



P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 5864

Elevation 1410 K6 Formation K.C. Eff. Pay Ft.

District Augusta

Date July 22 1980

Customer Order No.

COMPANY NAME Rains & Williams Oil Co.

ADDRESS 220 West Douglas 435 Regal Court

LEASE AND WELL NO. Lutton #1 COUNTY Harvey STATE Ka Sec. 9 Twp 24S Rge 2 E

Mail Invoice To Same Co. Name Address No. Copies Requested 1

Mail Charts To Same Address No. Copies Requested 6

Formation Test No. 1 Interval Tested from 2330 ft. to 2385 ft. Total Depth 2385 ft.

Packer Depth 2330 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 2335 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 2335 2405 ft. Recorder Number 2605 Cap. 4150

Bottom Recorder Depth (Outside) 2338 ft. Recorder Number 10980 Cap. 4200

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Co Tools # 3 Drill Collar Length 420 I. D. in.

Mud Type Chem Viscosity 39 Weight Pipe Length I. D. in.

Weight 9.5 Water Loss 20 cc. Drill Pipe Length 1889 I. D. in.

Chlorides 2300 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.

Jars: Make NO Serial Number Anchor Length 55 ft. Size 5 1/2 in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Very Weak died in 3 min. first flow, NO slow second flow

Recovered 4 ft. of mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

On location 3 AM, Pickup Tools 3:30 AM

Time Set Packer(s) 5 AM A.M. Time Started Off Bottom 7: AM A.M. Maximum Temperature 98

Initial Hydrostatic Pressure (A) 1130 P.S.I.

Initial Flow Period Minutes 30 (B) 31 P.S.I. to (C) 31 P.S.I.

Initial Closed In Period Minutes 30 (D) 549 P.S.I.

Final Flow Period Minutes 30 (E) 42 P.S.I. to (F) 42 P.S.I.

Final Closed In Period Minutes 30 (G) 684 P.S.I.

Final Hydrostatic Pressure (H) 1130 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages 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, of 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 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Craig Canby Signature of Customer or his authorized representative

Western Representative Kenny Burkendall

FIELD INVOICE

Open Hole Test \$ 550.00
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
35 Mileage \$ 26.25
Fluid Sampler \$
Extra Charts \$

TOTAL \$ 576.25

WESTERN TESTING CO., INC.

Pressure Data

Date 7-22-80 Test Ticket No. 5864
 Recorder No. 2605 Capacity 4150 Location 2335 Ft.
 Clock No. _____ Elevation 1410 K.B. Well Temperature 98 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1151</u> P.S.I.	Open Tool	<u>5:00 A</u> M	
B First Initial Flow Pressure	<u>31</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>24</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>36</u> Mins.
D Initial Closed-in Pressure	<u>550</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>42</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>36</u> Mins.
F Second Final Flow Pressure	<u>34</u> P.S.I.			
G Final Closed-in Pressure	<u>676</u> P.S.I.			
H Final Hydrostatic Mud	<u>1135</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 12 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

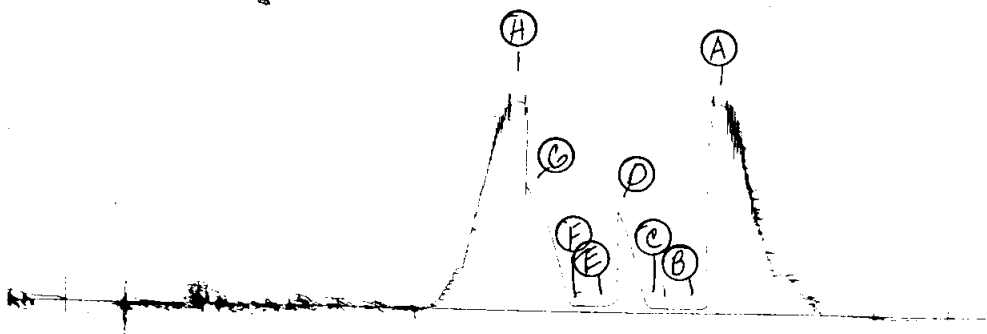
Second Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 12 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 0	<u>31</u>	0	<u>24</u>	0	<u>42</u>	0	<u>34</u>
P 2 5	<u>24</u>	3	<u>24</u>	5	<u>36</u>	3	<u>53</u>
P 3 10	<u>24</u>	6	<u>24</u>	10	<u>34</u>	6	<u>116</u>
P 4 15	<u>24</u>	9	<u>24</u>	15	<u>34</u>	9	<u>207</u>
P 5 20	<u>24</u>	12	<u>36</u>	20	<u>34</u>	12	<u>284</u>
P 6 25	<u>24</u>	15	<u>76</u>	25	<u>34</u>	15	<u>360</u>
P 7 30	<u>24</u>	18	<u>150</u>	30	<u>34</u>	18	<u>424</u>
P 8 35		21	<u>258</u>	35		21	<u>481</u>
P 9 40		24	<u>335</u>	40		24	<u>533</u>
P10 45		27	<u>405</u>	45		27	<u>577</u>
P11 50		30	<u>466</u>	50		30	<u>614</u>
P12 55		33	<u>511</u>	55		33	<u>641</u>
P13 60		36	<u>550</u>	60		36	<u>676</u>
P14		39		65		39	
P15		42		70		42	
P16		45		75		45	
P17		48		80		48	
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	

