



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET 20483

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

Formation KC Elevation 2261KB Eff. Pay Ft.

District Hill City Date 5 11/74 Customer Order No.
COMPANY NAME Maak Oil Co.
ADDRESS Wichita Kan. 812 Union Center Bldg
LEASE AND WELL NO. Herb #1 COUNTY Trego STATE Kansas Sec. 12 Twp. 17 Rge. 22
Mail Inv. To Box 400 Duncan Smith Co. 73533 No. Copies Requested Reg
Co. Name Address
Mail Charts To Same No. Copies Requested Reg
Address

Formation Test No. 1 O.K. Misrun Interval Tested From 3616 to 3668 Total Depth 3668
Size Main Hole 7/8 Rat Hole Conv. (BT) Damaged Yes No B.T. Damaged Yes No
Top Packer Depth 3611 Ft. Size 6 3/4 Bottom Packer Depth 3616 Ft. Size 6 3/4
Straddle No Conv. B.T. Damaged Yes No Packer Depth Ft. Size
Tool Size 5/2 OD Tool Joint Size 4 1/2 PH Anchor Length 52 Ft. Size 5/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 3660 Ft. Clock No. 6996 Depth 3663 Ft. Clock No. 4914
Top Make Kuster Cap. 4500 No. 3096 Inside Bottom Make Kuster Cap. 4200 No. 1558 Inside
Below Straddle: Depth Rec. No. Clock No. Inside Depth Ft. Rec. No. Clock No. Outside

Time Set Packer 9:27 P M
Tool Open I.F.P. From 9:30 M. to 10:00 M. — Hr. 30 Min. From (B) 94 P.S.I. To (C) 402 P.S.I.
Tool Closed I.C.I.P. From 10:00 M. to 10:30 M. — Hr. 30 Min. (D) 1136 1146 P.S.I.
Tool Open F.F.P. From 10:30 M. to 11:00 M. — Hr. 30 Min. From (E) 462 458 To (F) 590 586 P.S.I.
Tool Closed F.C.I.P. From 11:00 M. to 11:30 M. — Hr. 30 Min. (G) 1136 1130 P.S.I.
Initial Hydrostatic Pressure (A) 1866 P.S.I. Final Hydrostatic Pressure (H) 1431 1854 P.S.I. Maximum Temp. 1150

INFORMATION

BLOW strong Bottom Bucket Gas to surface 5 min.
after tool closed FCIP.
Did Well Flow Yes No Recovery Total Ft. 120' GCOM 1580' Froggy 5 1/2 bil
37 Gravity

Reversed Out Yes No Mud Type starch Viscosity 40 Weight 9.7 Water Loss 138 cc. Chlorides
EXTRA EQUIPMENT: Type Circ. Sub. Plug Safety Joint No Jars: Size In. Make Ser. No.
Dual Packers yes Did Packers Hold? yes Did Tool Plug? NO Where?
DRILLING CONTRACTOR Rains & Williamson Length Drill Pipe 2654 ft. I.D. Drill Pipe 3 1/4 In. Tool Joint Size 4 1/2 In.
Length Weight Pipe 942 ft. I.D. Weight Pipe 2.8 In. Tool Joint Size 4 1/2 In. Length Drill Collars ft. I.D. Drill Collars In.
Tool Joint Size In. Length D.S.T. Tool 72 ft.

Remarks
K. G. S. LIBRARY

INVOICE SECTION

Open Hole Test	\$ <u>255.00</u>
Straddle Test	\$ <u> </u>
Jars	\$ <u> </u>
Selective Zone	\$ <u> </u>
Safety Joint	\$ <u> </u>
Misrun	\$ <u> </u>
Evaluation	\$ <u> </u>
Packer	\$ <u> </u>
Circ. Sub.	\$ <u> </u>
Total	\$ <u>255.00</u>

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 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Dennis Sporing Western Representative Dennis Sporing
Signature of Customer or his Authorized Representative Operator's Time Hrs.

