

Company Leben Drilling Company Lease & Well No. #1 'A' Kinzie
 Elevation - Formation Lansing Effective Pay - Ft. Ticket No. 16401
 Date 8/6/82 Sec. 23 Twp. 29S Range 13W County Pratt State Kansas
 Test Approved by Robert Laymon Western Representative Jeff Piotrowski

Formation Test No. 1 Interval Tested from 4031 ft. to 4081 ft. Total Depth 4081 ft.
 Packer Depth 4026 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4031 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4071 ft. Recorder Number 1565 Cap. 4900
 Bottom Recorder Depth (Outside) 4074 ft. Recorder Number 1560 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Leben Drilling Rig #11 Drill Collar Length 150 I. D. 2.2 in.
 Mud Type Drispac Viscosity 37 Weight Pipe Length - I. D. - in.
 Weight 9.4 Water Loss 15.8 cc. Drill Pipe Length 3861 I. D. 3.2 in.
 Chlorides 27,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 50 ft. Size 5 1/2 OD in.
 Did Well Flow? No Reversed Out Yes Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4FH in.

Blow: Strong throughout test.

Recovered 1880 ft. of water Chlorides 87,000 PPM
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 9:00 ~~A.M.~~ P.M. Time Started Off Bottom 12:00 ~~A.M.~~ P.M. Maximum Temperature 122
 Initial Hydrostatic Pressure 1990 P.S.I. (A)
 Initial Flow Period 30 Minutes (B) 169 P.S.I. to (C) 590 P.S.I.
 Initial Closed In Period 60 Minutes (D) 1480 P.S.I.
 Final Flow Period 30 Minutes (E) 683 P.S.I. to (F) 896 P.S.I.
 Final Closed In Period 60 Minutes (G) 1479 P.S.I.
 Final Hydrostatic Pressure 1963 P.S.I. (H)

WESTERN TESTING CO., INC.
Pressure Data

Date 8/6/82 Test Ticket No. 16401
 Recorder No. 1565 Capacity 4900 Location 4071 Ft.
 Clock No. - Elevation - Well Temperature 122 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1990 P.S.I.	Open Tool	9:00P	M
B First Initial Flow Pressure	169 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	590 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1480 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	683 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	896 P.S.I.			
G Final Closed-in Pressure	1479 P.S.I.			
H Final Hydrostatic Mud	1963 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: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

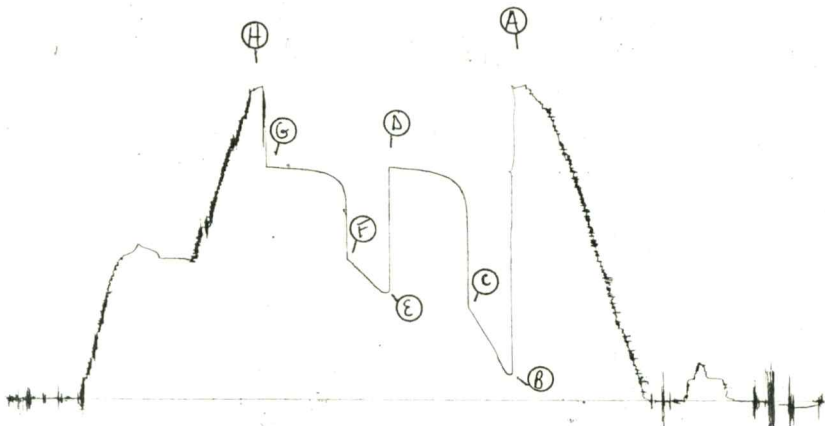
Final Shut-In
 Breakdown: 20 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1	0	169	0	590	0	683	0	896
P 2	5	189	3	1167	5	688	3	1326
P 3	10	267	6	1315	10	725	6	1384
P 4	15	356	9	1362	15	770	9	1406
P 5	20	429	12	1388	20	812	12	1421
P 6	25	496	15	1407	25	854	15	1436
P 7	30	590	18	1421	30	896	18	1446
P 8			21	1430			21	1451
P 9			24	1438			24	1456
P10			27	1446			27	1459
P11			30	1453			30	1463
P12			33	1454			33	1464
P13			36	1462			36	1465
P14			39	1466			39	1468
P15			42	1468			42	1469
P16			45	1469			45	1470
P17			48	1474			48	1472
P18			51	1475			51	1473
P19			54	1476			54	1475
P20			57	1479			57	1477
			60	1480			60	1479

