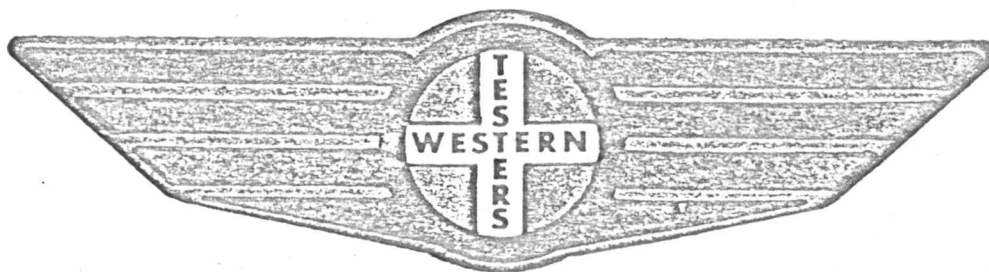


FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company The National Oil Company Lease & Well No. Larrison #1
 Elevation 1923 Ground Level Formation Mississippi Effective Pay - Ft. Ticket No. 4000
 Date 10-27-79 Sec. 27 Twp. 29S Range 13W County Pratt State Kansas
 Test Approved by Jay R. Dirks Western Representative Jim Wondra

Formation Test No. 1 Interval Tested from 4397 ft. to 4433 ft. Total Depth 4433 ft.
 Packer Depth 4392 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4397 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4423 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 4426 ft. Recorder Number 3351 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Denture Dr'g. (#2) Drill Collar Length 62 I. D. 2 1/4 in.
 Mud Type Premix-MonPac Viscosity 41 Weight Pipe Length 669 I. D. 2.7 in.
 Weight 9.3 Water Loss 14.0 cc. Drill Pipe Length 3637 I. D. 3.8 in.
 Chlorides 34,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.
 Jars: Make W.T.C. Serial Number 410 Anchor Length 36 ft. Size 5 1/2 OD 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 FH in.

Blow: Weak increased to strong blow on first flow period. Strong blow throughout second flow period.

Recovered 30 ft. of drilling mud.
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks: _____

Time Set Packer(s) 9:45 ~~====A.M.~~ P.M. Time Started Off Bottom 12:45 ~~==P.M.~~ A.M. Maximum Temperature 124
 Initial Hydrostatic Pressure (A) 2228 P.S.I.
 Initial Flow Period Minutes 30 (B) 87 P.S.I. to (C) 71 P.S.I.
 Initial Closed In Period Minutes 45 (D) 455 P.S.I.
 Final Flow Period Minutes 60 (E) 74 P.S.I. to (F) 57 P.S.I.
 Final Closed In Period Minutes 45 (G) 521 P.S.I.
 Final Hydrostatic Pressure (H) 2209 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 10-27-79

Test Ticket No. 4000

Recorder No. 2607 Capacity 4150 Location 4423 Ft.

Clock No. --- Elevation 1923 Kelly Bushing Well Temperature 124 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>2228</u> P.S.I.	Open Tool	<u>9:45P.</u> M	
B. First Initial Flow Pressure	<u>87</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C. First Final Flow Pressure	<u>71</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D. Initial Closed-in Pressure	<u>455</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E. Second Initial Flow Pressure	<u>74</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
F. Second Final Flow Pressure	<u>57</u> P.S.I.			
G. Final Closed-in Pressure	<u>521</u> P.S.I.			
H. Final Hydrostatic Mud	<u>2209</u> P.S.I.			

