

Company Leben Drilling Company Lease & Well No. #2 Swafford
 Elevation 2087 Kelly Bushing Cherokee Effective Pay -- Ft. Ticket No. 16148
 Date 10/9/82 Sec. 5 Twp. 28S Range 15W County Pratt State Kansas
 Test Approved by Kenneth Spear Western Representative Mike Rogers

Formation Test No. 1 Interval Tested from 4540 ft. to 4575 ft. Total Depth 4575 ft.
 Packer Depth 4535 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 4540 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4543 ft. Recorder Number 1566 Cap. 4300
 Bottom Recorder Depth (Outside) 4547 ft. Recorder Number 3086 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Leben Drlg. Rig #11 Drill Collar Length 158 I. D. 2.2 in.
 Mud Type starch Viscosity 55 Weight Pipe Length - I. D. - in.
 Weight 9.5 Water Loss 12.4 cc. Drill Pipe Length 4352 I. D. 3.2 in.
 Chlorides 22,000 P.P.M. Test Tool Length 30 ft. Tool Size 5 1/2 in.
 Jars: Make WTC Serial Number 3660 Anchor Length 35 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 7/8 in. Tool Joint Size 4" in.

Blow: Weak one half inch blow depleting on initial flow period. Dead - flushed tool on final 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)	<u>1:45</u>	<u>A.M.</u>	Time Started Off Bottom	<u>3:45</u>	<u>A.M.</u>	Maximum Temperature	<u>121° F</u>
Initial Hydrostatic Pressure			(A)	<u>2326</u>		P.S.I.	
Initial Flow Period			Minutes	<u>30</u>	(B)	<u>55</u>	P.S.I. to (C) <u>55</u> P.S.I.
Initial Closed In Period			Minutes	<u>30</u>	(D)	<u>59</u>	P.S.I.
Final Flow Period			Minutes	<u>30</u>	(E)	<u>56</u>	P.S.I. to (F) <u>75</u> P.S.I.
Final Closed In Period			Minutes	<u>30</u>	(G)	<u>81</u>	P.S.I.
Final Hydrostatic Pressure			(H)	<u>2299</u>		P.S.I.	

WESTERN TESTING CO., INC.
Pressure Data

Date 10/9/82 Test Ticket No. 16148
 Recorder No. 1566 Capacity 4300 Location 4543 Ft.
 Clock No. --- Elevation 2087 Kelly Bushing Well Temperature 121 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2326</u> P.S.I.	Open Tool	<u>1:45P</u>	
B First Initial Flow Pressure	<u>55</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>55</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>59</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>56</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>75</u> P.S.I.			
G Final Closed-in Pressure	<u>81</u> P.S.I.			
H Final Hydrostatic Mud	<u>2299</u> P.S.I.			