1565
DST #1

TRT # 16401

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

Elevation - Formation - Effective Pay - Ft. Ticket No. 16402

Date 8/8/82 Sec. 23 Twp. 29S Range 13W County Pratt State Kansas

Test Approved by Bob Laymon Western Representative Jeff Piotrowski

Formation Test No. 2 Interval Tested from 4377 ft. to 4408 ft. Total Depth 4408 ft.

Packer Depth 4372 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4377 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4398 ft. Recorder Number 1565 Cap. 4900

Bottom Recorder Depth (Outside) 4401 ft. Recorder Number 1560 Cap. 4500

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

Drilling Contractor Leben Rig #11 Drill Collar Length 150 I. D. 2.2 in.

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

Weight 9.6 Water Loss 12.0 cc. Drill Pipe Length 4207 I. D. 3.2 in.

Chlorides 28,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.

Jars: Make - Serial Number - Anchor Length 31 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 4FH in.

Blow: Strong - gas to surface in 25 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) 5:10 ~~A.M.~~ P.M. Time Started Off Bottom 8:55 ~~A.M.~~ P.M. Maximum Temperature 124

Initial Hydrostatic Pressure 2172 P.S.I. (A)

Initial Flow Period 30 Minutes (B) 37 P.S.I. to (C) 37 P.S.I.

Initial Closed In Period 60 Minutes (D) 1556 P.S.I.

Final Flow Period 45 Minutes (E) 45 P.S.I. to (F) 51 P.S.I.

Final Closed In Period 90 Minutes (G) 1559 P.S.I.

Final Hydrostatic Pressure 2160 P.S.I. (H)

GAS FLOW REPORT

Date 8/8/82 Ticket 16402 Company Leben Drilling Company
 Well Name and No. #1 "A" Kinzie Dst No. 2 Interval Tested 4377-4408
 County Pratt State Kansas Sec. 23 Twp. 29S Rg. 13W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
Gas to surface in 25 minutes. PRE FLOW						
	30 Min	4.0 PSIG	¼" Orifice			18,500 C.F.P.D.

SECOND FLOW						
	10 Min	2.0 PSIG	¼" Orifice			12,700 C.F.P.D.
	20 Min	4.0 PSIG	¼" Orifice			18,500 C.F.P.D.
	30 Min	6.0 PSIG	¼" Orifice			22,900 C.F.P.D.
	40 Min	6.0 PSIG	¼" Orifice			22,900 C.F.P.D.
	45 Min	6.0 PSIG	¼" Orifice			22,900 C.F.P.D.

GAS BOTTLE

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

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

COMPANY'S NAME Leben Drilling Company
 Authorized by Robert Laymon

WESTERN TESTING CO., INC.
Pressure Data

Date 8/8/82

Test Ticket No. 16402

Recorder No. 1565

Capacity 4900

Location 4398 Ft.

Clock No. - Elevation -

Well Temperature 124 °F

Point	Pressure			Time	
				Given	Computed
A. Initial Hydrostatic Mud	<u>2172</u> P.S.I.	Open Tool		<u>5:10P</u>	<u>M</u>
B. First Initial Flow Pressure	<u>37</u> P.S.I.	First Flow Pressure		<u>30</u> Mins.	<u>30</u> Mins.
C. First Final Flow Pressure	<u>37</u> P.S.I.	Initial Closed-in Pressure		<u>60</u> Mins.	<u>60</u> Mins.
D. Initial Closed-in Pressure	<u>1556</u> P.S.I.	Second Flow Pressure		<u>45</u> Mins.	<u>45</u> Mins.
E. Second Initial Flow Pressure	<u>45</u> P.S.I.	Final Closed-in Pressure		<u>90</u> Mins.	<u>90</u> Mins.
F. Second Final Flow Pressure	<u>51</u> P.S.I.				
G. Final Closed-in Pressure	<u>1559</u> P.S.I.				
H. Final Hydrostatic Mud	<u>2160</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: 9 Inc.
of 5 mins. and a
final inc. of 0 Min.

