~~Stewart A+ Settlements~~ / ~~#8~~ 82 ~~8~~

STATE OF NEW MEXICO
ENERGY and MINERALS DEPARTMENT

Location of Well: H062910 Page 1
H-6-29-10

OIL CONSERVATION DIVISION
NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator: AMOCO PRODUCTION COMPANY Lease/Well #:LUDWICK LS 014
Meter #:71482 RTU: - - County:SAN JUAN

	NAME RESERVOIR OR POOL	TYPE PROD	METHOD PROD	MEDIUM PROD
UPR COMP	LUDWICK LS 014 PC 71483 143	GAS	FLOW	TBG
LWR COMP	LUDWICK LS 014 MV 71482 1??	GAS	FLOW	TBG

PRE-FLOW SHUT-IN PRESSURE DATA

	Hour/Date Shut-In	Length of Time Shut-In	SI Press. PSIG	Stabilzed
UPR COMP	06/16/94	72	210	yes
LWR COMP	06/16/94	72	295	no

FLOW TEST DATE NO.1

Commenced at (hour,date)* Zone Producing (Upr/Lwr) [Lwr circled]

TIME (hour, date)	LAPSED TIME SINCE*	PRESSURE Upper	PRESSURE Lower	Prod Temp.	REMARKS
06/16/94	Day 1	150	280		Both Zones SI
06/17/94	Day 2	180	280		Both Zones SI
06/18/94	Day 3	200	290		Both Zones SI
06/19/94	Day 4	210	295		flowed lower zone
06/20/94	Day 5	219	296		Lower zone logged off
06/21/94	Day 6	232	298		" "

Production rate during test
Oil:______ BOPD based on ____ BBLs in ____ Hrs ____ Grav ___ GOR ___
Gas: ______ MFCPD:Tested theu (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	9:30AM 6/16/94	6 DAYS	232	Yes
LWR COMP	9:30AM 6/16/94	72 HRS	245	

(Continue on reverse side)

MV on did not flow Logged off

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AUG - 2 1994
OIL CON. DIV.
DIST. 3

FLOW TEST NO. 2

Commenced at (hour, date) * *				Zone producing (Upper or Lower):	
TIME (hour, date)	LAPSED TIME SINCE * *	PRESSURE		PROD. ZONE TEMP.	REMARKS
		Upper Completion	Lower Completion		

Production rate during test

Oil: _____ BOPD based on _____ Bbls. in _____ Hours. _____ Grav. _____ GOR _____

Gas: _____ MCFPD: Tested thru (Orifice or Meter): _____

STATE OF NEW MEXICO
ENERGY and MINERALS DEPARTMENT

H-6-27-10
Location of Well: H062910 Page 1

OIL CONSERVATION DIVISION
NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator: AMOCO PRODUCTION COMPANY Lease/Well #:LUDWICK LS 014
Meter #:71483 RTU: - - County:SAN JUAN

	NAME RESERVOIR OR POOL	TYPE PROD	METHOD PROD	MEDIUM PROD
UPR COMP	LUDWICK LS 014 PC 71483	GAS	FLOW	TBG
LWR COMP	LUDWICK LS 014 MV 71482	GAS	FLOW	TBG

PRE-FLOW SHUT-IN PRESSURE DATA

	Hour/Date Shut-In	Length of Time Shut-In	SI Press. PSIG	Stabilzed
UPR COMP	06/07/95	72	210	yes
LWR COMP	06/07/95	72	341	yes

FLOW TEST DATE NO.1

Commenced at (hour,date)* Zone Producing (Upr/Lwr)

TIME (hour, date)	LAPSED TIME SINCE*	PRESSURE Upper	PRESSURE Lower	Prod Temp.	REMARKS
06/~~12~~13/95	Day 1	165	319		Both Zones SI
06/~~13~~14/95	Day 2	190	331		Both Zones SI
06/~~14~~15/95	Day 3	207	337		Both Zones SI
06/~~15~~16/95	Day 4	210	341		flowed Lower Zone
06/~~16~~17/95	Day 5	211	303		"
06/~~17~~18/95	Day 6	212	291		"

Production rate during test
Oil:_____ BOPD based on _____ BBLs in _____ Hrs _____ Grav___ GOR ___
Gas: _____ MFCPD:Tested theu (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	7:00AM 6-13-95	120 hrs	212	yes
LWR COMP	7:00AM 6-13-95	72 hrs	341	yes

(Continue on reverse side)

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JUN 20 1995
OIL CON. DIV.
DIST. 3

FLOW TEST NO. 2

Commenced at (hour, date) **				Zone producing (Upper or Lower)	
TIME (hour, date)	LAPSED TIME SINCE **	PRESSURE		PROD. ZONE TEMP.	REMARKS
		Upper Completion	Lower Completion		

Production rate during test

Oil: _____ BOPD based on _____ Bbls. in _____ Hours. _____ Grav. _____ GOR _____

Gas: _____ MCFPD: Tested thru (Orifice or Meter): _____

Remarks: _____

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
JUN 21 1995
By _____
DEPUTY OIL & GAS INSPECTOR
Title _____

Operator _____
By D. Mullins Agent
Title Field Technologist
Date 6/19/95

NORTHWEST NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

1. A packer leakage test shall be commenced on each multiply 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 tests: 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 tests: 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 tests: 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 Aztec 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).