

Company Pendleton Land & Exploration, Inc. Lease & Well No. #1 Widmer
 Elevation 2591 Kelly Bushing Formation Council Grove Effective Pay --- Ft. Ticket No. 15774
 Date 2/15/83 Sec. 19 Twp. 30S Range 25W County Clark State Kansas
 Test Approved by Jim Clayton Western Representative Darrell Claphan

Formation Test No. 1 Interval Tested from 2752 ft. to 2783 ft. Total Depth 2783 ft.
 Packer Depth 2747 ft. Size 6 3/4 in. Packer Depth 2752 ft. Size 6 5/8 in.
 Packer Depth -- ft. Size -- in. Packer Depth -- ft. Size - in.
 Depth of Selective Zone Set --

Top Recorder Depth (Inside) 2754 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 2758 ft. Recorder Number 6233 Cap. 4000
 Below Straddle Recorder Depth -- ft. Recorder Number - Cap. -

Drilling Contractor Silverado Drlg. Rig #8 Drill Collar Length 448 I. D. 2.2 in.
 Mud Type chemical-Low Suds Viscosity 45 Weight Pipe Length -- I. D. - in.
 Weight 9.7 Water Loss -- cc. Drill Pipe Length 2272 I. D. 3.8 in.
 Chlorides 130,000 P.P.M. Test Tool Length 32 ft. Tool Size 4.5 in.
 Jars: Make WTC Serial Number 414 Anchor Length 31 ft. Size 5.5 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 4.5 in.

Blow: Initial flow period weak blow building throughout one eighth inch to one and one fourth inch. Weak blow slowly building from one eighth inch to one fourth inch on final flow.

Recovered 65 ft. of mud
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: Hit bridge approximately 1750'

Time Set Packer(s) 5:05 A.M. P.M. Time Started Off Bottom 8:50 A.M. P.M. Maximum Temperature 98°
 Initial Hydrostatic Pressure (A) 1369 P.S.I.
 Initial Flow Period Minutes 30 (B) 47 P.S.I. to (C) 47 P.S.I.
 Initial Closed In Period Minutes 42 (D) 570 P.S.I.
 Final Flow Period Minutes 60 (E) 53 P.S.I. to (F) 59 P.S.I.
 Final Closed In Period Minutes 84 (G) 617 P.S.I.
 Final Hydrostatic Pressure (H) 1348 P.S.I.



Fluid Sample Report

Date 2/15/83 Ticket No. 15774
 Company Pendleton Land & Exploration, Inc.
 Well Name & No. #1 Widmer DST No. 1
 County Clark State Kansas
 Sampler No. 2 Test Interval 2752'-2783'

Pressure in Sampler 20# PSIG BHT 98° OF

Total Volume of Sampler	3150	cc.
Total Volume of Sample:	1500	cc.
Oil:	--	cc.
Water:	--	cc.
Mud:	1500	cc.
Gas:	--	cu. ft.
Other:	--	

Resistivity

Water: ----- @ ----- of Chloride Content ----- ppm.

Mud Pit Sample ----- @ ----- of Chloride Content 130,000 ppm.

Gas/Oil Ratio ----- Gravity ----- °API @ ----- OF

Where was sample drained Dodge City Shop

Remarks: -----

WESTERN TESTING CO., INC.
Pressure Data

Date 2/15/83 Test Ticket No. 15774
 Recorder No. 2607 Capacity 4150 Location 2754 Ft.
 Clock No. --- Elevation 2591 Kelly Bushing Well Temperature 98 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1369</u> P.S.I.	Open Tool	<u>5:05P</u>	<u>M</u>
B First Initial Flow Pressure	<u>47</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>45</u> Mins.	<u>42</u> Mins.
D Initial Closed-in Pressure	<u>570</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>53</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>84</u> Mins.
F Second Final Flow Pressure	<u>59</u> P.S.I.			
G Final Closed-in Pressure	<u>617</u> P.S.I.			
H Final Hydrostatic Mud	<u>1348</u> P.S.I.			

