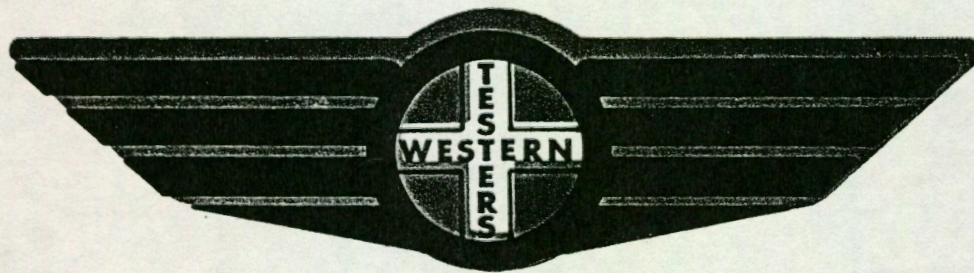


FORMATION TEST REPORT



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Gladstone 3-7903

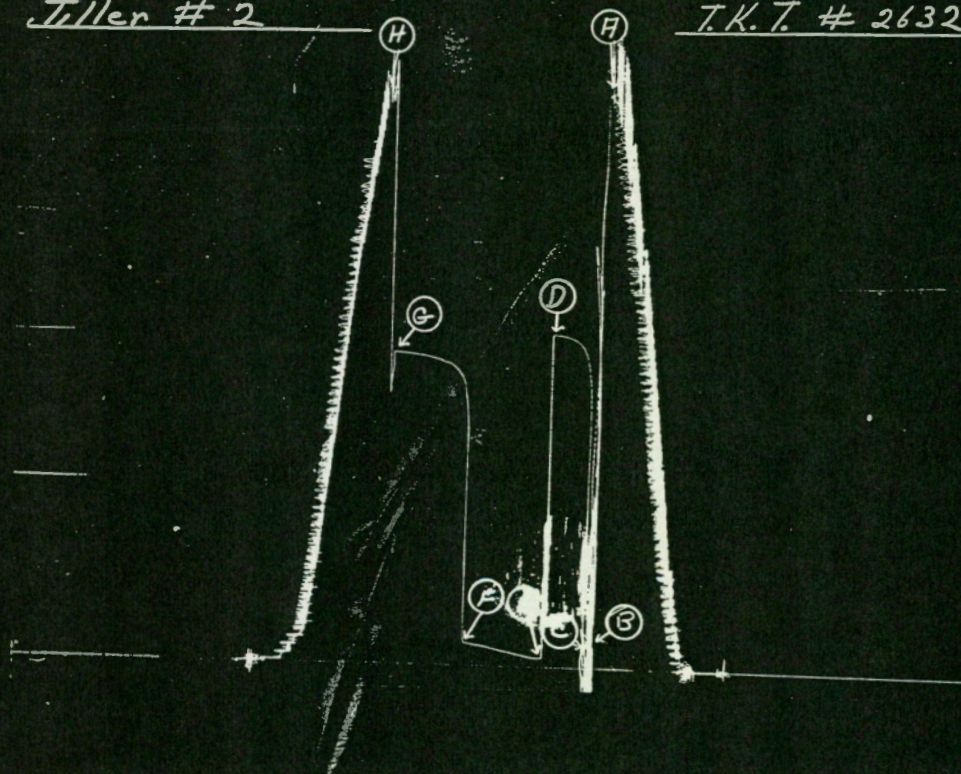
Company Walters Drilling Company Lease and Well No. Tilley #2 Sec. 8 Twp. 17 Rge. 24 Test No. 1 Date 10-18

Walters Drilling Co.

Tiller # 2

Test # 1

T.K.T. # 2632



This is an actual photograph of recorder chart.

POINT

PRESSURE

(A) Initial Hydrostatic Mud.....	2410	PSI
(B) First Initial Flow Pressure	-	PSI
(C) First Final Flow Pressure	-	PSI
(D) Initial Closed-in Pressure	1344	PSI
(E) Second Initial Flow Pressure	38	PSI
(F) Second Final Flow Pressure	93	PSI
(G) Final Closed-in Pressure	1269	PSI
(H) Final Hydrostatic Mud	2362	PSI



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Elev. 2489' D.F.

