



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

Company <u>Graves Drilling Company, Inc.</u>		Lease & Well No. <u>Traffas #1</u>	
Elevation <u>--</u>	Formation <u>--</u>	Effective Pay <u>--</u>	Ft. Ticket No. <u>2143</u>
Date <u>12/10/78</u>	Sec. <u>32</u> Twp. <u>32S</u> Range <u>10W</u>	County <u>Barber</u>	State <u>Kansas</u>
Test Approved by <u>Frederick W. Stump</u>		Western Representative <u>Ron Emmons</u>	
Formation Test No. <u>1</u>	Interval Tested from <u>2780'</u>	ft. to <u>2833'</u>	ft. Total Depth <u>2833'</u> ft.
Packer Depth <u>2775</u> ft.	Size <u>6 3/4</u> in.	Packer Depth <u>--</u> ft.	Size <u>--</u> in.
Packer Depth <u>2780</u> ft.	Size <u>6 3/4</u> in.	Packer Depth <u>--</u> ft.	Size <u>--</u> in.
Depth of Selective Zone Set <u>--</u>			
Top Recorder Depth (Inside) <u>2818</u> ft.	Recorder Number <u>3660</u>	Cap. <u>4000</u>	
Bottom Recorder Depth (Outside) <u>2821</u> ft.	Recorder Number <u>1560</u>	Cap. <u>6000</u>	
Below Straddle Recorder Depth <u>-</u> ft.	Recorder Number <u>-</u>	Cap. <u>-</u>	
Drilling Contractor <u>Graves Drilling Rig #1</u>	Drill Collar Length <u>116</u>	I. D. <u>2 1/4</u> in.	
Mud Type <u>premix</u> Viscosity <u>36</u>	Weight Pipe Length <u>121</u>	I. D. <u>2.7</u> in.	
Weight <u>9.9</u> Water Loss <u>N.C.</u> cc.	Drill Pipe Length <u>2520</u>	I. D. <u>3.8</u> in.	
Chlorides <u>41,500</u> P.P.M.	Test Tool Length <u>23'</u> in.	Tool Size <u>5 1/2 OD</u> in.	
Jars: Make <u>--</u> Serial Number <u>--</u>	Anchor Length <u>53</u> ft.	Size <u>5 1/2 OD</u> in.	
Did Well Flow? <u>No</u> Reversed Out <u>No</u>	Surface Choke Size <u>3/4</u> in.	Bottom Choke Size <u>3/4</u> in.	
	Main Hole Size <u>7 7/8</u> in.	Tool Joint Size <u>4 1/2 FH</u> in.	

Blow: Weak to strong first period; weak to strong second period.

Recovered 154 ft. of watery mud
Recovered 124 ft. of gas cut muddy water
Recovered 124 ft. of heavy gas cut muddy water
Recovered 244 ft. of salt water
Recovered ft. of

Remarks: Slid tool four foot to bottom on 53 feet of anchor

Time Set Packer(s) <u>4:32</u>	A.M. P.M.	Time Started Off Bottom <u>6:47</u>	A.M. P.M.	Maximum Temperature <u>105</u>
Initial Hydrostatic Pressure	(A)	<u>1466</u>	P.S.I.	
Initial Flow Period	Minutes <u>15</u>	(B)	<u>95</u> P.S.I. to (C)	<u>154</u> P.S.I.
Initial Closed In Period	Minutes <u>30</u>	(D)	<u>1187</u>	P.S.I.
Final Flow Period	Minutes <u>60</u>	(E)	<u>216</u> P.S.I. to (F)	<u>380</u> P.S.I.
Final Closed In Period	Minutes <u>30</u>	(G)	<u>1168</u>	P.S.I.
Final Hydrostatic Pressure	(H)	<u>1437</u>	P.S.I.	

WESTERN TESTING CO., INC.

Pressure Data

Date 12/10/78 Test Ticket No. 2143

Recorder No. 3660 Capacity 4000 Location 2833 Ft.

