



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

Company Pickrell Drilling Company Lease & Well No. Diehl #1
Elevation 2055 Kelly Bushings Formation Kansas City Ticket Number 7330
Date Sept. 2, 1966 Sec. 4 Twp. 9s Range 17w County Rooks State Kansas
Test Approved by Ralph W. Ruwwe Western Representative Kenneth Cheney

Formation Test No. 1 O.K. ☒ Misrun ☐ Interval Tested From 3391' to 3420' Total Depth 3420'
Size Main Hole 7 7/8 Bit Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No ☐ Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No
Top Packer Depth 3387 Ft. Size 6 3/4 Packer Depth 3391 Ft. Size 6 3/4
Straddle ☐ Yes ☒ No ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No

Packer Depth 3387 Ft. Size 6 3/4
Tool Size 5 1/2 OD Tool Jt. Size 4 1/2 FH Anchor Length 29 Ft. Size 5 1/2 OD
RECORDERS Depth 3396 Ft. Clock No. 6899 Depth 3399 Ft. Clock No. 8367
Top Make Kuster Cap. 4150 No. 2608 Inside Outside Bottom Make Kuster Cap. 4200 No. 1558 Inside Outside
Below Straddle: Depth 3396 Clock No. 6899 Inside Outside Depth 3399 Ft. Clock No. 8367 Inside Outside
Top Make Kuster Cap. 4150 No. 2608 Inside Outside Bottom Make Kuster Cap. 4200 No. 1558 Inside Outside

Time Set Packer 2:54 A M
Tool Open I.F.P. From 2:55A M to 3:05 M Hr. 10 Min. From (B) 18 P.S.I. To (C) 29 P.S.I.
Tool Closed I.C.I.P. From 3:05 M to 3:35 M Hr. 30 Min. (D) 1061 P.S.I.
Tool Open F.F.P. From 3:35A M to 5:35 M 2 Hr. Min. From (E) 37 P.S.I. To (F) 91 P.S.I.
Tool Closed F.C.I.P. From 5:35 M to 6:35 M 1 Hr. Min. (G) 1025 P.S.I.
Initial Hydrostatic Pressure (A) 1891 P.S.I. Final Hydrostatic Pressure (H) 1886 P.S.I.

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

BLOW Weak for 2 hours Bottom Choke Size 3/4 In.
Did Well Flow ☒ Yes ☐ No Recovery Total Ft. 150' gas in pipe; 150' very heavy oil cut mud

Reversed Out ☐ Yes ☒ No Mud Type gel. Viscosity 45 Weight 10 Maximum Temp. 97 °F

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

Type Circ. Sub. plug Did Tool Plug? Where? Did Packer Hold? yes

Length Drill Pipe 2371 I.D. Drill Pipe 3.8n Length Weight Pipe 1000 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ft.

I. D. Drill Collars in. Length D.S.T. Tool 49 ft.

Remarks

WESTERN TESTING CO., INC.

Pressure Data

Date **September 2, 1966**

Recorder No. **1558**

Capacity **4200**

Test Ticket No. **7330**

Clock No. **8367**

Elevation **2055 Kelly Bushings**

Location **3399** Ft.

Well Temperature **97** °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1891 P.S.I.	Opened Tool	2:54 AM	
B First Initial Flow Pressure	18 P.S.I.	First Flow Pressure	10 Mins.	10 Mins.
C First Final Flow Pressure	29 P.S.I.	Initial Closed-in Pressure	30 Mins.	29 Mins.
D Initial Closed-in Pressure	1061 P.S.I.	Second Flow Pressure	120 Mins.	119 Mins.
E Second Initial Flow Pressure	37 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	91 P.S.I.			
G Final Closed-in Pressure	1025 P.S.I.			
H Final Hydrostatic Mud	1886 P.S.I.			

PRESSURE BREAKDOWN

First Flow Press.

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

Initial Shut-In

Breakdown: **9** Inc.
of **3** mins. and a
final inc. of **2** Min.

