



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET 24365

P. O. BOX 793 PHONE 793-7903
GREAT BEND, KANSAS

Formation Missouri Elevation 11016 Ft. Eff. Pay - Ft.

District Augusta Date 4-6-76 Customer Order No. -

COMPANY NAME K. R. M. Petroleum

ADDRESS 817 - 17th Street, Guaranty Bldg, Suite 403, Denver Colo 80202

LEASE AND WELL NO. Banner #1 COUNTY Elk STATE Ks Sec. 35 Twp. 31S Rge. 10E

Mail Inv. To Same No. Copies Requested 1

Mail Charts To Same No. Copies Requested 5

Co. Name Address

Formation Test No. 1 O.K. Misrun Interval Tested From 1990 to 2000 Total Depth 2000

Size Main Hole 6 1/4 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No

Top Packer Depth 1985 Fr. Size 5 1/2 Bottom Packer Depth 1990 Fr. Size 5 1/2

Straddle Conv. B.T. Damaged Yes No Packer Depth - Fr. Size -

Tool Size 4 3/8 Tool Joint Size 3 1/2 IF Anchor Length 10 Ft. Size 4 3/8 Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 1993 Ft. Clock No. 9103 Depth 1996 Ft. Clock No. 6859

Top Make Kuster Cap. 4200 No. 1558 Inside Outside Bottom Make Kuster Cap. 3150 No. 1564 Inside Outside

Below Straddle: Depth - Rec. No. - Clock No. - Outside Depth - Ft. Rec. No. - Clock No. - Outside

Time Set Packer 6:58 P M

Tool Open I.F.P. From 7:00 P.M. to 7:45 P.M. Hr. 45 Min. From (B) 10 P.S.I. To (C) 1520 P.S.I.

Tool Closed I.C.I.P. From 7:45 P.M. to 8:15 P.M. Hr. 30 Min. (D) 600 P.S.I.

Tool Open F.F.P. From 8:15 P.M. to 8:30 P.M. Hr. 15 Min. From (E) 10 P.S.I. To (F) 10 P.S.I.

Tool Closed F.C.I.P. From 8:30 P.M. to 9:00 P.M. Hr. 30 Min. (G) 585 P.S.I.

Initial Hydrostatic Pressure (A) 1100 P.S.I. Final Hydrostatic Pressure (H) 1100 P.S.I. Maximum Temp. 98

INFORMATION

BLOW air throughout test

Did Well Flow Yes No Recovery Total Ft. 460 Gas in pipe

20' slightly gas cut mud

Reversed Out Yes No Mud Type Chem Viscosity 44 Weight 10.1 Water Loss 12 cc. Chlorides 1900 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -

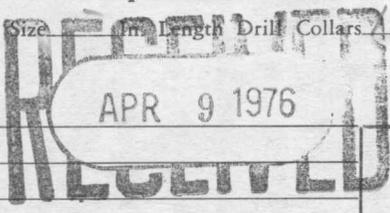
Dual Packers yes Did Packers Hold? yes Did Tool Plug? no Where? -

DRILLING CONTRACTOR B&N Drilling #11 Length Drill Pipe 1850 ft. I.D. Drill Pipe 2.7 In. Tool Joint Size 3 1/2 IF In.

Length Weight Pipe - ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 20 ft. I.D. Drill Collars 2 In.

Tool Joint Size 3 1/2 IF In. Length D.S.T. Tool 30 ft.

Remarks



INVOICE SECTION

Open Hole Test	\$ 320.00
Straddle Test	\$
Jars	\$
Selective Zone	\$
Safety Joint	\$
Misrun	\$
Evaluation	\$
Packer	\$
Circ. Sub.	\$
Total	\$ 320.00

COMPANY TERMS

Western Testing Co., Inc., shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By [Signature] Western Representative Norman Allen

Signature of Customer or his Authorized Representative

Operator's Time _____ Hrs.

