM\$ |
| 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 | (FIX + VAR)M\$ 1.5 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 | WORKOVR EXPM\$ 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | DIRECT EXP M\$ 1.5 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 | TAXESM\$ 2.3 3.3 2.9 2.7 2.5 2.3 2.2 2.1 1.9 1.9 1.8 1.7 1.6 1.5 1.4 | EXPENSEM\$ 0.6 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 | INVESTMENTM\$ 275.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | CASHFLOWM\$262.2 13.9 12.1 10.5 9.4 8.4 7.5 6.9 6.3 5.7 5.2 4.7 4.2 3.7 3.3 | TAXES PAIDM\$63.0 -22.3 -19.3 -17.1 -15.5 -13.2 -10.3 -8.6 -6.9 -6.7 -6.4 -6.2 -6.0 1.4 1.3 -198.7 3.2 | CASHFLOWM\$199.3 36.2 31.4 27.6 24.9 21.6 17.8 15.5 13.2 12.4 11.6 10.9 10.2 2.3 2.0 | CASHFLOWM\$ |

f:P.A. √AL #: 7

UNOCAL North American Oil & Gas Division Economic Report Summary AS OF MAY 1, 1990

DATE: 04/20/91 TIME: 09:04:36 PAGE: 7

ME : RINCON U. #277 - FT TAXCR
LELD : BASIN FRUITLAND COAL

ITY, STATE: NEW MEXICO ORMATION : FRUITLAND COAL

PERATOR : UNOCAL

| | | TOTAL GROSS | | NET NGL | EFFECTIVE | NET NGL | NET | NET PLANT | NET TRANS | NET ABAND |
|--|--|---|---|---|---|---|--|---|--|---|
| | INVESTMENT | | GROSS WELLS | VOLUME | NGL PRICE | REVENUE | SULPHUR | | +TREAT+COMP | |
| | | | | | | 0.0 | 0.0 | 0.0 | | |
| 840)1990 | 275.0 | 1.5 | | 0.0 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 0.0 |
| 1991 | 0.0 | 3.6 | | 0.0 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1992 | 0.0 | 3.6 | | 0.0 | 0.00 | 0.0 | 0.0 | | | |
| 1993 | 0.0 | 3.6 | | 0.0 | 0.00 | 0.0 | | 0.0 | 0.0 | 0.0 |
| 1994 | 0.0 | 3.6 | | 0.0 | 0.00 | | 0.0 | 0.0 | 0.0 | 0.0 |
| 1995 | 0.0 | 3.6 | | 0.0 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1996 | 0.0 | 3.6 | 1.0 | 0.0 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1997 | 0.0 | 3.6 | | 0.0 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1998 | 0.0 | 3.6 | | 0.0 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1999 | 0.0 | 3.6 | | 0.0 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2000 | 0.0 | 3.6 | | 0.0 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2001 | 0.0 | 3.6 | | 0.0 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2002 | 0.0 | 3.6 | | 0.0 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2003 | 0.0 | 3.6 | | 0.0 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2004 | 0.0 | 3.6 | | 0.0 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SUB TOTAL | 275.0 | 51.9 | | 0.0 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| REMAINDER | 0.0 | | | 0.0 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OT 30.5 YR | 275.0 | 108.9 | 1.0 | 0.0 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | | | | | | |
| | NET | NET | NET | NET | NET | NET | NET | TAX | TAX | IDC |
| | LEASEHOLD | DRY HOLE | DRILLING | COMPLETION | FACILITIES | PLATFORM | PIPELINE | DEPREC | DEPLETION | AMORT |
| | LEASEHOLD | DRY HOLE | DRILLING | COMPLETION | FACILITIES | PLATFORM | PIPELINE | DEPREC | DEPLETION | AMORT |
| 8MO)1990 | LEASEHOLD M\$ | DRY HOLEM\$ | DRILLING M\$ 0.0 | COMPLETION M\$ 0.0 | FACILITIESM\$ | PLATFORM M\$ 0.0 | PIPELINE M\$ 0.0 | DEPREC M\$ 11.9 | DEPLETION M\$ 0.0 | AMORT M\$ 4.8 |
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| 1991 1992 1993 1994 | LEASEHOLD M\$ 0.0 0.0 0.0 0.0 | DRY HOLEM\$ 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | DRILLINGM\$ 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | COMPLETIONM\$ 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | FACILITIESM\$ 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | PLATFORMM\$ 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | PIPELINEM\$ 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | DEPRECM\$ 11.9 20.3 14.5 10.4 7.4 7.4 7.4 | DEPLETIONM\$ 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | AMORTM\$ 4.8 11.5 11.5 11.5 6.7 0.0 |
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P.A. VAL #: 7

