STATE OF NEW MEXICO ENERGY and MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

Page 1 Revised 10/01/78

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

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operatoi	Rea	ding & Bate	s Petroleum	Co. Lease _	Howard Feder	al W	Well No. 43-15	
Location		SE Sec. 15	Twp25N	Rge	2W	County Ri	o Arriba	
		NAME OF RESERVO	HR OR POOL	TYPE OF I	B.	METHOD OF PROD. (Flow or Art Lift)	PROD. MEDIUM (Tbg. or Ceg.)	
Upper Completion	Gavilan Mancos			0il	F1	ow	Tbg.	
Lower Completion	Gavilan Greenhorn/Graneros/ Dakota			Oil	F1	ow	Tbg.	
			PRE-FL	OW SHUT-IN P	RESSURE DATA			
Upper Completion	120 hour			rs	SI press. psig 900 SI press. psig	yes	Stabilized? (Yes or No) yes	
Lower Completion	0700 //0//07			Length of time shut-in 60 hours		Stabilized yes	d? (Yes or No)	
				FLOW TEST	NO. 1			
consmenced	at (hour, dat	•)* 1900, 4-			Zone producing (Up	per or Lowert Lower		
TIME LAPSED TIME (hour, date) SINCE* Up		Upper Completion	PRESSURE Ipper Completion Lower Completion		PROD. ZONE REMARKS			
1900,4	-26-87	0 hrs.	900	900	NA	- B-R		
2300,4	1/26/87	4 hrs.	900	300	NA		G P A CO	
0300,4	/27/87	8 hrs.	900	300	NA	MA	Y13/0	
0700,4	1/27/87	12 hrs.	900	300	NA NA	ON C	MAY 13 1987 OIL COM DIV	
1200,4	1/27/87	18 hrs.	900	300	NA	D/5	37. 2 1/1/	
1900.4	/27/87	24 hrs.	900	300	NA	<u> </u>		
Productio	on rate di	iring test		•		•	•	
Oil:	2.60	BOPI	D based on 3.	36 Bbls. ir	31 Hours	Grav. 44	• API GOR 27038	
325:	703		MCF	PD; Tested thru	(Orifice or Meter	r): <u>Meter</u>		
			MID-TI	ST SHUT-IN P	RESSURE DATA			
Upper	Hour, date shut-in Length of			ıt-in	SI press. psig		1? (Yes or No)	
completion 0700 4-24-87				168 hrs. Length of time shut-in		Y e	es (? (Yes or No)	
Lower 0400 , 4-27-87			24 hi	24 hrs.		Ye	es	

FLOW TEST NO. 2

Commenced at (hour, date)** 0400, 4-29-87 Zone producing (Upper or Lower: Upper						
TIME	LAPSED TIME	PRESSURE		PROD. ZONE	1	
(hour, date)	SINCE **	Upper Completion	Lower Completion	TEMP.	REMARKS	
0400/4-29-87	0 hours	900	1230	NA		
8000/4-29-87	6 hours	760	1220	NA .		
1600/4-29-87	12 hours	720	1220	NA	rant = 2 man in tarre in the control of the control	
2000/4-29-87	16 hours	640	1220	NA .		
2400/4-30-87	20 hours	590	1220	NA		
0400/4-30-87	24 hours	590	1220	NA NA		

Production rate during test

Oil:	0 BOPD based on 0 B	bls. in <u>24</u> Hours. <u>NA</u> Grav. <u>GOR infinit</u> e
Gas:	268 MCFPD: Tested	thru (Orifice or Meter):
Remarks:	Upper completion (Gavilan Mancos)	did not produce oil during its 24-hour
flow	period. No packer leakage apparent.	
	ertify that the information herein contained is true a	- · · · · · · · · · · · · · · · · · · ·
Approved New Mo	MAY 1 3 1987 19	Operator Reading & Bates Petroleum Co. By 2. Sune Petits
Ву	Original Signed by CHARLES GHOLSON	Title Division Manager
· Title	DEPUTY OIL 1 WAS MISSECTOR, DIST. #3	Date 5/11/87

NORTHWEST NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

- 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.
- 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.
- 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 Azter 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).