



Home Office: Wichita, Kansas 67201
 P. O. Box 1599 (316) 838-0601

Company Sun Range Resources Lease & Well No. G. Spicer #1

Elevation 1533 Kelly Bush. Formation Hertha Effective Pay - Ft. Ticket No. 23124

Date 9-14-77 Sec. 20 Twp. 33S Range 10W County Barber State Kansas

Test Approved by Doug McGinness Western Representative Joe N. Lusk

Formation Test No. 1 O.K. Misrun Interval Tested From 4339' to 4412' Total Depth 4412'

Size Main Hole 7 7/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No

Top Packer Depth 4334 Ft. Size 6 3/4 Bottom Packer Depth 4339 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 73 Ft. Size 32' 6 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4345 Ft. Clock No. 5665 Depth 4348 Ft. Clock No. 6894

Top Make Kuster Cap. 4150 No. 969 ~~Inside~~ Outside Bottom Make Kuster Cap. 4400 No. 2603 ~~Inside~~ Outside

Below Straddle: Depth Rec. No. Clock No. ~~Inside~~ Outside Depth Ft. Rec. No. Clock No. ~~Inside~~ Outside

Time Set Packer 2:18A M

Tool Open I.F.P. From 2:20A M. to 2:50A M. - Hr. 30 Min. From (B) 62 P.S.I. To (C) 206 P.S.I.

Tool Closed I.C.I.P. From 2:50AM. to 3:20A M. - Hr. 30 Min (D) 492 P.S.I.

Tool Open F.F.P. From 3:20A M. to 4:20A M. - Hr. 60 Min. From (E) 53 P.S.I. To (F) 57 P.S.I.

Tool Closed F.C.I.P. From 4:20AM. to 5:20A M. - Hr. 60 Min. (G) 270 P.S.I.

Initial Hydrostatic Pressure (A) 2217 P.S.I. Final Hydrostatic Pressure (H) 2207 P.S.I. Maximum Temp. 128

INFORMATION

BLOW Very weak blow increasing to fair blow on initial flow period. Fair blow increasing to good blow on final flow period.

Did Well Flow Yes No Recovery Total Ft. 60' mud.

Reversed Out Yes No Mud Type Starch Premix Viscosity 42 Weight 9.2 Water Loss 12.8 cc. Chlorides 16,000 p.p.m.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Jars: Size In. Make Ser. No.

Dual Packer Yes Did Packers Hold? Yes No Where?

DRILLING CONTRACTOR Sweetman Drlg. Length Drill Pipe? 4036 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.

Length Weight Pipe Ft. I.D. Weight Pipe In. Tool Joint Size In. Length Drill Collars 282 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 XH In. Length D.S.T. Tool 94 Ft.

Remarks: Opened tool and slid in approximately 3'.

WESTERN TESTING CO., INC.

Pressure Data

Date 9-14-77 Test Ticket No. 23124
 Recorder No. 969 Capacity 4150 Location 4345 Ft.
 Clock No. 5665 Elevation 1533 Kelly Bushing Well Temperature 128 °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2217</u> P.S.I.		<u>2:18A</u>	<u>M</u>
B First Initial Flow Pressure	<u>62</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>206</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>24</u> Mins.
D Initial Closed-in Pressure	<u>492</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>53</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>63</u> Mins.
F Second Final Flow Pressure	<u>57</u> P.S.I.			
G Final Closed-in Pressure	<u>270</u> P.S.I.			
H Final Hydrostatic Mud	<u>2207</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: 8 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 12 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