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>14</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>28</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes
P 1	<u>47</u>	<u>0</u>	<u>47</u>	<u>0</u>	<u>53</u>	<u>0</u>	<u>59</u>	<u>0</u>
P 2	<u>47</u>	<u>5</u>	<u>54</u>	<u>3</u>	<u>53</u>	<u>5</u>	<u>83</u>	<u>3</u>
P 3	<u>47</u>	<u>10</u>	<u>67</u>	<u>6</u>	<u>53</u>	<u>10</u>	<u>108</u>	<u>6</u>
P 4	<u>47</u>	<u>15</u>	<u>95</u>	<u>9</u>	<u>53</u>	<u>15</u>	<u>149</u>	<u>9</u>
P 5	<u>47</u>	<u>20</u>	<u>137</u>	<u>12</u>	<u>54</u>	<u>20</u>	<u>201</u>	<u>12</u>
P 6	<u>47</u>	<u>25</u>	<u>205</u>	<u>15</u>	<u>54</u>	<u>25</u>	<u>262</u>	<u>15</u>
P 7	<u>47</u>	<u>30</u>	<u>281</u>	<u>18</u>	<u>54</u>	<u>30</u>	<u>315</u>	<u>18</u>
P 8			<u>354</u>	<u>21</u>	<u>55</u>	<u>35</u>	<u>359</u>	<u>21</u>
P 9			<u>414</u>	<u>24</u>	<u>56</u>	<u>40</u>	<u>397</u>	<u>24</u>
P10			<u>460</u>	<u>27</u>	<u>57</u>	<u>45</u>	<u>426</u>	<u>27</u>
P11			<u>495</u>	<u>30</u>	<u>58</u>	<u>50</u>	<u>450</u>	<u>30</u>
P12			<u>523</u>	<u>33</u>	<u>59</u>	<u>55</u>	<u>469</u>	<u>33</u>
P13			<u>545</u>	<u>36</u>	<u>59</u>	<u>60</u>	<u>489</u>	<u>36</u>
P14			<u>564</u>	<u>39</u>			<u>504</u>	<u>39</u>
P15			<u>570</u>	<u>42</u>			<u>519</u>	<u>42</u>
P16							<u>531</u>	<u>45</u>
P17							<u>542</u>	<u>48</u>
P18							<u>551</u>	<u>51</u>
P19							<u>560</u>	<u>54</u>
P20							<u>569</u>	<u>57</u>
							<u>576</u>	<u>60</u>

WESTERN TESTING CO., INC.
Pressure Data

Date 2/15/83 Test Ticket No. 15774
 Recorder No. 2607 Capacity 4150 Location 2754 Ft.
 Clock No. --- Elevation 2591 Kelly Bushing Well Temperature 98 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1369 P.S.I.	Open Tool	5:05P	M
B First Initial Flow Pressure	47 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	47 P.S.I.	Initial Closed-in Pressure	45 Mins.	42 Mins.
D Initial Closed-in Pressure	570 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	53 P.S.I.	Final Closed-in Pressure	90 Mins.	84 Mins.
F Second Final Flow Pressure	59 P.S.I.			
G Final Closed-in Pressure	617 P.S.I.			
H Final Hydrostatic Mud	1348 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 14 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 12 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 28 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						63	583
P 2						66	590
P 3						69	597
P 4						72	603
P 5						75	609
P 6						78	612
P 7						81	615
P 8						84	617
P 9							
P10							
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TKT # 15774

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Company Pendleton Land & Exploration, Inc. Lease & Well No. #1 Widmer
 Elevation 2582 Ground Level Formation Mississippi Effective Pay --- Ft. Ticket No. 18209
 Date 2/ 21 /83 Sec. 19 Twp. 30 S Range 25W County Clark State Kansas
 Test Approved by David Flinn Western Representative Mike Rogers

