

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

Company Pickrell Drilling Company Lease & Well No. Brack #1
Elevation 2032 Kelly Bushings Formation Topeka Ticket Number 4547
Date Aug. 26, 1965 Sec. 16 Twp. 17 Range 16 County Rush State Kansas
Test Approved by Ralph W. Ruwwe Western Representative W. M. Nething

Formation Test No. 1 O.K. Misrun Interval Tested From 2987' to 3070' Total Depth 3070'
Size Main Hole 7 7/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
Packer Depth 2977 Ft. Size 6 3/4 Packer Depth 2972 Ft. Size 6 3/4
Straddle Yes No Conv. B.T. Damaged Yes No

Tool Size 5 1/2 OD Tool Jt. Size 4 1/2 FH Anchor Length 93 Ft. Size 5 1/2 OD & 6" D.C.

RECORDERS Depth 2987 Ft. Clock No. 6896 Depth 2989 Ft. Clock No. 142
Top Make Amerada Cap. 3150 No. 1560 Inside Outside Bottom Make Western Cap. 4000 No. 17 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 9:33 P M
Tool Open I.F.P. From 9:36P M to 9:46P M Hr. 10 Min. From (B) 26 P.S.I. To (C) 26 P.S.I.
Tool Closed I.C.I.P. From 9:46P M. to 10:16 M. Hr. 30 Min. (D) 755 P.S.I.
Tool Open F.F.P. From 10:16P M. to 11:16 M. Hr. 60 Min. From (E) 26 P.S.I. To (F) 31 P.S.I.
Tool Closed F.C.I.P. From 11:16 M. to 11:46 M. Hr. 30 Min. (G) 863 P.S.I.
Initial Hydrostatic Pressure (A) 1666 P.S.I. Final Hydrostatic Pressure (H) 1647 P.S.I.

SURFACE Size Choke 3/8 In. Max. Press. P.S.I. Time Description of Flow
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____

BLOW Fair blow gas to surface 45 minutes too small to measure. Bottom Choke Size 3/4 In.
Did Well Flow Yes No Recovery Total Ft. 60' gas cut mud

Reversed Out Yes No Mud Type starch Viscosity 46 Weight 10.5 Maximum Temp. 108 °F

EXTRA EQUIPMENT: Dual Packers dual Safety Joint no Jars: Size no Make Ser. No.

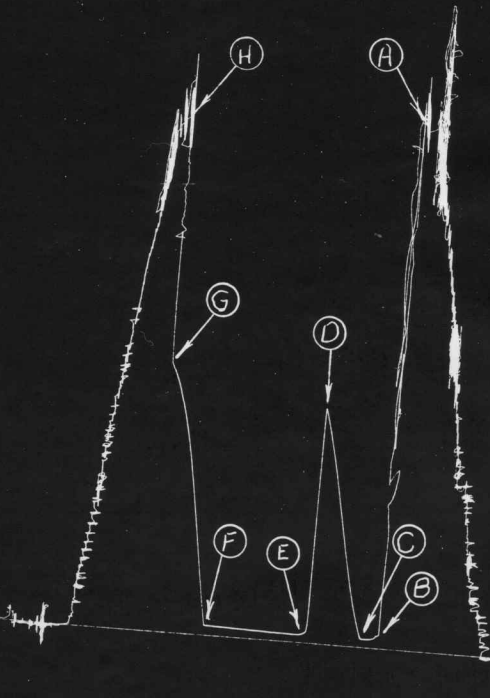
Type Circ. Sub. plug Did Tool Plug? no Where? Did Packer Hold? yes

Length Drill Pipe 1912 ft. I.D. Drill Pipe 3.8 in Length Weight Pipe 1045 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.
I. D. Drill Collars _____ in. Length D.S.T. Tool 113 ft.

Remarks

Pickrell Dring. Co.
Brack #1

Test # 1
TKT # 4547



This is an actual photograph of recorder chart.

