OK

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

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET №. 16405

Elevation ______ Formation Lansing Eff. Pay ______ Ft.

District Pratt Date 8-14-82 Customer Order No. ______

COMPANY NAME Leben Drilling Company 105 S. Bdwy

ADDRESS Wichita KS 67202 Bdwy Plaza Bldg Suite 640

LEASE AND WELL NO. Linnebur #1-A COUNTY Kingman STATE KS Sec 22 Twp. 30s Rge. 6w

Mail Invoice To Same #1-A LINNEBUR No. Copies Requested Reg
Co. Name Address

Mail Charts To Same No. Copies Requested Reg
Address

Formation Test No. 1 Interval Tested From 3577 ft. to 3600 ft. Total Depth 3600 ft.

Packer Depth 3572 ft. Size 6 3/4 in. Packer Depth ______ ft. Size ______ in.

Packer Depth 3577 ft. Size 6 3/4 in. Packer Depth ______ ft. Size ______ in.

Depth of Selective Zone Set ______

Top Recorder Depth (Inside) 3590 ft. Recorder Number 1565 Cap. 4900

Bottom Recorder Depth (Outside) 3593 ft. Recorder Number 1560 Cap. 4500

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

Drilling Contractor Leben Drlg #7 Drill Collar Length 210 I. D. 2.2 in.

Mud Type Starch Viscosity 40 Weight Pipe Length — I. D. — in.

Weight 9.4 Water Loss 17.4 cc. Drill Pipe Length 3347 I. D. 3.2 in.

Chlorides 27,000 P.P.M. Test Tool Length 20 ft. Tool Size 5½ OD in.

Jars: Make ______ Serial Number — Anchor Length 23 ft. Size 5½ 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" FH in.

Blow: Strong thru Both Flow Periods

Recovered 120 ft. of Gas In Pipe

Recovered 150 ft. of Slightly Oil Cut very Gassy Mud 55% M. 9% W. 3% O. 33% G.

Recovered 30 ft. of Slightly Oil Cut very Gassy Watery Mud

Recovered 900 ft. of Water Chlorides 120,000 ppm

Recovered ______ ft. of ______

Remarks: Slid tool 15 ft. to Bottom

RECEIVED AUG 17 1982

Time On Location 7:30 A.M. Time Pick Up Tool 10:30 A.M. Time Off Location 6:30 P.M.

Time Set Packer(s) 12:30 P.M. Time Started Off Bottom 3:30 P.M. Maximum Temperature 120°

Initial Hydrostatic Pressure		(A) 1790 P.S.I.	
Initial Flow Period	Minutes 30	(B) 160 P.S.I.	to (C) 297 P.S.I.
Initial Closed In Period	Minutes 60	(D) 1396 P.S.I.	
Final Flow Period	Minutes 30	(E) 346 P.S.I.	to (F) 457 P.S.I.
Final Closed In Period	Minutes 60	(G) 1396 P.S.I.	
Final Hydrostatic Pressure		(H) 1766 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 [signature]

Thank You

FIELD INVOICE

Open Hole Test	$ 600.00
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Standby	$
Evaluation	$
Extra Packer	$
Circ. Sub.	$
Mileage	$
Fluid Sampler	$
Extra Charts	$
Insurance	$
Telecopier	$
TOTAL	$ 600.00

WESTERN TESTING CO., INC.
Pressure Data

Date 8-14 | Test Ticket No. 16405

Recorder No. 1565 | Capacity 4900 | Location 3390 Ft.

Clock No. — — — — | Elevation | Well Temperature 120 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1788	P.S.I.	Open Tool	12:30 PM	
B	First Initial Flow Pressure	160	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	282	P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D	Initial Closed-in Pressure	1384	P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E	Second Initial Flow Pressure	356	P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F	Second Final Flow Pressure	454	P.S.I.			
G	Final Closed-in Pressure	1384	P.S.I.			
H	Final Hydrostatic Mud	1741	P.S.I.			

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	160
P 2 5	160
P 3 10	175
P 4 15	197
P 5 20	227
P 6 25	264
P 7 30	282
P 8 35	
P 9 40	
P10 45	
P11 50	
P12 55	
P13 60	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

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

Point Minutes	Press.
0	282
3	1177
6	1254
9	1290
12	1313
15	1328
18	1340
21	1347
24	1354
27	1361
30	1367
33	1372
36	1374
39	1376
42	1378
45	1379
48	1380
51	1381
54	1382
57	1383
60	1384

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

Point Minutes	Press.
0	356
5	356
10	375
15	393
20	418
25	442
30	454
35	
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	

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

Point Minutes	Press.
0	454
3	1214
6	1273
9	1304
12	1322
15	1337
18	1347
21	1352
24	1357
27	1361
30	1365
33	1369
36	1372
39	1375
42	1377
45	1379
48	1380
51	1381
54	1382
57	1383
60	1384

1565
DST#1

IKT # 16405

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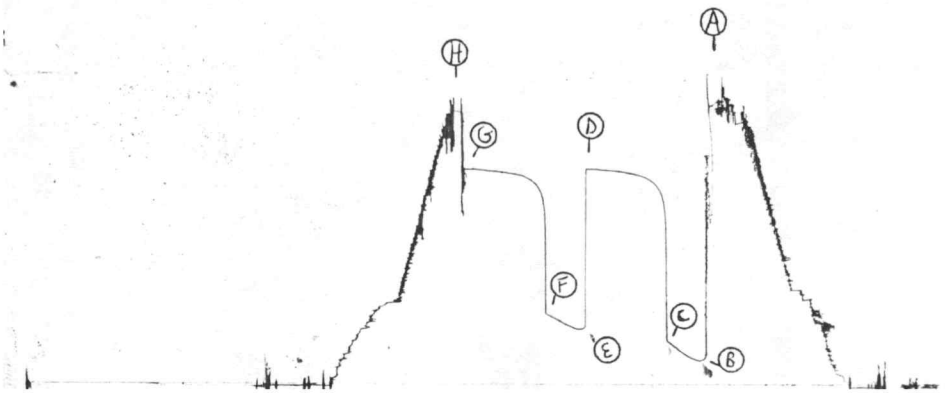

Company Leben Drilling Company — Lease & Well No. #1 A Linnebur

Elevation ---- — Formation Lansing — Effective Pay --- Ft. — Ticket No. 16405

Date 8/ 14 /82 — Sec. 22 — Twp. 30S — Range 6W — County Kingman — State Kansas

Test Approved by Kenneth Spear — Western Representative Jeff Piotrowski

Formation Test No. 1 — Interval Tested from 3577 ft. to 3600 ft. — Total Depth 3600 ft.

Packer Depth 3572 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Packer Depth 3577 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3590 ft. — Recorder Number 1565 — Cap. 4900

Bottom Recorder Depth (Outside) 3593 ft. — Recorder Number 1560 — Cap. 4500

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

Drilling Contractor Leben Drlg. Rig #7 — Drill Collar Length 210 — I. D. 2.2 in.

Mud Type starch — Viscosity 40 — Weight Pipe Length - — I. D. - in.

Weight 9.4 — Water Loss 17.4 cc. — Drill Pipe Length 3347 — I. D. 3.2 in.

Chlorides 27,000 P.P.M. — Test Tool Length 20 ft. — Tool Size 5½OD in.

Jars: Make - — Serial Number - — Anchor Length 23 ft. — Size 5½OD 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"FH in.

Blow: Strong throughout both flow periods.

Recovered 120 ft. of gas in pipe

Recovered 150 ft. of slightly oil cut very gassy mud 55% mud;9% water;3%oil ;33% gas

Recovered 30 ft. of slightly oil cut very gassy watery mud

Recovered 900 ft. of water Chlorides 120,000 ppm

Recovered ft. of

Remarks: Slid tool fifteen feet to bottom.

Time Set Packer(s) 12:30 ~~A.M.~~ P.M. — Time Started Off Bottom 3:30 ~~A.M.~~ P.M. — Maximum Temperature 120°

Initial Hydrostatic Pressure		(A) 1788 P.S.I.		
Initial Flow Period	Minutes 30	(B) 160 P.S.I.	to (C) 282	P.S.I.
Initial Closed In Period	Minutes 60	(D) 1384 P.S.I.		
Final Flow Period	Minutes 30	(E) 356 P.S.I.	to (F) 454	P.S.I.
Final Closed In Period	Minutes 60	(G) 1384 P.S.I.		
Final Hydrostatic Pressure		(H) 1741 P.S.I.		

WESTERN TESTING CO., INC.
Pressure Data

Date 8/14/82 Test Ticket No. 16405

Recorder No. 1565 Capacity 4900 Location 3390 Ft.

Clock No. -- Elevation -- Well Temperature 120 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1788 P.S.I.	Open Tool		12:30P	M
B	First Initial Flow Pressure	160 P.S.I.	First Flow Pressure		30 Mins.	30 Mins.
C	First Final Flow Pressure	282 P.S.I.	Initial Closed-in Pressure		60 Mins.	60 Mins.
D	Initial Closed-in Pressure	1384 P.S.I.	Second Flow Pressure		30 Mins.	30 Mins.
E	Second Initial Flow Pressure	356 P.S.I.	Final Closed-in Pressure		60 Mins.	60 Mins.
F	Second Final Flow Pressure	454 P.S.I.				
G	Final Closed-in Pressure	1384 P.S.I.				
H	Final Hydrostatic Mud	1741 P.S.I.				

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	160
P 2 5	160
P 3 10	175
P 4 15	197
P 5 20	227
P 6 25	264
P 7 30	282
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

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

Point Minutes	Press.
0	282
3	1177
6	1254
9	1290
12	1313
15	1328
18	1340
21	1347
24	1354
27	1361
30	1367
33	1372
36	1374
39	1376
42	1378
45	1379
48	1380
51	1381
54	1382
57	1383
60	1384

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

Point Minutes	Press.
0	356
5	356
10	375
15	393
20	418
25	442
30	454

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

Point Minutes	Press.
0	454
3	1214
6	1273
9	1304
12	1322
15	1337
18	1347
21	1352
24	1357
27	1361
30	1365
33	1369
36	1372
39	1375
42	1377
45	1379
48	1380
51	1381
54	1382
57	1383
60	1384

OK

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET № 16406

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

Elevation ______ Formation Lansing Eff. Pay ______ Ft.