Formation Test No. 2 Interval Tested from 5345 ft. to 5415 ft. Total Depth 5415 ft.
 Packer Depth 5340 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 5345 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 5348 ft. Recorder Number 1566 Cap. 4300
 Bottom Recorder Depth (Outside) 5351 ft. Recorder Number 3086 Cap. 4500
 Below Straddle Recorder Depth --- ft. Recorder Number - Cap. -

Drilling Contractor Silverado Drlg. Rig #8 Drill Collar Length 427 I. D. 2.2 in.
 Mud Type chemical Viscosity 44 Weight Pipe Length - I. D. - in.
 Weight 9.1 Water Loss 8.0 cc. Drill Pipe Length 4887 I. D. 3.8 in.
 Chlorides 6,000 P.P.M. Test Tool Length 31 ft. Tool Size 5 1/2 in.
 Jars: Make WTC Serial Number 3660 DC in anchor 31' + 39'
 Anchor Length - ft. Size 5 1/2 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 XH in.

Blow: MISRUN

Recovered 480 ft. of drilling mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks: Packer seat failure

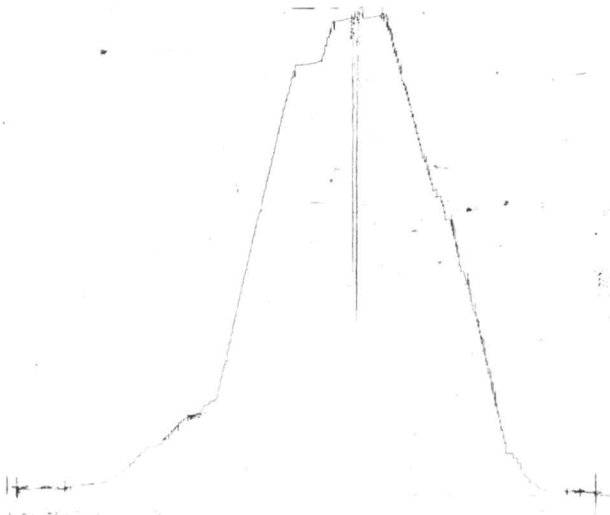
Time Set Packer(s) 6:30 ~~A.M.~~ P.M. Time Started Off Bottom ~~A.M.~~ P.M. Maximum Temperature
 Initial Hydrostatic Pressure (A) 2633 P.S.I.
 Initial Flow Period (B) - Minutes P.S.I. to (C) - P.S.I.
 Initial Closed In Period (D) - Minutes P.S.I.
 Final Flow Period (E) - Minutes P.S.I. to (F) - P.S.I.
 Final Closed In Period (G) - Minutes P.S.I.
 Final Hydrostatic Pressure (H) 2616 P.S.I.

TKT # 18209

1566
DST #2

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Company Pendleton Land & Exploration, Inc. Lease & Well No. #1 Widmer
 Elevation 2582 Ground Level Formation Mississippi Effective Pay --- Ft. Ticket No. 18210
 Date 2/ 22 /83 Sec. 19 Twp. 30 S Range 25W County Clark State Kansas
 Test Approved by David Flinn Western Representative Mike Rogers

Formation Test No. 3 Interval Tested from 5300 ft. to 5415 ft. Total Depth 5415 ft.
 Packer Depth 5295 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 5300 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 5395 ft. Recorder Number 1566 Cap. 4300
 Bottom Recorder Depth (Outside) 5399 ft. Recorder Number 3086 Cap. 4500
 Below Straddle Recorder Depth --- ft. Recorder Number - Cap. -

Drilling Contractor Silverado Drlg. Rig #8 Drill Collar Length 367 I. D. 2.2 in.
 Mud Type chemical Viscosity 44 Weight Pipe Length - I. D. - in.
 Weight 9.1 Water Loss 8.0 cc. Drill Pipe Length 4902 I. D. 3.8 in.
 Chlorides 6,000 P.P.M. Test Tool Length 31 ft. Tool Size 5 1/2 in.
 Jars: Make WTC Serial Number 3660 DC in anchor 90'+ Anchor Length 25 ft. Size 5 1/2 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 XH in.