Clock No. -- Elevation -- Well Temperature 105 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	1466 P.S.I.	4:32P	M
B First Initial Flow Pressure	95 P.S.I.	15 Mins.	15 Mins.
C First Final Flow Pressure	154 P.S.I.	30 Mins.	30 Mins.
D Initial Closed-in Pressure	1187 P.S.I.	60 Mins.	55 Mins.
E Second Initial Flow Pressure	216 P.S.I.	30 Mins.	30 Mins.
F Second Final Flow Pressure	380 P.S.I.		
G Final Closed-in Pressure	1168 P.S.I.		
H Final Hydrostatic Mud	1437 P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>3</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>11</u> Inc.		Breakdown: <u>10</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>95</u>	<u>0</u>	<u>154</u>	<u>0</u>	<u>216</u>	<u>0</u>	<u>380</u>
P 2 <u>5</u>	<u>103</u>	<u>3</u>	<u>818</u>	<u>5</u>	<u>200</u>	<u>3</u>	<u>843</u>
P 3 <u>10</u>	<u>136</u>	<u>6</u>	<u>1072</u>	<u>10</u>	<u>213</u>	<u>6</u>	<u>1078</u>
P 4 <u>15</u>	<u>154</u>	<u>9</u>	<u>1116</u>	<u>15</u>	<u>231</u>	<u>9</u>	<u>1106</u>
P 5		<u>12</u>	<u>1139</u>	<u>20</u>	<u>255</u>	<u>12</u>	<u>1125</u>
P 6		<u>15</u>	<u>1153</u>	<u>25</u>	<u>273</u>	<u>15</u>	<u>1139</u>
P 7		<u>18</u>	<u>1165</u>	<u>30</u>	<u>294</u>	<u>18</u>	<u>1147</u>
P 8		<u>21</u>	<u>1171</u>	<u>35</u>	<u>314</u>	<u>21</u>	<u>1154</u>
P 9		<u>24</u>	<u>1179</u>	<u>40</u>	<u>329</u>	<u>24</u>	<u>1160</u>
P10		<u>27</u>	<u>1184</u>	<u>45</u>	<u>348</u>	<u>27</u>	<u>1164</u>
P11		<u>30</u>	<u>1187</u>	<u>50</u>	<u>365</u>	<u>30</u>	<u>1168</u>
P12				<u>55</u>	<u>380</u>		
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



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Company Graves Drilling Company, Inc. Lease & Well No. Traffas #1
Elevation -- Formation -- Effective Pay -- Ft. Ticket No. 1503
Date 12/16/78 Sec 32 Twp 32S Range 10W County Barber State Kansas
Test Approved by Frederick W. Stump Western Representative Jim Wondra
Formation Test No. 2 Interval Tested from 4492 ft. to 4506 ft. Total Depth 4506 ft.
Packer Depth 4487 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 4492 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set --
Top Recorder Depth (Inside) 4496 ft. Recorder Number 2607 Cap. 4150
Bottom Recorder Depth (Outside) 4499 ft. Recorder Number 3351 Cap. 4000
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Graves Drilling Rig #1 Drill Collar Length 117 I. D. 2 1/4 in.
Mud Type drispac Viscosity 39 Weight Pipe Length - I. D. - in.
Weight 9.4 Water Loss 14.4 cc. Drill Pipe Length 4354 I. D. 3.8 in.
Chlorides 12,000 P.P.M. Test Tool Length 21' in. 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 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: Weak increased to strong on first flow period. Strong blow throughout second flow period.

