



JOHN WEST
ENGINEERING
COMPANY

412 North Dal Paso
Hobbs, New Mexico 88240

JANUARY 8, 1980

RECEIVED

FEB 6 1980

O. C. D.
ARTESIA, OFFICE

~~MR. J. ROBERT MEYER~~
~~OAK BROOK EXECUTIVE PLAZA~~
~~1211 22ND STREET~~
~~OAK BROOK, ILLINOIS 60521~~

RE: J. M. LEWELLING No. 1 D-12-12-9
W J Conover
steno city

DEAR SIR:

THE FOLLOWING IS A DESCRIPTION AND TABULATION OF FLOW TESTS RUN ON THE ABOVE CAPTIONED WELL.

THE FIRST FLOW PERIOD LASTED 8 HOURS, AND THE SURFACE PRESSURE WAS CONTINUING TO DROP. THE RATE WAS NOT STABILIZED, BUT CALCULATED ON THE LAST PRESSURE, IT WAS PRODUCING 39 MCF PER DAY.

THE SECOND RATE WAS ALSO NOT STABILIZED; IT WAS CONTINUING TO DROP AND FELL BELOW 50 PSI, THE MINIMUM PRESSURE THAT CAN BE READ ON A DEAD WEIGHT TESTER. AFTER 7 HOURS THE RATE WAS STILL DROPPING RAPIDLY. IT WAS DOWN TO 15 MCF PER DAY, AND WAS CONTINUING TO DROP WHEN THE SECOND RATE WAS CONCLUDED.

IT IS OUR OPINION THAT ANOTHER 2 HOURS WITH THE 1/8 INCH ORIFICE PLATE WOULD HAVE BROUGHT THE PRESSURE DOWN TO ZERO.

FORMULAS USED TO CALCULATE MCF PER DAY

ORIFICE PLATE SIZE	PSIA X COEFFICIENT X GRAVITY FACTOR X TEMPERATUR FACTOR = MCF / DAY					
1/16 INCH	465.2 X	.06405	X	1.278	X	1.024 = 39 MCF / DAY
1/8 INCH	43.2 X	0.2648	X	1.278	X	1.023 = 15 MCF / DAY