District Pratt Date 8-15-82 Customer Order No. ______

COMPANY NAME Leben Drilling Company 125 S Bluny Bluny Plaza Bldg Suite 640

ADDRESS Wichita KS

LEASE AND WELL NO. Linnebur #1-A COUNTY Kingman STATE KS Sec. 22 Twp. 30s Rge. 6w

Mail Invoice To Same #1-A LINNEBUR No. Copies Requested Reg
Co. Name Address

Mail Charts To Same No. Copies Requested Reg
Address

Formation Test No. 2 Interval Tested From 3616 ft. to 3645 ft. Total Depth 3645 ft.
Packer Depth 3611 ft. Size 6¾ in. Packer Depth ______ ft. Size ______ in.
Packer Depth 3616 ft. Size 6¾ in. Packer Depth ______ ft. Size ______ in.
Depth of Selective Zone Set ______

Top Recorder Depth (Inside) 3635 ft. Recorder Number 1565 Cap. 4900
Bottom Recorder Depth (Outside) 3638 ft. Recorder Number 1560 Cap. 4500
Below Straddle Recorder Depth ______ ft. Recorder Number ______ Cap. ______

Drilling Contractor Leben #11 Drill Collar Length 210 I. D. 2.2 in.
Mud Type Starch Viscosity 40 Weight Pipe Length — I. D. — in.
Weight 9.5 Water Loss 15.2 cc. Drill Pipe Length 3386 I. D. 3.2 in.
Chlorides 29,000 P.P.M. Test Tool Length 20 ft. Tool Size 5½ OD in.
Jars: Make — Serial Number — Anchor Length 29 ft. Size 5½ OD in.
Did Well Flow? NO Reversed Out NO Surface Choke Size ¾ in. Bottom Choke Size ¾ in.
Main Hole Size 7⅞ in. Tool Joint Size 4" FH in.

Blow: Strong thru Both Flow Periods.

Recovered 960 ft. of Gas IN Pipe
Recovered 60 ft. of Gassy Mud
Recovered 360 ft. of Heavy Oil Cut Gassy Mud Top. 26% M. 6% W. 9% Oil 59% G.
Recovered ______ ft. of Middle - 20% M. 15% O. 5% W. 60% G.
Recovered ______ ft. of Bottom 28% M 5% W. 18% O. 49% G.
Remarks: ______

Time On Location 4:00 A.M. Time Pick Up Tool 6:00 A.M. Time Off Location 2:30 P.M.
Time Set Packer(s) 8:08 A.M. Time Started Off Bottom 11:08 A.M. Maximum Temperature 125°
Initial Hydrostatic Pressure .... (A) 1827 P.S.I.
Initial Flow Period .... Minutes 30 (B) 61 P.S.I. to (C) 74 P.S.I.
Initial Closed In Period .... Minutes 60 (D) 1359 P.S.I.
Final Flow Period .... Minutes 30 (E) 86 P.S.I. to (F) 86 P.S.I.
Final Closed In Period .... Minutes 60 (G) 1298 P.S.I.
Final Hydrostatic Pressure .... (H) 1827 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 Robert L Lugmen
Signature of Customer or his authorized representative

Western Representative Jeff Piotrowski

Thank you

RECEIVED AUG 17 1982

FIELD INVOICE

Open Hole Test	$ 600.00
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Standby	$
Evaluation	$
Extra Packer	$
Circ. Sub.	$
Mileage	$
Fluid Sampler	$
Extra Charts	$
Insurance	$
Telecopier	$
TOTAL	$ 600.00

WESTERN TESTING CO., INC.
Pressure Data

Date 8-15 | Test Ticket No. 16406

Recorder No. 1565 | Capacity 4900 | Location 3635 Ft.

Clock No. — — — — | Elevation ——— | Well Temperature 125 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1827 P.S.I.		Open Tool	8:08 AM	
B	First Initial Flow Pressure	71 P.S.I.		First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	87 P.S.I.		Initial Closed-in Pressure	60 Mins.	60 Mins.
D	Initial Closed-in Pressure	1369 P.S.I.		Second Flow Pressure	30 Mins.	30 Mins.
E	Second Initial Flow Pressure	100 P.S.I.		Final Closed-in Pressure	60 Mins.	66 Mins.
F	Second Final Flow Pressure	100 P.S.I.				
G	Final Closed-in Pressure	1295 P.S.I.				
H	Final Hydrostatic Mud	1827 P.S.I.				

PRESSURE BREAKDOWN

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

Point	Mins.	Press.
P 1	0	71
P 2	5	71
P 3	10	72
P 4	15	73
P 5	20	77
P 6	25	82
P 7	30	87
P 8	35	
P 9	40	
P10	45	
P11	50	
P12	55	
P13	60	
P14		
P15		
P16		
P17		
P18		
P19		
P20		

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

Point Minutes	Press.
0	87
3	113
6	151
9	207
12	280
15	342
18	433
21	557
24	705
27	856
30	995
33	1099
36	1180
39	1234
42	1273
45	1300
48	1323
51	1337
54	1349
57	1361
60	1369

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

Point Minutes	Press.
0	100
5	100
10	100
15	
20	
25	
30	100
35	
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	

Final Shut-In
Breakdown: 22 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	100
3	115
6	138
9	162
12	192
15	229
18	270
21	313
24	361
27	425
30	505
33	588
36	681
39	790
42	894
45	990
48	1064
51	1140
54	1190
57	1231
60	1260
63	1286
66	1295

WTC - 4

1565
DST #2

IKT # 16406

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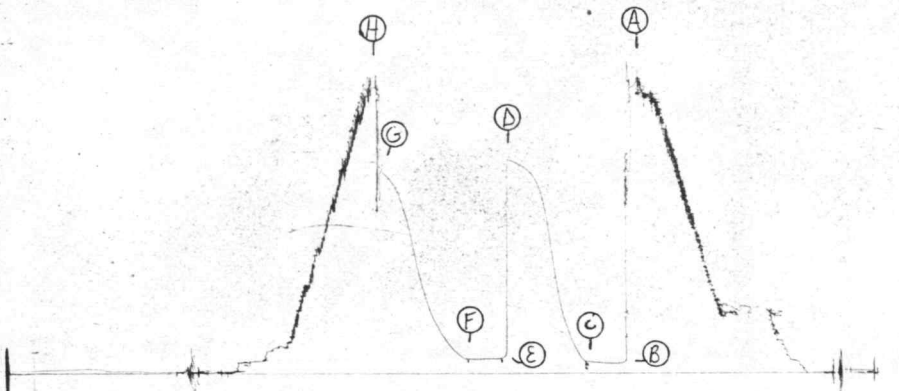


Company Leben Drilling Company | Lease & Well No. #1 A Linnebur

Elevation ---- | Formation Lansing | Effective Pay --- Ft. | Ticket No. 16406

Date 8/15/82 | Sec. 22 | Twp. 30S | Range 6W 6W | County Kingman | State Kansas

Test Approved by Robert Layman | Western Representative Jeff Piotrowski

Formation Test No. 2 | Interval Tested from 3616 ft. to 3645 ft. | Total Depth 3645 ft.

Packer Depth 3611 ft. | Size 6 3/4 in. | Packer Depth - ft. | Size - in.

Packer Depth 3616 ft. | Size 6 3/4 in. | Packer Depth - ft. | Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3635 ft. | Recorder Number 1565 | Cap. 4900

Bottom Recorder Depth (Outside) 3638 ft. | Recorder Number 1560 | Cap. 4500

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

Drilling Contractor Leben Drlg. Rig #7 | Drill Collar Length 210 | I. D. 2.2 in.

Mud Type starch | Viscosity 40 | Weight Pipe Length - | I. D. - in.

Weight 9.5 | Water Loss 15.2 cc. | Drill Pipe Length 3386 | I. D. 3.2 in.

Chlorides 29,000 P.P.M. | Test Tool Length 20 ft. | Tool Size 5½OD in.

Jars: Make - | Serial Number - | Anchor Length 29 ft. | Size 5½OD 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"FH in.

Blow: Strong through both flow periods.

Recovered 960 ft. of gas in pipe

Recovered 60 ft. of gassy mud

Recovered 360 ft. of heavy oil cut gassy mud — Top: 26% mud;6% water;9% oil;59% gas

Recovered ft. of — Middle : 20% mud;15% oil;5% water;60% gas

Recovered ft. of — Bottom : 28% mud;5% water;18% oil;49% gas

Remarks:

Time Set Packer(s) 8:08 A.M. ~~P.M.~~ | Time Started Off Bottom 11:08 A.M. ~~P.M.~~ | Maximum Temperature 125°

Initial Hydrostatic Pressure			(A)	1827	P.S.I.	
Initial Flow Period	Minutes 30	(B)	71	P.S.I. to (C)	87	P.S.I.
Initial Closed In Period	Minutes 60	(D)	1369	P.S.I.		
Final Flow Period	Minutes 30	(E)	100	P.S.I. to (F)	100	P.S.I.
Final Closed In Period	Minutes 66	(G)	1295	P.S.I.		
Final Hydrostatic Pressure		(H)	1827	P.S.I.		

WESTERN TESTING CO., INC.
Pressure Data

Date 8/15/82 Test Ticket No. 16406

Recorder No. 1565 Capacity 4900 Location 3635 Ft.

