



Home Office: Wichita, Kansas 67201

Company Burge, Inc. P. O. Box 1599 (316) 838-0601 Lease & Well No. Zamrzla #1
Elevation 1795 Ground Level Formation Lansing Effective Pay ----- Ft. Ticket No. 856
Date 5/14/78 Sec. 13 Twp. 15S Range 11W County Russell State Kansas
Test Approved by Toby Elster Western Representative Vernon Wondra
Formation Test No. 1 Interval Tested from 2976' ft. to 2992' ft. Total Depth 2992' ft.
Packer Depth 2971 ft. Size 6 3/4 in. Packer Depth ----- ft. Size --- in.
Packer Depth 2976 ft. Size 6 3/4 in. Packer Depth ----- ft. Size --- in.
Depth of Selective Zone Set -----
Top Recorder Depth (Inside) 2982 ft. Recorder Number 1563 Cap. 4200
Bottom Recorder Depth (Outside) 2985 ft. Recorder Number 1565 Cap. 3150
Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. --
Drilling Contractor Emphasis, Rig #1 Drill Collar Length 125 I. D. 2 1/4 in.
Mud Type starch Viscosity 41 Weight Pipe Length -- I. D. -- in.
Weight 9.9 Water Loss 14.2 cc. Drill Pipe Length 2829 I. D. 3.8 in.
Chlorides 87,000 P.P.M. Test Tool Size 5 1/2 OD in. Tool Joint Size 4 1/2 FH in.
Jars: Make ----- Serial Number ----- Anchor Length 16 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.

Blow: Slid tool 10' to bottom; Fair 3" blow; bled off pressure, - no blow.

Recovered 100 ft. of mud

Recovered ----- ft. of -----

Recovered ----- ft. of -----

Recovered ----- ft. of -----

Recovered ----- ft. of -----

Remarks: -----

Time Set Packer(s) 1:55 ~~AM~~ P.M. Time Started Off Bottom 4:40 ~~AM~~ P.M. Maximum Temperature 99
Initial Hydrostatic Pressure ----- (A) 1650 P.S.I.
Initial Flow Period ----- Minutes 45 (B) 114 P.S.I. to (C) 91 P.S.I.
Initial Closed In Period ----- Minutes 45 (D) 1065 P.S.I.
Final Flow Period ----- Minutes 30 (E) 123 P.S.I. to (F) 92 P.S.I.
Final Closed In Period ----- Minutes 45 (G) 1049 P.S.I.
Final Hydrostatic Pressure ----- (H) 1639 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 5-14-78

Test Ticket No. 856

Recorder No. 1563

Capacity 4200

Location 2982

Clock No. -----

Elevation 1795 Ground Level

Well Temperature 99

Point

Pressure

Time
Given
1:55P

Time
Computed

A Initial Hydrostatic Mud	1650	P.S.I.	Open Tool		
B First Initial Flow Pressure	114	P.S.I.	First Flow Pressure	45 Mins	45 Mins
C First Final Flow Pressure	91	P.S.I.	Initial Closed-in Pressure	45 Mins	42 Mins
D Initial Closed-in Pressure	1065	P.S.I.	Second Flow Pressure	30 Mins	30 Mins
E Second Initial Flow Pressure	123	P.S.I.	Final Closed-in Pressure	45 Mins	42 Mins
F Second Final Flow Pressure	92	P.S.I.			
G Final Closed-in Pressure	1049	P.S.I.			
H Final Hydrostatic Mud	1639	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure

Breakdown: 9 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.