Company Walters Drilling Company

Lease & Well No. Tilley #2

Tit. #2632

Date 10-18-62 Sec. 8 Twp. 17 Range 24 County Ness State Kansas

Test Approved by Don W. Beauchamp Western Representative W. M. Nething

Formation Test No. 1 O.K. ☒ Misrun ☐ Interval Tested From 4345' to 4352' Total Depth 4352'
Size Main Hole 7 7/8" Rat Hole 6 1/8" Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No
Packer Depth 4345 Ft. Size 5 1/2" Packer Depth ☐ Ft. Size ☐
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 7 Ft. Size 4 1/2"

RECORDERS Depth 4338 Ft. Clock No. 6899 Depth 4352 Ft. Clock No. 22
Top Make Amerada Cap. 3150# No. 1564 Inside Outside Bottom Make Western Cap. 4000# No. 17 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 3:23 P M
Tool Open I.F.P. From 3:27P M. to 3:32P M. ☐ Hr. 5 Min. From (B) ☐ P.S.I. To (C) ☐ P.S.I.
Tool Closed I.C.I.P. From 3:32P M. to 4:02P M. ☐ Hr. 30 Min. (D) 1344 P.S.I.
Tool Open F.F.P. From 4:02P M. to 5:07P M. 1 Hr. ☐ Min From (E) 36 P.S.I. To (F) 93 P.S.I.
Tool Closed F.C.I.P. From 5:02P M. to 6:02P M. 1 Hr. ☐ Min. (G) 1269 P.S.I.
Initial Hydrostatic Pressure (A) 2410 P.S.I. Final Hydrostatic Pressure (H) 2362 P.S.I.

SURFACE Size Choke 1/2 In. Max. Press. P.S.I. Time Description of Flow
INFORMATION ☐ M. ☐ M. ☐ M.

BLOW Good blow Bottom Choke Size 3/4 in.

Did Well Flow ☒ Yes ☐ No Recovery Total Ft. 210 Oil 1460' Gas ☐ Water ☐

210' Muddy to clean oil Mud

Reversed Out ☐ Yes ☒ No Mud Type Starch Viscosity 43 Weight 10.2 Maximum Temp. 118 °F

EXTRA EQUIPMENT: Dual Packers ☐ No Safety Joint ☐ No Jars: Size 10 Make ☐ Ser. No. ☐

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

Remarks

WESTERN TESTING CO., INC.

Pressure Data

Date 10-18-62 Test Ticket No. 2632
 Recorder No. 1564 Capacity 3150# Location 4338
 Clock No. 6899 Elevation 2489' D.F. Well Temperature 118

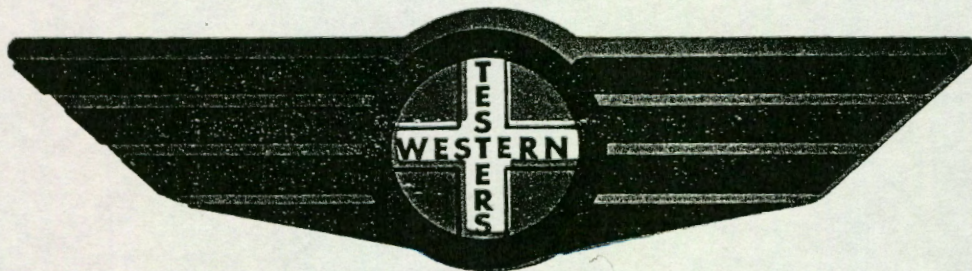
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2410</u> P.S.I.	Opened Tool	<u>3:23</u> M	<u>3:23</u> H
B First Initial Flow Pressure	<u>-</u> P.S.I.	First Flow Pressure	<u>-</u> Mins.	<u>-</u>
C First Final Flow Pressure	<u>-</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u>
D Initial Closed-in Pressure	<u>1344</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>57</u>
E Second Initial Flow Pressure	<u>38</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u>
F Second Final Flow Pressure	<u>93</u> P.S.I.			
G Final Closed-in Pressure	<u>1269</u> P.S.I.			
H Final Hydrostatic Mud	<u>2362</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Press.	Initial Shut-In	Second Flow Pressure	Final Shut-In
Breakdown: <u>-</u> Inc.	Breakdown: <u>10</u> Inc.	Breakdown: <u>5</u> Inc.	Breakdown: <u>20</u> Inc.
of <u>-</u> mins. and a	of <u>3</u> mins. and a	of <u>10</u> mins. and a	of <u>3</u> mins. and a
final inc. of <u>-</u> Min.	final inc. of <u>-</u> Min.	final inc. of <u>7</u> Min.	final inc. of <u>-</u> Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1		0	40	0	38	0	9
P 2		3	1065	10	42	3	50
P 3		6	1221	20	52	6	106
P 4		9	1284	30	62	9	114
P 5		12	1308	40	77	12	118
P 6		15	1318	50	85	15	119
P 7		18	1327	57	93	18	121
P 8		21	1334			21	121
P 9		24	1338			24	121
P 10		27	1341			27	121
P 11		30	1344			30	121
P 12						33	121
P 13						36	121
P 14						39	121
P 15						42	121
P 16						45	121
P 17						48	121
P 18						51	121
P 19						54	121
P 20						57	121
						60	121

FORMATION TEST REPORT



HOME OFFICE
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GREAT BEND, KANSAS
Gladstone 3-7903

Walters Drilling Company Lease and Well No. Talley #2 Sec. 8 Twp. 17 Rge. 24 Test No. 2 Date 10



Home Office: Great Bend, Kansas

P. O. Box 793

Gladstone 3-7903

Elev. 2489' D.F.