POINT	PRESSURE	
(A) Initial Hydrostatic Mud	1666	PSI
(B) First Initial Flow Pressure	26	PSI
(C) First Final Flow Pressure	26	PSI
(D) Initial Closed-in Pressure	755	PSI
(E) Second Initial Flow Pressure	26	PSI
(F) Second Final Flow Pressure	31	PSI
(G) Final Closed-in Pressure	863	PSI
(H) Final Hydrostatic Mud	1647	PSI



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

Company Pickrell Drilling Company Lease & Well No. Brack #1
Elevation 2032 Kelly Bushings Formation K. C. Ticket Number 4548
Date Aug. 28, 1965 Sec. 16 Twp. 17 Range 16 County Rush State Kansas
Test Approved by Ralph W. Ruwe Western Representative W. M. Nething

Formation Test No. 2 O.K. Misrun Interval Tested From 3342' to 3385' Total Depth 3385'
Size Main Hole 7 7/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
Packer Depth 3342 Ft. Size 6 3/4 Packer Depth 3337 Ft. Size 6 3/4
Straddle Yes No Conv. B.T. Damaged Yes No
Packer Depth _____ Ft. Size _____

Tool Size 5 1/2 OD Tool Jt. Size 4 1/2 FH Anchor Length 43 Ft. Size 5 1/2 OD
RECORDERS Depth 3350 Ft. Clock No. 6896 Depth 3353 Ft. Clock No. 6800
Top Make Amerada Cap. 3150 No. 1560 Inside Outside Bottom Make Western Cap. 3150 No. 1564 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 3:36 P M
Tool Open I.F.P. From 3:39 P M to 3:47 M Hr. 8 Min. From (B) 30 P.S.I. To (C) 30 P.S.I.
Tool Closed I.C.I.P. From 3:47 M. to 4:17 M. Hr. 30 Min. (D) 1536 P.S.I.
Tool Open F.F.P. From 4:17 M. to 5:17 M. Hr. 60 Min. From (E) 34 P.S.I. To (F) 45 P.S.I.
Tool Closed F.C.I.P. From 5:17 M. to 5:47 M. Hr. 30 Min. (G) 1392 P.S.I.
Initial Hydrostatic Pressure (A) 2618 P.S.I. Final Hydrostatic Pressure (H) 2607 P.S.I.

SURFACE Size Choke 3/8 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____

BLOW Very weak blow throughout test. Bottom Choke Size 3/4 In.
Did Well Flow Yes No Recovery Total Ft. 20' mud

Reversed Out Yes No Mud Type starch Viscosity 45 Weight 10.4 Maximum Temp. 111 °F

EXTRA EQUIPMENT: Dual Packers dual 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 2277 ft. I.D. Drill Pipe 3.8 in Length Weight Pipe 1045 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.

I. D. Drill Collars _____ in. Length D.S.T. Tool 63 ft.

Remarks _____

WESTERN TESTING CO., INC.

Pressure Data

Date August 28, 1965

Recorder No. 1560 Capacity 3150 Test Ticket No. 4548
 Clock No. 6896 Elevation 2032 Kelley Bushings Location 3350 Ft.
 Well Temperature 111 °F

