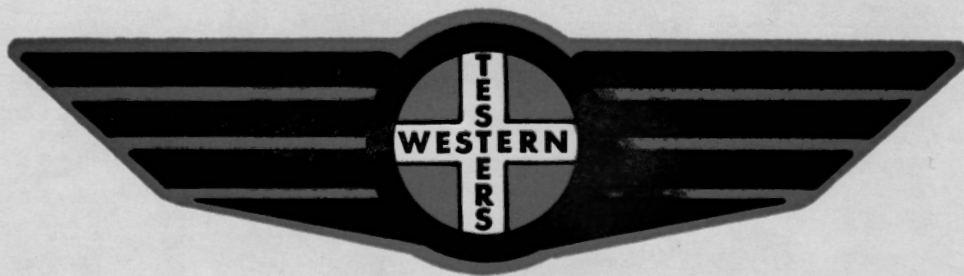


FORMATION TEST REPORT



HOME OFFICE
P. O. BOX 793

GREAT BEND, KANSAS
Gladstone 3-7903

Company National Associated Petroleum
Case and Well No. C. Ware #1
Sec. 5 Twp. 31 Rge. 9E
Test No. 1 Date 11-10-62



Home Office: Great Bend, Kansas

P. O. Box 793

Gladstone 3-7903 Elev. 1169' K.B.

Company National Associated Petroleum Company

Lease & Well No. C. Ware #1

Tkt. #2983

Date 11-10-62

Sec. 5

Twp. 31

Range 9E

County Elk

State

Kansas

Test Approved by David A. Brierley

Western Representative

Jack Toelkes

Formation Test No. 1 O.K. Misrun Interval Tested From 1636' to 1660' Total Depth ~~1660'~~ 1660'

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

Packer Depth 1631 Ft. Size 6 3/4" Packer Depth 1636 Ft. Size 6 3/4"

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

Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 24 Ft. Size 5 1/2" O.D.

RECORDERS Depth 1640 Ft. Clock No. 6861 Depth 1643 Ft. Clock No. 41

Top Make Amerada Cap. 3150# No. 1563 Inside Western Cap. 3000# No. 41 Inside

Below Straddle: Depth _____ Clock No. _____ Outside _____

Top Make _____ Cap. _____ No. _____ Outside _____

Bottom Make _____ Cap. _____ No. _____ Outside _____

Time Set Packer 2:40 A M

Tool Open I.F.P. From 2:42A M. to _____ M. _____ Hr. _____ Min. From (B) _____ P.S.I. To (C) _____ P.S.I.

Tool Closed I.C.I.P. From _____ M. to _____ M. _____ Hr. _____ Min. (D) Not Taken P.S.I.

Tool Open F.F.P. From 2:42A M. to 3:42A M. 1 Hr. _____ Min. From (E) 11 P.S.I. To (F) 23 P.S.I.

Tool Closed F.C.I.P. From 3:42A M. to 4:12A M. _____ Hr. 30 Min. (G) 415 P.S.I.

Initial Hydrostatic Pressure (A) 874 P.S.I. Final Hydrostatic Pressure (H) 841 P.S.I.

SURFACE Size Choke 3/4 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____

INFORMATION _____ M. _____

_____ M. _____

_____ M. _____

BLOW Very weak 31 Mins. Bottom Choke Size 3/4 in.

Did Well Flow Yes No. Recovery Total Ft. 25 Oil _____ Gas _____ Water _____

Reversed Out Yes No Mud Type Chem Viscosity 37 Weight 9.6 Maximum Temp. 102+ °F

EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Jars: Size No Make _____ Ser. No. _____

Type Circ. Sub. Plug Did Tool Plug? No Where? _____ Did Packer Hold? Yes

Remarks 43' Tool and anchor
230' D.C. - 2.25" I.D.
1387' 4 1/2" D.P. - 3.8" I.D.