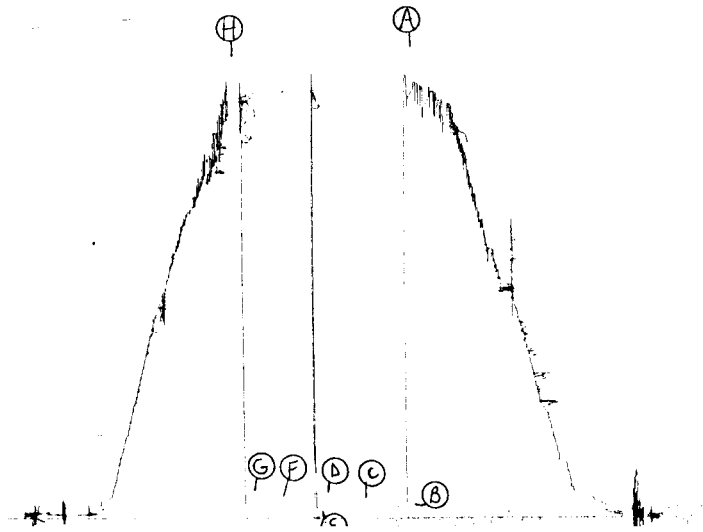
PRESSURE BREAKDOWN

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>55</u>	<u>0</u>	<u>55</u>	<u>0</u>	<u>56</u>	<u>0</u>	<u>75</u>
P 2 <u>5</u>	<u>55</u>	<u>3</u>	<u>55</u>	<u>5</u>	<u>56</u>	<u>3</u>	<u>75</u>
P 3 <u>10</u>	<u>55</u>	<u>6</u>	<u>55</u>	<u>10</u>	<u>93</u>	<u>6</u>	<u>75</u>
P 4 <u>15</u>	<u>55</u>	<u>9</u>	<u>55</u>	<u>15</u>	<u>83</u>	<u>9</u>	<u>75</u>
P 5 <u>20</u>	<u>55</u>	<u>12</u>	<u>55</u>	<u>20</u>	<u>78</u>	<u>12</u>	<u>76</u>
P 6 <u>25</u>	<u>55</u>	<u>15</u>	<u>55</u>	<u>25</u>	<u>77</u>	<u>15</u>	<u>77</u>
P 7 <u>30</u>	<u>55</u>	<u>18</u>	<u>55</u>	<u>30</u>	<u>75</u>	<u>18</u>	<u>78</u>
P 8 _____		<u>21</u>	<u>56</u>			<u>21</u>	<u>79</u>
P 9 _____		<u>24</u>	<u>57</u>			<u>24</u>	<u>80</u>
P10 _____		<u>27</u>	<u>58</u>			<u>27</u>	<u>81</u>
P11 _____		<u>30</u>	<u>59</u>			<u>30</u>	<u>81</u>
P12 _____							
P13 _____							
P14 _____							
P15 _____							
P16 _____							
P17 _____							
P18 _____							
P19 _____							
P20 _____							

Flushed tool

TKT # 16148

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WESTERN TESTING CO., INC.
FORMATION TESTING

OK

TICKET

No. 16148

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

Elevation 2087 KB Formation Cherokee Eff. Pay _____ Ft.

District Pratt Date 10-9-82 Customer Order No. _____

COMPANY NAME Leben dely Company

ADDRESS 105 S. Bldg Bldg Plaza Bldg Suite 640 Wichita Ks 67202

LEASE AND WELL NO. Swafford #2 COUNTY Pratt STATE Ks. Sec. 5 Twp. 28 Rge. 15W

Mail Invoice To #2 SWAFFORD Co. Name _____ Address _____ No. Copies Requested _____

Mail Charts To _____ Address _____ No. Copies Requested 10

Formation Test No. 1 Interval Tested From 4540 ft. to 4575 ft. Total Depth 4575 ft.

Packer Depth 4535 ft. Size 6 5/8 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 4540 ft. Size 6 5/8 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4543 ft. Recorder Number 1566 Cap. 4300

Bottom Recorder Depth (Outside) 4547 ft. Recorder Number 3086 Cap. 4500

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

Drilling Contractor Rig 11 Drill Collar Length 158" I. D. 2 1/2 in.

Mud Type Starch Viscosity 55 Weight Pipe Length _____ I. D. _____ in.

Weight 9.5 Water Loss 12.4 cc. Drill Pipe Length 4352 I. D. 3.2 in.

Chlorides 22,000 P.P.M. Test Tool Length 30' ft. Tool Size 5 1/2 in.

Jars: Make _____ WTC Serial Number 3660 Anchor Length 35' 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 3/8 in. Tool Joint Size 4" in.

Blow: WK separating I.F.P. dead flushed tool F.F.P.

Recovered 30' ft. of dely mud

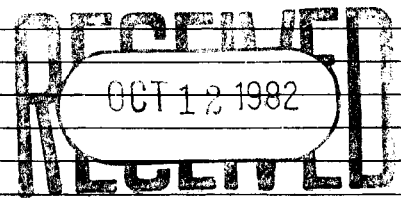
Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____



Time On Location 2:00 (8:30) A.M. Time Pick Up Tool 11:00 P.M. Time Off Location 7:15 A.M.

Time Set Packer(s) 1:45 P.M. Time Started Off Bottom 3:45 P.M. Maximum Temperature 128°

Initial Hydrostatic Pressure (A) 2460 P.S.I.

Initial Flow Period (B) 30 Minutes (C) 75 P.S.I. to (C) 54 P.S.I.

Initial Closed In Period (D) 30 Minutes (D) 64 P.S.I.

Final Flow Period (E) 30 Minutes (E) 54 P.S.I. to (F) 75 P.S.I.

Final Closed In Period (G) 30 Minutes (G) 75 P.S.I.

Final Hydrostatic Pressure (H) 2428 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: Kenneth D Spear
Signature of Customer or his authorized representative

Western Representative: Mike Rogers Thank You!

FIELD INVOICE

Open Hole Test	\$ <u>675.00</u>
Misrun	\$ _____
Straddle Test	\$ _____
Jars	\$ <u>300.00</u>
Selective Zone	\$ _____
Safety Joint	\$ <u>65.00</u>
Standby	\$ _____
Evaluation	\$ _____
Extra Packer	\$ _____
Circ. Sub.	\$ _____
Mileage <u>15</u>	\$ _____
Fluid Sampler	\$ _____
5 Extra Chgs <u>2.50</u>	\$ <u>12.50</u>
Insurance	\$ _____
Telecopier	\$ _____
TOTAL	\$ <u>1052.50</u>

WESTERN TESTING CO., INC.