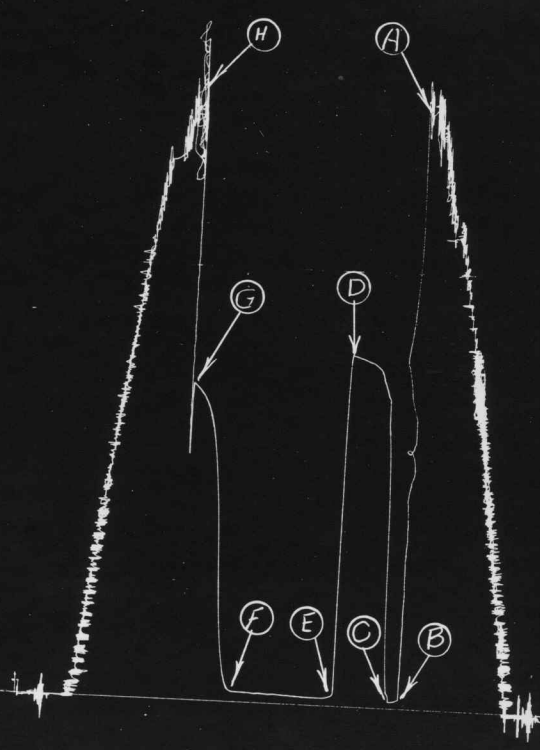
Point	Pressure	P.S.I.	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2618</u>	P.S.I.	<u>3:36 P</u>	<u>M</u>
B First Initial Flow Pressure	<u>30</u>	P.S.I.	<u>8</u> Mins.	<u>8</u> Mins.
C First Final Flow Pressure	<u>30</u>	P.S.I.	<u>30</u> Mins.	<u>29</u> Mins.
D Initial Closed-in Pressure	<u>1536</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>34</u>	P.S.I.	<u>30</u> Mins.	<u>29</u> Mins.
F Second Final Flow Pressure	<u>45</u>	P.S.I.		
G Final Closed-in Pressure	<u>1392</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2607</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Press.		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
Breakdown: <u>1</u> Inc. of <u>5</u> mins. and a final inc. of <u>3</u> Min.		Breakdown: <u>9</u> Inc. of <u>3</u> mins. and a final inc. of <u>2</u> Min.		Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Breakdown: <u>9</u> Inc. of <u>3</u> mins. and a final inc. of <u>2</u> Min.	
P 1	<u>0</u> <u>30</u>	<u>0</u> <u>30</u>	<u>0</u> <u>30</u>	<u>0</u> <u>34</u>	<u>0</u> <u>45</u>	<u>0</u> <u>45</u>	<u>45</u>
P 2	<u>5</u> <u>30</u>	<u>3</u> <u>460</u>	<u>3</u> <u>460</u>	<u>5</u> <u>34</u>	<u>3</u> <u>86</u>	<u>3</u> <u>86</u>	<u>86</u>
P 3	<u>8</u> <u>30</u>	<u>6</u> <u>1221</u>	<u>6</u> <u>1221</u>	<u>10</u> <u>35</u>	<u>6</u> <u>233</u>	<u>6</u> <u>233</u>	<u>233</u>
P 4		<u>9</u> <u>1415</u>	<u>9</u> <u>1415</u>	<u>15</u> <u>35</u>	<u>9</u> <u>570</u>	<u>9</u> <u>570</u>	<u>570</u>
P 5		<u>12</u> <u>1478</u>	<u>12</u> <u>1478</u>	<u>20</u> <u>36</u>	<u>12</u> <u>1000</u>	<u>12</u> <u>1000</u>	<u>1000</u>
P 6		<u>15</u> <u>1500</u>	<u>15</u> <u>1500</u>	<u>25</u> <u>37</u>	<u>15</u> <u>1167</u>	<u>15</u> <u>1167</u>	<u>1167</u>
P 7		<u>18</u> <u>1508</u>	<u>18</u> <u>1508</u>	<u>30</u> <u>38</u>	<u>18</u> <u>1279</u>	<u>18</u> <u>1279</u>	<u>1279</u>
P 8		<u>21</u> <u>1519</u>	<u>21</u> <u>1519</u>	<u>35</u> <u>39</u>	<u>21</u> <u>1331</u>	<u>21</u> <u>1331</u>	<u>1331</u>
P 9		<u>24</u> <u>1528</u>	<u>24</u> <u>1528</u>	<u>40</u> <u>40</u>	<u>24</u> <u>1361</u>	<u>24</u> <u>1361</u>	<u>1361</u>
P10		<u>27</u> <u>1532</u>	<u>27</u> <u>1532</u>	<u>45</u> <u>41</u>	<u>27</u> <u>1385</u>	<u>27</u> <u>1385</u>	<u>1385</u>
P11		<u>29</u> <u>1536</u>	<u>29</u> <u>1536</u>	<u>50</u> <u>42</u>	<u>29</u> <u>1392</u>	<u>29</u> <u>1392</u>	<u>1392</u>
P12				<u>55</u> <u>43</u>			
P13				<u>60</u> <u>45</u>			
P14							
P15							
P16							
P17							
P18							
P19							
P20							

Pickrell Drilling Co.
Brack #1

TEST # 2
TKT # 4548



This is an actual photograph of recorder chart.

POINT	PRESSURE	
(A) Initial Hydrostatic Mud	2618	PSI
(B) First Initial Flow Pressure	30	PSI
(C) First Final Flow Pressure	30	PSI
(D) Initial Closed-in Pressure	1536	PSI
(E) Second Initial Flow Pressure	34	PSI
(F) Second Final Flow Pressure	45	PSI
(G) Final Closed-in Pressure	1392	PSI
(H) Final Hydrostatic Mud	2607	PSI



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

Company Pickrell Drilling Company Lease & Well No. Brack #1
Elevation 2032 Kelly Bushings Formation K. C. Ticket Number 4549
Date Aug. 30, 1965 Sec. 16 Twp. 17 Range 16 County Rush State Kansas
Test Approved by Ralph W. Runwe Western Representative W. M. Netting