PRESSURE BREAKDOWN

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

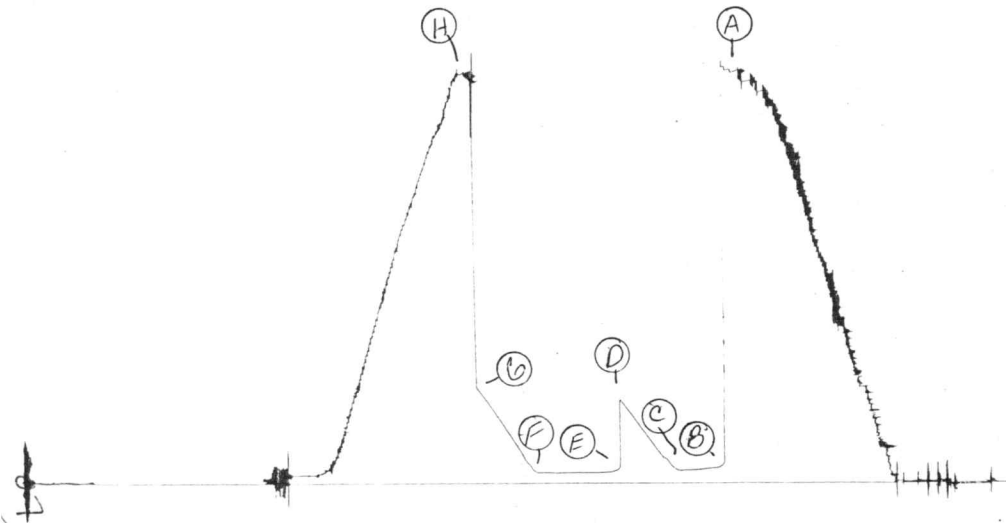
Initial Shut-In
Breakdown: 15 Inc.
of 3 mins. and a
final inc. of 0 Min.

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

Final Shut-In
Breakdown: 15 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>87</u>	<u>0</u>	<u>71</u>	<u>0</u>	<u>74</u>	<u>0</u>	<u>57</u>
P 2 <u>5</u>	<u>84</u>	<u>3</u>	<u>72</u>	<u>5</u>	<u>70</u>	<u>3</u>	<u>70</u>
P 3 <u>10</u>	<u>80</u>	<u>6</u>	<u>84</u>	<u>10</u>	<u>61</u>	<u>6</u>	<u>101</u>
P 4 <u>15</u>	<u>76</u>	<u>9</u>	<u>104</u>	<u>15</u>	<u>58</u>	<u>9</u>	<u>125</u>
P 5 <u>20</u>	<u>75</u>	<u>12</u>	<u>131</u>	<u>20</u>	<u>58</u>	<u>12</u>	<u>167</u>
P 6 <u>25</u>	<u>73</u>	<u>15</u>	<u>144</u>	<u>25</u>	<u>57</u>	<u>15</u>	<u>205</u>
P 7 <u>30</u>	<u>71</u>	<u>18</u>	<u>174</u>	<u>30</u>	<u>57</u>	<u>18</u>	<u>236</u>
P 8 _____		<u>21</u>	<u>203</u>	<u>35</u>	<u>57</u>	<u>21</u>	<u>269</u>
P 9 _____		<u>24</u>	<u>237</u>	<u>40</u>	<u>57</u>	<u>24</u>	<u>303</u>
P10 _____		<u>27</u>	<u>267</u>	<u>45</u>	<u>57</u>	<u>27</u>	<u>339</u>
P11 _____		<u>30</u>	<u>299</u>	<u>50</u>	<u>57</u>	<u>30</u>	<u>369</u>
P12 _____		<u>33</u>	<u>328</u>	<u>55</u>	<u>57</u>	<u>33</u>	<u>402</u>
P13 _____		<u>36</u>	<u>360</u>	<u>60</u>	<u>57</u>	<u>36</u>	<u>432</u>
P14 _____		<u>39</u>	<u>388</u>			<u>39</u>	<u>466</u>
P15 _____		<u>42</u>	<u>440</u>			<u>42</u>	<u>496</u>
P16 _____		<u>45</u>	<u>455</u>			<u>45</u>	<u>521</u>
P17 _____							
P18 _____							
P19 _____							
P20 _____							

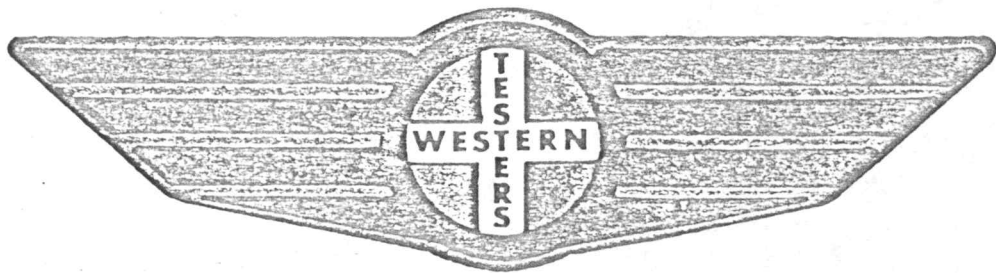
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company The National Oil Company Lease & Well No. Larrison #1
 Elevation 1923 Ground Level Simpson Formation Effective Pay -- Ft. Ticket No. 4044
 Date 10/29/79 Sec. 27 Twp. 29S Range 13W County Pratt State Kansas
 Test Approved by Jay R. Dirks Western Representative Mike Tritt-Bill Hager

