



P. O. BOX 793

PHONE 793-7903

GREAT BEND, KANSAS

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET 15340

Formation Cherokee Elevation 2073 Ft. Pay — Ft.District Great BendDate 11-27-70Customer Order No. —COMPANY NAME D.R. Hauck Oil Co. Inc.ADDRESS 3015 Broadway Wichita 2 Ks.LEASE AND WELL NO. Meyer # A-1COUNTY Edwards STATE Kansas Sec. 16 Twp. 25S Rge. 16WMail Inv. To SameFLSAboveNo. Copies Requested RegCo. Name "Address "Mail Charts To "No. Copies Requested RegFormation Test No. 1 O.K. ✓ Misrun — Interval Tested From 4340 to 4355 Total Depth 4355Size Main Hole 7 7/8 Rat Hole — Conv. — B.T. ✓ Damaged — Yes ✓ No — Conv. — B.T. ✓ Damaged — Yes ✓ No —Packer Depth 4335 Ft. Size 6 7/8 Packer Depth 4340 Ft. Size 6 7/8Straddle — Yes — No ✓ Conv. — B.T. — Damaged — Yes — No —Packer Depth — Ft. Size —Tool Size 5 1/2 OD Tool Jt. Size 4 1/2 F.H. Anchor Length 15 Ft. Size 5 1/2 ODRECORDERS Depth 4347 Ft. Clock No. 6800Depth 4350 Ft. Clock No. 9712Top Make Kuster Cap. 4150 No. 2605 Inside —Bottom Make Kuster Cap. 4250 No. 1051 Inside —Below Straddle: Depth — Clock No. — Inside —Depth — Ft. Clock No. — Inside —Top Make — Cap. — No. — Inside —Bottom Make — Cap. — No. — Inside —Time Set Packer 10:42 P. M.Tool Open I.F.P. From 10:45 M. to 11:15 M. Hr. 30 Min. From (B) 63 56 P.S.I. To (C) 63 56 P.S.I.Tool Closed I.C.I.P. From 11:15 M. to 11:45 M. Hr. 30 Min. (D) 912 910 P.S.I.Tool Open F.F.P. From 11:45 M. to 12:15 M. Hr. 30 Min. From (E) 63 56 P.S.I. To (F) 63 56 P.S.I.Tool Closed F.C.I.P. From 12:15 M. to 12:45 M. Hr. 30 Min. (G) 902 905 P.S.I.Initial Hydrostatic Pressure (A) 2204 2202 P.S.I. Final Hydrostatic Pressure (H) 2173 2178 P.S.I.SURFACE Size Choke 3 1/4 In. Max. Press. P.S.I. — Time — Description of Flow —

INFORMATION

BLOW Strong Gas Surface in 12 Min. To Small To Gage Bottom Choke Size 3 1/4 In.Did Well Flow ✓ Yes — No — Recovery Total Ft. 120 Heavy Mud Cut Gassy Oil60 Gassy Mud Cut OilReversed Out — Yes — No ✓ Mud Type starch Viscosity 39 Weight 9.2 Water Loss 14.2 cc. Maximum Temp 123 °FType Circ. Sub. Pill Safety Joint — Jars: Size — Make — Ser. No. —EXTRA EQUIPMENT: Dual Packers 2 Did Packer Hold? Yes Did Tool Plug? — Where? —Length Drill Pipe 3883 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 435 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars — ft.I. D. Drill Collars — in. Length D.S.T. Tool 37 ft.Remarks —

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 8% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By W.D. GlaskSignature of Customer or his
Authorized RepresentativeWestern Representative Fry Max KnipeOperator's Time — Hrs.

INVOICE SECTION

Open Hole Test	\$ <u>225.00</u>
Straddle Test	\$ <u>—</u>
Jars	\$ <u>—</u>
Selective Zone	\$ <u>—</u>
Safety Joint	\$ <u>—</u>
Misrun	\$ <u>—</u>
Evaluation	\$ <u>—</u>
Total	\$ <u>225.00</u>

WESTERN TESTING CO., INC.
Pressure Data

Date 11-27-70 Test Ticket No. 15340
Recorder No. 2605 Capacity 4150 Location 4347 Ft.
Clock No. 6800 Elevation 2073 H.B Well Temperature 123 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2202</u> P.S.I.	Open Tool	<u>10:42</u> M	
B First Initial Flow Pressure	<u>56</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>56</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>910</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>32</u> Mins.
E Second Initial Flow Pressure	<u>56</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>56</u> P.S.I.			
G Final Closed-in Pressure	<u>905</u> P.S.I.			
H Final Hydrostatic Mud	<u>2178</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 1 Min.

Initial Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 7 Min.

Second Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 2 Min.