Blow: MISRUN

Recovered 480 ft. of drilling mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

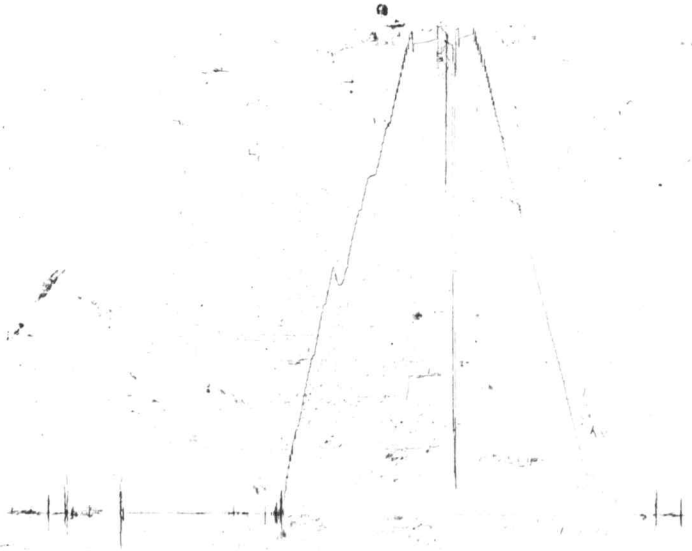
Remarks: Packer seat failure

Time Set Packer(s) --- A.M. P.M. Time Started Off Bottom --- A.M. P.M. Maximum Temperature ----
 Initial Hydrostatic Pressure (A) 2645 P.S.I.
 Initial Flow Period Minutes (B) P.S.I. to (C) P.S.I.
 Initial Closed In Period Minutes (D) P.S.I.
 Final Flow Period Minutes (E) P.S.I. to (F) P.S.I.
 Final Closed In Period Minutes (G) P.S.I.
 Final Hydrostatic Pressure (H) 2616 P.S.I.

TKT # 18210

1-566
DST 43

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Company Pendleton Land & Exploration, Inc. Lease & Well No. #1 Widmer
 Elevation 2582 Ground Level Formation Mississippi Effective Pay --- Ft. Ticket No. 18211
 Date 2/ 22 /83 Sec. 19 Twp. 30 S Range 25W County Clark State Kansas
 Test Approved by David Flinn Western Representative Mike Rogers

Formation Test No. 4 Interval Tested from 5230 ft. to 5415 ft. Total Depth 5415 ft.
 Packer Depth 5225 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 5230 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 5385 ft. Recorder Number 1566 Cap. 4300
 Bottom Recorder Depth (Outside) 5389 ft. Recorder Number 3086 Cap. 4500
 Below Straddle Recorder Depth --- ft. Recorder Number - Cap. -

Drilling Contractor Silverado Drlg. Rig #8 Drill Collar Length 309 I. D. 2.2 in.
 Mud Type chemical Viscosity 44 Weight Pipe Length - I. D. - in.
 Weight 9.1 Water Loss 8.0 cc. Drill Pipe Length 4890 I. D. 3.8 in.
 Chlorides 6,000 P.P.M. Test Tool Length 31 ft. Tool Size 5 1/2 in.
 Jars: Make WTC Serial Number 3660 DC in anchor 150+ 35' ft. Size 5 1/2 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 XH in.

