



Home Office: Great Bend, Kansas
 P. O. Box 793 Swift 3-7903

Company Zenith Drilling Corporation Lease & Well No. Wilson #1
 Elevation 2062 Kelly Bushings Formation Cherokee Sand Ticket Number 7611
 Date May 27, 1966 Sec. 23 Twp. 18s Range 20w County Rush State Kansas
 Test Approved by Gordon W. Keen Western Representative Dean Blagrave

Formation Test No. 1 O.K. Misrun Interval Tested From 3952' to 3988' Total Depth 3988'
 Size Main Hole 7 7/8 Rat Hole none Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Packer Depth 3952 Ft. Size 6 3/4 Packer Depth Ft. Size
 Straddle Yes No Conv. B.T. Damaged Yes No

Tool Size 5 1/2 OD Tool Jt. Size 4 1/2 FH Anchor Length 36 Ft. Size 5 1/2 OD

RECORDERS Depth 3956 Ft. Clock No. 6892 Depth 3959 Ft. Clock No. 6774
 Top Make Kuster Cap. 4150 No. 2606 Inside Outside Bottom Make Kuster Cap. 4300 No. 1567 Inside Outside
 Below Straddle: Depth Clock No. Inside Outside Depth Ft. Clock No. Inside Outside
 Top Make Cap. No. Inside Outside Bottom Make Cap. No. Inside Outside

Time Set Packer 9:08 A M
 Tool Open I.F.P. From 9:10A M to 9:15 M Hr. 5 Min. From (B) 35 P.S.I. To (C) 35 P.S.I.
 Tool Closed I.C.I.P. From 9:15 M. to 9:45 M. Hr. 30 Min. (D) 1139 P.S.I.
 Tool Open F.F.P. From 9:45 M. to 10:45 M. 1 Hr. Min. From (E) 39 P.S.I. To (F) 48 P.S.I.
 Tool Closed F.C.I.P. From 10:45 M. to 11:15 M. Hr. 30 Min. (G) 656 P.S.I.
 Initial Hydrostatic Pressure (A) 2132 P.S.I. Final Hydrostatic Pressure (H) 2136 P.S.I.

SURFACE Size Choke 1/4 In. Max. Press. P.S.I. Time Description of Flow
 INFORMATION M.
 M.
 M.

BLOW WEak for six minutes. Bottom Choke Size 3/4 In.
 Did Well Flow Yes No Recovery Total Ft. 10' mud with oil spots

Reversed Out Yes No Mud Type starch Viscosity 45 Weight 9.7 Maximum Temp. 113 °F

EXTRA EQUIPMENT: Dual Packers no Safety Joint no Jars: Size no Make Ser. No.
 Type Circ. Sub. plug Did Tool Plug? no Where? Did Packer Hold? yes
 Length Drill Pipe ft. I.D. Drill Pipe 3.8 in Length Weight Pipe 1130 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars none ft.
 I. D. Drill Collars in. Length D.S.T. Tool 49 ft.

Remarks

WESTERN TESTING CO., INC.
Pressure Data

Date May 27, 1966

Test Ticket No. 7611

Recorder No. 2606

Capacity 4150

Location 3956 Ft.

Clock No. 6892

Elevation 2062 Kelly Bushings

Well Temperature 113 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2132</u> P.S.I.	Opened Tool	<u>9:10 A</u> M	<u>9:10AM</u>
B First Initial Flow Pressure	<u>35</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>7</u> Mins.
C First Final Flow Pressure	<u>35</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1139</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>39</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>48</u> P.S.I.			
G Final Closed-in Pressure	<u>656</u> P.S.I.			
H Final Hydrostatic Mud	<u>2136</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Press.

Breakdown: 1 Inc.
of 5 mins. and a
final inc. of 2 Min.

Initial Shut-In

Breakdown: 10 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.