Formation Test No. 3 O.K. Misrun _____ Interval Tested From 3516' to 3562' Total Depth 3562'
Size Main Hole 7 7/8 Rat Hole _____ Conv. _____ B.T. Damaged Yes No Conv. _____ B.T. Damaged Yes No
Packer Depth 3516 Ft. Size 6 3/4 Packer Depth 3511 Ft. Size 6 3/4
Straddle Yes No _____ Conv. _____ B.T. _____ Damaged Yes _____ No
Packer Depth _____ Ft. Size _____

Tool Size 5 1/2 OD Tool Jt. Size 4 1/2 FH Anchor Length 46 Ft. Size 5 1/2 OD
RECORDERS Depth 3524 Ft. Clock No. 6896 Depth 3527 Ft. Clock No. 6800
Top Make Amerada Cap. 3150 No. 1560 Inside _____ Outside _____ Bottom Make Western Cap. 3150 No. 1564 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 4:15 A M
Tool Open I.F.P. From 4:18 M to 4:25 M Hr. 7 Min. From (B) 32 P.S.I. To (C) 32 P.S.I.
Tool Closed I.C.I.P. From 4:25 M. to 4:55 M. Hr. 30 Min. (D) 75 P.S.I.
Tool Open F.F.P. From 4:55A M. to 5:40A M. Hr. 45 Min. From (E) 34 P.S.I. To (F) 34 P.S.I.
Tool Closed F.C.I.P. From 5:40 M. to 6:10 M. Hr. 30 Min. (G) 43 P.S.I.
Initial Hydrostatic Pressure (A) 1996 P.S.I. Final Hydrostatic Pressure (H) 1985 P.S.I.

SURFACE Size Choke 3/8 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____

BLOW Weak blow 7 minutes Flushed tool after 20 minutes. Bottom Choke Size 3/4 In.
Did Well Flow Yes No _____ Recovery Total Ft. 5' mud

Reversed Out Yes No _____ Mud Type starch Viscosity 45 Weight 10.3 Maximum Temp. 112 °F

EXTRA EQUIPMENT: Dual Packers dual 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 2451 ft. I.D. Drill Pipe 3.8 in Length Weight Pipe 1045 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.

I. D. Drill Collars _____ in. Length D.S.T. Tool 66 ft.

Remarks

WESTERN TESTING CO., INC.
Pressure Data

Date August 30, 1965 Test Ticket No. 4549
 Recorder No. 1560 Capacity 3150 Location 3524 Ft.
 Clock No. 6896 Elevation 2032 Kelly Bushings Well Temperature 112 °F