2605

TR#5864
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Company Rains & Williamson Oil Co., Inc.

Elevation 1410 Kelly Bushing Formation Kansas City

Lease & Well No. Litton #1

Date 7-22-80 Sec. 9 Twp. 24S Range 2E Effective Pay - Ft. Ticket No. 5864

Test Approved by Craig Caulk County Harvey State Kansas

Western Representative Kenny Kirkendall

Formation Test No. #1 Interval Tested from 2330 ft. to 2385 ft. Total Depth 2385 ft.

Packer Depth 2330 ft. Size 6 3/4 in.

Packer Depth 2335 ft. Size 6 3/4 in.

Packer Depth - ft. Size - in.

Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2335 ft.

Recorder Number 2605 Cap. 4150

Bottom Recorder Depth (Outside) 2338 ft.

Recorder Number 10980 Cap. 4200

Below Straddle Recorder Depth - ft.

Recorder Number - Cap. -

Drilling Contractor Rains & Williamson Drlg. Co.

Drill Collar Length 420 I. D. - in.

Mud Type Chemical Viscosity 39

Weight Pipe Length - I. D. - in.

Weight 9.5 Water Loss 20 cc.

Drill Pipe Length 1889 I. D. - in.

Chlorides 2300 P.P.M.

Test Tool Length 21 ft. Tool Size 5 1/2 in.

Jars: Make - Serial Number -

Anchor Length 55 ft. Size 5 1/2 in.

Did Well Flow? - Reversed Out -

Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Very weak blow, died in three minutes on first flow period. No blow on second flow period.

Recovered 4 ft. of Mud

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks:

Time Set Packer(s) 5:00 A.M. Time Started Off Bottom 7:00 A.M. Maximum Temperature 98

Initial Hydrostatic Pressure (A) 1151 P.S.I.

Initial Flow Period Minutes 30 (B) 31 P.S.I. to (C) 24 P.S.I.

Initial Closed In Period Minutes 36 (D) 550 P.S.I.

Initial Flow Period Minutes 30 (E) 42 P.S.I. to (F) 34 P.S.I.

Initial Closed In Period Minutes 36 (G) 676 P.S.I.

Initial Hydrostatic Pressure (H) 1135 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 7-22-80
 Recorder No. 2605 Capacity 4150 Test Ticket No. 5864
 Clock No. -- Elevation 1410 Kelly Bushing Location 2335 Ft. --
 Well Temperature 98 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1151	P.S.I.	5:00 A. M.	
B First Initial Flow Pressure	31	P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	24	P.S.I.	30 Mins.	36 Mins.
D Initial Closed-in Pressure	550	P.S.I.	30 Mins.	30 Mins.
E Second Initial Flow Pressure	42	P.S.I.	30 Mins.	36 Mins.
F Second Final Flow Pressure	34	P.S.I.		
G Final Closed-in Pressure	676	P.S.I.		
H Final Hydrostatic Mud	1135	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 12 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 12 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>31</u>	<u>0</u>	<u>24</u>	<u>0</u>	<u>42</u>	<u>0</u>	<u>34</u>
P 2 <u>5</u>	<u>24</u>	<u>3</u>	<u>24</u>	<u>5</u>	<u>36</u>	<u>3</u>	<u>53</u>
P 3 <u>10</u>	<u>24</u>	<u>6</u>	<u>24</u>	<u>10</u>	<u>34</u>	<u>6</u>	<u>116</u>
P 4 <u>15</u>	<u>24</u>	<u>9</u>	<u>24</u>	<u>15</u>	<u>34</u>	<u>9</u>	<u>207</u>
P 5 <u>20</u>	<u>24</u>	<u>12</u>	<u>36</u>	<u>20</u>	<u>34</u>	<u>12</u>	<u>284</u>
P 6 <u>25</u>	<u>24</u>	<u>15</u>	<u>76</u>	<u>25</u>	<u>34</u>	<u>15</u>	<u>360</u>
P 7 <u>30</u>	<u>24</u>	<u>18</u>	<u>150</u>	<u>30</u>	<u>34</u>	<u>18</u>	<u>424</u>
P 8		<u>21</u>	<u>258</u>			<u>21</u>	<u>481</u>
P 9		<u>24</u>	<u>335</u>			<u>24</u>	<u>533</u>
P10		<u>27</u>	<u>405</u>			<u>27</u>	<u>577</u>
P11		<u>30</u>	<u>466</u>			<u>30</u>	<u>614</u>
P12		<u>33</u>	<u>511</u>			<u>33</u>	<u>641</u>
P13		<u>36</u>	<u>550</u>			<u>36</u>	<u>676</u>
P14							
P15							
P16							
P17							
P18							
P19							
P20							



