



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 1623

P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

Elevation _____ Formation Douglas Sand Eff. Pay _____ Ft.

District PRATT Date 6-13-79 Customer Order No. _____

COMPANY NAME Bowers Drig.

ADDRESS Wichita, Kans.

LEASE AND WELL NO. PACKARD #2 COUNTY BARBER STATE KANS. Sec. E. Medicine Lodge Twp. 25 Rge. 10

Mail Invoice To Same No. Copies Requested Reg

Co. Name _____ Address _____

Mail Charts To Same No. Copies Requested Reg

Address _____

Formation Test No. 1 Interval Tested from 3477 ft. to 3515 ft. Total Depth 3515 ft.

Packer Depth 3474 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 3479 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3506 ft. Recorder Number 6246 Cap. 5200

Bottom Recorder Depth (Outside) 3509 ft. Recorder Number 5673 Cap. 5400

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____

Drilling Contractor Grabert & Jones Rig 12 Drill Collar Length 408 I. D. 2.2 in.

Mud Type STARCH Viscosity 40 Weight Pipe Length _____ I. D. _____ in.

Weight 9.5 Water Loss _____ cc. Drill Pipe Length 3051 I. D. 3.8 in.

Chlorides 26,000 P.P.M. Test Tool Length 60 in. Tool Size 5 1/2 in.

Jars: Make _____ Serial Number _____ Anchor Length 36 ft. Size 5 1/2 in.

Did Well Flow? NO Reversed Out _____ Surface Choke Size 3/4 in. Bottom Choke Size _____ in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 in.

Blow: STRONG BLOW THRU-OUT TEST.

Recovered 2960 ft. of GAS IN PIPE

Recovered 65 ft. of GAS, CUT MUD

Recovered 120 ft. of Muddy WATER

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

Time Set Packer(s) 4:05 A.M. Time Started Off Bottom 6:50 A.M. Maximum Temperature 109

Initial Hydrostatic Pressure _____ (A) 1616 P.S.I.

Initial Flow Period _____ Minutes (B) 13 P.S.I. to (C) 26 P.S.I.

Initial Closed In Period _____ Minutes (D) 903 P.S.I.

Final Flow Period _____ Minutes (E) 39 P.S.I. to (F) 91 P.S.I.

Final Closed In Period _____ Minutes (G) 903 P.S.I.

Final Hydrostatic Pressure _____ (H) 1603 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages 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, of 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 Robert E. W. Cannon

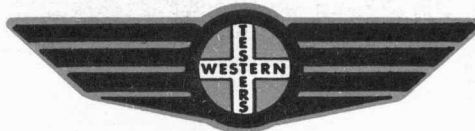
Signature of Customer or his authorized representative

Western Representative Dave Hogg

FIELD INVOICE

Open Hole Test \$ ✓
Misrun \$ _____
Straddle Test \$ _____
Jars \$ _____
Selective Zone \$ _____
Safety Joint \$ _____
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ _____
Mileage \$ _____
Extra Charts \$ _____

TOTAL \$ 1140



Home Office: Wichita, Kansas 67201

P. O. Box 1599

(316) 838-0601

Company Bowers Drilling Company, Inc. Lease & Well No. Packard #2

Elevation -- Formation Douglas Sand Effective Pay -- Ft. Ticket No. 1623

Date 6/13/79 Sec. 12 Twp. 32S Range 12W County Barber State Kansas

Test Approved by Robert E. McCann Western Representative Dave Sloan

Formation Test No. 1 Interval Tested from 3479 ft. to 3515 ft. Total Depth 3515 ft.

Packer Depth 3474 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3479 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 3506 ft. Recorder Number 6246 Cap. 5200

Bottom Recorder Depth (Outside) 3509 ft. Recorder Number 5673 Cap. 5400

Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. --

Drilling Contractor Gabbert-Jones Rig #12 Drill Collar Length 408 I. D. 2.2 in.

Mud Type starch Viscosity 40 Weight Pipe Length -- I. D. -- in.

Weight 9.5 Water Loss -- cc. Drill Pipe Length 3051 I. D. 3.8 in.

Chlorides 26,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.

Jars: Make -- Serial Number -- Anchor Length 36 ft. Size 5 1/2 OD in.

Did Well Flow? No Reversed Out -- Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong blow throughout test.

Recovered 2960 ft. of gas in pipe

Recovered 65 ft. of gas cut mud

Recovered 120 ft. of muddy water

Recovered -- ft. of --

Recovered -- ft. of --

Remarks: --

Time Set Packer(s) 4:05 A.M. Time Started Off Bottom 6:50 A.M. Maximum Temperature 109

Initial Hydrostatic Pressure (A) 1671 P.S.I.

