



Home Office: Wichita, Kansas 67201

P.O. Box 1599

(316) 262-5861

Company Chief Drilling Company, Inc. Lease & Well No. Lundgren #1
Elevation 2613 Kelly Bushing Formation Lansing Effective Pay - Ft. Ticket No. 14543
Date 1/27/82 Sec. 28 Twp. 14S Range 29W County Gove State Kansas
Test Approved by Douglas C. Jarvis Western Representative Steve Eisenhour
Formation Test No. 1 Interval Tested from 3693 ft. to 3780 ft. Total Depth 3780 ft.
Packer Depth 3688 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 3693 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 3767 ft. Recorder Number 1564 Cap. 3150
Bottom Recorder Depth (Outside) 3770 ft. Recorder Number 4331 Cap. 4150
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Warrior Drlg. Rig #1 Drill Collar Length - I. D. - in.
Mud Type drispac Viscosity 43 Weight Pipe Length - I. D. - in.
Weight 9.5 Water Loss 11.4 cc. Drill Pipe Length 3672 I. D. 3.8 in.
Chlorides 13,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.
Jars: Make No Serial Number - Anchor Length 62 WP + 25 ft. Size 5 1/2 OD
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: Initial flow weak to strong blow off bottom of bucket in eighteen minutes. Final flow period weak to strong blow; off bottom of bucket in twenty-nine minutes.

Recovered 268 ft. of muddy water Chlorides 30,000 ppm

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 10:30 ~~A.M.~~ P.M. Time Started Off Bottom 12:30 ~~A.M.~~ P.M. Maximum Temperature 116°
Initial Hydrostatic Pressure (A) 1843 P.S.I.
Initial Flow Period Minutes 30 (B) 76 P.S.I. to (C) 127 P.S.I.
Initial Closed In Period Minutes 30 (D) 1047 P.S.I.
Final Flow Period Minutes 30 (E) 155 P.S.I. to (F) 193 P.S.I.
Final Closed In Period Minutes 30 (G) 1010 P.S.I.
Final Hydrostatic Pressure (H) 1843 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

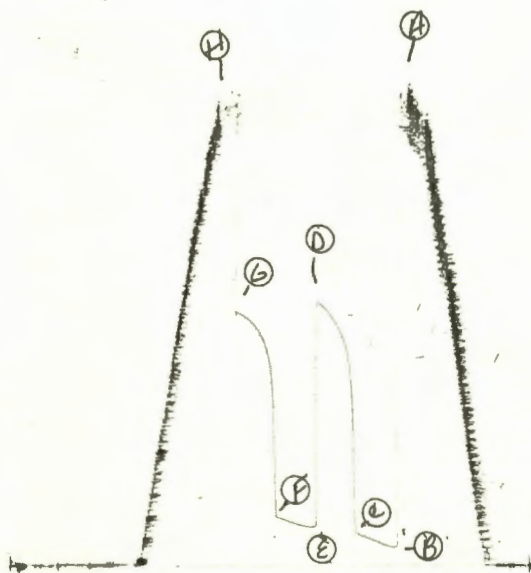
Date 1/27/82 Test Ticket No. 14543
 Recorder No. 1564 Capacity 3150 Location 3767 Ft.
 Clock No. -- Elevation 2613 Kelly Bushing Well Temperature 116 °F

Point	Pressure			Time	
				Given	Computed
A Initial Hydrostatic Mud	<u>1843</u>	P.S.I.	Open Tool	<u>10:30P</u>	<u>M</u>
B First Initial Flow Pressure	<u>76</u>	P.S.I.	First Flow Pressure	<u>30</u>	<u>Mins. 30</u>
C First Final Flow Pressure	<u>127</u>	P.S.I.	Initial Closed-in Pressure	<u>30</u>	<u>Mins. 30</u>
D Initial Closed-in Pressure	<u>1047</u>	P.S.I.	Second Flow Pressure	<u>30</u>	<u>Mins. 30</u>
E Second Initial Flow Pressure	<u>155</u>	P.S.I.	Final Closed-in Pressure	<u>30</u>	<u>Mins. 30</u>
F Second Final Flow Pressure	<u>193</u>	P.S.I.			
G Final Closed-in Pressure	<u>1010</u>	P.S.I.			
H Final Hydrostatic Mud	<u>1843</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>6</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>76</u>	<u>0</u>	<u>127</u>	<u>0</u>	<u>155</u>	<u>0</u>	<u>193</u>
P 2 <u>5</u>	<u>78</u>	<u>3</u>	<u>522</u>	<u>5</u>	<u>155</u>	<u>3</u>	<u>725</u>
P 3 <u>10</u>	<u>85</u>	<u>6</u>	<u>810</u>	<u>10</u>	<u>159</u>	<u>6</u>	<u>842</u>
P 4 <u>15</u>	<u>96</u>	<u>9</u>	<u>884</u>	<u>15</u>	<u>166</u>	<u>9</u>	<u>895</u>
P 5 <u>20</u>	<u>107</u>	<u>12</u>	<u>931</u>	<u>20</u>	<u>176</u>	<u>12</u>	<u>928</u>
P 6 <u>25</u>	<u>116</u>	<u>15</u>	<u>962</u>	<u>25</u>	<u>185</u>	<u>15</u>	<u>953</u>
P 7 <u>30</u>	<u>127</u>	<u>18</u>	<u>989</u>	<u>30</u>	<u>193</u>	<u>18</u>	<u>972</u>
P 8 _____	_____	<u>21</u>	<u>1016</u>	_____	_____	<u>21</u>	<u>987</u>
P 9 _____	_____	<u>24</u>	<u>1030</u>	_____	_____	<u>24</u>	<u>998</u>
P10 _____	_____	<u>27</u>	<u>1044</u>	_____	_____	<u>27</u>	<u>1006</u>
P11 _____	_____	<u>30</u>	<u>1047</u>	_____	_____	<u>30</u>	<u>1010</u>
P12 _____	_____	_____	_____	_____	_____	_____	_____
P13 _____	_____	_____	_____	_____	_____	_____	_____
P14 _____	_____	_____	_____	_____	_____	_____	_____
P15 _____	_____	_____	_____	_____	_____	_____	_____
P16 _____	_____	_____	_____	_____	_____	_____	_____
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____

~~Chas~~ Dr. J. J. J.
Lungren #1
D. J. J.