Pressure Data

10-9
 Order No. 1566 Capacity 4300
 Location 4543 Ft.
 Elevation 2087 KB Well Temperature 221 °F

Test Ticket No. 16148
 Location 4543 Ft.
 Well Temperature 221 °F

Point	Pressure	Open Tool	Time Given	Time Computed
Initial Hydrostatic Mud	2326 P.S.I.		1:45 P	
First Initial Flow Pressure	55 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
First Final Flow Pressure	55 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	59 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
Second Initial Flow Pressure	56 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
Second Final Flow Pressure	75 P.S.I.			
Final Closed-in Pressure	81 P.S.I.			
Final Hydrostatic Mud	2299 P.S.I.			

PRESSURE BREAKDOWN

Point ins.	First Flow Pressure Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.		Initial Shut-In Breakdown: 10 Inc. of 3 mins. and a final inc. of 0 Min.		Second Flow Pressure Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.		Final Shut-In Breakdown: 10 Inc. of 3 mins. and a final inc. of 0 Min.	
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes
0	55	0	55	0	56	0	75	
2	}	3	}	5	56	3	}	
3		6		10	Flushed 93 Tool	6		
4		9		15	83	9		75
5		12		20	78	12		76
6		15		25	77	15		77
7	55	18	55	30	75	18	78	
8		21	56	35		21	79	
9		24	57	40		24	80	
10		27	58	45		27	81	
1		30	59	50		30	81	
2		33		55		33		
3		36		60		36		
4		39		65		39		
5		42		70		42		
6		45		75		45		
7		48		80		48		
8		51		85		51		
9		54		90		54		
10		57				57		
		60				60		

Company Leben Drilling Company Lease & Well No. #2 Swafford
 Elevation 2087 Kelly Bushing Formation Mississippi Effective Pay -- Ft. Ticket No. 16149
 Date 10/10/82 Sec. 5 Twp. 28S Range 15W County Pratt State Kansas
 Test Approved by Kenneth Spear Western Representative Mike Rogers

Formation Test No. 2 Interval Tested from 4562 ft. to 4604 ft. Total Depth 4604 ft.
 Packer Depth 4557 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 4562 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4565 ft. Recorder Number 1566 Cap 4300
 Bottom Recorder Depth (Outside) 4569 ft. Recorder Number 3086 Cap 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap -
 Drilling Contractor Leben Drlg. Rig #11 Drill Collar Length 158 I. D. 2.2 in.
 Mud Type starch Viscosity 42 Weight Pipe Length - I. D. - in.
 Weight 9.5 Water Loss 14.6 cc. Drill Pipe Length 4374 I. D. 3.2 in.
 Chlorides 32,000 P.P.M. Test Tool Length 30 ft. Tool Size 5 1/2 in.
 Jars: Make WTC Serial Number 3660 Anchor Length 42 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 7/8 in. Tool Joint Size 4 in.

Blow: Weak one half inch blow on initial flow period. Good five to six inch blow throughout final flow period.

Recovered 65 ft. of drilling mud
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: _____

Time Set Packer(s)	<u>8:00</u>	<u>A.M.</u>	Time Started Off Bottom	<u>12:30</u>	<u>A.M.</u>	Maximum Temperature	<u>121° F</u>
		<u>P.M.</u>			<u>P.M.</u>		
Initial Hydrostatic Pressure			(A)	<u>2356</u>		P.S.I.	
Initial Flow Period		Minutes	<u>30</u>	(B)	<u>62</u>	P.S.I. to (C)	<u>62</u> P.S.I.
Initial Closed In Period		Minutes	<u>60</u>	(D)	<u>133</u>	P.S.I.	
Final Flow Period		Minutes	<u>60</u>	(E)	<u>76</u>	P.S.I. to (F)	<u>76</u> P.S.I.
Final Closed In Period		Minutes	<u>117</u>	(G)	<u>237</u>	P.S.I.	
Final Hydrostatic Pressure			(H)	<u>2304</u>		P.S.I.	

WESTERN TESTING CO., INC.
Pressure Data

Date 10/10/82 Test Ticket No. 16149
 Recorder No. 1566 Capacity 4300 Location 4565 Ft.
 Clock No. --- Elevation 2087 Kelly Bushing Well Temperature 121 °F