Company Walters Drilling Company Lease & Well No. Tilley #2 Tit. #2539

Date 10-21-62 Sec. 8 Twp. 17 Range 24 County Ness State Kansas

Test Approved by Alfred James III Western Representative Ernest Luckert

Formation Test No. 2 O.K. ☒ Misrun ☐ Interval Tested From 4448' to 4461' Total Depth 4461'
Size Main Hole 7 7/8" Rat Hole 6 1/8" Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No ☐
Packer Depth 4448' Ft. Size 5 1/2" O.D. Packer Depth - Ft. Size -

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" P.H. Anchor Length 13 Ft. Size 4 1/2" O.D.

RECORDERS	Depth <u>4453</u> Ft.	Clock No. <u>6866</u>	Depth <u>4456</u> Ft.	Clock No. <u>101</u>	
Top Make <u>Acrodata</u>	Cap. <u>3150#</u>	No. <u>1562</u>	Bottom Make <u>Western</u>	Cap. <u>4000#</u>	No. <u>30</u>
Below Straddle: Depth <u>-</u>	Clock No. <u>-</u>	Inside <u>Outside</u>	Depth <u>-</u>	Clock No. <u>-</u>	Inside <u>Outside</u>
Top Make <u>-</u>	Cap. <u>-</u>	No. <u>-</u>	Bottom Make <u>-</u>	Cap. <u>-</u>	No. <u>-</u>

Time Set Packer 10:10 P M
Tool Open I.F.P. From 10:10P M. to 10:15P M. - Hr. 5 Min. From (B) 25 P.S.I. To (C) 34 P.S.I.
Tool Closed I.C.I.P. From 10:15P M. to 10:45P M. - Hr. 30 Min. (D) 1298 P.S.I.
Tool Open F.F.P. From 10:45P M. to 12:45A M. 2 Hr. - Min From (E) 51 P.S.I. To (F) 348 P.S.I.
Tool Closed F.C.I.P. From 12:45A M. to 1:45A M. 1 Hr. - Min. (G) 1276 P.S.I.
Initial Hydrostatic Pressure (A) 2443 P.S.I. Final Hydrostatic Pressure (H) 2351 P.S.I.

SURFACE	Size Choke <u>1/2</u> In.	Max. Press. P.S.I.	Time	Description of Flow
INFORMATION	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>

BLOW Fair - Steady throughout Bottom Choke Size 3/4 Ir
Did Well Flow ☒ Yes ☐ No Recovery Total Ft. 925 Oil - Gas - Water -

925' Clean to muddy oil Muc
Reversed Out ☐ Yes ☐ No Mud Type Starch Viscosity 46 Weight 10.3 Maximum Temp. 126 °
EXTRA EQUIPMENT: Dual Packers No Safety Joint No Jars: Size No Make - Ser. No. -
Type Circ. Sub. Plug Did Tool Plug? No Where? - Did Packer Hold? Yes

Remarks
720' Flexweight
2654' D.P. - 3.7" I.D.
27' Testing Tools
Oil 36 Gravity at 66°

