

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

Company Range Oil Company Inc. Lease & Well No. Metzinger #1
Elevation 1140 Kelly Bushing Formation - Effective Pay - Ft. Ticker No. 21263
Date 10-28-75 Sec. 28 Twp. 34S Range 3E County Cowley State Kansas
Test Approved by Gerald D. Honas Western Representative Norman Allen
Formation Test No. 1 O.K. X Misrun - Interval Tested From 564' to 655' Total Depth 655'
Size Main Hole 77/8 Rat Hole - Conv. - B.T. X Damaged - Yes X No Conv. - B.T. X Damaged - Yes X No
Top Packer Depth 559 Ft. Size 63/4 Bottom Packer Depth 564 Ft. Size 63/4
Straddle - Conv. - B.T. - Damaged - Yes No Packer Depth - Ft. Size -
Tool Size 4 1/2 D Tool Joint Size 3 1/2 IF Anchor Length 91 Ft. Size 4 1/2 OD Surface Choke Size 1 1/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 587 Ft. Clock No. 6861 Depth 590 Ft. Clock No. 10167
Top Make Kuster Cap. 4250 No. 1051 Inside Outside Bottom Make Kuster Cap. 4200 No. 3354 Inside Outside
Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside
Time Set Packer 10:55P M
Tool Open I.F.P. From 11:00P M. to 11:30P M. - Hr. 30 Min. From (B) 56 P.S.I. To (C) 54 P.S.I.
Tool Closed I.C.I.P. From 11:30P M. to 12:00A M. - Hr. 30 Min (D) 228 P.S.I.
Tool Open F.F.P. From 12:00A M. to 1:00A M. - Hr. 60 Min. From (E) 62 P.S.I. To (F) 62 P.S.I.
Tool Closed F.C.I.P. From 1:00A M. to 2:00A M. - Hr. 60 Min. (G) 236 P.S.I.
Initial Hydrostatic Pressure (A) 383 P.S.I. Final Hydrostatic Pressure (H) 377 P.S.I. Maximum Temp. 79

INFORMATION

BLOW Strong throughout test gas to surface in 30 minutes. See attached sheet.

Did Well Flow gas Yes - No Recovery Total Ft. Fluid recovery: 70 gas out mud.

Reversed Out - Yes X No Mud Type gel Viscosity 40 Weight 9.4 Water Loss - cc. Chlorides -

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 White & Elks Drilg. Inc. Length Drill Pipe? 344 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 200 Ft. I.D. Drill Collars 2 1/2 In.

Tool Joint Size 4H-90 In. Length D.S.T. Tool 111 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 10-28-75 Recorder No. 1051 Capacity 4250 Test Ticket No. 21263
 Clock No. 6861 Elevation 1140 Kelly Bushing Location 587 Ft. Well Temperature 73 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>383</u> P.S.I.	Open Tool	<u>10:55 P</u> M	
B First Initial Flow Pressure	<u>56</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>54</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>228</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>62</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>62</u> P.S.I.			
G Final Closed-in Pressure	<u>236</u> P.S.I.			
H Final Hydrostatic Mud	<u>377</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>10</u> Inc.		Breakdown: <u>12</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>56</u>	<u>0</u>	<u>54</u>	<u>0</u>	<u>62</u>	<u>0</u>	<u>62</u>
P 2 <u>5</u>	<u>52</u>	<u>3</u>	<u>118</u>	<u>5</u>	<u>62</u>	<u>3</u>	<u>135</u>
P 3 <u>10</u>	<u>52</u>	<u>6</u>	<u>174</u>	<u>10</u>	<u>62</u>	<u>6</u>	<u>181</u>
P 4 <u>15</u>	<u>52</u>	<u>9</u>	<u>202</u>	<u>15</u>	<u>62</u>	<u>9</u>	<u>204</u>
P 5 <u>20</u>	<u>52</u>	<u>12</u>	<u>215</u>	<u>20</u>	<u>62</u>	<u>12</u>	<u>215</u>
P 6 <u>25</u>	<u>53</u>	<u>15</u>	<u>220</u>	<u>25</u>	<u>62</u>	<u>15</u>	<u>220</u>
P 7 <u>30</u>	<u>54</u>	<u>18</u>	<u>224</u>	<u>30</u>	<u>62</u>	<u>18</u>	<u>221</u>
P 8		<u>21</u>	<u>225</u>	<u>35</u>	<u>62</u>	<u>21</u>	<u>224</u>
P 9		<u>24</u>	<u>226</u>	<u>40</u>	<u>62</u>	<u>24</u>	<u>226</u>
P10		<u>27</u>	<u>227</u>	<u>45</u>	<u>62</u>	<u>27</u>	<u>228</u>
P11		<u>30</u>	<u>228</u>	<u>50</u>	<u>62</u>	<u>30</u>	<u>229</u>
P12				<u>55</u>	<u>62</u>	<u>33</u>	<u>230</u>
P13				<u>60</u>	<u>62</u>	<u>36</u>	<u>231</u>
P14						<u>39</u>	<u>232</u>
P15						<u>42</u>	<u>232</u>
P16						<u>45</u>	<u>233</u>
P17						<u>48</u>	<u>234</u>
P18						<u>51</u>	<u>234</u>
P19						<u>54</u>	<u>235</u>
P20						<u>57</u>	<u>236</u>
						<u>60</u>	<u>236</u>