Point	Pressure	P.S.I.	Open Tool	Time Given	Time Computed
				8:00A	M
A Initial Hydrostatic Mud	2356	P.S.I.	Open Tool	30	30 Mins.
B First Initial Flow Pressure	62	P.S.I.	First Flow Pressure	60	60 Mins.
C First Final Flow Pressure	62	P.S.I.	Initial Closed-in Pressure	60	60 Mins.
D Initial Closed-in Pressure	133	P.S.I.	Second Flow Pressure	120	117 Mins.
E Second Initial Flow Pressure	76	P.S.I.	Final Closed-in Pressure		
F Second Final Flow Pressure	76	P.S.I.			
G Final Closed-in Pressure	237	P.S.I.			
H Final Hydrostatic Mud	2304	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: 39 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	62	0	62	0	76	0	76
P 2 5	62	3	64	5	76	3	78
P 3 10	62	6	66	10	76	6	90
P 4 15	62	9	69	15	76	9	83
P 5 20	62	12	72	20	76	12	87
P 6 25	62	15	76	25	76	15	91
P 7 30	62	18	80	30	76	18	95
P 8		21	84	35	76	21	99
P 9		24	88	40	76	24	103
P10		27	92	45	76	27	107
P11		30	97	50	76	30	110
P12		33	101	55	76	33	113
P13		36	105	60	76	36	116
P14		39	109			39	119
P15		42	113			42	122
P16		45	117			45	125
P17		48	121			48	129
P18		51	124			51	133
P19		54	127			54	137
P20		57	130			57	142
		60	133			60	147

WESTERN TESTING CO., INC.

Pressure Data

Date 10/10/82 Test Ticket No. 16149
 Recorder No. 1566 Capacity 4300 Location 4565 Ft.
 Clock No. --- Elevation 2087 Kelly Bushing Well Temperature 121 °F

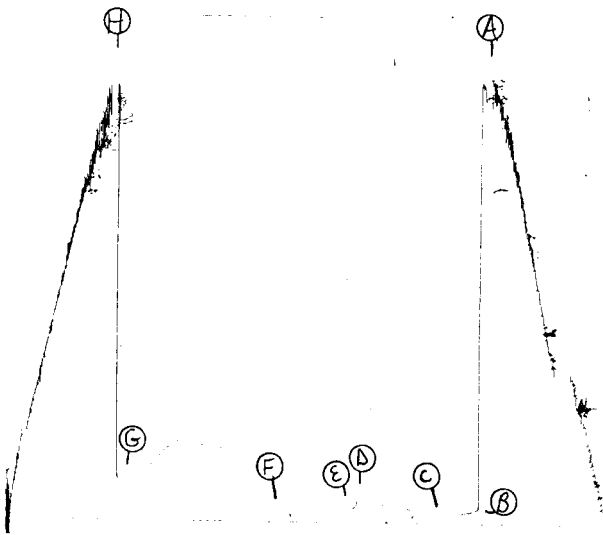
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2356</u>	P.S.I.	<u>8:00A</u>	<u>M</u>
B First Initial Flow Pressure	<u>62</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
C First Final Flow Pressure	<u>62</u>	P.S.I.	<u>60</u>	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>133</u>	P.S.I.	<u>60</u>	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>76</u>	P.S.I.	<u>120</u>	<u>117</u> Mins.
F Second Final Flow Pressure	<u>76</u>	P.S.I.		
G Final Closed-in Pressure	<u>237</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2304</u>	P.S.I.		

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In	
	Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>39</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1				63	152
P 2				66	156
P 3				69	160
P 4				72	164
P 5				75	168
P 6				78	174
P 7				81	178
P 8				84	184
P 9				87	189
P10				90	193
P11				93	198
P12				96	203
P13				99	207
P14				102	213
P15				105	218
P16				108	222
P17				111	228
P18				114	233
P19				117	237
P20					

TKT # 16149

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

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

No 16149

OK

Elevation 2087 KB Formation Miss Eff. Pay _____ Ft.

District Pratt Date 10-10-82 Customer Order No. _____

COMPANY NAME Loben Drilling Co

ADDRESS 105 S. Boling Boling Plaza Bldg Suite 440 Wichita Ks 67202

LEASE AND WELL NO. #2 Swafford COUNTY Pratt STATE Ks. Sec. 5 Twp. 28 Rge. 15W

Mail Invoice To #2 SWAFFORD Co. Name _____ Address _____ No. Copies Requested _____

Mail Charts To _____ Co. Name _____ Address _____ No. Copies Requested 10

Formation Test No. 2 Interval Tested From 4562 ft. to 4604 ft. Total Depth 4604 ft.

Packer Depth 4557 ft. Size 6 5/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 4562 ft. Size 6 5/8 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4565 ft. Recorder Number 1566 Cap. 4300

Bottom Recorder Depth (Outside) 4569 ft. Recorder Number 3086 Cap. 4500

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

Drilling Contractor Rig 11 Drill Collar Length 158' I. D. 2.0 in.

Mud Type Starch Viscosity 42 Weight Pipe Length _____ I. D. _____ in.

Weight 9.5 Water Loss 14.6 cc. Drill Pipe Length 4374' I. D. 3.2 in.

Chlorides 32,000 P.P.M. Test Tool Length 30' ft. Tool Size 5 1/2 in.