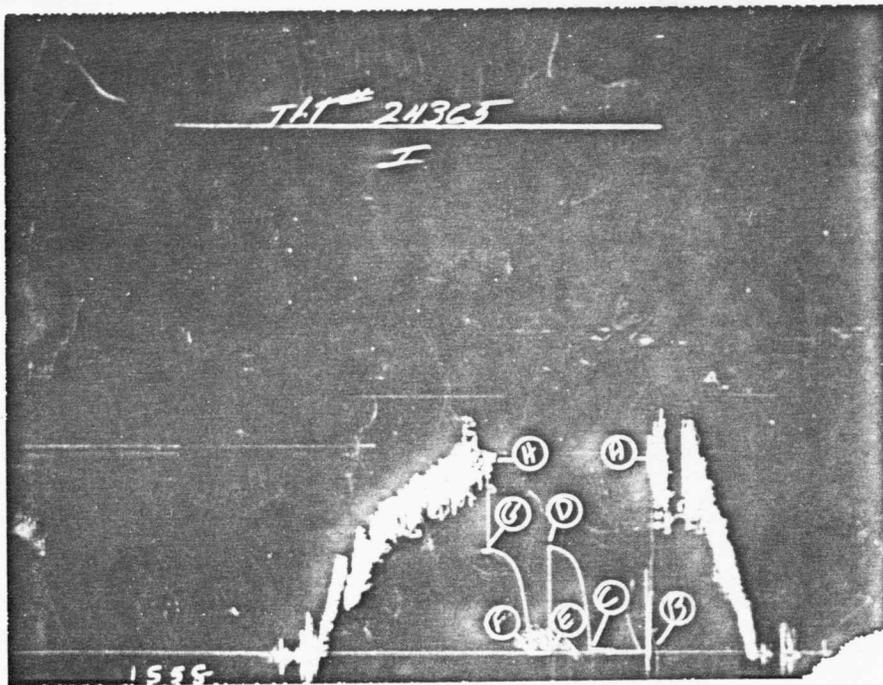
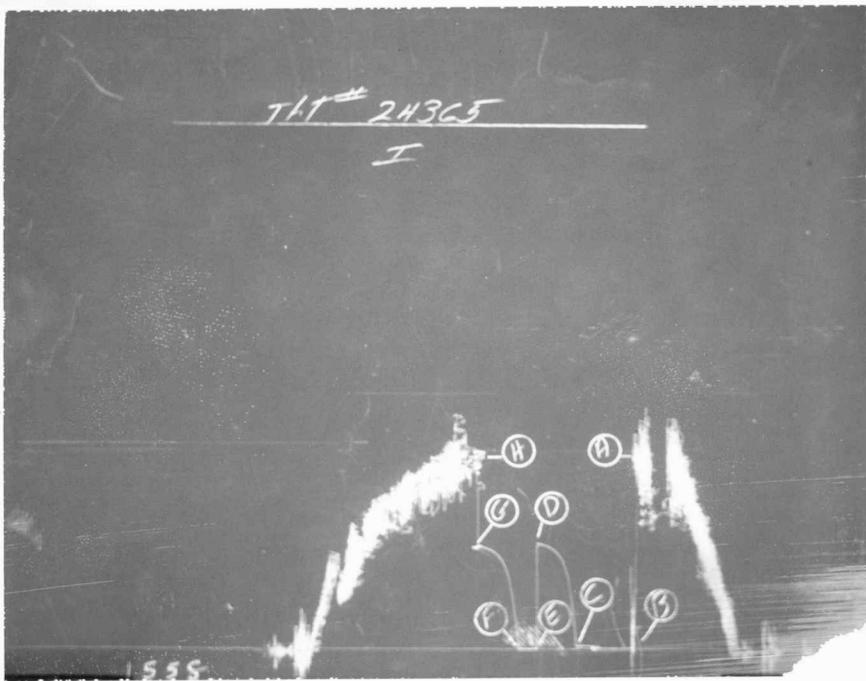
WESTERN TESTING CO., INC.
Pressure Data