Formation Test No. 2 Interval Tested from 4620 ft. to 4645 ft. Total Depth 4645 ft.
 Packer Depth 4615 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4620 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4634 ft. Recorder Number 3354 Cap. 4200
 Bottom Recorder Depth (Outside) 4637 ft. Recorder Number 2605 Cap. 4150
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Venture Drilling Co. Drill Collar Length 124 I. D. 2 1/4 in.
 Mud Type premix-Mon-Pac Viscosity 45 Weight Pipe Length 682 I. D. 3.0 in.
 Weight 9.3 Water Loss 8.0 cc. Drill Pipe Length 3785 I. D. 3.8 in.
 Chlorides 34,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.
 Jars: Make WTC Serial Number 406 Anchor Length 25 ft. Size 5 1/2 OD 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 - in.

Blow: Strong blow throughout test.

Recovered 2000 ft. of salt water
 Recovered - ft. of -
 Recovered - ft. of -
 Recovered - ft. of -
 Recovered - ft. of -

Remarks: Chlorides 75,000 ppm

Time Set Packer(s) 5:15 A.M. Time Started Off Bottom 8:15 A.M. Maximum Temperature 135⁰
P.M. P.M.
 Initial Hydrostatic Pressure (A) 2324 P.S.I.
 Initial Flow Period Minutes 30 (B) 203 P.S.I. to (C) 726 P.S.I.
 Initial Closed In Period Minutes 45 (D) 947 P.S.I.
 Final Flow Period Minutes 60 (E) 770 P.S.I. to (F) 939 P.S.I.
 Final Closed In Period Minutes 45 (G) 948 P.S.I.
 Final Hydrostatic Pressure (H) 2301 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 10/29/79 Test Ticket No. 4044
 Recorder No. 3354 Capacity 4200 Location 4634 Ft.
 Clock No. -- Elevation 1923 Ground Level Well Temperature 135 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2324 P.S.I.	Open Tool	5:15A M	
B First Initial Flow Pressure	203 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	726 P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
D Initial Closed-in Pressure	947 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	770 P.S.I.	Final Closed-in Pressure	45 Mins.	45 Mins.
F Second Final Flow Pressure	939 P.S.I.			
G Final Closed-in Pressure	948 P.S.I.			
H Final Hydrostatic Mud	2301 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: 15 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

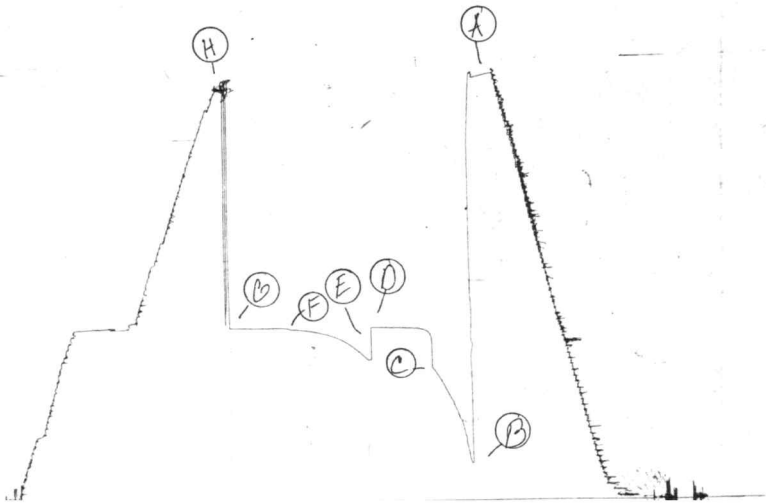
Second Flow Pressure
 Breakdown: 12 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 15 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	203	0	726	0	770	0	939
P 2 5	344	3	920	5	787	3	945
P 3 10	449	6	935	10	821	6	948
P 4 15	549	9	940	15	848	9	948
P 5 20	610	12	942	20	873	12	948
P 6 25	677	15	943	25	890	15	948
P 7 30	726	18	943	30	905	18	948
P 8		21	943	35	914	21	948
P 9		24	943	40	922	24	948
P10		27	945	45	928	27	948
P11		30	947	50	934	30	948
P12		33	947	55	938	33	948
P13		36	947	60	939	36	948
P14		39	947			39	948
P15		42	947			42	948
P16		45	947			45	948
P17							
P18							
P19							
P20							

