



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

Company Pickrell Drilling Company Lease & Well No. D1ehl #C-2
Elevation 2047 Kelly Bushings Formation Kansas City Ticket Number 7772
Date March 11, 1967 Sec. 4 Twp. 9 Range 17 County Rooks State Kansas
Test Approved by Ralph W. Runne Western Representative Dean Blagrove

Formation Test No. 1 O.K. ☒ Misrun Interval Tested From 3396' to 3424' Total Depth 3424'
Size Main Hole 7 7/8 Rat Hole none Conv. ☒ B.T. Damaged Yes ☒ No Conv. ☒ B.T. Damaged Yes ☒ No
Packer Depth 3391 Ft. Size 6 3/4 Packer Depth 3396 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 28 Ft. Size 5 1/2 OD
RECORDERS Depth 315 Ft. Clock No. 6892 Depth 3418 Ft. Clock No. 6774
Top Make Amerada Cap. 4150 No. 2606 Inside Outside Bottom Make Amerada Cap. 4300 No. 1567 Inside Outside
Below Straddle: Depth Clock No. Inside Outside Depth Ft. Clock No. Inside Outside
Top Make 7:23 Cap. No. Outside Bottom Make Cap. No. Inside Outside
Time Set Packer M

Tool Open I.F.P. From 7:25 M to 7:35 M Hr. 10 Min. From (B) 45 P.S.I. To (C) 45 P.S.I.
Tool Closed I.C.I.P. From 7:35 M. to 8:05 M. Hr. 30 Min. (D) 754 P.S.I.
Tool Open F.F.P. From 8:05 M. to 10:05 M. Hr. 2 Min. From (E) 56 P.S.I. To (F) 64 P.S.I.
Tool Closed F.C.I.P. From 10:05 M. to 11:05 M. Hr. 1 Min. (G) 663 P.S.I.
Initial Hydrostatic Pressure (A) 1846 P.S.I. Final Hydrostatic Pressure (H) 1800 P.S.I.

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

BLOW Very weak throughout Bottom Choke Size 3/4 In.
Did Well Flow Yes ☒ No Recovery Total Ft. 75' heavy oil cut mud (25% oil)

Reversed Out Yes ☒ No Mud Type starch Viscosity 45 Weight 10.1 Maximum Temp. 102 °F
EXTRA EQUIPMENT: Dual Packers yes 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 1080 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars none ft.
I. D. Drill Collars _____ in. Length D.S.T. Tool 46 ft.

Remarks

Pressure Data

Date March 11, 1967Recorder No. 2606Capacity 4150Test Ticket No. 7772Location 3415 Ft.Clock No. 6892Elevation 2047 Kelly BushingsWell Temperature 102 °F

Point	Pressure	
A Initial Hydrostatic Mud	<u>1846</u>	P.S.I.
B First Initial Flow Pressure	<u>45</u>	P.S.I.
C First Final Flow Pressure	<u>45</u>	P.S.I.
D Initial Closed-in Pressure	<u>754</u>	P.S.I.
E Second Initial Flow Pressure	<u>66</u>	P.S.I.
F Second Final Flow Pressure	<u>64</u>	P.S.I.
G Final Closed-in Pressure	<u>663</u>	P.S.I.
H Final Hydrostatic Mud	<u>1800</u>	P.S.I.

Opened Tool

First Flow Pressure

Initial Closed-in Pressure

Second Flow Pressure

Final Closed-in Pressure

Time Given 7:23 P

M

Time Computed

10 Mins. 10 Mins.30 Mins. 30 Mins.120 Mins. 120 Mins.60 Mins. 59 Mins.

PRESSURE BREAKDOWN

First Flow Press.

Breakdown: 2 Inc.of 5 mins. and afinal inc. of 2 Min.

Initial Shut-In

Breakdown: 10 Inc.of 3 mins. and afinal inc. of 2 Min.

Second Flow Pressure

Breakdown: 24 Inc.of 5 mins. and afinal inc. of 2 Min.