Second Flow Pressure

Breakdown: **2 3** Inc.
of **5** mins. and a
final inc. of **4** Min.

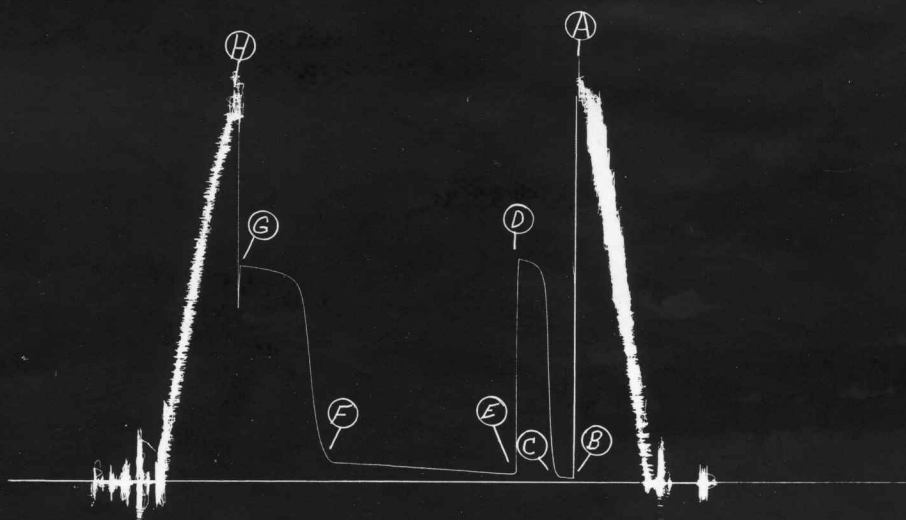
Final Shut-In

Breakdown: **20** Inc.
of **3** mins. and a
final inc. of **=** Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	18	0	29	0	37	0	91
P 2 5	23	3	90	5	38	3	109
P 3 10	29	6	94	10	40	6	153
P 4		9	873	15	42	9	217
P 5		12	1000	20	45	12	333
P 6		15	1029	25	48	15	486
P 7		18	1039	30	50	18	676
P 8		21	1048	35	53	21	853
P 9		24	1054	40	56	24	932
P 10		27	1057	45	58	27	960
P 11		29	1061	50	61	30	974
P 12				55	63	33	987
P 13				60	65	36	994
P 14				65	68	39	1002
P 15				70	71	42	1007
P 16				75	76	45	1010
P 17				80	78	48	1013
P 18				85	80	51	1017
P 19				90	82	54	1020
P 20				95	84	57	1023
				100	85	60	1025
				105	87		
				110	90		
				115	90		
				119	91		

Pickrell Dr/g Co.
Diehl #1

TKT-7330
Test #1



This is an actual photograph of recorder chart.

POINT	PRESSURE	
(A) Initial Hydrostatic Mud	1891	PSI
(B) First Initial Flow Pressure	18	PSI
(C) First Final Flow Pressure	29	PSI
(D) Initial Closed-in Pressure	1061	PSI
(E) Second Initial Flow Pressure	37	PSI
(F) Second Final Flow Pressure	91	PSI
(G) Final Closed-in Pressure	1025	PSI
(H) Final Hydrostatic Mud	1886	PSI



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Company **Pickrell Drilling Company** Lease & Well No. **Diehl #1**
Elevation **2055 Kelly Bushings** Formation **Sand** Ticket Number **7331**
Date **Sept. 2, 1966** Sec. **4** Twp. **9s** Range **17w** County **Rooks** State **Kansas**
Test Approved by **Ralph W. Ruwwe** Western Representative **Kenneth Cheney**

