



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

DEAR SIR:

WJ Conover
NW NW 12-125-9C
Artesia City



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.

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FORMULAS USED TO CALCULATE MCF PER DAY
ORIFICE SIZE PSIA X COEFFICIENT X GRAVITY FACTOR X TEMPERATUR FACTOR = MCF/DAY
OIL CORRECTION
SANTA FE

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

THE FOLLOWING IS A TABULATION OF THE INFORMATION COMPILED IN THE FIELD.

TEST DATE: DECEMBER 26, TO DECEMBER 27, 1979

TEST DEPTH: 7,870 FEET

BEGIN FLOW RATE WITH 1/16 INCH ORIFICE PLATE @ 3:30 PM.

<u>TIME</u>	<u>TUBING PRESSURE</u>	<u>TEMPERATURE</u>	<u>CASING PRESSURE</u>
10:30 PM	515	36°	0
10:45 PM	496	36°	0
11:00 PM	482	36°	0
11:15 PM	465	36°	0
11:30 PM	452	36°	0

SHUT WELL IN; CHANGE ORIFICE PLATE TO 1/8 INCH

DECEMBER 27, 1979

6:30 AM	LESS THAN 50	37°	0
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SHUT WELL IN FOR BUILD-UP

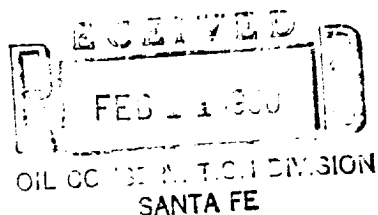
7:00 AM	144
7:30 AM	204
8:00 AM	253
8:30 AM	299

11:30 AM 501 GAUGE OUT; END TEST

IT IS OUR SINCERE HOPE THAT YOU WILL FIND THIS INFORMATION SATISFACTORY, AND IF WE MAY BE OF FURTHER ASSISTANCE TO YOU IN THE FUTURE, PLEASE DO NOT HESITATE TO CALL.

RESPECTFULLY SUBMITTED,

JOHN WEST ENGINEERING COMPANY



CC: MR. F. NICCUM

BY

John W. West
JOHN W. WEST

P.E.