



P. O. BOX 793 PHONE 793-7903
GREAT BEND, KANSAS

WESTERN TESTING CO., INC. FORMATION TESTING

TICKET 25598

Formation Morrow Elevation 2405 KB Eff. Pay _____ Ft.

District Pratt

Date 8-5-76

Customer Order No. _____

COMPANY NAME Pickrell Drilling Company

ADDRESS Litwin Bldg. - Suite 205 110 North Market Wichita, Kansas

LEASE AND WELL NO. Hallings B #1 COUNTY Clarke STATE Kansas Sec. 14 Twp. 30^S Rge. 22^W

Mail Inv. To Same as above

No. Copies Requested Usual

Co. Name " " "

Address

Mail Charts To

No. Copies Requested Usual

Address

Formation Test No. 1 O.K. ☒ Misrun ☐ Interval Tested From 5272 to 5315 Total Depth 5315
Size Main Hole 7 7/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged Yes ☒ No Conv. ☐ B.T. ☒ Damaged Yes ☒ No
Top Packer Depth 5267 Ft. Size 6 3/4 Bottom Packer Depth 5272 Ft. Size 6 3/4
Straddle ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No Packer Depth ☐ Ft. Size ☐
Tool Size 5/200 Tool Joint Size 4 1/2 FH Anchor Length 43 Ft. Size ☐ Surface Choke Size ☐ In. Bottom Choke Size ☐ In.

RECORDERS Depth 5274 Ft. Clock No. 6897 Inside
Top Make Kuster Cap. 4250 No. 1051 Outside
Bottom Make Kuster Cap. 4000 No. 3659 Inside
Below Straddle: Depth ☐ Rec. No. ☐ Clock No. ☐ Outside

Time Set Packer 9:22 P M
Tool Open I.F.P. From 9:25 P M. to 9:55 P M. - Hr. 30 Min. From (B) 739 P.S.I. To (C) 758 P.S.I.
Tool Closed I.C.I.P. From 9:55 P M. to 10:55 P M. 1 Hr. - Min. (D) 1723 P.S.I.
Tool Open F.F.P. From 10:55 P M. to 12:35 A M. 1 Hr. 30 Min. From (E) 654 P.S.I. To (F) 619 P.S.I.
Tool Closed F.C.I.P. From 12:35 A M. to 1:25 A M. 1 Hr. - Min. (G) 1703 P.S.I.
Initial Hydrostatic Pressure (A) 2730 P.S.I. Final Hydrostatic Pressure (H) 2700 P.S.I. Maximum Temp. 110

INFORMATION

BLOW Strong gas to surface in 2 minutes.

Did Well Flow ☒ Yes ☐ No Recovery Total Ft. 45' C/N Oil 20' Mdy Gsy Oil
Oil 42 Gr. Corr.

Reversed Out ☒ Yes ☐ No Mud Type starch salt Viscosity 63 Weight 9.7 Water Loss 14.4 cc. Chlorides 45,000 PPM

EXTRA EQUIPMENT: Type Circ. Sub. Pip Safety Joint ☐ Jars: Size 4 1/2 In. Make W.T.C. Ser. No. 408

Dual Packers Yes Did Packers Hold? Yes Did Tool Plug? No Where? ☐

DRILLING CONTRACTOR Pickrell Drilling Co. Inc. Length Drill Pipe 5061 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 In.

Length Weight Pipe ☐ ft. I.D. Weight Pipe ☐ In. Tool Joint Size 4 1/2 In. Length Drill Collars 184 ft. I.D. Drill Collars ☐ In.

Tool Joint Size ☐ In. Length D.S.T. Tool 70 ft.

Remarks Pressures from 3659

INVOICE SECTION

Open Hole Test	\$ <u>425.00</u>
Straddle Test	\$
Jars	\$ <u>165.00</u>
Selective Zone	\$
Safety Joint	\$
Misrun	\$
Evaluation	\$
Packer	\$
Circ. Sub.	\$
Total	\$ <u>590.00</u>

COMPANY TERMS

Western Testing Co., Inc., shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Brad Price
Signature of Customer or his
Authorized Representative

Western Representative Paul Barragan

Operator's Time Thank You

Hrs.

WESTERN TESTING CO., INC.
Pressure Data

8-5-76
 Test Ticket No. 25598
 Well No. 3659 Capacity 4000 Location 5277 Ft.
 No. 10168 Elevation 2405 K.B. Well Temperature 110 °F