Final Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 7 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>56</u>	<u>0</u>	<u>56</u>	<u>0</u>	<u>56</u>	<u>0</u>	<u>56</u>
P 2 <u>5</u>		<u>3</u>	<u>819</u>	<u>5</u>		<u>3</u>	<u>839</u>
P 3 <u>10</u>		<u>6</u>	<u>891</u>	<u>10</u>		<u>6</u>	<u>839</u>
P 4 <u>15</u>		<u>9</u>	<u>902</u>	<u>15</u>		<u>9</u>	<u>883</u>
P 5 <u>20</u>		<u>12</u>	<u>906</u>	<u>20</u>		<u>12</u>	<u>893</u>
P 6 <u>25</u>		<u>15</u>	<u>907</u>	<u>25</u>		<u>15</u>	<u>900</u>
P 7 <u>30</u>	<u>56</u>	<u>18</u>	<u>908</u>	<u>30</u>		<u>18</u>	<u>902</u>
P 8		<u>21</u>	<u>909</u>	<u>32</u>	<u>56</u>	<u>21</u>	<u>903</u>
P 9		<u>24</u>	<u>910</u>	<u>40</u>		<u>24</u>	<u>904</u>
P10		<u>27</u>	<u>910</u>	<u>45</u>		<u>27</u>	<u>904</u>
P11		<u>30</u>	<u>910</u>	<u>50</u>		<u>30</u>	<u>905</u>
P12				<u>55</u>			
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



WESTERN TESTING CO., INC. FORMATION TESTING

TICKET **15341**

P. O. BOX 793 PHONE 793-7903

GREAT BEND, KANSAS

Formation M155 Elevation 2073.5 KB Pay 11 Ft.

District Great Bend

Date 11-28-70

Customer Order No. 6720

COMPANY NAME D. R. Lauck Oil Co. Inc.

ADDRESS 3015 Broadway Wichita KS

LEASE AND WELL NO. Meyer #A-1

COUNTY Edwards STATE Kansas Sec 16 Twp 25 Rge 16

Mail Inv. To Same AS

No. Copies Requested Reg

Co. Name 11

Address 11

Mail Charts To 11

No. Copies Requested Reg

Formation Test No. 2 O.K. ☒ Misrun ☐ Interval Tested From 403 to 4420 Total Depth 4420

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

Packer Depth 4375 Ft. Size 6 3/4 Packer Depth 4378 Ft. Size 6 3/4

Straddle ☐ Yes ☒ No ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No

Packer Depth 11 Ft. Size 11

Tool Size 5 1/2 O.D. Tool Jt. Size 4 1/2 FH Anchor Length 37 Ft. Size 5 1/2 O.D.

RECORDERS Depth 4412 Ft. Clock No. 6800 Depth 4415 Ft. Clock No. 9712

Top Make Kuster Cap. 4150 No. 2605 Inside Outside Bottom Make Kuster Cap. 4250 No. 1051 Inside Outside

Below Straddle: Depth 11 Clock No. 11 Inside Outside Depth 11 Ft. Clock No. 11 Inside Outside

Top Make 11 Cap. 11 No. 11 Inside Outside Bottom Make 11 Cap. 11 No. 11 Inside Outside

Time Set Packer 2:57 P M

Tool Open I.F.P. From 3:00 M. to 3:30 M. Hr. 30 Min. From (B) 179 P.S.I. To (C) 444 P.S.I.

Tool Closed I.C.I.P. From 3:30 M. to 4:04 M. Hr. 34 Min. (D) 1006 P.S.I.

Tool Open F.F.P. From 4:04 M. to 4:34 M. Hr. 30 Min. From (E) 518 P.S.I. To (F) 715 P.S.I.

Tool Closed F.C.I.P. From 4:34 M. to 5:04 M. Hr. 30 Min. (G) 1004 P.S.I.

Initial Hydrostatic Pressure (A) 2236 P.S.I. Final Hydrostatic Pressure (H) 2204 P.S.I.

SURFACE Size Choke 34 In. Max. Press. P.S.I. Time Description of Flow

INFORMATION 11 M. 11 M. 11 M.

BLOW Strong Gas Surface in 7 min to small to Boze Bottom Choke Size 34 In.

Did Well Flow Yes Recovery Total Ft. 1800' Fluid - 1560' Very Gassy Oil

240' Water

Reversed Out ☒ Yes ☐ No Mud Type Starch Viscosity 38 Weight 9.5 Water Loss 10.2 cc. Maximum Temp 125 °F

Type Circ. Sub. Pin Safety Joint 11 Jars: Size 11 Make 11 Ser. No. 11

EXTRA EQUIPMENT: Dual Packers 2 Did Packer Hold? Yes Did Tool Plug? 11 Where? 11

Length Drill Pipe 3925 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 435 ft. I.D. Weight Pipe 7.7 in. Length Drill Collars 11 ft.