Final Shut-In

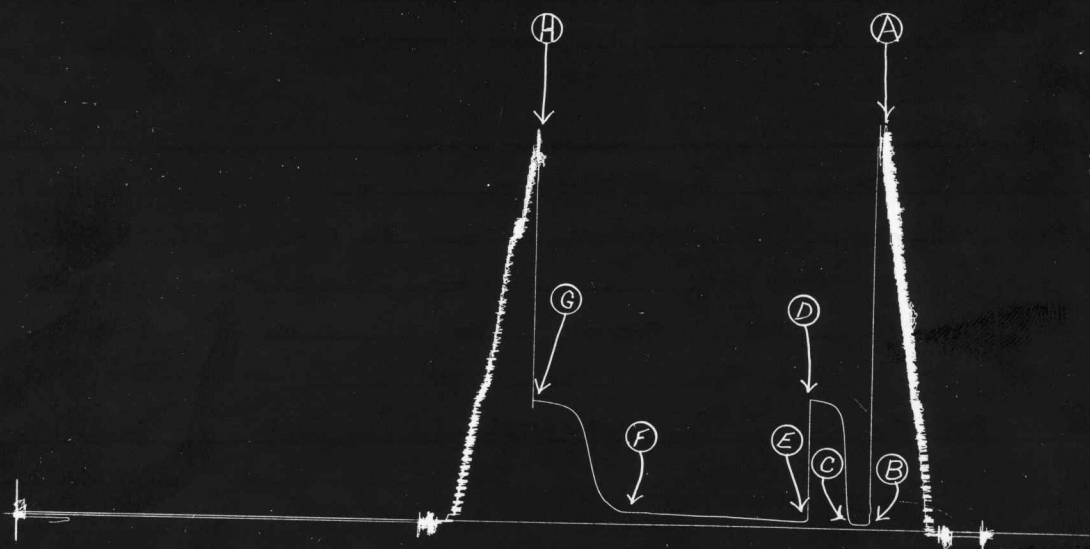
Breakdown: 19 Inc.of 3 mins. and afinal inc. of 2 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>45</u>	<u>0</u>	<u>45</u>	<u>0</u>	<u>56</u>	<u>0</u>	<u>64</u>
P 2 <u>5</u>	<u>45</u>	<u>3</u>	<u>52</u>	<u>5</u>	<u>56</u>	<u>3</u>	<u>70</u>
P 3 <u>10</u>	<u>45</u>	<u>6</u>	<u>79</u>	<u>10</u>	<u>56</u>	<u>6</u>	<u>76</u>
P 4		<u>9</u>	<u>156</u>	<u>15</u>	<u>56</u>	<u>9</u>	<u>83</u>
P 5		<u>12</u>	<u>291</u>	<u>20</u>	<u>56</u>	<u>12</u>	<u>93</u>
P 6		<u>15</u>	<u>449</u>	<u>25</u>	<u>56</u>	<u>15</u>	<u>106</u>
P 7		<u>18</u>	<u>565</u>	<u>30</u>	<u>56</u>	<u>18</u>	<u>108</u>
P 8		<u>21</u>	<u>640</u>	<u>35</u>	<u>56</u>	<u>21</u>	<u>137</u>
P 9		<u>24</u>	<u>694</u>	<u>40</u>	<u>56</u>	<u>24</u>	<u>162</u>
P10		<u>27</u>	<u>729</u>	<u>45</u>	<u>57</u>	<u>27</u>	<u>193</u>
P11		<u>30</u>	<u>754</u>	<u>50</u>	<u>58</u>	<u>30</u>	<u>235</u>
P12				<u>55</u>	<u>58</u>	<u>33</u>	<u>282</u>
				<u>60</u>	<u>60</u>	<u>36</u>	<u>336</u>
P13				<u>65</u>	<u>60</u>	<u>39</u>	<u>395</u>
P14				<u>70</u>	<u>60</u>	<u>42</u>	<u>454</u>
				<u>75</u>	<u>60</u>	<u>45</u>	<u>510</u>
P15				<u>80</u>	<u>60</u>	<u>48</u>	<u>555</u>
				<u>85</u>	<u>60</u>	<u>51</u>	<u>593</u>
P16				<u>90</u>	<u>61</u>	<u>54</u>	<u>624</u>
				<u>95</u>	<u>61</u>	<u>57</u>	<u>649</u>
P17				<u>100</u>	<u>62</u>	<u>59</u>	<u>663</u>
P18				<u>105</u>	<u>63</u>		
P19				<u>110</u>	<u>64</u>		
P20				<u>115</u>	<u>64</u>		
				<u>120</u>	<u>64</u>		

Pickrell Drlg Co.
Diehl "C" #2

TKT-7773

Test-2



This is an actual photograph of recorder chart.