Phone 316 262-5861
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P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

Date **10-28-75** Ticket **21263** Company **Range Oil Company, Inc.**
Well Name and No. **Matzinger #1** Dst No. **1** Interval Tested **564'-655'**
County **Cowley** State **KS** Sec. **28** Twp. **34S** Rg. **3E**

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						

SECOND FLOW

12:10AM	10 min.	10" of water $\frac{1}{4}$ " Choke		5,320 C.F.P.D.
12:20AM	10 min.	15" of water $\frac{1}{4}$ " Choke		6,550 C.F.P.D.
12:30AM	10 min.	20" of water $\frac{1}{4}$ " Choke		6,550 C.F.P.D.
12:40AM	10 min.	22" of water $\frac{1}{4}$ " Choke		7,880 C.F.P.D.
12:50AM	10 min.	24" of water $\frac{1}{4}$ " Choke		8,220 C.F.P.D.
1:00 AM	10 min.	24" of water $\frac{1}{4}$ " Choke		8,220 C.F.P.D.
Tool opened at 12:00 AM in second flow period. Gas to surface at 12:00 AM. All measurements were taken through a 2" merla orifice well tester with a $\frac{1}{4}$ " choke.				

GAS BOTTLE

Serial No. **637** Date Bottle Filled **10-28-75** Date to be Invoiced **10-28-75**

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.

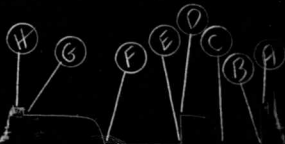
All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME **Range Oil Company, Inc.**

Authorized by **Gerald D. Monas**

TAT # 21263

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P. O. Box 1599 (316) 838-0601

Company **Range Oil Company, Inc.** Lease & Well No. **Metzinger #1**
Elevation **1140 Kelly Bushing** Formation **-** Effective Pay **-** Ft. Ticket No. **21264**
Date **10-29-75** Sec. **28** Twp. **34S** Range **3E** County **Cowley** State **KS**
Test Approved by **Gerald D. Honas** Western Representative **Norman Allen**
Formation Test No. **#2** O.K. ☒ Misrun ☐ Interval Tested From **728'** to **759'** Total Depth **759'**
Size Main Hole **7 7/8** Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No
Top Packer Depth **723** Ft. Size **6/34** Bottom Packer Depth **728** Ft. Size **6 3/4**
Straddle ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No Packer Depth ☐ Ft. Size ☐
Tool Size **4 1/2 OD** Tool Joint Size **3 1/2 IF** Anchor Length **31** Ft. Size ☐ Surface Choke Size **3/4** In. Bottom Choke Size **3/4** In.
RECORDERS Depth **751** Ft. Clock No. **6861** Depth **754** Ft. Clock No. **10167**
Top Make **Kuster** Cap. **4250** No. **1051** Inside ☒ Outside ☐ Bottom Make **Kuster** Cap. **4200** No. **3354** Inside ☒ Outside ☐
Below Straddle: Depth ☐ Rec. No. ☐ Clock No. ☐ Inside ☐ Outside ☐ Depth ☐ Ft. Rec. No. ☐ Clock No. ☐ Inside ☐ Outside ☐
Time Set Packer **11:11 A.** M
Tool Open I.F.P. From **11:15A** M. to **11:45A** M. - Hr. **30** Min. From (B) **53** P.S.I. To (C) **49** P.S.I.
Tool Closed I.C.I.P. From **11:45A** M. to **12:15P** M. - Hr. **30** Min (D) **310** P.S.I.
Tool Open F.F.P. From **12:15P** M. to **12:45P** M. - Hr. **30** Min. From (E) **71** P.S.I. To (F) **65** P.S.I.
Tool Closed F.C.I.P. From **12:45P** M. to **1:15P** M. - Hr. **30** Min. (G) **306** P.S.I.
Initial Hydrostatic Pressure (A) **362** P.S.I. Final Hydrostatic Pressure (H) **355** P.S.I. Maximum Temp. **75**