I. D. Drill Collars 11 in. Length D.S.T. Tool 60 ft.

Remarks 11

11

11

COMPANY TERMS

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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 8% interest after 60 days from date of invoice. Any expense incurred for

collection will be added to the original amount.

INVOICE SECTION

Open Hole Test \$ 225.00

Straddle Test \$ 11

Jars \$ 11

Selective Zone \$ 11

Safety Joint \$ 11

Misrun \$ 11

Evaluation \$ 11

Total \$ 225.00

Test Approved By W. L. Clark

Signature of Customer or his

Authorized Representative

Western Representative Tracy Max Knipe

Operator's Time 11 Hrs.

WESTERN TESTING CO., INC.

Pressure Data

Date 11-28-70 Test Ticket No. 15341
 Recorder No. 2605 Capacity 4150 Location 4412 Ft.
 Clock No. 6800 Elevation 2073 K.B Well Temperature 125 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2239</u>	P.S.I.	<u>2:57 P</u>	
B First Initial Flow Pressure	<u>171</u>	P.S.I.		
C First Final Flow Pressure	<u>1006 459</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1006</u>	P.S.I.	<u>34</u>	<u>33</u> Mins.
E Second Initial Flow Pressure	<u>528</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
F Second Final Flow Pressure	<u>723</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
G Final Closed-in Pressure	<u>1003</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2208</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 1 Min.

Initial Shut-In
 Breakdown: 11 Inc.
 of 3 mins. and a
 final inc. of 8 Min.

Second Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 1 Min.

Final Shut-In
 Breakdown: 10 Inc.
 of 5 mins. and a
 final inc. of 5 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>171</u>	<u>0</u>	<u>459</u>	<u>0</u>	<u>528</u>	<u>0</u>	<u>723</u>
P 2 <u>5</u>	<u>260</u>	<u>3</u>	<u>981</u>	<u>5</u>	<u>528</u>	<u>3</u>	<u>985</u>
P 3 <u>10</u>	<u>300</u>	<u>6</u>	<u>995</u>	<u>10</u>	<u>560</u>	<u>6</u>	<u>995</u>
P 4 <u>15</u>	<u>341</u>	<u>9</u>	<u>1000</u>	<u>15</u>	<u>607</u>	<u>9</u>	<u>997</u>
P 5 <u>20</u>	<u>383</u>	<u>12</u>	<u>1004</u>	<u>20</u>	<u>649</u>	<u>12</u>	<u>1000</u>
P 6 <u>25</u>	<u>430</u>	<u>15</u>	<u>1005</u>	<u>25</u>	<u>686</u>	<u>15</u>	<u>1002</u>
P 7 <u>30</u>	<u>459</u>	<u>18</u>	<u>1006</u>	<u>30</u>	<u>723</u>	<u>18</u>	<u>1005</u>
P 8		<u>21</u>	<u>1006</u>	<u>33</u>		<u>21</u>	<u>1003</u>
P 9		<u>24</u>	<u>1006</u>	<u>40</u>		<u>24</u>	<u>1003</u>
P10		<u>27</u>	<u>1006</u>	<u>45</u>		<u>27</u>	<u>1003</u>
P11		<u>30</u>	<u>1006</u>	<u>50</u>		<u>30</u>	<u>1003</u>
P12		<u>33</u>	<u>1006</u>	<u>55</u>			
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