Clock No. --- Elevation --- Well Temperature 125 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1827 P.S.I.	Open Tool		8:08A M	
B	First Initial Flow Pressure	71 P.S.I.	First Flow Pressure		30 Mins.	30 Mins.
C	First Final Flow Pressure	87 P.S.I.	Initial Closed-in Pressure		60 Mins.	60 Mins.
D	Initial Closed-in Pressure	1369 P.S.I.	Second Flow Pressure		30 Mins.	30 Mins.
E	Second Initial Flow Pressure	100 P.S.I.	Final Closed-in Pressure		60 Mins.	66 Mins.
F	Second Final Flow Pressure	100 P.S.I.				
G	Final Closed-in Pressure	1295 P.S.I.				
H	Final Hydrostatic Mud	1827 P.S.I.				

PRESSURE BREAKDOWN

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

Point	Mins.	Press.
P 1	0	71
P 2	5	71
P 3	10	72
P 4	15	73
P 5	20	77
P 6	25	82
P 7	30	87
P 8		
P 9		
P10		
P11		
P12		
P13		
P14		
P15		
P16		
P17		
P18		
P19		
P20		

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

Point Minutes	Press.
0	87
3	113
6	151
9	207
12	280
15	342
18	433
21	557
24	705
27	856
30	995
33	1099
36	1180
39	1234
42	1273
45	1300
48	1323
51	1337
54	1349
57	1361
60	1369

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

Point Minutes	Press.
0	100
5	100
10	100
15	100
20	100
25	100
30	100

Final Shut-In
Breakdown: 22 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	100
3	115
6	138
9	162
12	192
15	229
18	270
21	313
24	361
27	425
30	505
33	588
36	681
39	790
42	894
45	990
48	1064
51	1150
54	1190
57	1231
60	1260
63	1286
66	1295

OK

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

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET №. 16407

Elevation ______ Formation ______ Eff. Pay ______ Ft.

District Pratt Date 8-16-82 Customer Order No. ______

COMPANY NAME Leben Drlg Company 115 S Bdwy Bdwy Plaza Bldg Suite 640

ADDRESS Wichita KS 67202

LEASE AND WELL NO. Linnebur #1-A COUNTY Kingman STATE KS Sec. 22 Twp. 30S Rge. 6W

Mail Invoice To Same #1-A LINNEBUR No. Copies Requested Reg
Co. Name Address

Mail Charts To Same No. Copies Requested Reg
Address

Formation Test No. 3 Interval Tested From 3652 ft. to 3670 ft. Total Depth 3670 ft.
Packer Depth 3647 ft. Size 6 3/4 in. Packer Depth ______ ft. Size ______ in.
Packer Depth 3652 ft. Size 6 3/4 in. Packer Depth ______ ft. Size ______ in.
Depth of Selective Zone Set ______

Top Recorder Depth (Inside) 3660 ft. Recorder Number 1565 Cap. 4900
Bottom Recorder Depth (Outside) 3663 ft. Recorder Number 1560 Cap. 4500
Below Straddle Recorder Depth ______ ft. Recorder Number ______ Cap. ______

Drilling Contractor Leben #7 Drill Collar Length 210 I. D. 2.2 in.
Mud Type Starch Viscosity 40 Weight Pipe Length — I. D. — in.
Weight 9.5 Water Loss 15.2 cc. Drill Pipe Length 3422 I. D. 3.2 in.
Chlorides 29,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
Jars: Make — Serial Number — Anchor Length 18 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" FH in.

Blow: Strong GTS 14 min - See ~~Gas Flow Report.~~ ~~attached sheet for gas measurements.~~

Recovered 600 ft. of Clean Oil ~~40~~ 39° Gravity
Recovered ______ ft. of ______
Recovered ______ ft. of ______
Recovered ______ ft. of ______
Recovered ______ ft. of ______
Remarks: ______

RECEIVED AUG 17 1982

Time On Location 9:00 (P.M.) Time Pick Up Tool 11:00 (P.M.) Time Off Location 9:00 (A.M.)
Time Set Packer(s) 1:45 (A.M.) Time Started Off Bottom 5:30 (A.M.) Maximum Temperature 110°

Initial Hydrostatic Pressure		(A) 1852 P.S.I.			
Initial Flow Period	Minutes 30	(B) 86 P.S.I.	to (C) 111 P.S.I.		
Initial Closed In Period	Minutes 60	(D) 1396 P.S.I.			
Final Flow Period	Minutes 45	(E) 136 P.S.I.	to (F) 185 P.S.I.		
Final Closed In Period	Minutes 90	(G) 1359 P.S.I.			
Final Hydrostatic Pressure		(H) 1815 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 Robert L Lenzam
Signature of Customer or his authorized representative

Western Representative Jeff Pietrowski

Thank you!

FIELD INVOICE

Open Hole Test	$ 600.00
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Standby	$
Evaluation	$
Extra Packer	$
Circ. Sub.	$
Mileage	$
Fluid Sampler	$
Extra Charts	$
Insurance	$
Telecopier	$
TOTAL	$ 600.00

Phone 316 262-5861

P. O. Box 1599

WICHITA, KANSAS 67201

No. 4052

GAS FLOW REPORT

Date 8-16-82 Ticket 16407 Company Leben Drilling Co

Well Name and No. Linneber #1-A Dst No. 3 Interval Tested 4652-70 3552' 3670'

County Kingman State KS Sec. 22 Twp. 30s Rg. 6w

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
					PRE FLOW GTS 14 min
10	1.5	¼			11,020 cfpd
15	2	¼			12,700 cfpd
					SECOND FLOW
10	1.5	¼			11,020 cfpd
20	1.5	¼			11,020
30	1	¼			8,950
40	1	¼			8,950
45	1	¼			8,950

GAS BOTTLE

Serial No. 84 Date Bottle Filled 8-16-82 Date to be Invoiced 8-16-82

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of $75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1½% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Leben Drlg.

Authorized by Robert L Hagen

FORM WTC 9

WESTERN TESTING CO., INC.

Pressure Data

Date 8-16 Test Ticket No. 16407

Recorder No. 1565 Capacity 4900 Location 3660 Ft.

Clock No. — — — — Elevation ——— Well Temperature 110 °F

Point		Pressure	
A	Initial Hydrostatic Mud	1830	P.S.I.
B	First Initial Flow Pressure	96	P.S.I.
C	First Final Flow Pressure	114	P.S.I.
D	Initial Closed-in Pressure	1396	P.S.I.
E	Second Initial Flow Pressure	139	P.S.I.
F	Second Final Flow Pressure	192	P.S.I.
G	Final Closed-in Pressure	1379	P.S.I.
H	Final Hydrostatic Mud	1818	P.S.I.

	Time Given	Time Computed
Open Tool	1:45 A M	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	60 Mins.	60 Mins.
Second Flow Pressure	45 Mins.	45 Mins.
Final Closed-in Pressure	90 Mins.	90 Mins.

PRESSURE BREAKDOWN

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

Point	Mins.	Press.
P 1	0	96
P 2	5	96
P 3	10	97
P 4	15	98
P 5	20	101
P 6	25	106
P 7	30	114
P 8	35	
P 9	40	
P10	45	
P11	50	
P12	55	
P13	60	
P14		
P15		
P16		
P17		
P18		
P19		
P20		

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

Point Minutes	Press.
0	114
3	512
6	896
9	1064
12	1160
15	1221
18	1261
21	1288
24	1308
27	1325
30	1340
33	1352
36	1362
39	1367
42	1374
45	1379
48	1383
51	1387
54	1390
57	1393
60	1396

Second Flow Pressure
Breakdown: 9 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	139
5	139
10	141
15	145
20	152
25	163
30	173
35	177
40	188
45	192
50	
55	
60	
65	
70	
75	
80	
85	
90	

Final Shut-In
Breakdown: 30 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	192
3	557
6	871
9	1007
12	1096
15	1150
18	1194
21	1227
24	1251
27	1268
30	1283
33	1297
36	1307
39	1314
42	1321
45	1328
48	1335
51	1340
54	1345
57	1350
60	1355

cont'd

WESTERN TESTING CO., INC.
Pressure Data

Date _____ Test Ticket No. 16407

Recorder No. _____ Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	P.S.I.	Open Tool	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

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

Point Mins.	Press.
P 1	
P 2	
P 3	
P 4	
P 5	
P 6	
P 7	
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

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

Point Minutes	Press.
63	
66	
69	
72	
75	
78	
81	
84	
87	
90	
93	
96	
99	
102	
105	
108	
111	
114	
117	
120	

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

Point Minutes	Press.

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

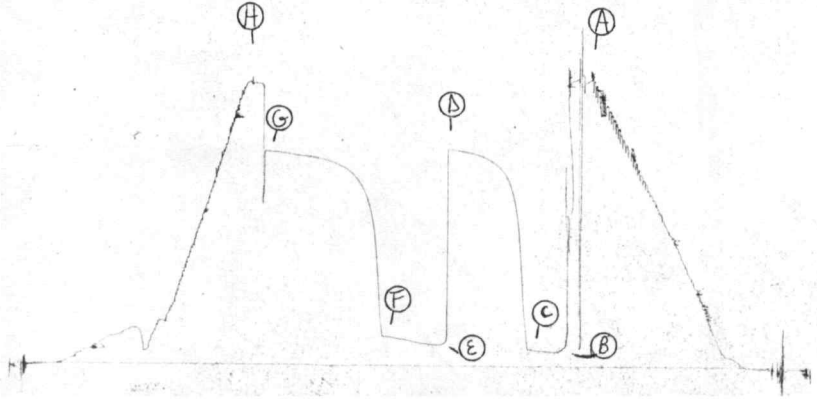
Point Minutes	Press.
63	1359
66	1362
69	1365
72	1367
75	1369
78	1371
81	1373
84	1375
87	1377
90	1379
93	
96	
99	
102	
105	
108	
111	
114	
117	
120	

WTC - 4

1565
DST #3

IRT # 16407

I



Company Leben Drilling Company — Lease & Well No. #1 A Linnebur

Elevation ---- Formation ---- Effective Pay --- Ft. Ticket No. 16407

Date 8/ 16 /82 Sec. 22 Twp. 30S Range 6W County Kingman State Kansas

Test Approved by Robert L. Layman — Western Representative Jeff Piotrowski

Formation Test No. 3 Interval Tested from 3652 ft. to 3670 ft. Total Depth 3670 ft.