Recovered 40 ft. of drilling mud
Recovered - ft. of -
Recovered - ft. of -
Recovered - ft. of -
Recovered - ft. of -
Remarks: -

Time Set Packer(s) 11:35 ~~A.M.~~ P.M. Time Started Off Bottom 3:55 ~~A.M.~~ P.M. Maximum Temperature 114
Initial Hydrostatic Pressure - (A) 2253 P.S.I.
Initial Flow Period 15 Minutes (B) 61 P.S.I. to (C) 44 P.S.I.
Initial Closed In Period 45 Minutes (D) 1061 P.S.I.
Final Flow Period 90 Minutes (E) 59 P.S.I. to (F) 44 P.S.I.
Final Closed In Period 45 Minutes (G) 1102 P.S.I.
Final Hydrostatic Pressure - (H) 2221 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 12/16/78 Test Ticket No. 1503
 Recorder No. 2607 Capacity 4150 Location 4496 Ft.
 Clock No. -- Elevation -- Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2253	P.S.I.	11:35P	M
B First Initial Flow Pressure	61	P.S.I.	15	Mins. 15 Mins.
C First Final Flow Pressure	44	P.S.I.	45	Mins. 45 Mins.
D Initial Closed-in Pressure	1061	P.S.I.	90	Mins. 90 Mins.
E Second Initial Flow Pressure	59	P.S.I.	45	Mins. 45 Mins.
F Second Final Flow Pressure	44	P.S.I.		
G Final Closed-in Pressure	1102	P.S.I.		
H Final Hydrostatic Mud	2221	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>3</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>18</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>61</u>	<u>0</u>	<u>44</u>	<u>0</u>	<u>59</u>	<u>0</u>	<u>44</u>
P 2 <u>5</u>	<u>46</u>	<u>3</u>	<u>91</u>	<u>5</u>	<u>49</u>	<u>3</u>	<u>112</u>
P 3 <u>10</u>	<u>44</u>	<u>6</u>	<u>163</u>	<u>10</u>	<u>46</u>	<u>6</u>	<u>227</u>
P 4 <u>15</u>	<u>44</u>	<u>9</u>	<u>243</u>	<u>15</u>	<u>44</u>	<u>9</u>	<u>335</u>
P 5		<u>12</u>	<u>330</u>	<u>20</u>	<u>44</u>	<u>12</u>	<u>445</u>
P 6		<u>15</u>	<u>400</u>	<u>25</u>	<u>44</u>	<u>15</u>	<u>527</u>
P 7		<u>18</u>	<u>464</u>	<u>30</u>	<u>44</u>	<u>18</u>	<u>616</u>
P 8		<u>21</u>	<u>546</u>	<u>35</u>	<u>44</u>	<u>21</u>	<u>702</u>
P 9		<u>24</u>	<u>625</u>	<u>40</u>	<u>44</u>	<u>24</u>	<u>781</u>
P10		<u>27</u>	<u>704</u>	<u>45</u>	<u>44</u>	<u>27</u>	<u>852</u>
P11		<u>30</u>	<u>770</u>	<u>50</u>	<u>44</u>	<u>30</u>	<u>910</u>
P12		<u>33</u>	<u>833</u>	<u>55</u>	<u>44</u>	<u>33</u>	<u>971</u>
P13		<u>36</u>	<u>900</u>	<u>60</u>	<u>44</u>	<u>36</u>	<u>1015</u>
P14		<u>39</u>	<u>964</u>	<u>65</u>	<u>44</u>	<u>39</u>	<u>1059</u>
P15		<u>42</u>	<u>1010</u>	<u>70</u>	<u>44</u>	<u>42</u>	<u>1076</u>
P16		<u>45</u>	<u>1061</u>	<u>75</u>	<u>44</u>	<u>45</u>	<u>1102</u>
P17				<u>80</u>	<u>44</u>		
P18				<u>85</u>	<u>44</u>		
P19				<u>90</u>	<u>44</u>		
P20				<u>95</u>	<u>44</u>		
				<u>100</u>	<u>44</u>		
				<u>105</u>	<u>44</u>		