INFORMATION

BLOW **Weak throughout test**
Did Well Flow ☐ Yes ☒ No Recovery Total Ft. **75' thin drilling mud**
Reversed Out ☐ Yes ☒ No Mud Type **Chemical** Viscosity **40** Weight **9.4** Water Loss ☐ cc. Chlorides ☐
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 **White & Ellis Drilling Co.** Length Drill Pipe? **508** Ft. I.D. Drill Pipe **3.8** In. Tool Joint Size **4 1/2 FH** In.
Length Weight Pipe ☐ Ft. I.D. Weight Pipe ☐ In. Tool Joint Size ☐ In. Length Drill Collars **200** Ft. I.D. Drill Collars **2 1/2** In.
Tool Joint Size **4H90** In. Length D.S.T. Tool **51** Ft.
Remarks:

WESTERN TESTING CO., INC.

Pressure Data

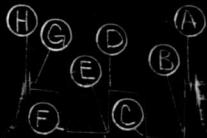
Date 10-29-75 Recorder No. 1051 Capacity 4250 Location 751 Ft.
 Clock No. 6861 Elevation 1140 Kelly Bushing Well Temperature 75 °F
 Test Ticket No. 21264

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>362</u>	P.S.I.	<u>11:11A</u>	M
B First Initial Flow Pressure	<u>53</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
C First Final Flow Pressure	<u>49</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
D Initial Closed-in Pressure	<u>310</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
E Second Initial Flow Pressure	<u>71</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
F Second Final Flow Pressure	<u>65</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
G Final Closed-in Pressure	<u>306</u>	P.S.I.		
H Final Hydrostatic Mud	<u>355</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>10</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>10</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>53</u>	<u>0</u>	<u>49</u>	<u>0</u>	<u>71</u>	<u>0</u>	<u>65</u>
P 2 <u>5</u>	<u>49</u>	<u>3</u>	<u>269</u>	<u>5</u>	<u>65</u>	<u>3</u>	<u>262</u>
P 3 <u>10</u>	<u>49</u>	<u>6</u>	<u>290</u>	<u>10</u>	<u>65</u>	<u>6</u>	<u>284</u>
P 4 <u>15</u>	<u>49</u>	<u>9</u>	<u>267</u>	<u>15</u>	<u>65</u>	<u>9</u>	<u>292</u>
P 5 <u>20</u>	<u>49</u>	<u>12</u>	<u>301</u>	<u>20</u>	<u>65</u>	<u>12</u>	<u>297</u>
P 6 <u>25</u>	<u>49</u>	<u>15</u>	<u>303</u>	<u>25</u>	<u>65</u>	<u>15</u>	<u>299</u>
P 7 <u>30</u>	<u>49</u>	<u>18</u>	<u>307</u>	<u>30</u>	<u>65</u>	<u>18</u>	<u>301</u>
P 8		<u>21</u>	<u>308</u>			<u>21</u>	<u>303</u>
P 9		<u>24</u>	<u>309</u>			<u>24</u>	<u>304</u>
P10		<u>27</u>	<u>310</u>			<u>27</u>	<u>305</u>
P11		<u>30</u>				<u>30</u>	<u>306</u>
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

tkl#21264
I.





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

Company Range Oil Company, Inc. Lease & Well No. Matzinger #1
Elevation 1140 Kelly Bush. Formation Savery Effective Pay - Ft. Ticket No. 21265
Date 10-30-75 Sec. 28 Twp. 34S Range 3E County Cowley State Kansas
Test Approved by Gerald D. Monas Western Representative Forrest Purnell
Formation Test No. 3 O.K. ☒ Misrun ☐ Interval Tested From 1389' to 1434' Total Depth 1434'
Size Main Hole 7 7/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No
Top Packer Depth 1384 Ft. Size 6 3/4 Bottom Packer Depth 1389 Ft. Size 6 3/4
Straddle ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No Packer Depth ☐ Ft. Size ☐
Tool Size 4 1/2 OD Tool Joint Size 3 1/2 IF Anchor Length 45 Ft. Size 4 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 1420 Ft. Clock No. 6861 Depth 1431 Ft. Clock No. 10167
Top Make Kuster Cap. 4250 No. 1051 Inside Outside Bottom Make Kuster Cap. 4200 No. 3354 Inside Outside
Below Straddle: Depth ☐ Rec. No. ☐ Clock No. ☐ Inside Outside Depth ☐ Ft. Rec. No. ☐ Clock No. ☐ Inside Outside
Time Set Packer 5:55 P. M.
Tool Open I.F.P. From 6:00P. M. to 6:30P. M. ☐ Hr. 30 Min. From (B) 54 P.S.I. To (C) 77 P.S.I.
Tool Closed I.C.I.P. From 6:30P. M. to 7:00P. M. ☐ Hr. 30 Min (D) 562 P.S.I.
Tool Open F.F.P. From 7:00P. M. to 8:00P. M. ☐ Hr. 60 Min. From (E) 127 P.S.I. To (F) 108 P.S.I.
Tool Closed F.C.I.P. From 8:00P. M. to 9:00P. M. ☐ Hr. 60 Min. (G) 562 P.S.I.
Initial Hydrostatic Pressure (A) 763 P.S.I. Final Hydrostatic Pressure (H) 710 P.S.I. Maximum Temp. -

