

Company Resource Ventures Corporation Lease & Well No. Ferrell #1
 Elevation 1484 Ground Level Formation Stalneck Effective Pay - Ft. Ticket No. 9953
 Date 9/11/81 Sec. 19 Twp. 32S Range 8W County Harper State Kansas
 Test Approved by Roger C Rhodes Western Representative Robert Davis
 Formation Test No. 1 Interval Tested from 3728 ft. to 3755 ft. Total Depth 3755 ft.
 Packer Depth 3728 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3723 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 3733 ft. Recorder Number 13240 Cap. 4500
 Bottom Recorder Depth (Outside) 3737 ft. Recorder Number 11018 Cap. 4425
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Gabbert-Jones Rig #6 Drill Collar Length 463 I. D. - in.
 Mud Type Premix Viscosity 50 Weight Pipe Length - I. D. - in.
 Weight 9.4 Water Loss 8.8 cc. Drill Pipe Length 3248 I. D. - in.
 Chlorides 20,000 P.P.M. Test Tool Length 19 ft. Tool Size 5 1/2 in.
 Jars: Make No Serial Number - Anchor Length 27 ft. Size 5 1/2 in.
 Did Well Flow? Yes 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: Gas to surface when tool opened. See attached sheet for gas measurements.

Recovered 360 ft. of gas cut mud water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 11:15 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 3:10 ~~P.M.~~ ^{A.M.} Maximum Temperature 119
 Initial Hydrostatic Pressure 1864 P.S.I.
 Initial Flow Period 45 Minutes (B) 123 P.S.I. to (C) 318 P.S.I.
 Initial Closed In Period 60 Minutes (D) 1475 P.S.I.
 Final Flow Period 55 Minutes (E) 368 P.S.I. to (F) 417 P.S.I.
 Final Closed In Period 72 Minutes (G) 1468 P.S.I.
 Final Hydrostatic Pressure 1864 P.S.I.

GAS FLOW REPORT

Date 9/11/81 Ticket 9953 Company Resource Ventures Corporation
 Well Name and No. Ferrell #1 Dst No. 1 Interval Tested 3728-3755
 County Harper State Kansas Sec. 19 Twp. 32S Rg. 8W

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
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PRE FLOW

	15 Min	18 PSIG	1" Orifice			687,000 C.F.P.D.
	25 Min	23 PSIG	1" Orifice			796,000 C.F.P.D.
	35 Min	29 PSIG	1" Orifice			930,000 C.F.P.D.
	45 Min	39 PSIG	1" Orifice			1,114,000 C.F.P.D.
	55 Min	44 PSIG	1" Orifice			1,247,000 C.F.P.D.

SECOND FLOW

	10 Min	39 PSIG	1" Orifice			1,141,000 C.F.P.D.
	20 Min	50 PSIG	1" Orifice			1,379,000 C.F.P.D.
	30 Min	50 PSIG	1" Orifice			1,379,000 C.F.P.D.
	40 Min	50 PSIG	1" Orifice			1,379,000 C.F.P.D.
	50 Min	50 PSIG	1" Orifice			1,379,000 C.F.P.D.
	55 Min	50 PSIG	1" Orifice			1,379,000 C.F.P.D.

GAS BOTTLE

Serial No. 622 Date Bottle Filled 9/11/81 Date to be Invoiced 9/11/81

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 Resource Ventures Corporation

Authorized by Roger C Rhodes

WESTERN TESTING CO., INC.

