



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

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 1584

Elevation _____ Formation KANSAS CITY Eff. Pay _____ Ft. _____

District PATT Date 1-30-79 Customer Order No. _____

COMPANY NAME Dunne & Gardner Inc

ADDRESS Suite 250 West Douglas Wichita Kansas 67202

LEASE AND WELL NO Stuhlatz #1 COUNTY Summer STATE KANSAS Sec. 20 Twp. 30 Rge. 3

Mail Invoice To Stuhlatz #1 Co. Name SAME Address _____ No. Copies Requested 5

Mail Charts To _____ Address SAME No. Copies Requested 5

Formation Test No. 7 Interval Tested from 3353 ft. to 3365 ft. Total Depth 3365 ft.

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

Packer Depth 3353 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3355 ft. Recorder Number 3660 Cap. 4000

Bottom Recorder Depth (Outside) 3358 ft. Recorder Number 1560 Cap. 6000

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

Drilling Contractor Company Tools Rig Drill Collar Length _____ I. D. _____ in.

Mud Type Premix-Solvent Slurry Weight _____ I. D. _____ in.

Weight 10.0 Water Loss 2.2 cc. Drill Pipe Length 3342 I. D. 3.8 in.

Chlorides 39,000 P.P.M. Test Tool Length 23 in. Tool Size 5 3/4 in.

Jars: Make _____ Serial Number _____ Anchor Length 12 ft. Size 5 1/2 in.

Did Well Flow? NO Reversed Out NO Surface Choke Size 3 1/4 in. Bottom Choke Size 3 1/4 in.

Main Hole Size 2 1/2 in. Tool Joint Size 4 1/2 in.

Blow: Strong for first Period: Strong & got to surface in 28 min of second Period.

Recovered 26 ft. of Slurry Gas Cut Oil

Recovered 62 ft. of GAS CUT Muddy Oil

Recovered 100 ft. of HEAVY GAS CUT Oil

Recovered 100 ft. of HEAVY GAS CUT Oil

Recovered 200 ft. of TOOTH

Remarks: (Gas wasn't enough to gauge)

RECEIVED
FEB - 1 1979
REGISTRY

Time Set Packer(s) 1 55 AM Time Started Off Bottom 4 55 AM Maximum Temperature 115°

Initial Hydrostatic Pressure _____ (A) 1806 P.S.I.

Initial Flow Period _____ Minutes 30 (B) 30 P.S.I. to (C) 50 P.S.I.

Initial Closed In Period _____ Minutes 45 (D) 1253 P.S.I.

Final Flow Period _____ Minutes 45 (E) 80 P.S.I. to (F) 111 P.S.I.

Final Closed In Period _____ Minutes 60 (G) 1263 P.S.I.

Final Hydrostatic Pressure _____ (H) 1776 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 Arden Katzlaff
Signature of Customer or his authorized representative

Western Representative Ron Emmons Thank You

FIELD INVOICE

Open Hole Test \$ 440.00
Misrun \$ _____
Straddle Test \$ _____
Jars \$ _____
Selective Zone \$ _____
Safety Joint \$ _____
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ _____
Mileage \$ _____
Extra Charts \$ _____

TOTAL \$ 440.00

WESTERN TESTING CO., INC.

Pressure Data

Date 1-30-79 Test Ticket No. 1584
 Recorder No. 3660 Capacity 4000 Location 3355 Ft.
 Clock No. _____ Elevation _____ Well Temperature 115 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1802</u> P.S.I.	<u>1:55</u> P.M.	
B First Initial Flow Pressure	<u>55</u> P.S.I.	<u>30</u> Mins	<u>30</u> Mins.
C First Final Flow Pressure	<u>50</u> P.S.I.	<u>45</u> Mins	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1259</u> P.S.I.	<u>45</u> Mins	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>101</u> P.S.I.	<u>60</u> Mins	<u>60</u> Mins.
F Second Final Flow Pressure	<u>97</u> P.S.I.		
G Final Closed-in Pressure	<u>1257</u> P.S.I.		
H Final Hydrostatic Mud	<u>1760</u> 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>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>20</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 0	<u>55</u>	0	<u>50</u>	0	<u>101</u>	0	<u>97</u>
P 2 5	<u>30</u>	3	<u>172</u>	5	<u>79</u>	3	<u>265</u>
P 3 10	<u>28</u>	6	<u>407</u>	10	<u>77</u>	6	<u>585</u>
P 4 15	<u>29 38</u>	9	<u>665</u>	15	<u>77</u>	9	<u>839</u>
P 5 20	<u>34</u>	12	<u>883</u>	20	<u>79</u>	12	<u>990</u>
P 6 25	<u>43</u>	15	<u>1048</u>	25	<u>83</u>	15	<u>1076</u>
P 7 30	<u>50</u>	18	<u>1127</u>	30	<u>87</u>	18	<u>1131</u>
P 8 35		21	<u>1191</u>	35	<u>91</u>	21	<u>1169</u>
P 9 40		24	<u>1197</u>	40	<u>93</u>	24	<u>1193</u>
P10 45		27	<u>1215</u>	45	<u>97</u>	27	<u>1205</u>
P11 50		30	<u>1229</u>	50		30	<u>1217</u>
P12 55		33	<u>1237</u>	55		33	<u>1227</u>
P13 60		36	<u>1245</u>	60		36	<u>1233</u>
P14		39	<u>1249</u>	65		39	<u>1239</u>
P15		42	<u>1255</u>	70		42	<u>1243</u>
P16		45	<u>1259</u>	75		45	<u>1247</u>
P17		48		80		48	<u>1249</u>
P18		51		85		51	<u>1251</u>
P19		54		90		54	<u>1253</u>
P20		57				57	<u>1255</u>
		60				60	<u>1257</u>

Blow: Strong for first period; strong and gas to surface in 28 minutes of second period.

Remarks: _____

Time	Set	Packer(s)	Time	Set	Packer(s)	Time	Started	Off	Bottom	Time	Set	Packer(s)	Maximum	Temperature	115
			1:55	Time	Set					4:55	Time	Set			
				P.M.							P.M.				
Initial	Hydrostatic	Pressure				(A)			1802		P.S.I.				
Initial	Flow	Period			Minutes	30		(B)	55		P.S.I.	to (C)	50		P.S.I.
Initial	Closed	In	Period		Minutes	45		(D)	1259		P.S.I.				
Final	Flow	Period			Minutes	45		(E)	101		P.S.I.	to (F)	97		P.S.I.
Final	Closed	In	Period		Minutes	60		(G)	1257		P.S.I.				
Final	Hydrostatic	Pressure				(H)			1760		P.S.I.				

WESTERN TESTING CO., INC.

