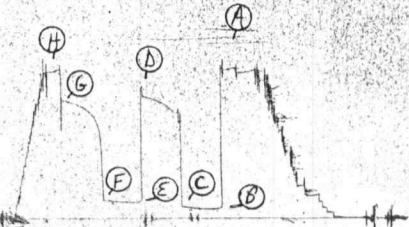


TKT # 10460

0

1300
DST #7
KAN-EX INC.



Company Kan-Ex, Inc. Lease & Well No. Twietmeyer #1
 Elevation 1417 Kelly Bushing Indian Cave Formation Effective Pay - Ft. Ticket No. 10460
 Date 6/29/81 Sec. 10 Twp. 28S Range 5W County Kingman State Kansas
 Test Approved by M-----B. Muc----- Western Representative Karl West, Jr.

Formation Test No. 1 Interval Tested from 1710 ft. to 1741 ft. Total Depth 1741 ft.
 Packer Depth 1705 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 1710 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 1713 ft. Recorder Number 11019 Cap. 4500
 Bottom Recorder Depth (Outside) 1716 ft. Recorder Number 1560 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Brandt Drlg. Co. Rig#2 Drill Collar Length 256 I. D. 2.26 in.
 Mud Type chemical Viscosity 36 Weight Pipe Length 92 I. D. 2.8 in.
 Weight 9.4 Water Loss - cc. Drill Pipe Length 1333 I. D. 3.8 in.
 Chlorides 68,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 in.
 Jars: Make WIC Serial Number 13029 Anchor Length 31 ft. Size 5 1/2 in.
 Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Initial flow weak building to fair in thirty minutes. Final flow weak throughout flow period.

Recovered 230 ft. of muddy salt water Chlorides 84,000 ppm
 Recovered - ft. of -
 Recovered - ft. of -
 Recovered - ft. of -
 Recovered - ft. of -

Remarks: Slid tool six feet to bottom. (Clock failure on top recorder; stopped running on second shut-in.)
Read Bottom Recorder

Time Set Packer(s) 9:30 ~~AM~~ P.M. Time Started Off Bottom 11:30 ~~AM~~ P.M. Maximum Temperature 121°
 Initial Hydrostatic Pressure (A) 869 P.S.I.
 Initial Flow Period Minutes 30 (B) 63 P.S.I. to (C) 75 P.S.I.
 Initial Closed In Period Minutes 30 (D) 768 * P.S.I.
 Final Flow Period Minutes 30 (E) 104 P.S.I. to (F) 116 P.S.I.
 Final Closed In Period Minutes 30 (G) 698 P.S.I.
 Final Hydrostatic Pressure (H) 869 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 6/29/81

Recorder No. 1560

Capacity 4500

Test Ticket No. 10460

Clock No. - Elevation 1417 Kelly Bushing

Location 1716 Ft.

Well Temperature 121 °F

Point	Pressure	
A Initial Hydrostatic Mud	<u>869</u>	P.S.I.
B First Initial Flow Pressure	<u>63</u>	P.S.I.
C First Final Flow Pressure	<u>75</u>	P.S.I.
D Initial Closed-in Pressure	<u>768*</u>	P.S.I.
E Second Initial Flow Pressure	<u>104</u>	P.S.I.
F Second Final Flow Pressure	<u>116</u>	P.S.I.
G Final Closed-in Pressure	<u>698</u>	P.S.I.
H Final Hydrostatic Mud	<u>869</u>	P.S.I.

Open Tool

First Flow Pressure

Initial Closed-in Pressure

Second Flow Pressure

Final Closed-in Pressure

Time Given	Time Computed
<u>9:30P</u>	<u>M</u>
<u>30</u> Mins.	<u>30</u> Mins.
<u>30</u> Mins.	<u>30</u> Mins.
<u>30</u> Mins.	<u>30</u> Mins.
<u>30</u> Mins.	<u>30</u> Mins.

* PRESSURES QUESTIONABLE DUE TO TOOL BEING PICKED UP TOO HIGH.