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1888	1843	PSI
(B) First Initial Flow Pressure	69	76	PSI
(C) First Final Flow Pressure	116	127	PSI
(D) Initial Closed-in Pressure	1037	1047	PSI
(E) Second Initial Flow Pressure	147	155	PSI
(F) Second Final Flow Pressure	178	193	PSI
(G) Final Closed-in Pressure	998	1010	PSI
(H) Final Hydrostatic Mud	1832	1843	PSI



Home Office: Wichita, Kansas 67201

P.O. Box 1599

(316) 262-5861

Company Chief Drilling Company, Inc. Lease & Well No. #1 Lundgren
Elevation 2613 Kelly Bushing Lansing Effective Pay - Ft. Ticket No. 14478
Date 1/28/82 28 14S 29W County Gove State Kansas
Test Approved by Douglas C. Jones Western Representative Doug Clore
Formation Test No. 2 Interval Tested from 3779 ft. to 3850 ft. Total Depth 3850 ft.
Packer Depth 3774 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 3779 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 3797 ft. Recorder Number 4339 Cap. 4300
Bottom Recorder Depth (Outside) 3800 ft. Recorder Number 3473 Cap. 4000
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Warrior Rig #1 Drill Collar Length - I. D. - in.
Mud Type Drispac Viscosity 41 Weight Pipe Length - I. D. - in.
Weight 9.3 Water Loss 10.2 cc. Drill Pipe Length 3759 I. D. 3.8 in.
Chlorides 10,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
Jars: Make No Serial Number - Anchor Length 71 ft. Size 5 1/2 OD in.
Did Well Flow? - Reversed Out Yes 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 to strong in 2 minutes on both flow periods.

Recovered 2150 ft. of muddy water Chlorides 45,000 PPM

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Initial flow went 8 minutes over due to elevators sticking causing tool to torque back.

Time Set Packer(s) 1:50 AM Time Started Off Bottom 3:58 AM Maximum Temperature 113
Initial Hydrostatic Pressure 1890 P.S.I.
Initial Flow Period 35 Minutes (B) 386 P.S.I. to (C) 1075 P.S.I.
Initial Closed In Period 33 Minutes (D) 1182 P.S.I.
Final Flow Period 30 Minutes (E) 1112 P.S.I. to (F) 1180 P.S.I.
Final Closed In Period 33 Minutes (G) 1185 P.S.I.
Final Hydrostatic Pressure 1857 P.S.I. (H)

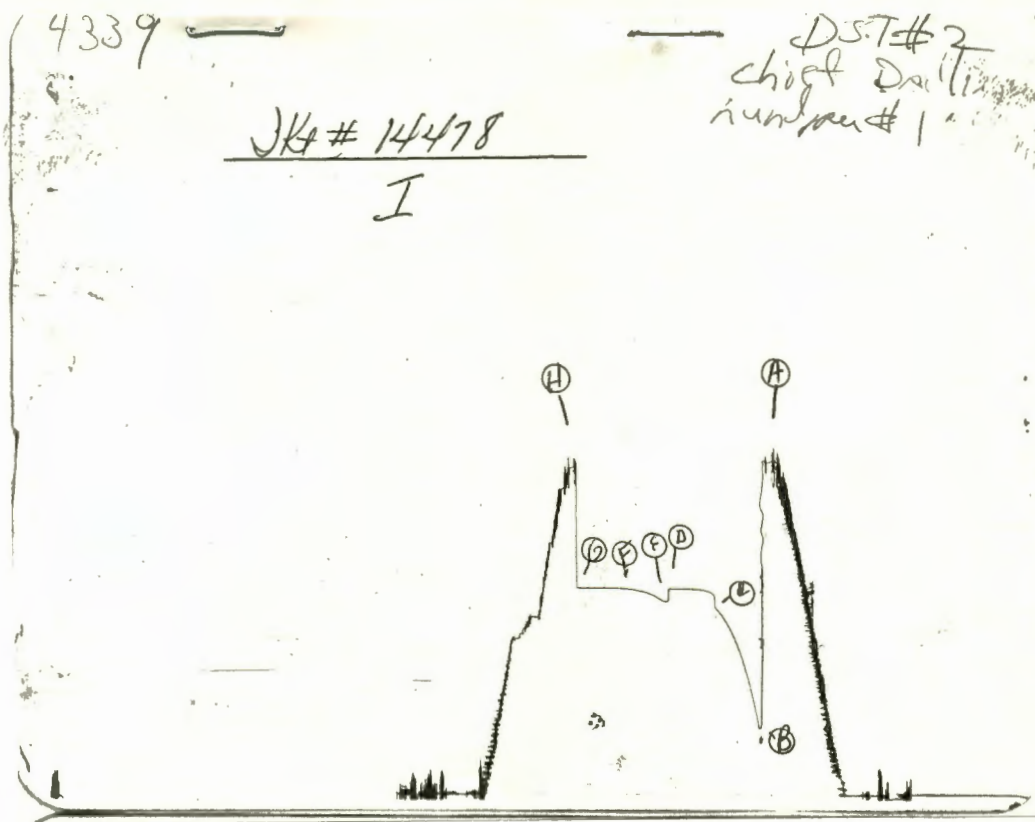
WESTERN TESTING CO., INC.