Initial Flow Period Minutes 30 (B) 20 P.S.I. to (C) 47 P.S.I.

Initial Closed In Period Minutes 30 (D) 921 P.S.I.

Final Flow Period Minutes 60 (E) 56 P.S.I. to (F) 99 P.S.I.

Final Closed In Period Minutes 45 (G) 914 P.S.I.

Final Hydrostatic Pressure (H) 1617 P.S.I.

WESTERN TESTING CO., INC.

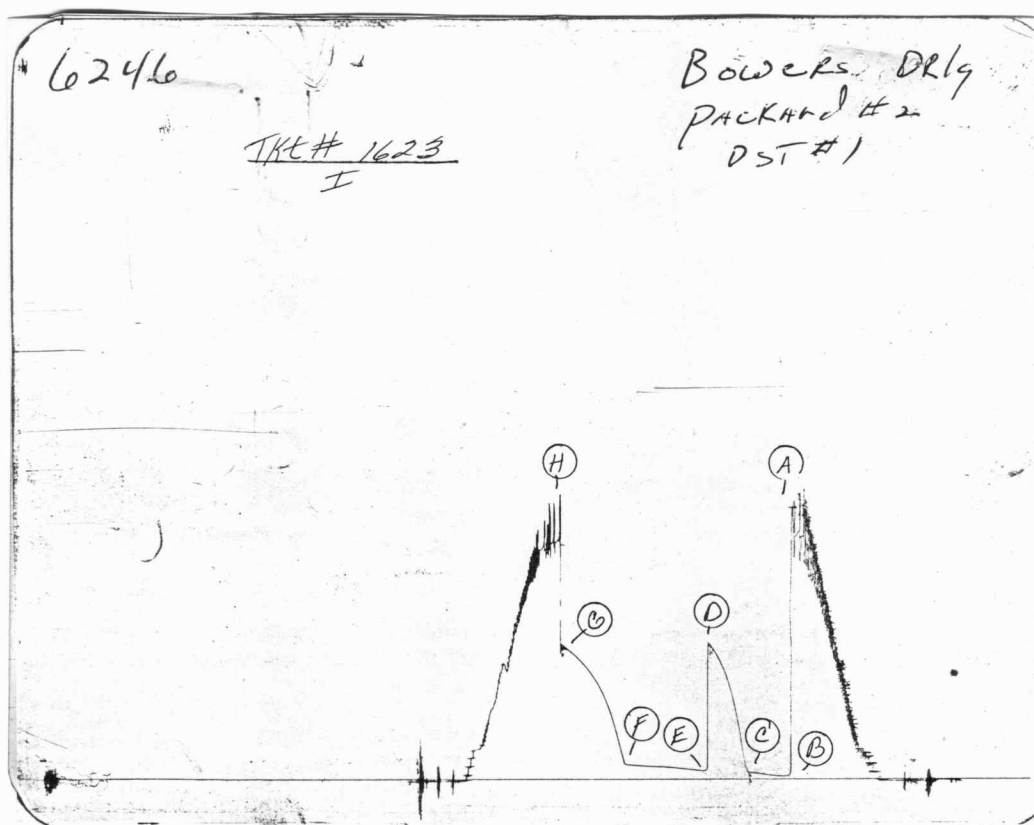
Pressure Data

Date 6 / 13/79 Test Ticket No. 1623
 Recorder No. 6246 Capacity 5200 Location 3506 Ft.
 Clock No. -- Elevation -- Well Temperature 109 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1671</u> P.S.I.	Open Tool	<u>4:05 A</u> M	
B First Initial Flow Pressure	<u>20</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>47</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>921</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>56</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>99</u> P.S.I.			
G Final Closed-in Pressure	<u>914</u> P.S.I.			
H Final Hydrostatic Mud	<u>1617</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>15</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>20</u>	<u>0</u>	<u>47</u>	<u>0</u>	<u>56</u>	<u>0</u>	<u>99</u>
P 2 <u>5</u>	<u>20</u>	<u>3</u>	<u>139</u>	<u>5</u>	<u>58</u>	<u>3</u>	<u>188</u>
P 3 <u>10</u>	<u>20</u>	<u>6</u>	<u>319</u>	<u>10</u>	<u>63</u>	<u>6</u>	<u>296</u>
P 4 <u>15</u>	<u>29</u>	<u>9</u>	<u>461</u>	<u>15</u>	<u>71</u>	<u>9</u>	<u>398</u>
P 5 <u>20</u>	<u>34</u>	<u>12</u>	<u>581</u>	<u>20</u>	<u>74</u>	<u>12</u>	<u>482</u>
P 6 <u>25</u>	<u>39</u>	<u>15</u>	<u>678</u>	<u>25</u>	<u>78</u>	<u>15</u>	<u>547</u>
P 7 <u>30</u>	<u>47</u>	<u>18</u>	<u>749</u>	<u>30</u>	<u>81</u>	<u>18</u>	<u>605</u>
P 8		<u>21</u>	<u>804</u>	<u>35</u>	<u>84</u>	<u>21</u>	<u>654</u>
P 9		<u>24</u>	<u>856</u>	<u>40</u>	<u>87</u>	<u>24</u>	<u>702</u>
P10		<u>27</u>	<u>884</u>	<u>45</u>	<u>89</u>	<u>27</u>	<u>741</u>
P11		<u>30</u>	<u>921</u>	<u>50</u>	<u>93</u>	<u>30</u>	<u>775</u>
P12				<u>55</u>	<u>96</u>	<u>33</u>	<u>801</u>
P13				<u>60</u>	<u>99</u>	<u>36</u>	<u>832</u>
P14						<u>39</u>	<u>856</u>
P15						<u>42</u>	<u>877</u>
P16						<u>45</u>	<u>914</u>
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1616	1671 PSI
(B) First Initial Flow Pressure	13	20 PSI
(C) First Final Flow Pressure	26	47 PSI