WESTERN TESTING CO., INC.
Pressure Data

Date 11-10-62 Test Ticket No. IX 2983
 Recorder No. 1563 Capacity 3150 Location 1640 Ft.
 Clock No. 6861 Elevation 1169' K.B. Well Temperature 102+ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>874</u> P.S.I.	Opened Tool	<u>2:42 A</u>	<u>M 2:42 AM</u>
B First Initial Flow Pressure	<u>-</u> P.S.I.	First Flow Pressure	<u>-</u> Mins.	<u>-</u> Mins.
C First Final Flow Pressure	<u>-</u> P.S.I.	Initial Closed-in Pressure	<u>-</u> Mins.	<u>0</u> Mins.
D Initial Closed-in Pressure	<u>Not Taken</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>61</u> Mins.
E Second Initial Flow Pressure	<u>11</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>23</u> P.S.I.			
G Final Closed-in Pressure	<u>415</u> P.S.I.			
H Final Hydrostatic Mud	<u>841</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Press.	Initial Shut-In	Second Flow Pressure	Final Shut-In
Breakdown: _____ Inc.	Breakdown: _____ Inc.	Breakdown: <u>11</u> Inc.	Breakdown: <u>10</u> Inc.
of _____ mins. and a	of _____ mins. and a	of <u>5</u> mins. and a	of <u>3</u> mins. and a
final Inc. of _____ Min.	final inc. of _____ Min.	final inc. of <u>1</u> Min.	final inc. of <u>-</u> Min.

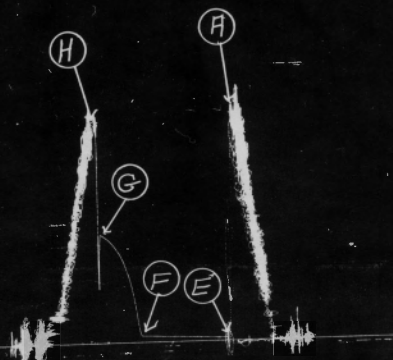
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1				<u>0</u>	<u>11</u>	<u>0</u>	<u>23</u>
P 2				<u>5</u>	<u>12</u>	<u>3</u>	<u>89</u>
P 3				<u>10</u>	<u>12</u>	<u>6</u>	<u>172</u>
P 4				<u>15</u>	<u>13</u>	<u>9</u>	<u>239</u>
P 5				<u>20</u>	<u>15</u>	<u>12</u>	<u>284</u>
P 6				<u>25</u>	<u>16</u>	<u>15</u>	<u>325</u>
P 7				<u>30</u>	<u>17</u>	<u>18</u>	<u>354</u>
P 8				<u>35</u>	<u>17</u>	<u>21</u>	<u>375</u>
P 9				<u>40</u>	<u>19</u>	<u>24</u>	<u>393</u>
P10				<u>45</u>	<u>20</u>	<u>27</u>	<u>406</u>
P11				<u>50</u>	<u>21</u>	<u>30</u>	<u>415</u>
P12				<u>55</u>	<u>22</u>		
P13				<u>60</u>	<u>23</u>		
P14				<u>61</u>	<u>23</u>		
P15							
P16							
P17							
P18							
P19							
P20							

Nat. Ass. Pct. Co. 1st

C. Ware # 1

Test # 1

T.K.T. # 2983





WESTERN TESTING CO., INC.

FORMATION TESTING

P. O. BOX 793 PHONE GL 3-7903
GREAT BEND, KANSAS

TICKET No 2983

116915B

District Augusta Date 11-10-62 Customer Order No. _____

COMPANY NAME Mat and Pat Co. ADDRESS 5th Floor Ritz Bldg Tulsa Okla

LEASE AND WELL NO. C. WARE #1 COUNTY EIK STATE KANS Sec. 5 Twp. 31 Range 9E

Mail Inv. To _____ Co. Name SAME Address _____ No. Copies Requested 1

Mail Charts To _____ Address _____ No. Copies Requested 5

Formation Test No. 1 O.K. Misrun Interval Tested From 1636 to 1660 Total Depth 1660