PRESSURE BREAKDOWN

First Flow Pressure

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

Initial Shut-In

Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure

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

Final Shut-In

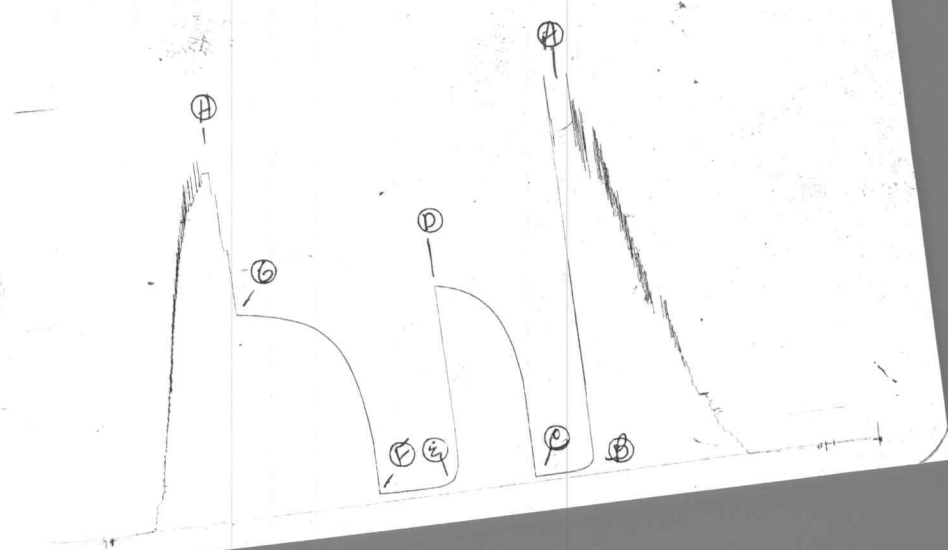
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>63</u>	<u>0</u>	<u>75</u>	<u>0</u>	<u>104</u>	<u>0</u>	<u>116</u>
P 2 <u>5</u>	<u>63</u>	<u>3</u>	<u>626 *</u>	<u>5</u>	<u>104</u>	<u>3</u>	<u>532</u>
P 3 <u>10</u>	<u>63</u>	<u>6</u>	<u>631 *</u>	<u>10</u>	<u>104</u>	<u>6</u>	<u>595</u>
P 4 <u>15</u>	<u>65</u>	<u>9</u>	<u>655 *</u>	<u>15</u>	<u>106</u>	<u>9</u>	<u>626</u>
P 5 <u>20</u>	<u>67</u>	<u>12</u>	<u>676 *</u>	<u>20</u>	<u>109</u>	<u>12</u>	<u>644</u>
P 6 <u>25</u>	<u>72</u>	<u>15</u>	<u>687 *</u>	<u>25</u>	<u>113</u>	<u>15</u>	<u>660</u>
P 7 <u>30</u>	<u>75</u>	<u>18</u>	<u>698 *</u>	<u>30</u>	<u>116</u>	<u>18</u>	<u>671</u>
P 8 _____	_____	<u>21</u>	<u>707 *</u>	_____	_____	<u>21</u>	<u>682</u>
P 9 _____	_____	<u>24</u>	<u>714 *</u>	_____	_____	<u>24</u>	<u>691</u>
P10 _____	_____	<u>27</u>	<u>721 *</u>	_____	_____	<u>27</u>	<u>696</u>
P11 _____	_____	<u>30</u>	<u>768 *</u>	_____	_____	<u>30</u>	<u>698</u>
P12 _____	_____	_____	_____	_____	_____	_____	_____
P13 _____	_____	_____	_____	_____	_____	_____	_____
P14 _____	_____	_____	_____	_____	_____	_____	_____
P15 _____	_____	_____	_____	_____	_____	_____	_____
P16 _____	_____	_____	_____	_____	_____	_____	_____
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____

PKT # 10464

I

Handwritten notes or scribbles in the top right corner.



Company Kan-Ex, Inc. Lease & Well No. Tweitmeyer #1
 Elevation 1417 Kelly Bushing Mississippi Formation Effective Pay - Ft. Ticket No. 10464
 Date 7/4/81 Sec. 10 Twp. 28S Range 5W County Kingman State Kansas
 Test Approved by Grant B Gordin Western Representative Karl West, Jr.

