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

NEW MEXICO OIL CONSERVATION COMMISSION

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

								-		D	- 11-24	Well	
Operator_		Nor	thwest P	pelin	<u>e Corpor</u>	ation	· ·	Le	ase_	Ros	a Unit	No#109	
Location of Well.	Unit	. м	Sec. 9	Two	32 N	31	N	Rge	•	5W	County	Rio Arriba	
OI WCLL.	01121	<u> </u>				Туре	of	Prod.		Method	of Prod.	Prod. Medium	
	1	lame	of Reser	voir c	or Pool	<u>(0il</u>	or	Gas)	<u>(</u> F	'low or	Art. Lift)	(Tbg. or Csg.)	
Upper Completio	per mpletion Gallup wer					Gas				Flow		Annulus	
Lower Completion Dakota						Gas				Flow		Tubing	
			PRE-FI	OW SHUT-IN PRES			SSUF	E DATA					
Upper Hour, date Compl Shut-in July 2, 1985 time shu						of Thave				SI press. USG. 2435		Stabilized?	
	1.				Tanatha	- £				IST nma	0.0	Stabilized?	
Compl S	hut -:	in	July 2,	∴985 t	time shut	t-in	-in 7 Days			psig Tbg. 1843		(Yes or No) Yes	
FLCW TEST NO. 1 Commenced at (hour, date)* 9:45 a.m. July 9, 1985 Zone producing (Upper or Lower): Upper Time Lapsed time Pressure Prod. Zone (hour, date) since* Upper Compl. Lower Compl. Temp. Remarks													
Commenced	at	(nou:	r, date);	9:	45 d.m. Press	sure	/ 9,	1900	Prod	Zone p.	loddeling (oppe	i of Bower, opper	
(hour, da	te)	s	ince*	Upper	Compl.	Lower	Cor	mpl.	Ten	m	Rem	arks	
July 9,	July 9, 1985 10:00 am			Csg. 495		Tbg. 1843		į	59 ⁰		Upper zone is annular flow.		
10:00 ar			15 Mins.		Csg. 339		104. 1043				opper zone is annular ilow.		
10:15 ar	10:15 am		30 Mins.		Tbq.		Tbg. 1843		63 ⁰		Produced heavy mist through-		
10.20 25		45 Mins		Csg. 309 Tbg.		Tbg. 1843		64 ⁰		out flow.			
10:30 ar	<u> </u>		43 111115.	Csg.	280	109.	107	3			Out How.		
10:45 ar	n		1 Hr.	Tbq.		Tbg.	184	3	6	5 ⁰			
11:45 ar	11:45 am		2 Hrs.		Csg. 210 Tbg.		Tbg. 1843		66 ⁰				
12:45 ar	n		3 Hrs.	Csg.	177	Tbg.	184	3	6	6 ⁰	0 = 2367 MC	F/D.	
Deadwatio	~ ~~	- 4	uning to	- +									
Oil. ROPD based on Bbls. in Hrs. Grav. GOR													
Gas: NCFPD; Tested thru (Orifice or Meter): I.C. 750" Positive Choke MID-TEST SHUT-IN PRESSURE DATA Upper Hour, date Compl Shut-in July 9, 985 time shut-in 7 Days psig Tbg. (Yes or No) No													
Upper Hou	ır, d	ate			Length	of		_		SI pre	ss. Csg. 2352	Stabilized?	
M 1 11		~ + ~		•	langth	∩ †'				io i drei	55.	I DUADITIZOU:	
Compl S	hut-	in	July 2,	.985	time shu	t-in	14	Davs		psig	Tbg. 1850	(Yes or No) No	
		7)	1-1-	V 0.	25	FLO	W T	EST NO). 2	Zone n	roducing (Unne	r or Lower): Lower	
Commenced	at	(nou Lap	r, date)	× 8;	25 d.III. Pres	sure	y 10	, 190	Prod	i. Zone	· · · · ·	r or Lower):Lower	
(hour, da	ite)	Sl	nce **	upper	CompT•	Lower	Co	mpl.	Te	emp.	Ren	arks	
July 16 8:40 am		35 15 Mins.		Csg. 2352 Tha		Tbq. 454		96 ⁰		Well logged in 5 mins.			
					Csg. 2355				100 ⁰		unloaded water to heavy mist		
8:55 am	8:55 am		30 Mins.		Tbq. Csg. 2345		Tbg. 338						
9:10 am			45 Mins.	· Tba.		Tbq.	262		1	<u>00⁰ </u>	throughout	flow.	
9:25 am			1 Hr.	Tba.	2345	Tbq.	232			97 ⁰			
10:25 am			2 Hrs.	Csg.	2355	Tbq.	179			96 ⁰			
			3 Hrs.	Csa.	2355					92 ⁰	0 = 2000 MC	E/D	
11:25 am Production				<u> </u>									
0:1.			BUDD P	apd o	n	E	bls	. in_		Hrs.	Grav.	GOR_	
Gas:			<u> </u>	MCFPU	; Tested	tnru	(Ur	liice	or i	meter):	/5U	Positive Choke	
REMARKS: Upper Zone projuced 296 MCF.													
Lower Zone projuced 250 MCF.													
I hereby certify that the information herein contained is true and complete to the best of my knowledge.													
JUL 2 3 1935 Operator Northwest Pipeline Corporation													
New Mexico Oil Conservation Commission By M.C. And M.C.													
Original Signed by CHAR.ES GHOLSON By Title Senior Engineer										a E M			
A STATE OF THE STA													
Title							D				22nd, 1985	1985	

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 Commission.
- At least 72 hours prior to the commencement of any packer leakage test the operator shall notify the Commission 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 shutin, 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-hour 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 Oll Conservation Commission on Northwest New Mexico Packer Leakage Test Form Revined 11-1-58, with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only). A pressure versus time curve for each zone of each test shall be constructed on the reverse side of the Packer Leakage Test Fors with all deadweight pressure points taken indicated thereon. For oil zones, the pressure curve should also indicate all key pressure changes which may be reflected by the recording gauge charts. Those key pressure changes should also be tabulated on the front of the Packer Leakage Test Form.

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