P. O. BOX 793

PHONE 793-7903

GREAT BEND, KANSAS

WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET 15264

Formation Kinderhook Elevation 2073 Ft. Pay - Ft.District Great Bend Date 11-29-70 Customer Order No. -COMPANY NAME D. R. HAUCK Oil Company Inc. ADDRESS 301 South Bldg.LEASE AND WELL NO. Meyer A-1 COUNTY Edwards STATE KS Sec. 16 Twp. 25 Rge. 16Mail Inv. To SAME Co. Name - Address - No. Copies Requested 1Mail Charts To SAME Address - No. Copies Requested -Formation Test No. 3 O.K. ☒ Misrun ☐ Interval Tested From 4457 to 4470 Total Depth 4470Size Main Hole 7 7/8 Rat Hole - Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ NoPacker Depth 4452 Ft. Size 6 3/4 Packer Depth 4457 Ft. Size 6 3/4Straddle ☐ Yes ☐ No ☒ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ NoPacker Depth - Ft. Size -Tool Size 5 1/2 OD Tool Jt. Size 4 1/2 FH Anchor Length 13 Ft. Size 5 1/2 ODRECORDERS Depth 4461 Ft. Clock No. 6866 Depth 4464 Ft. Clock No. 8377Top Make KUSTER Cap. 4500 No. 3085 Inside - Bottom Make KUSTER Cap. 4400 No. 2603 Inside -Below Straddle: Depth - Clock No. - Inside - Depth - Ft. Clock No. - Inside -Top Make - Cap. - No. - Inside - Bottom Make - Cap. - No. - Inside -Time Set Packer 11:52 A MTool Open I.F.P. From 11:56 M. to 12:25 M. - Hr. 31 Min. From (B) 11 P.S.I. To (C) 11 P.S.I.Tool Closed I.C.I.P. From 12:25 M. to 12:55 M. - Hr. 30 Min. (D) 23 P.S.I.Tool Open F.F.P. From 12:55 M. to 1:25 M. - Hr. 30 Min. From (E) 18 P.S.I. To (F) 18 P.S.I.Tool Closed F.C.I.P. From 1:25 M. to 1:55 M. - Hr. 30 Min. (G) 18 P.S.I.Initial Hydrostatic Pressure (A) 2337 P.S.I. Final Hydrostatic Pressure (H) 2326 P.S.I.SURFACE Size Choke 3/4 In. Max. Press. P.S.I. - Time - Description of Flow -INFORMATION 1 1 1 1BLOW Weak for 30 min Bottom Choke Size 3/4 In.Did Well Flow - Yes ☒ No ☐ Recovery Total Ft. 40' mudReversed Out ☐ Yes ☒ No ☐ Mud Type Starch Viscosity 45 Weight 9.5 Water Loss 12 cc. Maximum Temp. 124 °FType Circ. Sub. Plug Safety Joint no Jars: Size - Make - Ser. No. -EXTRA EQUIPMENT: Dual Packers yes Did Packer Hold? yes Did Tool Plug? no Where? -Length Drill Pipe 400 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 435 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars - ft.I. D. Drill Collars - in. Length D.S.T. Tool 33 ft.Remarks Open Tool for EE - no blow - flush Tool in 10 min - no blow

COMPANY TERMS

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All charges subject to 8% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

INVOICE SECTION

Open Hole Test	\$ 225.00
Straddle Test	\$
Jars	\$
Selective Zone	\$
Safety Joint	\$
Misrun	\$
Evaluation	\$
Total	\$ 225.00

Test Approved By N. D. Clark Western Representative Leon Elmore

Signature of Customer or his Authorized Representative

Operator's Time - Hrs.

WESTERN TESTING CO., INC.

Pressure Data

Date 11-29-70 Test Ticket No. 15264
 Recorder No. 3085 Capacity 4500 Location 4461 Ft.
 Clock No. 6866 Elevation 2073 K.B. Well Temperature 124 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2339</u> P.S.I.	<u>11:52A</u> M	
B First Initial Flow Pressure	<u>11</u> P.S.I.	<u>31</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>11</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>28</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>12</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>14</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
G Final Closed-in Pressure	<u>26</u> P.S.I.		
H Final Hydrostatic Mud	<u>2319</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 1 Min.

Initial Shut-In
 Breakdown: 10 Inc.
 of 3 mins. and a
 final inc. of 7 Min.

Second Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 1 Min.

Final Shut-In
 Breakdown: 10 Inc.
 of 3 mins. and a
 final inc. of 7 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>11</u>	<u>0</u>	<u>11</u>	<u>0</u>	<u>12</u>	<u>0</u>	<u>14</u>
P 2 <u>5</u>		<u>3</u>	<u>12</u>	<u>5</u>	<u>12</u>	<u>3</u>	<u>15</u>
P 3 <u>10</u>		<u>6</u>	<u>13</u>	<u>10</u>	<u>12</u>	<u>6</u>	<u>16</u>
P 4 <u>15</u>		<u>9</u>	<u>14</u>	<u>15</u>	<u>12</u>	<u>9</u>	<u>17</u>
P 5 <u>20</u>		<u>12</u>	<u>15</u>	<u>20</u>	<u>14</u>	<u>12</u>	<u>18</u>
P 6 <u>25</u>		<u>15</u>	<u>16</u>	<u>25</u>	<u>14</u>	<u>15</u>	<u>19</u>
P 7 <u>30</u>	<u>11</u>	<u>18</u>	<u>17</u>	<u>30</u>	<u>14</u>	<u>18</u>	<u>20</u>
P 8		<u>21</u>	<u>19</u>	<u>35</u>		<u>21</u>	<u>21</u>
P 9		<u>24</u>	<u>22</u>	<u>40</u>		<u>24</u>	<u>23</u>
P 10		<u>27</u>	<u>25</u>	<u>45</u>		<u>27</u>	<u>25</u>
P 11		<u>30</u>	<u>28</u>	<u>50</u>		<u>30</u>	<u>26</u>
P 12				<u>55</u>			
P 13							
P 14							
P 15							
P 16							
P 17							
P 18							
P 19							
P 20							