Packer Depth 3647 ft. Size 6 3/4 in. — Packer Depth - ft. Size - in.

Packer Depth 3652 ft. Size 6 3/4 in. — Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3660 ft. — Recorder Number 1565 Cap. 4900

Bottom Recorder Depth (Outside) 3663 ft. — Recorder Number 1560 Cap. 4500

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

Drilling Contractor Leben Drlg. Rig #7 — Drill Collar Length 210 I. D. 2.2 in.

Mud Type starch Viscosity 40 — Weight Pipe Length - I. D. - in.

Weight 9.5 Water Loss 15.2 cc. — Drill Pipe Length 3422 I. D. 3.2 in.

Chlorides 29,000 P.P.M. — Test Tool Length 20 ft. Tool Size 5½OD in.

Jars: Make - Serial Number - — Anchor Length 18 ft. Size 5½OD 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"FH in.

Blow: Strong. Gas to surface in fourteen minutes . See attached sheet for gas measurements.

Recovered 600 ft. of clean oil 39° gravity

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 1:45 A.M. P.M. Time Started Off Bottom 5:30 A.M. P.M. Maximum Temperature 110°

Initial Hydrostatic Pressure			(A)	1830	P.S.I.	
Initial Flow Period	Minutes 30	(B)	96	P.S.I. to (C)	114	P.S.I.
Initial Closed In Period	Minutes 60	(D)	1396	P.S.I.		
Final Flow Period	Minutes 45	(E)	139	P.S.I. to (F)	192	P.S.I.
Final Closed In Period	Minutes 90	(G)	1379	P.S.I.		
Final Hydrostatic Pressure			(H)	1818	P.S.I.	

GAS FLOW REPORT

Date 8/16/82 Ticket 16407 Company Leben Drilling Company

Well Name and No. Linnebur #1-A Dst No. 3 Interval Tested 3652'-3670'

County Kingman State Kansas Sec. 22 Twp. 30S Rg. 6W

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
PRE FLOW					
Gas to surface in fourteen minutes.					
10 min.	1.5 PSIG	1/4" orifice			11,020 CFPD
15 min.	2.0 PSIG	1/4" orifice			12,700 CFPD
SECOND FLOW					
10 min.	1.5 PSIG	1/4" orifice			11,020 CFPD
20 min.	1.5 PSIG	1/4" orifice			11,020 CFPD
30 min.	1.0 PSIG	1/4" orifice			8,950 CFPD
40 min.	1.0 PSIG	1/4" orifice			8,950 CFPD
45 min.	1.0 PSIG	1/4" orifice			8,950 CFPD

GAS BOTTLE

Serial No. 84 Date Bottle Filled 8/16/82 Date to be Invoiced 8/16/82

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of $75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1½% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Leben Drilling Company

Authorized by Robert L. Layman

FORM WTC 6

WESTERN TESTING CO., INC.
Pressure Data

Date 8/16/82 Test Ticket No. 16407

Recorder No. 1565 Capacity 4900 Location 3660 Ft.

Clock No. - Elevation -- Well Temperature 110 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1830 P.S.I.	Open Tool		1:45A M	
B	First Initial Flow Pressure	96 P.S.I.	First Flow Pressure		30 Mins.	30 Mins.
C	First Final Flow Pressure	114 P.S.I.	Initial Closed-in Pressure		60 Mins.	60 Mins.
D	Initial Closed-in Pressure	1396 P.S.I.	Second Flow Pressure		45 Mins.	45 Mins.
E	Second Initial Flow Pressure	139 P.S.I.	Final Closed-in Pressure		90 Mins.	90 Mins.
F	Second Final Flow Pressure	192 P.S.I.				
G	Final Closed-in Pressure	1379 P.S.I.				
H	Final Hydrostatic Mud	1818 P.S.I.				

PRESSURE BREAKDOWN

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

Point	Mins.	Press.
P 1	0	96
P 2	5	96
P 3	10	97
P 4	15	98
P 5	20	101
P 6	25	106
P 7	30	114
P 8		
P 9		
P10		
P11		
P12		
P13		
P14		
P15		
P16		
P17		
P18		
P19		
P20		

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

Point	Minutes	Press.
	0	114
	3	512
	6	896
	9	1064
	12	1160
	15	1221
	18	1261
	21	1288
	24	1308
	27	1325
	30	1340
	33	1352
	36	1362
	39	1367
	42	1374
	45	1379
	48	1383
	51	1387
	54	1390
	57	1393
	60	1396

Second Flow Pressure
Breakdown: 9 Inc. of 5 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
	0	139
	5	139
	10	141
	15	145
	20	152
	25	163
	30	173
	35	177
	40	188
	45	192

Final Shut-In
Breakdown: 30 Inc. of 3 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
	0	192
	3	557
	6	871
	9	1007
	12	1096
	15	1150
	18	1194
	21	1227
	24	1251
	27	1268
	30	1283
	33	1297
	36	1307
	39	1314
	42	1321
	45	1328
	48	1335
	51	1340
	54	1345
	57	1350
	60	1355

CONTINUED NEXT PAGE

WESTERN TESTING CO., INC.
Pressure Data

Date 8/16/82 Test Ticket No. 16407

Recorder No. 1565 Capacity 4900 Location 3660 Ft.

Clock No. - Elevation -- Well Temperature 110 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1830 P.S.I.	Open Tool	1:45A M	
B First Initial Flow Pressure	96 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	114 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1396 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	139 P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F Second Final Flow Pressure	192 P.S.I.			
G Final Closed-in Pressure	1379 P.S.I.			
H Final Hydrostatic Mud	1818 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: 9 Inc. of 5 mins. and a final inc. of 0 Min.

Final Shut-In
Breakdown: 30 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						63	1359
P 2						66	1362
P 3						69	1365
P 4						72	1367
P 5						75	1369
P 6						78	1371
P 7						81	1373
P 8						84	1375
P 9						87	1377
P10						90	1379
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

Liquid Production

B.T. Gauge Numbers		1565	Ticket Number		16407
		PRESSURE			
Initial Hydrostatic		1830	Elevation		----- ft.
Final Hydrostatic		1818	Indicated Production	1st Flow	1.45 bbls. day
	Time			Total Flow	6.50 bbls. day
1st Flow Initial	----	96			
1st Flow Final	30	114	Drill Collar Length		210 ft.
Initial Closed In Pressure	60	1396	Drill Collar I.D.		2.25 in.
2nd Flow Initial	----	139	Drill Pipe Factor		.0142 bbls. ft.
2nd Flow Final	45	192	Hole Size		7.875 in.
Final Closed In Pressure	90	1379	Footage Tested		18 ft.
Extrapolated Static Pressure	Initial	1454 - 1117	Mud Weight		9.5 lbs. gal.
	Final	1435 - 1108	Viscosity, Oil or Water		15.2 cp
Slope psi/cycle	Initial	336.385	Oil API Gravity		—
	Final	327.639	Water Specific Gravity		—

Remarks:

SUMMARY

		Gauge No. / Depth	996	995	
Product	Equation		INITIAL	FINAL	Units
Production	$Q = \frac{1440\ R}{t}$		69.828	208.279	bbls., day.
Transmissability	$\frac{Kh}{\mu} = \frac{162.6\ Q}{m}$		33.691	103.566	md. ft. / cp .
Indicated Flow Capacity	$Kh = \frac{Kh}{\mu}\ \mu$		134.766	414.266	md. ft.
Average Effective	$K = \frac{Kh}{h}$		14.974	46.029	md.
Permeability	$K_1 = \frac{Kh}{h_1}$		. --------	-------	md.
Damage Ratio	$DR = .183\ \frac{Ps - Pf}{m}$		.727	.695	—
Theoretical Potential w/Damage Removed	$Q_1 = Q\ DR$		--------	-------	bbls. day
Approx. Radius of Investigation	$b \leftrightarrows \sqrt{Kt}$ or $\sqrt{Kt_0}$		50.81	45.51	ft.
	$b_1 \leftrightarrows \sqrt{K_1 t}$ or $\sqrt{K_1 t_0}$		-------	-------	ft.
Potentiometric Surface *	$Pot. = El - GD + 2.319\ Ps$		--------	-------	ft.

INTERPRETATIONS AND CALCULATIONS

OK

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No. 16408

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

Elevation _____ Formation Lansing Eff. Pay _____ Ft.

District Pratt Date 8-16-82 Customer Order No. _____

COMPANY NAME Leben Drlg. Company 105 S Broadway Broadway Plaza Bldg Suite 648 Wichita KS 67202

ADDRESS Wichita KS

LEASE AND WELL NO. Linnebur #1-A COUNTY Kingman STATE KS Sec. 22 Twp. 30S Rge. 6W

Mail Invoice To Same #1-A LINNEBUR No. Copies Requested Reg
Co. Name Address

Mail Charts To Same No. Copies Requested Reg
Address

Formation Test No. 4 Interval Tested From 3680 ft. to 3701 ft. Total Depth 3701 ft.

Packer Depth 3675 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 3680 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3691 ft. Recorder Number 1565 Cap. 4500

Bottom Recorder Depth (Outside) 3694 ft. Recorder Number 1560 Cap. 4500

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

Drilling Contractor Leben #7

Mud Type Starch Viscosity 48

Weight 9.2 Water Loss 8.2 cc.

Chlorides 33,000 P.P.M.

Jars: Make - Serial Number -

Did Well Flow? NO Reversed Out Yes

Drill Collar Length 210 I. D. 2.2 in.

Weight Pipe Length - I. D. - in.

Drill Pipe Length 3450 I. D. 3.2 in.

Test Tool Length 20 ft. Tool Size 5 1/2 OD in.