INFORMATION

BLOW Strong blow throughout test. Gas to surface in 4 minutes.

Did Well Flow Gas Yes ☐ No ☐ Recovery Total Ft. 150' of gas cut drilling mud.

Reversed Out ☐ Yes ☒ No ☐ Mud Type Chem Viscosity 48 Weight 10.0 Water Loss 21.4 cc. Chlorides 2800 PPM

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 White & Ellis Drilg Inc. Length Drill Pipe? 1166 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 ☐ In. Length Drill Collars 200 Ft. I.D. Drill Collars 2 1/2 In.

Tool Joint Size 4 1/2 In. Length D.S.T. Tool 68 Ft.

Remarks: See attached sheet for gas measurements.

WESTERN TESTING CO., INC.

Pressure Data

Date 10-30-75 Test Ticket No. 21265
 Recorder No. 1051 Capacity 4250 Location 1420 Ft.
 Clock No. 6861 Elevation 1140 Kelly Bushing Well Temperature - °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>763</u> P.S.I.		<u>5:55 P.</u> M	
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>77</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>562</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>127</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>108</u> P.S.I.			
G Final Closed-in Pressure	<u>562</u> P.S.I.			
H Final Hydrostatic Mud	<u>710</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>10</u> Inc.		Breakdown: <u>12</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>54</u>	<u>0</u>	<u>77</u>	<u>0</u>	<u>127</u>	<u>0</u>	<u>108</u>
P 2 <u>5</u>	<u>55</u>	<u>3</u>	<u>513</u>	<u>5</u>	<u>116</u>	<u>3</u>	<u>513</u>
P 3 <u>10</u>	<u>59</u>	<u>6</u>	<u>548</u>	<u>10</u>	<u>103</u>	<u>6</u>	<u>535</u>
P 4 <u>15</u>	<u>66</u>	<u>9</u>	<u>555</u>	<u>15</u>	<u>101</u>	<u>9</u>	<u>545</u>
P 5 <u>20</u>	<u>71</u>	<u>12</u>	<u>557</u>	<u>20</u>	<u>101</u>	<u>12</u>	<u>549</u>
P 6 <u>25</u>	<u>74</u>	<u>15</u>	<u>559</u>	<u>25</u>	<u>102</u>	<u>15</u>	<u>552</u>
P 7 <u>30</u>	<u>77</u>	<u>18</u>	<u>560</u>	<u>30</u>	<u>102</u>	<u>18</u>	<u>554</u>
P 8		<u>21</u>	<u>561</u>	<u>35</u>	<u>104</u>	<u>21</u>	<u>556</u>
P 9		<u>24</u>	<u>561</u>	<u>40</u>	<u>108</u>	<u>24</u>	<u>557</u>
P10		<u>27</u>	<u>562</u>	<u>45</u>	<u>105</u>	<u>27</u>	<u>558</u>
P11		<u>30</u>	<u>562</u>	<u>50</u>	<u>106</u>	<u>30</u>	<u>559</u>
P12				<u>55</u>	<u>108</u>	<u>33</u>	<u>559</u>
P13				<u>60</u>	<u>108</u>	<u>36</u>	<u>560</u>
P14						<u>39</u>	<u>560</u>
P15						<u>42</u>	<u>561</u>
P16						<u>45</u>	<u>561</u>
P17						<u>48</u>	<u>561</u>
P18						<u>51</u>	<u>561</u>
P19						<u>54</u>	<u>562</u>
P20						<u>57</u>	<u>562</u>
						<u>60</u>	<u>562</u>

Phone 316 262-5861
316 838-0601



P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

Date **10-30-75** Ticket **21265** Company **Range Oil Company, Inc.**
Well Name and No. **Matzinger #1** Dst No. **3** Interval Tested **1389' - 1434'**
County **Cowley** State **Kansas** Sec. **28** Twp. **34S** Rg. **3E**

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						
6:10PM	10 min.	3 PSIG	3/4" Choke			133,000 C.F.P.D.
6:20PM	20 min.	5.5 PSIG	3/4" Choke			185,000 C.F.P.D.
6:30PM	30 min.	7.0 PSIG	3/4" Choke			211,000 C.F.P.D.
Tool opened at 6:00PM on pre-flow period.						