Jars: Make WTC Serial Number 3660 Anchor Length 42' 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 7/8 in. Tool Joint Size 4" in.

Blow: UK 1/2 inch T.F.P. Good 5-6 inch Throughout F.F.P.

Recovered 65' ft. of Drilling mud

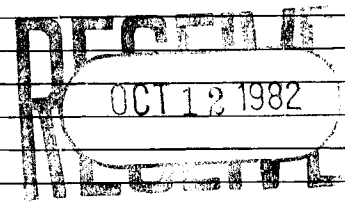
Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____



Time On Location 4:30 ^{A.M.}/_{P.M.} Time Pick Up Tool 6:00 ^{A.M.}/_{P.M.} Time Off Location _____ ^{A.M.}/_{P.M.}

Time Set Packer(s) 8:00 ^{A.M.}/_{P.M.} Time Started Off Bottom 12:30 ^{A.M.}/_{P.M.} Maximum Temperature 121°

Initial Hydrostatic Pressure _____ (A) 2449 P.S.I.

Initial Flow Period _____ Minutes 30 (B) 86 P.S.I. to (C) 75 P.S.I.

Initial Closed In Period _____ Minutes 60 (D) 129 P.S.I.

Final Flow Period _____ Minutes 60 (E) 86 P.S.I. to (F) 86 P.S.I.

Final Closed In Period _____ Minutes 120 (G) 226 P.S.I.

Final Hydrostatic Pressure _____ (H) 2428 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 Kenneth Spear
Signature of Customer or his authorized representative

Western Representative Mike Rogers Thank You!

FIELD INVOICE

Open Hole Test	\$ <u>675.00</u>
Misrun	\$ _____
Straddle Test	\$ _____
Jars	\$ <u>300.00</u>
Selective Zone	\$ _____
Safety Joint	\$ <u>65.00</u>
Standby	\$ _____
Evaluation	\$ _____
Extra Packer	\$ _____
Circ. Sub.	\$ _____
Mileage	\$ _____
Fluid Sampler	\$ _____
5 Extra Ch <u>2.50</u>	\$ <u>12.50</u>
Insurance	\$ _____
Telecopier	\$ _____
TOTAL	\$ <u>1052.50</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 10-10 Test Ticket No. 16149
 Recorder No. 1566 Capacity 4300 Location 4565 Ft.
 Clock No. ----- Elevation 2087 KB Well Temperature 121 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2304</u> P.S.I.	<u>8:00 A</u> M	
B First Initial Flow Pressure	<u>62</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>62</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>133</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>76</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>76</u> P.S.I.	<u>120</u> Mins.	<u>117</u> Mins.
G Final Closed-in Pressure	<u>237</u> P.S.I.		
H Final Hydrostatic Mud	<u>2304</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: 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: 39 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	<u>62</u>	0	<u>62</u>	0	<u>76</u>	0	<u>76</u>
P 2 5		3	<u>64</u>	5		3	<u>78</u>
P 3 10		6	<u>66</u>	10		6	<u>80</u>
P 4 15		9	<u>69</u>	15		9	<u>83</u>
P 5 20		12	<u>72</u>	20		12	<u>87</u>
P 6 25		15	<u>76</u>	25		15	<u>91</u>
P 7 30	<u>62</u>	18	<u>80</u>	30		18	<u>95</u>
P 8 35		21	<u>84</u>	35		21	<u>99</u>
P 9 40		24	<u>88</u>	40		24	<u>103</u>
P10 45		27	<u>92</u>	45		27	<u>107</u>
P11 50		30	<u>97</u>	50		30	<u>110</u>
P12 55		33	<u>101</u>	55		33	<u>113</u>
P13 60		36	<u>105</u>	60	<u>76</u>	36	<u>116</u>
P14		39	<u>109</u>	65		39	<u>119</u>
P15		42	<u>113</u>	70		42	<u>122</u>
P16		45	<u>117</u>	75		45	<u>125</u>
P17		48	<u>121</u>	80		48	<u>129</u>
P18		51	<u>124</u>	85		51	<u>133</u>
P19		54	<u>127</u>	90		54	<u>137</u>
P20		57	<u>130</u>			57	<u>142</u>
		60	<u>133</u>			60	<u>147</u>

WESTERN TESTING CO., INC.