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Company Graves Drilling Company, Inc. Lease & Well No. Traffas #1
Elevation -- Formation Mississippi Effective Pay -- Ft. Ticket No. 1504
Date 12/16/78 Sec. 32 Twp. 32S Range 10W County Barber State Kansas
Test Approved by Frederick W. Stump Western Representative Jim Wondra
Formation Test No. 3 Interval Tested from 4503 ft. to 4516 ft. Total Depth 4516 ft.
Packer Depth 4498 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 4503 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set --
Top Recorder Depth (Inside) 4508 ft. Recorder Number 2607 Cap. 4150
Bottom Recorder Depth (Outside) 4511 ft. Recorder Number 3351 Cap. 4000
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Graves Drilling Rig #1 Drill Collar Length 117 I. D. 2 1/4 in.
Mud Type drispac Viscosity 46 Weight Pipe Length - I. D. - in.
Weight 9.4 Water Loss 10.4 cc. Drill Pipe Length 4365 I. D. 3.8 in.
Chlorides 11,500 P.P.M. Test Tool Length 21' in. Tool Size 5 1/2 OD in.
Jars: Make -- Serial Number -- Anchor Length 13' ft. Size 5 1/2 OD in.
Did Well Flow? Yes 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 flow periods. See attached sheet for gas measurements.

Recovered 80 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 1:10 ~~A.M.~~ P.M. Time Started Off Bottom 3:55 ~~A.M.~~ P.M. Maximum Temperature 114
Initial Hydrostatic Pressure 2278 P.S.I.
Initial Flow Period 15 Minutes (B) 70 P.S.I. to (C) 51 P.S.I.
Initial Closed In Period 45 Minutes (D) 1364 P.S.I.
Final Flow Period 60 Minutes (E) 65 P.S.I. to (F) 57 P.S.I.
Final Closed In Period 45 Minutes (G) 1111 P.S.I.
Final Hydrostatic Pressure 2251 P.S.I.



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GAS FLOW REPORT

Date 12/16/78 Ticket 1504 Company Graves Drilling Company, Inc.
Well Name and No. Traffas #1 Dst No. 3 Interval Tested 4503'-4516'
County Barber State Kansas Sec. 32 Twp. 32S Rg. 10W

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
Gas to surface in 13 minutes. PRE FLOW						
TOO SMALL TO MEASURE.						

SECOND FLOW

5 MIN.	46" of water	1/4" orifice			11,400 CFPD
10 min.	46" of water	1/4" orifice			11,400 CFPD
20 min.	46" of water	1/4" orifice			11,400 CFPD
30 min.	46" of water	1/4" orifice			11,400 CFPD
40 min.	18" of water	1/4" orifice			7,120 CFPD
50 min.	Too small to measure				
60 min.	Too small to measure.				

GAS BOTTLE

Serial No. -- Date Bottle Filled -- Date to be Invoiced 12/16/78

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 Graves Drilling Company, Inc.