Anchor Length 21 ft. Size 5 1/2 OD in.

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

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

Blow: Strong thru Both Flow Periods

Recovered 60 ft. of Gas In Pipe

Recovered 2490 ft. of Gassy Water With a Few Oil Specks

Recovered _____ ft. of Chlorides 132,000 ppm

Recovered _____ ft. of

Recovered _____ ft. of

Remarks: _____

RECEIVED AUG 18 1982

Time On Location 6:30 A.M. / P.M. Time Pick Up Tool 8:00 A.M. / P.M. Time Off Location A.M. / P.M.

Time Set Packer(s) 10:05 A.M. / P.M. Time Started Off Bottom 1:50 A.M. / P.M. Maximum Temperature 110

Initial Hydrostatic Pressure		(A) 1876	P.S.I.	
Initial Flow Period	Minutes 30	(B) 259	P.S.I. to (C) 779	P.S.I.
Initial Closed In Period	Minutes 60	(D) 1396	P.S.I.	
Final Flow Period	Minutes 45	(E) 866	P.S.I. to (F) 1162	P.S.I.
Final Closed In Period	Minutes 90	(G) 1396	P.S.I.	
Final Hydrostatic Pressure		(H) 1827	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 Jeff Rutland

Thank You

FIELD INVOICE

Open Hole Test	$ 600.00
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Standby	$
Evaluation	$
Extra Packer	$ 35.00
Circ. Sub.	$
Mileage	$
Fluid Sampler	$
Extra Charts	$
Insurance	$
Telecopier	$
TOTAL	$ 635.00

WESTERN TESTING CO., INC.
Pressure Data

Date 8-16 | Test Ticket No. 16408

Recorder No. 1565 | Capacity 4900 | Location 3691 Ft.

Clock No. — — — — | Elevation | Well Temperature 110 °F

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	1873	P.S.I.	Open Tool 10:05 PM	
B	First Initial Flow Pressure	260	P.S.I.	First Flow Pressure 30 Mins.	30 Mins.
C	First Final Flow Pressure	769	P.S.I.	Initial Closed-in Pressure 60 Mins.	60 Mins.
D	Initial Closed-in Pressure	1392	P.S.I.	Second Flow Pressure 45 Mins.	45 Mins.
E	Second Initial Flow Pressure	875	P.S.I.	Final Closed-in Pressure 90 Mins.	96 Mins.
F	Second Final Flow Pressure	1177	P.S.I.		
G	Final Closed-in Pressure	1412	P.S.I.		
H	Final Hydrostatic Mud	1864	P.S.I.		

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	260
P 2 5	356
P 3 10	465
P 4 15	554
P 5 20	639
P 6 25	710
P 7 30	769
P 8 35	
P 9 40	
P10 45	
P11 50	
P12 55	
P13 60	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

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

Point Minutes	Press.
0	769
3	1074
6	1148
9	1194
12	1229
15	1256
18	1281
21	1299
24	1315
27	1330
30	1337
33	1347
36	1355
39	1364
42	1369
45	1374
48	1378
51	1382
54	1386
57	1389
60	1392

Second Flow Pressure
Breakdown: 9 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	875
5	885
10	936
15	985
20	1030
25	1068
30	1101
35	1132
40	1159
45	1177
50	
55	
60	
65	
70	
75	
80	
85	
90	

Final Shut-In
Breakdown: 32 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	1177
3	1271
6	1298
9	1317
12	1329
15	1339
18	1346
21	1353
24	1359
27	1364
30	1369
33	1374
36	1377
39	1380
42	1383
45	1386
48	1389
51	1392
54	1394
57	1396
60	1398

WTC - 4

WESTERN TESTING CO., INC.
Pressure Data

Test Ticket No. 16408

Date _____

Recorder No. _____ Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	P.S.I.	Open Tool	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

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

Point Mins.	Press.
P 1	
P 2	
P 3	
P 4	
P 5	
P 6	
P 7	
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

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

Point Minutes	Press.
63	
66	
69	
72	
75	
78	
81	
84	
87	
90	
93	
96	
99	
102	
105	
108	
111	
114	
117	
120	

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

Point Minutes	Press.

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

Point Minutes	Press.
63	1400
66	1402
69	1403
72	1404
75	1405
78	1406
81	1407
84	1408
87	1409
90	1410
93	1411
96	1412
99	
102	
105	
108	
111	
114	
117	
120	

WTC - 4

1565
DST #4

TKT # 16408

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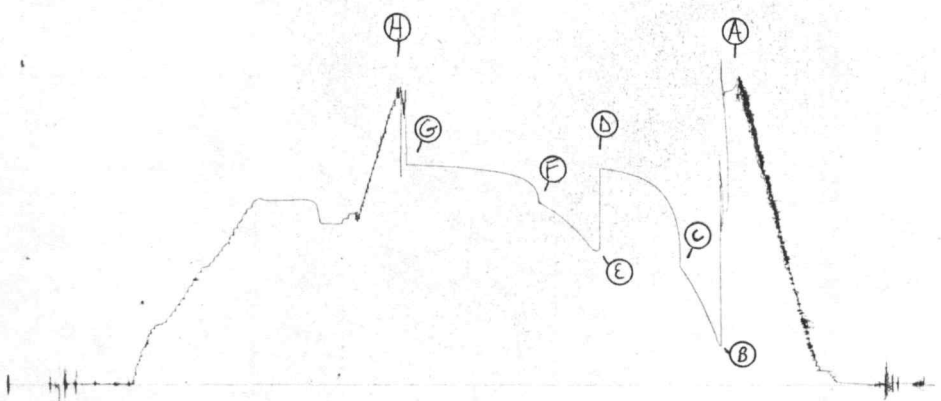

Company Leben Drilling Company | Lease & Well No. #1-A Linnebur

Elevation --- | Formation Lansing | Effective Pay - Ft. | Ticket No. 16408

Date 8/16/82 | Sec. 22 | Twp. 30S | Range 6W | County Kingman | State Kansas

Test Approved by Kenneth Spear | Western Representative Jeff Piotrowski

Formation Test No. 4 | Interval Tested from 3680 ft. to 3701 ft. | Total Depth 3701 ft.

Packer Depth 3675 ft. | Size 6 3/4 in. | Packer Depth - ft. | Size - in.

Packer Depth 3680 ft. | Size 6 3/4 in. | Packer Depth - ft. | Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3691 ft. | Recorder Number 1565 | Cap. 4900

Bottom Recorder Depth (Outside) 3694 ft. | Recorder Number 1560 | Cap. 4500

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

Drilling Contractor Leben Drilling Rig #7 | Drill Collar Length 210 | I. D. 2.2 in.

Mud Type starch | Viscosity 48 | Weight Pipe Length - | I. D. - in.

Weight 9.2 | Water Loss 8.2 cc. | Drill Pipe Length 3450 | I. D. 3.2 in.

Chlorides 33,000 P.P.M. | Test Tool Length 20 ft. | Tool Size 5½OD in.

Jars: Make - | Serial Number - | Anchor Length 21 ft. | Size 5½OD 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 4FH in.

Blow: Strong throughout both flow periods.

Recovered 60 ft. of gas in pipe

Recovered 2490 ft. of gassy water with a few oil specks

Recovered ft. of Chlorides 132,000 ppm

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 10:05 ~~A.M.~~ P.M. | Time Started Off Bottom 1:50 A.M. ~~P.M.~~ | Maximum Temperature 110°

Initial Hydrostatic Pressure			(A) 1873	P.S.I.		
Initial Flow Period	Minutes 30	(B) 260	P.S.I. to	(C) 769	P.S.I.	
Initial Closed In Period	Minutes 60	(D) 1392	P.S.I.			
Final Flow Period	Minutes 45	(E) 875	P.S.I. to	(F) 1177	P.S.I.	
Final Closed In Period	Minutes 96	(G) 1412	P.S.I.			
Final Hydrostatic Pressure			(H) 1864	P.S.I.		

WESTERN TESTING CO., INC.
Pressure Data

Date 8/16/82 Test Ticket No. 16408

Recorder No. 1565 Capacity 4900 Location 3691 Ft.

Clock No. -- Elevation --- Well Temperature 110 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1873 P.S.I.	Open Tool		10:05P M	
B	First Initial Flow Pressure	260 P.S.I.	First Flow Pressure		30 Mins.	30 Mins.
C	First Final Flow Pressure	769 P.S.I.	Initial Closed-in Pressure		60 Mins.	60 Mins.
D	Initial Closed-in Pressure	1392 P.S.I.	Second Flow Pressure		45 Mins.	45 Mins.
E	Second Initial Flow Pressure	875 P.S.I.	Final Closed-in Pressure		90 Mins.	96 Mins.
F	Second Final Flow Pressure	1177 P.S.I.				
G	Final Closed-in Pressure	1412 P.S.I.				
H	Final Hydrostatic Mud	1864 P.S.I.				

PRESSURE BREAKDOWN

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

Point	Mins.	Press.
P 1	0	260
P 2	5	356
P 3	10	465
P 4	15	554
P 5	20	639
P 6	25	710
P 7	30	769
P 8		
P 9		
P10		
P11		
P12		
P13		
P14		
P15		
P16		
P17		
P18		
P19		
P20		

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

Point Minutes	Press.
0	769
3	1074
6	1148
9	1194
12	1229
15	1256
18	1281
21	1299
24	1315
27	1330
30	1337
33	1347
36	1355
39	1364
42	1369
45	1374
48	1378
51	1382
54	1386
57	1389
60	1392

Second Flow Pressure
Breakdown: 9 Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	875
5	885
10	936
15	985
20	1030
25	1068
30	1101
35	1132
40	1159
45	1177

Final Shut-In
Breakdown: 32 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	1177
3	1271
6	1298
9	1317
12	1329
15	1339
18	1346
21	1353
24	1359
27	1364
30	1369
33	1374
36	1377
39	1380
42	1383
45	1386
48	1389
51	1392
54	1394
57	1396
60	1398

CONTINUED NEXT PAGE

WESTERN TESTING CO., INC.
Pressure Data

Date 8/16/82 Test Ticket No. 16408

Recorder No. 1565 Capacity 4900 Location 3691 Ft.