Pressure Data

Test Ticket No. 16149

Date _____ Recorder No. _____ Capacity _____ Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud _____	P.S.I.	_____	M	_____
B First Initial Flow Pressure _____	P.S.I.	First Flow Pressure _____	Mins.	Mins.
C First Final Flow Pressure _____	P.S.I.	Initial Closed-in Pressure _____	Mins.	Mins.
D Initial Closed-in Pressure _____	P.S.I.	Second Flow Pressure _____	Mins.	Mins.
E Second Initial Flow Pressure _____	P.S.I.	Final Closed-in Pressure _____	Mins.	Mins.
F Second Final Flow Pressure _____	P.S.I.	_____	_____	_____
G Final Closed-in Pressure _____	P.S.I.	_____	_____	_____
H Final Hydrostatic Mud _____	P.S.I.	_____	_____	_____

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.
	Press.	Point Minutes	Press.	Point Minutes
P 1 _____	_____	63	_____	63
P 2 _____	_____	66	_____	66
P 3 _____	_____	69	_____	69
P 4 _____	_____	72	_____	72
P 5 _____	_____	75	_____	75
P 6 _____	_____	78	_____	78
P 7 _____	_____	81	_____	81
P 8 _____	_____	84	_____	84
P 9 _____	_____	87	_____	87
P10 _____	_____	90	_____	90
P11 _____	_____	93	_____	93
P12 _____	_____	96	_____	96
P13 _____	_____	99	_____	99
P14 _____	_____	102	_____	102
P15 _____	_____	105	_____	105
P16 _____	_____	108	_____	108
P17 _____	_____	111	_____	111
P18 _____	_____	114	_____	114
P19 _____	_____	117	_____	117
P20 _____	_____	120	_____	117

Company Leben Drilling Company Lease & Well No. #2 Swafford
 Elevation 2087 Kelly Bushing Mississippi Effective Pay -- Ft. Ticket No. 16150
 Date 10/11/82 Sec. 5 Twp. 28S Range 15W County Pratt State Kansas
 Test Approved by Kenneth Spear Western Representative Mike Rogers

Formation Test No. 3 Interval Tested from 4600 ft. to 4637 ft. Total Depth 4637 ft.
 Packer Depth 4595 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 4600 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4603 ft. Recorder Number 1566 Cap. 4300
 Bottom Recorder Depth (Outside) 4607 ft. Recorder Number 3086 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Leben Drlg. Rig #11 Drill Collar Length 158 I. D. 2.2 in.
 Mud Type starch Viscosity 42 Weight Pipe Length - I. D. - in.
 Weight 9.5 Water Loss 14.6 cc. Drill Pipe Length 4412 I. D. 3.2 in.
 Chlorides 32,000 P.P.M. Test Tool Length 30 ft. Tool Size 5 1/2 in.
 Jars: Make WTC Serial Number 3660 Anchor Length 37 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 7/8 in. Tool Joint Size 4" in.

Blow: Three inch blow depleting to one fourth inch blow on initial flow period.
Weak one fourth inch blow on final flow period.

Recovered 70 ft. of drilling mud with a very slight stain of oil
 Recovered 120 ft. of watery drilling mud with a very few oil specks (slightly gas cut
with 60% mud and 40% water with
 Recovered 38,000 ppm chlorides.
 Recovered ft. of ft.

Remarks: _____

Time Set Packer(s)	<u>3:30</u>	<u>A.M.</u> <u>P.M.</u>	Time Started Off Bottom	<u>6:30</u>	<u>A.M.</u> <u>P.M.</u>	Maximum Temperature	<u>122°F</u>
Initial Hydrostatic Pressure	(A)	<u>2400</u>	P.S.I.				
Initial Flow Period	Minutes	<u>30</u>	(B)	<u>69</u>	P.S.I. to (C)	<u>89</u>	P.S.I.
Initial Closed In Period	Minutes	<u>60</u>	(D)	<u>1339</u>	P.S.I.		
Final Flow Period	Minutes	<u>30</u>	(E)	<u>125</u>	P.S.I. to (F)	<u>126</u>	P.S.I.
Final Closed In Period	Minutes	<u>66</u>	(G)	<u>1227</u>	P.S.I.		
Final Hydrostatic Pressure	(H)	<u>2365</u>	P.S.I.				

WESTERN TESTING CO., INC.

Pressure Data

Date 10/11/82 Test Ticket No. 16150
 Recorder No. 1566 Capacity 4300 Location 4603 Ft.
 Clock No. --- Elevation 2087 KellyBushing Well Temperature 122 °F