UNOCAL North American Oil & Gas Division Economic Report Summary AS OF MAY 1, 1990

DATE: 04/20/91 TIME: 09:04:38 PAGE: 8

AME : RINCON U. #277 - FT TAXCR IELD : BASIN FRUITLAND COAL

NTY, STATE: NEW MEXICO ORMATION : FRUITLAND COAL

PERATOR : UNOCAL

| | TEMP | TEMP | TEMP | TEMP | NET CREDITS |
|-------------|---------------------------------------|-------|-------|-------|-------------|
| | #1 | #2 | #5 | #6 | INPUT |
| - | · · · · · · · · · · · · · · · · · · · | | | | M\$ |
| 8MO)1990 | 15301.1 | 10.4 | 0.840 | 0.000 | 10.4 |
| 1991 | 22791.4 | 15.5 | 0.840 | 0.000 | 15.5 |
| 1992 | 20649.2 | 14.0 | 0.840 | 0.000 | 14.0 |
| 1993 | 18752.5 | 12.8 | 0.840 | 0.000 | 12.8 |
| 1994 | 17421.4 | 11.9 | 0.840 | 0.000 | 11.9 |
| 1995 | 16201.9 | 11.0 | 0.840 | 0.000 | 11.0 |
| 1996 | 15156.7 | 10.3 | 0.840 | 0.000 | 10.3 |
| 1997 | 14389.1 | 9.8 | 0.840 | 0.000 | 9.8 |
| 1998 | 13669.7 | 9.3 | 0.840 | 0.000 | 9.3 |
| 1999 | 12986.2 | 8.8 | 0.840 | 0.000 | 8.8 |
| 2000 | 12336.9 | 8.4 | 0.840 | 0.000 | 8.4 |
| 2001 | 11720.0 | 8.0 | 0.840 | 0.000 | 8.0 |
| 2002 | 11134.0 | 7.6 | 0.840 | 0.000 | 7.6 |
| 2003 | 1057 7.3 | 0.0 | 0.000 | 0.000 | 0.0 |
| 2004 | 10048.5 | 0.0 | 0.000 | 0.000 | 0.0 |
| SUB TOTAL | 223135.8 | 137.8 | 0.840 | 0.000 | 137.8 |
| REMAINDER | 106170.0 | 0.0 | 0.000 | 0.000 | 0.0 |
| TOT 30.5 YR | 329305.8 | 137.8 | 0.840 | 0.000 | 137.8 |

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               "RINCON U. #277 - FT TAXCR
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               "ASSUMES CONSTANT $.84 TAX CREDIT
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30 TEMP1
                         CON O.
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ILLEGIBLE

APPLICATION TO EXPAND THE BASIN FRUITLAND COAL GAS PARTICIPATING AREA - RINCON UNIT - RIO ARRIBA COUNTY, NEW MEXICO

Duane Spencer Chief of Reservoir Management Bureau of Land Management - Minerals Division 1235 La Plata Highway Farmington, New Mexico 87401

Union Oil Company of California, as unit operator of the Rincon Unit, respectfully submits for your approval the following described lands to constitute expansion to the participating area for the Basin Fruitland Coal Gas producing formation, to wit:

TOWNSHIP 27 NORTH, RANGE 7 WEST, N.M.P.M.