Clock No. -- Elevation --- Well Temperature 110 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1873 P.S.I.	Open Tool	10:05P M	
B First Initial Flow Pressure	260 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	769 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1392 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	875 P.S.I.	Final Closed-in Pressure	90 Mins.	96 Mins.
F Second Final Flow Pressure	1177 P.S.I.			
G Final Closed-in Pressure	1412 P.S.I.			
H Final Hydrostatic Mud	1864 P.S.I.			

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1	
P 2	
P 3	
P 4	
P 5	
P 6	
P 7	
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

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

Point Minutes	Press.

Second Flow Pressure
Breakdown: 9 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.

Final Shut-In
Breakdown: 32 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
63	1400
66	1402
69	1403
72	1404
75	1405
78	1406
81	1407
84	1408
87	1409
90	1410
93	1411
96	1412

WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET № 16409

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

Elevation _____ Formation Miss. Eff. Pay _____ Ft.

District Pratt Date 8-19-82 Customer Order No. _____

COMPANY NAME Leben Drilling Company 105 2 Bkwy Bldg Plaza Bldg
ADDRESS Wichita KS Suite 640

LEASE AND WELL NO. Linneber #1-A COUNTY Kingman STATE KS Sec. 22 Twp. 30s Rge. 6w

Mail Invoice To Same (Co. Name) Address No. Copies Requested Reg

Mail Charts To Same Address No. Copies Requested Reg

Formation Test No. 5 Interval Tested From 4088 ft. to 4109 ft. Total Depth 4109 ft.

Packer Depth 4083 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 4088 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4099 ft. Recorder Number 1565 Cap. 4500

Bottom Recorder Depth (Outside) 4102 ft. Recorder Number 1560 Cap. 4500

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

Drilling Contractor Leben #7

Mud Type Starch Viscosity 42

Weight 9.5 Water Loss 14.0 cc.

Chlorides 32,500 P.P.M.

Jars: Make WTC Serial Number 405

Did Well Flow? NO Reversed Out NO

Drill Collar Length 210 I. D. 2 2 in.

Weight Pipe Length — I. D. — in.

Drill Pipe Length 3849 I. D. 3.2 in.

Test Tool Length 29 ft. Tool Size 5 1/2 OD in.

Anchor Length 21 ft. Size 5 1/2 OD in.

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

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

Blow: Strong G.T.S. 4 min See Gas Flow Report

Recovered 120 ft. of Gas Cut Mud

Recovered _____ ft. of

Recovered _____ ft. of

Recovered _____ ft. of

Recovered _____ ft. of

Remarks: _____

RECEIVED AUG 20 1982

Time On Location 6:00 A.M. / P.M. Time Pick Up Tool 7:30 A.M. / P.M. Time Off Location 4:30 A.M. / P.M.

Time Set Packer(s) 10:02 A.M. / P.M. Time Started Off Bottom 1:47 A.M. / P.M. Maximum Temperature 135°

Initial Hydrostatic Pressure		(A)	2123	P.S.I.		
Initial Flow Period	Minutes 30	(B)	61	P.S.I. to (C)	49	P.S.I.
Initial Closed In Period	Minutes 60	(D)	1458	P.S.I.		
Final Flow Period	Minutes 45	(E)	37	P.S.I. to (F)	37	P.S.I.
Final Closed In Period	Minutes 90	(G)	1458	P.S.I.		
Final Hydrostatic Pressure		(H)	2123	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 Robert L Layman
Signature of Customer or his authorized representative

Western Representative Jeff Piotrowski

Thank You

FIELD INVOICE

Open Hole Test	$ 675.00
Misrun	$
Straddle Test	$
Jars	$ 300.00
Selective Zone	$
Safety Joint	$ 65.00
Standby	$
Evaluation	$
Extra Packer	$
Circ. Sub.	$
Mileage	$
Fluid Sampler	$
Extra Charts	$
Insurance	$
Telecopier	$
TOTAL	$ 1040.00

Phone 316 262-5861

WESTERN TESTERS

P. O. Box 1599

WICHITA, KANSAS 67201

GAS FLOW REPORT

No 4053

Date 8-19-82 Ticket 16409 Company Leben Drilling Co

Well Name and No. Linneber #1-A Dst No. 5 Interval Tested 4088-4109

County Kingman State KS Sec. 22 Twp. 30S Rg. 6W

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
			PRE FLOW		GTS 4 min
10	3 PSIG	3/4			133,000 cfpd
20	3				
25	3				
			SECOND FLOW		
10	3 PSIG	3/4			133,000 cfpd
20					
30					
40					
45				OK	

GAS BOTTLE

Serial No. WTC 86 Date Bottle Filled 8-19-82 Date to be Invoiced 8-19-82

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of $75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1½% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Leben Drilling Co.

Authorized by Robert L Laymon

FORM WTC 9

WESTERN TESTING CO., INC.
Pressure Data

Date 8-19 Test Ticket No. 16409

Recorder No. 1565 Capacity 4900 Location 4099 Ft.

Clock No. — — — — Elevation _____ Well Temperature 135 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2121	P.S.I.	Open Tool	10:00 AM	
B	First Initial Flow Pressure	58	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	58	P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D	Initial Closed-in Pressure	1472	P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E	Second Initial Flow Pressure	36	P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F	Second Final Flow Pressure	36	P.S.I.			
G	Final Closed-in Pressure	1469	P.S.I.			
H	Final Hydrostatic Mud	2121	P.S.I.			

PRESSURE BREAKDOWN

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

Point	Mins.	Press.
P 1	0	58
P 2	5	
P 3	10	
P 4	15	
P 5	20	
P 6	25	
P 7	30	58
P 8	35	
P 9	40	
P10	45	
P11	50	
P12	55	
P13	60	
P14		
P15		
P16		
P17		
P18		
P19		
P20		

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

Point Minutes	Press.
0	58
3	847
6	1084
9	1209
12	1281
15	1325
18	1361
21	1386
24	1403
27	1418
30	1429
33	1436
36	1443
39	1450
42	1455
45	1460
48	1464
51	1466
54	1468
57	1470
60	1472

Second Flow Pressure
Breakdown: 9 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	36
5	
10	
15	
20	
25	
30	
35	
40	
45	36
50	
55	
60	
65	
70	
75	
80	
85	
90	

Final Shut-In
Breakdown: 30 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	36
3	530
6	869
9	1057
12	1167
15	1236
18	1283
21	1320
24	1344
27	1366
30	1382
33	1396
36	1405
39	1414
42	1423
45	1429
48	1435
51	1439
54	1443
57	1447
60	1451

cont

WTC - 4

WESTERN TESTING CO., INC.
Pressure Data

Date _____ Test Ticket No. _____

Recorder No. _____ Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	P.S.I.	Open Tool	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

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

Point Mins.	Press.
P 1	
P 2	
P 3	
P 4	
P 5	
P 6	
P 7	
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

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

Point Minutes	Press.
63	
66	
69	
72	
75	
78	
81	
84	
87	
90	
93	
96	
99	
102	
105	
108	
111	
114	
117	
120	

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

Point Minutes	Press.

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

Point Minutes	Press.
63	1454
66	1457
69	1459
72	1461
75	1463
78	1465
81	1466
84	1467
87	1468
90	1469
93	
96	
99	
102	
105	
108	
111	
114	
117	
120	

WTC - 4

DST #5

TKT # 16409

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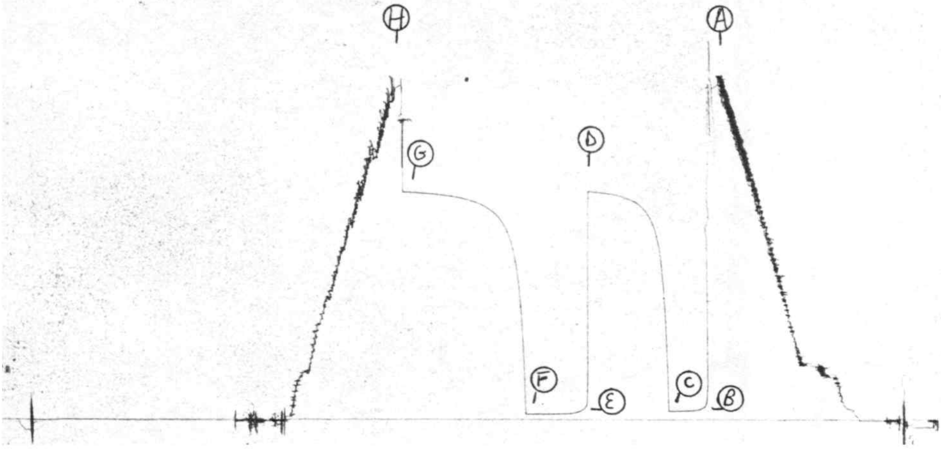


Company Leben Drilling Company | Lease & Well No. #1"A" Linnebur

Elevation =- | Formation Mississippi | Effective Pay -- Ft. | Ticket No. 16409

Date 8/19/82 | Sec. 22 | Twp. 30S | Range 6W | County Kingman | State Kansas

Test Approved by Rbert L. Layman | Western Representative Jeff Piotrowski

Formation Test No. 5 | Interval Tested from 4088 ft. to 4109 ft. | Total Depth 4109 ft.

Packer Depth 4083 ft. | Size 6 3/4 in. | Packer Depth - ft. | Size - in.

Packer Depth 4088 ft. | Size 6 3/4 in. | Packer Depth - ft. | Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4099 ft. | Recorder Number 1565 | Cap. 4900

Bottom Recorder Depth (Outside) 4102 ft. | Recorder Number 1560 | Cap. 4500

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

Drilling Contractor Leben Drilling Rig #7 | Drill Collar Length 210 | I. D. 2.2 in.