POINT	PRESSURE
(A) Initial Hydrostatic Mud	1846 PSI
(B) First Initial Flow Pressure	45 PSI
(C) First Final Flow Pressure	45 PSI
(D) Initial Closed-in Pressure	754 PSI
(E) Second Initial Flow Pressure	56 PSI
(F) Second Final Flow Pressure	64 PSI
(G) Final Closed-in Pressure	663 PSI
(H) Final Hydrostatic Mud	1800 PSI



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

Company Pickrell Drilling Company Lease & Well No. Diehl #C-2
Elevation 2047 Kelly Bushings Formation Sand Ticket Number 7773
Date March 12, 1967 Sec. 4 Twp. 9 Range 17 County Rooks State Kansas
Test Approved by Ralph W. Runwe Western Representative Dean Blagrove

Formation Test No. 2 O.K. ☒ Misrun Interval Tested From 3437' to 3460' Total Depth 3460'
Size Main Hole 7 7/8 Rat Hole none Conv. ☒ B.T. Damaged Yes ☒ No Conv. ☒ B.T. Damaged Yes ☒ No
Packer Depth 3432 Ft. Size 6 3/4 Packer Depth 3437 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 23 Ft. Size 5 1/2 OD
RECORDERS Depth 3451 Ft. Clock No. 6892 Depth 3454 Ft. Clock No. 6774
Top Make Amerada Cap. 4150 No. 2606 Inside Outside Bottom Make Amerada 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 9:45 A M

Tool Open I.F.P. From 9:45 M to 9:55 M Hr. 10 Min. From (B) 38 P.S.I. To (C) 38 P.S.I.
Tool Closed I.C.I.P. From 9:55 M. to 10:25 M. Hr. 30 Min. (D) 632 P.S.I.
Tool Open F.F.P. From 10:25A M. to 12:25 M. 2 Hr. Min. From (E) 45 P.S.I. To (F) 70 P.S.I.
Tool Closed F.C.I.P. From 12:25P M. to 1:25P M. 1 Hr. Min. (G) 597 P.S.I.
Initial Hydrostatic Pressure (A) 1861 P.S.I. Final Hydrostatic Pressure (H) 1857 P.S.I.

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

BLOW Weak increasing slightly throughout test. Bottom Choke Size 3/4 In.
Did Well Flow Yes ☒ No Recovery Total Ft. 30' very heavy oil cut mud; 60' heavy oil cut mud;
30' gas in pipe (35% oil) (25% oil) Mud

Reversed Out Yes ☒ No Mud Type starch Viscosity 49 Weight 10.1 Maximum Temp. 102 °F
EXTRA EQUIPMENT: Dual Packers yes 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 1080 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars none ft.
I. D. Drill Collars _____ in. Length D.S.T. Tool 41 ft.

Remarks

WESTERN TESTING CO., INC.

Pressure Data

Date **March 12, 1967**

Recorder No. **2606**

Clock No. **6892**

Capacity **4150**

Elevation **2047 Kelly Bushings**

Test Ticket No. **7773**

Location **3451**

Well Temperature **102** °F

Point	Pressure	
A Initial Hydrostatic Mud	1861	P.S.I.
B First Initial Flow Pressure	38	P.S.I.
C First Final Flow Pressure	38	P.S.I.
D Initial Closed-in Pressure	632	P.S.I.
E Second Initial Flow Pressure	45	P.S.I.
F Second Final Flow Pressure	70	P.S.I.
G Final Closed-in Pressure	597	P.S.I.
H Final Hydrostatic Mud	1857	P.S.I.

