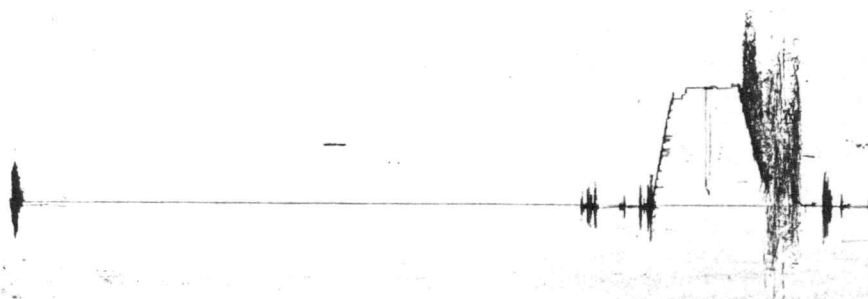


TKT # 1791

Belton, Goodle



TR#1791
I.



Company Zorger Petroleum Lease & Well No. Pudden #1
Elevation 1140 Kelly Bushing Formation Severy Effective Pay -- Ft. Ticket No. 1791
Date 11/27/78 Sec. 33 Twp. 33S Range 6E County Cowley State Kansas
Test Approved by Gerald W. Zorger Western Representative Tim Wilson-Roger Emmons

Formation Test No. 1 Interval Tested from 1306' ft. to 1350' ft. Total Depth 3110' ft.

Packer Depth 1306 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 1350 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 1340 ft.

Recorder Number 1559 Cap. 4200

Bottom Recorder Depth (Outside) 1343 ft.

Recorder Number 1558 Cap. 4200

Below Straddle Recorder Depth 1368-1370 ft.

Recorder Number 35-44 Cap. -

Drilling Contractor White & Ellis #2

Drill Collar Length -- I. D. -- in.

Mud Type chemical Viscosity 42

Weight Pipe Length -- I. D. -- in.

Weight 9.4 Water Loss 10.4 cc.

Drill Pipe Length 1817 I. D. 3.8 in.

Chlorides 1,200 P.P.M.

Test Tool Length 1293 in. Tool Size 5 1/2 in.

Jars: Make -- Serial Number --

Anchor Length 44' 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 FH in.

Blow: Packer seat failure.

Recovered 150 ft. of drilling mud

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

MISRUN

Remarks: Damaged upper packer rubber

Time Set Packer(s) 6:15 AM P.M. Time Started Off Bottom 6:25 AM P.M. Maximum Temperature -

Initial Hydrostatic Pressure - (A) - P.S.I.

Initial Flow Period - Minutes (B) - P.S.I. to (C) - P.S.I.

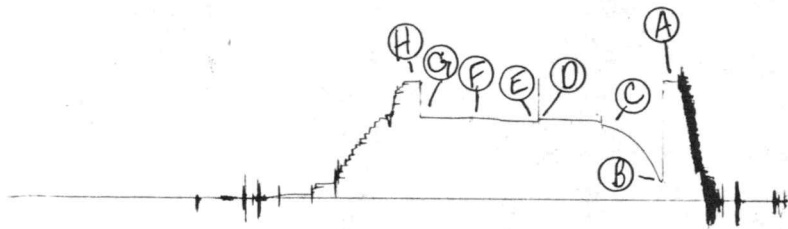
Initial Closed In Period - Minutes (D) - P.S.I.

Final Flow Period - Minutes (E) - P.S.I. to (F) - P.S.I.

Final Closed In Period - Minutes (G) - P.S.I.