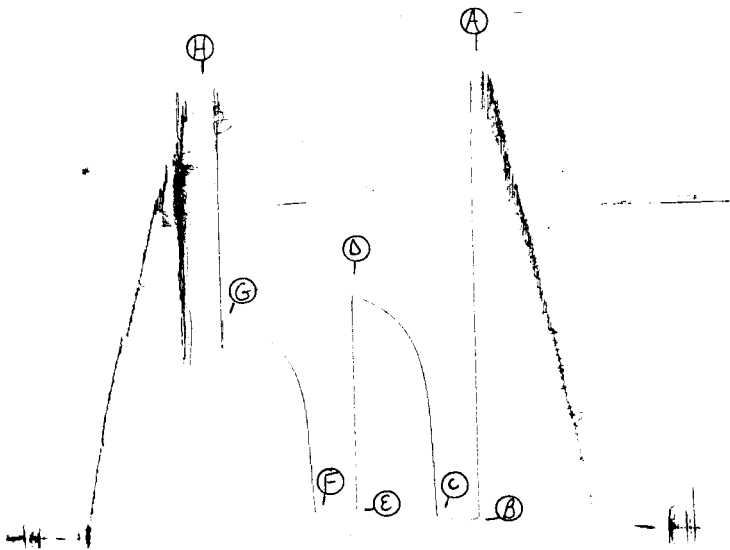
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2400 P.S.I.	Open Tool	3:30A	M
B First Initial Flow Pressure	69 P.S.I.	First Flow Pressure	30	Mins. 30 Mins.
C First Final Flow Pressure	89 P.S.I.	Initial Closed-in Pressure	60	Mins. 60 Mins.
D Initial Closed-in Pressure	1339 P.S.I.	Second Flow Pressure	30	Mins. 30 Mins.
E Second Initial Flow Pressure	125 P.S.I.	Final Closed-in Pressure	60	Mins. 66 Mins.
F Second Final Flow Pressure	126 P.S.I.			
G Final Closed-in Pressure	1227 P.S.I.			
H Final Hydrostatic Mud	2365 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>6</u> Inc.		Breakdown: <u>22</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	69	0	89	0	125	0	126
P 2 5	69	3	504	5	125	3	398
P 3 10	69	6	757	10	125	6	699
P 4 15	72	9	900	15	125	9	804
P 5 20	79	12	990	20	126	12	882
P 6 25	84	15	1050	25	126	15	938
P 7 30	89	18	1092	30	126	18	978
P 8		21	1131			21	1010
P 9		24	1161			24	1038
P10		27	1188			27	1062
P11		30	1211			30	1083
P12		33	1231			33	1104
P13		36	1251			36	1121
P14		39	1267			39	1136
P15		42	1281			42	1150
P16		45	1294			45	1163
P17		48	1304			48	1173
P18		51	1314			51	1183
P19		54	1324			54	1193
P19		57	1332			57	1203
P20		60	1339			60	1213
						63	1220
						66	1227

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TKT # 761.50

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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

OK
No 16150

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

Elevation 2087 KB Formation Miss. Eff. Pay _____ Ft.

District Pratt Date 10-11-82 Customer Order No. _____

COMPANY NAME Heben Drilling

ADDRESS 105 S. Blum Blum Plaza Bldg Suite 640 Wichita Ks 67202

LEASE AND WELL NO. #2 Swafford COUNTY Pratt STATE Ks. Sec. 5 Twp. 28 Rge. 15W

Mail Invoice To #2 SWAFFORD Co. Name _____ Address _____ No. Copies Requested _____

Mail Charts To _____ Address _____ No. Copies Requested 10

Formation Test No. 3 Interval Tested From 4600 ft. to 4637 ft. Total Depth 4637 ft.

Packer Depth 4595 ft. Size 6 3/8 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 4600 ft. Size 6 3/8 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4603 ft. Recorder Number 1566 Cap. 4300

Bottom Recorder Depth (Outside) 4607 ft. Recorder Number 3086 Cap. 4500

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

Drilling Contractor Rig 11 Drill Collar Length 158' I. D. 2.2 in.

Mud Type starch Viscosity 42 Weight Pipe Length _____ I. D. _____ in.

Weight 9.5 Water Loss 14.6 cc. Drill Pipe Length 4412' I. D. 3.2 in.

Chlorides 32,000 P.P.M. Test Tool Length 30 ft. Tool Size 5 1/2 in.

Jars: Make WTC Serial Number 3660 Anchor Length 37' 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 7/8 in. Tool Joint Size 4" in.

Blow: 3 inch depleting to 1/4 inch I.F.P.

Wk 1/4 inch F.F.P.

Recovered 70' ft. of dlg. mud w/ a very slight stain of O.

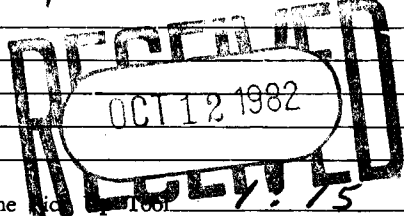
Recovered 120' ft. of Watery dlg. mud w/ a very few O.I. specks (slightly gascut)

Recovered _____ ft. of w/ 60% mud 40% Wtr. w/ 38,000 Chlorides.