Pressure Data

Date 1/28/82 Test Ticket No. 14478
Recorder No. 4339 Capacity 4300 Location 3797 Ft
Clock No. - Elevation 2613 Kelly Bushing Well Temperature 113 °F
Point Pressure Time Given Time Computed
A Initial Hydrostatic Mud 1890 P.S.I. Open Tool 1:50P M
B First Initial Flow Pressure 386 P.S.I. First Flow Pressure 30 Mins 35 Mins
C First Final Flow Pressure 1075 P.S.I. Initial Closed-in Pressure 30 Mins 33 Mins
D Initial Closed-in Pressure 1182 P.S.I. Second Flow Pressure 30 Mins 30 Mins
E Second Initial Flow Pressure 1112 P.S.I. Final Closed-in Pressure 30 Mins 33 Mins
F Second Final Flow Pressure 1180 P.S.I.
G Final Closed-in Pressure 1185 P.S.I.
H Final Hydrostatic Mud 1857 P.S.I.

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>7</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>11</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>11</u> Inc. of <u>3</u> mins. and a 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>386</u>	<u>0</u>	<u>1075</u>	<u>0</u>	<u>1112</u>	<u>0</u>	<u>1180</u>
P 2 <u>5</u>	<u>509</u>	<u>3</u>	<u>1160</u>	<u>5</u>	<u>1118</u>	<u>3</u>	<u>1181</u>
P 3 <u>10</u>	<u>674</u>	<u>6</u>	<u>1169</u>	<u>10</u>	<u>1140</u>	<u>6</u>	<u>1182</u>
P 4 <u>15</u>	<u>799</u>	<u>9</u>	<u>1174</u>	<u>15</u>	<u>1158</u>	<u>9</u>	<u>1183</u>
P 5 <u>20</u>	<u>902</u>	<u>12</u>	<u>1178</u>	<u>20</u>	<u>1169</u>	<u>12</u>	<u>1184</u>
P 6 <u>25</u>	<u>975</u>	<u>15</u>	<u>1180</u>	<u>25</u>	<u>1175</u>	<u>15</u>	<u>1185</u>
P 7 <u>30</u>	<u>1037</u>	<u>18</u>	<u>1181</u>	<u>30</u>	<u>1180</u>	<u>18</u>	<u>1185</u>
P 8 <u>35</u>	<u>1075</u>	<u>21</u>	<u>1182</u>			<u>21</u>	<u>1185</u>
P 9		<u>24</u>	<u>1182</u>			<u>24</u>	<u>1185</u>
P10		<u>27</u>	<u>1182</u>			<u>27</u>	<u>1185</u>
P11		<u>30</u>	<u>1182</u>			<u>30</u>	<u>1185</u>
P12		<u>33</u>	<u>1182</u>			<u>33</u>	<u>1185</u>
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	1906	1890	PSI
(B) First Initial Flow Pressure	397	386	PSI
(C) First Final Flow Pressure	1078	1075	PSI
(D) Initial Closed-in Pressure	1166	1182	PSI
(E) Second Initial Flow Pressure	1100	1112	PSI
(F) Second Final Flow Pressure	1166	1180	PSI
(G) Final Closed-in Pressure	1166	1185	PSI
(H) Final Hydrostatic Mud	1863	1857	PSI



Home Office: Wichita, Kansas 67201
P.O. Box 1599 (316) 262-5861

Company Chief Drilling Company, Inc. Lease & Well No. #1 Lundgren
Elevation 2613 Kelly Bushing Formation Lansing Effective Pay - Ft. Ticket No. 14479
Date 1/29/82 Sec. 28 Twp. 14S Range 29W County Gove State Kansas
Test Approved by Douglas C. Jones Western Representative Doug Clore
Formation Test No. 3 Interval Tested from 3854 ft. to 3930 ft. Total Depth 3930 ft.
Packer Depth 3849 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 3854 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 3861 ft. Recorder Number 4339 Cap. 4300
Bottom Recorder Depth (Outside) 3864 ft. Recorder Number 3473 Cap. 4000
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Warrior Rig #1 Drill Collar Length - I. D. - in.
Mud Type Drispac Viscosity 41 Weight Pipe Length - I. D. - in.
Weight 9.3 Water Loss 10.2 cc. Drill Pipe Length 3834 I. D. 3.8 in.
Chlorides 10,000 PPM. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
Jars: Make No Serial Number - Anchor Length 76 ft. Size 5 1/2 OD in.
Did Well Flow? No Reversed Out Yes 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 to strong throughout test.

Recovered 1798 ft. of Gassy muddy water Chlorides 55,000 PPM
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of

Remarks:

Top stand of fluid was very slightly oil specked.

Time Set Packer(s) 5:10 ~~A.M.~~ ~~P.M.~~ Time Started Off Bottom 7:10 ~~A.M.~~ ~~P.M.~~ Maximum Temperature 115
Initial Hydrostatic Pressure 1950 P.S.I.
Initial Flow Period 30 Minutes (A) 200 P.S.I. to (C) 556 P.S.I.
Initial Closed In Period 30 Minutes (D) 1042 P.S.I.
Final Flow Period 30 Minutes (E) 632 P.S.I. to (F) 799 P.S.I.
Final Closed In Period 30 Minutes (G) 1048 P.S.I.
Final Hydrostatic Pressure 1896 P.S.I. (H)