SECOND FLOW						
7:10PM	40 min.	13 PSIG	3/4" Choke			303,000 C.F.P.D.
7:20PM	50 min.	14 PSIG	3/4" Choke			317,000 C.F.P.D.
7:30 PM	60 min.	14 PSIG	3/4" Choke			317,000 C.F.P.D.
7:40 PM	70 min.	15 PSIG	3/4" Choke			331,000 C.F.P.D.
7:50 PM	80 min.	15 PSIG	3/4" Choke			331,000 C.F.P.D.
8:00 PM	90 min.	15 PSIG	3/4" Choke			331,000 C.F.P.D.
Tool opened at 7:00PM on second flow period. All measurements were taken through a 2" merla orifice well tester with a 3/4" choke.						

GAS BOTTLE

Serial No. **624** Date Bottle Filled **10-30-75** Date to be Invoiced **10-30-75**

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 **Range Oil Company, Inc.**
Authorized by **Gerald D. Honas**

+K4 21265

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(H)

(G)

(D)

(A)

(F)

(E)

(C)

(B)



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

Company Range Oil Company Inc. Lease & Well No. Metzinger #1
Elevation 1140 Kelly Bushing Formation Kansas City Effective Pay - Ft. Ticket No. 23882
Date 11-3-75 Sec. 28 Twp. 34S Range 3E County Cowley State Kansas
Test Approved by Gerald D. Hanas Western Representative Forrest Purnell
Formation Test No. 4 O.K. X Misrun - Interval Tested From 2849' to 2883' Total Depth 2883'
Size Main Hole 77/8 Rat Hole - Conv. - B.T. X Damaged - Yes X No Conv. X B.T. - Damaged - Yes X No
Top Packer Depth 2844 Ft. Size 63/4 Bottom Packer Depth 2849 Ft. Size 63/4
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 34 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 2854 Ft. Clock No. 6900 Depth 2857 Ft. Clock No. 9102
Top Make Kuster Cap. 4200 No. 1557 Inside Outside Bottom Make Kuster Cap. 3150 No. 1565 Inside Outside
Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside
Time Set Packer 12:13 A M
Tool Open I.F.P. From 12:15A M. to 12:45A M. - Hr. 30 Min. From (B) 10 P.S.I. To (C) 10 P.S.I.
Tool Closed I.C.I.P. From 12:45A M. to 1:15A M. - Hr. 30 Min (D) 33 P.S.I.
Tool Open F.F.P. From 1:15 A M. to 2:15 A M. - Hr. 60 Min. From (E) 21 P.S.I. To (F) 18 P.S.I.
Tool Closed F.C.I.P. From 2:15A M. to 3:15A M. - Hr. 60 Min. (G) 46 P.S.I.
Initial Hydrostatic Pressure (A) 1460 P.S.I. Final Hydrostatic Pressure (H) 1443 P.S.I. Maximum Temp. 102

INFORMATION

BLOW Very weak blow increasing to a 2" weak blow throughout initial flow period. Weak 1" blow through final flow period.

Did Well Flow - Yes X No Recovery Total Fr. 30' very slightly gas cut drilling mud with a few specks of oil.

Reversed Out - Yes X No Mud Type chem Viscosity 44 Weight 9.8 Water Loss 12.0 cc. Chlorides 2600 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 White & Ellis Drlg. Co. Length Drill Pipe? 2648 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 180 Ft. I.D. Drill Collars 2 1/2 In.