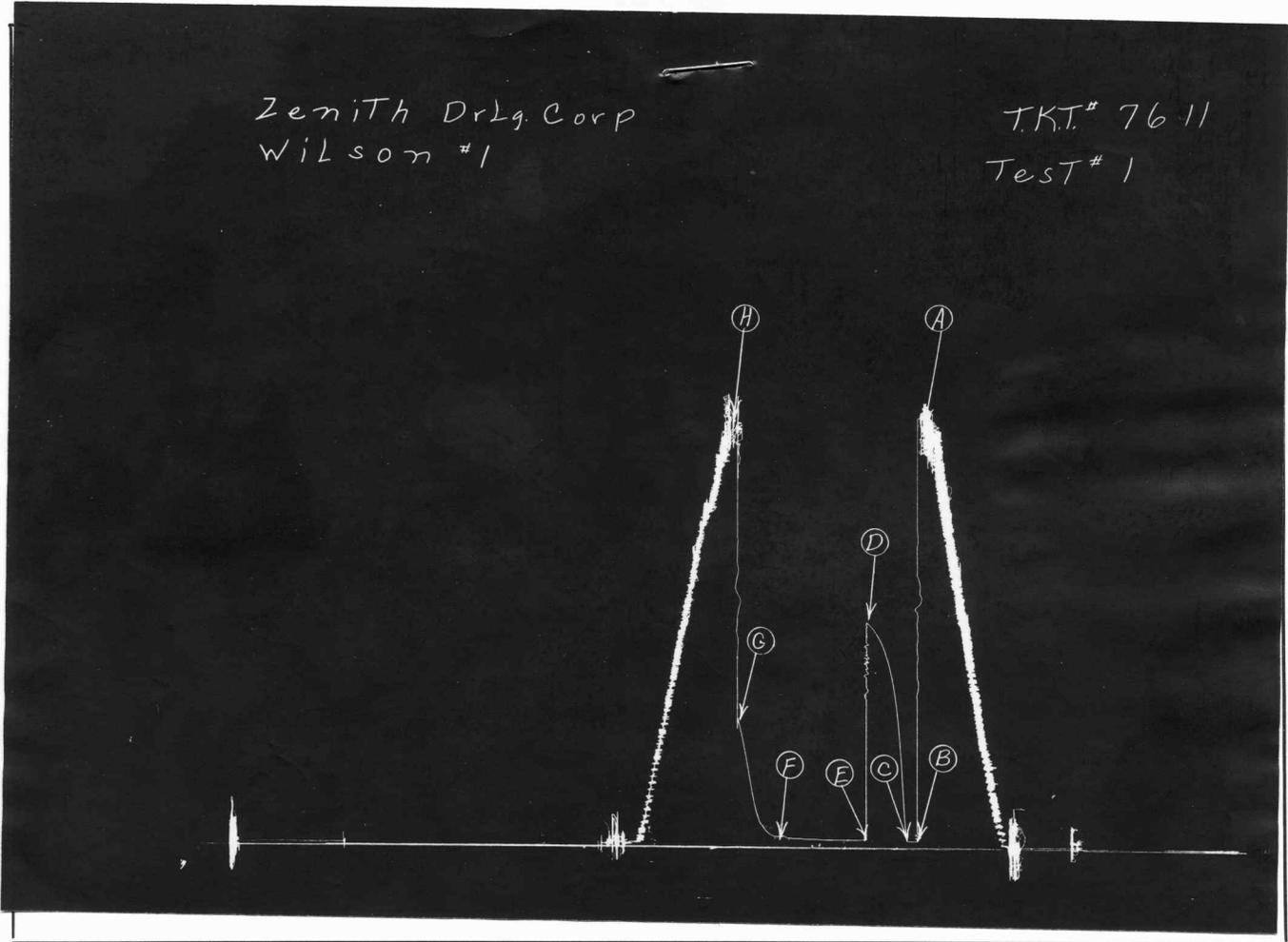
Final Shut-In

Breakdown: 10 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>35</u>	<u>0</u>	<u>35</u>	<u>0</u>	<u>39</u>	<u>0</u>	<u>48</u>
P 2 <u>5</u>	<u>35</u>	<u>3</u>	<u>260</u>	<u>5</u>	<u>39</u>	<u>3</u>	<u>51</u>
P 3 <u>7</u>	<u>35</u>	<u>6</u>	<u>508</u>	<u>10</u>	<u>39</u>	<u>6</u>	<u>55</u>
P 4		<u>9</u>	<u>715</u>	<u>15</u>	<u>39</u>	<u>9</u>	<u>73</u>
P 5		<u>12</u>	<u>854</u>	<u>20</u>	<u>39</u>	<u>12</u>	<u>97</u>
P 6		<u>15</u>	<u>946</u>	<u>25</u>	<u>39</u>	<u>15</u>	<u>131</u>
P 7		<u>18</u>	<u>1004</u>	<u>30</u>	<u>41</u>	<u>18</u>	<u>204</u>
P 8		<u>21</u>	<u>1057</u>	<u>35</u>	<u>41</u>	<u>21</u>	<u>295</u>
P 9		<u>24</u>	<u>1093</u>	<u>40</u>	<u>41</u>	<u>24</u>	<u>431</u>
P10		<u>27</u>	<u>1120</u>	<u>45</u>	<u>43</u>	<u>27</u>	<u>541</u>
P11		<u>30</u>	<u>1139</u>	<u>50</u>	<u>43</u>	<u>30</u>	<u>656</u>
P12				<u>55</u>	<u>45</u>		
P13				<u>60</u>	<u>48</u>		
P14							
P15							
P16							
P17							
P18							
P19							
P20							

Zenith Drilling Corp
Wilson #1

T.K.T.# 7611
Test # 1



This is an actual photograph of recorder chart.