Pressure Data

Date 9/11/81 Recorder No. 13240 Capacity 4500 Test Ticket No. 9953
 Clock No. - Elevation 1484 Ground Level Location 3733 Ft. 119 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1864</u> P.S.I.	Open Tool	<u>11:15A</u> M	
B First Initial Flow Pressure	<u>123</u> P.S.I.	First Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>318</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1475</u> P.S.I.	Second Flow Pressure	<u>55</u> Mins.	<u>55</u> Mins.
E Second Initial Flow Pressure	<u>368</u> P.S.I.	Final Closed-in Pressure	<u>75</u> Mins.	<u>72</u> Mins.
F Second Final Flow Pressure	<u>417</u> P.S.I.			
G Final Closed-in Pressure	<u>1468</u> P.S.I.			
H Final Hydrostatic Mud	<u>1864</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>11</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>0</u>	<u>123</u>	<u>0</u>	<u>318</u>	<u>0</u>	<u>368</u>	<u>0</u>	<u>417</u>
P 2 <u>5</u>	<u>131</u>	<u>3</u>	<u>1367</u>	<u>5</u>	<u>373</u>	<u>3</u>	<u>1331</u>
P 3 <u>10</u>	<u>175</u>	<u>6</u>	<u>1401</u>	<u>10</u>	<u>375</u>	<u>6</u>	<u>1369</u>
P 4 <u>15</u>	<u>211</u>	<u>9</u>	<u>1419</u>	<u>15</u>	<u>375</u>	<u>9</u>	<u>1390</u>
P 5 <u>20</u>	<u>239</u>	<u>12</u>	<u>1430</u>	<u>20</u>	<u>376</u>	<u>12</u>	<u>1405</u>
P 6 <u>25</u>	<u>275</u>	<u>15</u>	<u>1438</u>	<u>25</u>	<u>377</u>	<u>15</u>	<u>1414</u>
P 7 <u>30</u>	<u>302</u>	<u>18</u>	<u>1446</u>	<u>30</u>	<u>380</u>	<u>18</u>	<u>1423</u>
P 8 <u>35</u>	<u>307</u>	<u>21</u>	<u>1450</u>	<u>35</u>	<u>398</u>	<u>21</u>	<u>1430</u>
P 9 <u>40</u>	<u>315</u>	<u>24</u>	<u>1454</u>	<u>40</u>	<u>411</u>	<u>24</u>	<u>1435</u>
P10 <u>45</u>	<u>318</u>	<u>27</u>	<u>1458</u>	<u>45</u>	<u>415</u>	<u>27</u>	<u>1439</u>
P11		<u>30</u>	<u>1461</u>	<u>50</u>	<u>416</u>	<u>30</u>	<u>1443</u>
P12		<u>33</u>	<u>1463</u>	<u>55</u>	<u>417</u>	<u>33</u>	<u>1446</u>
P13		<u>36</u>	<u>1465</u>			<u>36</u>	<u>1449</u>
P14		<u>30</u>	<u>1467</u>			<u>39</u>	<u>1452</u>
P15		<u>42</u>	<u>1469</u>			<u>42</u>	<u>1454</u>
P16		<u>45</u>	<u>1470</u>			<u>45</u>	<u>1456</u>
P17		<u>48</u>	<u>1471</u>			<u>48</u>	<u>1458</u>
P18		<u>51</u>	<u>1472</u>			<u>51</u>	<u>1460</u>
P19		<u>54</u>	<u>1473</u>			<u>54</u>	<u>1462</u>
P20		<u>57</u>	<u>1474</u>			<u>58</u>	<u>1464</u>
WTC - 4		<u>60</u>	<u>1475</u>			<u>60</u>	<u>1465</u>

CONT'D NEXT PAGE

WESTERN TESTING CO., INC.

Pressure Data

Date 9/11/81 Test Ticket No. 9953
 Recorder No. 13240 Capacity 4500 Location 3733 Ft.
 Clock No. - Elevation 1484 Ground Level Well Temperature 119 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1864</u> P.S.I.	Open Tool	<u>11:15A</u> M	
B First Initial Flow Pressure	<u>123</u> P.S.I.	First Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>318</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1475</u> P.S.I.	Second Flow Pressure	<u>55</u> Mins.	<u>55</u> Mins.
E Second Initial Flow Pressure	<u>368</u> P.S.I.	Final Closed-in Pressure	<u>75</u> Mins.	<u>72</u> Mins.
F Second Final Flow Pressure	<u>417</u> P.S.I.			
G Final Closed-in Pressure	<u>1468</u> P.S.I.			
H Final Hydrostatic Mud	<u>1864</u> P.S.I.			