Tool Joint Size 4"H-90 In. Length D.S.T. Tool 55 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 11-3-75 Test Ticket No. 23882
 Recorder No. 1559 Capacity 4200 Location 2254 Ft.
 Clock No. 6800 Elevation 1140 Kelly Bushing Well Temperature 102 °F

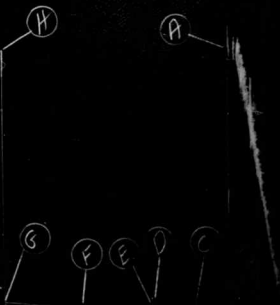
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1460</u> P.S.I.	Open Tool	<u>12:13A</u> M	
B First Initial Flow Pressure	<u>10</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>10</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>33</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>21</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>57</u> Mins.
F Second Final Flow Pressure	<u>18</u> P.S.I.			
G Final Closed-in Pressure	<u>46</u> P.S.I.			
H Final Hydrostatic Mud	<u>1443</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>10</u> Inc.		Breakdown: <u>12</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 <u>0</u>	<u>10</u>	<u>0</u>	<u>10</u>	<u>0</u>	<u>21</u>	<u>0</u>	<u>18</u>
P 2 <u>5</u>	<u>10</u>	<u>3</u>	<u>10</u>	<u>5</u>	<u>20</u>	<u>3</u>	<u>18</u>
P 3 <u>10</u>	<u>10</u>	<u>6</u>	<u>14</u>	<u>10</u>	<u>19</u>	<u>6</u>	<u>18</u>
P 4 <u>15</u>	<u>10</u>	<u>9</u>	<u>16</u>	<u>15</u>	<u>19</u>	<u>9</u>	<u>19</u>
P 5 <u>20</u>	<u>10</u>	<u>12</u>	<u>20</u>	<u>20</u>	<u>19</u>	<u>12</u>	<u>21</u>
P 6 <u>25</u>	<u>10</u>	<u>15</u>	<u>23</u>	<u>25</u>	<u>19</u>	<u>15</u>	<u>23</u>
P 7 <u>30</u>	<u>10</u>	<u>18</u>	<u>24</u>	<u>30</u>	<u>19</u>	<u>18</u>	<u>24</u>
P 8		<u>21</u>	<u>27</u>	<u>35</u>	<u>19</u>	<u>21</u>	<u>26</u>
P 9		<u>24</u>	<u>28</u>	<u>40</u>	<u>18</u>	<u>24</u>	<u>28</u>
P10		<u>27</u>	<u>31</u>	<u>45</u>	<u>18</u>	<u>27</u>	<u>29</u>
P11		<u>30</u>	<u>33</u>	<u>50</u>	<u>18</u>	<u>30</u>	<u>31</u>
P12				<u>55</u>	<u>18</u>	<u>33</u>	<u>33</u>
P13				<u>60</u>	<u>18</u>	<u>36</u>	<u>34</u>
P14						<u>39</u>	<u>37</u>
P15						<u>42</u>	<u>39</u>
P16						<u>45</u>	<u>41</u>
P17						<u>48</u>	<u>43</u>
P18						<u>51</u>	<u>44</u>
P19						<u>54</u>	<u>45</u>
P20						<u>57</u>	<u>46</u>

TAT² 23882

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

Range Oil Company Inc. Lease & Well No. Metzinger #1
Company 1140 Kelly Bushing Celevaland Effective Pay - Ft. Ticket No. 23883
Elevation 11-3-75 Formation 28 34S Range 3E County Cowley State Kansas
Date 28 Sec. 28 Twp. 34S Range 3E County Cowley State Kansas
Test Approved by Gerald D. Honas Western Representative Forrest Purnell
Formation Test No. 5 O.K. X Misrun - Interval Tested From 2953' to 3019' Total Depth 3019'
Size Main Hole 77/8 Rat Hole - Conv. - B.T. X Damaged - Yes X No Conv. X B.T. - Damaged - Yes X No -
Top Packer Depth 2948 Ft. Size 63/4 Bottom Packer Depth 2953 Ft. Size 63/4
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 66 Ft. Size 5 1/2 OD ADP Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 2960 Ft. Clock No. 6800 Depth 2963 Ft. Clock No. 9102 Inside - Outside -
Top Make Kuster Cap. 4200 No. 1559 Inside - Outside - Bottom Make Kuster Cap. 3150 No. 1565 Inside - Outside -
Below Straddle: Depth - Rec. No. - Clock No. - Inside - Outside - Depth - Ft. Rec. No. - Clock No. - Inside - Outside -
Time Set Packer 6:57 P M
Tool Open I.F.P. From 7:00P M. to 7:30 P M. - Hr. 30 Min. From (B) 19 P.S.I. To (C) 56 P.S.I.
Tool Closed I.C.I.P. From 7:30P M. to 8:00P M. - Hr. 30 Min (D) 1071 P.S.I.
Tool Open F.F.P. From 8:00 P M. to 9:00P M. - Hr. 60 Min. From (E) 77 P.S.I. To (F) 110 P.S.I.
Tool Closed F.C.I.P. From 9:00P M. to 10:00P M. - Hr. 60 Min. (G) 1082 P.S.I.
Initial Hydrostatic Pressure (A) 1500 P.S.I. Final Hydrostatic Pressure (H) 1490 P.S.I. Maximum Temp 109

INFORMATION

BLOW Weak 1/2" blow increasing to a fair 5" blow thru initial flow period. Weak 1" blow increasing to a fair 8" blow thru final flow period.