P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No. 5865
Elevation 14101 Bushing Formation Kansas Eff. Pay _____ Ft.

District Augusta Date July 22, 1980 Customer Order No. _____
COMPANY NAME Bains & Williamson Oil Co. Inc.
ADDRESS 280 West Douglas, 435 Page Court Wichita, Ks.
LEASE AND WELL NO. Lutton #1 COUNTY Harvey STATE Ks Sec 9 Twp 24S Rge 2E
Mail Invoice To Same Co. Name _____ Address _____ No. Copies Requested 1
Mail Charts To Same Address _____ No. Copies Requested 5

Formation Test No. 2 Interval Tested from 2514 ft. to 2540 ft. Total Depth 2540 ft.
Packer Depth 2514 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 2509 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 2519 ft. Recorder Number 2605 Cap. 4150
Bottom Recorder Depth (Outside) 2523 ft. Recorder Number 10980 Cap. 4200
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____

Drilling Contractor Co. Tools #3 Drill Collar Length 420 I. D. _____ in.
Mud Type Chem. Viscosity 36 Weight Pipe Length _____ I. D. _____ in.
Weight 9.7 Water Loss 16.8 cc. Drill Pipe Length 2073 I. D. _____ in.
Chlorides 2400 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.
Jars: Make NU Serial Number _____ Anchor Length 24 ft. Size 5 1/2 in.
Did Well Flow? _____ Reversed Out _____ Surface Choke Size 3 1/4 in. Bottom Choke Size 3 1/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 X H in.

Blow: Weak blow increasing to fair first flow period, fair blow throughout second flow period

Recovered 180 ft. of heavy Oil cut mud 30% oil, 70% mud
Recovered 180 ft. of slightly oil cut muddy salt water chlorides 35,000
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Remarks: Only one chart received

Standby after DST #1 Job completed 5:30 AM

Time Set Packer(s)	Time Started Off Bottom	Maximum Temperature
<u>11:35</u> A.M.	<u>2:20</u> A.M.	<u>106°</u>
Initial Hydrostatic Pressure	(A) <u>1223</u> P.S.I.	
Initial Flow Period	Minutes <u>30</u> (B) <u>52</u> P.S.I. to (C) <u>84</u> P.S.I.	
Initial Closed In Period	Minutes <u>45</u> (D) <u>964</u> P.S.I.	
Final Flow Period	Minutes <u>30</u> (E) <u>137</u> P.S.I. to (F) <u>167</u> P.S.I.	
Final Closed In Period	Minutes <u>60</u> (G) <u>964</u> P.S.I.	
Final Hydrostatic Pressure	(H) <u>1223</u> P.S.I.	

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All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Craig Canale Signature of Customer or his authorized representative

Western Representative Kenny Kirkendall Kenny

FIELD INVOICE

Open Hole Test	\$ <u>550.00</u>
Misrun	\$ _____
Straddle Test	\$ _____
Jars	\$ _____
Selective Zone	\$ _____
Safety Joint	\$ _____
Standby	\$ _____
Evaluation	\$ _____
Extra Packer	\$ _____
Circ. Sub.	\$ _____
Mileage	\$ <u>26.25</u>
Fluid Sampler	\$ _____
Extra Charts	\$ _____
TOTAL	\$ <u>576.25</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 7-12-80 Test Ticket No. 5865
 Recorder No. 2605 Capacity 4150 Location 2519 Ft.
 Clock No. _____ Elevation 1410 R.B. Well Temperature 106 °F