WESTERN TESTING CO., INC.
Pressure Data

Date 5/18/74 Test Ticket No. 20483
 Recorder No. 3086 Capacity 4500 Location 3660 Ft.
 Clock No. 6896 Elevation 2261 K.B. Well Temperature 115 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1854</u>	P.S.I.	<u>9:27^P</u>	<u>M</u>
B First Initial Flow Pressure	<u>90</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
C First Final Flow Pressure	<u>407</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
D Initial Closed-in Pressure	<u>1146</u>	P.S.I.	<u>30</u>	Mins. <u>25</u> Mins.
E Second Initial Flow Pressure	<u>458</u>	P.S.I.	<u>30</u>	Mins. <u>33</u> Mins.
F Second Final Flow Pressure	<u>586</u>	P.S.I.		
G Final Closed-in Pressure	<u>1130</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1854</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Initial Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Second Flow Pressure Breakdown: <u>5</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: <u>11</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>90</u>	<u>0</u>	<u>407</u>	<u>0</u>	<u>458</u>	<u>0</u>	<u>586</u>
P 2 <u>5</u>	<u>188</u>	<u>3</u>	<u>890</u>	<u>5</u>	<u>463</u>	<u>3</u>	<u>947</u>
P 3 <u>10</u>	<u>273</u>	<u>6</u>	<u>967</u>	<u>10</u>	<u>498</u>	<u>6</u>	<u>1001</u>
P 4 <u>15</u>	<u>319</u>	<u>9</u>	<u>1013</u>	<u>15</u>	<u>522</u>	<u>9</u>	<u>1031</u>
P 5 <u>20</u>	<u>346</u>	<u>12</u>	<u>1049</u>	<u>20</u>	<u>551</u>	<u>12</u>	<u>1056</u>
P 6 <u>25</u>	<u>384</u>	<u>15</u>	<u>1074</u>	<u>25</u>	<u>586</u>	<u>15</u>	<u>1075</u>
P 7 <u>30</u>	<u>407</u>	<u>18</u>	<u>1096</u>	<u>30</u>		<u>18</u>	<u>1089</u>
P 8		<u>21</u>	<u>1110</u>	<u>35</u>		<u>21</u>	<u>1100</u>
P 9		<u>24</u>	<u>1125</u>	<u>40</u>		<u>24</u>	<u>1107</u>
P10		<u>27</u>	<u>1136</u>	<u>45</u>		<u>27</u>	<u>1115</u>
P11		<u>30</u>	<u>1146</u>	<u>50</u>		<u>30</u>	<u>1125</u>
P12				<u>55</u>		<u>33</u>	<u>1130</u>
P13				<u>60</u>		<u>36</u>	
P14				<u>65</u>		<u>39</u>	
P15				<u>70</u>		<u>42</u>	
P16				<u>75</u>		<u>45</u>	
P17							
P18							
P19							
P20							



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

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET 20484

Formation KO Elevation 2261 KB Eff. Pay — Ft.

District Hill City Date 5/19/74 Customer Order No. —

COMPANY NAME Wack Oil Co.

ADDRESS Wichita Kan.

LEASE AND WELL NO. Hart #1 COUNTY Trego STATE Kansas Sec. 12 Twp. 13 Rge. 23

Mail Inv. To 812 Union Center Bldg. Wichita Kan. No. Copies Requested Reg

Mail Charts To Box 400 Duncan, Okla. 73533 Address same No. Copies Requested Reg

Formation Test No. 2 O.K. Misrun Interval Tested From 3711 to 3760 Total Depth 3760

Size Main Hole 7 7/8 Rat Hole — Conv. B.T. Damaged Yes No B.T. Damaged Yes No

Top Packer Depth 3706 Ft. Size 6 3/4 Bottom Packer Depth 3711 Ft. Size 6 3/4

Straddle — Conv. — B.T. — Damaged — Yes No Packer Depth — Ft. Size —

Tool Size 5/2 00 Tool Joint Size 4 1/2 FH Anchor Length 49 Ft. Size 5/2 00 Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 3752 Ft. Clock No. 6896 Depth 3755 Ft. Clock No. 4964

Top Make Kuster Cap. 4500 No. 3086 Inside Bottom Make Kuster Cap. 4500 No. 1558 Inside

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

Time Set Packer 6:27 P.M.