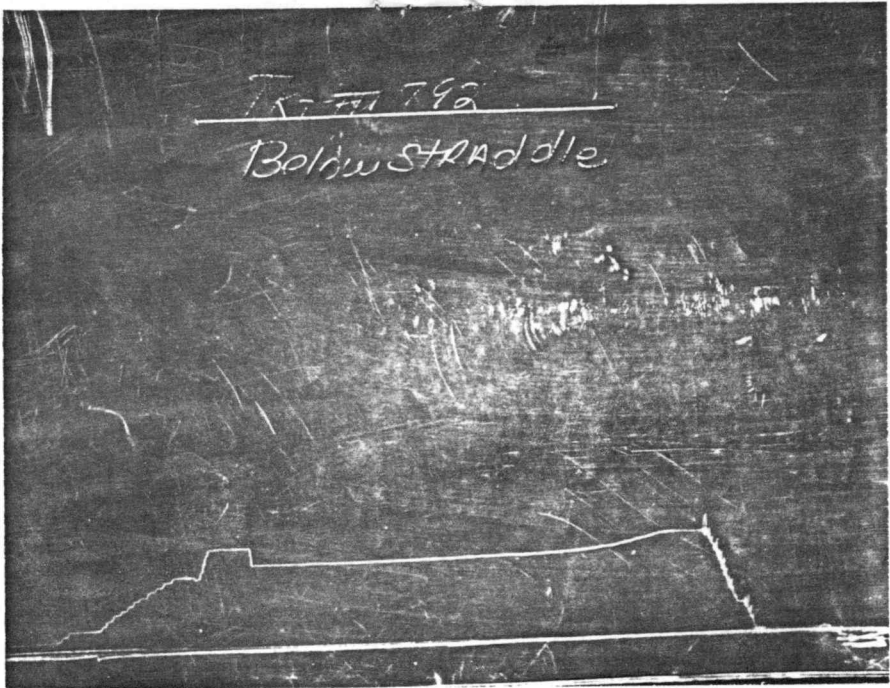
Final Hydrostatic Pressure - (H) - P.S.I.

Tk+ # 1792
I.



TR-44 792

Bolton Straddle



Company Zorger Petroleum Lease & Well No. Pudden #1 Ticket No. 1792
 Elevation 1140 Kelly Bushing Severy Effective Pay -- Ft. -- State Kansas
 Date 11/27/78 Sec. 33 Twp. 33S Range 6E County Cowley
 Test Approved by George W. Zorger Western Representative Tim Wilson-Roger Emmons
 Formation Test No. 2 Interval Tested from 1288' ft. to 1342' ft. Total Depth 3110' ft.
 Packer Depth 1288 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
 Packer Depth 1342 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
 Depth of Selective Zone Set --
 Top Recorder Depth (Inside) 1332 ft. Recorder Number 1559 Cap. 4200
 Bottom Recorder Depth (Outside) 1335 ft. Recorder Number 1558 Cap. 4200
 Below Straddle Recorder Depth 1368-1370 ft. Recorder Number 35-44 Cap. 4500
 Drilling Contractor White & Ellis #2 Drill Collar Length -- I. D. -- in.
 Mud Type chemical Viscosity 42 Weight Pipe Length -- I. D. -- in.
 Weight 9.4 Water Loss 10.4 cc. Drill Pipe Length 1273 I. D. 3.8 in.
 Chlorides 1,200 P.P.M. Test Tool Length 1837 in. Tool Size 5 1/2 in.
 Jars: Make -- Serial Number -- Anchor Length 54 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 FH in.

Blow: Strong decreasing to very weak.

Recovered 90 ft. of watery drilling mud Resistivity: 1.85
 Recovered 360 ft. of muddy water
 Recovered 435 ft. of water
 Recovered ft. of
 Recovered 885 ft. of Total fluid

Remarks:

Time Set Packer(s) 9:23 ~~A.M.~~ P.M. Time Started Off Bottom 12:27 ~~P.M.~~ A.M. Maximum Temperature 79
 Initial Hydrostatic Pressure 652 P.S.I. (A)
 Initial Flow Period 45 Minutes (B) 105 P.S.I. to (C) 412 P.S.I.
 Initial Closed In Period 45 Minutes (D) 440 P.S.I.
 Final Flow Period 45 Minutes (E) 429 P.S.I. to (F) 446 P.S.I.
 Final Closed In Period 45 Minutes (G) 446 P.S.I.
 Final Hydrostatic Pressure 644 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