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

Packer Depth 1631 Ft. Size 6 3/4 Packer Depth 1636 Ft. Size 6 3/4

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

Packer Depth _____ Ft. Size _____

Tool Size 5200 Tool Jt. Size 4 1/2 Fl Anchor Length 24 Ft. Size 5200

RECORDERS Depth 1640 Ft. Clock No. 6861 Depth 1643 Ft. Clock No. 41

Top Make KUSTER Cap. 3150 No. 1563 Inside Outside Bottom Make W.T.C. Cap. 3000 No. 41 Inside Outside

Below Straddle: Depth _____ Clock No. _____ Depth _____ Ft. Clock No. _____

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

Time Set Packer 2:40 A M

Tool Open I.F.P. From 2:42A M. to _____ M. _____ Hr. _____ Min. From (B) NOT TAKEN P.S.I. To (C) _____ P.S.I.

Tool Closed I.C.I.P. From _____ M. to _____ M. _____ Hr. _____ Min. (D) NOT TAKEN P.S.I.

Tool Open F.F.P. From 2:42A M. to 3:12A M. 1 Hr. _____ Min. From (E) 20 P.S.I. To (F) 38 P.S.I.

Tool Closed F.C.I.P. From 3:12A M. to 4:12A M. _____ Hr. 30 Min. (G) 428 P.S.I.

Initial Hydrostatic Pressure (A) 897 P.S.I. Final Hydrostatic Pressure (H) 874 P.S.I.

SURFACE Size Choke 3/4 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____

INFORMATION _____ M. _____

_____ M. _____

_____ M. _____

BLOW Very weak 31 min. Bottom Choke Size 3/4 in.

Did Well Flow Yes No. Recovery Total Ft. 25' Oil _____ Gas _____ Water _____

_____ Mud _____

Reversed Out Yes No Mud Type chem Viscosity 37 Weight 9.6 Maximum Temp. 102+ °F

EXTRA EQUIPMENT: Dual Packers YES Safety Joint NO Jars: Size NO Make _____ Ser. No. _____

Type Circ. Sub. Plug Did Tool Plug? NO Where? _____ Did Packer Hold? YES

Remarks 43' TOOL + ANG 230' DC. 2,125' AD. 1387' 4 1/2 DP. 3,810.

COMPANY TERMS: _____ INVOICE SECTION

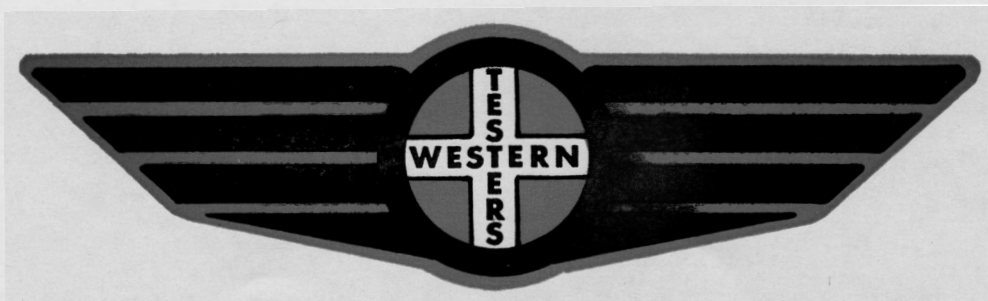
Western Testing Co., Inc., shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made. All charges subject to 6% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Open Hole Test	\$ <u>210 00</u>
Straddle Test	\$ _____
Jars	\$ _____
Safety Joint	\$ _____
Total	\$ <u>210 00</u>

Test Approved By _____ Western Representative Jack Stollman
Signature of Customer or his Authorized Representative

FORMATION TEST REPORT

Company National Associated Ref. Lease and Well No. C. Ware #1 Sec. 5 Twp. 31 Rge. 9E Test No. 2 Date 11-12



HOME OFFICE
P. O. BOX 793

GREAT BEND, KANSAS
Gladstone 3-7903



Home Office: Great Bend, Kansas

Elev. 1169' K.B.