(D) Initial Closed-in Pressure	903	921 PSI
(E) Second Initial Flow Pressure	39	56 PSI
(F) Second Final Flow Pressure	91	99 PSI
(G) Final Closed-in Pressure	903	914 PSI
(H) Final Hydrostatic Mud	1603	1617 PSI



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 1624

P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

Elevation _____ Formation Douglas Sand Eff. Pay _____ Ft.

District PRATT Date 6-13-79 Customer Order No. _____

COMPANY NAME BOWERS DRILLING

ADDRESS WICHITA, KANSAS

LEASE AND WELL NO. PACKARD #2 COUNTY BARBER STATE KANS. Sec. _____ Twp. _____ Rge. _____

Mail Invoice To SAME Co. Name _____ Address _____ No. Copies Requested Rep

Mail Charts To SAME Address _____ No. Copies Requested Rep

Formation Test No. 2 Interval Tested from 3528 ft. to 3542 ft. Total Depth 3542 ft.

Packer Depth 3523 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 3528 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3534 ft. Recorder Number 6246 Cap. 5200

Bottom Recorder Depth (Outside) 3537 ft. Recorder Number 5673 Cap. 5300

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____

Drilling Contractor GABBERT & SONES Drill Collar Length 408 I. D. 2.2 in.

Mud Type STARCH Viscosity 40 Weight Pipe Length _____ I. D. _____ in.

Weight 9.5 Water Loss _____ cc. Drill Pipe Length 3100 I. D. 3.8 in.

Chlorides 26,000 P.P.M. Test Tool Length 20 in. Tool Size 5 1/2 O.D. in.

Jars: Make _____ Serial Number _____ Anchor Length 14 ft. Size 5 1/2 O.D. in.

Did Well Flow? NO Reversed Out _____ Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 F.H. in.

Blow: STRONG Blow Thru-out Test. Slight decline

DURING FINAL FLOW PERIOD

Recovered 80 ft. of WATERY MUD

Recovered 360 ft. of WATER 115,000 chloride p.p.m.

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

Time Set Packer(s) 4:30 A.M. Time Started Off Bottom 7:15 A.M. Maximum Temperature 114

Initial Hydrostatic Pressure _____ (A) 1720 P.S.I.

Initial Flow Period _____ Minutes (B) 13 P.S.I. to (C) 65 P.S.I.

Initial Closed In Period _____ Minutes (D) 1007 P.S.I.

Final Flow Period _____ Minutes (E) 91 P.S.I. to (F) 170 P.S.I.

Final Closed In Period _____ Minutes (G) 1007 P.S.I.

Final Hydrostatic Pressure _____ (H) 1707 P.S.I.