Authorized by Frederick W. Stump

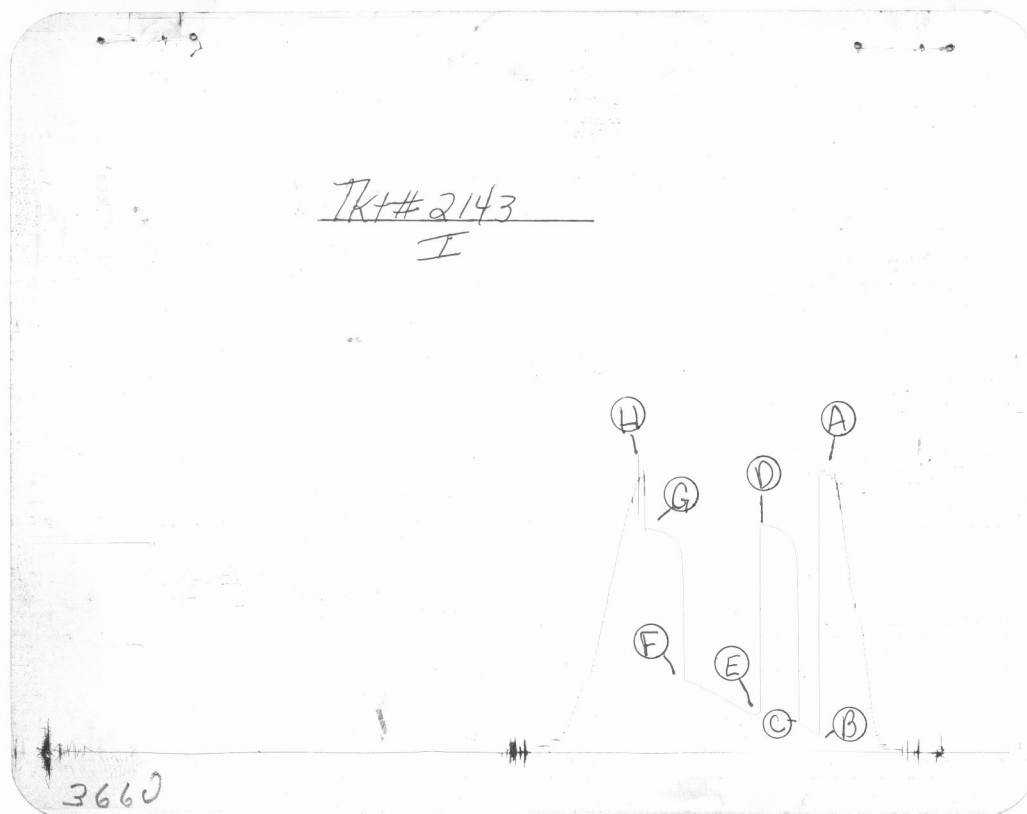
WESTERN TESTING CO., INC.

Pressure Data

Date 12/16/78 Test Ticket No. 1504
 Recorder No. 2607 Capacity 4150 Location 4508 Ft.
 Clock No. -- Elevation -- Well Temperature 114 °F
 Point Pressure Time Given Time Computed
 A Initial Hydrostatic Mud 2278 P.S.I. Open Tool 1:10P M
 B First Initial Flow Pressure 70 P.S.I. First Flow Pressure 15 Mins. 15 Mins.
 C First Final Flow Pressure 51 P.S.I. Initial Closed-in Pressure 45 Mins. 45 Mins.
 D Initial Closed-in Pressure 1364 P.S.I. Second Flow Pressure 60 Mins. 60 Mins.
 E Second Initial Flow Pressure 65 P.S.I. Final Closed-in Pressure 45 Mins. 45 Mins.
 F Second Final Flow Pressure 57 P.S.I.
 G Final Closed-in Pressure 1111 P.S.I.
 H Final Hydrostatic Mud 2251 P.S.I.

PRESSURE BREAKDOWN

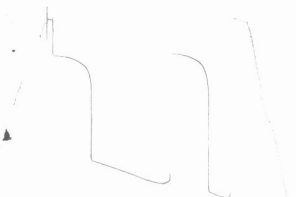
First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>3</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>15</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</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>70</u>	<u>0</u>	<u>51</u>	<u>0</u>	<u>65</u>	<u>0</u>	<u>57</u>
P 2 <u>5</u>	<u>55</u>	<u>3</u>	<u>455</u>	<u>5</u>	<u>57</u>	<u>3</u>	<u>256</u>
P 3 <u>10</u>	<u>53</u>	<u>6</u>	<u>775</u>	<u>10</u>	<u>57</u>	<u>6</u>	<u>449</u>
P 4 <u>15</u>	<u>51</u>	<u>9</u>	<u>973</u>	<u>15</u>	<u>57</u>	<u>9</u>	<u>573</u>
P 5		<u>12</u>	<u>1054</u>	<u>20</u>	<u>57</u>	<u>12</u>	<u>691</u>
P 6		<u>15</u>	<u>1115</u>	<u>25</u>	<u>57</u>	<u>15</u>	<u>768</u>
P 7		<u>18</u>	<u>1165</u>	<u>30</u>	<u>57</u>	<u>18</u>	<u>862</u>
P 8		<u>21</u>	<u>1205</u>	<u>35</u>	<u>57</u>	<u>21</u>	<u>939</u>
P 9		<u>24</u>	<u>1236</u>	<u>40</u>	<u>57</u>	<u>24</u>	<u>987</u>
P10		<u>27</u>	<u>1263</u>	<u>45</u>	<u>57</u>	<u>27</u>	<u>1008</u>
P11		<u>30</u>	<u>1286</u>	<u>50</u>	<u>57</u>	<u>30</u>	<u>1032</u>
P12		<u>33</u>	<u>1305</u>	<u>55</u>	<u>57</u>	<u>33</u>	<u>1048</u>
P13		<u>36</u>	<u>1322</u>	<u>60</u>	<u>57</u>	<u>36</u>	<u>1064</u>
P14		<u>39</u>	<u>1339</u>			<u>39</u>	<u>1073</u>
P15		<u>42</u>	<u>1349</u>			<u>42</u>	<u>1092</u>
P16		<u>45</u>	<u>1364</u>			<u>45</u>	<u>1111</u>
P17							
P18							
P19							
P20							