535

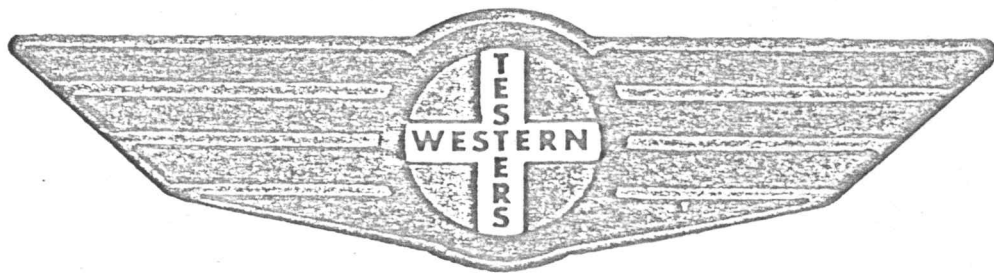
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company THE NATIONAL OIL COMPANY Lease & Well No. #1 LARRISON Sec. 27 Twp. 29S Rge. 13W Test No. 3 Date 10/30/79

Company The National Oil Company Lease & Well No. Larrison #1
 Elevation 1928 Kelly Bushing Formation -- Effective Pay -- Ft. Ticket No. 4045
 Date 10/30/79 Sec. 27 Twp. 29S Range 13W County Pratt State Kansas
 Test Approved by Clarence Michael Western Representative Jim Wondra-Mike Tritt

Formation Test No. 3 Interval Tested from 4510 ft. to 4540 ft. Total Depth 4645 ft.
 Packer Depth 4510 ft. Size 6 3/4 in. Packer Depth 4545 ft. Size 6 3/4 in.
 Packer Depth 4540 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4527 ft. Recorder Number 3354 Cap. 4200
 Bottom Recorder Depth (Outside) 4530 ft. Recorder Number 2605 Cap. 4150
 Below Straddle Recorder Depth 4645 ft. Recorder Number 1563 Cap. 3150

Drilling Contractor Venture Drilling Drill Collar Length 62 I. D. 2 1/4 in.
 Mud Type premix-Mon-Pac Viscosity 45 Weight Pipe Length 558 I. D. 3.0 in.
 Weight 9.2 Water Loss 10.0 cc. Drill Pipe Length 3865 I. D. 3.8 in.
 Chlorides 37,000 P.P.M. Test Tool Length 60 ft. Tool Size 5 1/2 OD in.
 Jars: Make WTC Serial Number 404 Anchor Length 100 ft. Size 5 1/2 OD in.
 Did Well Flow? NO Reversed Out Yes 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: Strong blow throughout test.

Recovered 900 ft. of salt water (55,000 chlorides ppm)
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks: NOTE: Waited on daylight twenty minutes on final shut-in before pulling.

Time Set Packer(s) 4:15 ~~A.M.~~ P.M. Time Started Off Bottom 7:35 ~~A.M.~~ P.M. Maximum Temperature 130⁰
 Initial Hydrostatic Pressure (A) 2282 P.S.I.
 Initial Flow Period Minutes 30 (B) 61 P.S.I. to (C) 80 P.S.I.
 Initial Closed In Period Minutes 51 (D) 1342 P.S.I.
 Final Flow Period Minutes 55 (E) 97 P.S.I. to (F) Packer Failure P.S.I.
 Final Closed In Period Minutes 65 (G) Packer Failure P.S.I.
 Final Hydrostatic Pressure (H) 2250 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