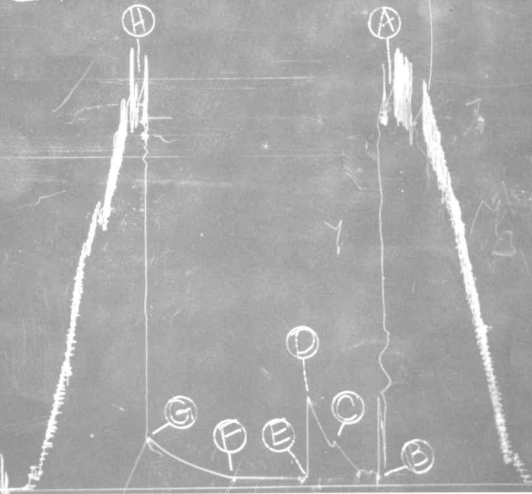
Final Shut-In
 Breakdown: 21 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point	Mins.	Press.	Point	Minutes	Press.	Point	Minutes	Press.	Point	Minutes	Press.
P 1	<u>0</u>	<u>62</u>		<u>0</u>	<u>206</u>		<u>0</u>	<u>53</u>		<u>0</u>	<u>57</u>
P 2	<u>5</u>	<u>75</u>		<u>3</u>	<u>234</u>		<u>5</u>	<u>47</u>		<u>3</u>	<u>61</u>
P 3	<u>10</u>	<u>75</u>		<u>6</u>	<u>215</u>		<u>10</u>	<u>48</u>		<u>6</u>	<u>67</u>
P 4	<u>15</u>	<u>82</u>		<u>9</u>	<u>242</u>		<u>15</u>	<u>49</u>		<u>9</u>	<u>73</u>
P 5	<u>20</u>	<u>113</u>		<u>12</u>	<u>287</u>		<u>20</u>	<u>50</u>		<u>12</u>	<u>79</u>
P 6	<u>25</u>	<u>156</u>		<u>15</u>	<u>330</u>		<u>25</u>	<u>51</u>		<u>15</u>	<u>85</u>
P 7	<u>30</u>	<u>206</u>		<u>18</u>	<u>379</u>		<u>30</u>	<u>53</u>		<u>18</u>	<u>92</u>
P 8				<u>21</u>	<u>430</u>		<u>35</u>	<u>54</u>		<u>21</u>	<u>98</u>
P 9				<u>24</u>	<u>492</u>		<u>40</u>	<u>55</u>		<u>24</u>	<u>106</u>
P10							<u>45</u>	<u>56</u>		<u>27</u>	<u>114</u>
P11							<u>50</u>	<u>56</u>		<u>30</u>	<u>123</u>
P12							<u>55</u>	<u>57</u>		<u>33</u>	<u>131</u>
P13							<u>60</u>	<u>57</u>		<u>36</u>	<u>140</u>
P14										<u>39</u>	<u>149</u>
P15										<u>42</u>	<u>160</u>
P16										<u>45</u>	<u>172</u>
P17										<u>48</u>	<u>183</u>
P18										<u>51</u>	<u>198</u>
P19										<u>54</u>	<u>214</u>
P20										<u>57</u>	<u>230</u>
										<u>60</u>	<u>250</u>
										<u>63</u>	<u>270</u>

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Company Sun Range Resources Lease & Well No. G. Spicer #1
 Elevation 1533 Kelly Bush. Formation Mississippi Effective Pay - Ft. Ticker No. 23125
 Date 9-15-77 Sec. 20 Twp. 33S Range 10W County Barber State Kansas
 Test Approved by Doug McGinness Western Representative Joe N. Lusk

Formation Test No. 2 O.K. Misrun Interval Tested From 4588' to 4612' Total Depth 4612'
 Size Main Hole 7 7/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Top Packer Depth 4583 Ft. Size 6 3/4 Bottom Packer Depth 4588 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 24 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4594 Ft. Clock No. 5665 Depth 4597 Ft. Clock No. 6894
 Top Make Kuster Cap. 4150 No. 969 Inside Outside Bottom Make Kuster Cap. 4400 No. 2603 Inside Outside
 Below Straddle: Depth Rec. No. Clock No. Inside Outside Depth Ft. Rec. No. Clock No. Inside Outside