Pressure Data

Date 1/30/79 Test Ticket No. 1584
 Recorder No. 3660 Capacity 4000 Location 3355 Ft.
 Clock No. -- Elevation -- Well Temperature 115 °F

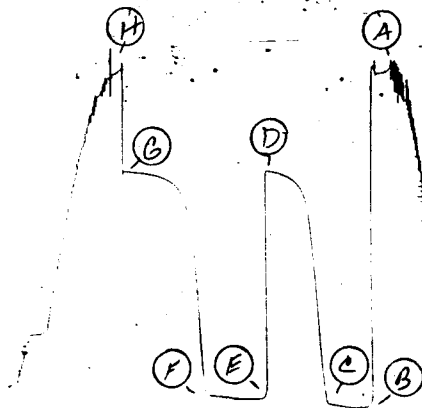
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1802 P.S.I.	Open Tool	1:55P	M
B First Initial Flow Pressure	55 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	50 P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
D Initial Closed-in Pressure	1259 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	101 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	97 P.S.I.			
G Final Closed-in Pressure	1257 P.S.I.			
H Final Hydrostatic Mud	1760 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>9</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>55</u>	<u>0</u>	<u>50</u>	<u>0</u>	<u>101</u>	<u>0</u>	<u>97</u>
P 2 <u>5</u>	<u>30</u>	<u>3</u>	<u>172</u>	<u>5</u>	<u>79</u>	<u>3</u>	<u>265</u>
P 3 <u>10</u>	<u>28</u>	<u>6</u>	<u>407</u>	<u>10</u>	<u>77</u>	<u>6</u>	<u>595</u>
P 4 <u>15</u>	<u>29</u>	<u>9</u>	<u>665</u>	<u>15</u>	<u>77</u>	<u>9</u>	<u>839</u>
P 5 <u>20</u>	<u>34</u>	<u>12</u>	<u>883</u>	<u>20</u>	<u>79</u>	<u>12</u>	<u>990</u>
P 6 <u>25</u>	<u>43</u>	<u>15</u>	<u>1048</u>	<u>25</u>	<u>83</u>	<u>15</u>	<u>1076</u>
P 7 <u>30</u>	<u>50</u>	<u>18</u>	<u>1127</u>	<u>30</u>	<u>87</u>	<u>18</u>	<u>1131</u>
P 8		<u>21</u>	<u>1171</u>	<u>35</u>	<u>91</u>	<u>21</u>	<u>1169</u>
P 9		<u>24</u>	<u>1197</u>	<u>40</u>	<u>93</u>	<u>24</u>	<u>1193</u>
P10		<u>27</u>	<u>1215</u>	<u>45</u>	<u>97</u>	<u>27</u>	<u>1205</u>
P11		<u>30</u>	<u>1229</u>			<u>30</u>	<u>1217</u>
P12		<u>33</u>	<u>1237</u>			<u>33</u>	<u>1227</u>
P13		<u>36</u>	<u>1245</u>			<u>36</u>	<u>1233</u>
P14		<u>39</u>	<u>1249</u>			<u>39</u>	<u>1239</u>
P15		<u>42</u>	<u>1255</u>			<u>42</u>	<u>1243</u>
P16		<u>45</u>	<u>1259</u>			<u>45</u>	<u>1247</u>
P17						<u>48</u>	<u>1249</u>
P18						<u>51</u>	<u>1251</u>
P19						<u>54</u>	<u>1253</u>
P20						<u>57</u>	<u>1255</u>
						<u>60</u>	<u>1257</u>

TKE # 1584

±



3660



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 1585

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

Elevation _____ Formation KANSAS City Eff. Pay _____ Ft.

District Pratt Date 1-31-79 Customer Order No. _____

COMPANY NAME Dunne + Gardner Inc.

ADDRESS Suite 250 200 West Douglas Wichita Kansas 67202

LEASE AND WELL NO Stuhlatz #1 COUNTY Sumner STATE KANSAS Sec. 20 Twp 30 Rge 3

Mail Invoice To Stuhlatz #1 Co. Name SAME Address SAME No. Copies Requested 5

Mail Charts To SAME Address SAME No. Copies Requested 5

Formation Test No. 52 Interval Tested from 3378 ft. to 3400 ft. Total Depth 3400 ft.

Packer Depth 3323 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 3378 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3380 ft.

Recorder Number 3660 Cap. 4000

Bottom Recorder Depth (Outside) 3383 ft.

Recorder Number 1560 Cap. 6000

Below Straddle Recorder Depth _____ ft.

Recorder Number _____ Cap. _____

Drilling Contractor Company Tools P's #

Drill Collar Length _____ I. D. _____ in.

Mud Type Premix Starch Viscosity 44

Weight Pipe Length 682 I. D. 2.7 in.

Weight 10.0 Water Loss 64 cc.

Drill Pipe Length 2674 I. D. 3.2 in.

Chlorides 44,000 P.P.M.

Test Tool Length 23 in. Tool Size 5 1/2 O.D.

Jars: Make _____ Serial Number _____

Anchor Length 21 ft. Size 5 1/2 O.D.

Did Well Flow? NO Reversed Out NO

Surface Choke Size 3 1/4 in. Bottom Choke Size 3 1/4 in.

Main Hole Size 2 1/2 in. Tool Joint Size 1 1/2 1 1/2 in.

Blow: Weak To Strong Blow first Period Weak To strong second Period

Recovered 10 ft. of Heavy Gas Cut oily mud

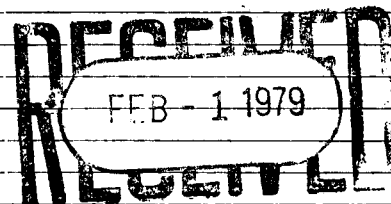
Recovered 124 ft. of oil cut mud

Recovered 62 ft. of Gas Cut oily mud

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: Gas in service 40 min.



Time Set Packer(s) 6:05 A.M. Time Started Off Bottom 9:35 A.M. Maximum Temperature 116°

Initial Hydrostatic Pressure _____ (A) 1806 P.S.I.

Initial Flow Period _____ Minutes 30 (B) 50 P.S.I. to (C) 60 P.S.I.

Initial Closed In Period _____ Minutes 60 (D) 1342 P.S.I.

Final Flow Period _____ Minutes 60 (E) 80 P.S.I. to (F) 107 P.S.I.

Final Closed In Period _____ Minutes 60 (G) 1313 P.S.I.

Final Hydrostatic Pressure _____ (H) 1796 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 Arden Ratloff
Signature of Customer or his authorized representative

Western Representative Ron Emmons Thank You

FIELD INVOICE

Open Hole Test \$ 740.00
Misrun \$ _____
Straddle Test \$ _____
Jars \$ _____
Selective Zone \$ _____
Safety Joint \$ _____
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ _____
Mileage \$ _____
Extra Charts \$ _____

TOTAL \$ 740.00

WESTERN TESTING CO., INC.

Pressure Data

Date 1-31-79 Test Ticket No. 1585
 Recorder No. 3660 Capacity 4000 Location 3380 Ft.
 Clock No. Elevation Well Temperature 116 °F
 Point Pressure Time Given Time Computed
 A Initial Hydrostatic Mud 1810 P.S.I. Open Tool 6:05 A M
 B First Initial Flow Pressure 57 P.S.I. First Flow Pressure 30 Mins. 30 Mins.
 C First Final Flow Pressure 50 P.S.I. Initial Closed-in Pressure 60 Mins. 60 Mins.
 D Initial Closed-in Pressure 1235 P.S.I. Second Flow Pressure 60 Mins. 60 Mins.
 E Second Initial Flow Pressure 105 P.S.I. Final Closed-in Pressure 60 Mins. 60 Mins.
 F Second Final Flow Pressure 97 P.S.I.
 G Final Closed-in Pressure 1309 P.S.I.
 H Final Hydrostatic Mud 1784 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>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>20</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 0	<u>57</u>	0	<u>50</u>	0	<u>105</u>	0	<u>97</u>
P 2 5	<u>45</u>	3	<u>67</u>	5	<u>83</u>	3	<u>144</u>
P 3 10	<u>43</u>	6	<u>132</u>	10	<u>81</u>	6	<u>249</u>
P 4 15	<u>44</u>	9	<u>259</u>	15	<u>81</u>	9	<u>443</u>
P 5 20	<u>45</u>	12	<u>496</u>	20	<u>84</u>	12	<u>696</u>
P 6 25	<u>49</u>	15	<u>823</u>	25	<u>85</u>	15	<u>933</u>
P 7 30	<u>50</u>	18	<u>1052</u>	30	<u>85</u>	18	<u>1080</u>
P 8 35		21	<u>1159</u>	35	<u>86</u>	21	<u>1147</u>
P 9 40		24	<u>1207</u>	40	<u>88</u>	24	<u>1179</u>
P10 45		27	<u>1235</u>	45	<u>90</u>	27	<u>1207</u>
P11 50		30	<u>1247</u>	50	<u>92</u>	30	<u>1229</u>
P12 55		33	<u>1273</u>	55	<u>95</u>	33	<u>1245</u>
P13 60		36	<u>1287</u>	60	<u>97</u>	36	<u>1257</u>
P14		39	<u>1297</u>	65		39	<u>1265</u>
P15		42	<u>1309</u>	70		42	<u>1273</u>
P16		45	<u>1319</u>	75		45	<u>1283</u>
P17		48	<u>1301</u>	80		48	<u>1287</u>
P18		51 <u>1317</u> 1317		85		51	<u>1293</u>
P19		54 <u>1327</u> 1327		90		54	<u>1297</u>
P20		57 <u>1325</u>				57	<u>1303</u>
		60 <u>1335</u>				60	<u>1309</u>

