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STATE OF NEW MEXICO
ENERGY and MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

Location of Well: (0)

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OIL CONSERVATION DIVISION
NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator: AMOCO PRODUCTION COMPANY Lease/Well #: Order A# 3E
Meter #: 490630 - GCNM RTN: — Dakota County: SAN JUAN
93817 - El Paso 213 CHACRA

	NAME RESERVOIR OR POOL	TYPE PROD	METHOD PROD	MEDIUM PROD
UPR COMP	<u>Order A 3E</u> <u>CHACRA</u>	GAS ✓	FLOW ✓	TBG ✓
LWR COMP	<u>Order A 3E</u> <u>Dakota</u>	GAS ✓	FLOW ✓	TBG ✓

PRE-FLOW SHUT-IN PRESSURE DATA

	Hour/Date Shut-In	Length of Time Shut-In	SI Press. PSIG	Stabilized
UPR COMP	<u>3/3/95</u> <u>2:30</u>	<u>72 Hrs</u>	<u>Tubing 422</u> <u>Casing 422</u>	<u>Yes</u>
LWR COMP	<u>3/3/95</u> <u>2:30</u>	<u>72 Hrs</u>	<u>Tubing 450</u> <u>Casing &</u>	<u>Yes</u>

FLOW TEST DATE NO.1

Commenced at (hour, date)* 3/6/95 @ 1:25 Zone Producing (Upr/Lwr) Dakota

TIME (hour, date)	LAPSED TIME SINCE*	PRESSURE		Prod Temp.	REMARKS
		Upper	Lower		
<u>3/6/95</u> <u>1:25</u>	<u>Day 1</u> <u>23 Hrs</u>	<u>Casing 440</u> <u>395</u>	<u>Casing</u> <u>422</u>	<u>57</u>	<u>Both Zones SI</u>
<u>3/7/95</u> <u>12:10</u>	<u>Day 2</u> <u>24 Hrs</u>	<u>Casing 440</u> <u>380</u>	<u>Casing</u> <u>420</u>	<u>62</u>	<u>Both Zones SI</u>
<u>3/8/95</u> <u>11:45</u>	<u>Day 3</u> <u>23 Hrs</u>	<u>Casing 440</u> <u>420</u>	<u>Casing</u> <u>422</u>	<u>61</u>	<u>Both Zones SI</u> <u>Flow off</u>
<u>3/9/95</u> <u>2:10</u>	<u>Day 4</u> <u>25 Hrs</u>	<u>Casing 445</u> <u>440</u>	<u>Casing</u> <u>210</u>	<u>61</u>	<u>Logged off</u>
<u>3/10/95</u> <u>12:10</u>	<u>Day 5</u> <u>22 Hrs</u>	<u>Casing 465</u> <u>440</u>	<u>Casing</u> <u>175</u>	<u>62</u>	<u>Logged off</u>
<u>3/11/95</u> <u>1:30</u>	<u>Day 6</u> <u>25 Hrs</u>	<u>Casing 475</u> <u>440</u>	<u>Casing</u> <u>175</u>	<u>63</u>	<u>Logged off</u>

Production rate during test

Oil: 2 BOPD based on 13.2 BBLs in 144 Hrs 56.3 Grav --- GOR ---
Gas: 268 MFCPD: Tested thru (Orifice or Meter): METER

MID-TEST SHUT-IN PRESSURE DATA

	Hour, Date SI	Length of Time SI	SI Press. PSIG	Stabilized (yes/no)
UPR COMP	<u>3/3/95</u> <u>2:30</u>	<u>242 Hrs</u>	<u>Casing 475</u> <u>Tubing 440</u>	<u>Yes</u>
LWR COMP	<u>3/11/95</u> <u>1:30</u>	<u>48 Hrs</u>	<u>Casing &</u> <u>Tubing 175</u>	<u>Yes</u>

(Continue on reverse side)