Blow: MISRUN

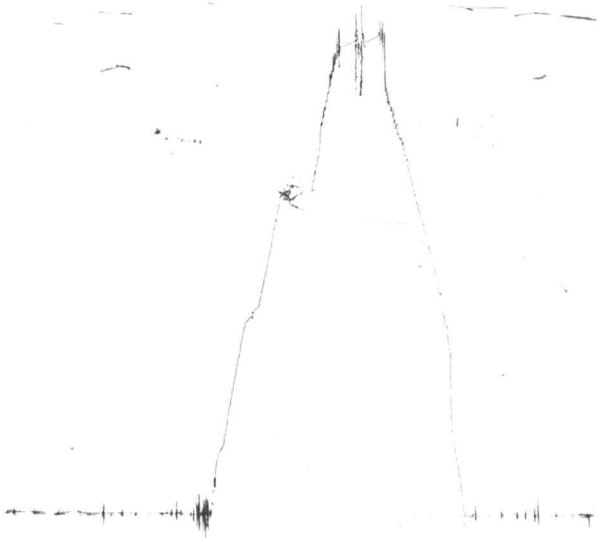
Recovered 400 ft. of drilling mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks: Packer seat failure

Time Set Packer(s) --- A.M. P.M. Time Started Off Bottom 9:00 A.M. P.M. Maximum Temperature ----
 Initial Hydrostatic Pressure (A) 2634 P.S.I.
 Initial Flow Period (B) - Minutes P.S.I. to (C) - P.S.I.
 Initial Closed In Period (D) - Minutes P.S.I.
 Final Flow Period (E) - Minutes P.S.I. to (F) - P.S.I.
 Final Closed In Period (G) - Minutes P.S.I.
 Final Hydrostatic Pressure (H) 2607 P.S.I.

TKT # 18211

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Company Pendleton Land & Exploration, Inc. Lease & Well No. #1 Widmer
 Elevation 2591 Kelly Bushing Formation Cherokee-Morrow Effective Pay -- Ft. Ticket No. 18078
 Date 2/24/83 Sec. 19 Twp. 30S Range 25W County Clark State Kansas
 Test Approved by Al Pendleton Western Representative Darrell Claphan

Formation Test No. 5 Interval Tested from 5286 ft. to 5415 ft. Total Depth 5501 ft.
 Packer Depth 5281 ft. Size 6 3/4 in. Packer Depth 5286 ft. Size 6 3/4 in.
 Packer Depth 5415 ft. Size 6 5/8 in. Packer Depth 5420 ft. Size 6 3/4 in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 5407 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 4511 ft. Recorder Number 6233 Cap. 4000
 Below Straddle Recorder Depth -- ft. Recorder Number - Cap. -

Drilling Contractor Silverado Drlg. Co. Rig#8 Drill Collar Length 448 I. D. 2.2 in.
 Mud Type chemical Viscosity -- Weight Pipe Length - I. D. - in.
 Weight 9.5 Water Loss 10.6 cc. Drill Pipe Length 4799 I. D. 3.8 in.
 Chlorides 9,000 P.P.M. Test Tool Length 39 ft. Tool Size 4.5 in.
 Jars: Make WTC Serial Number 414 Anchor Length 129' anchor + 86' Tail Pipe ft. Size 2.2 & 5.5 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 4.5 in.

Blow: MISRUN

Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of MISRUN NO PACKER SEAT
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