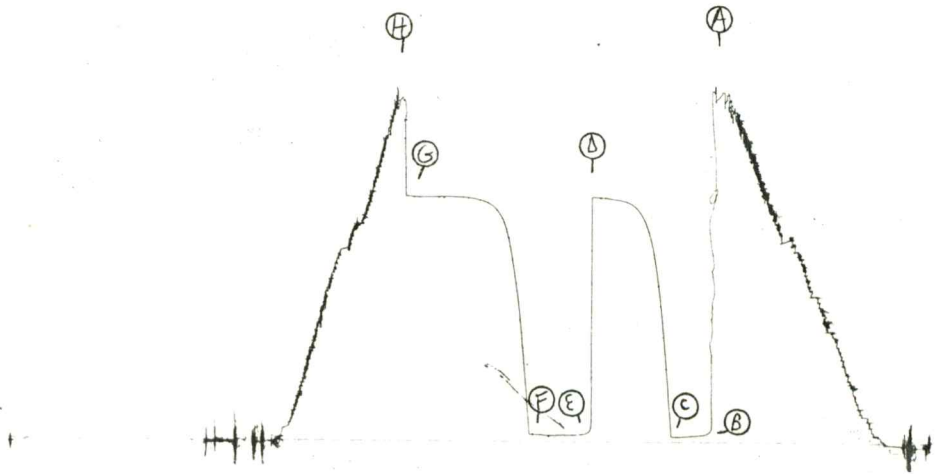
Final Shut-In
Breakdown: 30 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1							<u>63</u>	<u>1558</u>
P 2							<u>66</u>	<u>1559</u>
P 3							<u>69</u>	<u>1559</u>
P 4							<u>72</u>	<u>1559</u>
P 5							<u>75</u>	<u>1559</u>
P 6							<u>78</u>	<u>1559</u>
P 7							<u>81</u>	<u>1559</u>
P 8							<u>84</u>	<u>1559</u>
P 9							<u>87</u>	<u>1559</u>
P10							<u>90</u>	<u>1559</u>
P11								
P12								
P13								
P14								
P15								
P16								
P17								
P18								
P19								
P20								

156 S
D57°2

TKT # 16402

I



Company Leben Drilling Company Lease & Well No. #1 "A" Kinzie
 Elevation - Formation Viola Effective Pay - Ft. Ticket No. 16403
 Date 8/9/82 Sec. 23 Twp. 29S Range 13W County Pratt State Kansas
 Test Approved by Bob Laymon Western Representative Jeff Piotrowski

Formation Test No. 3 Interval Tested from 4420 ft. to 4500 ft. Total Depth 4500 ft.
 Packer Depth 4415 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4420 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4423 ft. Recorder Number 1565 Cap. 4900
 Bottom Recorder Depth (Outside) 4426 ft. Recorder Number 1560 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Leben Rig #11 Drill Collar Length 150 I. D. 2.2 in.
 Mud Type Drispac Viscosity 43 Weight Pipe Length - I. D. - in.
 Weight 9.4 Water Loss 12.8 cc. Drill Pipe Length 4250 I. D. 3.2 in.
 Chlorides 28,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 80 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 4FH in.

Blow: Strong. Gas to surface in 5 minutes. See attached sheet for gas measurements.