Pressure		Time	
		Given	Computed
Initial Hydrostatic Mud	<u>2834</u> P.S.I.	<u>9:22 P</u>	<u>M</u>
First Initial Flow Pressure	<u>743</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
First Final Flow Pressure	<u>762</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
Initial Closed-in Pressure	<u>1736</u> P.S.I.	<u>90</u> Mins.	<u>85</u> Mins.
Second Initial Flow Pressure	<u>663</u> P.S.I.	<u>60</u> Mins.	<u>57</u> Mins.
Second Final Flow Pressure	<u>615</u> P.S.I.		
Initial Closed-in Pressure	<u>1718</u> P.S.I.		
Final Hydrostatic Mud	<u>2728</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>17</u> Inc.		Breakdown: <u>19</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.	
Time	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
0	<u>743</u>	0	<u>762</u>	0	<u>663</u>	0	<u>615</u>
5	<u>768</u>	3	<u>1682</u>	5	<u>693</u>	3	<u>1573</u>
10	<u>792</u>	6	<u>1699</u>	10	<u>723</u>	6	<u>1637</u>
15	<u>794</u>	9	<u>1707</u>	15	<u>724</u>	9	<u>1661</u>
20	<u>777</u>	12	<u>1715</u>	20	<u>717</u>	12	<u>1673</u>
25	<u>770</u>	15	<u>1719</u>	25	<u>705</u>	15	<u>1683</u>
30	<u>762</u>	18	<u>1723</u>	30	<u>695</u>	18	<u>1689</u>
35		21	<u>1725</u>	35	<u>683</u>	21	<u>1695</u>
40		24	<u>1729</u>	40	<u>675</u>	24	<u>1699</u>
45		27	<u>1730</u>	45	<u>665</u>	27	<u>1703</u>
50		30	<u>1731</u>	50	<u>657</u>	30	<u>1705</u>
55		33	<u>1732</u>	55	<u>647</u>	33	<u>1709</u>
60		36	<u>1733</u>	60	<u>639</u>	36	<u>1710</u>
		39	<u>1734</u>	65	<u>631</u>	39	<u>1711</u>
		42	<u>1735</u>	70	<u>623</u>	42	<u>1713</u>
		45	<u>1736</u>	75	<u>621</u>	45	<u>1714</u>
		48	<u>1736</u>	80	<u>620</u>	48	<u>1715</u>
		51	<u>1736</u>	85	<u>615</u>	51	<u>1717</u>
		54	<u>1736</u>	90		54	<u>1718</u>
		57	<u>1736</u>			57	<u>1718</u>
		60	<u>1736</u>			60	

Phone 316 262-5861

316 838-0601



P. O. Box 1599

WICHITA, KANSAS 67201

GAS FLOW REPORT

N^o 248

Date 8-5-76 Ticket 25598 Company Pickrell Drilling Co.
 Well Name and No. Hallings B #1 Dst No. 1 Interval Tested 5272-5315
 County Clark State Kansas Sec. 14 Twp. 30S Rg. 22W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pilot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
PRE FLOW						
Tool opened at	<u>9:25</u>		<u>2"</u>			
9:30	3 min		2"	—	—	3,120,000
9:40	13 "		2"	—	—	4,450,000
9:50	18 "		2"	—	—	4,450,000
Tool closed at	9:55		2"	—	—	
			2"	—	—	
			2"	—	—	
SECOND FLOW						
Tool opened at	10:55					
11:00	5		2"	—	—	3,590,000
11:10	10 15		2"	—	—	4,355,000
11:20	10 25		2"	—	—	4,260,000
11:30	10 35		2"	—	—	4,070,000
11:40	10 45		2"	—	—	4,070,000
11:50	10 55		2"	—	—	3,880,000
12:00	11 15		2"	—	—	3,690,000
12:10	11 25		2"	—	—	3,590,000
12:20	Started spray-		2" ing	mud	—	
12:25			2"			

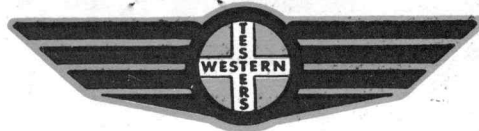
GAS BOTTLE

Serial No. 620 Date Bottle Filled 8-5-76 Date to be Invoiced 9-5-76

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Pickrell Drilling CoAuthorized by Brad Pinn



INC.

P. O. Box 1599
Wichita, Kansas 67201

Company Pickrell Drilling Company Lease & Well No. Hallings B#1
Elevation 2405 Kelly Bushing Formation Morrow Effective Pay - Ft. Ticket No. 25598
Date 8-5-76 Sec. 14 Twp. 30S Range 22W County Clark State KS
Test Approved by Brad Rine Western Representative Paul Barragan
Formation Test No. #1 O.K. ☒ Misrun ☐ Interval Tested From 5272' to 5315' Total Depth 5315'
Size Main Hole 7 7/8 at Hole - Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No
Top Packer Depth 5267 Ft. Size 6 3/4 Bottom Packer Depth 5272 Ft. Size 6 3/4
Straddle ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No Packer Depth - Ft. Size -
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 43 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 5274 Ft. Clock No. 6897 Depth 5277 Ft. Clock No. 10168
Top Make Kuster Cap. 4250 No. 1051 Inside Outside Bottom Make Kuster Cap. 4000 No. 3659 Inside Outside
Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside
Time Set Packer 9:22P M
Tool Open I.F.P. From 9:25P M. to 9:55P M. - Hr. 30 Min. From (B) 734 P.S.I. To (C) 762 P.S.I.
Tool Closed I.C.I.P. From 9:55P M. to 10:55P M. 1 Hr. - Min (D) 1736 P.S.I.
Tool Open F.F.P. From 10:55P M. to 12:25A M. 1 Hr. 30 Min. From (E) 663 P.S.I. To (F) 615 P.S.I.
Tool Closed F.C.I.P. From 12:25A M. to 1:25A M. 1 Hr. - Min. (G) 1718 P.S.I.
Initial Hydrostatic Pressure (A) 2834 P.S.I. Final Hydrostatic Pressure (H) 2728 P.S.I. Maximum Temp. 110

INFORMATION

BLOW Strong gas to surface in two minutes

Did Well Flow ☒ Yes ☐ No Recovery Total Ft. 45' Clean oil 20' muddy gassy oil Oil 42 Gr. Corr.