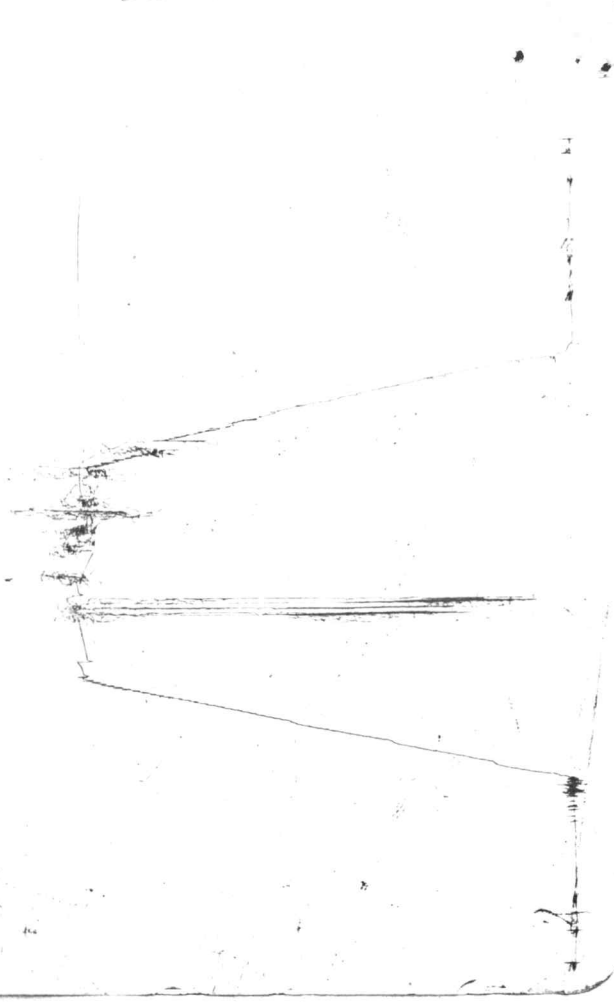
Remarks: TRIED TO SET THREE TIMES : HIT BRIDGES LAST SIX OR SEVEN STANDS OFF BOTTOM.

NO PRESSURES AVAILABLE

Time Set Packer(s) 2:15 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 2:45 ~~P.M.~~ ^{A.M.} Maximum Temperature ---
 Initial Hydrostatic Pressure (A) _____ P.S.I.
 Initial Flow Period Minutes (B) _____ P.S.I. to (C) _____ P.S.I.
 Initial Closed In Period Minutes (D) _____ P.S.I.
 Final Flow Period Minutes (E) _____ P.S.I. to (F) _____ P.S.I.
 Final Closed In Period Minutes (G) _____ P.S.I.
 Final Hydrostatic Pressure (H) _____ P.S.I.

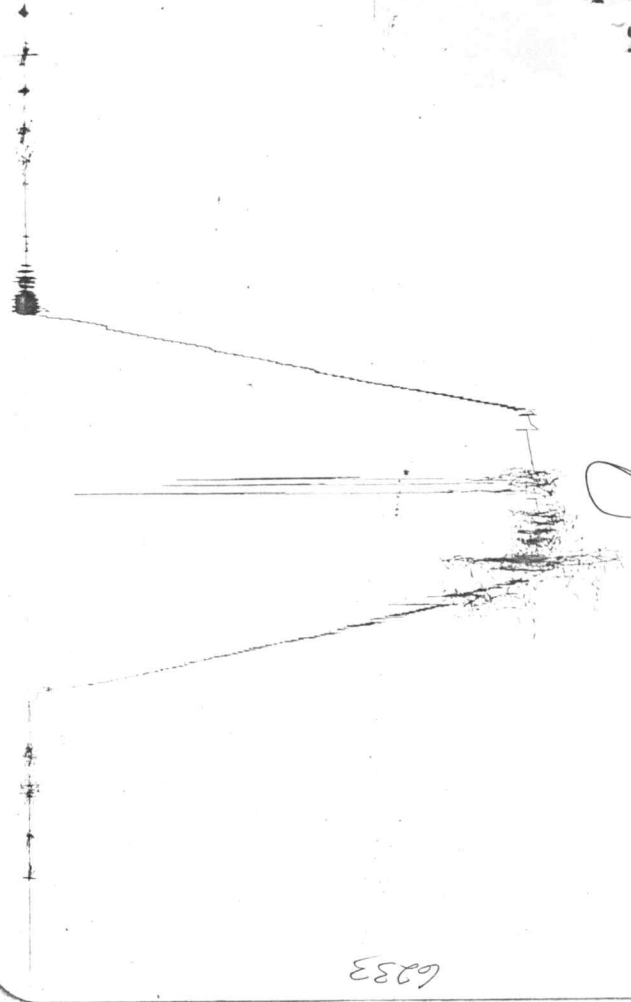
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Below Straddle