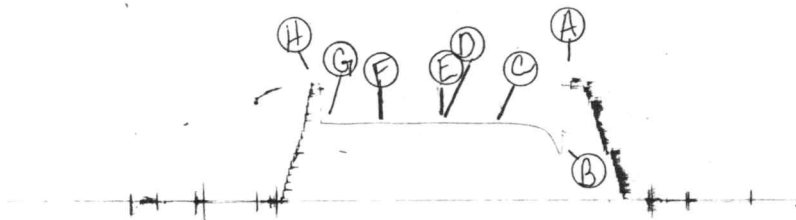
Date 11-27-78 Test Ticket No. 1792
 Recorder No. 1559 Capacity 4200 Location 1332 Ft.
 Clock No. - Elevation 1140 Kelly Bushing Well Temperature 79 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	652	P.S.I.	9:23P.	M
B First Initial Flow Pressure	105	P.S.I.	45	Mins. 45 Mins.
C First Final Flow Pressure	412	P.S.I.	45	Mins. 45 Mins.
D Initial Closed-in Pressure	440	P.S.I.	45	Mins. 45 Mins.
E Second Initial Flow Pressure	429	P.S.I.	45	Mins. 45 Mins.
F Second Final Flow Pressure	446	P.S.I.		
G Final Closed-in Pressure	446	P.S.I.		
H Final Hydrostatic Mud	644	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>9</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>105</u>	<u>0</u>	<u>412</u>	<u>0</u>	<u>429</u>	<u>0</u>	<u>446</u>
P 2 <u>5</u>	<u>157</u>	<u>3</u>	<u>433</u>	<u>5</u>	<u>430</u>	<u>3</u>	<u>446</u>
P 3 <u>10</u>	<u>224</u>	<u>6</u>	<u>437</u>	<u>10</u>	<u>430</u>	<u>6</u>	<u>446</u>
P 4 <u>15</u>	<u>279</u>	<u>9</u>	<u>437</u>	<u>15</u>	<u>430</u>	<u>9</u>	<u>446</u>
P 5 <u>20</u>	<u>318</u>	<u>12</u>	<u>437</u>	<u>20</u>	<u>430</u>	<u>12</u>	<u>446</u>
P 6 <u>25</u>	<u>349</u>	<u>15</u>	<u>437</u>	<u>25</u>	<u>432</u>	<u>15</u>	<u>446</u>
P 7 <u>30</u>	<u>373</u>	<u>18</u>	<u>437</u>	<u>30</u>	<u>439</u>	<u>18</u>	<u>446</u>
P 8 <u>35</u>	<u>391</u>	<u>21</u>	<u>437</u>	<u>35</u>	<u>442</u>	<u>21</u>	<u>446</u>
P 9 <u>40</u>	<u>403</u>	<u>24</u>	<u>439</u>	<u>40</u>	<u>444</u>	<u>24</u>	<u>446</u>
P10 <u>45</u>	<u>412</u>	<u>27</u>	<u>439</u>	<u>45</u>	<u>446</u>	<u>27</u>	<u>446</u>
P11		<u>30</u>	<u>440</u>			<u>30</u>	<u>446</u>
P12		<u>33</u>	<u>440</u>			<u>33</u>	<u>446</u>
P13		<u>36</u>	<u>440</u>			<u>36</u>	<u>446</u>
P14		<u>39</u>	<u>440</u>			<u>39</u>	<u>446</u>
P15		<u>42</u>	<u>440</u>			<u>42</u>	<u>446</u>
P16		<u>45</u>	<u>440</u>			<u>45</u>	<u>446</u>
P17							
P18							
P19							
P20							

TKt# 1793
I.



TKA # 1793

Below straddle

Company Zorger Petroleum Lease & Well No. Pudden #1
Elevation 1140 Kelly Bushing Formation Severy Effective Pay -- Ft. Ticket No. 1793
Date 11/28/78 Sec. 33 Twp. 33S Range 6E County Cowley State Kansas
Test Approved by G. Zorger Western Representative Tim Wilson-Roger Emmons

Formation Test No. 3 Interval Tested from 1258 ft. to 1286 ft. Total Depth 3110 ft.