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

Weight 9.5 | Water Loss 14.0 cc. | Drill Pipe Length 3849 | I. D. 3.2 in.

Chlorides 32,500 P.P.M. | Test Tool Length 29 ft. | Tool Size 5½OD in.

Jars: Make WTC | Serial Number 405 | Anchor Length 21 ft. | Size 5½OD 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"FH in.

Blow: Strong blow. Gas to surface in four minutes. See attached sheet for gas measurements.

Recovered 120 ft. of gas cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 10:02 ~~A.M.~~ ~~P.M.~~ | Time Started Off Bottom 1:47 ~~A.M.~~ P.M. | Maximum Temperature 135°

Initial Hydrostatic Pressure		(A) 2121 P.S.I.		
Initial Flow Period	Minutes 30	(B) 58 P.S.I.	to (C) 58 P.S.I.	
Initial Closed In Period	Minutes 60	(D) 1472 P.S.I.		
Final Flow Period	Minutes 45	(E) 36 P.S.I.	to (F) 36 P.S.I.	
Final Closed In Period	Minutes 90	(G) 1469 P.S.I.		
Final Hydrostatic Pressure		(H) 2121 P.S.I.		

GAS FLOW REPORT

Date 8/19/82 Ticket 16409 Company Leben Drilling Company

Well Name and No. #1 "A"Linnebur Dst No. 5 Interval Tested 4088'-4109'

County Kingman State Kansas Sec. 22 Twp. 30S Rg. 6W

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
Gas to surface in four mintues.			**PRE FLOW**		
10 min.	3.0 PISG		3/4" orifice		133,000 CFPD
20 min.	3.0 PSIG		3/4" orifice		133,000 CFPD
25 min.	3.0 PSIG		3/4" orifice		133,000 CFPD
			SECOND FLOW		
10 min.	3,0 PSIG		3/4" orifice		133,000 CFPD
20 min.	3.0 PSIG		3/4" orifice		133,000 CFPD
30 min.	3.0 PSIG		3/4" orifice		133,000 CFPD
40 min.	3.0 PSIG		3/4" orifice		133,000 CFPD
45 min.	3.0 PSIG		3/4" orifice		133,000 CFPD

GAS BOTTLE

Serial No. WTC 86 Date Bottle Filled 8/19/82 Date to be Invoiced 8/19/82

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of $75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1½% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Leben Drilling Company

Authorized by Robert L. Layman

FORM WTC 6

WESTERN TESTING CO., INC.

Pressure Data

Date 8/19/82 Test Ticket No. 16409

Recorder No. 1565 Capacity 4900 Location 4099 Ft.

Clock No. -- Elevation -- Well Temperature 135 °F

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	2121 P.S.I.	Open Tool	10:02A M	
B	First Initial Flow Pressure	58 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	58 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D	Initial Closed-in Pressure	1472 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E	Second Initial Flow Pressure	36 P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F	Second Final Flow Pressure	36 P.S.I.			
G	Final Closed-in Pressure	1469 P.S.I.			
H	Final Hydrostatic Mud	2121 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: 9 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 30 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	58	0	58	0	36	0	36
P 2 5	58	3	847	5	36	3	530
P 3 10	58	6	1084	10	36	6	869
P 4 15	58	9	1209	15	36	9	1057
P 5 20	58	12	1281	20	36	12	1167
P 6 25	58	15	1325	25	36	15	1236
P 7 30	58	18	1361	30	36	18	1283
P 8		21	1386	35	36	21	1320
P 9		24	1403	40	36	24	1344
P10		27	1418	45	36	27	1366
P11		30	1429			30	1382
P12		33	1436			33	1396
P13		36	1443			36	1405
P14		39	1450			39	1414
P15		42	1455			42	1423
P16		45	1460			45	1429
P17		48	1464			48	1435
P18		51	1466			51	1439
P19		54	1468			54	1443
P20		57	1470			57	1447
		60	1472			60	1451

CONTINUED NEXT PAGE

WESTERN TESTING CO., INC.
Pressure Data

Date 8/19/82 Test Ticket No. 16409

Recorder No. 1565 Capacity 4900 Location 4099 Ft.

Clock No. -- Elevation -- Well Temperature 135 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2121 P.S.I.	Open Tool	10:02A M	
B First Initial Flow Pressure	58 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	58 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1472 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	36 P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F Second Final Flow Pressure	36 P.S.I.			
G Final Closed-in Pressure	1469 P.S.I.			
H Final Hydrostatic Mud	2121 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: 9 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 30 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						63	1454
P 2						66	1457
P 3						69	1459
P 4						72	1461
P 5						75	1463
P 6						78	1465
P 7						81	1466
P 8						84	1467
P 9						87	1468
P10						90	1469
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

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

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET № 16159

Elevation 1396 K.B. Formation Simpson Eff. Pay ____ Ft.

District Pratt Date 8-21-82 Customer Order No. ____

COMPANY NAME Laban Drilling Company
ADDRESS 105 S. Bdwy. Bdwy Plaza Bldg, Suite 640-Wichita, Ks 67202
LEASE AND WELL NO. Linebur #1-A COUNTY Kingman STATE KS Sec. 22 Twp. 30S Rge. 6W
Mail Invoice To Linnebur 1-A (Co. Name) Address ____ No. Copies Requested ____
Mail Charts To ____ Address ____ No. Copies Requested ____

Formation Test No. 6 Interval Tested From 4463 ft. to 4485 ft. Total Depth ~~4485~~ 4485 ft.
Packer Depth 4458 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.
Packer Depth 4463 ft. Size 6 5/8 in. Packer Depth ____ ft. Size ____ in.
Depth of Selective Zone Set —

Top Recorder Depth (Inside) 4466 ft. Recorder Number 13267 Cap. 4050
Bottom Recorder Depth (Outside) 4469 ft. Recorder Number 1051 Cap. 4250
Below Straddle Recorder Depth — ft. Recorder Number — Cap. —

Drilling Contractor LEBEN 7 Drill Collar Length 215 I. D. 2.26 in.
Mud Type Starch Viscosity 43 Weight Pipe Length — I. D. — in.
Weight 9.7 Water Loss 14.8 cc. Drill Pipe Length 4255 I. D. 3.0 in.
Chlorides 32,500 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 O.D. in.
Jars: Make — Serial Number — Anchor Length 22 ft. Size 5 1/2 O.D. in.
Did Well Flow? YES 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" F-Hole in.

Blow: IFP. - GTS in 6 min.
FFP - GASSY MUD For 10 min. FLOW CHART # 3948

Recovered 3990 ft. of Gassy Salt water 61,000 P.P.M. Chlorides
Recovered ____ ft. of ____
Recovered ____ ft. of ____
Recovered ____ ft. of ____
Recovered ____ ft. of ____
Remarks: ____

Time On Location 8:00 ~~A.M.~~ (P.M. circled) Time Pick Up Tool 11:10 (P.M. circled) Time Off Location 1:00 (P.M. circled)
Time Set Packer(s) 1:55 (A.M. circled) Time Started Off Bottom 5:40 (A.M. circled) Maximum Temperature 139 °F

Initial Hydrostatic Pressure		(A) 2327 P.S.I.		
Initial Flow Period	Minutes 30	(B) 871 P.S.I.	to (C) 1655 P.S.I.	
Initial Closed In Period	Minutes 60	(D) 1685 P.S.I.		
Final Flow Period	Minutes 45	(E) 1624 P.S.I.	to (F) 1655 P.S.I.	
Final Closed In Period	Minutes 90	(G) 1665 P.S.I.		
Final Hydrostatic Pressure		(H) 2327 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 Jerry Smith
Signature of Customer or his authorized representative

Western Representative Karl West Jr.

FIELD INVOICE

Item	Amount
Open Hole Test	$ 675.00
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Standby	$
Evaluation	$
Extra Packer	$ 35.00
Circ. Sub.	$
Mileage	$
Fluid Sampler	$
Extra Charts	$
Insurance	$
Telecopier	$
TOTAL	$ 710.00

Phone 316 262-5861

P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

Nº 3948

Date 8-22-82 Ticket 16158 Company LEBEN DRILLING, CO.

Well Name and No. Lindsay #1-A Dst No. 6 Interval Tested 4463-4485

County Kingman State KS Sec. 22 Twp. 30S Rg. 6W

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
PRE FLOW					
6	1.5 PDG	½ ok.			41,000 C.F./DAY
10	3	¼			15,700
20	6	¼			22,900
30	8	¼		ok	27,000
SECOND FLOW					
10	" water				FLUID (GASSY MUD)
20	1.0 I.H2O	¼		ok	1,680 C.F./DAY
30	4.0	¼		ok	3,370
40	5.0	¼		ok	3,710
45	4.0	¼		ok	3,370

GAS BOTTLE

Serial No. 15759 Date Bottle Filled 8-22-82 Date to be Invoiced

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of $75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1½% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME LEBEN Drilling Co.

Authorized by Jerry Sachs

FORM WTC 9

WESTERN TESTING CO., INC.
Pressure Data

Date 8-21 | Test Ticket No. 16159

Recorder No. 13267 | Capacity 4050 | Location 4466 Ft.

Clock No. — — — — | Elevation 1396 KB | Well Temperature 139 °F

Point		Pressure	
A	Initial Hydrostatic Mud	2356	P.S.I.
B	First Initial Flow Pressure	882	P.S.I.
C	First Final Flow Pressure	1643	P.S.I.
D	Initial Closed-in Pressure	1687	P.S.I.
E	Second Initial Flow Pressure	1644	P.S.I.
F	Second Final Flow Pressure	1667	P.S.I.
G	Final Closed-in Pressure	1673	P.S.I.
H	Final Hydrostatic Mud	2348	P.S.I.

	Time Given	Time Computed
Open Tool	1:55 AM	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	60 Mins.	60 Mins.
Second Flow Pressure	45 Mins.	45 Mins.
Final Closed-in Pressure	90 Mins.	84 Mins.