Company Dunne & Gardner Petroleum, Inc. Lease & Well No. Stuhlsatz "C" #1
Elevation -- Formation Kansas City Effective Pay -- Ft. Ticket No. 1585
Date 1/31/79 Sec. 20 Twp. 30S Range 3W County Sumner State Kansas
Test Approved by Arden Ratzlaff Western Representative Ron Emmons

Formation Test No. 2 Interval Tested from 3378' ft. to 3400' ft. Total Depth 3400' ft.

Packer Depth 3373 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3378 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 3380 ft. Recorder Number 3660 Cap. 4000

Bottom Recorder Depth (Outside) 3383 ft. Recorder Number 1560 Cap. 6000

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

Drilling Contractor Dunne-Gardner Petroleum, Inc. Drill Collar Length - I. D. - in.

Mud Type premix-starch Viscosity 44 Weight Pipe Length 682 I. D. 2.7 in.

Weight 10.0 Water Loss 6.4 cc. Drill Pipe Length 2674 I. D. 3.8 in.

Chlorides 44,000 P.P.M. Test Tool Length 23' in. Tool Size 5 1/2 OD in.

Jars: Make -- Serial Number -- Anchor Length 21' ft. Size 5 1/2 OD 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: Weak to a strong blow first period; weak to strong second period.

Recovered 10 ft. of heavy gas cut oil mud

Recovered 124 ft. of oil cut mud

Recovered 62 ft. of gas cut oil mud

Recovered - ft. of -

Recovered - ft. of -

Remarks: Gas to surface in 40 minutes.

Time Set Packer(s) 6:05 A.M. Time Started Off Bottom 9:25 A.M. Maximum Temperature 116

Initial Hydrostatic Pressure (A) 1810 P.S.I.

Initial Flow Period Minutes 30 (B) 57 P.S.I. to (C) 50 P.S.I.

Initial Closed In Period Minutes 60 (D) 1335 P.S.I.

Final Flow Period Minutes 60 (E) 105 P.S.I. to (F) 97 P.S.I.

Final Closed In Period Minutes 60 (G) 1309 P.S.I.

Final Hydrostatic Pressure (H) 1784 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

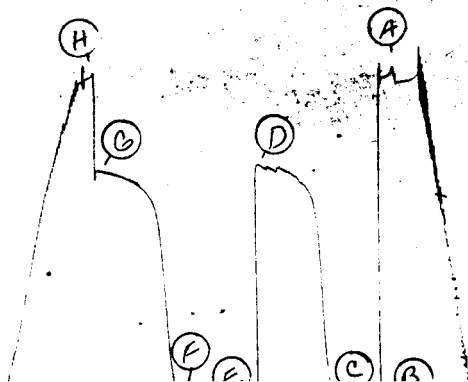
Date 1/31/79 Test Ticket No. 1585
 Recorder No. 3660 Capacity 4000 Location 3380 Ft.
 Clock No. -- Elevation -- Well Temperature 116 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1810 P.S.I.	Open Tool	6:05A M	
B First Initial Flow Pressure	57 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	50 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1335 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	105 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	97 P.S.I.			
G Final Closed-in Pressure	1309 P.S.I.			
H Final Hydrostatic Mud	1784 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</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>57</u>	<u>0</u>	<u>50</u>	<u>0</u>	<u>105</u>	<u>0</u>	<u>97</u>
P 2 <u>5</u>	<u>45</u>	<u>3</u>	<u>67</u>	<u>5</u>	<u>83</u>	<u>3</u>	<u>144</u>
P 3 <u>10</u>	<u>43</u>	<u>6</u>	<u>132</u>	<u>10</u>	<u>81</u>	<u>6</u>	<u>249</u>
P 4 <u>15</u>	<u>44</u>	<u>9</u>	<u>259</u>	<u>15</u>	<u>81</u>	<u>9</u>	<u>443</u>
P 5 <u>20</u>	<u>45</u>	<u>12</u>	<u>496</u>	<u>20</u>	<u>84</u>	<u>12</u>	<u>696</u>
P 6 <u>25</u>	<u>49</u>	<u>15</u>	<u>823</u>	<u>25</u>	<u>85</u>	<u>15</u>	<u>933</u>
P 7 <u>30</u>	<u>50</u>	<u>18</u>	<u>1052</u>	<u>30</u>	<u>85</u>	<u>18</u>	<u>1080</u>
P 8		<u>21</u>	<u>1159</u>	<u>35</u>	<u>86</u>	<u>21</u>	<u>1147</u>
P 9		<u>24</u>	<u>1207</u>	<u>40</u>	<u>88</u>	<u>24</u>	<u>1179</u>
P10		<u>27</u>	<u>1235</u>	<u>45</u>	<u>90</u>	<u>27</u>	<u>1207</u>
P11		<u>30</u>	<u>1247</u>	<u>50</u>	<u>93</u>	<u>30</u>	<u>1229</u>
P12		<u>33</u>	<u>1273</u>	<u>55</u>	<u>95</u>	<u>33</u>	<u>1245</u>
P13		<u>36</u>	<u>1287</u>	<u>60</u>	<u>97</u>	<u>36</u>	<u>1257</u>
P14		<u>39</u>	<u>1297</u>			<u>39</u>	<u>1265</u>
P15		<u>42</u>	<u>1309</u>			<u>42</u>	<u>1273</u>
P16		<u>45</u>	<u>1319</u>			<u>45</u>	<u>1283</u>
P17		<u>48</u>	<u>1301</u>			<u>48</u>	<u>1287</u>
P18		<u>51</u>	<u>1317</u>			<u>51</u>	<u>1293</u>
P19		<u>54</u>	<u>1327</u>			<u>54</u>	<u>1297</u>
P20		<u>57</u>	<u>1325</u>			<u>57</u>	<u>1303</u>
		<u>60</u>	<u>1335</u>			<u>60</u>	<u>1309</u>

TKT # 1585
I





WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

No. 2351

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

Elevation 1354 K.R. Formation MISS.

Eff. Pay — Ft.

District Great Bend, KS Date 2-2-79 Customer Order No. —

COMPANY NAME Dunne & Gardner P.T. Inc.