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____



Time On Location 12:45 ^{A.M.}/_{P.M.} Time 10:15 ^{A.M.}/_{P.M.} Time Off Location 10:00 ^{A.M.}/_{P.M.}

Time Set Packer(s) 3:30 ^{A.M.}/_{P.M.} Time Started Off Bottom 6:30 ^{A.M.}/_{P.M.} Maximum Temperature 122°

Initial Hydrostatic Pressure (A) 2515 P.S.I.

Initial Flow Period Minutes 30 (B) 75 P.S.I. to (C) 97 P.S.I.

Initial Closed In Period Minutes 60 (D) 1345 P.S.I.

Final Flow Period Minutes 30 (E) 151 P.S.I. to (F) 118 P.S.I.

Final Closed In Period Minutes 60 (G) 1237 P.S.I.

Final Hydrostatic Pressure (H) 2504 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 Kenneth Spear
Signature of Customer or his authorized representative

Western Representative Mike Rogus. Thank You!

FIELD INVOICE

Open Hole Test	\$ <u>675.00</u>
Misrun	\$ _____
Straddle Test	\$ _____
Jars	\$ <u>300.00</u>
Selective Zone	\$ _____
Safety Joint	\$ <u>65.00</u>
Standby	\$ _____
Evaluation	\$ _____
Extra Packer	\$ _____
Circ. Sub.	\$ _____
Mileage	\$ _____
Fluid Sampler	\$ _____
5 Extra Chokes	\$ <u>12.50</u>
Insurance	\$ _____
Telecopier	\$ _____
TOTAL	\$ <u>1052.50</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 10-11 Test Ticket No. 16150
 Recorder No. 1566 Capacity 4300 Location 4603 Ft.
 Clock No. --- Elevation 2087 KB Well Temperature 122 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2400</u> P.S.I.	<u>3:30</u> A.M.	
B First Initial Flow Pressure	<u>69</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>89</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1339</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>125</u> P.S.I.	<u>60</u> Mins.	<u>66</u> Mins.
F Second Final Flow Pressure	<u>126</u> P.S.I.		
G Final Closed-in Pressure	<u>1227</u> P.S.I.		
H Final Hydrostatic Mud	<u>2365</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>20</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>22</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>0</u>	<u>89</u>	<u>0</u>	<u>125</u>	<u>0</u>	<u>126</u>
P 2	<u>5</u>	<u>3</u>	<u>504</u>	<u>5</u>	<u>5</u>	<u>3</u>	<u>398</u>
P 3	<u>10</u>	<u>6</u>	<u>757</u>	<u>10</u>	<u>5</u>	<u>6</u>	<u>699</u>
P 4	<u>15</u>	<u>9</u>	<u>900</u>	<u>15</u>	<u>125</u>	<u>9</u>	<u>804</u>
P 5	<u>20</u>	<u>12</u>	<u>990</u>	<u>20</u>	<u>126</u>	<u>12</u>	<u>882</u>
P 6	<u>25</u>	<u>15</u>	<u>1050</u>	<u>25</u>	<u>126</u>	<u>15</u>	<u>938</u>
P 7	<u>30</u>	<u>18</u>	<u>1092</u>	<u>30</u>	<u>126</u>	<u>18</u>	<u>978</u>
P 8	<u>35</u>	<u>21</u>	<u>1131</u>	<u>35</u>		<u>21</u>	<u>1010</u>
P 9	<u>40</u>	<u>24</u>	<u>1161</u>	<u>40</u>		<u>24</u>	<u>1038</u>
P10	<u>45</u>	<u>27</u>	<u>1188</u>	<u>45</u>		<u>27</u>	<u>1062</u>
P11	<u>50</u>	<u>30</u>	<u>1211</u>	<u>50</u>		<u>30</u>	<u>1083</u>
P12	<u>55</u>	<u>33</u>	<u>1231</u>	<u>55</u>		<u>33</u>	<u>1104</u>
P13	<u>60</u>	<u>36</u>	<u>1251</u>	<u>60</u>		<u>36</u>	<u>1121</u>
P14		<u>39</u>	<u>1267</u>	<u>65</u>		<u>39</u>	<u>1136</u>
P15		<u>42</u>	<u>1281</u>	<u>70</u>		<u>42</u>	<u>1150</u>
P16		<u>45</u>	<u>1294</u>	<u>75</u>		<u>45</u>	<u>1163</u>
P17		<u>48</u>	<u>1304</u>	<u>80</u>		<u>48</u>	<u>1173</u>
P18		<u>51</u>	<u>1314</u>	<u>85</u>		<u>51</u>	<u>1183</u>
P19		<u>54</u>	<u>1324</u>	<u>90</u>		<u>54</u>	<u>1193</u>
P20		<u>57</u>	<u>1332</u>			<u>57</u>	<u>1203</u>
		<u>60</u>	<u>1339</u>			<u>60</u>	<u>1213</u>
						<u>63</u>	<u>1220</u>