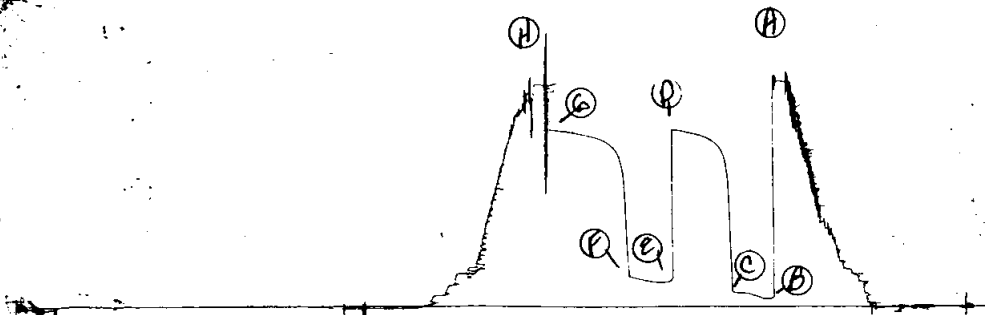
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1217</u> P.S.I.	Open Tool	<u>11:35 P</u> M	
B First Initial Flow Pressure	<u>50</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>80</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>958</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>154</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>40</u> Mins.
F Second Final Flow Pressure	<u>165</u> P.S.I.			
G Final Closed-in Pressure	<u>958</u> P.S.I.			
H Final Hydrostatic Mud	<u>1208</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>15</u> Inc.		Breakdown: <u>6</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>50</u>	<u>0</u>	<u>80</u>	<u>0</u>	<u>154</u>	<u>0</u>	<u>165</u>
P 2 <u>5</u>	<u>46</u>	<u>3</u>	<u>597</u>	<u>5</u>	<u>133</u>	<u>3</u>	<u>483</u>
P 3 <u>10</u>	<u>56</u>	<u>6</u>	<u>769</u>	<u>10</u>	<u>133</u>	<u>6</u>	<u>690</u>
P 4 <u>15</u>	<u>66</u>	<u>9</u>	<u>833</u>	<u>15</u>	<u>137</u>	<u>9</u>	<u>789</u>
P 5 <u>20</u>	<u>76</u>	<u>12</u>	<u>868</u>	<u>20</u>	<u>144</u>	<u>12</u>	<u>839</u>
P 6 <u>25</u>	<u>78</u>	<u>15</u>	<u>885</u>	<u>25</u>	<u>154</u>	<u>15</u>	<u>862</u>
P 7 <u>30</u>	<u>80</u>	<u>18</u>	<u>903</u>	<u>30</u>	<u>165</u>	<u>18</u>	<u>879</u>
P 8 <u>35</u>		<u>21</u>	<u>914</u>	<u>35</u>		<u>21</u>	<u>891</u>
P 9 <u>40</u>		<u>24</u>	<u>923</u>	<u>40</u>		<u>24</u>	<u>904</u>
P10 <u>45</u>		<u>27</u>	<u>930</u>	<u>45</u>		<u>27</u>	<u>912</u>
P11 <u>50</u>		<u>30</u>	<u>936</u>	<u>50</u>		<u>30</u>	<u>918</u>
P12 <u>55</u>		<u>33</u>	<u>940</u>	<u>55</u>		<u>33</u>	<u>923</u>
P13 <u>60</u>		<u>36</u>	<u>943</u>	<u>60</u>		<u>36</u>	<u>928</u>
P14		<u>39</u>	<u>950</u>	<u>65</u>		<u>39</u>	<u>931</u>
P15		<u>42</u>	<u>954</u>	<u>70</u>		<u>42</u>	<u>937</u>
P16		<u>45</u>	<u>958</u>	<u>75</u>		<u>45</u>	<u>939</u>
P17		<u>48</u>		<u>80</u>		<u>48</u>	<u>942</u>
P18		<u>51</u>		<u>85</u>		<u>51</u>	<u>945</u>
P19		<u>54</u>		<u>90</u>		<u>54</u>	<u>948</u>
P20		<u>57</u>				<u>57</u>	<u>952</u>
		<u>60</u>				<u>60</u>	<u>956</u>

WJ #5865
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2605



Company Rains & Williamson Oil Co., Inc. Lease & Well No. Litton #1
Elevation 1410 Kelly Bushing Formation Kansas City Effective Pay ----- Ft. Ticket No. 5865
Date 7-22-80 Sec. 9 Twp 24 S Range 2 E County Harvey State KS
Test Approved by Craig Caulk Western Representative Kenny Kirkendall
Formation Test No. 2 Interval Tested from 2514 ft. to 2540 ft. Total Depth 2540 ft.
Packer Depth 2514 ft. Size 6 3/4 in. Packer Depth ----- ft. Size --- in.
Packer Depth 2509 ft. Size 6 3/4 in. Packer Depth ----- ft. Size ----- in.
Depth of Selective Zone Set -----
Top Recorder Depth (Inside) 2519 ft. Recorder Number 2605 Cap. 4150
Bottom Recorder Depth (Outside) 2523 ft. Recorder Number 10980 Cap. 4200
Below Straddle Recorder Depth ----- ft. Recorder Number ----- Cap. -----
Drilling Contractor Rains & Williamson Drlg. Rig #3 Drill Collar Length 420 I. D. ----- in.
Mud Type Chemical Viscosity 36 Weight Pipe Length ----- I. D. ----- in.
Weight 9.7 Water Loss 16.8 cc. Drill Pipe Length 2073 I. D. ----- in.
Chlorides 2,400 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.
Jars: Make None Serial Number ----- Anchor Length 26 ft. Size 5 1/2 in.
Did Well Flow? ----- Reversed Out ----- Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Weak blow increasing to fair in initial flow period.