Order No. 1558 Capacity 4200 Location 1993 Ft.
 Well No. 9103 Elevation 1101 GL Well Temperature 98 °F
 Test Ticket No. 24365

Point	Pressure	Unit	Open Tool	Time Given	Time Computed
Initial Hydrostatic Mud	<u>1100</u>	P.S.I.		<u>6:58 P.M.</u>	
First Initial Flow Pressure	<u>8</u>	P.S.I.	First Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
First Final Flow Pressure	<u>20</u>	P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
Initial Closed-in Pressure	<u>602</u>	P.S.I.	Second Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
Second Initial Flow Pressure	<u>27</u>	P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
Second Final Flow Pressure	<u>2</u>	P.S.I.			
Final Closed-in Pressure	<u>585</u>	P.S.I.			
Final Hydrostatic Mud	<u>1094</u>	P.S.I.			

PRESSURE BREAKDOWN

Time	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown	Inc.	Breakdown	Inc.	Breakdown	Inc.	Breakdown	Inc.
0	<u>9</u>		<u>10</u>		<u>3</u>		<u>10</u>	
5	<u>5</u>	mins.	<u>3</u>	mins.	<u>5</u>	mins.	<u>3</u>	mins.
0	<u>0</u>	Min.	<u>0</u>	Min.	<u>0</u>	Min.	<u>0</u>	Min.
0	<u>8</u>	Press.	<u>0</u>	Point Minutes	<u>7</u>	Press.	<u>2</u>	Point Minutes
5	<u>8</u>		<u>3</u>		<u>5</u>		<u>209</u>	
10	<u>8</u>		<u>6</u>		<u>2</u>		<u>347</u>	
15	<u>8</u>		<u>9</u>		<u>2</u>		<u>437</u>	
20	<u>18</u>		<u>12</u>		<u>20</u>		<u>492</u>	
25	<u>18</u>		<u>15</u>		<u>25</u>		<u>524</u>	
30	<u>28</u>		<u>18</u>		<u>30</u>		<u>546</u>	
35	<u>19</u>		<u>21</u>		<u>35</u>		<u>559</u>	
40	<u>19</u>		<u>24</u>		<u>40</u>		<u>571</u>	
45	<u>20</u>		<u>27</u>		<u>45</u>		<u>579</u>	
50			<u>30</u>		<u>50</u>		<u>585</u>	
55			<u>33</u>		<u>55</u>			
60			<u>36</u>		<u>60</u>			
			<u>39</u>		<u>65</u>			
			<u>42</u>		<u>70</u>			
			<u>45</u>		<u>75</u>			
			<u>48</u>		<u>80</u>			
			<u>51</u>		<u>85</u>			
			<u>54</u>		<u>90</u>			
			<u>57</u>					
			<u>60</u>					





Home Office: Wichita, Kansas 67201
 P. O. Box 1599 (316) 838-0601

Company K.R.M. Petroleum Co. Lease & Well No. Barner #1
 Elevation 1101 Ground Level Formation Mississippi Effective Pay - Ft. Ticket No. 24365
 Date 4-6-76 Sec. 35 Twp. 31S Range 10E County Elk State Kansas
 Test Approved by F.W. Morgan Western Representative Norman Allen

Formation Test No. 1 O.K. Misrun Interval Tested From 1990' to 2000' Total Depth 2000'
 Size Main Hole 6 1/4 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Top Packer Depth 1985 Ft. Size 5 1/2 Bottom Packer Depth 1990 Ft. Size 5 1/2
 Straddle Conv. B.T. Damaged Yes No Packer Depth - Ft. Size -
 Tool Size 4 1/2 OD Tool Joint Size 3 1/2 IF Anchor Length 10 Ft. Size 4 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 1993 Ft. Clock No. 9103 Depth 1996 Ft. Clock No. 6859
 Top Make Kuster Cap. 4200 No. 1558 Inside Bottom Make Kuster Cap. 3150 No. 1564 Inside
 Below Straddle: Depth - Rec. No. - Clock No. - Inside Depth - Ft. Rec. No. - Clock No. - Outside

