STATE OF NEW MEXICO

ENERGY and MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

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

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator UNION OIL OF CALIFORNIA/dba UNOCAL			/dba UNOCAL	Lease RIN	CON UNIT	Well No. 176E			
Location of Well:	Unit F	Sec. 31 T	wp. <u>27</u> N	Rge 06V	,	Cour	aty RIO ARRIBA		
	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	DI ANICO MEGA MEDDE			GAS	FLOV	<u>v</u>		TUBING	
Lower Completion	DACINI DAI/OTA			GAS	FLOV	FLOW		TUBING	
			PRE-FLO	W SHUT-IN PR	ESSURE DATA				
Upper	Hour, date shut-in 9:45 a.m. 07/24/97		Length of time shut-	Length of time shut-in		SI press. psig CSG 270		Stabilized? (Yes or No)	
Completion Lower Completion	07/24/97 Hour, date shut-in 9:45 a.m. 07/24/97			cength of time shut-in		TBG 220 SI press. psig TBG 245		Yes Stabilized? (Yes or No) Yes	
]	FLOW TEST NO	D. 1				
Commenced at (hour, date)* 4: p.m. 07/29/97				Zone producing (Upper or Lower)*		ower			
TIME LAPSED TIME (hour, date) SINCE* Upper C		PRESS Upper Completion	SURE PROD ZONE Lower Completion TEMP.		REMARKS				
9: a.m. 07/30/97			CSG 280 TBG 220	TBG 130	60°	Q = 444 mcf			
8:a.m,		48 hrs	CSG 280 TBG 220	TBG 130	58 ⁰	Q = 367.mcf			
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						AUG	1 3 1907	and the second	
								DIV.	
Production r	rate during to	est				ľ	diene 3		
Oil: BOPD based on			Bbls. in	Hours.	Gr	av.	GOR		
Gas:			MCFPD; Teste	ed thru (Orifice or Mo	eter):	<u>.</u>			
			MID-TEST SHU	IT-IN PRESSUR	E DATA				
Upper	Hour, date shut-in Length of time shut-in			SI press. psig		Stabilized? (Yes or No)			
Completion Lower Hour, date shut-in Completion		Length of time shut-in	Length of time shut-in		TBG SI press. psig TBG		Stabilized? (Yes or No)		

(Continue on reverse side)

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST FLOW TEST NO. 1

menced at (hour, date)*				Zone producing (Upper or Lower)* UPPER			
TIME	LAPSED TIME SINCE*	PRESSURE		PROD. ZONE	REMARKS		
(hour, date)		Upper Completion	Lower Completion	TEMP.			
-		CSG					
		TBG	TBG				
		CSG					
		TBG	TBG				
		CSG					
		TBG	TBG				
			1				
			T i				
		İ					

L					T
Production rate during t	test				-
Od:	BOPD based on	Bbls. in	Hours.	Grav.	GOR
Gas:	MCFPD	o; Tested-thru (Orifice or Meter):			
Remarks:					
			· · · · · · · · · · · · · · · · · · ·		
Approved	information herein contained is true and	1 compete to the best of my knowled 19 Operator	-	CALIFORNIA/dba UNC	DCAL
New Mexico Oil Cor	Johnny Police	Ву	Mike Tabet	Jelet	,
		₽	IAIIVE CDC!		
Ву	Deputy Oil & Gas Inspects	Title	Production Forema	ın	

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 reatment, 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.
- 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 latmosphere due to the lack of a ripeline 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.
- $6^{\circ}F$ ow Test No. 2 shall be conducted even though no reak 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 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 a 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)