STATE OF NEW MEXICO

ENERGY and MINERALS DEPARTMENT

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

Completion

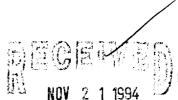
Lower

Completion

0730 HOURS, 11-09-94

Hour, date shut-in

OIL CONSERVATION DIVISION



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Revised 10/01/78

YES

Stabilized? (Yes or No)

NORTHWEST NEW MEXICO PACKER-LEAKAGE DIV TEST

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erator NORTHWEST PIPELINE CORPORATION		ON	Lease ROSA UN			IIT Well No			
ocation Well: Unit <u>C</u>	;	Sec17	Twp	o. <u>31N</u>		Rge. <u>6</u>	SW Con	unty SAN JUAN	
	N/	NAME OF RESERVOIR OR POOL		1	TYPE OF PROD (Flow or Art. Lift)		METHOD OF PRO	l	
Upper Completion	PICTURED CLIFFS			GAS		FLOW	TUBING		
Lower Completion	MESA VERDE			GAS		FLOW	TUBING		
			Р	RE-FLOW S	HUT-IN PRES	SURE DA	TA		
Upper Completion	Hour, date shut-in 1600 HOURS, 11-08-94		Length	Length of time shut-in 112 HOURS			s. psig P = 962, SICP = 1016	Stabilized? (Yes or No) YES	
Lower Completion		our, date shut-in Length of time shut-in 96 HOURS			SI press. psig SITP = 1041		Stabilized? (Yes or No) YES		
				FL/	OW TEST NO.	. 1			
Commenced a	at (hour,	date)* 0750 MST, 11-13	 3-94				Zone producing (Uppe	er or Lower) UPPER	
TIME		LAPSED TIME SINCE*		PRESSURE			PROD. ZONE	REMARKS	
(hour, date	э)			Upper Completion Lower Cor			· TEMP.		
			TBG	CSG	TBG	i		Ç*	
0820, 11-13	-94	94 0.5 HOURS		686	1041		51	IP TEST ON PICTURED CLIFF	
0850, 11-13-94		1.0 HOURS	91	488	1039		59	UNLOAD HEAVY MIST	
0920, 11-13-94		1.5 HOURS	66	408	1038		63		
0950, 11-13-94		2.0 HOURS	45	376	1040		63		
1020, 11-13-94		2.5 HOURS	41	368	1041		65		
1050, 11-13-94		3.0 HOURS	34	350	1044		65		
Production rate of	during te	est:							
oii: NONE		BOPD based on	1	BBLs	s. in	Hours	s, Grav.	GOR	
Gas: 560 MCF	F/D LIGI						Orifice or Meter): 2		
				MID-TEST S	SHUT-IN PRES	SURE DA	ATA		
Upper	Hour, date shut-in Length of 1020 HOURS, 11-13-94			th of time shu		SI press	s. psig P = 954 SICP = 1077	Stabilized? (Yes or No) YES	

199.5 HOURS

Length of time shut-in

SI press. psig

SITP = 1064

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST FLOW TEST NO. 2

ommenced at (hour,	date)* 1300 MST, 11-	Zone producing (Upper or Lower) LOWER				
TIME (hour, date)	LAPSED TIME SINCE*		PRES	SURE	PROD. ZONE	REMARKS
		Upper Completion		Lower Completion	TEMP.	
		TBG	CSG	TBG		
1330 11-16-94	0.5 HOURS	957	1082	231	56	IP ON MESAVERDE
1400 11-16-94	1.0 HOURS	958	1084	231	56	LIGHT MIST
1430 11-16-94	1.5 HOURS	960	1085	227	56	
1500 11-16-94	2.0 HOURS	961	1085	224	58	
1530 11-16-94	2.5 HOURS	965	1087	223	58	
1600 11-16-94	3.0 HOURS	965	1087	221	59	

Oil: _	NONE	BOPD b	ased on	BBLs. in	Hours,	Grav	GOR
Gas	2916 MCF/E	HEAVY MIST		MCF/D: Tested t	thru (Orifice or Me	eter):2" x 3/4" PROVER	
Rem	ıarks:						
							
l her	eby certify that			e and complete to the be	st of my knowlede	ge.	
• •	roved v Mexico Oil C	NOV 2 1	1994 19_		Operator	NORTHWEST PIPELINE COI	RPORATION
	V MEXICO OII C	onservation Division	Koluns	on	Ву	Mark McCallister MM	
By Title		# #	S INSPECTOR. DIS			Senior Engineer November 17, 1994	

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 leak 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.

- as for Flow Test No. 1 except that the previously produced zoned shall remain shut-in while the zone which was previously shut-in is produced.
- 7. Pressures for gas-zones 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. Test 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).

6. Flow Test No. 2 shall be conducted even though no look was indicated