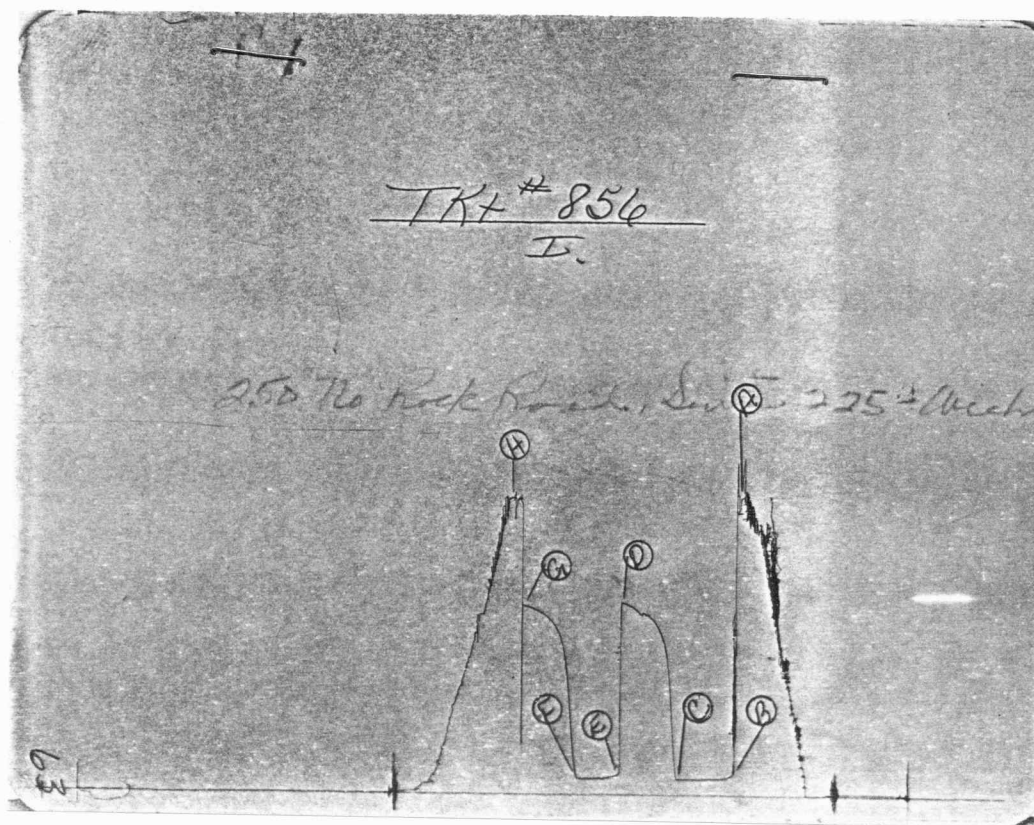
Second Flow Pressure

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

Final Shut-In

Breakdown: 14 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 <u>0</u>	<u>114</u>	<u>0</u>	<u>91</u>	<u>0</u>	<u>123</u>	<u>0</u>	<u>92</u>
P 2 <u>5</u>	<u>97</u>	<u>3</u>	<u>349</u>	<u>5</u>	<u>104</u>	<u>3</u>	<u>179</u>
P 3 <u>10</u>	<u>93</u>	<u>6</u>	<u>640</u>	<u>10</u>	<u>97</u>	<u>6</u>	<u>440</u>
P 4 <u>15</u>	<u>92</u>	<u>9</u>	<u>796</u>	<u>15</u>	<u>93</u>	<u>9</u>	<u>653</u>
P 5 <u>20</u>	<u>92</u>	<u>12</u>	<u>881</u>	<u>20</u>	<u>92</u>	<u>12</u>	<u>798</u>
P 6 <u>25</u>	<u>92</u>	<u>15</u>	<u>928</u>	<u>25</u>	<u>92</u>	<u>15</u>	<u>881</u>
P 7 <u>30</u>	<u>92</u>	<u>18</u>	<u>966</u>	<u>30</u>	<u>92</u>	<u>18</u>	<u>928</u>
P 8 <u>35</u>	<u>91</u>	<u>21</u>	<u>989</u>			<u>21</u>	<u>964</u>
P 9 <u>40</u>	<u>91</u>	<u>24</u>	<u>1000</u>			<u>24</u>	<u>987</u>
P10 <u>45</u>	<u>91</u>	<u>27</u>	<u>1001</u>			<u>27</u>	<u>1002</u>
P11		<u>30</u>	<u>1017</u>			<u>30</u>	<u>1015</u>
P12		<u>33</u>	<u>1038</u>			<u>33</u>	<u>1024</u>
P13		<u>36</u>	<u>1051</u>			<u>36</u>	<u>1035</u>
P14		<u>39</u>	<u>1059</u>			<u>39</u>	<u>1042</u>
P15		<u>42</u>	<u>1065</u>			<u>42</u>	<u>1049</u>
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1649	1650	PSI
(B) First Initial Flow Pressure	86	114	PSI
(C) First Final Flow Pressure	86	91	PSI
(D) Initial Closed-in Pressure	1059	1065	PSI
(E) Second Initial Flow Pressure	96	123	PSI
(F) Second Final Flow Pressure	86	92	PSI
(G) Final Closed-in Pressure	1037	1049	PSI
(H) Final Hydrostatic Mud	1639	1639	PSI