Reversed Out ☐ Yes ☒ No Mud Type Starch ~~Salt~~ Viscosity 63 Weight 9.7 Water Loss 14.4 cc. Chlorides 45,000 PPM

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size 4 1/2 OD In. Make WTC Ser. No. 408

Dual Packer ☒ Yes Did Packers Hold? ☒ Yes Did Tool Plug? ☐ No Where? -

DRILLING CONTRACTOR Pickrell Drlg Co Rig #1 Length Drill Pipe? 5061 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size 4 1/2 In. Length Drill Collar 184 Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 70 Ft.

Remarks:

Pressures from 3659

Read outside recorder



INC.

P. O. Box 1599

Wichita, Kansas 67201

GAS FLOW REPORT

Date 8-5-76 Ticket 25598 Company Pickrell Drilling Company
Well Name and No. Hallings B#1 Dst No. #1 Interval Tested 5272' to 5315'
County Clark State KS Sec. 14 Twp. 30S Rg. 22W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
Tool opened at 9:25 2" open flow PRE FLOW						
9:30	3 Min.		2" Choke			3,120,000 C.F.P.D.
9:40	13 Min.		2" Choke			4,450,000 C.F.P.D.
9:50	13 Min.		2" Choke			4,450,000 C.F.P.D.
Tool closed at 9:55						

SECOND FLOW

Tool opened at 10:55						
11:00	5 Min.		2" Choke			3,590,000 C.F.P.D.
11:10	15 Min.		2" Choke			4,355,000 C.F.P.D.
11:20	25 Min.		2" Choke			4,260,000 C.F.P.D.
11:30	35 Min.		2" Choke			4,070,000 C.F.P.D.
11:40	45 Min.		2" Choke			4,070,000 C.F.P.D.
11:50	55 Min.		2" Choke			3,880,000 C.F.P.D.
12:00	65 Min.		2" Choke			3,690,000 C.F.P.D.
12:10	75 Min.		2" Choke			3,590,000 C.F.P.D.
12:20	Started spraying mud					

GAS BOTTLE

Serial No. 620 Date Bottle Filled 8-5-76 Date to be Invoiced 8-5-76

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Pickrell Drilling Company

Authorized by Brad Rine

WESTERN TESTING CO., INC.

Pressure Data

Date 8-5-76

Test Ticket No. 25598

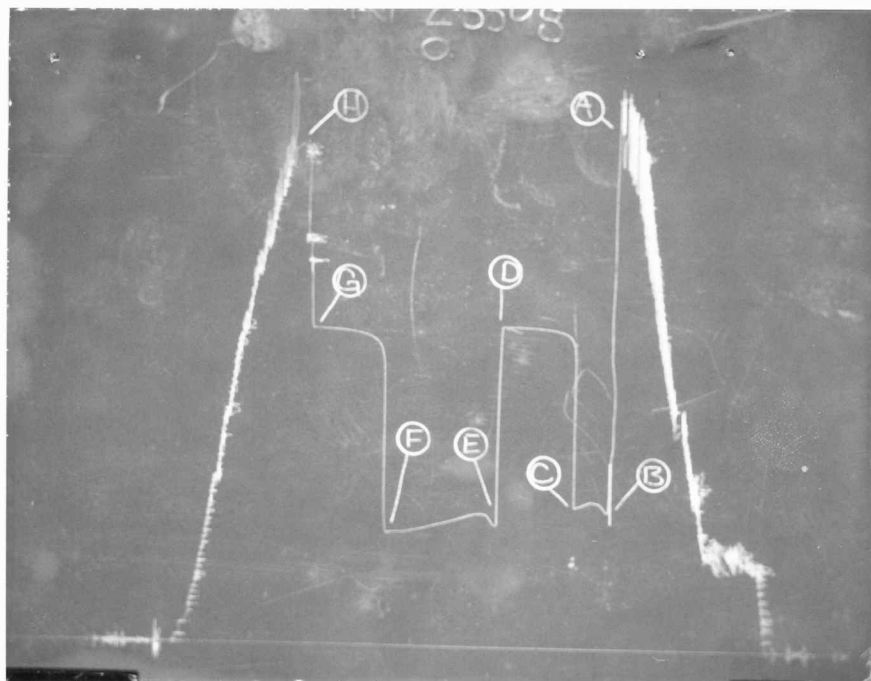
Recorder No. 3659 Capacity 4000 Location 5277 Ft.