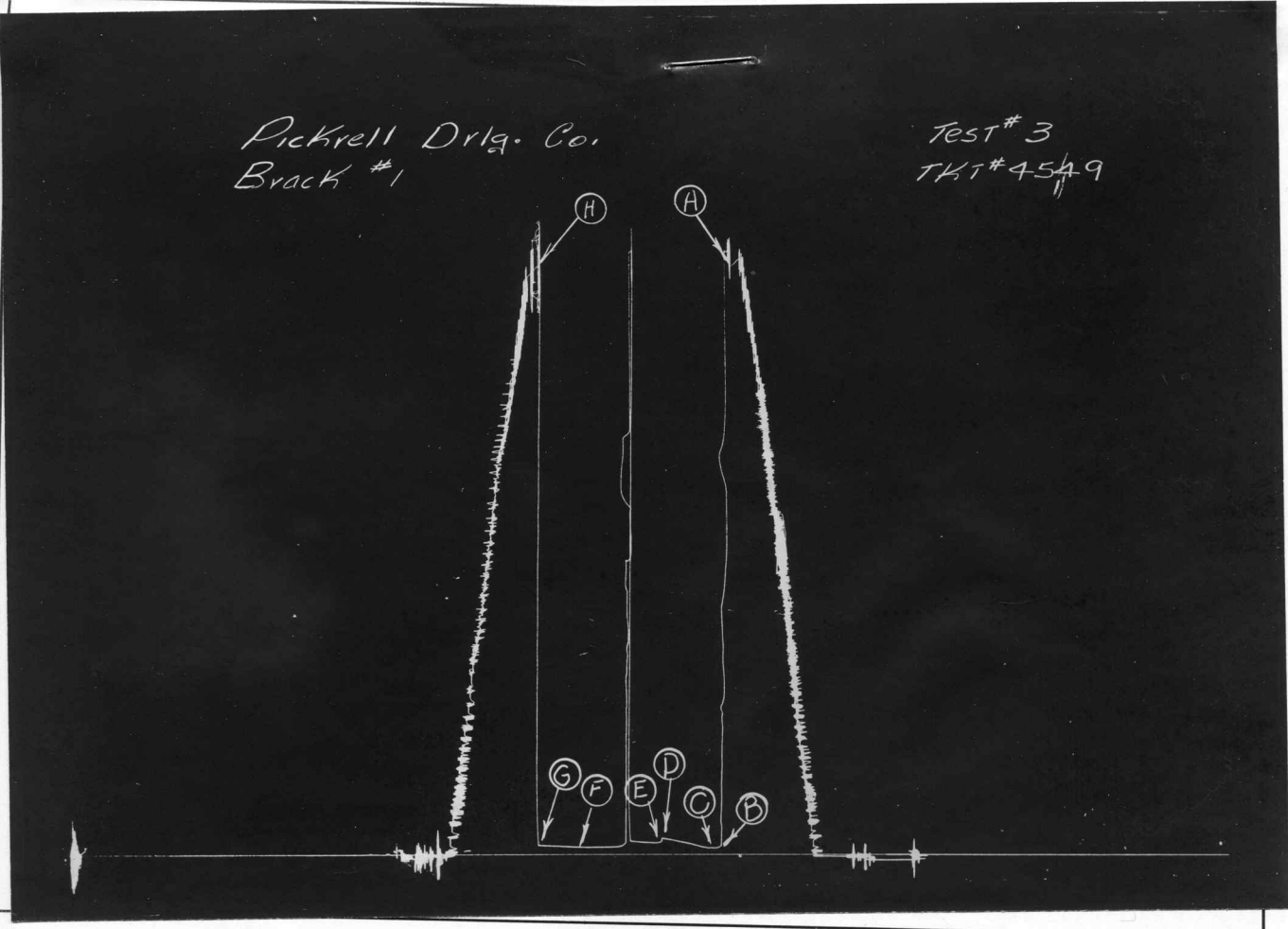
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1996	P.S.I.	4:15 A	M
B First Initial Flow Pressure	32	P.S.I.	7 Mins.	7 Mins.
C First Final Flow Pressure	32	P.S.I.	30 Mins.	30 Mins.
D Initial Closed-in Pressure	75	P.S.I.	45 Mins.	45 Mins.
E Second Initial Flow Pressure	34	P.S.I.	30 Mins.	30 Mins.
F Second Final Flow Pressure	34	P.S.I.		
G Final Closed-in Pressure	43	P.S.I.		
H Final Hydrostatic Mud	1985	P.S.I.		

PRESSURE BREAKDOWN

Point Mins.	First Flow Press.	Initial Shut-In	Second Flow Pressure	Final Shut-In	
	Breakdown: <u>1</u> Inc. of <u>5</u> mins. and a final inc. of <u>2</u> Min.	Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	32	0	34	0	34
P 2	32	3	34	3	34
P 3	32	6	34	6	35
P 4		9	34	9	35
P 5		12	34	12	36
P 6		15	34	15	37
P 7		18	34	18	38
P 8		21	34	21	39
P 9		24	34	24	40
P 10		27	34	27	41
P 11		30		30	43
P 12					
P 13					
P 14					
P 15					
P 16					
P 17					
P 18					
P 19					
P 20					

Pickrell Dring. Co.
Brack #1

Test # 3
TKT # 4549



This is an actual photograph of recorder chart.

POINT

PRESSURE

(A) Initial Hydrostatic Mud	1996	PSI
(B) First Initial Flow Pressure	32	PSI
(C) First Final Flow Pressure	32	PSI
(D) Initial Closed-in Pressure	75	PSI
(E) Second Initial Flow Pressure	34	PSI
(F) Second Final Flow Pressure	34	PSI
(G) Final Closed-in Pressure	43	PSI
(H) Final Hydrostatic Mud	1985	PSI

COMPANY

PICKRELL DRILLING CO.

LEASE AND WELL NO.

BRACK #1

SEC.

16

TWP.

17

RGE.

16

TEST NO.

3

DATE

8-30-65