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Company Burge, Inc. P. O. Box 1599 (316) 838-0601 Lease & Well No. Zamrzla #1
Elevation 1795 Ground Level Formation Arbuckle Effective Pay ----- Ft. Ticket No. 857
Date 5/16/78 Sec. 13 Twp. 15S Range 11W County Russell State Kansas
Test Approved by Toby Elster Western Representative Vernon Wondra
Formation Test No. 2 Interval Tested from 3320' ft. to 3327' ft. Total Depth 3327' ft.
Packer Depth 3315 ft. Size 6 3/4 in. Packer Depth ----- ft. Size ----- in.
Packer Depth 3320 ft. Size 6 3/4 in. Packer Depth ----- ft. Size ----- in.
Depth of Selective Zone Set -----
Top Recorder Depth (Inside) 3308 ft. Recorder Number 1563 Cap. 4200
Bottom Recorder Depth (Outside) 3321 ft. Recorder Number 1565 Cap. 3150
Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. --
Drilling Contractor Emphasis Rig #1 Drill Collar Length 125 I. D. 2 1/4 in.
Mud Type starch Viscosity 42 Weight Pipe Length -- I. D. -- in.
Weight 10.1 Water Loss 7.6 cc. Drill Pipe Length 3169 I. D. 3.8 in.
Chlorides 76,000 P.P.M. Test Tool Size 5 1/2 OD in. Tool Joint Size 4 1/2 FH in.
Jars: Make ----- Serial Number ----- Anchor Length 7 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 length 26'

Blow: Very weak blow. Died in thirteen minutes.

Recovered 45 ft. of mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 12:30 A.M. Time Started Off Bottom 3:00 P.M. Maximum Temperature 100
Initial Hydrostatic Pressure (A) 1882 P.S.I.
Initial Flow Period Minutes 30 (B) 56 P.S.I. to (C) 40 P.S.I.
Initial Closed In Period Minutes 45 (D) 1038 P.S.I.
Final Flow Period Minutes 30 (E) 63 P.S.I. to (F) 42 P.S.I.
Final Closed In Period Minutes 45 (G) 1022 P.S.I.
Final Hydrostatic Pressure (H) 1861 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 5/16/78

