





NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC NM 87410
(505) 334-6176 FAX: (505) 334-6170
<http://www.nrd.state.nm.us/ood/District/HU3/district.htm>

This form is not to
be used for reporting
packer leakage tests
in Southeast New Mexico

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Revised 11/16/98

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator Mallon Oil Company Lease Name Jicarilla 459-20 Well No 12

Location of Well: Unit Letter 0 Sec 20 Twp 30N Rge 03W API # 30-039-25855

	NAME OF RESERVOIR OR POOL	TYPE OF PROD. (Oil or Gas)	METHOD OF PROD. (Flow or Art. Lift)	PROD. MEDIUM (Tbg. or Csg.)
Upper Completion	Cabresto Canyon Ojo Alamo Ext.	Gas	Flow	Tbg
Lower Completion	Pictured Cliffs	Gas	Flow	Tbg

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour, date shut-in 12:00 PM 4/3/00	Pinched Back	Length of time shut-in 1.5 hours	SI press. Psig 95 psig	Stabilized? (Yes or No) Yes
Lower Completion	Hour, date shut-in 3:55 PM 3/31/00		Length of time shut-in 69.5 hours	SI press. Psig 255 psig	Stabilized? (Yes or No) Yes

FLOW TEST NO. 1

Commenced at (hour, date)* 1:30 PM 4/3/00				Zone producing (Upper or Lower): Lower	
TIME (hour, date)	LAPSED TIME SINCE*	PRESSURE		PROD. ZONE TEMP.	REMARKS
		Upper Completion	Lower Completion		
1:30 PM 4/3/00	0	95	255		Modified Test
6:30 PM 4/3/00	5 hrs	95	15		Open Pictured Cliffs to flow
11:30 PM 4/3/00	10 hrs	95	10		Flowing Pictured Cliffs
4:30 AM 4/4/00	15 hrs	95	10		Flowing Pictured Cliffs
9:30 AM 4/4/00	20 hrs	95	10		Flowing Pictured Cliffs
1:30 PM 4/4/00	24 hrs	95	11		Flowing Pictured Cliffs

Production rate during test

Oil: N/A BOPD based on Bbls. in Hours Grav. GOR

Gas: 108 MCFPD; Tested thru (Orifice or Meter): Meter

MID-TEST SHUT-IN PRESSURE DATA

Upper Completion	Hour, date shut-in N/A	Length of time shut-in	SI press psig	Stabilized? (Yes or No)
Lower Completion	Hour, date shut-in N/A	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)

(Continue on reverse side)

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

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FLOW TEST NO. 2

Commenced at (hour, date)** 1:30 PM 4/4/00				Zone producing (Upper or Lower): Upper	
TIME (hour, date)	LAPSED TIME Since**	PRESSURE		PROD. ZONE	REMARKS
		Upper Completion	Lower Completion		
1:30 PM 4/4/00	0	.95	11		Modified Test
6:30 PM 4/4/00	5 hrs	59	150		Open Ojo Alamo to flow
11:30 PM 4/4/00	10 hrs	56	195		Flowing Ojo Alamo
4:30 AM 4/5/00	15 hrs	56	210		Flowing Ojo Alamo
9:30 AM 4/5/00	20 hrs	55	202		Flowing Ojo Alamo
1:30 PM 4/5/00	24 hrs	59	200		Flowing Ojo Alamo

Production rate during test

Oil: N/A BOPD based on Bbls. in Hours. Grav. GOR
 Gas: 179 MCFPD: Tested thru (Orifice or Meter): Meter

Remarks: Modified Packer Test - Pinch back Ojo Alamo rather than shutting well in to keep from logging well off.

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

Approved APR 13 2000 19 Operator Mallon Oil Company New
 Mexico Oil Conservation Division
 By *John Jeltch* Title District Petroleum Engineer
 By *Charles Turner* Title DEPUTY OIL & GAS INSPECTOR, DIST. #3
 Date 4/11/00

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 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 11-16-98 with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only).

M LON OIL COMPANY

MORNING COMPLETION REPORT

PAGE 1 OF 6

WELL NAME	Jicarilla 459-20 #12 OA-P.C.	AFE	DATE	3-31-00	DAYS	1
ESSENTIAL OPERATION	Packer Integrity Test	DEEPEST CASING -- O.D. DEPTH				
BING SIZE & DEPTH	(modified)	PERFORATED INTERNAL /FORMATION				
CONTRACTOR & RIG NO.						
PBTD	PACKER	TUBING I.D.	FOREMAN	J. Costalez	REPORT TAKEN BY	Same

DESCRIPTION OF OPERATIONS

Current Flow Status

3:50 P/m P.C. - FTP-20, CFR-125 mcfD

O.A. - FTP-59, SITP-301, CFR-158 mcfD, LP-58 PSI.