Formation Test No. 2 Interval Tested from 3764 ft. to 3777 ft. Total Depth 3777 ft.
 Packer Depth 3759 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3764 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 3767 ft. Recorder Number 2606 Cap. 4150
 Bottom Recorder Depth (Outside) 3770 ft. Recorder Number 4332 Cap. 4200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Brandt Drilling Co Rig #2 Drill Collar Length 256 I. D. 2.26 in.
 Mud Type Chemical Viscosity 50 Weight Pipe Length 92 I. D. 2.8 in.
 Weight 9.4 Water Loss 8.2 cc. Drill Pipe Length 3452 I. D. 3.8 in.
 Chlorides 10,000 P.P.M. Test Tool Length 29 Tool Size 5 1/2 in.
 Jars: Make WTC Serial Number 409 Anchor Length 13 ft. Size 5 1/2 in.
 Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Strong blow throughout test. Gas to surface in 25 minutes initial flow period.
See attached sheet for gas measurements.

Recovered 3777 ft. of gas in pipe
 Recovered 123 ft. of gas cut watery mud Chlorides 25,000 PPM
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Remarks: Slid tool 4 ft to bottom

Time Set Packer(s) 2:50 ~~A.M.~~ P.M. Time Started Off Bottom 7:05 ~~A.M.~~ P.M. Maximum Temperature 128
 Initial Hydrostatic Pressure (A) 1895 P.S.I.
 Initial Flow Period Minutes 45 (B) 31 P.S.I. to (C) 31 P.S.I.
 Initial Closed In Period Minutes 57 (D) 1118 P.S.I.
 Final Flow Period Minutes 60 (E) 44 P.S.I. to (F) 48 P.S.I.
 Final Closed In Period Minutes 90 (G) 1098 P.S.I.
 Final Hydrostatic Pressure (H) 1873 P.S.I.

GAS FLOW REPORT

Date 7/4/81 Ticket 10464 Company Kan-Ex, Inc.
 Well Name and No. Twitmeier #1 Dst No. 2 Interval Tested 3764-3777
 County Kingman State Kansas Sec. 10 Twp. 28S Rg. 5W

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						
	25 Min	5.0 PSIG	3/8" Orifice			44,200 C.F.P.D.
	30 Min	12.0 PSIG	3/8" Orifice			72,600 C.F.P.D.
	35 Min	17.0 PSIG	3/8" Orifice			90,000 C.F.P.D.
	40 Min	18.0 PSIG	3/8" Orifice			93,300 C.F.P.D.

SECOND FLOW						
	10 Min	19.0 PSIG	3/8" Orifice			97,200 C.F.P.D.
	20 Min	19.0 PSIG	3/8" Orifice			97,200 C.F.P.D.
	30 Min	20.0 PSIG	3/8" Orifice			100,000 C.F.P.D.
	40 Min	20.0 PSIG	3/8" Orifice			100,000 C.F.P.D.
	50 Min	20.0 PSIG	3/8" Orifice			100,000 C.F.P.D.
	60 Min	20.0 PSIG	3/8" Orifice			100,000 C.F.P.D.

GAS BOTTLE

Serial No. _____ Date Bottle Filled _____ Date to be Invoiced 7/4/81

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 Kan-Ex, Inc.

Authorized by Grant B Gordin

WESTERN TESTING CO., INC.

Pressure Data

Date 7/4/81

Test Ticket No. 10464

Recorder No. 2606

Capacity 4150

Location 3767 Ft.

Clock No. - Elevation 1417 Kelly Bushing

Well Temperature 128 °F

Point	Pressure	P.S.I.
A Initial Hydrostatic Mud	<u>1895</u>	P.S.I.
B First Initial Flow Pressure	<u>31</u>	P.S.I.
C First Final Flow Pressure	<u>31</u>	P.S.I.
D Initial Closed-in Pressure	<u>1118</u>	P.S.I.
E Second Initial Flow Pressure	<u>44</u>	P.S.I.
F Second Final Flow Pressure	<u>48</u>	P.S.I.
G Final Closed-in Pressure	<u>1098</u>	P.S.I.
H Final Hydrostatic Mud	<u>1873</u>	P.S.I.

Open Tool
 First Flow Pressure
 Initial Closed-in Pressure
 Second Flow Pressure
 Final Closed-in Pressure

Time Given	Time Computed
<u>2:50A</u>	<u>M</u>
<u>45</u> Mins.	<u>45</u> Mins.
<u>60</u> Mins.	<u>57</u> Mins.
<u>60</u> Mins.	<u>60</u> Mins.
<u>90</u> Mins.	<u>90</u> Mins.