Section 14: North/2

Containing 320 acres, more or less

In support of this application, and in addition to the geologic and engineering reports, the following are attached:

- 1) Structure Top Basin Fruitland Coal Gas Formation
- 2) Basin Fruitland Coal Gas Formation Gross Isopach
- 3) Type Log
- 4) Land Map Rincon Unit
- 5) Rincon Unit #278 Fruitland Coal Gas Production Decline Curve
- 6) Rincon Unit #278 Fruitland Coal Gas Economics
- 7) Schedule of Lands and Working Interest Ownership in the expansion to the Basin Fruitland Coal Gas Participating Area (Participation Allocation Formula)
- 8) Applicant's Statement and Affidavit

This application is predicated on six months of actual production history from the Rincon Unit #278 well which first delivered on August 24, 1990.

Applicant respectfully requests your approval of the hereinabove selection of lands to constitute expansion to the Basin Fruitland Coal Gas Formation participating area, to be effective August 24, 1990.

Dated this 31st day of May, 1991

Bill Hering
District Petroleum Engineer

Union Oil Company of California

Well Summary

Well Name: Rincon Unit #278

Location: 1970'FNL, 970'FEL, Sec 14, T27N, R7W

Elevation: 6580' GL Total Depth: 3174'

Lease Number: NM-012209

Pool/Formation: Basin Fruitland Coal Gas

Spud Date: 5-6-90

Completion Date: 5-20-90 1st Delivery Date: 8-24-90

Perf'd Interval: 3020-3024,3039-3041,3045-3050,3054-3056,

3090-3092,3095-3108,3113-3126.

Geologic Summary

The Fruitland Formation was deposited in a coastal plain environment landward of the Pictured Cliffs strandline. It consists of shales, siltstones, sandstones and coal. The coals were deposited in low-lying areas such as lagoons, swamps and bayous behind the barrier islands, bars, and beaches of the Pictured Cliffs sandstone. The coal is best developed in the basal Fruitland, and extends aerially over the entire basin with the exception of a small region on the eastern margin. Net coal varies from 20 to 80 feet thick with the thickest sections being in the north-central part of the basin. The Rincon Unit coals range in thickness from 30 to 70 feet and in some areas of the unit are split into an upper and a basal coal zone. The coal itself is considered High Volatile C Bituminous in rank. Regional dip is 1 to 2 degrees to the northeast, and structure does not appear to be a factor in natural gas entrapment anywhere in the area of the unit.

Engineering Summary

The Rincon Unit #278 was drilled and completed by Union Oil Company of California as a Basin Fruitland Coal Gas producer in 1990. Surface pipe measuring 8-5/8" was set at 362 feet and cemented with 450 sacks to surface. Production casing measuring 4-1/2" was then set at 3173 feet and cemented in two stages to surface with 795 sacks cement. After drilling out to PBTD of 3172' the upper and lower coal zones were perforated from 3020'-3126' with 4 shots per foot and fracture stimulated with 285,000# 20/40 sand, 1.16MM SCF N2, and 27,000 gallons cross-linked gel water. The recorded initial potential and 24 hour shut-in pressure were 325 MCFD and 520 psi, respectively. The well was first delivered to the El Paso Natural Gas pipeline system on August 24, 1990. The current deliverability for the well against a 150# line pressure is 57 MCFD.

Volumetrics calculated on the below-listed parameters yields a recoverable gas volume of 0.35 Bcf.

Net Pay: 56 ft

Drainage area: 160 acres Gas Content: 125 SCF/ton

Tonnage Factor: 1847 tons/acre-feet (from density log)

Recovery Factor: 17 %

Economics

Completion Cost: \$267,000 Royalty Burden: 19.00% Gas Price: \$1.20/MMBTU Operating Cost: \$300/month

Tax Credit: \$0.84/MMBTU constant

Production Rate: Maximum - 222 MCFD, Current - 70 MCFD

No associated water production

Economics based on the above are attached. Given the investment cost to complete this well payout should occur in 7.3 years. Compared with net total revenue this Basin Fruitland Coal Gas well produces in economic quantities above operating costs.