Did Well Flow - Yes X No - Recovery Total Ft. 110' drilling mud. Very slightly gas cut
120' of muddy salt water.

Reversed Out - Yes X No - Mud Type chem Viscosity 40 Weight 10 Water Loss 10.0 cc. Chlorides 2800 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 White & Ellis Drllg. Inc. Length Drill Pipe 2692 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.
Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 240 Ft. I.D. Drill Collars 2 1/4 In.
Tool Joint Size 4"H-90 In. Length D.S.T. Tool 97 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 11-3-75 Recorder No. 1559 Capacity 4200 Test Ticket No. 23883 Location 2960 Ft.
 Clock No. 6800 Elevation 1140 Kelly Bushing Well Temperature 109 °F

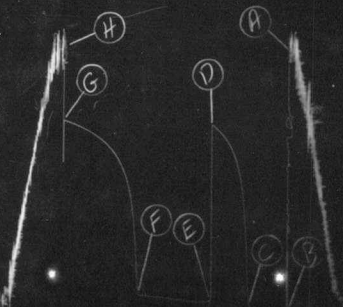
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1500</u>	P.S.I.	<u>6:57 P M</u>	
B First Initial Flow Pressure	<u>19</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>56</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1071</u>	P.S.I.	<u>60</u> Mins.	<u>55</u> Mins.
E Second Initial Flow Pressure	<u>77</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>110</u>	P.S.I.		
G Final Closed-in Pressure	<u>1082</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1490</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>10</u> Inc.		Breakdown: <u>11</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>19</u>	<u>0</u>	<u>56</u>	<u>0</u>	<u>77</u>	<u>0</u>	<u>110</u>
P 2 <u>5</u>	<u>22</u>	<u>3</u>	<u>475</u>	<u>5</u>	<u>77</u>	<u>3</u>	<u>443</u>
P 3 <u>10</u>	<u>30</u>	<u>6</u>	<u>700</u>	<u>10</u>	<u>77</u>	<u>6</u>	<u>635</u>
P 4 <u>15</u>	<u>38</u>	<u>9</u>	<u>816</u>	<u>15</u>	<u>77</u>	<u>9</u>	<u>731</u>
P 5 <u>20</u>	<u>45</u>	<u>12</u>	<u>891</u>	<u>20</u>	<u>82</u>	<u>12</u>	<u>795</u>
P 6 <u>25</u>	<u>52</u>	<u>15</u>	<u>944</u>	<u>25</u>	<u>85</u>	<u>15</u>	<u>945</u>
P 7 <u>30</u>	<u>56</u>	<u>18</u>	<u>981</u>	<u>30</u>	<u>89</u>	<u>18</u>	<u>883</u>
P 8		<u>21</u>	<u>1008</u>	<u>35</u>	<u>94</u>	<u>21</u>	<u>912</u>
P 9		<u>24</u>	<u>1036</u>	<u>40</u>	<u>98</u>	<u>24</u>	<u>938</u>
P10		<u>27</u>	<u>1055</u>	<u>45</u>	<u>102</u>	<u>27</u>	<u>960</u>
P11		<u>30</u>	<u>1078</u>	<u>50</u>	<u>106</u>	<u>30</u>	<u>977</u>
P12				<u>55</u>	<u>110</u>	<u>33</u>	<u>994</u>
P13						<u>36</u>	<u>1008</u>
P14						<u>39</u>	<u>1021</u>
P15						<u>42</u>	<u>1033</u>
P16						<u>45</u>	<u>1043</u>
P17						<u>48</u>	<u>1053</u>
P18						<u>51</u>	<u>1062</u>
P19						<u>54</u>	<u>1070</u>
P20						<u>57</u>	<u>1077</u>
						<u>60</u>	<u>1082</u>