COMPANY TERMS

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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 Robert E. McCann

Signature of Customer or his authorized representative

Western Representative Dave Slone

FIELD INVOICE

Open Hole Test \$ 410.00
Misrun \$ _____
Straddle Test \$ _____
Jars \$ _____
Selective Zone \$ _____
Safety Joint \$ _____
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ _____
Mileage \$ _____
Extra Charts \$ _____

TOTAL \$ 410.00



Home Office: Wichita, Kansas 67201

P. O. Box 1599

(316) 838-0601

Company Bowers Drilling Company Lease & Well No. Packard #2
Elevation -- Formation Douglas Sand Effective Pay -- Ft. Ticket No. 1624
Date 6/13/79 Sec. 12 Twp. 32S Range 12W County Barber State Kansas
Test Approved by Robert E. McCann Western Representative Dave Sloan

Formation Test No. 2 Interval Tested from 3528 ft. to 3542 ft. Total Depth 3542 ft.Packer Depth 3523 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.Packer Depth 3528 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.Depth of Selective Zone Set --Top Recorder Depth (Inside) 3534 ft. Recorder Number 6246 Cap. 5200Bottom Recorder Depth (Outside) 5337 ft. Recorder Number 5673 Cap. 5400Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. --Drilling Contractor Gabbert-Jones Drill Collar Length 408 I. D. 2.2 in.Mud Type starch Viscosity 40 Weight Pipe Length - I. D. - in.Weight 9.5 Water Loss -- cc. Drill Pipe Length 3100 I. D. 3.8 in.Chlorides 26,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.Jars: Make -- Serial Number -- Anchor Length 14 ft. Size 5 1/2 OD in.Did Well Flow? No Reversed Out -- Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.Blow: Strong blow throughout test. Slight decline during final flow period.Recovered 80 ft. of watery mudRecovered 360 ft. of water 115,000 chlorides ppmRecovered - ft. of -Recovered - ft. of -Recovered - ft. of -Remarks: -Time Set Packer(s) 4:30 ~~A.M.~~ P.M. Time Started Off Bottom 7:15 ~~A.M.~~ P.M. Maximum Temperature 114Initial Hydrostatic Pressure (A) 1738 P.S.I.Initial Flow Period Minutes 30 (B) 13 P.S.I. to (C) 81 P.S.I.Initial Closed In Period Minutes 30 (D) 1026 P.S.I.Final Flow Period Minutes 60 (E) 107 P.S.I. to (F) 183 P.S.I.Final Closed In Period Minutes 45 (G) 1018 P.S.I.Final Hydrostatic Pressure (H) 1707 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 6/13/79 Test Ticket No. 1624

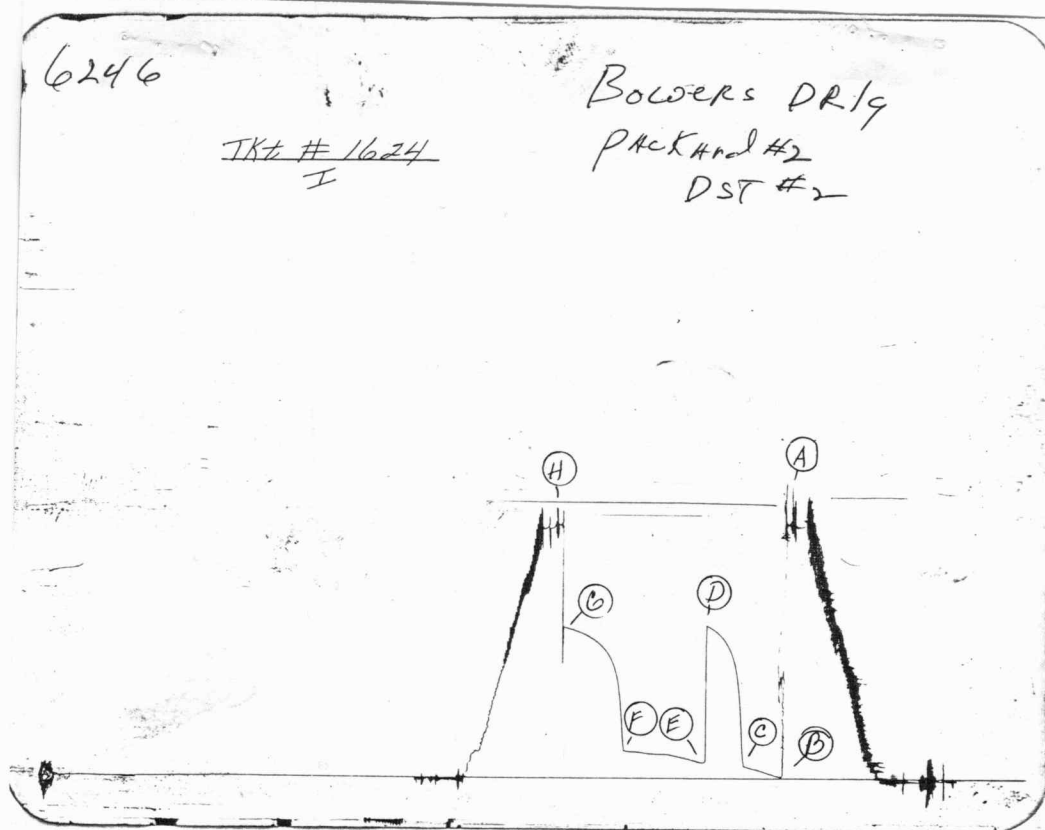
Recorder No. 6246 Capacity 5200 Location 3534 Ft.