Clock No. 10168 Elevation 2405 Kelly Bushing Well Temperature 110 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2834 P.S.I.	Open Tool	9:22P	M
B First Initial Flow Pressure	743 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	762 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1736 P.S.I.	Second Flow Pressure	90 Mins.	85 Mins.
E Second Initial Flow Pressure	663 P.S.I.	Final Closed-in Pressure	60 Mins.	57 Mins.
F Second Final Flow Pressure	615 P.S.I.			
G Final Closed-in Pressure	1718 P.S.I.			
H Final Hydrostatic Mud	2728 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>17</u> Inc.		Breakdown: <u>19</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 0	743	0	762	0	663	0	615
P 2 5	768	3	1682	5	693	3	1573
P 3 10	792	6	1699	10	723	6	1637
P 4 15	794	9	1707	15	724	9	1661
P 5 20	777	12	1715	20	717	12	1673
P 6 25	770	15	1719	25	705	15	1683
P 7 30	762	18	1723	30	695	18	1689
P 8 35		21	1725	35	683	21	1695
P 9 40		24	1729	40	675	24	1699
P10 45		27	1730	45	665	27	1703
P11 50		30	1731	50	657	30	1705
P12 55		33	1732	55	647	33	1709
P13 60		36	1733	60	639	36	1710
P14		39	1734	65	631	39	1711
P15		42	1735	70	623	42	1713
P16		45	1736	75	621	45	1714
P17		48	1736	80	620	48	1715
P18		51	1736	85	615	51	1717
P19		54	1736	90		54	1718
P20		57	1736			57	1718
		60	1736			60	





P. O. BOX 793

PHONE 793-7903

GREAT BEND, KANSAS

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

25599

Formation Morrow Elevation 2405 KB Eff. Pay 10' Ft.District PrattDate 8-6-76Customer Order No. COMPANY NAME Pickrell Drilling CompanyADDRESS Litwin Bldg. Suite 205 110 North Market Wichita, KansasLEASE AND WELL NO. Hallings B #1 COUNTY Clarke STATE Kansas Sec. 14 Twp. 30^S Rge. 22^WMail Inv. To Same as aboveCo. Name " " "Address No. Copies Requested UsualMail Charts To " " "Address No. Copies Requested Usual

Formation Test No. 2 O.K. ☒ Misrun ☐ Interval Tested From 5318 to 5350 Total Depth 5350
Size Main Hole 7 7/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged Yes ☒ No Conv. ☐ B.T. ☒ Damaged Yes ☒ No
Top Packer Depth 5313 Ft. Size 6 3/4 Bottom Packer Depth 5318 Ft. Size 6 3/4
Straddle ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No Packer Depth Ft. Size
Tool Size 5100 Tool Joint Size 4 1/2 FH Anchor Length 32 Ft. Size 5100 Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 5343 Ft. Clock No. 9726 Inside
Top Make Kuster Cap. 4250 No. 1051 Outside
Bottom Make Kuster Cap. 4000 No. 3659 Inside
Below Straddle: Depth Rec. No. Clock No. Inside
Depth Ft. Rec. No. Clock No. Outside

Time Set Packer 8:52 P M

Tool Open I.F.P. From 8:55 P M to 9:25 P M Hr. 30 Min. From (B) 43 46 P.S.I. To (C) 43 47 P.S.I.
Tool Closed I.C.I.P. From 9:25 P M to 10:25 P M Hr. — Min. (D) 1387 1390 P.S.I.
Tool Open F.F.P. From 10:25 P M to 11:55 P M Hr. 30 Min. From (E) 96 95 P.S.I. To (F) 107 111 P.S.I.
Tool Closed F.C.I.P. From 11:55 P M to 12:55 P M Hr. — Min. (G) 1179 1233 P.S.I.
Initial Hydrostatic Pressure (A) 2883 P.S.I. Final Hydrostatic Pressure (H) 2830 P.S.I. Maximum Temp. 120

INFORMATION

BLOW Weak Increased To StrongDid Well Flow ☐ Yes ☒ No Recovery Total Ft. 1150' gas in pipe.155' gas + slightly oil cut mud - 20% gas - 20% oil - 60% mud.62' Very heavy mud cut gassy oil - 25% gas - 50% oil 29% water 23% mudReversed Out ☐ Yes ☒ No Mud Type Starch Viscosity 50 Weight 9.7 Water Loss 14.4 cc. Chlorides 48.000 ppmEXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Jars: Size 4200 In. Make W.T.C. Ser. No. 408Dual Packers Yes Did Packers Hold? Yes Did Tool Plug? Where? DRILLING CONTRACTOR Pickrell Drilling Co. Rig #1 Length Drill Pipe 5104 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 In.Length Weight Pipe ft. I.D. Weight Pipe In. Tool Joint Size 4 1/2 In. Length Drill Collars 184 ft. I.D. Drill Collars 2 1/4 In.Tool Joint Size In. Length D.S.T. Tool 62 ft.Remarks

INVOICE SECTION

Open Hole Test	\$ <u>425.00</u>
Straddle Test	\$ <u> </u>
Jars	\$ <u>165.00</u>
Selective Zone	\$ <u> </u>
Safety Joint	\$ <u> </u>
Misrun	\$ <u> </u>
Evaluation	\$ <u> </u>
Packer	\$ <u> </u>
Circ. Sub.	\$ <u> </u>
Total	\$ <u>590.00</u>

COMPANY TERMS

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All charges subject to 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Brad Pine
Signature of Customer or his
Authorized RepresentativeWestern Representative May KnipeOperator's Time Thank You Hrs.



INC.