Recovered 150 ft. of gas cut mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 5:00 ~~A.M.~~ P.M. Time Started Off Bottom 8:45 ~~A.M.~~ P.M. Maximum Temperature 124
 Initial Hydrostatic Pressure 2160 P.S.I. (A)
 Initial Flow Period 35 Minutes (B) 77 P.S.I. to (C) 77 P.S.I.
 Initial Closed In Period 60 Minutes (D) 1573 P.S.I.
 Final Flow Period 45 Minutes (E) 49 P.S.I. to (F) 56 P.S.I.
 Final Closed In Period 90 Minutes (G) 1570 P.S.I.
 Final Hydrostatic Pressure 2106 P.S.I. (H)

GAS FLOW REPORT

Date 8/9/82 Ticket 16403 Company Leben Drilling Company
 Well Name and No. #1 "A" Kinzie Dst No. 3 Interval Tested 4420-4500
 County Pratt State Kansas Sec. 23 Twp. 29S Rg. 13@

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
PRE FLOW						
Gas to surface in 5 minutes						
	10 Min	2.5 PSIG	3/4" Orifice			121,000 C.F.P.D.
	20 Min	3.0 PSIG	3/4" Orifice			133,000 C.F.P.D.
	30 Min	3.0 PSIG	3/4" Orifice			133,000 C.F.P.D.

SECOND FLOW						
	10 Min	3.0 PSIG	3/4" Orifice			133,000 C.F.P.D.
	20 Min	3.0 PSIG	3/4" Orifice			133,000 C.F.P.D.
	30 Min	3.0 PSIG	3/4" Orifice			133,000 C.F.P.D.
	40 Min	3.0 PSIG	3/4" Orifice			133,000 C.F.P.D.
	45 Min	3.0 PSIG	3/4" Orifice			133,000 C.F.P.D.

GAS BOTTLE

Serial No. - Date Bottle Filled - Date to be Invoiced 8/9/82

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

COMPANY'S NAME Leben Drilling Company
 Authorized by Bob Laymon

WESTERN TESTING CO., INC.
Pressure Data

Date 8/9/82

Test Ticket No. 16403

Recorder No. 1565 Capacity 4900 Location 4423 Ft.

Clock No. - Elevation - Well Temperature 124 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2160</u>	P.S.I.	<u>5:00P</u>	<u>M</u>
B First Initial Flow Pressure	<u>77</u>	P.S.I.	<u>30</u>	<u>Mins. 35</u> Mins.
C First Final Flow Pressure	<u>77</u>	P.S.I.	<u>60</u>	<u>Mins. 60</u> Mins.
D Initial Closed-in Pressure	<u>1573</u>	P.S.I.	<u>45</u>	<u>Mins. 45</u> Mins.
E Second Initial Flow Pressure	<u>49</u>	P.S.I.	<u>90</u>	<u>Mins. 90</u> Mins.
F Second Final Flow Pressure	<u>56</u>	P.S.I.		
G Final Closed-in Pressure	<u>1570</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2106</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 7 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	<u>77</u>	<u>0</u>	<u>77</u>	<u>0</u>	<u>49</u>	<u>0</u>	<u>56</u>
P 2 5	<u>77</u>	<u>3</u>	<u>341</u>	<u>5</u>	<u>49</u>	<u>3</u>	<u>735</u>
P 3 10	<u>77</u>	<u>6</u>	<u>757</u>	<u>10</u>	<u>49</u>	<u>6</u>	<u>1076</u>
P 4 15	<u>77</u>	<u>9</u>	<u>1113</u>	<u>15</u>	<u>49</u>	<u>9</u>	<u>1303</u>
P 5 20	<u>77</u>	<u>12</u>	<u>1357</u>	<u>20</u>	<u>49</u>	<u>12</u>	<u>1445</u>
P 6 25	<u>77</u>	<u>15</u>	<u>1480</u>	<u>25</u>	<u>49</u>	<u>15</u>	<u>1512</u>
P 7 30	<u>77</u>	<u>18</u>	<u>1530</u>	<u>30</u>	<u>50</u>	<u>18</u>	<u>1537</u>
P 8 35	<u>77</u>	<u>21</u>	<u>1551</u>	<u>35</u>	<u>52</u>	<u>21</u>	<u>1547</u>
P 9		<u>24</u>	<u>1561</u>	<u>40</u>	<u>54</u>	<u>24</u>	<u>1553</u>
P10		<u>27</u>	<u>1564</u>	<u>45</u>	<u>56</u>	<u>27</u>	<u>1555</u>
P11		<u>30</u>	<u>1566</u>			<u>30</u>	<u>1557</u>
P12		<u>33</u>	<u>1567</u>			<u>33</u>	<u>1559</u>
P13		<u>36</u>	<u>1568</u>			<u>36</u>	<u>1561</u>
P14		<u>39</u>	<u>1569</u>			<u>39</u>	<u>1563</u>
P15		<u>42</u>	<u>1570</u>			<u>42</u>	<u>1565</u>
P16		<u>45</u>	<u>1571</u>			<u>45</u>	<u>1567</u>
P17		<u>48</u>	<u>1572</u>			<u>48</u>	<u>1568</u>
P18		<u>51</u>	<u>1573</u>			<u>51</u>	<u>1569</u>
P19		<u>54</u>	<u>1573</u>			<u>54</u>	<u>1570</u>
P20		<u>57</u>	<u>1573</u>			<u>57</u>	<u>1570</u>
WTC - 4		<u>60</u>	<u>1573</u>			<u>60</u>	<u>1570</u>