Time Set Packer 2:40A M
 Tool Open I.F.P. From 2:43A M. to 3:13A M. - Hr. 30 Min. From (B) 104 P.S.I. To (C) 63 P.S.I.
 Tool Closed I.C.I.P. From 3:13A M. to 3:43A M. - Hr. 30 Min (D) 1600 P.S.I.
 Tool Open F.F.P. From 3:43A M. to 4:43A M. - Hr. 60 Min. From (E) 80 P.S.I. To (F) 38 P.S.I.
 Tool Closed F.C.I.P. From 4:43A M. to 5:43A M. - Hr. 60 Min. (G) 1645 P.S.I.
 Initial Hydrostatic Pressure (A) 2359 P.S.I. Final Hydrostatic Pressure (H) 2338 P.S.I. Maximum Temp. 126

INFORMATION

BLOW Strong blow on initial flow period. Gas to surface in 3 minutes. See Attached sheet for gas measurements.

Did Well Flow Yes No Recovery Total Ft. 10' gas cut mud.

Reversed Out Yes No Mud Type Premix Viscosity 57 Weight 9.3 Water Loss 12.4 cc. Chlorides 25,000 p.p.m.

EXTRA EQUIPMENT: Type Pin Safety Joint Jars: Size In. Make Ser. No.

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

DRILLING CONTRACTOR Sweetman Drlg. Length Drill Pipe? 4275 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.

Length Weight Pipe Ft. I.D. Weight Pipe In. Tool Joint Size In. Length Drill Collars 282 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 XH In. Length D.S.T. Tool 55 Ft.

Remarks: Opened tool and slid to bottom approximately 5'.



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GAS FLOW REPORT

Date 9-15-77 Ticket 23125 Company Sun Range Resources
 Well Name and No. G. Spicer #1 Dst No. 2 Interval Tested 4588' - 4612'
 County Barber State Kansas Sec. 20 Twp. 33S Rg. 10W

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
PRE FLOW						
2:56AM	13 min	34" of water		1" orifice		151,000 C.F.P.D.
3:06AM	23 min	26" of water		1" orifice		132,000 C.F.P.D.
3:13AM	30 min	24" of water		1" orifice		126,000 C.F.P.D.
Gas To surface in 3 minutes.						

SECOND FLOW						
3:53AM	10 min	36" of water		1" orifice		155,000 C.F.P.D.
4:03AM	20 min	24" of water		1" orifice		126,000 C.F.P.D.
4:13AM	30 min	20" of water		1" orifice		115,000 C.F.P.D.
4:23AM	40 min	18" of water		1" orifice		110,000 C.F.P.D.
4:33AM	50 min	17" of water		1" orifice		106,000 C.F.P.D.
4:43AM	60 min	16" of water		1" orifice		103,000 C.F.P.D.

GAS BOTTLE

Serial No. 602 Date Bottle Filled 9-15-77 Date to be Invoiced 9-15-77

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 Sun Range Resources
 Authorized by Doug McGinness

WESTERN TESTING CO., INC.
Pressure Data

Date 9-15-77 Test Ticket No. 23125
 Recorder No. 969 Capacity 4150 Location 4594 Ft.
 Clock No. 5665 Elevation 1533 Kelly Bushing Well Temperature 126 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2359</u> P.S.I.	Open Tool	<u>2:40A</u> M	
B First Initial Flow Pressure	<u>104</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>63</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1600</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>80</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>69</u> Mins.
F Second Final Flow Pressure	<u>38</u> P.S.I.			
G Final Closed-in Pressure	<u>1645</u> P.S.I.			
H Final Hydrostatic Mud	<u>2338</u> P.S.I.			