P. O. Box 1599
Wichita, Kansas 67201

Company Pickrell Drilling Company Lease & Well No. Hallings B-#1
Elevation 2405 Kelly Bush. Formation Morrow Effective Pay 10 Ft. Ticket No. 25599
Date 8-6-76 Sec. 14 Twp. 30S Range 22W County Clarke State Kansas
Test Approved by Brad Rine Western Representative Max Knife
Formation Test No. 2 O.K. ☒ Misrun ☐ Interval Tested From 5318' to 5350' Total Depth 5350'
Size Main Hole 7 7/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No
Top Packer Depth 5313 Ft. Size 6 3/4 Bottom Packer Depth 5318 Ft. Size 6 3/4
Straddle ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No Packer Depth ☐ Ft. Size ☐
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 32 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 5343 Ft. Clock No. 9726 Depth 5346 Ft. Clock No. 10168
Top Make Kuster Cap. 4250 No. 1051 Inside ☐ Outside ☒ Bottom Make Kuster Cap. 4000 No. 3659 Inside ☐ Outside ☒
Below Straddle: Depth ☐ Rec. No. ☐ Clock No. ☐ Inside ☐ Outside ☐ Depth ☐ Ft. Rec. No. ☐ Clock No. ☐ Inside ☐ Outside ☐
Time Set Packer 8:52P. M
Tool Open I.F.P. From 8:55P M. to 9:25 M. - Hr. 30 Min. From (B) 46 P.S.I. To (C) 47 P.S.I.
Tool Closed I.C.I.P. From 9:25P M. to 10:25P M. 1 Hr. - Min (D) 1390 P.S.I.
Tool Open F.F.P. From 10:25P M. to 11:55P M. 1 Hr. 30 Min. From (E) 95 P.S.I. To (F) 111 P.S.I.
Tool Closed F.C.I.P. From 11:55P M. to 12:55A M. 1 Hr. - Min. (G) 1233 P.S.I.
Initial Hydrostatic Pressure (A) 2873 P.S.I. Final Hydrostatic Pressure (H) 2798 P.S.I. Maximum Temp. 120

INFORMATION

BLOW Weak blow increasing to a strong blow throughout test.

Did Well Flow ☐ Yes ☒ No Recovery Total Ft. 1150' of gas in pipe. 155' gas and slightly oil cut mud
(20% gas, 20% oil, 60% mud) 62' of very heavy mud cut gassy oil (25% gas,
50% oil, 23% mud)

Reversed Out ☐ Yes ☒ No Mud Type Starch Viscosity 50 Weight 9.7 Water Loss 14.4 cc. Chlorides 48000 PPM

EXTRA EQUIPMENT: Type Circ. Sub. PIN Safety Joint ☐ Jars: Size 4 1/2 OD In. Make WTC Ser. No. 408

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -

DRILLING CONTRACTOR Pickrell Drllg. Co. Length Drill Pipe? 5104 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 In.

Length Weight Pipe ☐ Ft. I.D. Weight Pipe ☐ In. Tool Joint Size 4 1/2 XH In. Length Drill Collars 184 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size ☐ In. Length D.S.T. Tool 62 Ft.

Remarks:

WESTERN TESTING CO., INC.