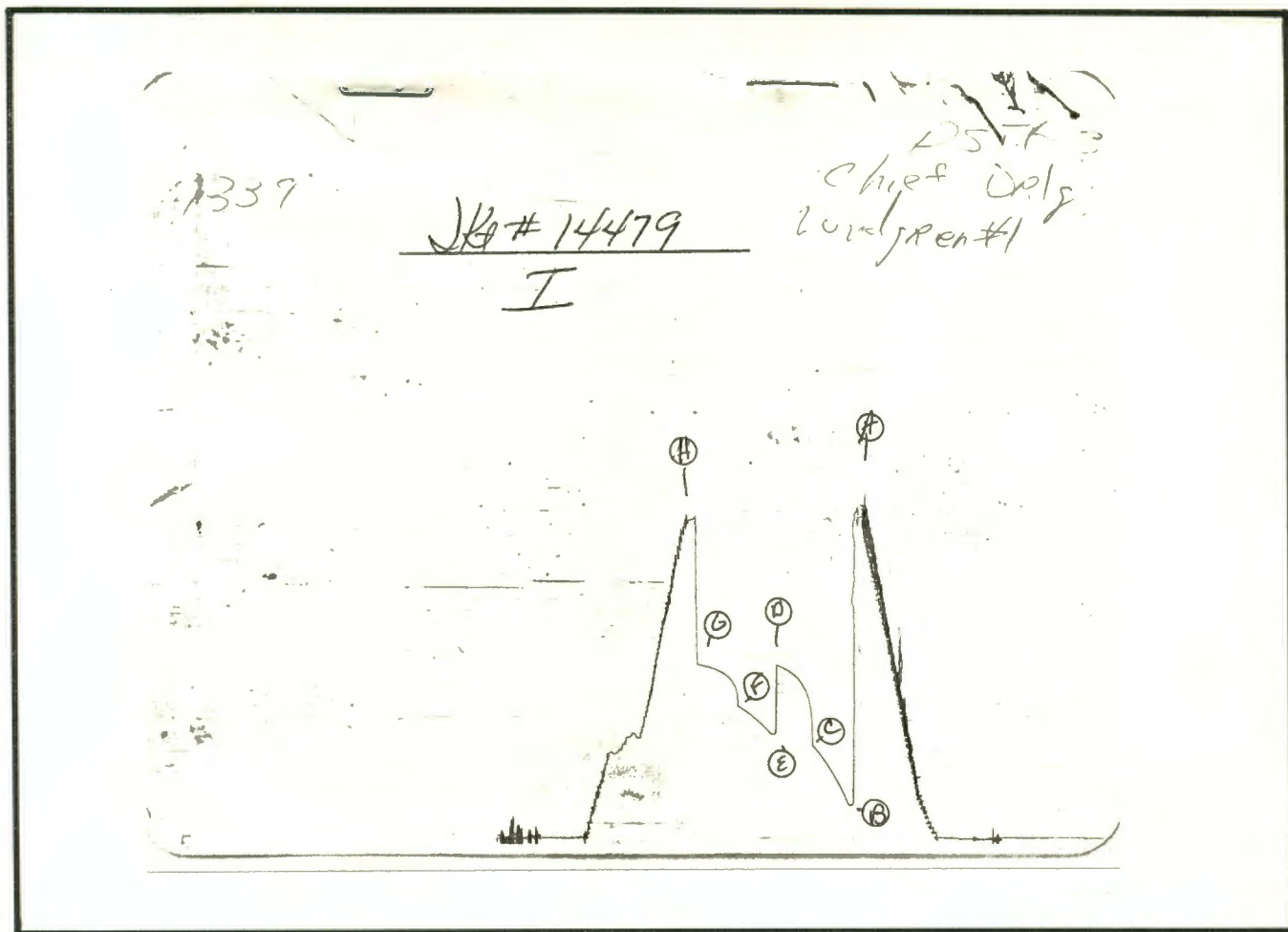
WESTERN TESTING CO., INC.

Pressure Data

Date 1/29/82 Test Ticket No. 14479
 Recorder No. 4339 Capacity 4300 Location 3861 Ft.
 Clock No. -- Elevation 2613 Kelly Bushing Well Temperature 115 °F
 Point Pressure Time Given Time Computed
 A Initial Hydrostatic Mud 1950 P.S.I. Open Tool 5:10A M
 B First Initial Flow Pressure 200 P.S.I. First Flow Pressure 30 Mins. 30 Mins.
 C First Final Flow Pressure 556 P.S.I. Initial Closed-in Pressure 30 Mins. 30 Mins.
 D Initial Closed-in Pressure 1042 P.S.I. Second Flow Pressure 30 Mins. 30 Mins.
 E Second Initial Flow Pressure 632 P.S.I. Final Closed-in Pressure 30 Mins. 30 Mins.
 F Second Final Flow Pressure 799 P.S.I.
 G Final Closed-in Pressure 1048 P.S.I.
 H Final Hydrostatic Mud 1896 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>6</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>200</u>	<u>0</u>	<u>556</u>	<u>0</u>	<u>632</u>	<u>0</u>	<u>799</u>
P 2 <u>5</u>	<u>223</u>	<u>3</u>	<u>824</u>	<u>5</u>	<u>643</u>	<u>3</u>	<u>926</u>
P 3 <u>10</u>	<u>307</u>	<u>6</u>	<u>891</u>	<u>10</u>	<u>683</u>	<u>6</u>	<u>964</u>
P 4 <u>15</u>	<u>382</u>	<u>9</u>	<u>935</u>	<u>15</u>	<u>719</u>	<u>9</u>	<u>987</u>
P 5 <u>20</u>	<u>445</u>	<u>12</u>	<u>964</u>	<u>20</u>	<u>752</u>	<u>12</u>	<u>998</u>
P 6 <u>25</u>	<u>502</u>	<u>15</u>	<u>987</u>	<u>25</u>	<u>781</u>	<u>15</u>	<u>1011</u>
P 7 <u>30</u>	<u>556</u>	<u>18</u>	<u>1004</u>	<u>30</u>	<u>799</u>	<u>18</u>	<u>1024</u>
P 8		<u>21</u>	<u>1018</u>			<u>21</u>	<u>1029</u>
P 9		<u>24</u>	<u>1031</u>			<u>24</u>	<u>1035</u>
P10		<u>27</u>	<u>1039</u>			<u>27</u>	<u>1042</u>
P11		<u>30</u>	<u>1042</u>			<u>30</u>	<u>1048</u>
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	2048	1950	PSI
(B) First Initial Flow Pressure	193	200	PSI
(C) First Final Flow Pressure	555	556	PSI
(D) Initial Closed-in Pressure	1035	1042	PSI
(E) Second Initial Flow Pressure	611	632	PSI
(F) Second Final Flow Pressure	779	799	PSI
(G) Final Closed-in Pressure	1024	1048	PSI
(H) Final Hydrostatic Mud	2037	1896	PSI