Tool Open I.F.P. From 6:30 M. to 7:00 M. — Hr. 30 Min. From (B) 08 P.S.I. To (C) 08 P.S.I.

Tool Closed I.C.I.P. From 7:00 M. to 7:30 M. — Hr. 30 Min. (D) 165 161 P.S.I.

Tool Open F.F.P. From 7:30 M. to 8:00 M. — Hr. 30 Min. From (E) 2326 P.S.I. To (F) 2326 P.S.I.

Tool Closed F.C.I.P. From 8:00 M. to 8:30 M. — Hr. 30 Min. (G) 47 41 P.S.I.

Initial Hydrostatic Pressure (A) 1981 P.S.I. Final Hydrostatic Pressure (H) 1969 P.S.I. Maximum Temp. 115°

INFORMATION

BLOW Weak Daid 10 min after tool open

Did Well Flow Yes No Recovery Total Ft. 15 feet mud

Reversed Out Yes No Mud Type starch Viscosity 43 Weight 9.8 Water Loss 15.4 cc. Chlorides —

EXTRA EQUIPMENT: Type Circ. Sub. PLUG Safety Joint NO Jars: Size — In. Make — Ser. No. —

Dual Packers yes Did Packers Hold? yes Did Tool Plug? No Where? —

DRILLING CONTRACTOR Rains & Williamson Length Drill Pipe 2749 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 In.

Length Weight Pipe 942 ft. I.D. Weight Pipe 2.8 In. Tool Joint Size 4 1/2 In. Length Drill Collars — ft. I.D. Drill Collars — In.

Tool Joint Size — In. Length D.S.T. Tool 69 ft.

Remarks WACK OIL CO. - 20484

INVOICE SECTION

Open Hole Test	\$ <u>255.00</u>
Straddle Test	\$ <u>—</u>
Jars	\$ <u>—</u>
Selective Zone	\$ <u>—</u>
Safety Joint	\$ <u>—</u>
Misrun	\$ <u>—</u>
Evaluation	\$ <u>—</u>
Packer	\$ <u>—</u>
Circ. Sub.	\$ <u>—</u>
Total	\$ <u>255.00</u>

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All charges subject to 12 % interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Jay P. Dicks Western Representative Dennis Leonard

Signature of Customer or his Authorized Representative

Operator's Time _____ Hrs.

WESTERN TESTING CO., INC.

Pressure Data

Date 5/19/74 Test Ticket No. 20484
 Recorder No. 3086 Capacity 4500 Location 3752 Ft.
 Clock No. 6896 Elevation 2261 K.B. Well Temperature 115 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1908</u>	P.S.I.	<u>6:27</u> M	
B First Initial Flow Pressure	<u>8</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>8</u>	P.S.I.	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>161</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>26</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>26</u>	P.S.I.		
G Final Closed-in Pressure	<u>41</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1896</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Initial Shut-In Breakdown: <u>9</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Second Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>8</u>	<u>0</u>	<u>8</u>	<u>0</u>	<u>26</u>	<u>0</u>	<u>26</u>
P 2 <u>5</u>	<u>8</u>	<u>3</u>	<u>10</u>	<u>5</u>	<u>26</u>	<u>3</u>	<u>26</u>
P 3 <u>10</u>		<u>6</u>	<u>18</u>	<u>10</u>	↓	<u>10</u>	<u>26</u>
P 4 <u>15</u>		<u>9</u>	<u>25</u>	<u>15</u>		<u>26</u>	
P 5 <u>20</u>		<u>12</u>	<u>31</u>	<u>20</u>		<u>26</u>	
P 6 <u>25</u>		<u>15</u>	<u>44</u>	<u>25</u>		<u>28</u>	
P 7 <u>30</u>		<u>18</u>	<u>67</u>	<u>30</u>		<u>30</u>	
P 8		<u>21</u>	<u>99</u>	35		<u>35</u>	
P 9		<u>24</u>	<u>147</u>	40		<u>41</u>	
P10	<u>27</u>	<u>161</u>	45	<u>41</u>			
P11		30		<u>41</u>			
P12				42			
P13				43			
P14				44			
P15				45			
P16				46			
P17				47			
P18				48			
P19				49			
P20				50			