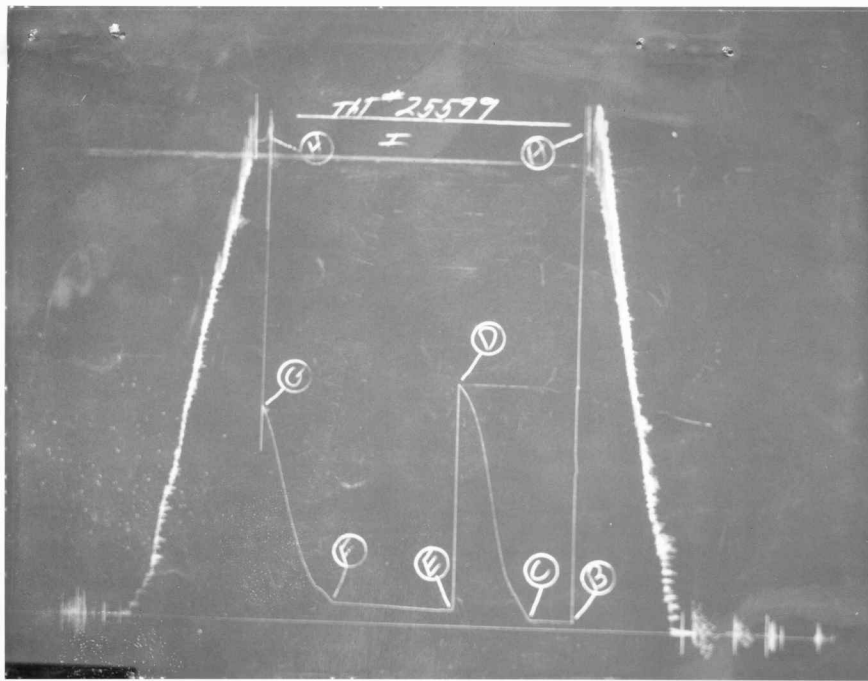
Pressure Data

Date 8-6-76 Test Ticket No. 25599
Recorder No. 1051 Capacity 4250 Location 5343 Ft.
Clock No. 9726 Elevation 2405 Kelly Bushing Well Temperature 120 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2873</u> P.S.I.	<u>8:52 P.</u>	<u>M</u>
B First Initial Flow Pressure	<u>46</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>47</u> P.S.I.	<u>60</u> Mins.	<u>63</u> Mins.
D Initial Closed-in Pressure	<u>1390</u> P.S.I.	<u>90</u> Mins.	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>95</u> P.S.I.	<u>60</u> Mins.	<u>63</u> Mins.
F Second Final Flow Pressure	<u>111</u> P.S.I.		
G Final Closed-in Pressure	<u>1233</u> P.S.I.		
H Final Hydrostatic Mud	<u>2798</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>21</u> Inc.		Breakdown: <u>18</u> Inc.		Breakdown: <u>21</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>46</u>	<u>0</u>	<u>47</u>	<u>0</u>	<u>95</u>	<u>0</u>	<u>111</u>
P 2 <u>5</u>	<u>46</u>	<u>3</u>	<u>79</u>	<u>5</u>	<u>92</u>	<u>3</u>	<u>123</u>
P 3 <u>10</u>	<u>46</u>	<u>6</u>	<u>114</u>	<u>10</u>	<u>92</u>	<u>6</u>	<u>146</u>
P 4 <u>15</u>	<u>46</u>	<u>9</u>	<u>148</u>	<u>15</u>	<u>90</u>	<u>9</u>	<u>170</u>
P 5 <u>20</u>	<u>47</u>	<u>12</u>	<u>188</u>	<u>20</u>	<u>92</u>	<u>12</u>	<u>187</u>
P 6 <u>25</u>	<u>47</u>	<u>15</u>	<u>226</u>	<u>25</u>	<u>94</u>	<u>15</u>	<u>199</u>
P 7 <u>30</u>	<u>47</u>	<u>18</u>	<u>271</u>	<u>30</u>	<u>96</u>	<u>18</u>	<u>230</u>
P 8		<u>21</u>	<u>336</u>	<u>35</u>	<u>98</u>	<u>21</u>	<u>271</u>
P 9		<u>24</u>	<u>429</u>	<u>40</u>	<u>98</u>	<u>24</u>	<u>323</u>
P10		<u>27</u>	<u>528</u>	<u>45</u>	<u>101</u>	<u>27</u>	<u>380</u>
P11		<u>30</u>	<u>640</u>	<u>50</u>	<u>103</u>	<u>30</u>	<u>441</u>
P12		<u>33</u>	<u>751</u>	<u>55</u>	<u>104</u>	<u>33</u>	<u>506</u>
P13		<u>36</u>	<u>855</u>	<u>60</u>	<u>105</u>	<u>36</u>	<u>585</u>
P14		<u>39</u>	<u>961</u>	<u>65</u>	<u>107</u>	<u>39</u>	<u>658</u>
P15		<u>42</u>	<u>1054</u>	<u>70</u>	<u>108</u>	<u>42</u>	<u>751</u>
P16		<u>45</u>	<u>1135</u>	<u>75</u>	<u>109</u>	<u>45</u>	<u>848</u>
P17		<u>48</u>	<u>1205</u>	<u>80</u>	<u>110</u>	<u>48</u>	<u>934</u>
P18		<u>51</u>	<u>1258</u>	<u>85</u>	<u>111</u>	<u>51</u>	<u>1017</u>
P19		<u>54</u>	<u>1304</u>	<u>90</u>	<u>111</u>	<u>54</u>	<u>1097</u>
P20		<u>57</u>	<u>1340</u>			<u>57</u>	<u>1162</u>
WTC - 4		<u>60</u>	<u>1370</u>			<u>60</u>	<u>1217</u>
		<u>63</u>	<u>1390</u>			<u>63</u>	<u>1233</u>





P. O. BOX 793
GREAT BEND, KANSAS

PHONE 793-7903

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET 25600

Formation Morrow Elevation 2405 KB Eff. Pay — Ft.

District Pratt

Date 8-7-76

Customer Order No. —

COMPANY NAME Pickrell Drilling Company

ADDRESS Litwin Bldg. Suite 205 110 North Market Wichita, Kansas

LEASE AND WELL NO. Hallings B¹ COUNTY Clarke STATE Kansas Sec. 14 Twp 30^S Rge. 22^W

Mail Inv. To Same as above

No. Copies Requested Usual

Co. Name " "

Address " "

Mail Charts To " "

No. Copies Requested Usual

Address " "

Formation Test No. 3 O.K. ☒ Misrun ☐ Interval Tested From 5353 to 5370 Total Depth 5370
Size Main Hole 7 7/8 Rat Hole — Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No
Top Packer Depth 5348 Ft. Size 6 3/4 Bottom Packer Depth 5353 Ft. Size 6 3/4
Straddle — Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No Packer Depth — Ft. Size —
Tool Size 5/200 Tool Joint Size 4 1/2 FH Anchor Length 17 Ft. Size 5/200 Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 5362 Ft. Clock No. 6897 Depth 5365 Ft. Clock No. 10168
Top Make Kuster Cap. 4250 No. 1051 Inside — Bottom Make Kuster Cap. 4000 No. 3659 Outside —
Below Straddle: Depth — Rec. No. — Clock No. — Outside — Depth — Ft. Rec. No. — Clock No. — Outside —