Home Office: Wichita, Kansas 67201
P.O. Box 1599 (316) 262-5861

Company Chief Drilling Company, Inc. Lease & Well No. #1 Lundgren
Elevation 2613 Kelly Bushing Formation Lansing Effective Pay - Ft. Ticket No. 14480
Date 1/29/82 Sec. 28 Twp. 14S Range 29W County Gove State Kansas
Test Approved by Douglas C. Jones Western Representative Doug Clore
Formation Test No. 4 Interval Tested from 3935 ft. to 4003 ft. Total Depth 4003 ft.
Packer Depth 3930 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 3935 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 3962 ft. Recorder Number 4339 Cap. 4300
Bottom Recorder Depth (Outside) 3965 ft. Recorder Number 3473 Cap. 4000
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Warrior Rig #1 Drill Collar Length - I. D. - in.
Mud Type Drispac Viscosity 43 Weight Pipe Length - I. D. - in.
Weight 9.4 Water Loss 11.6 cc. Drill Pipe Length 3915 I. D. 3.8 in.
Chlorides 11,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
Jars: Make No Serial Number - Anchor Length 68 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: Initial flow period weak to fair then fair to weak. Final flow period weak steady.

Recovered 82 ft. of clean gassy oil gravity of 40
Recovered 372 ft. of mud cut oil - 18% mud; 7% water; 10% gas; 65% oil
Recovered ft. of
Recovered ft. of
Recovered ft. of

Remarks:

Time Set Packer(s) 8:15 AM. Time Started Off Bottom 10:45 AM. Maximum Temperature 115
Initial Hydrostatic Pressure 2015 P.S.I.
Initial Flow Period 30 Minutes (B) 83 P.S.I. to (C) 132 P.S.I.
Initial Closed In Period 30 Minutes (D) 1015 P.S.I.
Final Flow Period 60 Minutes (E) 157 P.S.I. to (F) 214 P.S.I.
Final Closed In Period 30 Minutes (G) 886 P.S.I.
Final Hydrostatic Pressure 1961 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 1/29/82 Test Ticket No. 14480
 Recorder No. 4339 Capacity 4300 Location 3962
 Clock No. --- Elevation 2613 Kelly Bushing Well Temperature 115
 Point Pressure Time Given Time Computed
 A Initial Hydrostatic Mud 2015 P.S.I. Open Tool 8:15P M
 B First Initial Flow Pressure 83 P.S.I. First Flow Pressure 30 Mins. 30 Min.
 C First Final Flow Pressure 132 P.S.I. Initial Closed-in Pressure 30 Mins. 30 Min.
 D Initial Closed-in Pressure 1015 P.S.I. Second Flow Pressure 60 Mins. 60 Min.
 E Second Initial Flow Pressure 157 P.S.I. Final Closed-in Pressure 30 Mins. 30 Min.
 F Second Final Flow Pressure 214 P.S.I.
 G Final Closed-in Pressure 886 P.S.I.
 H Final Hydrostatic Mud 1961 P.S.I.