P. O. Box 793

GLadstone 3-7903

Company National Associated Petroleum Company Lease & Well No. C. Ware #1 Tkt. #2984

Date 11-12-62 Sec. 5 Twp. 31 Range 9E County Elk State Kansas

Test Approved by David A. Brierley Western Representative Jack Toelken

Formation Test No. 2 O.K. Misrun Interval Tested From 2338' to 2350' Total Depth 2350'

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

Packer Depth 2331 Ft. Size 6 3/4" Packer Depth 2338 Ft. Size 6 3/4"

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

Packer Depth _____ Ft. Size _____

Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 12 Ft. Size 5 1/2" O.D.

RECORDERS Depth 2342 Ft. Clock No. 6861 Depth 2345 Ft. Clock No. 41

Top Make Amerada Cap. 3150# No. 1563 Inside Outside Bottom Make Western Cap. 3000# No. 41 Inside Outside

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

Top Make _____ Cap. _____ No. _____ Outside Bottom Make _____ Cap. _____ No. _____ Outside

Time Set Packer 3:32 P M

Tool Open I.F.P. From 3:34P M. to 3:38P M. - Hr. 4 Min. From (B) 12 P.S.I. To (C) 12 P.S.I.

Tool Closed I.C.I.P. From 3:38P M. to 4:08P M. - Hr. 30 Min. (D) 706 P.S.I.

Tool Open F.F.P. From 4:08P M. to 5:08P M. 1 Hr. - Min From (E) 19 P.S.I. To (F) 27 P.S.I.

Tool Closed F.C.I.P. From 5:08P M. to 5:38P M. - Hr. 30 Min. (G) 79 P.S.I.

Initial Hydrostatic Pressure (A) 1248 P.S.I. Final Hydrostatic Pressure (H) 1184 P.S.I.

SURFACE Size Choke 3/4 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____

INFORMATION _____ M. _____
_____ M. _____
_____ M. _____

BLOW Very weak - 5 Mins. Bottom Choke Size 3/4 in.

Did Well Flow Yes No. Recovery Total Ft. 15 Oil _____ Gas _____ Water _____

1 Qt. Free Oil 15' Oil Cut Mud Mud

Reversed Out Yes No Mud Type Chem Viscosity 37 Weight 10.3+ Maximum Temp. 108+ °F

EXTRA EQUIPMENT: Dual Packers Safety Joint No Jars: Size No Make _____ Ser. No. _____

Type Circ. Sub. Plug Did Tool Plug? No Where? _____ Did Packer Hold? Yes

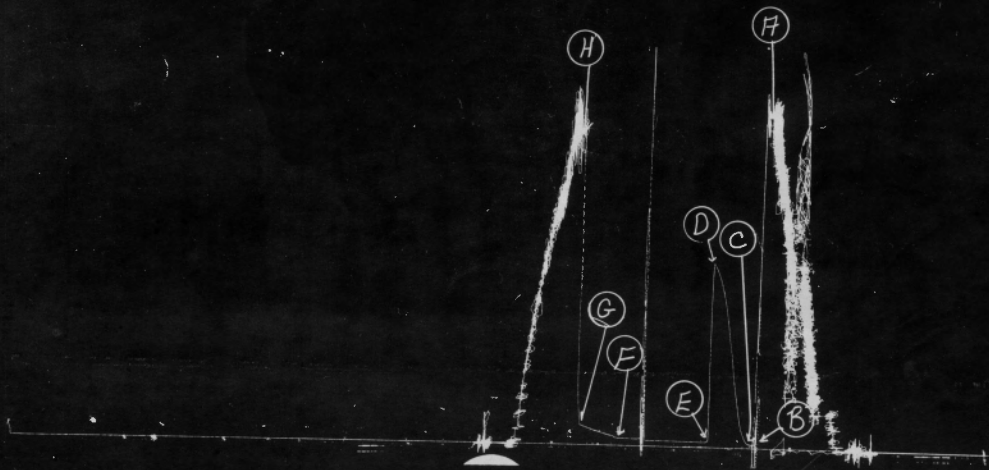
Remarks 34' Tool and anchor Flushed tool after 45 Mins.
230' D.C. - 2.25" I.D. Weak blow 1 Minute
2086' 4 1/2" D.P. - 3.8" I.D.