Fair blow throughout final flow period.

Recovered 180 ft. of Heavy oil cut mud (30% oil, 70% mud).

Recovered 180 ft. of Slightly oil cut muddy salt water (chlorides 35,000).

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 11:35 ~~AM~~ P.M. Time Started Off Bottom 2:20 ~~PM~~ A.M. Maximum Temperature 106⁰ F.
Initial Hydrostatic Pressure (A) 1217 P.S.I.
Initial Flow Period Minutes 30 (B) 50 P.S.I. to (C) 80 P.S.I.
Initial Closed In Period Minutes 45 (D) 958 P.S.I.
Final Flow Period Minutes 30 (E) 154 P.S.I. to (F) 165 P.S.I.
Final Closed In Period Minutes 60 (G) 956 P.S.I.
Final Hydrostatic Pressure (H) 1208 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 7-22-80 Test Ticket No. 5865
 Recorder No. 2605 Capacity 4150 Location 2519 Ft.
 Clock No. ----- Elevation 1410 Kelly Bushing Well Temperature 106 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1217</u> P.S.I.	Open Tool	<u>11:35 P M</u>	
B First Initial Flow Pressure	<u>50</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>80</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>958</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>154</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>165</u> P.S.I.			
G Final Closed-in Pressure	<u>956</u> P.S.I.			
H Final Hydrostatic Mud	<u>1208</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>15</u> Inc.		Breakdown: <u>6</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>50</u>	<u>0</u>	<u>80</u>	<u>0</u>	<u>154</u>	<u>0</u>	<u>165</u>
P 2 <u>5</u>	<u>46</u>	<u>3</u>	<u>591</u>	<u>5</u>	<u>133</u>	<u>3</u>	<u>483</u>
P 3 <u>10</u>	<u>56</u>	<u>6</u>	<u>769</u>	<u>10</u>	<u>133</u>	<u>6</u>	<u>690</u>
P 4 <u>15</u>	<u>66</u>	<u>9</u>	<u>833</u>	<u>15</u>	<u>137</u>	<u>9</u>	<u>789</u>
P 5 <u>20</u>	<u>76</u>	<u>12</u>	<u>868</u>	<u>20</u>	<u>144</u>	<u>12</u>	<u>839</u>
P 6 <u>25</u>	<u>78</u>	<u>15</u>	<u>885</u>	<u>25</u>	<u>154</u>	<u>15</u>	<u>862</u>
P 7 <u>30</u>	<u>80</u>	<u>18</u>	<u>903</u>	<u>30</u>	<u>165</u>	<u>18</u>	<u>879</u>
P 8 _____		<u>21</u>	<u>914</u>			<u>21</u>	<u>891</u>
P 9 _____		<u>24</u>	<u>923</u>			<u>24</u>	<u>904</u>
P10 _____		<u>27</u>	<u>930</u>			<u>27</u>	<u>912</u>
P11 _____		<u>30</u>	<u>936</u>			<u>30</u>	<u>918</u>
P12 _____		<u>33</u>	<u>940</u>			<u>33</u>	<u>923</u>
P13 _____		<u>36</u>	<u>943</u>			<u>36</u>	<u>928</u>
P14 _____		<u>39</u>	<u>950</u>			<u>39</u>	<u>931</u>
P15 _____		<u>42</u>	<u>954</u>			<u>42</u>	<u>937</u>
P16 _____		<u>45</u>	<u>958</u>			<u>45</u>	<u>939</u>
P17 _____						<u>48</u>	<u>942</u>
P18 _____						<u>51</u>	<u>945</u>
P19 _____						<u>54</u>	<u>948</u>
P20 _____						<u>57</u>	<u>952</u>
						<u>60</u>	<u>956</u>



P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

WESTERN TESTING CO., INC. FORMATION TESTING

TICKET NO 5866

Elevation 1410 Kb

Formation Burgess

Eff. Pay Ft.