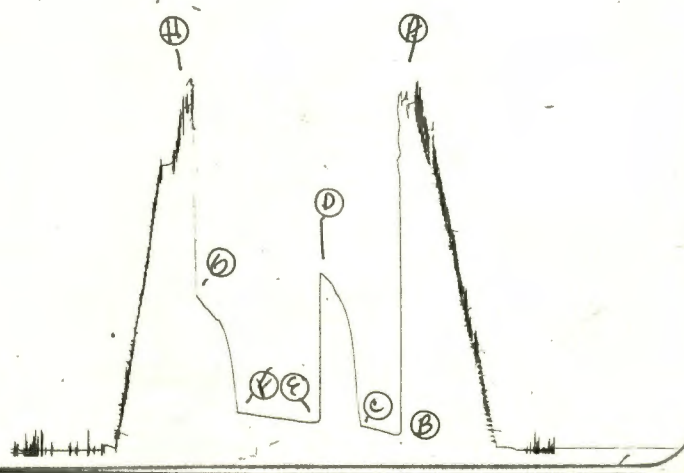
PRESSURE BREAKDOWN

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>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>83</u>	<u>0</u>	<u>132</u>	<u>0</u>	<u>157</u>	<u>0</u>	<u>214</u>
P 2 <u>5</u>	<u>83</u>	<u>3</u>	<u>350</u>	<u>5</u>	<u>157</u>	<u>3</u>	<u>430</u>
P 3 <u>10</u>	<u>95</u>	<u>6</u>	<u>614</u>	<u>10</u>	<u>157</u>	<u>6</u>	<u>578</u>
P 4 <u>15</u>	<u>107</u>	<u>9</u>	<u>741</u>	<u>15</u>	<u>164</u>	<u>9</u>	<u>670</u>
P 5 <u>20</u>	<u>116</u>	<u>12</u>	<u>815</u>	<u>20</u>	<u>170</u>	<u>12</u>	<u>728</u>
P 6 <u>25</u>	<u>127</u>	<u>15</u>	<u>862</u>	<u>25</u>	<u>176</u>	<u>15</u>	<u>752</u>
P 7 <u>30</u>	<u>132</u>	<u>18</u>	<u>902</u>	<u>30</u>	<u>182</u>	<u>18</u>	<u>779</u>
P 8		<u>21</u>	<u>951</u>	<u>35</u>	<u>184</u>	<u>21</u>	<u>806</u>
P 9		<u>24</u>	<u>980</u>	<u>40</u>	<u>191</u>	<u>24</u>	<u>826</u>
P10		<u>27</u>	<u>1002</u>	<u>45</u>	<u>195</u>	<u>27</u>	<u>862</u>
P11		<u>30</u>	<u>1015</u>	<u>50</u>	<u>205</u>	<u>30</u>	<u>886</u>
P12				<u>55</u>	<u>209</u>		
P13				<u>60</u>	<u>214</u>		
P14							
P15							
P16							
P17							
P18							
P19							
P20							

4339

JK # 14480

I

D57#4
Chief Dalg
Lundgren #

This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2037	2015	PSI
(B) First Initial Flow Pressure	68	83	PSI
(C) First Final Flow Pressure	125	132	PSI
(D) Initial Closed-in Pressure	1002	1015	PSI
(E) Second Initial Flow Pressure	147	157	PSI
(F) Second Final Flow Pressure	204	214	PSI
(G) Final Closed-in Pressure	881	886	PSI
(H) Final Hydrostatic Mud	1950	1961	PSI

Home Office: Wichita, Kansas 67201

P.O. Box 1599

(316) 262-5861

#1 Lundgren

Company Chief Drilling Company, Inc.						Lease & Well No.		#1 Lundgren
Elevation	2613 Kelly Bushing		Pawnee	Effective Pay	-	Ft.	Ticket No.	14481
Date	1/30/82	Sec 28	Twp 14S	Range 29W	County Gove	State Kansas		
Test Approved by	Douglas C Jones			Western Representative	Doug Clore			
Formation Test No.	5	Interval Tested from	4117	ft. to	4208	ft.	Total Depth	4208 ft.
Packer Depth	4112	ft.	Size 6 3/4	in.	Packer Depth	-	ft.	Size - in.
Packer Depth	4117	ft.	Size 6 3/4	in.	Packer Depth	-	ft.	Size - in.
Depth of Selective Zone Set	-							
Top Recorder Depth (Inside)			4134	ft.	Recorder Number	4339	Cap.	4300
Bottom Recorder Depth (Outside)			4137	ft.	Recorder Number	3473	Cap.	4000
Below Straddle Recorder Depth			-	ft.	Recorder Number	-	Cap.	-
Drilling Contractor	Warrior Rig #1			Drill Collar Length	-	I. D.	-	in.
Mud Type	Drispac	Viscosity	44	Weight Pipe Length	-	I. D.	-	in.
Weight	9.6	Water Loss	12.8 cc.	Drill Pipe Length	4097	I. D.	3.8	in.
Chlorides	12,000	P.P.M.		Test Tool Length	20	ft.	Tool Size	5 1/2 OD in.
Jars: Make	No	Serial Number	-	Anchor Length	91	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: Initial flow period weak to fair. Final flow period weak to strong.

Recovered	186	ft. of	heavy mud cut oil- 10% water; 24% mud; 75% oil
Recovered	62	ft. of	heavy mud cut oil - 5% water; 30% mud; 65% oil
Recovered	62	ft. of	heavy oil cut mud - 20% water; 65% mud; 15% oil
Recovered		ft. of	
Recovered		ft. of	
Remarks:			

Time Set	Packer(s)	<u>A.M.</u> P.M.	Time Started	Off Bottom	<u>A.M.</u> P.M.	Maximum Temperature	
		10:50			1:35		117
Initial Hydrostatic Pressure			(A)	2157	P.S.I.		
Initial Flow Period	Minutes	30	(B)	52	P.S.I. to (C)	82	P.S.I.
Initial Closed In Period	Minutes	27	(D)	1088	P.S.I.		
Final Flow Period	Minutes	65	(E)	102	P.S.I. to (F)	155	P.S.I.
Final Closed In Period	Minutes	42	(G)	1024	P.S.I.		
Final Hydrostatic Pressure			(H)	2069	P.S.I.		

WESTERN TESTING CO., INC.

Pressure Data

Date 1/30/82 Test Ticket No. 14481
 Recorder No. 4339 Capacity 4300 Location 4134 Ft.
 Clock No. - Elevation 2613 Kelly Bushing Well Temperature 117 °F

Point	Pressure	Time Given	Time Computed
A. Initial Hydrostatic Mud	2157 P.S.I.	10:50P	M
B First Initial Flow Pressure	52 P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	82 P.S.I.	30 Mins.	27 Mins.
D Initial Closed-in Pressure	1088 P.S.I.	60 Mins.	65 Mins.
E Second Initial Flow Pressure	102 P.S.I.	45 Mins.	42 Mins.
F Second Final Flow Pressure	155 P.S.I.		
G Final Closed-in Pressure	1024 P.S.I.		
H Final Hydrostatic Mud	2069 P.S.I.		