ADDRESS Suite 250 200 W. Douglas, Wichita, KS 67202

LEASE AND WELL NO. #1C Stuhlsatz COUNTY Sumner STATE KS Sec. 20 Twp. 30S Rge. 3W

Mail Invoice To Same As Above Co. Name " Address " No. Copies Requested 5

Mail Charts To " Address " No. Copies Requested 5

Formation Test No. 3 Interval Tested from 3866 ft. to 3882 ft. Total Depth 3882 ft.

Packer Depth 3861 ft. Size 6 3/4 in. Packer Depth 3866 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) 3856 ft. Recorder Number 3474 Cap. 8000

Bottom Recorder Depth (Outside) 3859 ft. Recorder Number 3659 Cap. 4000

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

Drilling Contractor Dunne & Gardner Rig 1 Drill Collar Length — I. D. — in.

Mud Type Starch Viscosity 44 Weight Pipe Length 682 I. D. 2.8 in.

Weight 9.8 Water Loss 6.8 cc. Drill Pipe Length 3163 I. D. — in.

Chlorides 20,000 P.P.M. Test Tool Length 37 ft. in. Tool Size 4 1/2 FH in.

Jars: Make — Serial Number — Anchor Length 16 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: Very Good Throughout 1st F.P.
Strong Throughout 2nd Opening.

Recovered 2490 ft. of Gas In Pipe

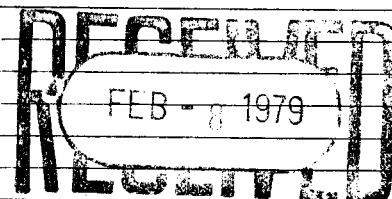
Recovered 246 ft. of O.I. & Gas Cat Mud

Recovered 290 ft. of Sl. O.I. & Gas Cat Muddy Water

Recovered — ft. of —

Recovered — ft. of —

Remarks: —



Time Set Packer(s) 5:28 A.M. P.M. Time Started Off Bottom 9:00 A.M. P.M. Maximum Temperature 110

Initial Hydrostatic Pressure — (A) 2088 P.S.I.

Initial Flow Period 30 Minutes (B) 46 P.S.I. to (C) 84 P.S.I.

Initial Closed In Period 60 Minutes (D) 1509 P.S.I.

Final Flow Period 60 Minutes (E) 130 P.S.I. to (F) 215 P.S.I.

Final Closed In Period 60 Minutes (G) 1501 P.S.I.

Final Hydrostatic Pressure — (H) 2088 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 Arden Ratcliff
Signature of Customer or his authorized representative

Western Representative Donio Worda Thank You

FIELD INVOICE

Open Hole Test \$ 440.00
Misrun \$ —
Straddle Test \$ —
Jars \$ —
Selective Zone \$ —
Safety Joint \$ —
Standby Waiting \$ 30.00
Evaluation Time \$ —
Extra Packer \$ —
Circ. Sub. \$ 25.00
Mileage \$ —
Extra Charts \$ —

TOTAL \$ 495.00
465.00

WESTERN TESTING CO., INC.

Pressure Data

Date 2-2-79 Test Ticket No. 2351
 Recorder No. 3474 Capacity 3000 Location 3856 Ft.
 Clock No. _____ Elevation 1354 X.B. Well Temperature 110 °F
 Point Pressure Time Given Time Computed
 A Initial Hydrostatic Mud 2087 P.S.I. Open Tool 5:28 P.M.
 B First Initial Flow Pressure 47 P.S.I. First Flow Pressure 30 Mins. 30 Mins.
 C First Final Flow Pressure 86 P.S.I. Initial Closed-in Pressure 60 Mins. 60 Mins.
 D Initial Closed-in Pressure 1509 P.S.I. Second Flow Pressure 60 Mins. 60 Mins.
 E Second Initial Flow Pressure 132 P.S.I. Final Closed-in Pressure 60 Mins. 60 Mins.
 F Second Final Flow Pressure 217 P.S.I.
 G Final Closed-in Pressure 1497 P.S.I.
 H Final Hydrostatic Mud 2082 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>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>20</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 0	47	0	86	0	132	0	217
P 2 5	45	3	197	5	130	3	762
P 3 10	52	6	589	10	133	6	1186
P 4 15	61	9	1359	15	139	9	1344
P 5 20	71	12	1411	20	150	12	1389
P 6 25	82	15	1436	25	156	15	1417
P 7 30	86	18	1452	30	167	18	1432
P 8 35		21	1464	35	177	21	1447
P 9 40		24	1473	40	185	24	1455
P10 45		27	1480	45	195	27	1462
P11 50		30	1488	50	205	30	1468
P12 55		33	1491	55	212	33	1474
P13 60		36	1495	60	217	36	1479
P14		39	1498	65		39	1482
P15		42	1502	70		42	1485
P16		45	1503	75		45	1488
P17		48	1506	80		48	1488
P18		51	1508	85		51	1491
P19		54	1508	90		54	1494
P20		57	1509			57	1495
		60	1509			60	1497

Company Dunne-Gardner Petroleum, Inc. Lease & Well No. Stuhlsatz "C" #1
Elevation 1354 Kelly Bushing Formation Mississippi Effective Pay -- Ft. Ticket No. 2351
Date 2/2/79 Sec. 20 Twp. 30S Range 3W County Sumner State Kansas
Test Approved by Arden Ratzlaff Western Representative Denis Wo ndra

Formation Test No. 3 Interval Tested from 3866' ft. to 3882' ft. Total Depth 3882' ft.

Packer Depth 3861 ft. Size 6 3/4 in. Packer Depth 3866 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) 3856 ft. Recorder Number 3474 Cap. 3000

Bottom Recorder Depth (Outside) 4859 ft. Recorder Number 3659 Cap. 4000

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

Drilling Contractor Dunne-Gardner Rig # 1 Drill Collar Length - I. D. - in.

Mud Type starch Viscosity 44 Weight Pipe Length 682 I. D. 2.8 in.

Weight 9.8 Water Loss 6.8 cc. Drill Pipe Length 3163 I. D. - in.

Chlorides 30,000 P.P.M. Test Tool Length 37' in. Tool Size 4 1/2 FH in.

Jars: Make -- Serial Number -- Anchor Length 16' 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: Very good throughout first flow period. Strong throughout second opening.

Recovered 2490 ft. of gas in pipe

Recovered 246 ft. of oil and gas cut mud

Recovered 290 ft. of slightly oil and gas cut muddy water

Recovered - ft. of -

Recovered - ft. of -

Remarks: -

Time Set Packer(s) 5:28 ~~A.M.~~ P.M. Time Started Off Bottom 9:00 ~~A.M.~~ P.M. Maximum Temperature 110

Initial Hydrostatic Pressure (A) 2087 P.S.I.

Initial Flow Period Minutes 30 (B) 47 P.S.I. to (C) 86 P.S.I.

Initial Closed In Period Minutes 60 (D) 1509 P.S.I.

Final Flow Period Minutes 60 (E) 132 P.S.I. to (F) 217 P.S.I.

Final Closed In Period Minutes 60 (G) 1497 P.S.I.