District Augusta Date July 24, 1980 Customer Order No. _____
COMPANY NAME Rains & Williamson Oil Co., Inc.
ADDRESS 200 West Douglas
LEASE AND WELL NO Letter #1 COUNTY Harvey STATE Ks Sec. 9 Twp. 24S Rge 2E
Mail Invoice To Same Co. Name _____ Address _____ No. Copies Requested 1
Mail Charts To Same Address _____ No. Copies Requested 5

Formation Test No. 3 Interval Tested from 2800 ft. to 2836 ft. Total Depth 2836 ft.
Packer Depth 2800 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 2796 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 2805 ft. Recorder Number 2605 Cap. 4150
Bottom Recorder Depth (Outside) 2808 ft. Recorder Number 10980 Cap. 4200
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____
Drilling Contractor Co Tools #3 Drill Collar Length 420 I. D. _____ in.
Mud Type Chem Viscosity _____ Weight Pipe Length _____ I. D. _____ in.
Weight 9.5 Water Loss 14.4 cc. Drill Pipe Length 2359 I. D. _____ in.
Chlorides 3400 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.
Jars: Make WC Serial Number _____ Anchor Length 34 ft. Size 5 1/2 in.
Did Well Flow? WC Reversed Out _____ Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 x H in.

Blow: Weak increasing to fair, first flow period, fair throughout second flow period

Recovered 25 ft. of oil cut mud
Recovered 500 ft. of very slightly oil cut muddy salt water
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Remarks:

On location 4: AM Pick up tools 6 AM, Job completed

Time Set Packer(s) 800 A.M. Time Started Off Bottom 10:45 A.M. Maximum Temperature 109
Initial Hydrostatic Pressure _____ (A) 1358 P.S.I.
Initial Flow Period _____ Minutes 30 (B) 179.52 P.S.I. to (C) 179 P.S.I.
Initial Closed In Period _____ Minutes 45 (D) 725 P.S.I.
Final Flow Period _____ Minutes 30 (E) 232 P.S.I. to (F) 254 P.S.I.
Final Closed In Period _____ Minutes 60 (G) 735 P.S.I.
Final Hydrostatic Pressure _____ (H) 1358 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages 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, of 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 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Kenny Kirkendall
Signature of Customer or his authorized representative

Western Representative Kenny Kirkendall

FIELD INVOICE

Open Hole Test \$ 350.00
Misrun \$ _____
Straddle Test \$ _____
Jars \$ _____
Selective Zone \$ _____
Safety Joint \$ _____
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ _____
35 Mileage \$ 26.25
Fluid Sampler \$ _____
Extra Charts \$ _____

TOTAL \$ 576.25

WESTERN TESTING CO., INC.

Pressure Data

Date 7-24-80 Test Ticket No. 5866
 Recorder No. 2605 Capacity 4150 Location ~~2885~~ 2885 Ft.
 Clock No. - Elevation 1410 K.B. Well Temperature 109 °F
 Point Pressure Time Given Time Computed
 A Initial Hydrostatic Mud 1352 P.S.I. Open Tool 8:00 M
 B First Initial Flow Pressure 52 P.S.I. First Flow Pressure 30 Mins. 30 Mins.
 C First Final Flow Pressure 186 P.S.I. Initial Closed-in Pressure 45 Mins. 45 Mins.
 D Initial Closed-in Pressure 736 P.S.I. Second Flow Pressure 30 Mins. 30 Mins.
 E Second Initial Flow Pressure 239 P.S.I. Final Closed-in Pressure 60 Mins. 12 Mins.
 F Second Final Flow Pressure 258 P.S.I.
 G Final Closed-in Pressure 742 P.S.I.
 H Final Hydrostatic Mud 1339 P.S.I.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In		
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>24</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	52	0	186	0	239	0	258
P 2	5	65	3	634	5	235	3	626
P 3	10	80	6	669	10	235	6	673
P 4	15	105	9	692	15	239	9	692
P 5	20	141	12	704	20	246	12	707
P 6	25	169	15	713	25	254	15	717
P 7	30	186	18	717	30	258	18	721
P 8	35		21	721	35		21	725
P 9	40		24	725	40		24	728
P 10	45		27	728	45		27	730
P 11	50		30	730	50		30	733
P 12	55		33	732	55		33	734
P 13	60		36	733	60		36	735
P 14			39	734	65		39	736
P 15			42	735	70		42	737
P 16			45	736	75		45	738
P 17			48		80		48	738
P 18			51		85		51	739
P 19			54		90		54	739
P 20			57				57	740
			60				60	740

WESTERN TESTING CO., INC.