WESTERN TESTING CO., INC. Pressure Data

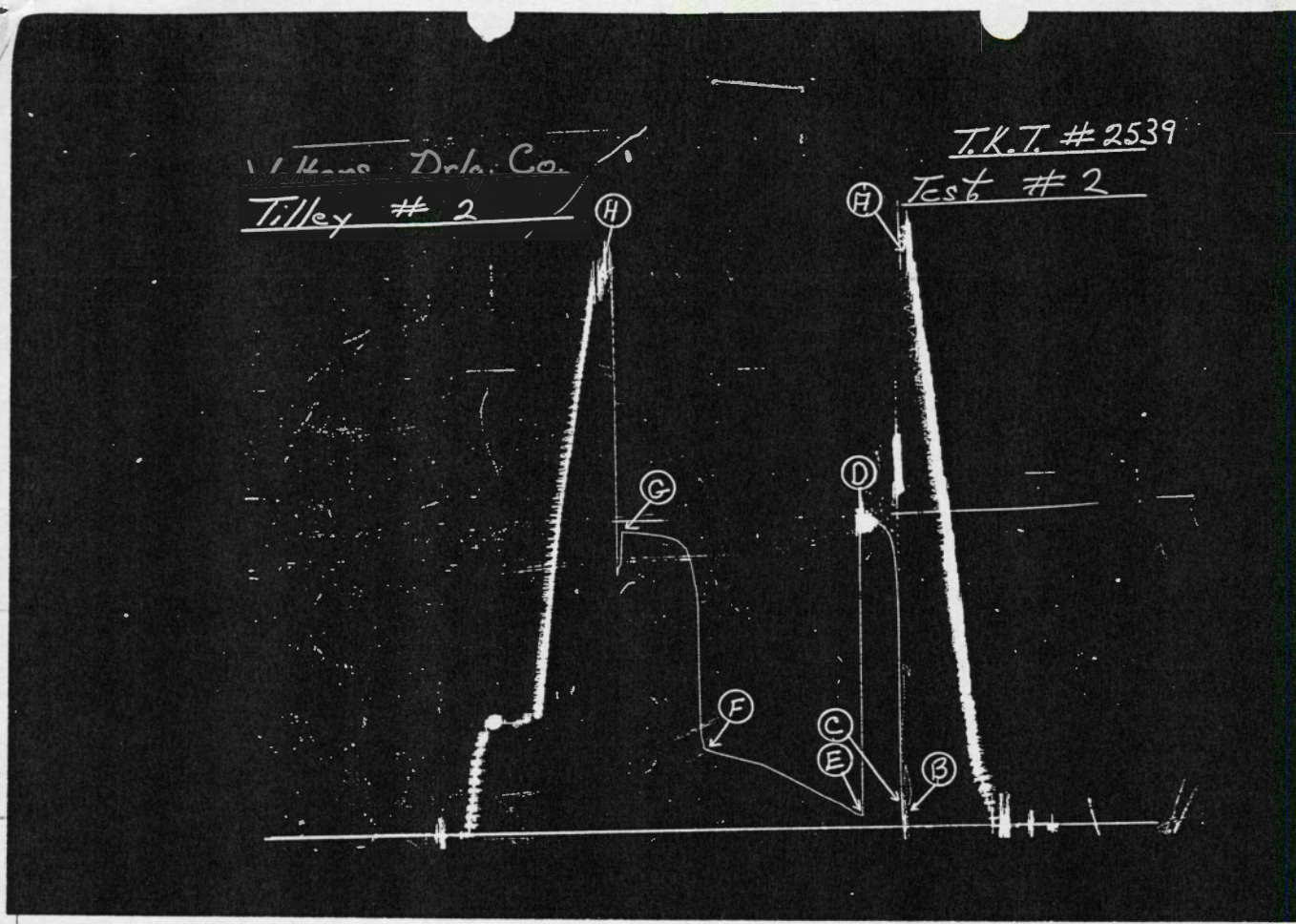
Date 10-21-62 Test Ticket No. 2539
 Recorder No. 1562 Capacity 3150 Location 4453 Ft.
 Clock No. 6666 Elevation 2439' D.F. Well Temperature 126 °F

Point	Pressure		Time Given	Time Computed
Initial Hydrostatic Mud	<u>2443</u> P.S.I.	Opened Tool	<u>10:10 P</u> M	<u>10:10 PM</u>
First Initial Flow Pressure	<u>25</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
First Final Flow Pressure	<u>34</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
Initial Closed-in Pressure	<u>1298</u> P.S.I.	Second Flow Pressure	<u>120</u> Mins.	<u>120</u> Mins.
Second Initial Flow Pressure	<u>51</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>61</u> Mins.
Second Final Flow Pressure	<u>348</u> P.S.I.			
Final Closed-in Pressure	<u>1276</u> P.S.I.			
Final Hydrostatic Mud	<u>2351</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Press. Breakdown: <u>1</u> Inc. of <u>5</u> mins. and a final inc. of <u>-</u> Min.	Initial Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>-</u> Min.	Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>10</u> mins. and a final inc. of <u>-</u> Min.	Final Shut-In Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>1</u> Min.
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Point	Press.	Point	Press.	Point	Press.	Point	Press.
0	25	0	34	0	51	0	348
5	34	3	996	10	78	3	138
		6	1176	20	113	6	989
		9	1237	30	139	9	1093
		12	1261	40	166	12	1169
		15	1277	50	204	15	1207
		18	1288	60	232	18	1224
		21	1291	70	259	21	1232
		24	1293	80	281	24	1244
		27	1296	90	297	27	1248
		30	1298	100	311	30	1253
				110	327	33	1256
				120	348	36	1259
						39	1263
						42	1266
						45	1267
						48	1269
						51	1270
						54	1274
						57	1275
						60	1276
						61	1276



This is an actual photograph of recorder chart.

POINT	PRESSURE	
(A) Initial Hydrostatic Mud.....	2443	PSI
(B) First Initial Flow Pressure	25	PSI
(C) First Final Flow Pressure	34	PSI
(D) Initial Closed-in Pressure	1298	PSI
(E) Second Initial Flow Pressure	51	PSI
(F) Second Final Flow Pressure	348	PSI
(G) Final Closed-in Pressure	1276	PSI
(H) Final Hydrostatic Mud	2351	PSI