Final Hydrostatic Pressure (H) 2082 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 2/2/79 Test Ticket No. 2351
 Recorder No. 3474 Capacity 3000 Location 3856 Ft.
 Clock No. -- Elevation 1354 Kelly Bushing Well Temperature 110 °F

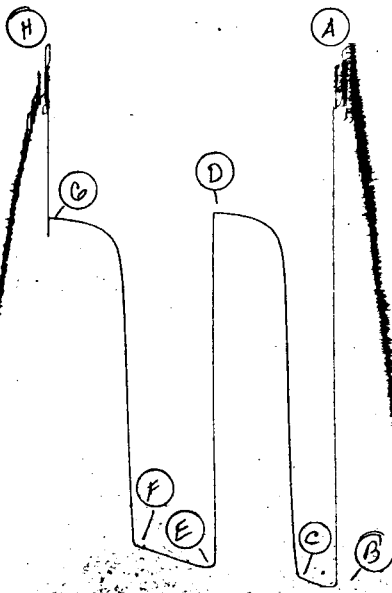
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2087 P.S.I.	Open Tool	5:28P	M
B First Initial Flow Pressure	47 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	86 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1509 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	132 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	217 P.S.I.			
G Final Closed-in Pressure	1497 P.S.I.			
H Final Hydrostatic Mud	2082 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>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>20</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>47</u>	<u>0</u>	<u>86</u>	<u>0</u>	<u>132</u>	<u>0</u>	<u>217</u>
P 2 <u>5</u>	<u>45</u>	<u>3</u>	<u>197</u>	<u>5</u>	<u>130</u>	<u>3</u>	<u>762</u>
P 3 <u>10</u>	<u>52</u>	<u>6</u>	<u>589</u>	<u>10</u>	<u>133</u>	<u>6</u>	<u>1186</u>
P 4 <u>15</u>	<u>61</u>	<u>9</u>	<u>1359</u>	<u>15</u>	<u>139</u>	<u>9</u>	<u>1344</u>
P 5 <u>20</u>	<u>71</u>	<u>12</u>	<u>1411</u>	<u>20</u>	<u>150</u>	<u>12</u>	<u>1389</u>
P 6 <u>25</u>	<u>82</u>	<u>15</u>	<u>1436</u>	<u>25</u>	<u>156</u>	<u>15</u>	<u>1417</u>
P 7 <u>30</u>	<u>86</u>	<u>18</u>	<u>1452</u>	<u>30</u>	<u>167</u>	<u>18</u>	<u>1432</u>
P 8		<u>21</u>	<u>1464</u>	<u>35</u>	<u>177</u>	<u>21</u>	<u>1447</u>
P 9		<u>24</u>	<u>1473</u>	<u>40</u>	<u>185</u>	<u>24</u>	<u>1455</u>
P10		<u>27</u>	<u>1480</u>	<u>45</u>	<u>195</u>	<u>27</u>	<u>1462</u>
P11		<u>30</u>	<u>1488</u>	<u>50</u>	<u>205</u>	<u>30</u>	<u>1468</u>
P12		<u>33</u>	<u>1491</u>	<u>55</u>	<u>212</u>	<u>33</u>	<u>1474</u>
P13		<u>36</u>	<u>1495</u>	<u>60</u>	<u>217</u>	<u>36</u>	<u>1479</u>
P14		<u>39</u>	<u>1498</u>			<u>39</u>	<u>1482</u>
P15		<u>42</u>	<u>1502</u>			<u>42</u>	<u>1485</u>
P16		<u>45</u>	<u>1503</u>			<u>45</u>	<u>1488</u>
P17		<u>48</u>	<u>1506</u>			<u>48</u>	<u>1488</u>
P18		<u>51</u>	<u>1508</u>			<u>51</u>	<u>1491</u>
P19		<u>54</u>	<u>1508</u>			<u>54</u>	<u>1494</u>
P20		<u>57</u>	<u>1509</u>			<u>57</u>	<u>1495</u>
		<u>60</u>	<u>1509</u>			<u>60</u>	<u>1497</u>

TRK # 2351
I

74





WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 1966

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

Elevation 1356 KB Formation Simpson Eff. Pay - Ft.

District Augusta Day 2-4-79 Customer Order No. -

COMPANY NAME Dunne & Gardner Petrol
ADDRESS Suite 250 200 W Douglas Wichita, KS 67202

LEASE AND WELL NO. Stuhlsatz #1 COUNTY Sumner STATE Ks Sec 20 Twp 30 Rge 3

Mail Invoice To Same Co. Name - Address - No. Copies Requested Usual

Mail Charts To Same Co. Name - Address - No. Copies Requested Usual

Formation Test No. 4 Interval Tested from 4282 ft. to 4300 ft. Total Depth 4300 ft.

Packer Depth 4282 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4277 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4291 ft. Recorder Number 1564 Cap. 3150

Bottom Recorder Depth (Outside) 4294 ft. Recorder Number 1562 Cap. 3150

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

Drilling Contractor Co Tools Drill Collar Length - I. D. - in.

Mud Type Starch Viscosity 50 Weight Pipe Length 660 I. D. 2.7 in.

Weight 10 Water Loss 10.8 cc. Drill Pipe Length 3602 I. D. 3.8 in.

Chlorides 29,000 P.P.M. Test Tool Length 38 in. Tool Size 4 1/2 in.

Jars: Make - Serial Number - Anchor Length 18 ft. Size 4 1/2 in.

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

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

Blow: air thru out test

Recovered 950 ft. of salt water

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks: -

Time Set Packer(s) 7:00 P.M. Time Started Off Bottom 10:30 P.M. Maximum Temperature 131

Initial Hydrostatic Pressure 2265 P.S.I. (A)

Initial Flow Period 30 Minutes (B) 55 P.S.I. to (C) 265 P.S.I.

Initial Closed In Period 60 Minutes (D) 1415 P.S.I.

Final Flow Period 60 Minutes (E) 300 P.S.I. to (F) 515 P.S.I.

Final Closed In Period 60 Minutes (G) 1415 P.S.I.

Final Hydrostatic Pressure 2265 P.S.I. (H)

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 Arden Ratcliff
Signature of Customer or his authorized representative

Western Representative Norman Allen

On location 4:20 PM 2-4-79
Job complete 2:10 AM 2-5-79

FIELD INVOICE

Open Hole Test \$ 460.00
Misrun \$ -
Straddle Test \$ -
Jars \$ -
Selective Zone \$ -
Safety Joint \$ -
Standby \$ -
Evaluation \$ -
Extra Packer \$ -
Circ. Sub. \$ 25.00
Mileage \$ -
Extra Charts \$ -

TOTAL

\$ 485.00

WESTERN TESTING CO., INC.

Pressure Data

Date 2-4-79 Test Ticket No. 1966

Recorder No. 1564 Capacity 3150 Location 4291 Ft.