Pressure Data

Date _____

Test Ticket No. 5866

Recorder No. _____ Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud _____	P.S.I.	Open Tool	M _____	
B First Initial Flow Pressure _____	P.S.I.	First Flow Pressure	Mins. _____	Mins. _____
C First Final Flow Pressure _____	P.S.I.	Initial Closed-in Pressure	Mins. _____	Mins. _____
D Initial Closed-in Pressure _____	P.S.I.	Second Flow Pressure	Mins. _____	Mins. _____
E Second Initial Flow Pressure _____	P.S.I.	Final Closed-in Pressure	Mins. _____	Mins. _____
F Second Final Flow Pressure _____	P.S.I.			
G Final Closed-in Pressure _____	P.S.I.			
H Final Hydrostatic Mud _____	P.S.I.			

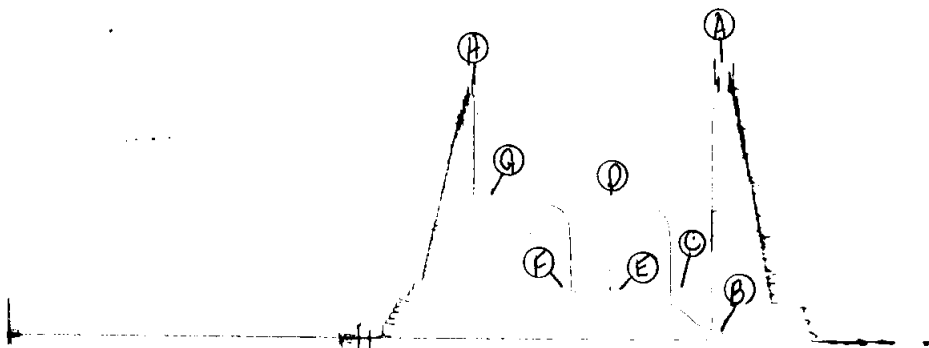
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ 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 _____	_____	63 _____	_____	_____	_____	63 _____	741
P 2 _____	_____	66 _____	_____	_____	_____	66 _____	741
P 3 _____	_____	69 _____	_____	_____	_____	69 _____	742
P 4 _____	_____	72 _____	_____	_____	_____	72 _____	742
P 5 _____	_____	75 _____	_____	_____	_____	75 _____	
P 6 _____	_____	78 _____	_____	_____	_____	78 _____	
P 7 _____	_____	81 _____	_____	_____	_____	81 _____	
P 8 _____	_____	84 _____	_____	_____	_____	84 _____	
P 9 _____	_____	87 _____	_____	_____	_____	87 _____	
P10 _____	_____	90 _____	_____	_____	_____	90 _____	
P11 _____	_____	93 _____	_____	_____	_____	93 _____	
P12 _____	_____	96 _____	_____	_____	_____	96 _____	
P13 _____	_____	99 _____	_____	_____	_____	99 _____	
P14 _____	_____	102 _____	_____	_____	_____	102 _____	
P15 _____	_____	105 _____	_____	_____	_____	105 _____	
P16 _____	_____	108 _____	_____	_____	_____	108 _____	
P17 _____	_____	111 _____	_____	_____	_____	111 _____	
P18 _____	_____	114 _____	_____	_____	_____	114 _____	
P19 _____	_____	117 _____	_____	_____	_____	117 _____	
P20 _____	_____	120 _____	_____	_____	_____	120 _____	

2605

TK# 5866

I



Company Rains & Williamson Oil Company, Inc. Lease & Well No. Litton #1
Elevation 1410 Kelly Bushing Formation Burgess Effective Pay ----- Ft. Ticket No. 5866
Date 7/24/80 Sec. 9 Twp. 24S Range 2E County Harvey State Kansas
Test Approved by Craig Caulk Western Representative Kenny Kirkendall

Formation Test No. 3 Interval Tested from 2800 ft. to 2836 ft. Total Depth 2836 ft.

Packer Depth 2800 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 2790 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2805 ft. Recorder Number 2605 Cap. 4150

Bottom Recorder Depth (Outside) 2808 ft. Recorder Number 10980 Cap. 4200

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Rains & Williamson Drlg Rig #3 Drill Collar Length 420 I. D. - in.

Mud Type chemical Viscosity - Weight Pipe Length - I. D. - in.

Weight 9.5 Water Loss 14.4 cc. Drill Pipe Length 2359 I. D. - in.

Chlorides 3,400 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.

Jars: Make No Serial Number - Anchor Length 36 ft. Size 5 1/2 in.

Did Well Flow? No Reversed Out -- Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Weak increasing to fair first flow period; fair throughout second flow period.