POINT	PRESSURE	PSI
(A) Initial Hydrostatic Mud	2132	PSI
(B) First Initial Flow Pressure	35	PSI
(C) First Final Flow Pressure	35	PSI
(D) Initial Closed-in Pressure	1139	PSI
(E) Second Initial Flow Pressure	39	PSI
(F) Second Final Flow Pressure	48	PSI
(G) Final Closed-in Pressure	656	PSI
(H) Final Hydrostatic Mud	2136	PSI

COMPANY ZENITH DRILLING CORPORATION LEASE AND WELL NO. SEC. TWP. RGE. TEST NO. DATE



Home Office: Great Bend, Kansas
P. O. Box 793 Swift 3-7903

Zenith Drilling Corporation

Wilson #1

Company _____ Lease & Well No. _____
Elevation 2062 Kelly Bushings Formation Cherokee Ticket Number 7612
Date May 28, 1966 Sec. 23 Twp. 18s Range 23w County Rush State Kansas
Test Approved by Gordon W. Keen Western Representative Dean Blagrave

Formation Test No. 2 O.K. Misrun _____ Interval Tested From 3977' 4009' Total Depth 4009'
Size Main Hole 7 7/8 Rat Hole none Conv. B.T. _____ Damaged _____ Yes No Conv. _____ B.T. _____ Damaged _____ Yes _____ No
Packer Depth 3977 Ft. Size 6 3/4 Packer Depth _____ Ft. Size _____
Straddle _____ Yes No _____ Conv. _____ B.T. _____ Damaged _____ Yes _____ No
Packer Depth _____ Ft. Size _____
Tool Size 5 1/2 OD Tool Jr. Size 4 1/2 FH Anchor Length 32 Ft. Size 5 1/2 OD

RECORDERS Depth 3981 Ft. Clock No. 6892 Depth 3984 Ft. Clock No. 6774
Top Make Kuster Cap. 4150 No. 2606 ~~Inside~~ Outside Bottom Make Kuster Cap. 4300 No. 1567 ~~Inside~~ Outside
Below Straddle: Depth _____ Clock No. _____ Inside Depth _____ Ft. Clock No. _____ Outside
Top Make _____ Cap. _____ No. _____ Inside Bottom Make _____ Cap. _____ No. _____ Outside

Time Set Packer 12:48 A M
Tool Open I.F.P. From 12:50 M to 12:55 M Hr. 5 Min. From (B) _____ P.S.I. To (C) _____ P.S.I.
Tool Closed I.C.I.P. From 12:55 M. to 1:25 M. Hr. 30 Min. (D) _____ 1155 P.S.I.
Tool Open F.F.P. From 1:25 M. to 2:25 M. 1 Hr. Min. From (E) _____ P.S.I. To (F) _____ P.S.I.
Tool Closed F.C.I.P. From 2:25 M. to 2:55 M. Hr. 30 Min. (G) _____ 821 P.S.I.
Initial Hydrostatic Pressure (A) 2158 P.S.I. Final Hydrostatic Pressure (H) 2144 P.S.I.

SURFACE Size Choke 1/4 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____

BLOW Weak for five minutes. Bottom Choke Size 3/4 In.
Did Well Flow _____ Yes No _____ Recovery Total Ft. 5 Feet mud with few oil spots

Reversed Out _____ Yes No _____ Mud Type starch Viscosity 45 Weight 9.8 Maximum Temp. 114 °F
EXTRA EQUIPMENT: Dual Packers no Safety Joint no Jars: Size no Make _____ Ser. No. _____
Type Circ. Sub. plug Did Tool Plug? no Where? _____ Did Packer Hold? yes
Length Drill Pipe _____ ft. I.D. Drill Pipe _____ in Length Weight Pipe 1130 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars none ft.
I. D. Drill Collars _____ in. Length D.S.T. Tool 45 ft.