Time Set Packer 6:58 P M
 Tool Open I.F.P. From 7:00 P. M. to 7:45 P. M. - Hr. 45 Min. From (B) 8 P.S.I. To (C) 20 P.S.I.
 Tool Closed I.C.I.P. From 7:45 P. M. to 8:15 P. M. - Hr. 30 Min (D) 602 P.S.I.
 Tool Open F.F.P. From 8:15 P. M. to 8:30 P. M. - Hr. 15 Min. From (E) 7 P.S.I. To (F) 2 P.S.I.
 Tool Closed F.C.I.P. From 8:30 P. M. to 9:00 P. M. - Hr. 30 Min. (G) 585 P.S.I.
 Initial Hydrostatic Pressure (A) 1100 P.S.I. Final Hydrostatic Pressure (H) 1094 P.S.I. Maximum Temp. 98

INFORMATION

BLOW Fair blow throughout test.
 Did Well Flow Yes No Recovery Total Ft. 460' gas in pipe. 20' slightly gas cut mud.

Reversed Out Yes No Mud Type chem Viscosity 44 Weight 10.1 Water Loss 12. cc. Chlorides 1900 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer yes Did Packers Hold? yes Did Tool Plug? no Where? -

DRILLING CONTRACTOR B&N Drlg. Co. Length Drill Pipe 1850 Ft. I.D. Drill Pipe 2.7 In. Tool Joint Size 3 1/2 IF In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 120 Ft. I.D. Drill Collars 2 In.

Tool Joint Size 3 1/2 IF In. Length D.S.T. Tool 30 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 4-6-76

Test Ticket No. 24365

Recorder No. 1558 Capacity 4200 Location 1993 Ft.

Clock No. 9103 Elevation 1101 Ground Level Well Temperature 98 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>1100</u> P.S.I.	Open Tool	<u>6:58</u> P. M.	
B. First Initial Flow Pressure	<u>8</u> P.S.I.	First Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
C. First Final Flow Pressure	<u>20</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D. Initial Closed-in Pressure	<u>602</u> P.S.I.	Second Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
E. Second Initial Flow Pressure	<u>7</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F. Second Final Flow Pressure	<u>2</u> P.S.I.			
G. Final Closed-in Pressure	<u>585</u> P.S.I.			
H. Final Hydrostatic Mud	<u>1094</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>3</u> Inc.		Breakdown: <u>10</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>8</u>	<u>0</u>	<u>20</u>	<u>0</u>	<u>7</u>	<u>0</u>	<u>2</u>
P 2 <u>5</u>	<u>8</u>	<u>3</u>	<u>272</u>	<u>5</u>	<u>5</u>	<u>3</u>	<u>209</u>
P 3 <u>10</u>	<u>8</u>	<u>6</u>	<u>409</u>	<u>10</u>	<u>2</u>	<u>6</u>	<u>347</u>
P 4 <u>15</u>	<u>8</u>	<u>9</u>	<u>481</u>	<u>15</u>	<u>2</u>	<u>9</u>	<u>437</u>
P 5 <u>20</u>	<u>8</u>	<u>12</u>	<u>515</u>			<u>12</u>	<u>492</u>
P 6 <u>25</u>	<u>8</u>	<u>15</u>	<u>550</u>			<u>15</u>	<u>524</u>
P 7 <u>30</u>	<u>8</u>	<u>18</u>	<u>568</u>			<u>18</u>	<u>546</u>
P 8 <u>35</u>	<u>19</u>	<u>21</u>	<u>581</u>			<u>21</u>	<u>559</u>
P 9 <u>40</u>	<u>19</u>	<u>24</u>	<u>591</u>			<u>24</u>	<u>571</u>
P10 <u>45</u>	<u>20</u>	<u>27</u>	<u>597</u>			<u>27</u>	<u>579</u>
P11		<u>30</u>	<u>602</u>			<u>30</u>	<u>585</u>
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							