Recovered 25 ft. of oil cut mud

Recovered 500 ft. of very slightly oil cut muddy salt water

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks:

Time Set Packer(s) 8:00 A.M. P.M. Time Started Off Bottom 10:45 A.M. P.M. Maximum Temperature 109°

Initial Hydrostatic Pressure (A) 1352 P.S.I.

Initial Flow Period Minutes 30 (B) 52 P.S.I. to (C) 186 P.S.I.

Initial Closed In Period Minutes 45 (D) 736 P.S.I.

Final Flow Period Minutes 30 (E) 239 P.S.I. to (F) 258 P.S.I.

Final Closed In Period Minutes 72 (G) 742 P.S.I.

Final Hydrostatic Pressure (H) 1339 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 7-24-80 Test Ticket No. 5866
Recorder No. 2605 Capacity 4150 Location 2805 Ft.
Clock No. -- Elevation 1410 Kelly Bushing Well Temperature 109 °F
Point **Pressure** **Time Given** **Time Computed**
A Initial Hydrostatic Mud 1352 P.S.I. Open Tool 8:00 M
B First Initial Flow Pressure 52 P.S.I. First Flow Pressure 30 Mins. 30 Mins.
C First Final Flow Pressure 186 P.S.I. Initial Closed-in Pressure 45 Mins. 45 Mins.
D Initial Closed-in Pressure 736 P.S.I. Second Flow Pressure 30 Mins. 30 Mins.
E Second Initial Flow Pressure 239 P.S.I. Final Closed-in Pressure 60 Mins. 72 Mins.
F Second Final Flow Pressure 258 P.S.I.
G Final Closed-in Pressure 742 P.S.I.
H Final Hydrostatic Mud 1339 P.S.I.

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>15</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>24</u> Inc. of <u>3</u> mins. and a 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>52</u>	<u>0</u>	<u>186</u>	<u>0</u>	<u>239</u>	<u>0</u>	<u>258</u>
P 2 <u>5</u>	<u>65</u>	<u>3</u>	<u>634</u>	<u>5</u>	<u>235</u>	<u>3</u>	<u>626</u>
P 3 <u>10</u>	<u>80</u>	<u>6</u>	<u>669</u>	<u>10</u>	<u>235</u>	<u>6</u>	<u>673</u>
P 4 <u>15</u>	<u>105</u>	<u>9</u>	<u>692</u>	<u>15</u>	<u>239</u>	<u>9</u>	<u>692</u>
P 5 <u>20</u>	<u>141</u>	<u>12</u>	<u>704</u>	<u>20</u>	<u>246</u>	<u>12</u>	<u>707</u>
P 6 <u>25</u>	<u>169</u>	<u>15</u>	<u>713</u>	<u>25</u>	<u>254</u>	<u>15</u>	<u>717</u>
P 7 <u>30</u>	<u>186</u>	<u>18</u>	<u>717</u>	<u>30</u>	<u>258</u>	<u>18</u>	<u>721</u>
P 8		<u>21</u>	<u>721</u>			<u>21</u>	<u>725</u>
P 9		<u>24</u>	<u>725</u>			<u>24</u>	<u>728</u>
P10		<u>27</u>	<u>728</u>			<u>27</u>	<u>730</u>
P11		<u>30</u>	<u>730</u>			<u>30</u>	<u>733</u>
P12		<u>33</u>	<u>732</u>			<u>33</u>	<u>734</u>
P13		<u>36</u>	<u>733</u>			<u>36</u>	<u>735</u>
P14		<u>39</u>	<u>734</u>			<u>39</u>	<u>736</u>
P15		<u>42</u>	<u>735</u>			<u>42</u>	<u>737</u>
P16		<u>45</u>	<u>736</u>			<u>45</u>	<u>738</u>
P17						<u>48</u>	<u>738</u>
P18						<u>51</u>	<u>739</u>
P19						<u>54</u>	<u>739</u>
P20						<u>57</u>	<u>740</u>
						<u>60</u>	<u>740</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 7-24-80 Test Ticket No. 5866
 Recorder No. 2605 Capacity 4150 Location 2805 Ft.
 Clock No. -- Elevation 1410 Kelly Bushing Well Temperature 109 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1352</u>	P.S.I.	8:00	M
B First Initial Flow Pressure	<u>52</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>186</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>736</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>239</u>	P.S.I.	<u>60</u> Mins.	<u>72</u> Mins.
F Second Final Flow Pressure	<u>258</u>	P.S.I.		
G Final Closed-in Pressure	<u>742</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1339</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>15</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>24</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>63</u>	<u>741</u>
P 2						<u>66</u>	<u>741</u>
P 3						<u>69</u>	<u>742</u>
P 4						<u>72</u>	<u>742</u>
P 5							
P 6							
P 7							
P 8							
P 9							
P10							
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							