WESTERN TESTING CO., INC.
Pressure Data

Date 8/9/82 Test Ticket No. 16403
 Recorder No. 1565 Capacity 4900 Location 4423 Ft.
 Clock No. - Elevation - Well Temperature 124 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2160</u> P.S.I.	Open Tool	<u>5:00P</u>	<u>M</u>
B First Initial Flow Pressure	<u>77</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>35</u> Mins.
C First Final Flow Pressure	<u>77</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1573</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>49</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>56</u> P.S.I.			
G Final Closed-in Pressure	<u>1570</u> P.S.I.			
H Final Hydrostatic Mud	<u>2106</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 7 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.

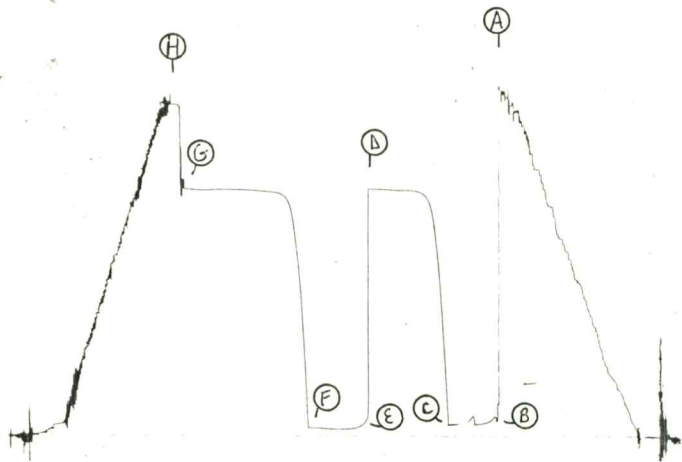
Final Shut-In
 Breakdown: 30 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						<u>63</u>	<u>1570</u>
P 2						<u>66</u>	<u>1570</u>
P 3						<u>69</u>	<u>1570</u>
P 4						<u>72</u>	<u>1570</u>
P 5						<u>75</u>	<u>1570</u>
P 6						<u>78</u>	<u>1570</u>
P 7						<u>81</u>	<u>1570</u>
P 8						<u>84</u>	<u>1570</u>
P 9						<u>87</u>	<u>1570</u>
P10						<u>90</u>	<u>1570</u>
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

1565
D5103

TKT # 16403

I



Company Leben Drilling Company Lease & Well No. #1 "A" Kinzie
 Elevation - Formation Simpson Effective Pay - Ft. Ticket No. 16404
 Date 8/11/82 Sec. 23 Twp. 29S Range 13W County Pratt State Kansas
 Test Approved by Bob Laymon Western Representative Jeff Piotrowski

Formation Test No. 4 Interval Tested from 4620 ft. to 4660 ft. Total Depth 4660 ft.
 Packer Depth 4615 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4620 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4650 ft. Recorder Number 1565 Cap. 4900
 Bottom Recorder Depth (Outside) 4653 ft. Recorder Number 1560 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Leben Rig #11 Drill Collar Length 150 I. D. 2.2 in.
 Mud Type Drispac Viscosity 40 Weight Pipe Length - I. D. - in.
 Weight 9.3 Water Loss 12.0 cc. Drill Pipe Length 4450 I. D. 3.2 in.
 Chlorides 22,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 40 ft. Size 5 1/2 OD in.
 Did Well Flow? No Reversed Out Yes Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4FH in.