(Begin modified Packer Test)

3:55 P/m Shut in Picture cliffs, then Pinch back OJO-Alamo.

4:05 P/m P.C. - SITP-77 PSI, CFR-10 mcfD.

O.A. - FTP-125, SITP-309, CFR-82 mcfD, LP-58 PSI.

4:40 P/m P.C. - SITP-104 PSI, CFR-10 mcfD.

O.A. - FTP-169, SITP-312, CFR-117 mcfD, LP-58 PSI.

BING & BHA TALLY					DESCRIPTION	DAILY COSTS	CUMM. COSTS
HEAD, GRADE, ETC.	SIZE & WT.	NO. JOINTS	LENGTH		ROAD AND LOCATION		
			FEET	TENTHS	BITS		
					COMPLETION & SWAB UNITS		
					COMPLETION FLUID		
					CEMENTING & EQUIP.		
					TESTING		
					PERFORATING & LOGGING		
					STIMULATION		
					SPECIAL SERVICES		
					EQUIPMENT RENTAL		
TOTAL BHA LENGTH					LABOR & TRANSPORTATION		
ADD DATA					SUPERVISION		
SIZE - TYPE	NO. RODS	FEET	OTHER				
			PROD. CASING				
			TUBING				
			WELLHEAD EQUIPMENT				
			SEPARATOR, DEHY. COMP.				

M. J. LON OIL COMPANY

MORNING COMPLETION REPORT

PAGE 2 OF 6

WELL NAME	Jicarilla 459-20*12 OA/PC.	DATE	4-1-00	DAYS	2
ESSENT OPERATION	Packer Integrity Test	DEEPEST CASING -- O.D. DEPTH			
BING SIZE & DEPTH	(modified)	PERFORATED INTERNAL /FORMATION			
TRACTOR & RIG NO.		FOREMAN	J. Costale	REPORT TAKEN BY	Same
PBTD	PACKER	TUBING I.D.			
DESCRIPTION OF OPERATIONS					
NOTE: 1 A/m - 8 A/m - Possible Needle Valve Freeze.					

1:00 P/m P.C. - SITP-199 PSI
O.A. - FTP-71, SICP-379, CFR-51 mcfD, LP-59

1:30 P/m open OJO-Alamo to production tank to unload.

3:30 P/m P.C. - SITP-208 PSI
O.A. - FTP-76, SICP-350, Leave Well unloading

7:00 P/m install OJO-Alamo to production.

7:10 P/m O.A. - FTP-66, SICP-329, CFR-186 mcfD, LP-54

BING & BHA TALLY					DESCRIPTION	DAILY COSTS	CUMM. COSTS
HEAD, GRADE, ETC.	SIZE & WT.	NO. JOINTS	LENGTH		ROAD AND LOCATION		
			FEET	TENTHS	BITS		
					COMPLETION & SWAB UNITS		
					COMPLETION FLUID		
					CEMENTING & EQUIP.		
					TESTING		
					PERFORATING & LOGGING		
					STIMULATION		
					SPECIAL SERVICES		
					EQUIPMENT RENTAL		
TOTAL BHA LENGTH					LABOR & TRANSPORTATION		
ADDITIONAL DATA					SUPERVISION		
SIZE - TYPE	NO. RODS		FEET		OTHER		
					PROD. CASING		
					TUBING		
					WELLHEAD EQUIPMENT		
					SEPARATOR, DEHY. COMP.		

ALLON OIL COMPANY

MORNING COMPLETION REPORT

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WELL NAME	Jicarilla 459-20 #12 PC/OA		AFE	-	DATE	4-2-00	DAYS	3
ESSENTIAL OPERATION	Packer Integrity Test (modified)				DEEPEST CASING -- O.D. DEPTH			
BING SIZE & DEPTH					PERFORATED INTERNAL /FORMATION			
CONTRACTOR & RIG NO.								

DESCRIPTION OF OPERATIONS	PBTD	PACKER	TUBING I.D.	FOREMAN	REPORT TAKEN BY
7 AM - 9:30 AM Possible Needle Valve Freeze.				J. Costale	Same.

10:00 AM P.C. : SITP - 222 PSI
O.A. : FTP - 56, SITP - 302, CFR - 173 mcfD, LP - 53

2:45 PM P.C. : SITP - 227 PSI
O.A. : FTP - 56, SITP - 302, CFR - 173 mcfD, LP - 54

BING & BHA TALLY					DESCRIPTION	DAILY COSTS	CUMM. COSTS
HEAD, GRADE, ETC.	SIZE & WT.	NO. JOINTS	LENGTH				
			FEET	TENTHS			
					ROAD AND LOCATION		
					BITS		
					COMPLETION & SWAB UNITS		
					COMPLETION FLUID		
					CEMENTING & EQUIP.		
					TESTING		
					PERFORATING & LOGGING		
					STIMULATION		
					SPECIAL SERVICES		
					EQUIPMENT RENTAL		
TOTAL BHA LENGTH					LABOR & TRANSPORTATION		
ADDITIONAL DATA					SUPERVISION		
SIZE - TYPE		NO. RODS		FEET	OTHER		
					PROD. CASING		
					TUBING		
					WELLHEAD EQUIPMENT		
					SEPARATOR, DEHY. COMP.		