FLOW TEST NO. 2

Commenced at hour, date		Zone producing (Upper or Lower)		CHECK	
TIME Hour, date	LAPSED TIME HRS	PRESSURE		PROD. ZONE TEMP.	REMARKS
		Upper Completion	Lower Completion		
3/4/95 1:30	24 HRS	Tubing 290 Casing 325	210 Q	64	
3/15/95 2:30	23 HRS	Tubing 290 Casing 405	300 Q	63	Line Pressures Fluctuating
3/16/95 1:00	25 HRS	Tubing 295 Casing 370	395 Q	66	
3/17/95 12:30	24 HRS	Tubing 340 Casing 340	440 Q	65	Line Pressures High
3/18/95 1:00	24 HRS	Tubing 210 Casing 340	445 Q	67	Logged off
3/19/95 1:25	24 HRS	Tubing 205 Casing 340	480 Q	68	Logged off

Production rate during test

Oil: TRACE BOPD based on 2.9 Bbls. in 744 Hours. — Grav. — GOR —Gas: 54 MCFPD: Tested thru (Orifice or Meter): —Remarks: FLUCTUATING LINE PRESSURE MADE TESTING HARDER SAKOTA PIPE
NEEDS VENT VALVE AND CLOCK TO ELIMINATE Logging off. Chacra Automater
BUT NEEDS VENT LINE

I hereby certify that the information herein contained is true and complete to the best of my knowledge.

Approved Johnny Robinson 19 —

New Mexico Oil Conservation Division

MAR 22 1995

By —

DEPUTY OIL & GAS INSPECTOR

Title —Operator Amoco Production CompanyBy Bob StovallTitle Field TechDate MARCH 20, 1995

NORTHWEST NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

1. A packer leakage test shall be commenced on each multiple completed well within seven days after actual completion of the well, and annually thereafter as prescribed by the order authorizing the multiple completion. Such tests shall also be commenced on all multiple completions within seven days following recompletion and/or chemical or fracture treatment, and whenever remedial work has been done on a well during which the packer or the tubing have been disturbed. Tests shall also be taken at any time that communication is suspected or when requested by the Division.

2. At least 72 hours prior to the commencement of any packer leakage test, the operator shall notify the Division in writing of the exact time the test is to be commenced. Offset operators shall also be so notified.

3. The packer leakage test shall commence when both zones of the dual completion are shut-in for pressure stabilization. Both zones shall remain shut-in until the well-head pressure in each has stabilized, provided however, that they need not remain shut-in more than seven days.

4. For Flow Test No. 1, one zone of the dual completion shall be produced at the normal rate of production while the other zone remains shut-in. Such test shall be continued for seven days in the case of a gas well and for 24 hours in the case of an oil well. Note: if, on an initial packer leakage test, a gas well is being flowed to the atmosphere due to the lack of a pipeline connection the flow period shall be three hours.

5. Following completion of Flow Test No. 1, the well shall again be shut-in, in accordance with Paragraph 3 above.

6. Flow Test No. 2 shall be conducted even though no leak was indicated during Flow Test No. 1. Procedure for Flow Test No. 2 is to be the same as for Flow Test No. 1 except

that the previously produced zone shall remain shut-in while the zone which was previously shut-in is produced.

7. Pressures for gas-zone tests must be measured on each zone with a deadweight pressure gauge at time intervals as follows: 3 hours test: immediately prior to the beginning of each flow period, at fifteen-minute intervals during the first hour thereof, and at hourly intervals thereafter, including one pressure measurement immediately prior to the conclusion of each flow period. 7-day test: immediately prior to the beginning of each flow period, at least one time during each flow period (at approximately the midway point) and immediately prior to the conclusion of each flow period. Other pressures may be taken as desired, or may be requested on wells which have previously shown questionable test data.

24-hour oil zone test: all pressures, throughout the entire test, shall be continuously measured and recorded with recording pressure gauges the accuracy of which must be checked at least twice, once at the beginning and once at the end of each test, with a deadweight pressure gauge. If a well is a gas-oil or an oil-gas dual completion, the recording gauge shall be required on the oil zone only, with deadweight pressures as required above being taken on the gas zone.

8. The results of the above-described tests shall be filed in triplicate within 15 days after completion of the test. Tests shall be filed with the Asset District Office of the New Mexico Oil Conservation Division on Northwest New Mexico Packer Leakage Test Form Revised 10-01-78 with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only).