Blow: Strong throughout test.

Recovered 780 ft. of water Chlorides 89,000 PPM
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 4:30 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 7:30 ~~P.M.~~ ^{A.M.} Maximum Temperature 126
 Initial Hydrostatic Pressure 2234 P.S.I. (A)
 Initial Flow Period 30 Minutes (B) 86 P.S.I. to (C) 301 P.S.I.
 Initial Closed In Period 60 Minutes (D) 973 P.S.I.
 Final Flow Period 30 Minutes (E) 371 P.S.I. to (F) 477 P.S.I.
 Final Closed In Period 60 Minutes (G) 973 P.S.I.
 Final Hydrostatic Pressure 2217 P.S.I. (H)

WESTERN TESTING CO., INC.
Pressure Data

Date 8/11/82 Test Ticket No. 16404
 Recorder No. 1565 Capacity 4900 Location 4650 Ft.
 Clock No. - Elevation - Well Temperature 126 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2234</u> P.S.I.	Open Tool	<u>4:30A</u> M	
B First Initial Flow Pressure	<u>86</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>301</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>973</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>371</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>477</u> P.S.I.			
G Final Closed-in Pressure	<u>973</u> P.S.I.			
H Final Hydrostatic Mud	<u>2217</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: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

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

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>86</u>	<u>0</u>	<u>301</u>	<u>0</u>	<u>371</u>	<u>0</u>	<u>477</u>
P 2 <u>5</u>	<u>109</u>	<u>3</u>	<u>940</u>	<u>5</u>	<u>371</u>	<u>3</u>	<u>943</u>
P 3 <u>10</u>	<u>152</u>	<u>6</u>	<u>957</u>	<u>10</u>	<u>388</u>	<u>6</u>	<u>954</u>
P 4 <u>15</u>	<u>193</u>	<u>9</u>	<u>964</u>	<u>15</u>	<u>410</u>	<u>9</u>	<u>963</u>
P 5 <u>20</u>	<u>234</u>	<u>12</u>	<u>968</u>	<u>20</u>	<u>435</u>	<u>12</u>	<u>966</u>
P 6 <u>25</u>	<u>272</u>	<u>15</u>	<u>970</u>	<u>25</u>	<u>460</u>	<u>15</u>	<u>970</u>
P 7 <u>30</u>	<u>301</u>	<u>18</u>	<u>971</u>	<u>30</u>	<u>477</u>	<u>18</u>	<u>971</u>
P 8		<u>21</u>	<u>972</u>			<u>21</u>	<u>972</u>
P 9		<u>24</u>	<u>973</u>			<u>24</u>	<u>973</u>
P10		<u>27</u>	<u>973</u>			<u>27</u>	<u>973</u>
P11		<u>30</u>	<u>973</u>			<u>30</u>	<u>973</u>
P12		<u>33</u>	<u>973</u>			<u>33</u>	<u>973</u>
P13		<u>36</u>	<u>973</u>			<u>36</u>	<u>973</u>
P14		<u>39</u>	<u>973</u>			<u>39</u>	<u>973</u>
P15		<u>42</u>	<u>973</u>			<u>42</u>	<u>973</u>
P16		<u>45</u>	<u>973</u>			<u>45</u>	<u>973</u>
P17		<u>48</u>	<u>973</u>			<u>48</u>	<u>973</u>
P18		<u>51</u>	<u>973</u>			<u>51</u>	<u>973</u>
P19		<u>54</u>	<u>973</u>			<u>54</u>	<u>973</u>
P20		<u>57</u>	<u>973</u>			<u>57</u>	<u>973</u>
WTC - 4		<u>60</u>	<u>973</u>			<u>60</u>	<u>973</u>

1565
DST #4

TKT # 16404
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