Nat. Ass. Pet. Co.

Test # 2

C. Ware #1

T.K.T. # 2984





P. O. BOX 793
 PHONE GL 3-7903
 GREAT BEND, KANSAS

WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 2984

1169 KB

District Augusta Date 11-12-62 Customer Order No. _____

COMPANY NAME NAT ASS PET CO. ADDRESS 5TH Floor RITZ Bldg. TULSA OKLA.

LEASE AND WELL NO. C. WARE #1 COUNTY ELK STATE KANSAS Sec. 5 Twp 31 Range 9E

Mail Inv. To _____ Co. Name SAME Address _____ No. Copies Requested 1

Mail Charts To _____ Co. Name SAME Address _____ No. Copies Requested 5

Formation Test No. 2 O.K. Misrun Interval Tested From 2338 to 2350 Total Depth 2350

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

Packer Depth 2331 Ft. Size 6 3/4 Packer Depth 2338 Ft. Size 6 3/4

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

Packer Depth _____ Ft. Size _____

Tool Size 5 1/2 00 Tool Jt. Size 4 1/2 FH Anchor Length 12 Ft. Size 5 1/2 00

RECORDERS Depth 2342 Fr. Clock No. 6861 Depth 2345 Fr. Clock No. 41

Top Make KUSTER Cap. 3150 No. 1563 Inside Bottom Make WTC Cap. 3000 No. 41 Inside

Below Straddle: Depth _____ Clock No. _____ Inside Depth _____ Fr. Clock No. _____ Inside

Top Make _____ Cap. _____ No. _____ Inside Bottom Make _____ Cap. _____ No. _____ Inside

Time Set Packer 3:32 P M

Tool Open I.F.P. From 3:34 P M. to 3:34 P M. Hr. 4 Min. From (B) 10 P.S.I. To (C) 15 P.S.I.

Tool Closed I.C.I.P. From 3:38 P M. to 4:08 P M. Hr. 30 Min. (D) 717 P.S.I.

Tool Open F.F.P. From 4:08 P M. to 5:08 P M. Hr. 1 Min From (E) 31 P.S.I. To (F) 38 P.S.I.

Tool Closed F.C.I.P. From 5:08 P M. to 5:38 P M. Hr. 30 Min. (G) 75 P.S.I.

Initial Hydrostatic Pressure (A) 1331 P.S.I. Final Hydrostatic Pressure (H) 1300 P.S.I.

SURFACE Size Choke 3/4 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____

INFORMATION _____ M. _____

_____ M. _____

_____ M. _____

FLOW Very wk SAMIN Bottom Choke Size 3/4 in.

Mid Well Flow Yes No. Recovery Total Ft. 15 Oil _____ Gas _____ Water _____

19T Free oil 15' oil cut Mud _____

Reversed Out Yes No Mud Type Chem Viscosity 37 Weight 10.3+ Maximum Temp. 108+ °F

EXTRA EQUIPMENT: Dual Packers yes Safety Joint NO Jars: Size NO Make _____ Ser. No. _____

Type Circ. Sub Plug Did Tool Plug? NO Where? _____ Did Packer Hold? yes

Remarks 34' Tool + PVC 230' DC. 2.251.0. 2.086' 4 1/2 DP 3.810.
Flushed Tool AFTER 45 MIN WK DLG LEAD.