PRESSURE BREAKDOWN

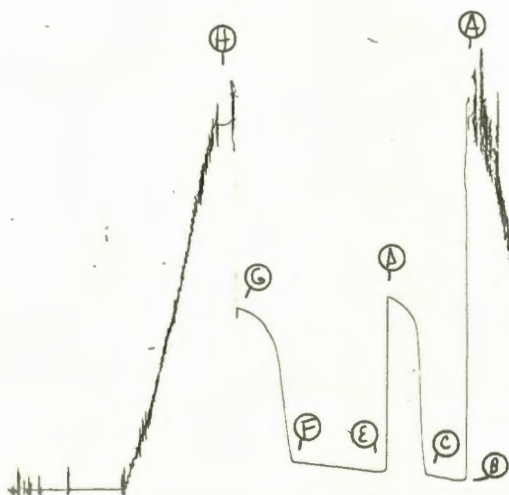
First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>9</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>13</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>14</u> Inc. of <u>3</u> mins. and a 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>52</u>	<u>0</u>	<u>82</u>	<u>0</u>	<u>102</u>	<u>0</u>	<u>155</u>
P 2 <u>5</u>	<u>52</u>	<u>3</u>	<u>325</u>	<u>5</u>	<u>102</u>	<u>3</u>	<u>211</u>
P 3 <u>10</u>	<u>52</u>	<u>6</u>	<u>875</u>	<u>10</u>	<u>102</u>	<u>6</u>	<u>377</u>
P 4 <u>15</u>	<u>61</u>	<u>9</u>	<u>964</u>	<u>15</u>	<u>107</u>	<u>9</u>	<u>574</u>
P 5 <u>20</u>	<u>68</u>	<u>12</u>	<u>1000</u>	<u>20</u>	<u>114</u>	<u>12</u>	<u>748</u>
P 6 <u>25</u>	<u>77</u>	<u>15</u>	<u>1026</u>	<u>25</u>	<u>118</u>	<u>15</u>	<u>833</u>
P 7 <u>30</u>	<u>82</u>	<u>18</u>	<u>1044</u>	<u>30</u>	<u>124</u>	<u>18</u>	<u>879</u>
P 8		<u>21</u>	<u>1061</u>	<u>35</u>	<u>127</u>	<u>21</u>	<u>915</u>
P 9		<u>24</u>	<u>1077</u>	<u>40</u>	<u>132</u>	<u>24</u>	<u>949</u>
P10		<u>27</u>	<u>1088</u>	<u>45</u>	<u>136</u>	<u>27</u>	<u>969</u>
P11				<u>50</u>	<u>141</u>	<u>30</u>	<u>987</u>
P12				<u>55</u>	<u>144</u>	<u>33</u>	<u>1000</u>
P13				<u>60</u>	<u>150</u>	<u>36</u>	<u>1009</u>
P14				<u>65</u>	<u>155</u>	<u>39</u>	<u>1018</u>
P15						<u>42</u>	<u>1024</u>
P16							
P17							
P18							
P19							
P20							

433 f.

TKT # 14481

I

PST # 5
Chas Doyle
Lynch # 1



This is an actual photograph of recorder chart.

PRESSURE

POINT	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2179	2157	PSI
(B) First Initial Flow Pressure	56	52	PSI
(C) First Final Flow Pressure	79	82	PSI
(D) Initial Closed-in Pressure	1057	1088	PSI
(E) Second Initial Flow Pressure	79	102	PSI
(F) Second Final Flow Pressure	147	155	PSI
(G) Final Closed-in Pressure	991	1024	PSI
(H) Final Hydrostatic Mud	2080	2069	PSI



Home Office: Wichita, Kansas 67201

P.O. Box 1599

(316) 262-5861

Company Chief Drilling Company, Inc. Lease & Well No. #1 Lundgren
Elevation 2613 Kelly Bushing Formation Cherokee Effective Pay - Ft. Ticket No. 14482
Date 1/31/82 Sec. 28 Twp. 14S Range 29W County Gove State Kansas
Test Approved by Debbie Wilcox Western Representative Doug Clore
Formation Test No. 6 Interval Tested from 4194 ft. to 4260 ft. Total Depth 4260 ft.
Packer Depth 4189 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 4194 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 4217 ft. Recorder Number 4339 Cap 4300
Bottom Recorder Depth (Outside) 4220 ft. Recorder Number 3473 Cap 4000
Below Straddle Recorder Depth - ft. Recorder Number - Cap -
Drilling Contractor Warrior Rig #1 Drill Collar Length - I. D. - in.
Mud Type Chemical Viscosity 44 Weight Pipe Length - I. D. - in.
Weight 9.6 Water Loss 10.8 cc. Drill Pipe Length 4174 I. D. 3.8 in.
Chlorides 12,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
Jars: Make No Serial Number - Anchor Length 66 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: Weak to strong throughout test.

Recovered 372 ft. of gas
Recovered 170 ft. of mud cut gassy oil - 25% gas; 65% oil; 7% water; 3% mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 3:00 ~~AM~~ P.M. Time Started Off Bottom 5:00 ~~AM~~ P.M. Maximum Temperature 116
Initial Hydrostatic Pressure 2200 P.S.I. (A)
Initial Flow Period 30 Minutes (B) 45 P.S.I. to (C) 63 P.S.I.
Initial Closed In Period 33 Minutes (D) 1137 P.S.I.
Final Flow Period 30 Minutes (E) 76 P.S.I. to (F) 92 P.S.I.
Final Closed In Period 33 Minutes (G) 1129 P.S.I.
Final Hydrostatic Pressure 2146 P.S.I. (H)