Clock No. -- Elevation -- Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1738 P.S.I.	Open Tool	4:30P	M
B First Initial Flow Pressure	13 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	81 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	1026 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	107 P.S.I.	Final Closed-in Pressure	45 Mins.	45 Mins.
F Second Final Flow Pressure	183 P.S.I.			
G Final Closed-in Pressure	1018 P.S.I.			
H Final Hydrostatic Mud	1707 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>15</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>13</u>	<u>0</u>	<u>81</u>	<u>0</u>	<u>107</u>	<u>0</u>	<u>183</u>
P 2 <u>5</u>	<u>14</u>	<u>3</u>	<u>492</u>	<u>5</u>	<u>110</u>	<u>3</u>	<u>484</u>
P 3 <u>10</u>	<u>31</u>	<u>6</u>	<u>723</u>	<u>10</u>	<u>126</u>	<u>6</u>	<u>673</u>
P 4 <u>15</u>	<u>50</u>	<u>9</u>	<u>812</u>	<u>15</u>	<u>136</u>	<u>9</u>	<u>767</u>
P 5 <u>20</u>	<u>60</u>	<u>12</u>	<u>880</u>	<u>20</u>	<u>144</u>	<u>21</u>	<u>825</u>
P 6 <u>25</u>	<u>71</u>	<u>15</u>	<u>919</u>	<u>25</u>	<u>154</u>	<u>15</u>	<u>861</u>
P 7 <u>30</u>	<u>81</u>	<u>18</u>	<u>958</u>	<u>30</u>	<u>160</u>	<u>18</u>	<u>890</u>
P 8		<u>21</u>	<u>984</u>	<u>35</u>	<u>160</u>	<u>21</u>	<u>914</u>
P 9		<u>24</u>	<u>1005</u>	<u>40</u>	<u>164</u>	<u>24</u>	<u>935</u>
P10		<u>27</u>	<u>1018</u>	<u>45</u>	<u>168</u>	<u>27</u>	<u>953</u>
P11		<u>30</u>	<u>1026</u>	<u>50</u>	<u>173</u>	<u>30</u>	<u>969</u>
P12				<u>55</u>	<u>177</u>	<u>33</u>	<u>979</u>
P13				<u>60</u>	<u>183</u>	<u>36</u>	<u>990</u>
P14						<u>39</u>	<u>1000</u>
P15						<u>42</u>	<u>1008</u>
P16						<u>45</u>	<u>1018</u>
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1720	1738 PSI
(B) First Initial Flow Pressure	13	13 PSI
(C) First Final Flow Pressure	65	81 PSI
(D) Initial Closed-in Pressure	1007	1026 PSI
(E) Second Initial Flow Pressure	91	107 PSI
(F) Second Final Flow Pressure	170	183 PSI
(G) Final Closed-in Pressure	1007	1018 PSI
(H) Final Hydrostatic Mud	1707	1707 PSI



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 1704

P. O. BOX 1599 PHONE (316) 838-0601 Elevation 1472' Formation Miss. Eff. Pay Ft.

WICHITA, KANSAS 67201

District PRATT Date 6-16-79 Customer Order No.

COMPANY NAME Bowers Drilling Co.

ADDRESS 1425 Victoria Bldg. Wichita, Kansas 67202

LEASE AND WELL NO. Packard #2 COUNTY Barber STATE KANSAS Sec. Twp. Rge.

Mail Invoice To Co. Name SAME Address No. Copies Requested 5

Mail Charts To SAME Address No. Copies Requested 5

Formation Test No. 3 Interval Tested from 4254 ft. to 4275 ft. Total Depth 4275 ft.

Packer Depth 4249 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 4254 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4257 ft. Recorder Number 2604 Cap. 4150

Bottom Recorder Depth (Outside) 4260 ft. Recorder Number 2606 Cap. 4150

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Abbott & Jones Inc. Drill Collar Length 446 I. D. 2 1/2 in.

Mud Type Heavy Starch Viscosity 39 Weight Pipe Length I. D. in.

Weight 9.4 Water Loss 16.5 cc. Drill Pipe Length 3988 I. D. 3.8 in.

