

NEW MEXICO OIL CONSERVATION COMMISSION  
SOUTHEAST NEW MEXICO PACKER LEAKAGE TEST

Operator <b>WESTERN NATURAL GAS COMPANY</b>			Lease <b>WIMBERLY</b>			Well No. <b>3</b>	
Location of Well	Unit <b>D</b>	Sec <b>24</b>	Twp <b>25s</b>	Rge <b>13E</b>	County <b>LEA</b>		
Name of Reservoir or Pool			Type of Prod (Oil or Gas)	Method of Prod Flow, Art Lift	Prod. Medium (Tbg or Csg)	Choke Size	
Upper Compl	<b>JUSTIS - TUBB DRINKARD</b>		<b>OIL</b>	<b>FLOW</b>	<b>TBG</b>	<b>14/64</b>	
Lower Compl	<b>JUSTIS - FUSSELMAN</b>		<b>OIL</b>	<b>FLOW</b>	<b>TBG</b>	<b>24/64</b>	

FLOW TEST NO. 1

Both zones shut-in at (hour, date): 8:00 AM (5-7-62)

Well opened at (hour, date): 2:30 PM (5-7-62)

	Upper Completion	Lower Completion
Indicate by ( X ) the zone producing.....		<u>X</u>
Pressure at beginning of test.....	<u>1330 CHART</u>	<u>750 CHART</u>
Stabilized? (Yes or No).....	<u>YES</u>	<u>YES</u>
Maximum pressure during test.....	<u>1350</u>	<u>750</u>
Minimum pressure during test.....	<u>1330</u>	<u>0</u>
Pressure at conclusion of test.....	<u>1350</u>	<u>0</u>
Pressure change during test (Maximum minus Minimum).....	<u>20</u>	<u>750</u>
Was pressure change an increase or a decrease?.....	<u>INCREASE</u>	<u>DECREASE</u>
Well closed at (hour, date): <u>8:00 AM (5-8-62)</u>	Total Time On Production <u>17 HOURS 30 MINUTES</u>	
Oil Production During Test: <u>92.00</u> bbls; Grav. <u>36.9</u> ;	Gas Production During Test <u>182,988</u> MCF; GOR <u>1989</u>	
Remarks <u>TEST RESULTS INDICATE THAT THE PACKER IS SEPARATING THE TWO PRODUCING ZONES PROPERLY.</u>		

FLOW TEST NO. 2

	Upper Completion	Lower Completion
Well opened at (hour, date): <u>8:00 AM (5-9-62)</u>		
Indicate by ( X ) the zone producing.....	<u>X</u>	
Pressure at beginning of test.....	<u>1350 CHART</u>	<u>725 CHART</u>
Stabilized? (Yes or No).....	<u>YES</u>	<u>YES</u>
Maximum pressure during test.....	<u>1350</u>	<u>725</u>
Minimum pressure during test.....	<u>400</u>	<u>725</u>
Pressure at conclusion of test.....	<u>610</u>	<u>725</u>
Pressure change during test (Maximum minus Minimum).....	<u>950</u>	<u>0</u>
Was pressure change an increase or a decrease?.....	<u>DECREASE</u>	<u>-</u>
Well closed at (hour, date): <u>7:30 AM (5-10-62)</u>	Total time on Production <u>23.5 HOURS</u>	
Oil Production During Test: <u>106.00</u> bbls; Grav. <u>36.6</u> ;	Gas Production During Test <u>388,003</u> MCF; GOR <u>3660</u>	
Remarks <u>TEST RESULTS INDICATE THAT THE PACKER IS SEPARATING THE TWO PRODUCING ZONES PROPERLY.</u>		

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

Approved \_\_\_\_\_ 19\_\_\_\_\_  
New Mexico Oil Conservation Commission

By \_\_\_\_\_  
Title \_\_\_\_\_

Operator WESTERN NATURAL GAS COMPANY

By COLEMAN PETROLEUM ENGINEERING CO.

Title AGENT

Date MAY 15, 1962

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1. *Phragmites australis* (Cav.) Trin. ex Steud. (Common reed)  
2. *Phragmites australis* (Cav.) Trin. ex Steud. (Common reed)  
3. *Phragmites australis* (Cav.) Trin. ex Steud. (Common reed)  
4. *Phragmites australis* (Cav.) Trin. ex Steud. (Common reed)  
5. *Phragmites australis* (Cav.) Trin. ex Steud. (Common reed)  
6. *Phragmites australis* (Cav.) Trin. ex Steud. (Common reed)  
7. *Phragmites australis* (Cav.) Trin. ex Steud. (Common reed)  
8. *Phragmites australis* (Cav.) Trin. ex Steud. (Common reed)  
9. *Phragmites australis* (Cav.) Trin. ex Steud. (Common reed)  
10. *Phragmites australis* (Cav.) Trin. ex Steud. (Common reed)

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Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The *Agrobacterium* strains were cultured in YEA medium for 24 h and then adjusted to the concentration of  $1 \times 10^8$  cells/ml. The cells were then mixed with the plant protoplasts and cocultured for 24 h. The transformation efficiency was determined by the number of transformants per protoplast. The results are the mean  $\pm$  SD of three independent experiments.

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