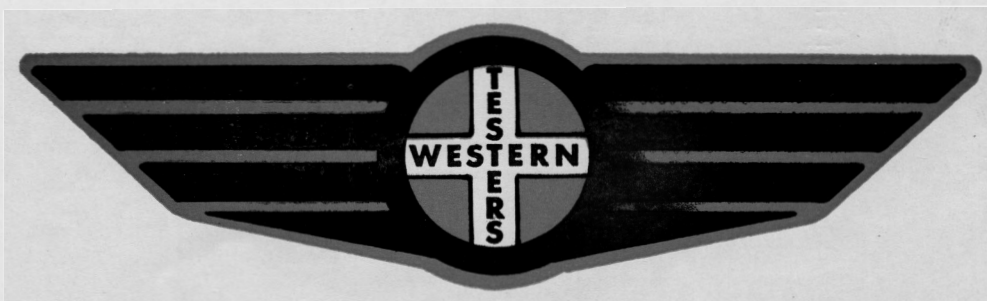
COMPANY TERMS:
 Western Testing Co., Inc., shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.
 All charges subject to 6% 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	\$ <u>210.00</u>
Straddle Test	\$ _____
Jars	\$ _____
Safety Joint	\$ _____
Total	\$ <u>210.00</u>

Test Approved By David A. Brierley Western Representative Jack Toelke
 Signature of Customer or his Authorized Representative

FORMATION TEST REPORT

Company National Associated Pet. Lease and Well No. C. Warr #1 Sec. 5 Twp. 31 Rge. 9E Test No. 3 Date 11-13



HOME OFFICE
P. O. BOX 793

GREAT BEND, KANSAS
Gladstone 3-7903



Home Office: Great Bend, Kansas

Elev. 1169' K.B.

P. O. Box 793

GLadstone 3-7903

Company National Associated Petroleum Company Lease & Well No. C. Ware #1 Tkt. #2985

Date 11-13-62 Sec. 5 Twp. 31 Range 9E County Elk State Kansas

Test Approved by David A. Brierly Western Representative Jack Toelkes

Formation Test No. 3 O.K. Misrun Interval Tested From 2350' to 2366' Total Depth 2366'

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

Packer Depth 2345 Ft. Size 6 3/4" Packer Depth 2350 Ft. Size 6 3/4"

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

Packer Depth _____ Ft. Size _____

Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 16 Ft. Size 5 1/2" O.D.

RECORDERS Depth 2353 Ft. Clock No. 6861 Depth 2356 Ft. Clock No. 41

Top Make Amerada Cap. 3150# No. 1563 Inside Outside Bottom Make Western Cap. 3000# No. 41 Inside Outside

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

Top Make _____ Cap. _____ No. _____ Outside Bottom Make _____ Cap. _____ No. _____ Outside

Time Set Packer 12:03 A M

Tool Open I.F.P. From 12:05A M. to 12:10A M. - Hr. 5 Min. From (B) 14 P.S.I. To (C) 14 P.S.I.

Tool Closed I.C.I.P. From 12:10A M. to 12:40A M. - Hr. 30 Min. (D) 810 P.S.I.

Tool Open F.F.P. From 12:40A M. to 1:40A M. 1 Hr. - Min From (E) 24 P.S.I. To (F) 38 P.S.I.

Tool Closed F.C.I.P. From 1:40A M. to 2:10A M. - Hr. 30 Min. (G) 620 P.S.I.

Initial Hydrostatic Pressure (A) 1287 P.S.I. Final Hydrostatic Pressure (H) 1254 P.S.I.

SURFACE Size Choke 3/4 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____

INFORMATION _____ M. _____ M. _____ M. _____

BLOW Very weak 18 Mins. Bottom Choke Size 3/4 in.

Did Well Flow Yes No Recovery Total Ft. 50 Oil _____ Gas _____ Water _____ Mud 50' Heavy, salty mud with slight scum of oil

Reversed Out Yes No Mud Type Chem Viscosity 41 Weight 10.3 Maximum Temp. 108 1/2 °F

EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Jars: Size No Make _____ Ser. No. _____

Type Circ. Sub. Plug Did Tool Plug? No Where? _____ Did Packer Hold? Yes

Remarks

36' Tool and anchor
230' D. C. - 2.25" I.D.
2116' 4 1/2" D.P. - 3.8" I.D.