Time Set Packer 4:12 P M
Tool Open I.F.P. From 4:15 P M to 4:45 P M — Hr. 30 Min. From (B) 32 30 P.S.I. To (C) 53 47 P.S.I.
Tool Closed I.C.I.P. From 4:45 P M to 5:45 P M 1 Hr. — Min. (D) 1738 1740 P.S.I.
Tool Open F.F.P. From 5:45 P M to 7:15 P M 1 Hr. 30 Min. From (E) 107 99 P.S.I. To (F) 129 130 P.S.I.
Tool Closed F.C.I.P. From 7:15 P M to 8:15 P M 1 Hr. — Min. (G) 1728 1725 P.S.I.
Initial Hydrostatic Pressure (A) 2916 2918 P.S.I. Final Hydrostatic Pressure (H) 2840 2817 P.S.I. Maximum Temp. 122

INFORMATION

BLOW Weak blow through out. 3/4"

Did Well Flow Yes ☒ No ☐ Recovery Total Ft. 210' Muddy water.

Reversed Out Yes ☒ No ☐ Mud Type Starch-Salt Viscosity 52 Weight 9.9 Water Loss 12.6 cc. Chlorides 48,000 PPM
EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint — Jars: Size 4200 In. Make W.T.C. Ser. No. 408
Dual Packers Yes Did Packers Hold? Yes Did Tool Plug? NO Where? 5079
DRILLING CONTRACTOR Pickrell Drilling Co Rig #1 Length Drill Pipe 5079 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 In.
Length Weight Pipe — ft. I.D. Weight Pipe — In. Tool Joint Size 4 1/2 In. Length Drill Collars 245 ft. I.D. Drill Collars 24 In.
Tool Joint Size — In. Length D.S.T. Tool 46 ft.

Remarks

INVOICE SECTION

Open Hole Test	\$ <u>425.00</u>
Straddle Test	\$ <u>—</u>
Jars	\$ <u>165.00</u>
Selective Zone	\$ <u>—</u>
Safety Joint	\$ <u>—</u>
Misrun	\$ <u>—</u>
Evaluation	\$ <u>—</u>
Packer	\$ <u>—</u>
Circ. Sub.	\$ <u>—</u>
Total	\$ <u>590.00</u>

COMPANY TERMS

Western Testing Co., Inc., shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Brad Pine
Signature of Customer or his
Authorized Representative

Western Representative Paul Barragan

Operator's Time Thank-you Hrs.

WESTERN TESTING CO., INC.

Pressure Data

8-7-76

Test Ticket No. 25600

der No. 1051 Capacity 4250 Location 5362 Ft.

No. 6897 Elevation 2405 AB Well Temperature 122 °F

Pressure			Time	
			Given	Computed
Initial Hydrostatic Mud	2918	P.S.I.	4:12 P	M
First Initial Flow Pressure	30	P.S.I.	30	Mins. 35 Mins.
First Final Flow Pressure	47	P.S.I.	40	Mins. 60 Mins.
Initial Closed-in Pressure	1740	P.S.I.	90	Mins. 85 Mins.
Second Initial Flow Pressure	99	P.S.I.	60	Mins. 60 Mins.
Second Final Flow Pressure	130	P.S.I.		
Final Closed-in Pressure	1725	P.S.I.		
Final Hydrostatic Mud	2817	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 7 Inc.		Breakdown: 20 Inc.		Breakdown: 17 Inc.		Breakdown: 20 Inc.	
of 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 mins. and a	
final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.	
Point	Press.	Point	Press.	Point	Press.	Point	Press.
Minutes		Minutes		Minutes		Minutes	
0	30	0	47	0	99	0	130
5	36	3	159	5	99	3	241
10	31	6	474	10	100	6	532
15	34	9	942	15	101	9	881
20	37	12	1562	20	103	12	1399
25	41	15	1643	25	105	15	1597
30	45	18	1673	30	108	18	1643
35	47	21	1691	35	110	21	1665
40		24	1703	40	112	24	1677
45		27	1711	45	113	27	1685
50		30	1718	50	115	30	1694
55		33	1722	55	117	33	1700
60		36	1725	60	120	36	1707
		39	1728	65	122	39	1711
		42	1732	70	124	42	1714
		45	1733	75	127	45	1716
		48	1735	80	130	48	1719
		51	1736	85	130	51	1721
		54	1738	90		54	1723
		57	1739			57	1724
		60	1740			60	1725



INC.