Test Ticket No. 857

Recorder No. 1563

Capacity 4200

Location 3308

Clock No. -----

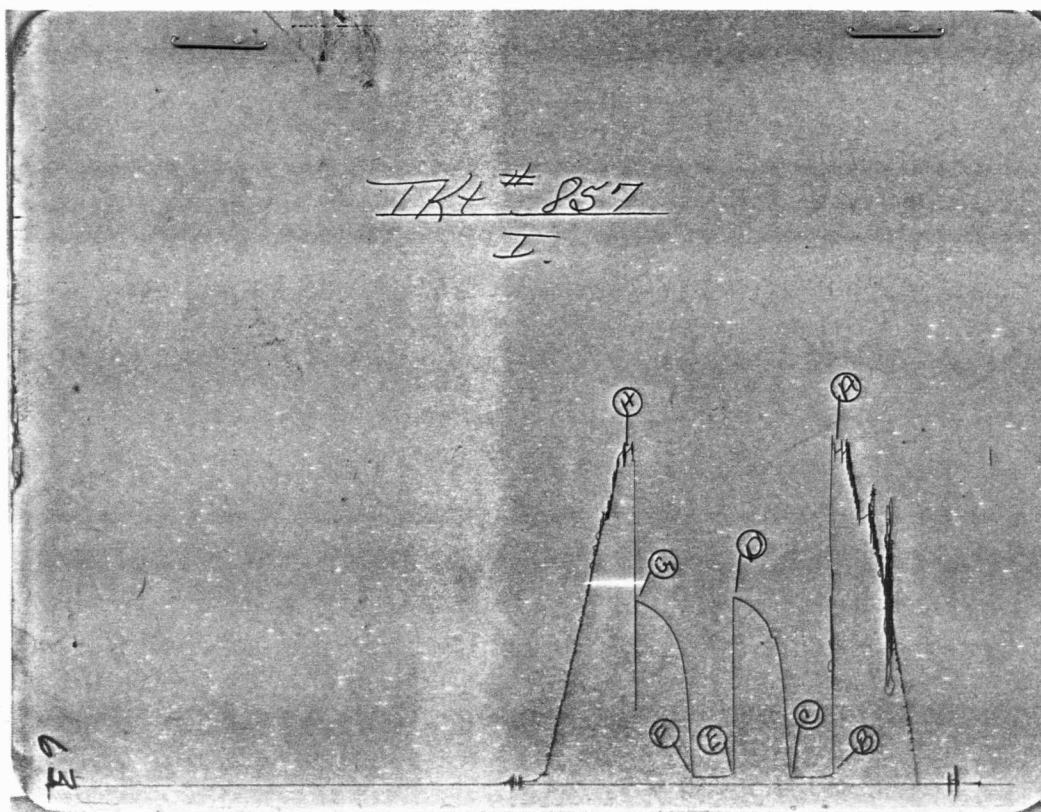
Elevation 1795 Ground Level

Well Temperature 100

Point	Pressure			Time Given	Time Computed
A Initial Hydrostatic Mud	1882	P.S.I.	Open Tool	12:30A M	
B First Initial Flow Pressure	56	P.S.I.	First Flow Pressure	30 Mins.	30 Min
C First Final Flow Pressure	40	P.S.I.	Initial Closed-in Pressure	45 Mins.	42 Min
D Initial Closed-in Pressure	1038	P.S.I.	Second Flow Pressure	30 Mins.	30 Min
E Second Initial Flow Pressure	63	P.S.I.	Final Closed-in Pressure	45 Mins.	45 Min
F Second Final Flow Pressure	42	P.S.I.			
G Final Closed-in Pressure	1022	P.S.I.			
H Final Hydrostatic Mud	1861	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>14</u> Inc.		Breakdown: <u>6</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>56</u>	<u>0</u>	<u>40</u>	<u>0</u>	<u>63</u>	<u>0</u>	<u>42</u>
P 2 <u>5</u>	<u>45</u>	<u>3</u>	<u>252</u>	<u>5</u>	<u>47</u>	<u>3</u>	<u>334</u>
P 3 <u>10</u>	<u>41</u>	<u>6</u>	<u>579</u>	<u>10</u>	<u>43</u>	<u>6</u>	<u>583</u>
P 4 <u>15</u>	<u>40</u>	<u>9</u>	<u>723</u>	<u>15</u>	<u>42</u>	<u>9</u>	<u>701</u>
P 5 <u>20</u>	<u>40</u>	<u>12</u>	<u>811</u>	<u>20</u>	<u>42</u>	<u>12</u>	<u>781</u>
P 6 <u>25</u>	<u>40</u>	<u>15</u>	<u>834</u>	<u>25</u>	<u>42</u>	<u>15</u>	<u>832</u>
P 7 <u>30</u>	<u>40</u>	<u>18</u>	<u>896</u>	<u>30</u>	<u>42</u>	<u>18</u>	<u>874</u>
P 8		<u>21</u>	<u>923</u>			<u>21</u>	<u>904</u>
P 9		<u>24</u>	<u>949</u>			<u>24</u>	<u>928</u>
P10		<u>27</u>	<u>974</u>			<u>27</u>	<u>947</u>
P11		<u>30</u>	<u>991</u>			<u>30</u>	<u>968</u>
P12		<u>33</u>	<u>1007</u>			<u>33</u>	<u>983</u>
P13		<u>36</u>	<u>1018</u>			<u>36</u>	<u>997</u>
P14		<u>39</u>	<u>1028</u>			<u>39</u>	<u>1008</u>
P15		<u>42</u>	<u>1038</u>			<u>42</u>	<u>1019</u>
P16						<u>45</u>	<u>1022</u>
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1871	1882	PSI
(B) First Initial Flow Pressure	43	56	PSI
(C) First Final Flow Pressure	43	40	PSI
(D) Initial Closed-in Pressure	1027	1038	PSI
(E) Second Initial Flow Pressure	43	63	PSI
(F) Second Final Flow Pressure	43	42	PSI
(G) Final Closed-in Pressure	1016	1022	PSI
(H) Final Hydrostatic Mud	1850	1861	PSI