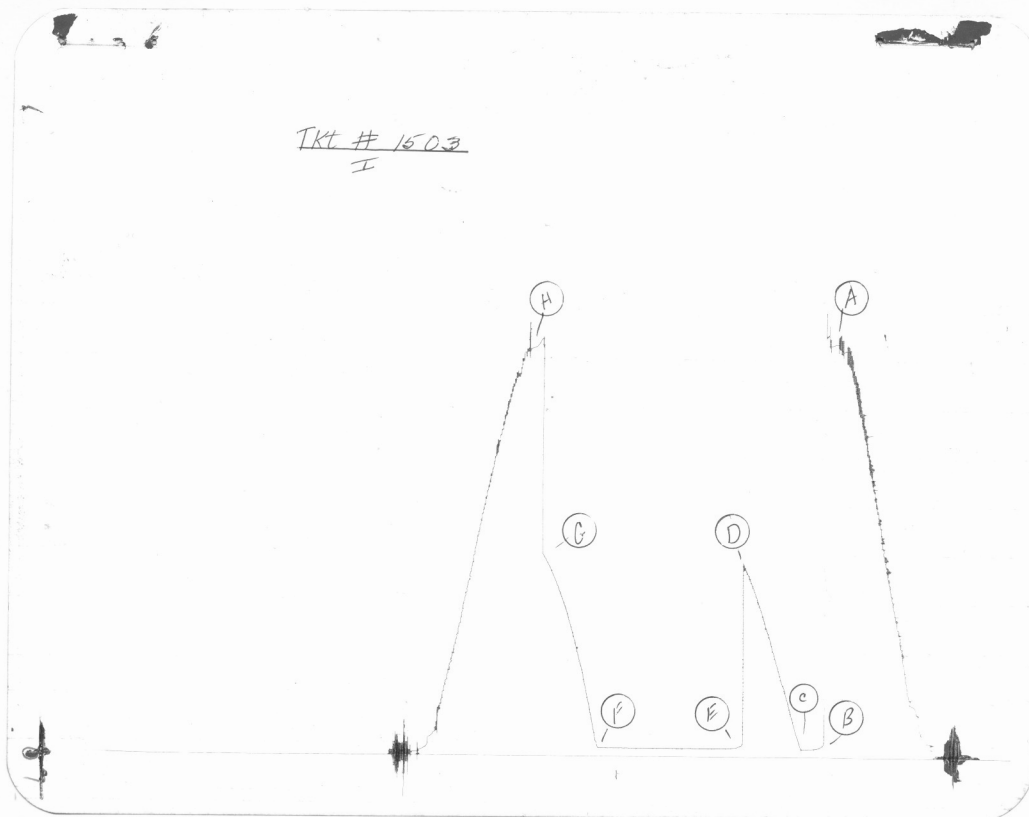
This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1463	1466
(B) First Initial Flow Pressure	101	95
(C) First Final Flow Pressure	151	154
(D) Initial Closed-in Pressure	1192	1187
(E) Second Initial Flow Pressure	202	216
(F) Second Final Flow Pressure	394	380
(G) Final Closed-in Pressure	1172	1168
(H) Final Hydrostatic Mud	1453	1437