PRESSURE BREAKDOWN

First Flow Pressure

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

Point	Mins.	Press.
P 1	0	882
P 2	5	949
P 3	10	1180
P 4	15	1396
P 5	20	1524
P 6	25	1620
P 7	30	1643
P 8	35	
P 9	40	
P10	45	
P11	50	
P12	55	
P13	60	
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In

Breakdown: 20 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	1643
3	1647
6	1650
9	1653
12	1656
15	1659
18	1660
21	1661
24	1662
27	1663
30	1664
33	
36	
39	
42	
45	1664
48	
51	
54	1664
57	1669
60	1687

Second Flow Pressure

Breakdown: 9 Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	1644
5	1644
10	1650
15	1659
20	1661
25	1663
30	1665
35	1666
40	1667
45	1667
50	
55	
60	
65	
70	
75	
80	
85	
90	

Final Shut-In

Breakdown: 28 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	1667
3	1668
6	1669
9	1670
12	1671
15	1672
18	1673
21	
24	
27	
30	1673
33	
36	
39	
42	
45	1673
48	
51	
54	
57	
60	1673

cont

WTC - 4

WESTERN TESTING CO., INC.
Pressure Data

Date _____ Test Ticket No. 16159

Recorder No. _____ Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	P.S.I.	Open Tool	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.			

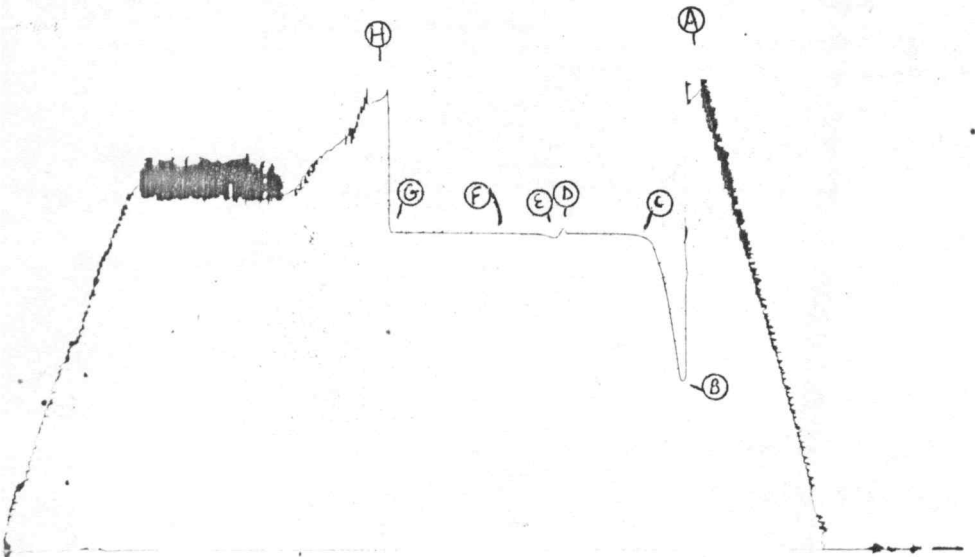
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: ____ Inc.		Breakdown: ____ Inc.		Breakdown: ____ Inc.		Breakdown: ____ Inc.	
of 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 mins. and a	
final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1		63				63	1673
P 2		66				66	
P 3		69				69	
P 4		72				72	
P 5		75				75	1673
P 6		78				78	
P 7		81				81	
P 8		84				84	1673
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				120	

WTC - 4

TKT # 16159

I



Company Leben Drilling Company | Lease & Well No. #1-A Linnebur

Elevation 1396 Kelly Bushing | Formation Simpson | Effective Pay - Ft. | Ticket No. 16159

Date 8/21/82 | Sec. 22 | Twp. 30S | Range 6W | County Kingman | State Kansas

Test Approved by Jerry Hicks | Western Representative Karl West, Jr.

Formation Test No. 6 | Interval Tested from 4463 ft. to 4485 ft. | Total Depth 4485 ft.

Packer Depth 4458 ft. | Size 6 5/8 in. | Packer Depth - ft. | Size - in.

Packer Depth 4463 ft. | Size 6 5/8 in. | Packer Depth - ft. | Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4466 ft. | Recorder Number 13267 | Cap. 4050

Bottom Recorder Depth (Outside) 4469 ft. | Recorder Number 1051 | Cap. 4250

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

Drilling Contractor Leben Drlg. Rig #7 | Drill Collar Length 215 | I. D. 2.26 in.

Mud Type starch | Viscosity 43 | Weight Pipe Length - | I. D. - in.

Weight 9.7 | Water Loss 14.8 cc. | Drill Pipe Length 4255 | I. D. 3.0 in.

Chlorides 32,500 P.P.M. | Test Tool Length 20 ft. | Tool Size 5½OD in.

Jars: Make - | Serial Number - | Anchor Length 22 ft. | Size 5½OD in.

Did Well Flow? Yes | 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" FH in.

Blow: Initial flow period gas to surface in six minutes. Gassy mud for ten minutes on final flow period. See attached sheet for gas measurements.

Recovered 3990 ft. of gassy salt water Chlorides 61,000 ppm

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 1:55 A.M. P.M. | Time Started Off Bottom 5:40 A.M. P.M. | Maximum Temperature 139°

Initial Hydrostatic Pressure			(A) 2356	P.S.I.		
Initial Flow Period	Minutes 30	(B) 882	P.S.I. to	(C) 1643	P.S.I.	
Initial Closed In Period	Minutes 60	(D) 1687	P.S.I.			
Final Flow Period	Minutes 45	(E) 1644	P.S.I. to	(F) 1667	P.S.I.	
Final Closed In Period	Minutes 84	(G) 1673	P.S.I.			
Final Hydrostatic Pressure			(H) 2348	P.S.I.		

GAS FLOW REPORT

Date 8/22/82 Ticket 16158 Company Leben Drilling Company

Well Name and No. Linnebur #1-A Dst No. 6 Interval Tested 4463'-4485'

County Kingman State Kansas Sec. 22 Twp. 30S Rg. 6W

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
PRE FLOW					
6 min.	1.5 PSIG		1/2" orifice		41,000 CFPD
10 min.	3.0 PSIG		1/4" orifice		15,700 CFPD
20 min.	6.0 PSIG		1/4" orifice		22,900 CFPD
30 min.	8.0 PSIG		1/4" orifice		27,000 CFPD
SECOND FLOW					
10 min.					Fluid (Gassy mud)
20 min.	1.0 "	of water	1/4" orifice		1,680 CFPD
30 min.	4.0 "	of water	1/4" orifice		3,370 CFPD
40 min.	5.0 "	of water	1/4" orifice		3,710 CFPD
45 min.	4.0 "	of water	1/4" orifice		3,370 CFPD

GAS BOTTLE

Serial No. 15759 Date Bottle Filled 8/22/82 Date to be Invoiced 8/22/82

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of $75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1½% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Leben Drilling Company

Authorized by Jerry Hicks

FORM WTC 6

WESTERN TESTING CO., INC.
Pressure Data

Date 8/21/82 Test Ticket No. 16159

Recorder No. 13267 Capacity 4050 Location 4466 Ft.

Clock No. - Elevation 1396 Kelly Bushing Well Temperature 139 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2356 P.S.I.		Open Tool	1:55A M	
B	First Initial Flow Pressure	882 P.S.I.		First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	1643 P.S.I.		Initial Closed-in Pressure	60 Mins.	60 Mins.
D	Initial Closed-in Pressure	1687 P.S.I.		Second Flow Pressure	45 Mins.	45 Mins.
E	Second Initial Flow Pressure	1644 P.S.I.		Final Closed-in Pressure	90 Mins.	84 Mins.
F	Second Final Flow Pressure	1667 P.S.I.				
G	Final Closed-in Pressure	1673 P.S.I.				
H	Final Hydrostatic Mud	2348 P.S.I.				

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 6 Inc.		Breakdown: 20 Inc.		Breakdown: 9 Inc.		Breakdown: 28 Inc.	
of 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 mins. and a	
final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	882	0	1643	0	1644	0	1667
P 2 5	949	3	1647	5	1644	3	1668
P 3 10	1180	6	1650	10	1650	6	1669
P 4 15	1396	9	1653	15	1659	9	1670
P 5 20	1524	12	1656	20	1661	12	1671
P 6 25	1620	15	1659	25	1663	15	1672
P 7 30	1643	18	1660	30	1665	18	1673
P 8		21	1661	35	1666	21	1673
P 9		24	1662	40	1667	24	1673
P10		27	1663	45	1667	27	1673
P11		30	1664			30	1673
P12		33	1664			33	1673
P13		36	1664			36	1673
P14		39	1664			39	1673
P15		42	1664			42	1673
P16		45	1664			45	1673
P17		48	1664			48	1673
P18		51	1664			51	1673
P19		54	1664			54	1673
P20		57	1669			57	1673
WTC - 4		60	1687			60	1673

CONTINUED

WESTERN TESTING CO., INC.
Pressure Data

Date 8/21/82 Test Ticket No. 16159

Recorder No. 13267 Capacity 4050 Location 4466 Ft.

Clock No. - Elevation 1396 Kelly Bushing Well Temperature 139 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2356	P.S.I.	Open Tool	1:55A M	
B	First Initial Flow Pressure	882	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	1643	P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D	Initial Closed-in Pressure	1687	P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E	Second Initial Flow Pressure	1644	P.S.I.	Final Closed-in Pressure	90 Mins.	84 Mins.
F	Second Final Flow Pressure	1667	P.S.I.			
G	Final Closed-in Pressure	1673	P.S.I.			
H	Final Hydrostatic Mud	2348	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: 9 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 28 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						63	1673
P 2						66	1673
P 3						69	1673
P 4						72	1673
P 5						75	1673
P 6						78	1673
P 7						81	1673
P 8						84	1673
P 9							
P10							
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							