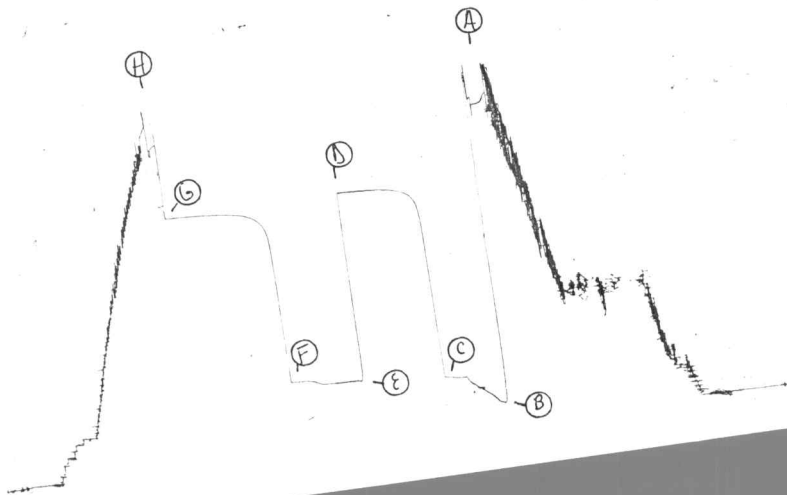
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
Breakdown: <u>9</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>11</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.	
P 1						63	1466
P 2						66	1467
P 3						69	1468
P 4						72	1468
P 5							
P 6							
P 7							
P 8							
P 9							
P10							
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TKT # 9953
I

#9953

18015





P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No

9953

Elevation 1484 GL Formation Stal. Eff. Pay Ft.

District Augusta Date 9-11-81 Customer Order No. new company ??

COMPANY NAME Resource Ventures Corp

ADDRESS 1501 Superior Lincoln Nebr 68521

LEASE AND WELL NO. Ferrell #1 COUNTY Harper STATE Ks Sec. 19 Twp. 32S Rge. 8W

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

Mail Charts To Same Co. Name Address No. Copies Requested 5

Formation Test No. 1 Interval Tested from 3728 ft. to 3755 ft. Total Depth 3755 ft.

Packer Depth 3728 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 3723 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3733 ft. Recorder Number 13240 Cap. 4500

Bottom Recorder Depth (Outside) 3737 ft. Recorder Number 11018 Cap. 4425

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Gabbert - Jones #6 Drill Collar Length 463 I. D. in.

Mud Type Pre Mix Viscosity 50 Weight Pipe Length I. D. in.

Weight 9.4 Water Loss 8.8 cc. Drill Pipe Length 3248 I. D. in.

Chlorides 20,000 P.P.M. Test Tool Length 19 ft. Tool Size 5 1/2 in.

Jars: Make None Serial Number Anchor Length 27 ft. Size 5 1/2 in.

Did Well Flow? Yes 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: Gas to surface When tool opened. See Gas TK 2344
On attached sheet for gas measurements.

Recovered ft. of 4,379,000 gpd gas

Recovered 360 ft. of Gas cut mud water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time On Location 8:00 ⁹⁻¹¹ A.M. Time Pick Up Tool 9:30 A.M.

Time Set Packer(s) 11:15 A.M. Time Started Off Bottom 3:10 A.M.

Time Off Location 7:00 ⁹⁻¹¹ A.M. Maximum Temperature 119°

Initial Hydrostatic Pressure (A) 1859 P.S.I.

Initial Flow Period 45 Minutes (B) 113 P.S.I. to (C) 306 P.S.I.

Initial Closed In Period 60 Minutes (D) 1472 P.S.I.

Final Flow Period 35 Minutes (E) 363 P.S.I. to (F) 409 P.S.I.

Final Closed In Period 75 Minutes (G) 1472 P.S.I.