WESTERN TESTING CO., INC.
Pressure Data

11-13-62

Date National Associated Petroleum Co.

Test Ticket No. 2985

Recorder No. 1563

Capacity 3150#

Location 2353 Ft.

Clock No. 6861

Elevation 1169' K.B.

Well Temperature 108 $\frac{1}{2}$ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1287</u> P.S.I.	Opened Tool	<u>12:05 A</u> M	<u>12:05 AM</u>
B First Initial Flow Pressure	<u>14</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>14</u> P.S.I.	Initial Closed-In Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>810</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>24</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>38</u> P.S.I.			
G Final Closed-in Pressure	<u>620</u> P.S.I.			
H Final Hydrostatic Mud	<u>1254</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Press.
Breakdown: 1 Inc.
of 5 mins. and a
final inc. of - Min.

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

Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of - Min.

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

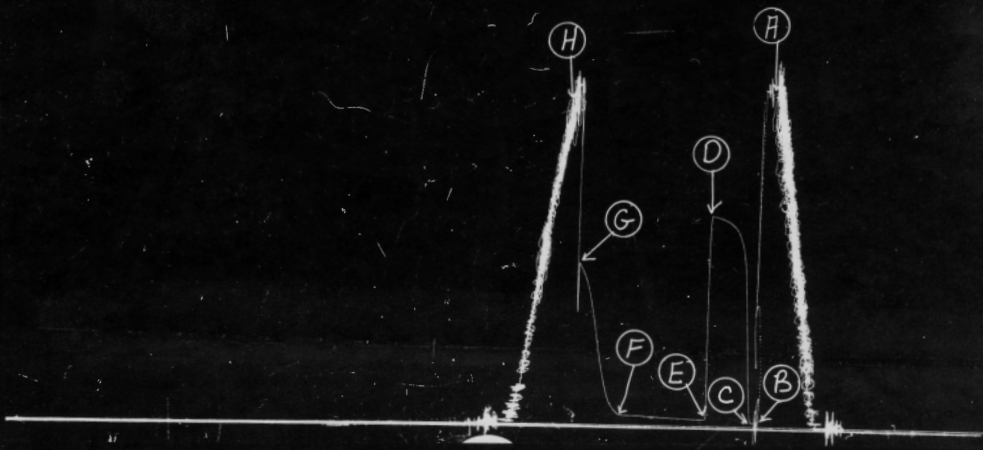
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>14</u>	<u>0</u>	<u>14</u>	<u>0</u>	<u>24</u>	<u>0</u>	<u>38</u>
P 2 <u>5</u>	<u>14</u>	<u>3</u>	<u>289</u>	<u>5</u>	<u>24</u>	<u>3</u>	<u>50</u>
P 3		<u>6</u>	<u>613</u>	<u>10</u>	<u>24</u>	<u>6</u>	<u>68</u>
P 4		<u>9</u>	<u>712</u>	<u>15</u>	<u>26</u>	<u>9</u>	<u>96</u>
P 5		<u>12</u>	<u>753</u>	<u>20</u>	<u>28</u>	<u>12</u>	<u>156</u>
P 6		<u>15</u>	<u>775</u>	<u>25</u> <u>5</u>	<u>29</u>	<u>15</u>	<u>251</u>
P 7		<u>18</u>	<u>786</u>	<u>30</u>	<u>31</u>	<u>18</u>	<u>345</u>
P 8		<u>21</u>	<u>796</u>	<u>35</u>	<u>31</u>	<u>21</u>	<u>457</u>
P 9		<u>24</u>	<u>802</u>	<u>40</u>	<u>32</u>	<u>24</u>	<u>538</u>
P10		<u>27</u>	<u>808</u>	<u>45</u>	<u>34</u>	<u>27</u>	<u>587</u>
P11		<u>30</u>	<u>810</u>	<u>50</u>	<u>36</u>	<u>30</u>	<u>620</u>
P12				<u>55</u>	<u>37</u>		
P13				<u>60</u>	<u>38</u>		
P14							
P15							
P16							
P17							
P18							
P19							
P20							

Nat. Ass. Pet. Co.