Packer Depth 1258 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 1286 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 1276 ft. Recorder Number 1559 Cap. 4200

Bottom Recorder Depth (Outside) 1279 ft. Recorder Number 1558 Cap. 4200

Below Straddle Recorder Depth 1306-1308 ft. Recorder Number 35-44 Cap. 4500

Drilling Contractor White & Ellis #2 Drill Collar Length -- I. D. -- in.

Mud Type chemical Viscosity 42 Weight Pipe Length -- I. D. -- in.

Weight 9.4 Water Loss 10.4 cc. Drill Pipe Length 1243 I. D. 3.8 in.

Chlorides 1200 P.P.M. Test Tool Length 1867 in. Tool Size 5 1/2 in.

Jars: Make -- Serial Number -- Anchor Length 28 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 FH in.

Blow: Strong decreasing to very weak

Recovered 120 ft. of muddy water

Recovered 808 ft. of water Resistivity 1.6

Recovered ft. of

Recovered 928 ft. of total fluid

Recovered ft. of

Remarks:

Time Set Packer(s) 5:36 ~~==P.M.~~ ^{A.M.} Time Started Off Bottom 8:40 ~~P.M.~~ ^{A.M.} Maximum Temperature 85

Initial Hydrostatic Pressure (A) 643 P.S.I.

Initial Flow Period Minutes 45 (B) 255 P.S.I. to (C) 422 P.S.I.

Initial Closed In Period Minutes 45 (D) 424 P.S.I.

Final Flow Period Minutes 45 (E) 424 P.S.I. to (F) 424 P.S.I.

Final Closed In Period Minutes 45 (G) 423 P.S.I.

Final Hydrostatic Pressure (H) 641 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

1793

Date 11/28/78

Test Ticket No. 1276

Recorder No. 1559

Capacity 4200

Location _____ Ft.

Clock No. -- Elevation 1140 Kelly Bushing

Well Temperature 85 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	643 P.S.I.	Open Tool	5:30 A	M
B First Initial Flow Pressure	255 P.S.I.	First Flow Pressure	45 Mins.	45 Mins.
C First Final Flow Pressure	422 P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
D Initial Closed-in Pressure	424 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	424 P.S.I.	Final Closed-in Pressure	45 Mins.	45 Mins.
F Second Final Flow Pressure	424 P.S.I.			
G Final Closed-in Pressure	423 P.S.I.			
H Final Hydrostatic Mud	641 P.S.I.			

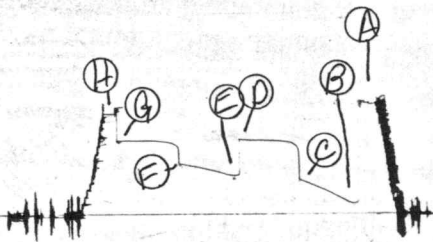
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>9</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>255</u>	<u>0</u>	<u>422</u>	<u>0</u>	<u>424</u>	<u>0</u>	<u>424</u>
P 2 <u>5</u>	<u>307</u>	<u>3</u>	<u>422</u>	<u>5</u>	<u>424</u>	<u>3</u>	<u>424</u>
P 3 <u>10</u>	<u>366</u>	<u>6</u>	<u>422</u>	<u>10</u>	<u>424</u>	<u>6</u>	<u>424</u>
P 4 <u>15</u>	<u>391</u>	<u>9</u>	<u>422</u>	<u>15</u>	<u>423</u>	<u>9</u>	<u>424</u>
P 5 <u>20</u>	<u>403</u>	<u>12</u>	<u>422</u>	<u>20</u>	<u>422</u>	<u>12</u>	<u>424</u>
P 6 <u>25</u>	<u>411</u>	<u>15</u>	<u>422</u>	<u>25</u>	<u>422</u>	<u>15</u>	<u>424</u>
P 7 <u>30</u>	<u>417</u>	<u>18</u>	<u>422</u>	<u>30</u>	<u>422</u>	<u>18</u>	<u>422</u>
P 8 <u>35</u>	<u>420</u>	<u>21</u>	<u>422</u>	<u>35</u>	<u>422</u>	<u>21</u>	<u>422</u>
P 9 <u>40</u>	<u>421</u>	<u>24</u>	<u>422</u>	<u>40</u>	<u>423</u>	<u>24</u>	<u>422</u>
P10 <u>45</u>	<u>422</u>	<u>27</u>	<u>422</u>	<u>45</u>	<u>424</u>	<u>27</u>	<u>422</u>
P11 _____	_____	<u>30</u>	<u>422</u>	_____	_____	<u>30</u>	<u>422</u>
P12 _____	_____	<u>33</u>	<u>424</u>	_____	_____	<u>33</u>	<u>423</u>
P13 _____	_____	<u>36</u>	<u>424</u>	_____	_____	<u>36</u>	<u>423</u>
P14 _____	_____	<u>39</u>	<u>424</u>	_____	_____	<u>39</u>	<u>423</u>
P15 _____	_____	<u>42</u>	<u>424</u>	_____	_____	<u>42</u>	<u>423</u>
P16 _____	_____	<u>45</u>	<u>424</u>	_____	_____	<u>45</u>	<u>423</u>
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____