Final Hydrostatic Pressure (H) 1859 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 Roger C. Under
Signature of Customer or his authorized representative

Western Representative Robert Davis

FIELD INVOICE

Open Hole Test \$ 625.00
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
110 Mileage \$ 82
Fluid Sampler \$
Extra Charts \$
Insurance \$
TOTAL \$

N^o 2344

GAS FLOW REPORT

Date 9-11-81 Ticket 9953 Company Resource Ventures
 Well Name and No. Ferrell #1 Dst No. 1 Interval Tested 3728 to 3755
 County Harper State KS Sec. 19 Twp. 32S Rg. 8W

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
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PRE FLOW

15	18	1"			687,000 cfd
25	23	"			796,000 "
35	29	"			930,000 "
45	39	"			1,114,000 "
55	44	"			1,247,000 "

SECOND FLOW

10	39	1"			1,141,000 "
20	50	"			1,379,000 "
30	50	"			1,379,000 "
40	50	"			1,379,000 "
50	50	"			1,379,000 "
55	50	"			1,379,000 "

GAS BOTTLE

Serial No. C22 Date Bottle Filled 9-11-81 Date to be Invoiced _____

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 1½% per month, equal to 18% 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 Resource VenturesAuthorized by Roger C. Rhodes

WESTERN TESTING CO., INC.

Pressure Data

Date 9-11 Test Ticket No. 9953
 Recorder No. 13240 Capacity 4500 Location 3733 Ft.
 Clock No. --- Elevation 1484 Well Temperature 119 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1864</u> P.S.I.	<u>11:15 A</u>	
B First Initial Flow Pressure	<u>123</u> P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>318</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1475</u> P.S.I.	<u>55</u> Mins.	<u>55</u> Mins.
E Second Initial Flow Pressure	<u>368</u> P.S.I.	<u>75</u> Mins.	<u>72</u> Mins.
F Second Final Flow Pressure	<u>417</u> P.S.I.		
G Final Closed-in Pressure	<u>1468</u> P.S.I.		
H Final Hydrostatic Mud	<u>1864</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>11</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	<u>123</u>	0	<u>318</u>	0	<u>368</u>	0	<u>417</u>
P 2 5	<u>131</u>	3	<u>1367</u>	5	<u>373</u>	3	<u>1331</u>
P 3 10	<u>175</u>	6	<u>1401</u>	10	<u>375</u>	6	<u>1369</u>
P 4 15	<u>211</u>	9	<u>1419</u>	15	<u>375</u>	9	<u>1390</u>
P 5 20	<u>239</u>	12	<u>1430</u>	20	<u>376</u>	12	<u>1405</u>
P 6 25	<u>275</u>	15	<u>1438</u>	25	<u>377</u>	15	<u>1414</u>
P 7 30	<u>302</u>	18	<u>1446</u>	30	<u>380</u>	18	<u>1423</u>
P 8 35	<u>307</u>	21	<u>1450</u>	35	<u>398</u>	21	<u>1430</u>
P 9 40	<u>315</u>	24	<u>1454</u>	40	<u>411</u>	24	<u>1435</u>
P 10 45	<u>318</u>	27	<u>1458</u>	45	<u>415</u>	27	<u>1439</u>
P 11 50		30	<u>1461</u>	50	<u>416</u>	30	<u>1443</u>
P 12 55		33	<u>1463</u>	55	<u>417</u>	33	<u>1446</u>
P 13 60		36	<u>1465</u>	60		36	<u>1449</u>
P 14		39	<u>1467</u>	65		39	<u>1452</u>
P 15		42	<u>1469</u>	70		42	<u>1454</u>
P 16		45	<u>1470</u>	75		45	<u>1456</u>
P 17		48	<u>1471</u>	80		48	<u>1458</u>
P 18		51	<u>1472</u>	85		51	<u>146</u>
P 19		54	<u>1473</u>	90		54	<u>1462</u>
P 20		57	<u>1474</u>			57	<u>1464</u>
		60	<u>1475</u>			60	<u>1465</u>

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WESTERN TESTING CO., INC.

Pressure Data

Date _____

Test Ticket No. 9953

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 _____	1466
P 2 _____	_____	66 _____	_____	_____	_____	66 _____	1467
P 3 _____	_____	69 _____	_____	_____	_____	69 _____	1468
P 4 _____	_____	72 _____	_____	_____	_____	72 _____	1468
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 _____	_____