Opened Tool

First Flow Pressure

Initial Closed-in Pressure

Second Flow Pressure

Final Closed-in Pressure

Time Given **9:43 A**

Time Computed

10	Mins.	10	Mins.
30	Mins.	30	Mins.
120	Mins.	120	Mins.
60	Mins.	60	Mins.

PRESSURE BREAKDOWN

First Flow Press.
Breakdown: **2** Inc.
of **5** mins. and a
final inc. of **—** Min.

Initial Shut-In
Breakdown: **10** Inc.
of **3** mins. and a
final inc. of **—** Min.

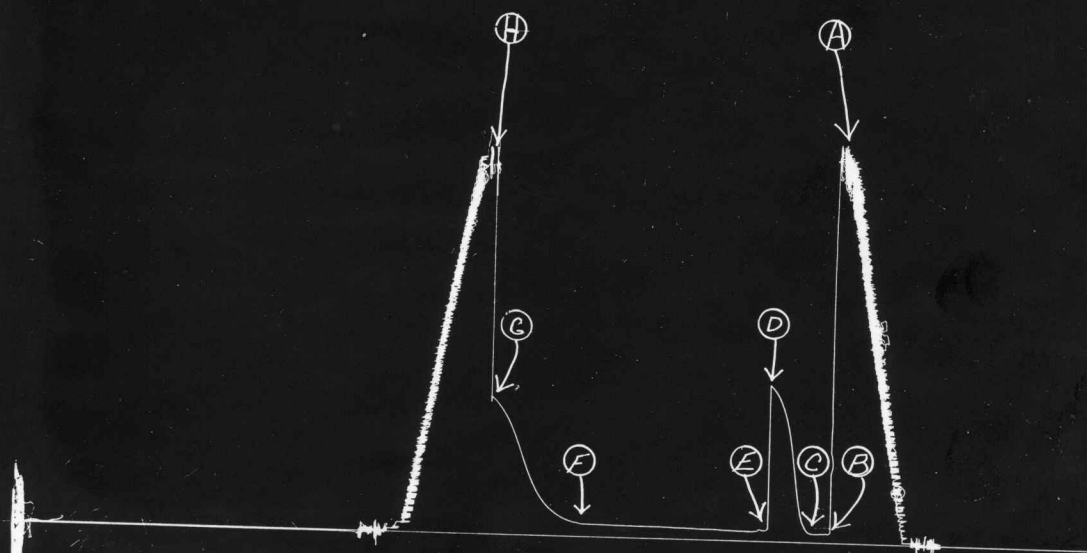
Second Flow Pressure
Breakdown: **24** Inc.
of **5** mins. and a
final inc. of **—** Min.

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	38	0	88	0	45	0	70
P 2 5	38	3	116	5	45	3	74
P 3 10	38	6	347	10	45	6	87
P 4		9	537	15	45	9	105
P 5		12	584	20	46	12	128
P 6		15	605	25	47	15	166
P 7		18	615	30	49	18	226
P 8		21	623	35	51	21	312
P 9		24	627	40	54	24	410
P 10		27	630	45	56	27	477
P 11		30	632	50	58	30	524
P 12				55	58	33	547
P 13				60	59	36	562
P 14				65	60	39	572
P 15				70	60	42	578
P 16				75	62	45	582
P 17				80	64	48	586
P 18				85	64	51	590
P 19				90	64	54	593
P 20				95	64	57	595
				100	65	60	597
				105	67		
				110	68		
				115	69		
				120	70		

Pickrell Drilling Co.
Diel 1" C" 2

TKT-7772
Test #1



This is an actual photograph of recorder chart.

POINT	PRESSURE	
(A) Initial Hydrostatic Mud	1861	PSI
(B) First Initial Flow Pressure	38	PSI
(C) First Final Flow Pressure	38	PSI
(D) Initial Closed-in Pressure	632	PSI
(E) Second Initial Flow Pressure	45	PSI
(F) Second Final Flow Pressure	70	PSI
(G) Final Closed-in Pressure	597	PSI
(H) Final Hydrostatic Mud	1857	PSI