M. LON OIL COMPANY

MORNING COMPLETION REPORT

PAGE 4 OF 6

WELL NAME	Jicarilla 459-20 #12 PC/OA.			AFE	DATE	4-3-00	DAYS	4
ESSENT OPERATION	Packer Integrity Test			DEEPEST CASING -- O.D. DEPTH				
BING SIZE & DEPTH	(modified)			PERFORATED INTERNAL /FORMATION				
TRACTOR & RIG NO.								
PBD		PACKER	TUBING I.D.	FOREMAN		REPORT TAKEN BY		
SCRIPTION OF OPERATIONS 7 ^{AM} - 8 ^{AM} Possible Needle Valve Freeze.								

9:30 ^{AM} P.C.: SITP-241 PSI.
O.A.: FTP-55, SICP-299, CFR-167, LP-52, BW-69.

11:55 ^{AM} P.C.: SITP-247 PSI.
O.A.: FTP-57, SICP-305, CFR-167, LP-52

12:00 ^{PM} Pinch Back OJO-Alamo

12:30 ^{PM} O.A. - FTP-98 PSI, SICP-321, CFR-102, LP-53

1:30 ^{PM} P.C.: SITP-255 PSI Install to production.
O.A.: FTP-96, SICP-334, CFR-102, LP-52

6:00 ^{PM} P.C.: FTP-16 PSI, CFR-256 MCFD
O.A.: FTP-92 PSI, SICP-341, CFR-122 MCFD, LP-56

BING & BHA TALLY					DESCRIPTION	DAILY COSTS	CUMM. COSTS
HEAD, GRADE, ETC.	SIZE & WT.	NO. JOINTS	LENGTH		ROAD AND LOCATION		
			FEET	TENTHS			
					BITS		
					COMPLETION & SWAB UNITS		
					COMPLETION FLUID		
					CEMENTING & EQUIP.		
					TESTING		
					PERFORATING & LOGGING		
					STIMULATION		
					SPECIAL SERVICES		
					EQUIPMENT RENTAL		
TOTAL BHA LENGTH					LABOR & TRANSPORTATION		
WELL DATA					SUPERVISION		
SIZE - TYPE	NO. RODS		FEET		OTHER		
					PROD. CASING		
					TUBING		
					WELLHEAD EQUIPMENT		
					SEPARATOR, DEHY. COMP.		

MILLON OIL COMPANY

MORNING COMPLETION REPORT

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WELL NAME <u>Jicarilla 459-20-#12 PC/104</u>		AFE	DATE <u>4-5-00</u>	DAYS <u>6</u>
ESSENT OPERATION <u>Packer Integrity Test</u>		DEEPEST CASING -- O.D. DEPTH		
BING SIZE & DEPTH <u>(modified)</u>		PERFORATED INTERNAL /FORMATION		
CONTRACTOR & RIG NO.				
P8TD	PACKER	TUBING I.D.	FOREMAN <u>J. Costalez</u>	REPORT TAKEN BY <u>Same</u>

DESCRIPTION OF OPERATIONS 4¹/m - 8¹/m Needle Valve Freeze.

9:30 A/m P.C. : SITP-223 PSI,

O.A. : FTP-55, SICP-302, CFR-177 mcfD, BW-69, LP-52

2:00 P/m P.C. : SITP-233 PSI

O.A. : FTP-56, SICP-306, CFR-179 mcfD, LP-52

Install Picture cliff on production.

End of Test.

BING & BHA TALLY					DESCRIPTION	DAILY COSTS	CUMM. COSTS
HEAD, GRADE, ETC.	SIZE & WT.	NO. JOINTS	LENGTH				
			FEET	TENTHS	ROAD AND LOCATION		
					BITS		
					COMPLETION & SWAB UNITS		
					COMPLETION FLUID		
					CEMENTING & EQUIP.		
					TESTING		
					PERFORATING & LOGGING		
					STIMULATION		
					SPECIAL SERVICES		
					EQUIPMENT RENTAL		
TOTAL BHA LENGTH					LABOR & TRANSPORTATION		
PROD DATA					SUPERVISION		
SIZE - TYPE	NO. RODS		FEET		OTHER		
					PROD. CASING		
					TUBING		
					WELLHEAD EQUIPMENT		
					SEPARATOR, DEHY. COMP.		