P. O. Box 1599
Wichita, Kansas 67201

Company Pickrell Drilling Company Lease & Well No. Hallings B-#1
Elevation 2405 Kelly Bush. Formation Morrow Effective Pay - Ft. Ticket No. 25600
Date 8-7-76 Sec. 14 Twp. 30S Range 22W County Clarke State Kansas
Test Approved by Brad Rine Western Representative Paul Barragan
Formation Test No. 3 O.K. X Misrun - Interval Tested From 5353' to 5370' Total Depth 5370'
Size Main Hole 7 7/8 Rat Hole - Conv. - B.T. X Damaged - Yes X No Conv. - B.T. X Damaged - Yes X No
Top Packer Depth 5348 Ft. Size 6 3/4 Bottom Packer Depth 5353 Ft. Size 6 3/4
Straddle - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 17 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 5362 Ft. Clock No. 6897 Depth 5365 Ft. Clock No. 10168
Top Make Kuster Cap. 4250 No. 1051 Inside Bottom Make Kuster Cap. 4000 No. 3659 Inside
Below Straddle: Depth - Rec. No. - Clock No. - Depth - Ft. Rec. No. - Clock No. -
Time Set Packer 4:12 P. M
Tool Open I.F.P. From 4:15P M. to 4:45P M. - Hr. 30 Min. From (B) 30 P.S.I. To (C) 47 P.S.I.
Tool Closed I.C.I.P. From 4:45P M. to 5:45P M. - Hr. 60 Min (D) 1740 P.S.I.
Tool Open F.F.P. From 5:45P M. to 7:15P M. 1 Hr. 30 Min. From (E) 99 P.S.I. To (F) 130 P.S.I.
Tool Closed F.C.I.P. From 7:15P M. to 8:15P M. - Hr. 60 Min. (G) 1725 P.S.I.
Initial Hydrostatic Pressure (A) 2918 P.S.I. Final Hydrostatic Pressure (H) 2817 P.S.I. Maximum Temp. 122

INFORMATION

BLOW Weak blow throughout test.Did Well Flow - Yes X No Recovery Total Ft. 210' of muddy water.Reversed Out - Yes X No Mud Type Starch ^{-Salt} Viscosity 52 Weight 9.9 Water Loss 12.6 cc. Chlorides 48000 PPMEXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size 4 1/2 OD In. Make WTC Ser. No. 408Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -DRILLING CONTRACTOR Pickrell Drlg. Co. Length Drill Pipe? 5079 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 InLength Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size 4 1/2 XH In. Length Drill Collars 245 Ft. I.D. Drill Collars 2 1/4 InTool Joint Size - In. Length D.S.T. Tool 46 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 8-7-76

Test Ticket No. 25600

Recorder No. 1051 Capacity 4250 Location 5362 Ft.

Clock No. 6897 Elevation 2405 Kelly Bushing Well Temperature 122 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2918</u> P.S.I.	Open Tool	<u>4:12P.</u> M	
B First Initial Flow Pressure	<u>30</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>35</u> Mins.
C First Final Flow Pressure	<u>47</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1740</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>85</u> Mins.
E Second Initial Flow Pressure	<u>99</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>130</u> P.S.I.			
G Final Closed-in Pressure	<u>1725</u> P.S.I.			
H Final Hydrostatic Mud	<u>2817</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>7</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>17</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>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>30</u>	<u>0</u>	<u>47</u>	<u>0</u>	<u>99</u>	<u>0</u>	<u>130</u>
P 2 <u>5</u>	<u>30</u>	<u>3</u>	<u>159</u>	<u>5</u>	<u>99</u>	<u>3</u>	<u>241</u>
P 3 <u>10</u>	<u>31</u>	<u>6</u>	<u>474</u>	<u>10</u>	<u>100</u>	<u>6</u>	<u>532</u>
P 4 <u>15</u>	<u>34</u>	<u>9</u>	<u>942</u>	<u>15</u>	<u>101</u>	<u>9</u>	<u>881</u>
P 5 <u>20</u>	<u>37</u>	<u>12</u>	<u>1562</u>	<u>20</u>	<u>103</u>	<u>12</u>	<u>1399</u>
P 6 <u>25</u>	<u>41</u>	<u>15</u>	<u>1643</u>	<u>25</u>	<u>105</u>	<u>15</u>	<u>1597</u>
P 7 <u>30</u>	<u>45</u>	<u>18</u>	<u>1673</u>	<u>30</u>	<u>108</u>	<u>18</u>	<u>1643</u>
P 8 <u>35</u>	<u>47</u>	<u>21</u>	<u>1691</u>	<u>35</u>	<u>110</u>	<u>21</u>	<u>1665</u>
P 9		<u>24</u>	<u>1703</u>	<u>40</u>	<u>112</u>	<u>24</u>	<u>1677</u>
P10		<u>27</u>	<u>1711</u>	<u>45</u>	<u>113</u>	<u>27</u>	<u>1685</u>
P11		<u>30</u>	<u>1718</u>	<u>50</u>	<u>115</u>	<u>30</u>	<u>1694</u>
P12		<u>33</u>	<u>1722</u>	<u>55</u>	<u>117</u>	<u>33</u>	<u>1700</u>
P13		<u>36</u>	<u>1725</u>	<u>60</u>	<u>120</u>	<u>36</u>	<u>1707</u>
P14		<u>39</u>	<u>1728</u>	<u>65</u>	<u>122</u>	<u>39</u>	<u>1711</u>
P15		<u>42</u>	<u>1732</u>	<u>70</u>	<u>124</u>	<u>42</u>	<u>1714</u>
P16		<u>45</u>	<u>1733</u>	<u>75</u>	<u>127</u>	<u>45</u>	<u>1716</u>
P17		<u>48</u>	<u>1735</u>	<u>80</u>	<u>130</u>	<u>48</u>	<u>1719</u>
P18		<u>51</u>	<u>1736</u>	<u>85</u>	<u>130</u>	<u>51</u>	<u>1721</u>
P19		<u>54</u>	<u>1738</u>			<u>54</u>	<u>1723</u>
P20		<u>57</u>	<u>1739</u>			<u>57</u>	<u>1724</u>
		<u>60</u>	<u>1740</u>			<u>60</u>	<u>1725</u>