TK1#2143
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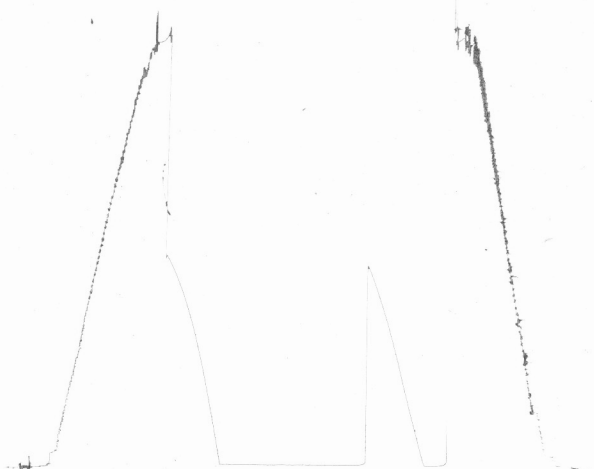
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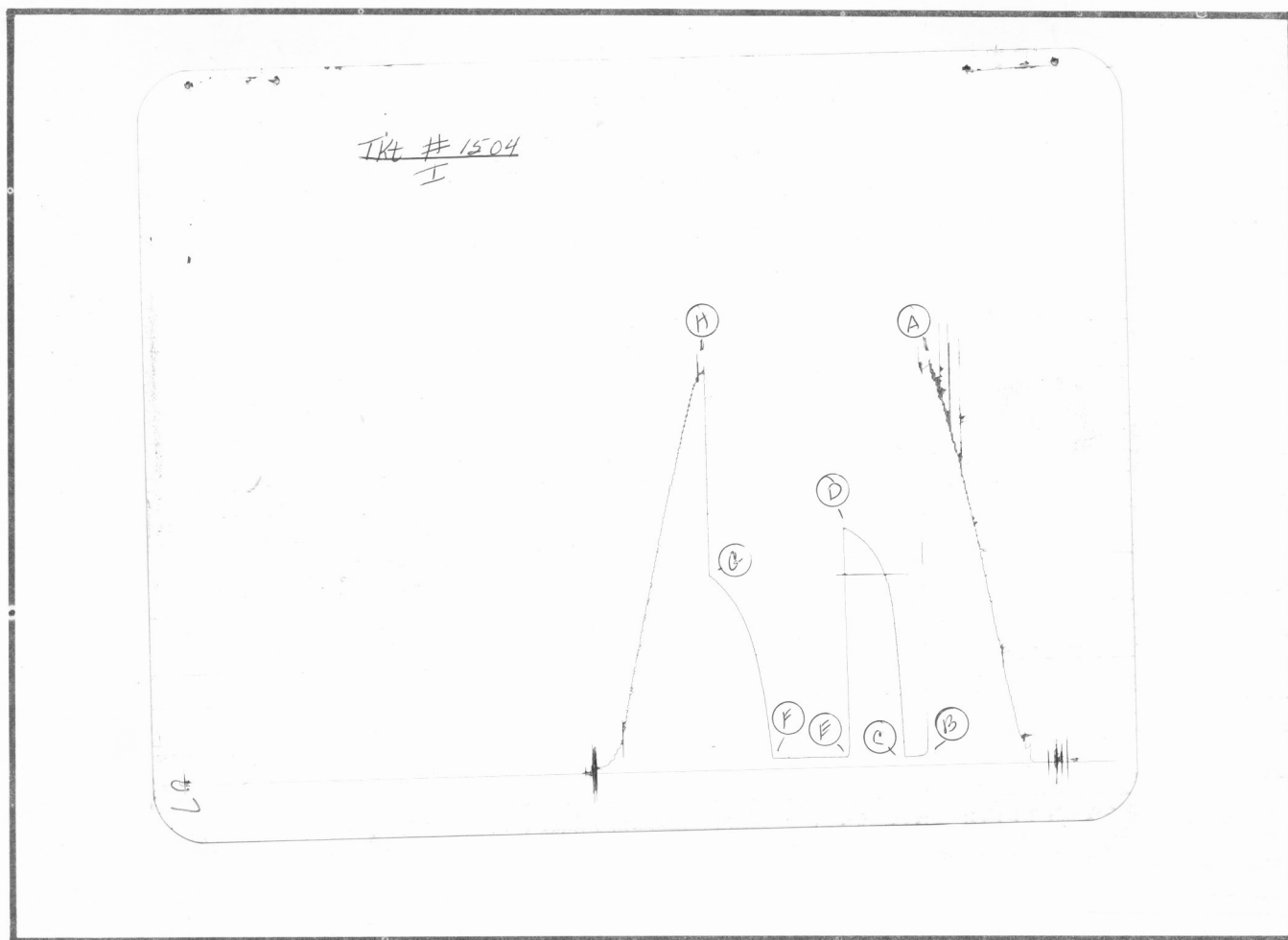
This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2246	2253	PSI
(B) First Initial Flow Pressure	63	61	PSI
(C) First Final Flow Pressure	42	44	PSI
(D) Initial Closed-in Pressure	1050	1061	PSI
(E) Second Initial Flow Pressure	63	59	PSI
(F) Second Final Flow Pressure	42	44	PSI
(G) Final Closed-in Pressure	1102	1102	PSI
(H) Final Hydrostatic Mud	2225	2221	PSI