Test # 3

C. Ware #1

T.K.T. # 2985





P. O. BOX 793 PHONE GL 3-7903
GREAT BEND, KANSAS

WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET **No** 2985

1169KB

District AUGUSTA Date 11-13-62 Customer Order No. _____
COMPANY NAME NAT ASS PCT CO ADDRESS 5th Floor RITZ Bldg Tulsa OKLA
LEASE AND WELL NO. C WARC #1 COUNTY ELK STATE KANS Sec. 5 Twp. 31 Range 9E
Mail Inv. To SAMAC Co. Name _____ Address _____ No. Copies Requested 1
Mail Charts To SAMAC Address _____ No. Copies Requested 5

Formation Test No. 3 O.K. Misrun Interval Tested From 2350 to 2366 Total Depth 2366
Size Main Hole 7 7/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
Packer Depth 2345 Ft. Size 6 3/4 Packer Depth 2350 Ft. Size 6 3/4
Straddle Yes No Conv. B.T. Damaged Yes No
Packer Depth _____ Ft. Size _____
Tool Size 5 1/2 00 Tool Jt. Size 4 1/2 FH Anchor Length 16 Ft. Size 5 1/2 00

RECORDERS Depth 2353 Ft. Clock No. 6861 Depth 2356 Ft. Clock No. 41
Top Make KUSTOP Cap. 3150 No. 1563 Inside Outside Bottom Make WTC Cap. 3000 No. 41 Inside Outside
Below Straddle: Depth _____ Clock No. _____ Inside Outside Depth _____ Ft. Clock No. _____ Inside Outside
Top Make _____ Cap. _____ No. _____ Inside Outside Bottom Make _____ Cap. _____ No. _____ Inside Outside

Time Set Packer 12:03 A M
Tool Open I.F.P. From 12:05A M. to 12:10A M. Hr. 5 Min. From (B) 10 P.S.I. To (C) 15 P.S.I.
Tool Closed I.C.I.P. From 12:10A M. to 12:40A M. Hr. 30 Min. (D) 816 P.S.I.
Tool Open F.F.P. From 12:40A M. to 1:10A M. Hr. 1 Min. From (E) 27 P.S.I. To (F) 43 P.S.I.
Tool Closed F.C.I.P. From 1:10A M. to 2:10A M. Hr. 30 Min. (G) 634 P.S.I.
Initial Hydrostatic Pressure (A) 1335 P.S.I. Final Hydrostatic Pressure (H) 1323 P.S.I.

SURFACE Size Choke 3/4 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____

BLOW 1200 WK 18 MIN Bottom Choke Size 7/8 in.
Did Well Flow Yes No Recovery Total Ft. 50 Oil _____ Gas _____ Water _____

50' HEAVY SALT MUD W/SLIGHT SCUM OF OIL Mud _____
Reversed Out. Yes No Mud Type CHEM Viscosity 41 Weight 10-3 Maximum Temp. 108 1/2 °F

EXTRA EQUIPMENT: Dual Packers YES Safety Joint NO Jars: Size _____ Make _____ Ser. No. _____
Type Circ. Sub. Plug Did Tool Plug? NO Where? _____ Did Packer Hold? YES
Remarks 36' TOOL + ANC 230' DC-2.2910. 2116 4 1/2 DP 3.810.

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 for at cost by the party for whom the test is made.
All charges subject to 6% 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 \$ 210.00
Straddle Test \$ _____
Jars \$ _____
Safety Joint \$ _____
Total \$ 210.00

Test Approved By Randa A. Brierly Western Representative _____
Signature of Customer or his Authorized Representative