Formation Test No. **2** O.K. ☒ Misrun Interval Tested From **3432'** to **3455'** Total Depth **3455'**
Size Main Hole **7 7/8** Rat Hole Conv. ☒ B.T. ☒ Damaged Yes ☒ No Conv. ☒ B.T. ☒ Damaged Yes ☒ No
Top Packer Depth **3429** Ft. Size **6 3/4** Packer Depth **3432** 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 **23** Ft. Size **5 1/2 OD**
RECORDERS Depth **3448** Ft. Clock No. **6899** Depth **3451** Ft. Clock No. **8367**
Top Make **Kuster** Cap. **4150** No. **2608** Inside ☒ Outside ☒ Bottom Make **Kuster** Cap. **4200** No. **1558** 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 **5:45 P** M
Tool Open I.F.P. From **5:55** M to **6:05** M Hr. **10** Min. From (B) **31** P.S.I. To (C) **31** P.S.I.
Tool Closed I.C.I.P. From **6:05** M. to **6:35** M. Hr. **30** Min. (D) **712** P.S.I.
Tool Open F.F.P. From **6:35** M. to **8:35** M. **2** Hr. Min. From (E) **35** P.S.I. To (F) **69** P.S.I.
Tool Closed F.C.I.P. From **8:35** M. to **9:35** M. **1** Hr. Min. (G) **673** P.S.I.
Initial Hydrostatic Pressure (A) **1897** P.S.I. Final Hydrostatic Pressure (H) **1886** P.S.I.

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

BLOW **Fair throughout test.** Bottom Choke Size **3/4** In.
Did Well Flow Yes ☒ No Recovery Total Ft. **125' muddy oil**

Reversed Out Yes ☒ No Mud Type **starch** Viscosity **46** Weight **10.1** Maximum Temp. **99** °F

EXTRA EQUIPMENT: Dual Packers **yes** Safety Joint Jars: Size Make Ser. No.

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

Length Drill Pipe **2412** ft. I.D. Drill Pipe **3.8** Length Weight Pipe **1000** ft. I.D. Weight Pipe **2.7** in. Length Drill Collars _____ ft.

I. D. Drill Collars _____ in. Length D.S.T. Tool **43** ft.

Remarks

WESTERN TESTING CO., INC.

Pressure Data

Date September 2, 1966 Recorder No. 208 Capacity 4150 Test Ticket No. 7331
 Clock No. 6899 Elevation 2055 Kelly Bushings Location 3448 Ft. Well Temperature 99 °F