TKT # 1503-
0



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This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2257	2278	PSI
(B) First Initial Flow Pressure	63	70	PSI
(C) First Final Flow Pressure	52	51	PSI
(D) Initial Closed-in Pressure	1353	1364	PSI
(E) Second Initial Flow Pressure	63	65	PSI
(F) Second Final Flow Pressure	63	57	PSI
(G) Final Closed-in Pressure	1217	1111	PSI
(H) Final Hydrostatic Mud	2236	2251	PSI

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NOMENCLATURE

b	== Approximate Radius of Investigation	Feet
b¹	== Approximate Radius of Investigation (Net Pay Zone h¹)	Feet
D.R.	== Damage Ratio	—
EI	== Elevation	Feet
GD	== B.T. Gauge Depth (From Surface Reference)	Feet
h	== Interval Tested	Feet
h¹	== Net Pay Thickness	Feet
K	== Permeability	md
K¹	== Permeability (From Net Pay Zone h¹)	md
m	== Slope Extrapolated Pressure Plot (Psi²/cycle Gas)	psi/cycle
OF¹	== Maximum Indicated Flow Rate	MCF/D
OF²	== Minimum Indicated Flow Rate	MCF/D
OF³	== Theoretical Open Flow Potential with/Damage Removed Max.	MCF/D
OF⁴	== Theoretical Open Flow Potential with/Damage Removed Min.	MCF/D
P^S	== Extrapolated Static Pressure	Psig.
P^F	== Final Flow Pressure	Psig.
P^{DT}	== Potentiometric Surface (Fresh Water*)	Feet
Q	== Average Adjusted Production Rate During Test	bbls/day
Q¹	== Theoretical Production w/Damage Removed	bbls/day
Q^g	== Measured Gas Production Rate	MCF/D
R	== Corrected Recovery	bbls
r^w	== Radius of Well Bore	Feet
t	== Flow Time	Minutes
t^o	== Total Flow Time	Minutes
T	== Temperature Rankine	°R
Z	== Compressibility Factor	—
u	== Viscosity Gas or Liquid	CP
Log	== Common Log	

* Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.