Chlorides 28000 P.P.M. Test Tool Length 21 in. Tool Size 5300 in.

Jars: Make NO Serial Number Anchor Length 21 ft. Size 5300 in.

Did Well Flow? NO Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 1/8 in. Tool Joint Size 4 1/2 in.

Blow: Strong blow through out test - gas to surface in 1 minute

After final opening - See flow chart

Recovered 180 ft. of froggy gassy oil

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: High bridge 600 ft. off bottom

Time Set Packer(s) 2:35 A.M. Time Started Off Bottom 5:50 A.M. Maximum Temperature 131°F

Initial Hydrostatic Pressure (A) 2316 P.S.I.

Initial Flow Period Minutes 30 (B) 53 P.S.I. to (C) 21 P.S.I.

Initial Closed In Period Minutes 45 (D) 951 P.S.I.

Final Flow Period Minutes 60 (E) 53 P.S.I. to (F) 31 P.S.I.

Final Closed In Period Minutes 60 (G) 1056 P.S.I.

Final Hydrostatic Pressure (H) 2105 P.S.I.

COMPANY TERMS

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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: [Signature] Signature of Customer or his authorized representative

Western Representative: [Signature] Thank you

FIELD INVOICE

Open Hole Test \$ 460.00
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Extra Charts \$

TOTAL \$ 460.00



GAS FLOW REPORT

N^o 2014

Date 6-16-79 Ticket 1704 Company Bowers Dullin Co 325
 Well Name and No. _____ Dst No. 3 Interval Tested 4254 - 41275
 County Barber State Kansas Sec. _____ Twp. _____ Rg. _____

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
PRE FLOW					
<u>2:25 AM</u>					<u>Tool open</u>
<u>2:05</u>					<u>close Tool.</u>

SECOND FLOW					
<u>3:50 AM</u>					<u>Tool open</u>
<u>51</u>	<u>10mm</u>	<u>1/2"</u>			<u>gas to shut one minute.</u>
<u>20</u>	<u>3"</u>			<u>15,400 V mcf, PDI</u>	
<u>30</u>	<u>4"</u>			<u>14,100</u>	
<u>40</u>	<u>4"</u>			<u>12,500</u>	
<u>50</u>	<u>4"</u>			<u>12,500</u>	
<u>60</u>	<u>4"</u>			<u>12,500</u>	

GAS BOTTLE

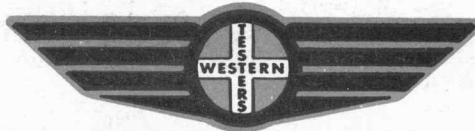
Serial No. _____ Date Bottle Filled _____ Date to be Invoiced _____

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME _____

Authorized by _____



Home Office: Wichita, Kansas 67201

P. O. Box 1599

(316) 838-0601

Company Bowers Drilling Company, Inc. Lease & Well No. Packard #2
Elevation 1472 Kelly Bushing Formation Mississippi Effective Pay -- Ft. Ticket No. 1704
Date 6/16/79 Sec. 12 Twp. 32S Range 12W County Barber State Kansas
Test Approved by Robert E. McCann Western Representative Rod Tritt
Formation Test No. 3 Interval Tested from 4254 ft. to 4275 ft. Total Depth 4275 ft.
Packer Depth 4249 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 4254 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set --
Top Recorder Depth (Inside) 4257 ft. Recorder Number 2604 Cap. 4150
Bottom Recorder Depth (Outside) 4260 ft. Recorder Number 2606 Cap. 4150
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Gabbert-Jones Inc. Rig #12 Drill Collar Length 446 I. D. 2 1/4 in.
Mud Type premix-starch Viscosity 39 Weight Pipe Length - I. D. - in.
Weight 9.4 Water Loss 16.5 cc. Drill Pipe Length 3988 I. D. 3.8 in.
Chlorides 28,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.
Jars: Make No Serial Number - Anchor Length 21 ft. Size 5 1/2 OD in.
Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong blow throughout test, Gas to surface in one minute after final opening. See attached sheet for gas measurements.

Recovered 180 ft. of froggy gassy oil

Recovered - ft. of -

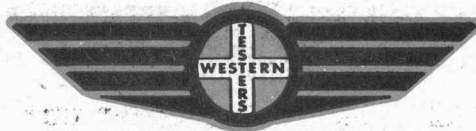
Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks: Hit bridge 600 feet off bottom.