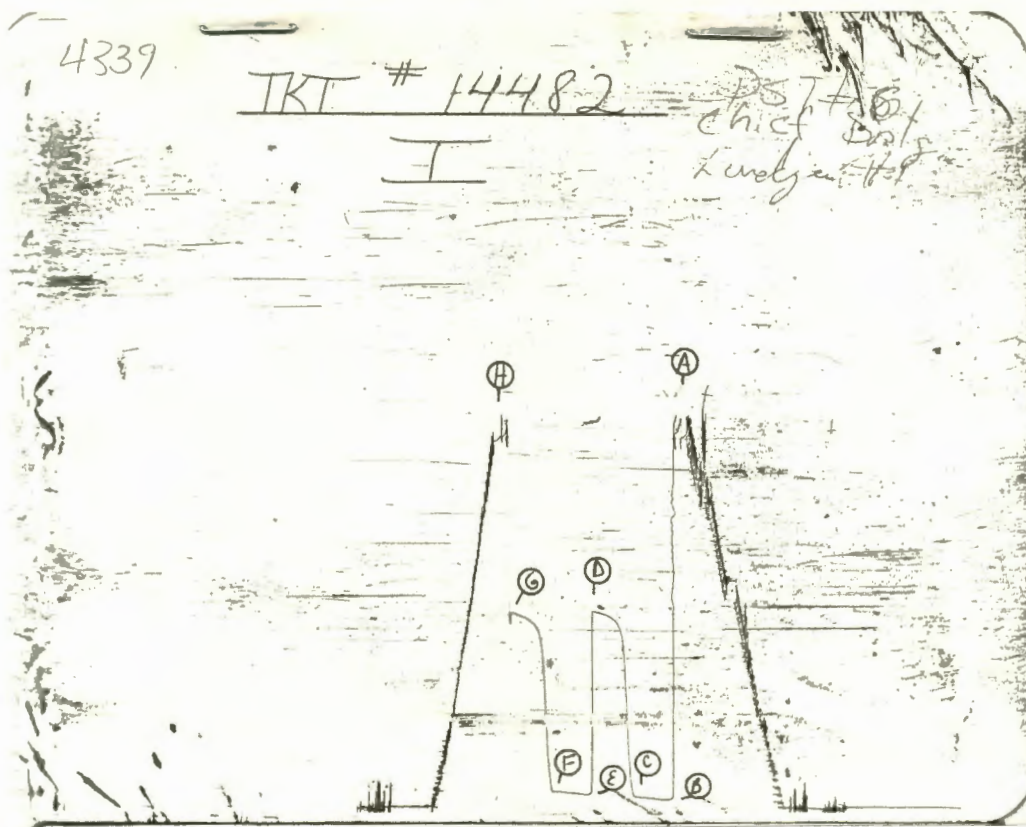
WESTERN TESTING CO., INC.

Pressure Data

Date 1/31/82 Test Ticket No. 14482
 Recorder No. 4339 Capacity 4300 Location 4217 Ft.
 Clock No. - Elevation 2613 Kelly Bushing Well Temperature 116 °F
 Point Pressure Time Given Time Computed
 A Initial Hydrostatic Mud 2200 P.S.I. Open Tool 3:00P M
 B First Initial Flow Pressure 45 P.S.I. First Flow Pressure 30 Mins. 30 Mins.
 C First Final Flow Pressure 63 P.S.I. Initial Closed-in Pressure 30 Mins. 33 Mins.
 D Initial Closed-in Pressure 1137 P.S.I. Second Flow Pressure 30 Mins. 30 Mins.
 E Second Initial Flow Pressure 76 P.S.I. Final Closed-in Pressure 30 Mins. 33 Mins.
 F Second Final Flow Pressure 92 P.S.I.
 G Final Closed-in Pressure 1129 P.S.I.
 H Final Hydrostatic Mud 2146 P.S.I.

PRESSURE BREAKDOWN

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>11</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>11</u> Inc. of <u>3</u> mins. and a 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>45</u>	<u>0</u>	<u>63</u>	<u>0</u>	<u>76</u>	<u>0</u>	<u>92</u>
P 2 <u>5</u>	<u>45</u>	<u>3</u>	<u>214</u>	<u>5</u>	<u>76</u>	<u>3</u>	<u>241</u>
P 3 <u>10</u>	<u>48</u>	<u>6</u>	<u>647</u>	<u>10</u>	<u>82</u>	<u>6</u>	<u>672</u>
P 4 <u>15</u>	<u>52</u>	<u>9</u>	<u>980</u>	<u>15</u>	<u>85</u>	<u>9</u>	<u>964</u>
P 5 <u>20</u>	<u>57</u>	<u>12</u>	<u>1053</u>	<u>20</u>	<u>89</u>	<u>12</u>	<u>1042</u>
P 6 <u>25</u>	<u>60</u>	<u>15</u>	<u>1086</u>	<u>25</u>	<u>90</u>	<u>15</u>	<u>1070</u>
P 7 <u>30</u>	<u>63</u>	<u>18</u>	<u>1103</u>	<u>30</u>	<u>92</u>	<u>18</u>	<u>1090</u>
P 8		<u>21</u>	<u>1114</u>			<u>21</u>	<u>1103</u>
P 9		<u>24</u>	<u>1123</u>			<u>24</u>	<u>1112</u>
P10		<u>27</u>	<u>1128</u>			<u>27</u>	<u>1121</u>
P11		<u>30</u>	<u>1135</u>			<u>30</u>	<u>1127</u>
P12		<u>33</u>	<u>1137</u>			<u>33</u>	<u>1129</u>
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	2200	2200	PSI
(B) First Initial Flow Pressure	45	45	PSI
(C) First Final Flow Pressure	68	63	PSI
(D) Initial Closed-in Pressure	1122	1137	PSI
(E) Second Initial Flow Pressure	68	76	PSI
(F) Second Final Flow Pressure	79	92	PSI
(G) Final Closed-in Pressure	1122	1129	PSI
(H) Final Hydrostatic Mud	2146	2146	PSI