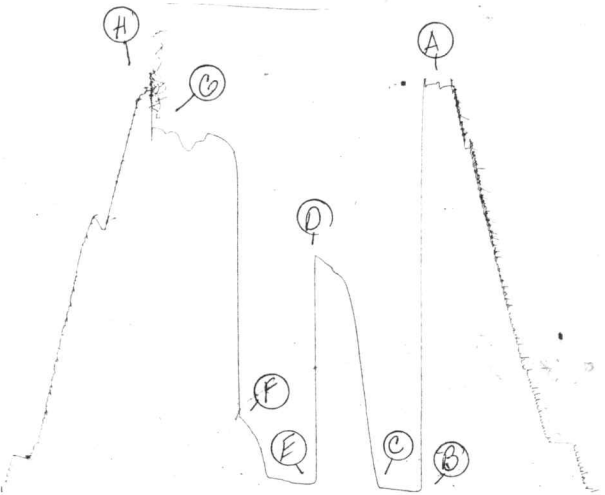
Date 10/30/79 Test Ticket No. 4045
 Recorder No. 3354 Capacity 4200 Location 4527 Ft.
 Clock No. 1928 Elevation Kelly Bushing Well Temperature 130 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	2282 P.S.I.	4:15A	M
B First Initial Flow Pressure	61 P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	80 P.S.I.	45 Mins.	51 Mins.
D Initial Closed-in Pressure	1342 P.S.I.	60 Mins.	55 Mins.
E Second Initial Flow Pressure	97 P.S.I.	65 Mins.	65 Mins.
F Second Final Flow Pressure	Packer Failure P.S.I.		
G Final Closed-in Pressure	Packer Failure P.S.I.		
H Final Hydrostatic Mud	2250 P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>17</u> Inc.		Breakdown: <u>11</u> Inc.		Breakdown: <u>22</u> Inc.	
of <u>5</u> mins. and a final inc. of <u>0</u> Min.		of <u>3</u> mins. and a final inc. of <u>0</u> Min.		of <u>5</u> mins. and a final inc. of <u>0</u> Min.		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>61</u>	<u>0</u>	<u>80</u>	<u>0</u>	<u>97</u>	<u>0</u>	<u>Packer Failure</u>
P 2 <u>5</u>	<u>61</u>	<u>3</u>	<u>167</u>	<u>5</u>	<u>97</u>	<u>3</u>	<u>Packer Failure</u>
P 3 <u>10</u>	<u>63</u>	<u>6</u>	<u>297</u>	<u>10</u>	<u>99</u>	<u>6</u>	<u>Packer Failure</u>
P 4 <u>15</u>	<u>68</u>	<u>9</u>	<u>458</u>	<u>15</u>	<u>108</u>	<u>9</u>	<u>Packer Failure</u>
P 5 <u>20</u>	<u>72</u>	<u>12</u>	<u>597</u>	<u>20</u>	<u>116</u>	<u>12</u>	<u>Packer Failure</u>
P 6 <u>25</u>	<u>76</u>	<u>15</u>	<u>722</u>	<u>25</u>	<u>124</u>	<u>15</u>	<u>Packer Failure</u>
P 7 <u>30</u>	<u>80</u>	<u>18</u>	<u>882</u>	<u>30</u>	<u>129</u>	<u>18</u>	<u>Packer Failure</u>
P 8		<u>21</u>	<u>1025</u>	<u>35</u>	<u>Packer Failure</u>	<u>21</u>	<u>Packer Failure</u>
P 9		<u>24</u>	<u>1116</u>	<u>40</u>	<u>Packer Failure</u>	<u>24</u>	<u>Packer Failure</u>
P10		<u>27</u>	<u>1188</u>	<u>45</u>	<u>Packer Failure</u>	<u>27</u>	<u>Packer Failure</u>
P11		<u>30</u>	<u>1224</u>	<u>50</u>	<u>Packer Failure</u>	<u>30</u>	<u>Packer Failure</u>
P12		<u>33</u>	<u>1243</u>	<u>55</u>	<u>Packer Failure</u>	<u>33</u>	<u>Packer Failure</u>
P13		<u>36</u>	<u>1253</u>			<u>36</u>	<u>Packer Failure</u>
P14		<u>39</u>	<u>1287</u>			<u>39</u>	<u>Packer Failure</u>
P15		<u>42</u>	<u>1302</u>			<u>42</u>	<u>Packer Failure</u>
P16		<u>45</u>	<u>1319</u>			<u>45</u>	<u>Packer Failure</u>
P17		<u>48</u>	<u>1333</u>			<u>48</u>	<u>Packer Failure</u>
P18		<u>51</u>	<u>1342</u>			<u>51</u>	<u>Packer Failure</u>
P19						<u>54</u>	<u>Packer Failure</u>
P20						<u>57</u>	<u>Packer Failure</u>
						<u>60</u>	<u>Packer Failure</u>
						<u>63</u>	<u>Packer Failure</u>
						<u>65</u>	<u>Packer Failure</u>

TKT # 4045
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IKT # 4045
Below Straddle