Remarks

WESTERN TESTING CO., INC.
Pressure Data

Date May 28, 1966 Test Ticket No. 7612
 Recorder No. 2606 Capacity 4150 Location 3981 Ft.
 Clock No. 6892 Elevation 2062 Kelly Bushings Well Temperature 114 °F

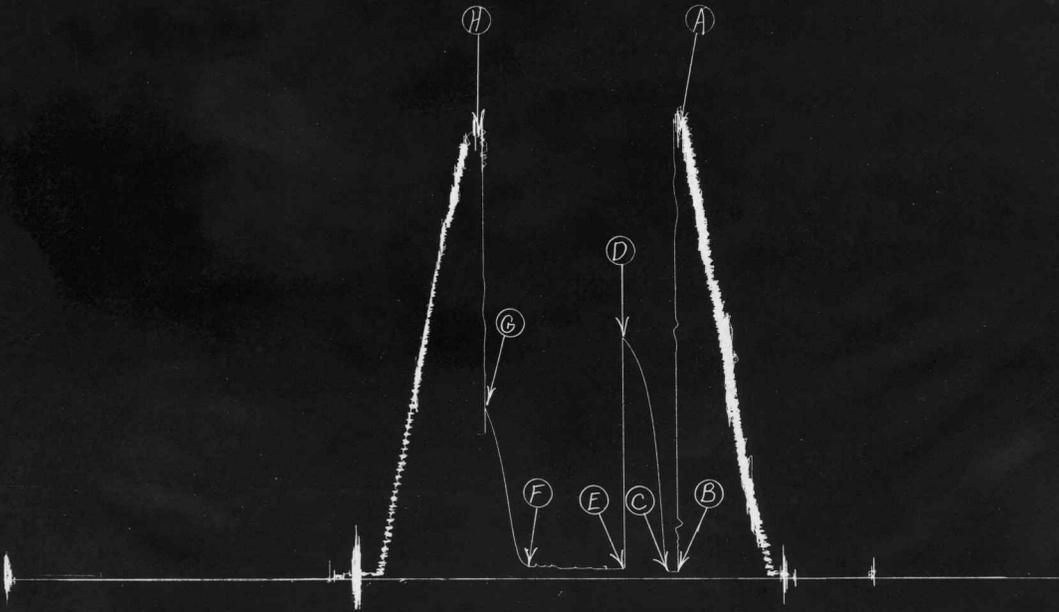
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2158	P.S.I.	12:50	12:50
B First Initial Flow Pressure	33	P.S.I.	5 Mins.	6 Mins.
C First Final Flow Pressure	33	P.S.I.	30 Mins.	30 Mins.
D Initial Closed-in Pressure	1155	P.S.I.	60 Mins.	60 Mins.
E Second Initial Flow Pressure	41	P.S.I.	30 Mins.	30 Mins.
F Second Final Flow Pressure	49	P.S.I.		
G Final Closed-in Pressure	821	P.S.I.		
H Final Hydrostatic Mud	2144	P.S.I.		

PRESSURE BREAKDOWN

First Flow Press.		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>1</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>1</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>0</u>	<u>33</u>	<u>0</u>	<u>41</u>	<u>0</u>	<u>49</u>
P 2	<u>5</u>	<u>3</u>	<u>118</u>	<u>5</u>	<u>41</u>	<u>3</u>	<u>68</u>
P 3	<u>6</u>	<u>6</u>	<u>312</u>	<u>10</u>	<u>41</u>	<u>6</u>	<u>85</u>
P 4		<u>9</u>	<u>682</u>	<u>15</u>	<u>41</u>	<u>9</u>	<u>154</u>
P 5		<u>12</u>	<u>810</u>	<u>20</u>	<u>41</u>	<u>12</u>	<u>262</u>
P 6		<u>15</u>	<u>921</u>	<u>25</u>	<u>45</u>	<u>15</u>	<u>412</u>
P 7		<u>18</u>	<u>993</u>	<u>30</u>	<u>43</u>	<u>18</u>	<u>564</u>
P 8		<u>21</u>	<u>1051</u>	<u>35</u>	<u>43</u>	<u>21</u>	<u>661</u>
P 9		<u>24</u>	<u>1093</u>	<u>40</u>	<u>43</u>	<u>24</u>	<u>723</u>
P10		<u>27</u>	<u>1126</u>	<u>45</u>	<u>47</u>	<u>27</u>	<u>787</u>
P11		<u>30</u>	<u>1155</u>	<u>50</u>	<u>47</u>	<u>30</u>	<u>821</u>
P12				<u>55</u>	<u>49</u>		
P13				<u>60</u>	<u>49</u>		
P14							
P15							
P16							
P17							
P18							
P19							
P20							

Zenith DrLg. Corp
Wilson #1

T.K.T. # 7612
Test #2



This is an actual photograph of recorder chart.

POINT	PRESSURE	
(A) Initial Hydrostatic Mud	2158	PSI
(B) First Initial Flow Pressure	33	PSI
(C) First Final Flow Pressure	33	PSI
(D) Initial Closed-in Pressure	1155	PSI
(E) Second Initial Flow Pressure	41	PSI
(F) Second Final Flow Pressure	49	PSI
(G) Final Closed-in Pressure	821	PSI
(H) Final Hydrostatic Mud	2144	PSI