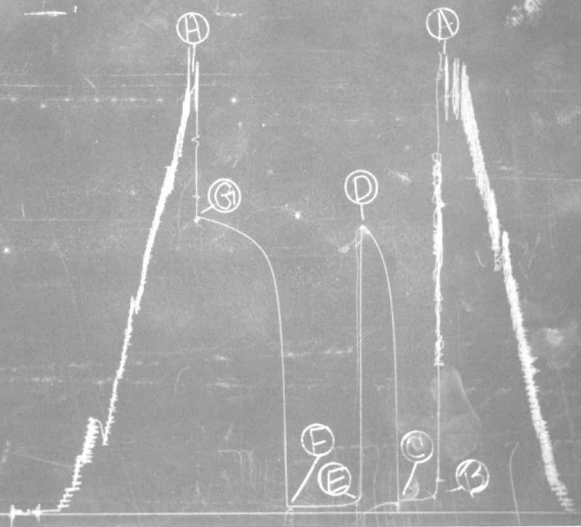
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Breakdown: <u>23</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> 104	<u>0</u> 63	<u>0</u> 80	<u>0</u> 38			
P 2	<u>5</u> 78	<u>3</u> 637	<u>5</u> 51	<u>3</u> 549			
P 3	<u>10</u> 68	<u>6</u> 1031	<u>10</u> 44	<u>6</u> 908			
P 4	<u>15</u> 70	<u>9</u> 1231	<u>15</u> 39	<u>9</u> 1154			
P 5	<u>20</u> 65	<u>12</u> 1348	<u>20</u> 38	<u>12</u> 1283			
P 6	<u>25</u> 63	<u>15</u> 1422	<u>25</u> 38	<u>15</u> 1364			
P 7	<u>30</u> 63	<u>18</u> 1478	<u>30</u> 38	<u>18</u> 1413			
P 8		<u>21</u> 1521	<u>35</u> 38	<u>21</u> 1452			
P 9		<u>24</u> 1553	<u>40</u> 38	<u>24</u> 1447			
P10		<u>27</u> 1580	<u>45</u> 38	<u>27</u> 1500			
P11		<u>30</u> 1600	<u>50</u> 38	<u>30</u> 1519			
P12			<u>55</u> 38	<u>33</u> 1536			
P13			<u>60</u> 38	<u>36</u> 1560			
P14				<u>39</u> 1562			
P15				<u>42</u> 1574			
P16				<u>45</u> 1585			
P17				<u>48</u> 1594			
P18				<u>51</u> 1603			
P19				<u>54</u> 1612			
P20				<u>57</u> 1620			
				<u>60</u> 1627			
				<u>63</u> 1634			
				<u>66</u> 1641			
				<u>69</u> 1648			

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T.K.F # 23125

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Company Sun Range Resources Lease & Well No. G. Spicer #1

Elevation 1533 Kelly Bush. Formation Mississippi Effective Pay - Ft. Ticket No. 22726

Date 9-15-77 Sec. 20 Twp. 33S Range 10W County Barber State Kansas

Test Approved by Doug McGinness Western Representative Joe N. Lusk

Formation Test No. 3 O.K. Misrun Interval Tested From 4615' to 4635' Total Depth 4635'

Size Main Hole 7 7/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No

Top Packer Depth 4610 Ft. Size 6 3/4 Bottom Packer Depth 4615 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 20 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4641 Ft. Clock No. 5665 Depth 4644 Ft. Clock No. 6894

Top Make Kuster Cap. 4150 No. 969 ~~Inside~~ Outside Bottom Make Kuster Cap. 4400 No. 2603 ~~Inside~~ Outside

Below Straddle: Depth Rec. No. Clock No. ~~Inside~~ Outside Depth Ft. Rec. No. Clock No. ~~Inside~~ Outside

Time Set Packer 7:38P M

Tool Open I.F.P. From 7:40P M. to 8:10P M. - Hr. 30 Min. From (B) 54 P.S.I. To (C) 87 P.S.I.

Tool Closed I.C.I.P. From 8:10P M. to 8:40P M. - Hr. 30 Min (D) 711 P.S.I.

Tool Open F.F.P. From 8:40P M. to 9:10P M. - Hr. 30 Min. From (E) 97 P.S.I. To (F) 105 P.S.I.