Clock No. Elevation 1356 AB Well Temperature 131 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2298</u> P.S.I.	Open Tool	<u>7:00</u> P 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>261</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1419</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>305</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins	<u>60</u> Mins.
F Second Final Flow Pressure	<u>518</u> P.S.I.			
G Final Closed-in Pressure	<u>1419</u> P.S.I.			
H Final Hydrostatic Mud	<u>2261</u> 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>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>20</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>56</u>	<u>0</u>	<u>261</u>	<u>0</u>	<u>305</u>	<u>0</u>	<u>518</u>
P 2 <u>5</u>	<u>73</u>	<u>3</u>	<u>1401</u>	<u>5</u>	<u>322</u>	<u>3</u>	<u>1405</u>
P 3 <u>10</u>	<u>105</u>	<u>6</u>	<u>1411</u>	<u>10</u>	<u>346</u>	<u>6</u>	<u>1411</u>
P 4 <u>15</u>	<u>143</u>	<u>9</u>	<u>1414</u>	<u>15</u>	<u>371</u>	<u>9</u>	<u>1413</u>
P 5 <u>20</u>	<u>183</u>	<u>12</u>	<u>1416</u>	<u>20</u>	<u>391</u>	<u>12</u>	<u>1414</u>
P 6 <u>25</u>	<u>221</u>	<u>15</u>	<u>1416</u>	<u>25</u>	<u>410</u>	<u>15</u>	<u>1415</u>
P 7 <u>30</u>	<u>261</u>	<u>18</u>	<u>1417</u>	<u>30</u>	<u>428</u>	<u>18</u>	<u>1416</u>
P 8 <u>35</u>		<u>21</u>	<u>1417</u>	<u>35</u>	<u>444</u>	<u>21</u>	<u>1416</u>
P 9 <u>40</u>		<u>24</u>	<u>1418</u>	<u>40</u>	<u>463</u>	<u>24</u>	<u>1417</u>
P10 <u>45</u>		<u>27</u>	<u>1418</u>	<u>45</u>	<u>481</u>	<u>27</u>	<u>1417</u>
P11 <u>50</u>		<u>30</u>	<u>1419</u>	<u>50</u>	<u>497</u>	<u>30</u>	<u>1417</u>
P12 <u>55</u>		<u>33</u>		<u>55</u>	<u>508</u>	<u>33</u>	<u>1417</u>
P13 <u>60</u>		<u>36</u>		<u>60</u>	<u>518</u>	<u>36</u>	<u>1417</u>
P14		<u>39</u>		<u>65</u>		<u>39</u>	<u>1418</u>
P15		<u>42</u>		<u>70</u>		<u>42</u>	<u>1418</u>
P16		<u>45</u>	<u>1419</u>	<u>75</u>		<u>45</u>	<u>1418</u>
P17		<u>48</u>		<u>80</u>		<u>48</u>	<u>1418</u>
P18		<u>51</u>		<u>85</u>		<u>51</u>	<u>1419</u>
P19		<u>54</u>		<u>90</u>		<u>54</u>	<u>1419</u>
P20		<u>57</u>				<u>57</u>	<u>1419</u>
		<u>60</u>	<u>1419</u>			<u>60</u>	<u>1419</u>

Company Dunne-Gardner Petroleum, Inc. Lease & Well No. Stuhlsatz "C" #1
Elevation 1356 Kelly Bushing Simpson Effective Pay -- Ft. Ticket No. 1966
Date 2/4/79 Sec. 20 Twp. 30S Range 3W County Sumner State Kansas
Test Approved by Arden Ratzlaff Western Representative Norman Allen

Formation Test No. 4 Interval Tested from 4282' ft. to 4300' ft. Total Depth 4300' ft.

Packer Depth 4282 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4277 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 4291 ft. Recorder Number 1564 Cap. 3150

Bottom Recorder Depth (Outside) 4294 ft. Recorder Number 1562 Cap. 3150

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

Drilling Contractor Dunne-Gardner Petroleum, Inc. Drill Collar Length - I. D. - in.

Mud Type starch Viscosity 50 Weight Pipe Length 660 I. D. 2.7 in.

Weight 10. Water Loss 10.8 cc. Drill Pipe Length 3602 I. D. 3.8 in.

Chlorides 29,000 P.P.M. Test Tool Length 38' ft. Tool Size 4 1/2 OD in.

Jars: Make -- Serial Number -- Anchor Length 18' ft. Size 4 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: Fair throughout test.

Recovered 950 ft. of salt water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 7:00 ~~A.M.~~ P.M. Time Started Off Bottom 10:30 ~~A.M.~~ P.M. Maximum Temperature 131

Initial Hydrostatic Pressure (A) 2298 P.S.I.

Initial Flow Period Minutes 30 (B) 56 P.S.I. to (C) 261 P.S.I.

Initial Closed In Period Minutes 60 (D) 1419 P.S.I.

Final Flow Period Minutes 60 (E) 305 P.S.I. to (F) 518 P.S.I.

Final Closed In Period Minutes 60 (G) 1419 P.S.I.

Final Hydrostatic Pressure (H) 2261 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 2/4/79

Test Ticket No. 1966

Recorder No. 1564

Capacity 3150

Location 4291 Ft.

Clock No. -- Elevation 1356 Kelly Bushing

Well Temperature 131 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2298	P.S.I.	7:00P M	
B First Initial Flow Pressure	56	P.S.I.	30 Mins	30 Mins.
C First Final Flow Pressure	261	P.S.I.	60 Mins	60 Mins.
D Initial Closed-in Pressure	1419	P.S.I.	60 Mins	60 Mins.
E Second Initial Flow Pressure	305	P.S.I.	60 Mins	60 Mins.
F Second Final Flow Pressure	518	P.S.I.	60 Mins	60 Mins.
G Final Closed-in Pressure	1419	P.S.I.		
H Final Hydrostatic Mud	2261	P.S.I.		

PRESSURE BREAKDOWN

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

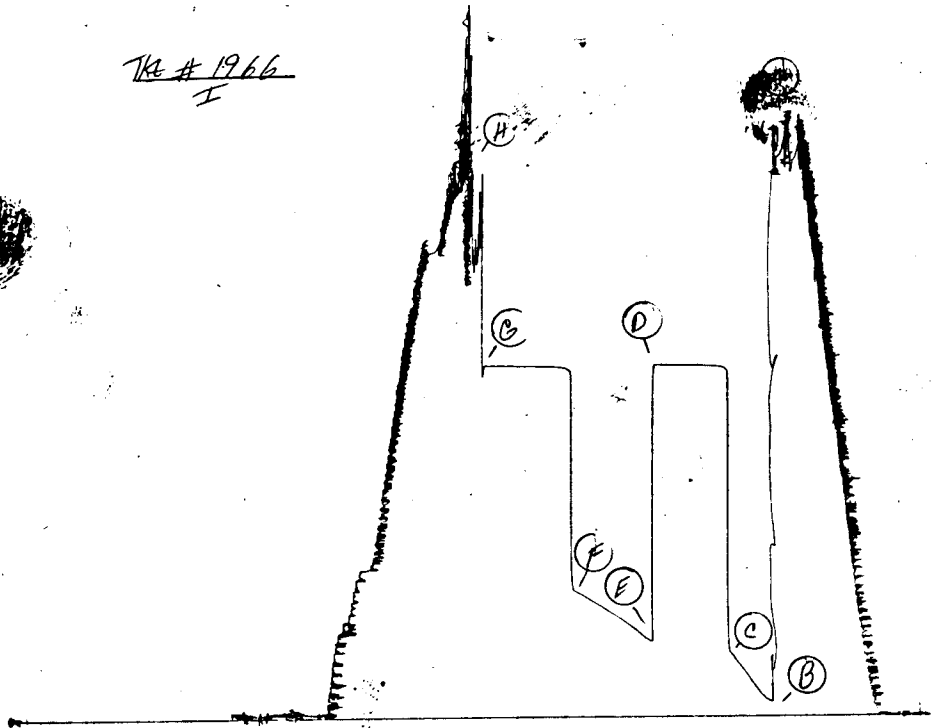
Initial Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