Time Set Packer(s) 2:35 ~~P.M.~~ A.M. Time Started Off Bottom 5:50 ~~P.M.~~ A.M. Maximum Temperature 131
Initial Hydrostatic Pressure (A) 2295 P.S.I.
Initial Flow Period Minutes 30 (B) 67 P.S.I. to (C) 17 P.S.I.
Initial Closed In Period Minutes 45 (D) 962 P.S.I.
Final Flow Period Minutes 60 (E) 72 P.S.I. to (F) 27 P.S.I.
Final Closed In Period Minutes 72 (G) 1065 P.S.I.
Final Hydrostatic Pressure (H) 2165 P.S.I.



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

GAS FLOW REPORT

Date 6/16/79 Ticket 1704 Company Bowers Drilling Company, Inc.
Well Name and No. Packard #2 Dst No. 3 Interval Tested 4254'-4275'
County Barber State Kansas Sec. 12 Twp. 32S Rg. 12W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
PRE FLOW						
2:35AM						TOOL OPEN
3:05						CLOSED TOOL
3:50AM						TOOL OPEN
:51						GAS TO SURFACE ONE MINUTE
	10 min.	6" of water	1/2" orifice			15,400 CFPD
	20 min.	5" of water	1/2" orifice			14,100 CFPD
	30 min.	4" of water	1/2" orifice			12,500 CFPD
	40 min.	4" of water	1/2" orifice			12,500 CFPD
	50 min.	4" of water	1/2" orifice			12,500 CFPD
	60 min.	4" of water	1/2" orifice			12,500 CFPD

GAS BOTTLE

Serial No. -- Date Bottle Filled -- Date to be Invoiced 6/16/79

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Bowers Drilling Company, Inc.

Authorized by Robert E. McCann

WESTERN TESTING CO., INC.

Pressure Data

Date 6/16/79 Test Ticket No. 1704
 Recorder No. 2604 Capacity 4150 Location 4257 Ft.
 Clock No. -- Elevation 1472 Kelly Bushing Well Temperature 131 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2295	P.S.I.	2:35A	M
B First Initial Flow Pressure	67	P.S.I.	30	Mins.
C First Final Flow Pressure	17	P.S.I.	45	Mins.
D Initial Closed-in Pressure	962	P.S.I.	60	Mins.
E Second Initial Flow Pressure	72	P.S.I.	60	Mins.
F Second Final Flow Pressure	27	P.S.I.		
G Final Closed-in Pressure	1065	P.S.I.		
H Final Hydrostatic Mud	2165	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>24</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>67</u>	<u>0</u>	<u>17</u>	<u>0</u>	<u>72</u>	<u>0</u>	<u>27</u>
P 2 <u>5</u>	<u>37</u>	<u>3</u>	<u>30</u>	<u>5</u>	<u>38</u>	<u>3</u>	<u>51</u>
P 3 <u>10</u>	<u>29</u>	<u>6</u>	<u>49</u>	<u>10</u>	<u>30</u>	<u>6</u>	<u>111</u>
P 4 <u>15</u>	<u>23</u>	<u>9</u>	<u>95</u>	<u>15</u>	<u>26</u>	<u>9</u>	<u>192</u>
P 5 <u>20</u>	<u>21</u>	<u>12</u>	<u>185</u>	<u>20</u>	<u>24</u>	<u>12</u>	<u>265</u>
P 6 <u>25</u>	<u>19</u>	<u>15</u>	<u>294</u>	<u>25</u>	<u>22</u>	<u>15</u>	<u>329</u>
P 7 <u>30</u>	<u>17</u>	<u>18</u>	<u>385</u>	<u>30</u>	<u>22</u>	<u>18</u>	<u>382</u>
P 8		<u>21</u>	<u>472</u>	<u>35</u>	<u>21</u>	<u>21</u>	<u>444</u>
P 9		<u>24</u>	<u>559</u>	<u>40</u>	<u>21</u>	<u>24</u>	<u>500</u>
P10		<u>27</u>	<u>634</u>	<u>45</u>	<u>22</u>	<u>27</u>	<u>550</u>
P11		<u>30</u>	<u>707</u>	<u>50</u>	<u>23</u>	<u>30</u>	<u>600</u>
P12		<u>33</u>	<u>774</u>	<u>55</u>	<u>25</u>	<u>33</u>	<u>644</u>
P13		<u>36</u>	<u>830</u>	<u>60</u>	<u>27</u>	<u>36</u>	<u>690</u>
P14		<u>39</u>	<u>889</u>			<u>39</u>	<u>734</u>
P15		<u>42</u>	<u>933</u>			<u>42</u>	<u>780</u>
P16		<u>45</u>	<u>962</u>			<u>45</u>	<u>818</u>
P17						<u>48</u>	<u>855</u>
P18						<u>51</u>	<u>887</u>
P19						<u>54</u>	<u>917</u>
P20						<u>57</u>	<u>948</u>
						<u>60</u>	<u>975</u>

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continued next page

WESTERN TESTING CO., INC.