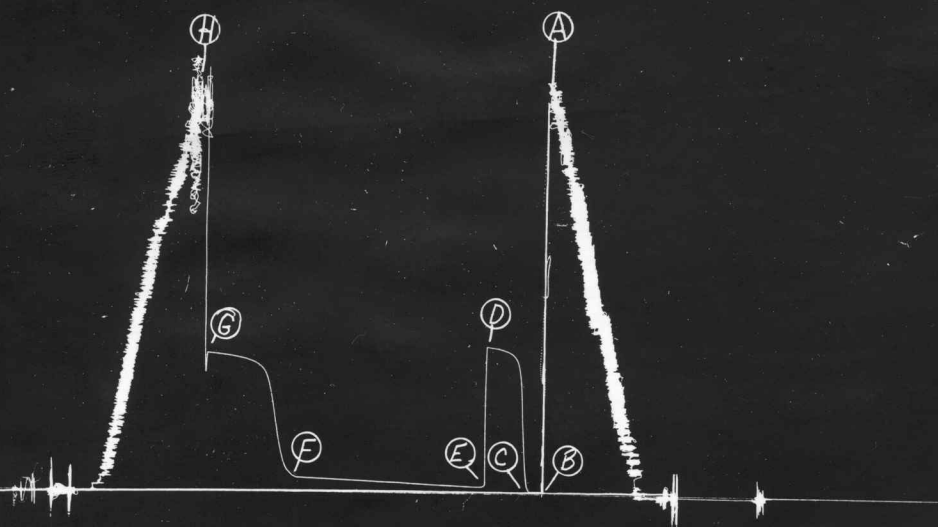
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1897</u>	P.S.I.	<u>5:45 PM</u>	
B First Initial Flow Pressure	<u>31</u>	P.S.I.	<u>10</u> Mins.	<u>10</u> Mins.
C First Final Flow Pressure	<u>31</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>712</u>	P.S.I.	<u>120</u> Mins.	<u>120</u> Mins.
E Second Initial Flow Pressure	<u>35</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>69</u>	P.S.I.		
G Final Closed-in Pressure	<u>673</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1886</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Press.		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>2</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>24</u> Inc.		Breakdown: <u>20</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>—</u> Min.		final inc. of <u>—</u> Min.		final inc. of <u>—</u> Min.		final inc. of <u>—</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>31</u>	<u>0</u>	<u>31</u>	<u>0</u>	<u>35</u>	<u>0</u>	<u>69</u>
P 2 <u>5</u>	<u>31</u>	<u>3</u>	<u>87</u>	<u>5</u>	<u>35</u>	<u>3</u>	<u>83</u>
P 3 <u>10</u>	<u>31</u>	<u>6</u>	<u>318</u>	<u>10</u>	<u>35</u>	<u>6</u>	<u>101</u>
P 4 <u>15</u>	<u>31</u>	<u>9</u>	<u>606</u>	<u>15</u>	<u>37</u>	<u>9</u>	<u>126</u>
P 5		<u>12</u>	<u>662</u>	<u>20</u>	<u>39</u>	<u>12</u>	<u>191</u>
P 6		<u>15</u>	<u>681</u>	<u>25</u>	<u>41</u>	<u>15</u>	<u>299</u>
P 7		<u>18</u>	<u>693</u>	<u>30</u>	<u>42</u>	<u>18</u>	<u>433</u>
P 8		<u>21</u>	<u>699</u>	<u>35</u>	<u>43</u>	<u>21</u>	<u>545</u>
P 9		<u>24</u>	<u>703</u>	<u>40</u>	<u>43</u>	<u>24</u>	<u>592</u>
P 10		<u>27</u>	<u>710</u>	<u>45</u>	<u>44</u>	<u>27</u>	<u>615</u>
P 11		<u>30</u>	<u>712</u>	<u>50</u>	<u>45</u>	<u>30</u>	<u>630</u>
P 12				<u>55</u>	<u>47</u>	<u>33</u>	<u>641</u>
P 13				<u>60</u>	<u>48</u>	<u>36</u>	<u>647</u>
P 14				<u>65</u>	<u>51</u>	<u>39</u>	<u>753</u>
P 15				<u>70</u>	<u>53</u>	<u>42</u>	<u>655</u>
P 16				<u>75</u>	<u>55</u>	<u>45</u>	<u>659</u>
P 17				<u>80</u>	<u>57</u>	<u>48</u>	<u>662</u>
P 18				<u>85</u>	<u>59</u>	<u>51</u>	<u>665</u>
P 19				<u>90</u>	<u>60</u>	<u>54</u>	<u>668</u>
P 20				<u>95</u>	<u>61</u>	<u>57</u>	<u>670</u>
				<u>100</u>	<u>62</u>	<u>60</u>	<u>673</u>
				<u>105</u>	<u>64</u>		
				<u>110</u>	<u>66</u>		
				<u>115</u>	<u>68</u>		
				<u>120</u>	<u>69</u>		

Pickrell Drilling Co.
Diehl #1

TKT-7331
Test # 2



This is an actual photograph of recorder chart.

POINT

PRESSURE

(A) Initial Hydrostatic Mud	1897	PSI
(B) First Initial Flow Pressure	31	PSI
(C) First Final Flow Pressure	31	PSI
(D) Initial Closed-in Pressure	712	PSI
(E) Second Initial Flow Pressure	35	PSI
(F) Second Final Flow Pressure	69	PSI
(G) Final Closed-in Pressure	673	PSI
(H) Final Hydrostatic Mud	1886	PSI