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

Final Shut-In
Breakdown: 20 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>56</u>	<u>0</u>	<u>261</u>	<u>0</u>	<u>305</u>	<u>0</u>	<u>518</u>
P 2 <u>5</u>	<u>73</u>	<u>3</u>	<u>1401</u>	<u>5</u>	<u>322</u>	<u>3</u>	<u>1405</u>
P 3 <u>10</u>	<u>105</u>	<u>6</u>	<u>1411</u>	<u>10</u>	<u>346</u>	<u>6</u>	<u>1411</u>
P 4 <u>15</u>	<u>143</u>	<u>9</u>	<u>1414</u>	<u>15</u>	<u>371</u>	<u>9</u>	<u>1413</u>
P 5 <u>20</u>	<u>183</u>	<u>12</u>	<u>1416</u>	<u>20</u>	<u>391</u>	<u>12</u>	<u>1414</u>
P 6 <u>25</u>	<u>221</u>	<u>15</u>	<u>1416</u>	<u>25</u>	<u>410</u>	<u>15</u>	<u>1415</u>
P 7 <u>30</u>	<u>261</u>	<u>18</u>	<u>1417</u>	<u>30</u>	<u>428</u>	<u>18</u>	<u>1416</u>
P 8		<u>21</u>	<u>1417</u>	<u>35</u>	<u>444</u>	<u>21</u>	<u>1416</u>
P 9		<u>24</u>	<u>1418</u>	<u>40</u>	<u>463</u>	<u>24</u>	<u>1417</u>
P10		<u>27</u>	<u>1418</u>	<u>45</u>	<u>481</u>	<u>27</u>	<u>1417</u>
P11		<u>30</u>	<u>1419</u>	<u>50</u>	<u>497</u>	<u>30</u>	<u>1417</u>
P12		<u>33</u>	<u>1419</u>	<u>55</u>	<u>508</u>	<u>33</u>	<u>1417</u>
P13		<u>36</u>	<u>1419</u>	<u>60</u>	<u>518</u>	<u>36</u>	<u>1417</u>
P14		<u>39</u>	<u>1419</u>			<u>39</u>	<u>1418</u>
P15		<u>42</u>	<u>1419</u>			<u>42</u>	<u>1418</u>
P16		<u>45</u>	<u>1419</u>			<u>45</u>	<u>1418</u>
P17		<u>48</u>	<u>1419</u>			<u>48</u>	<u>1418</u>
P18		<u>51</u>	<u>1419</u>			<u>51</u>	<u>1419</u>
P19		<u>54</u>	<u>1419</u>			<u>54</u>	<u>1419</u>
P20		<u>57</u>	<u>1419</u>			<u>57</u>	<u>1419</u>
WTC - 4		<u>60</u>	<u>1419</u>			<u>60</u>	<u>1419</u>

TK # 1966
I





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

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 1926

Elevation 1354 KB Formation Amplex Eff. Pay Ft.

District Augusta Date 2-6-79 Customer Order No.

COMPANY NAME Dunne - Gardner Petroleum Inc.

ADDRESS Suite 312 One Park Central - 1515 Arapahoe Denver Colorado 80202

LEASE AND WELL NO. #1 "C" Stubby COUNTY Sumner STATE Kans. Sec 20 Twp 30S Rge 3W

Mail Invoice To Dunne - Gardner - 200 W. Douglas Suite 250 Wichita Ks. 67202 No. Copies Requested 1

Co. Name Address No. Copies Requested 6

Mail Charts To Same Address No. Copies Requested 6

Formation Test No. 5 Interval Tested from 4310 ft. to 4312 ft. Total Depth 4348 ft.

Packer Depth 4310 ft. Size 6-5/8 in. Packer Depth ft. Size in.

Packer Depth 4317 ft. Size 6-5/8 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4296 ft. Recorder Number 1559 Cap. 4200

Bottom Recorder Depth (Outside) 4299 ft. Recorder Number 1558 Cap. 4200

Below Straddle Recorder Depth 4348 ft. Recorder Number 38 Cap. 4200

Drilling Contractor Cr. Tools #1 Drill Collar Length I. D. in.

Mud Type Clay Viscosity 54 Weight Pipe Length 677.36 I. D. 2.2 in.

Weight 10.2 Water Loss 11.2 cc. Drill Pipe Length 4591.14 I. D. 3.8 in.

Chlorides 36,000 P.P.M. Test Tool Length 59.50 in. Tool Size 5-1/2 in.

Jars: Make Serial Number Anchor Length 7 ft. Size 5-1/2 in.

Did Well Flow? Yes Reversed Out Yes Surface Choke Size 3 in. Bottom Choke Size 3 in.

Main Hole Size 78 in. Tool Joint Size 9-1/4 in.

Blow: Blow was very weak increasing to strong

Recovered 2400 ft. of Gas in Pipe

Recovered 60 ft. of gas cut mud Depth shown of oil only mud

Recovered 180 ft. of muddy water

Recovered ft. of

Recovered 240 ft. of total fluid

Remarks:

RECEIVED
FEB - 7 1979

Time Set Packer(s) 1:50 AM Time Started Off Bottom 5:20 AM Maximum Temperature 127

Initial Hydrostatic Pressure (A) 2251 P.S.I.

Initial Flow Period Minutes (B) 20 P.S.I. to (C) 31 P.S.I.

Initial Closed In Period Minutes (D) 1420 P.S.I.

Final Flow Period Minutes (E) 83 P.S.I. to (F) 104 P.S.I.

Final Closed In Period Minutes (G) 1407 P.S.I.

Final Hydrostatic Pressure (H) 2254 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 Arthur R. [Signature]
Signature of Customer or his authorized representative

Western Representative Tim Wilson

FIELD INVOICE

Open
Open Hole Test \$ 460.00
Misrun \$
Straddle Test \$ 250.00
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$ 250.00
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$ 200.00
Extra Charts \$

TOTAL \$ 710.00

WESTERN TESTING CO., INC.

Pressure Data

Date 2-6-79 Test Ticket No. 1926
 Recorder No. 1559 Capacity 4200 Location 4296 Ft.
 Clock No. Elevation 1354 KB Well Temperature 127 °F
 Point Pressure Time Given Time Computed
 A Initial Hydrostatic Mud 2302 P.S.I. Open Tool 1:50 A M
 B First Initial Flow Pressure 19 P.S.I. First Flow Pressure 30 Mins. 30 Mins.
 C First Final Flow Pressure 19 P.S.I. Initial Closed-in Pressure 60 Mins. 60 Mins.
 D Initial Closed-in Pressure 1401 P.S.I. Second Flow Pressure 60 Mins. 60 Mins.
 E Second Initial Flow Pressure 79 P.S.I. Final Closed-in Pressure 60 Mins. 60 Mins.
 F Second Final Flow Pressure 111 P.S.I.
 G Final Closed-in Pressure 1403 P.S.I.
 H Final Hydrostatic Mud 2276 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>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>20</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 0	19	0	19	0	79	0	111
P 2 5	4	3	29	5	69	3	239
P 3 10	2	6	297	10	65	6	1050
P 4 15	4	9	1148	15	65	9	1247
P 5 20	8	12	1345	20	69	12	1368
P 6 25	10	15	1365	25	70	15	1376
P 7 30	19	18	1372	30	73	18	1385
P 8 35		21	1382	35	80	21	1387
P 9 40		24	1385	40	87	24	1391
P10 45		27	1389	45	94	27	1395
P11 50		30	1391	50	99	30	1397
P12 55		33	1393	55	104	33	1399
P13 60		36	1395	60	111	36	1400
P14		39	1396 1296	65		39	1401
P15		42	1397	70		42	1402
P16		45	1399	75		45	1403
P17		48	1399	80		48	
P18		51	1400	85		51	
P19		54	1401	90		54	
P20		57	1401			57	
		60	1401			60	1403

Company Dunne-Gardner Petroleum, Inc. Lease & Well No. Stuhlsatz "C" #1
Elevation 1354 Kelly Bushing Formation Simpson Effective Pay -- Ft. Ticket No. 1926
Date 2/6/79 Sec. 20 Twp. 30S Range 3W County Sumner State Kansas
Test Approved by Arden Ratzlaff Western Representative Tim Wilson
Formation Test No. 5 Interval Tested from 4310 ft. to 4312 ft. Total Depth 4348' ft.
Packer Depth 4310 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 4317 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set --
Top Recorder Depth (Inside) 4296 ft. Recorder Number 1559 Cap. 4200
Bottom Recorder Depth (Outside) 4299 ft. Recorder Number 1558 Cap. 4200
Below Straddle Recorder Depth 4348 ft. Recorder Number 38 Cap. 4200
Drilling Contractor Dunne-Gardner #1 Drill Collar Length -- I. D. -- in.
Mud Type starch Viscosity 54 Weight Pipe Length 697.36 I. D. 2.7 in.
Weight 10.2 Water Loss 11.2 cc. Drill Pipe Length 4591.14 I. D. 3.8 in.
Chlorides 36,000 P.P.M. Test Tool Length 59.50 in. Tool Size 5 1/2 in.
Jars: Make -- Serial Number -- Anchor Length 7 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 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Blow was very weak increasing to strong.