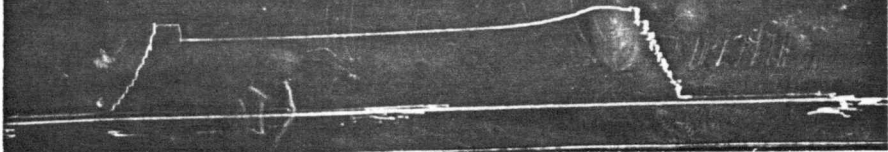
1551

TR-#1794

I.



TK4#1794
Below Staddle



Company Zorger Petroleum Lease & Well No. Pudden #1
Elevation 1140 Kelly Bush Formation Severy Effective Pay - Ft. Ticket No. 1794
Date 11-28-78 Sec. 33 Twp. 33S Range 6E County Cowley State Kansas
Test Approved by Gerald Zorger Western Representative Tim Wilson

Formation Test No. 4 Interval Tested from 1180 ft. to 1258 ft. Total Depth 3110 ft.

Packer Depth 1180 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 1258 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 1248 ft.

Recorder Number 1559 Cap. 4200

Bottom Recorder Depth (Outside) 1251 ft.

Recorder Number 1558 Cap. 4200

Below Straddle Recorder Depth 1275-1277 ft.

Recorder Number 35-44 Cap. 4500

Drilling Contractor White & Ellis Drlg. (#2)

Drill Collar Length - I. D. - in.

Mud Type Chem Viscosity 42

Weight Pipe Length - I. D. - in.

Weight 9.4 Water Loss 10.4 cc.

Drill Pipe Length 1166 I. D. 3.8 in.

Chlorides 1,200 P.P.M.

Test Tool Length 1944 in. Tool Size 5 1/2 OD in.

Jars: Make - Serial Number -

Anchor Length 78 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: Strong blow decreasing to a weak blow.

Recovered 120 ft. of watery drilling mud Resistivity: 1.4

Recovered 750 ft. of muddy water

Recovered - ft. of -

Recovered 870 ft. of total fluid

Recovered - ft. of -

Remarks: -

Time Set Packer(s) 11:56 A.M. Time Started Off Bottom 3:00 -A.M.- Maximum Temperature 85
P.M. P.M.

Initial Hydrostatic Pressure (A) 611 P.S.I.

Initial Flow Period Minutes 45 (B) 64 P.S.I. to (C) 186 P.S.I.

Initial Closed In Period Minutes 45 (D) 406 P.S.I.

Final Flow Period Minutes 45 (E) 219 P.S.I. to (F) 275 P.S.I.

Final Closed In Period Minutes 45 (G) 401 P.S.I.

Final Hydrostatic Pressure (H) 562 P.S.I.

Pressure Data

Final Hydrostatic Mud _____ 562 _____ P.S.I.

final inc. of 0 Min.

Press.

WTC - 4