Tool Closed F.C.I.P. From 9:10P M. to 9:55P M. - Hr. 45 Min. (G) 1067 P.S.I.

Initial Hydrostatic Pressure (A) 2304 P.S.I. Final Hydrostatic Pressure (H) 2264 P.S.I. Maximum Temp. 123

INFORMATION

BLOW Strong blow throughout test.

Did Well Flow Yes No Recovery Total Ft. 279' total recovery, 30' slightly oil and gas cut mud, 186' moderate oil and gas cut mud, 62' heavy oil and gas cut mud. No percentages.

Reversed Out Yes No Mud Type Premix Viscosity 50 Weight 9.3 Water Loss 15.8 cc. Chlorides 41,000 p.p.m.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Jars: Size In. Make Ser. No.

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

DRILLING CONTRACTOR Sweetman Drlg. Length Drill Pipe? 4311 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.

Length Weight Pipe Ft. I.D. Weight Pipe In. Tool Joint Size In. Length Drill Collars 282 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 XH In. Length D.S.T. Tool 42 Ft.

Remarks:

WESTERN TESTING CO., INC.
Pressure Data

Date 9-15-77

Test Ticket No. 22726

Recorder No. 969

Capacity 4150

Location 4641 Ft.

Clock No. 5665

Elevation 1533 Kelly Bushing

Well Temperature 123 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2304</u> P.S.I.	Open Tool	<u>7:38P</u>	<u>M</u>
B First Initial Flow Pressure	<u>54</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>87</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>711</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>97</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>54</u> Mins.
F Second Final Flow Pressure	<u>105</u> P.S.I.			
G Final Closed-in Pressure	<u>1067</u> P.S.I.			
H Final Hydrostatic Mud	<u>2264</u> P.S.I.			

PRESSURE BREAKDOWN

Point Mins.	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 <u>0</u>	<u>54</u>	<u>0</u>	<u>87</u>	<u>0</u>	<u>97</u>	<u>0</u>	<u>105</u>	
P 2 <u>5</u>	<u>56</u>	<u>3</u>	<u>117</u>	<u>5</u>	<u>92</u>	<u>3</u>	<u>123</u>	
P 3 <u>10</u>	<u>63</u>	<u>6</u>	<u>156</u>	<u>10</u>	<u>88</u>	<u>6</u>	<u>158</u>	
P 4 <u>15</u>	<u>71</u>	<u>9</u>	<u>200</u>	<u>15</u>	<u>95</u>	<u>9</u>	<u>191</u>	
P 5 <u>20</u>	<u>77</u>	<u>12</u>	<u>242</u>	<u>20</u>	<u>100</u>	<u>12</u>	<u>228</u>	
P 6 <u>25</u>	<u>82</u>	<u>15</u>	<u>296</u>	<u>25</u>	<u>103</u>	<u>15</u>	<u>265</u>	
P 7 <u>30</u>	<u>87</u>	<u>18</u>	<u>354</u>	<u>30</u>	<u>105</u>	<u>18</u>	<u>303</u>	
P 8		<u>21</u>	<u>424</u>			<u>21</u>	<u>348</u>	
P 9		<u>24</u>	<u>500</u>			<u>24</u>	<u>393</u>	
P10		<u>27</u>	<u>597</u>			<u>27</u>	<u>445</u>	
P11		<u>30</u>	<u>711</u>			<u>30</u>	<u>500</u>	
P12						<u>33</u>	<u>554</u>	
P13						<u>36</u>	<u>615</u>	
P14						<u>39</u>	<u>680</u>	
P15						<u>42</u>	<u>758</u>	
P16						<u>45</u>	<u>836</u>	
P17						<u>48</u>	<u>920</u>	
P18						<u>51</u>	<u>996</u>	
P19						<u>54</u>	<u>1067</u>	
P20								

967

TK+ # 22.726

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