Recovered <u>2400</u> ft. of	gas in pipe
Recovered <u>60</u> ft. of	gas cut drilling mud (slight show of oil)
Recovered <u>180</u> ft. of	muddy water
Recovered <u>240</u> ft. of	Total fluid.
Recovered _____ ft. of	

Remarks: _____

Time Set Packer(s) 1:50 A.M. Time Started Off Bottom 5:20 A.M. Maximum Temperature 127
Initial Hydrostatic Pressure (A) 2302 P.S.I.
Initial Flow Period Minutes 30 (B) 19 P.S.I. to (C) 19 P.S.I.
Initial Closed In Period Minutes 60 (D) 1401 P.S.I.
Final Flow Period Minutes 60 (E) 79 P.S.I. to (F) 111 P.S.I.
Final Closed In Period Minutes 60 (G) 1403 P.S.I.
Final Hydrostatic Pressure (H) 2276 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

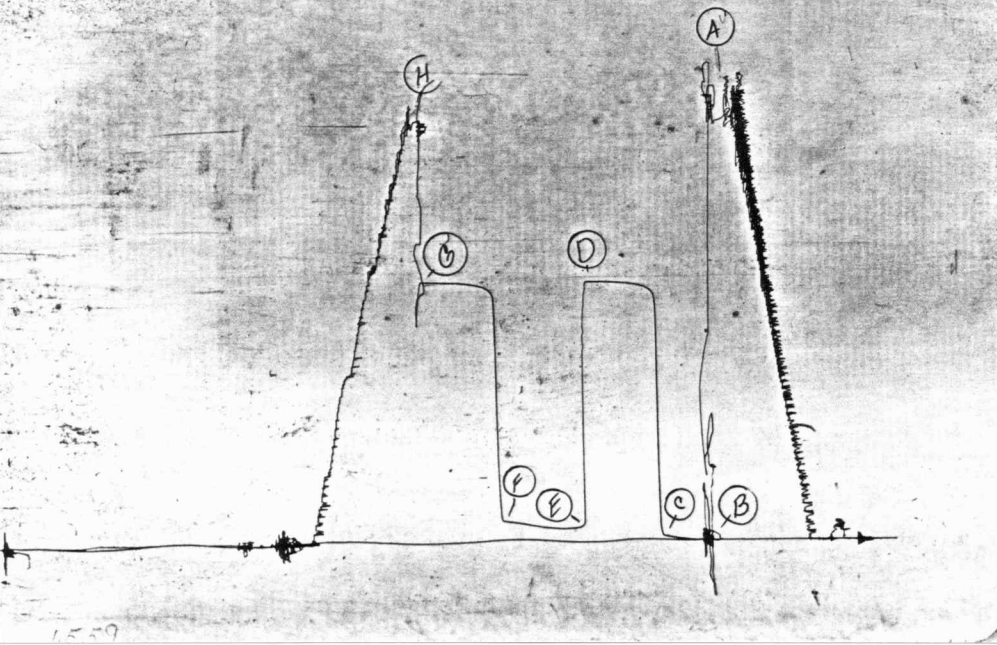
Date 2/6/79 Recorder No. 1559 Capacity 4200 Test Ticket No. 1926
 Location 4296 Ft. 127 °F
 Clock No. -- Elevation 1354 Kelly Bushing Well Temperature 127 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	2302 P.S.I.	7:50A M	
B First Initial Flow Pressure	19 P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	19 P.S.I.	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1401 P.S.I.	60 Mins.	60 Mins.
E Second Initial Flow Pressure	79 P.S.I.	60 Mins.	60 Mins.
F Second Final Flow Pressure	111 P.S.I.		
G Final Closed-in Pressure	1403 P.S.I.		
H Final Hydrostatic Mud	2276 P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</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>19</u>	<u>0</u>	<u>19</u>	<u>0</u>	<u>79</u>	<u>0</u>	<u>111</u>
P 2 <u>5</u>	<u>4</u>	<u>3</u>	<u>29</u>	<u>5</u>	<u>69</u>	<u>3</u>	<u>339</u>
P 3 <u>10</u>	<u>2</u>	<u>6</u>	<u>297</u>	<u>10</u>	<u>65</u>	<u>6</u>	<u>1050</u>
P 4 <u>15</u>	<u>4</u>	<u>9</u>	<u>1148</u>	<u>15</u>	<u>65</u>	<u>9</u>	<u>1347</u>
P 5 <u>20</u>	<u>8</u>	<u>12</u>	<u>1345</u>	<u>20</u>	<u>69</u>	<u>12</u>	<u>1368</u>
P 6 <u>25</u>	<u>10</u>	<u>15</u>	<u>1365</u>	<u>25</u>	<u>70</u>	<u>15</u>	<u>1376</u>
P 7 <u>30</u>	<u>19</u>	<u>18</u>	<u>1372</u>	<u>30</u>	<u>73</u>	<u>18</u>	<u>1385</u>
P 8		<u>21</u>	<u>1382</u>	<u>35</u>	<u>80</u>	<u>21</u>	<u>1387</u>
P 9		<u>24</u>	<u>1385</u>	<u>40</u>	<u>87</u>	<u>24</u>	<u>1391</u>
P10		<u>27</u>	<u>1389</u>	<u>45</u>	<u>94</u>	<u>27</u>	<u>1395</u>
P11		<u>30</u>	<u>1391</u>	<u>50</u>	<u>99</u>	<u>30</u>	<u>1397</u>
P12		<u>33</u>	<u>1393</u>	<u>55</u>	<u>104</u>	<u>33</u>	<u>1399</u>
P13		<u>36</u>	<u>1395</u>	<u>60</u>	<u>111</u>	<u>36</u>	<u>1400</u>
P14		<u>39</u>	<u>1396</u>			<u>39</u>	<u>1401</u>
P15		<u>42</u>	<u>1397</u>			<u>42</u>	<u>1402</u>
P16		<u>45</u>	<u>1399</u>			<u>45</u>	<u>1403</u>
P17		<u>48</u>	<u>1399</u>			<u>48</u>	<u>1403</u>
P18		<u>51</u>	<u>1400</u>			<u>51</u>	<u>1403</u>
P19		<u>54</u>	<u>1401</u>			<u>54</u>	<u>1403</u>
P20		<u>57</u>	<u>1401</u>			<u>57</u>	<u>1403</u>
		<u>60</u>	<u>1401</u>			<u>60</u>	<u>1403</u>

TKL # 1926
I



TH # 1926
Kahn Straddle