Pressure Data

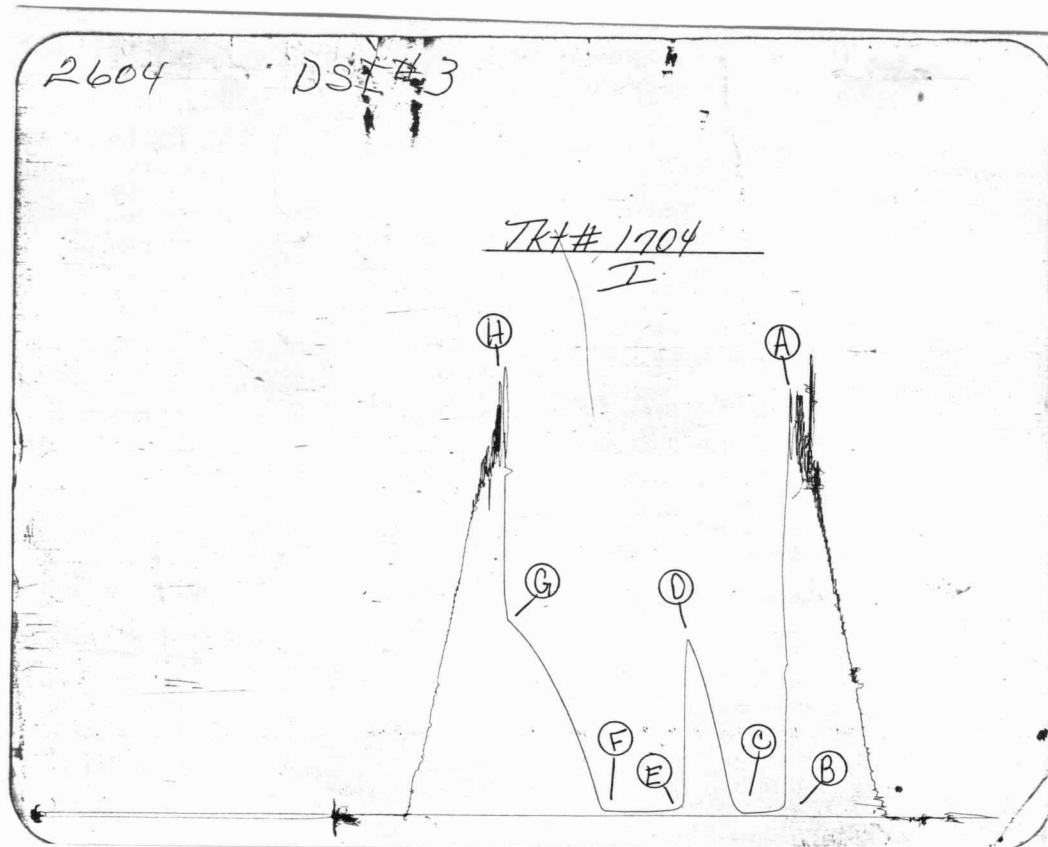
Date 6/16/79 Test Ticket No. 1704

Recorder No. 2604 Capacity 4150 Location 4257 Elevation 1472 Kelly Bushing Well Temperature 131

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	2295 P.S.I.	2:35A	
B First Initial Flow Pressure	67 P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	17 P.S.I.	45 Mins.	45 Mins.
D Initial Closed-in Pressure	962 P.S.I.	60 Mins.	60 Mins.
E Second Initial Flow Pressure	72 P.S.I.	60 Mins.	72 Mins.
F Second Final Flow Pressure	27 P.S.I.		
G Final Closed-in Pressure	1065 P.S.I.		
H Final Hydrostatic Mud	2165 P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>24</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						63	998
P 2						66	1023
P 3						69	1048
P 4						72	1065
P 5							
P 6							
P 7							
P 8							
P 9							
P10							
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2316	2295	PSI
(B) First Initial Flow Pressure	53	67	PSI
(C) First Final Flow Pressure	21	17	PSI
(D) Initial Closed-in Pressure	951	962	PSI
(E) Second Initial Flow Pressure	53	72	PSI
(F) Second Final Flow Pressure	31	27	PSI
(G) Final Closed-in Pressure	1056	1065	PSI
(H) Final Hydrostatic Mud	2105	2165	PSI