TAT# 23883

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1559



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

Company Range Oil Company Inc. Lease & Well No. Metzinger #1
Elevation 1140 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 25450
Date 11-5-75 Sec. 28 Twp. 34S Range 3W County Cowley State Kansas
Test Approved by Gerald D. Honas Western Representative Don Burgett
Formation Test No. 6 O.K. X Misrun - Interval Tested From 3395' to 3420' Total Depth 3420'
Size Main Hole 77/8 Rat Hole - Conv. - B.T. X Damaged - Yes X No Conv. X B.T. - Damaged - Yes X No
Top Packer Depth 3390 Ft. Size 63/4 Bottom Packer Depth 3395 Ft. Size 63/4
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 25 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 3413 Ft. Clock No. 9727 Depth 3416 Ft. Clock No. 9103
Top Make Kuster Cap. 4300 No. 1566 Inside Outside Bottom Make Kuster Cap. 3200 No. 1561 Inside Outside
Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside
Time Set Packer 8:42 A M
Tool Open I.F.P. From 8:45A M. to 9:15A M. - Hr. 30 Min. From (B) 28 P.S.I. To (C) 50 P.S.I.
Tool Closed I.C.I.P. From 9:15A M. to 9:45A M. - Hr. 30 Min (D) 830 P.S.I.
Tool Open F.F.P. From 9:45A M. to 10:45A M. - Hr. 60 Min. From (E) 106 P.S.I. To (F) 84 P.S.I.
Tool Closed F.C.I.P. From 10:45A M. to 11:45A M. - Hr. 60 Min. (G) 918 P.S.I.
Initial Hydrostatic Pressure (A) 1820 P.S.I. Final Hydrostatic Pressure (H) 1798 P.S.I. Maximum Temp. 121

INFORMATION

BLOW Weak to fair, fair to weak.

Did Well Flow - Yes X No Recovery Total Ft. 10' watery mud with slight show of oil, 59' of mud with slight show of oil.

Reversed Out - Yes X No Mud Type chem Viscosity 36 Weight 9.6 Water Loss 13.6 cc. Chlorides 2400 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 White & Ellis Drlg. Inc. Length Drill Pipe? 3290 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 85 Ft. I.D. Drill Collars 2.5 In.

Tool Joint Size 4 1/2 H-90 In. Length D.S.T. Tool 45 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 11-5-75

Test Ticket No. 25450

Recorder No. 1566 Capacity 4300 Location 3414 Ft.

Clock No. 9727 Elevation 1140 Kelly Bushing Well Temperature 121 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1820</u> P.S.I.	Open Tool	<u>8:42A</u> M	
B First Initial Flow Pressure	<u>28</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>50</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>830</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>106</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>54</u> Mins.
F Second Final Flow Pressure	<u>84</u> P.S.I.			
G Final Closed-in Pressure	<u>918</u> P.S.I.			
H Final Hydrostatic Mud	<u>1798</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>10</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>18</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>28</u>	<u>0</u>	<u>50</u>	<u>0</u>	<u>106</u>	<u>0</u>	<u>84</u>
P 2 <u>5</u>	<u>39</u>	<u>3</u>	<u>67</u>	<u>5</u>	<u>86</u>	<u>3</u>	<u>97</u>
P 3 <u>10</u>	<u>41</u>	<u>6</u>	<u>91</u>	<u>10</u>	<u>84</u>	<u>6</u>	<u>110</u>
P 4 <u>15</u>	<u>42</u>	<u>9</u>	<u>143</u>	<u>15</u>	<u>84</u>	<u>9</u>	<u>132</u>
P 5 <u>20</u>	<u>43</u>	<u>12</u>	<u>229</u>	<u>20</u>	<u>84</u>	<u>12</u>	<u>162</u>
P 6 <u>25</u>	<u>45</u>	<u>15</u>	<u>389</u>	<u>25</u>	<u>84</u>	<u>15</u>	<u>205</u>
P 7 <u>30</u>	<u>50</u>	<u>18</u>	<u>521</u>	<u>30</u>	<u>84</u>	<u>18</u>	<u>270</u>
P 8		<u>21</u>	<u>633</u>	<u>35</u>	<u>84</u>	<u>21</u>	<u>357</u>
P 9		<u>24</u>	<u>745</u>	<u>40</u>	<u>84</u>	<u>24</u>	<u>448</u>
P10		<u>27</u>	<u>798</u>	<u>45</u>	<u>84</u>	<u>27</u>	<u>532</u>
P11		<u>30</u>	<u>830</u>	<u>50</u>	<u>84</u>	<u>30</u>	<u>603</u>
P12				<u>55</u>	<u>84</u>	<u>33</u>	<u>669</u>
P13				<u>60</u>	<u>84</u>	<u>36</u>	<u>712</u>
P14						<u>39</u>	<u>759</u>
P15						<u>42</u>	<u>800</u>
P16						<u>45</u>	<u>837</u>
P17						<u>48</u>	<u>869</u>
P18						<u>51</u>	<u>897</u>
P19						<u>54</u>	<u>918</u>
P20							

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