STATE OF NEW MEXICO

COUNTY OF SAN JUAN

APPLICANT'S STATEMENT AND AFFIDAVIT

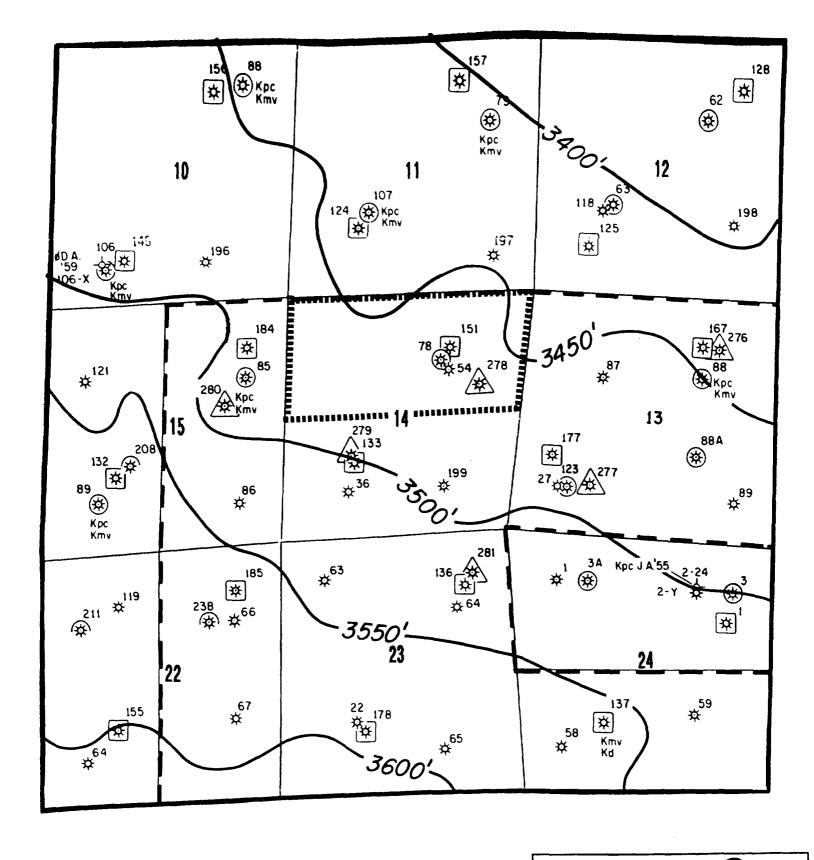
BEFORE ME, the undersigned authority on this day personally appeared Bill Hering, District Petroleum Engineer, known to me to be the person whose name is subscribed to this instrument, who, having been by me first duly sworn, upon oath states as follows:

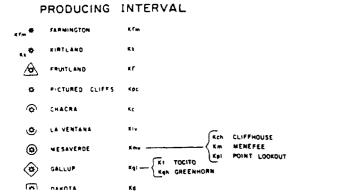
- 1) That this Statement and Affidavit is made concerning this application for expansion to the Basin Fruitland Coal Gas participating area in the Rincon Unit, in the N/2 Section 14, T27N-R7W, comprising 320 acres.
- 2) That to the best of his information, knowledge and belief, the information supplied is true.
- 3) That notice of this application has been mailed or delivered to the Rincon Unit working interest owners in accordance with the unit agreement and the unit operating agreement.
- 4) That he certifies that the information and data contained in the application are true and correct and that all copies of records or summaries of such records relied upon in the application are true, correct and authentic copies of documents on file in the offices of Union Oil Company of California.
- 5) That he is of lawful age, that he is a responsible official of Union, that he is duly authorized to make this Statement and Affidavit on behalf of Union, that he has knowledge of the facts contained herein, that this Statement and Affidavit is true and correct, and that he adopts the allegations herein as his sworn statement.

SUBSCRIBED AND SWORN TO before me, this undersigned authority, on this day of May 31, 1991.

Notary Public in and for San Juan County, New Mexico

My Commission Expires:





RINCON UNIT RIO ARRIBA COUNTY, NEW MEXICO STRUCTURE BASE OF FRUITLAND COAL RINCON UNIT # 278 N1 SEC. 14 -T27N R7W SCALE 2 1/2"=1 Mi, |C1 50" INTERP BY D.V. H

DRAFT BY

UNOCAL