PRESSURE BREAKDOWN

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

Initial Shut-In
 Breakdown: 19 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

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

Final Shut-In
 Breakdown: 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>0</u>	<u>31</u>	<u>0</u>	<u>31</u>	<u>0</u>	<u>44</u>	<u>0</u>	<u>48</u>
P 2 <u>5</u>	<u>31</u>	<u>3</u>	<u>630</u>	<u>5</u>	<u>44</u>	<u>3</u>	<u>450</u>
P 3 <u>10</u>	<u>31</u>	<u>6</u>	<u>746</u>	<u>10</u>	<u>44</u>	<u>6</u>	<u>575</u>
P 4 <u>15</u>	<u>31</u>	<u>9</u>	<u>819</u>	<u>15</u>	<u>44</u>	<u>9</u>	<u>668</u>
P 5 <u>20</u>	<u>31</u>	<u>12</u>	<u>871</u>	<u>20</u>	<u>44</u>	<u>12</u>	<u>734</u>
P 6 <u>25</u>	<u>31</u>	<u>15</u>	<u>913</u>	<u>25</u>	<u>44</u>	<u>15</u>	<u>794</u>
P 7 <u>30</u>	<u>31</u>	<u>18</u>	<u>952</u>	<u>30</u>	<u>44</u>	<u>18</u>	<u>838</u>
P 8 <u>35</u>	<u>31</u>	<u>21</u>	<u>977</u>	<u>35</u>	<u>44</u>	<u>21</u>	<u>871</u>
P 9 <u>40</u>	<u>31</u>	<u>24</u>	<u>1002</u>	<u>40</u>	<u>44</u>	<u>24</u>	<u>900</u>
P10 <u>45</u>	<u>31</u>	<u>27</u>	<u>1021</u>	<u>45</u>	<u>44</u>	<u>27</u>	<u>927</u>
P11		<u>30</u>	<u>1037</u>	<u>50</u>	<u>46</u>	<u>30</u>	<u>946</u>
P12		<u>33</u>	<u>1054</u>	<u>55</u>	<u>47</u>	<u>33</u>	<u>967</u>
P13		<u>36</u>	<u>1066</u>	<u>60</u>	<u>48</u>	<u>36</u>	<u>983</u>
P14		<u>39</u>	<u>1077</u>			<u>39</u>	<u>996</u>
P15		<u>42</u>	<u>1087</u>			<u>42</u>	<u>1008</u>
P16		<u>45</u>	<u>1095</u>			<u>45</u>	<u>1019</u>
P17		<u>48</u>	<u>1101</u>			<u>48</u>	<u>1027</u>
P18		<u>51</u>	<u>1108</u>			<u>51</u>	<u>1035</u>
P19		<u>54</u>	<u>1113</u>			<u>54</u>	<u>1043</u>
P20		<u>57</u>	<u>1118</u>			<u>57</u>	<u>1050</u>
						<u>60</u>	<u>1056</u>

WESTERN TESTING CO., INC.
Pressure Data

Date 7/4/81

Test Ticket No. 10464

Recorder No. 2606

Capacity 4150

Location 3767 Ft.

Clock No. -

Elevation 1417 Kelly Bushing

Well Temperature 128 °F

Point	Pressure	
A Initial Hydrostatic Mud	<u>1895</u>	P.S.I.
B First Initial Flow Pressure	<u>31</u>	P.S.I.
C First Final Flow Pressure	<u>31</u>	P.S.I.
D Initial Closed-in Pressure	<u>1118</u>	P.S.I.
E Second Initial Flow Pressure	<u>44</u>	P.S.I.
F Second Final Flow Pressure	<u>48</u>	P.S.I.
G Final Closed-in Pressure	<u>1098</u>	P.S.I.
H Final Hydrostatic Mud	<u>1873</u>	P.S.I.

	Time Given	Time Computed
Open Tool	<u>2:50A</u>	<u>M</u>
First Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
Initial Closed-in Pressure	<u>60</u> Mins.	<u>57</u> Mins.
Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.

PRESSURE BREAKDOWN

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

Initial Shut-In
Breakdown: 19 Inc.
of 3 mins. and a
final inc. of 0 Min.

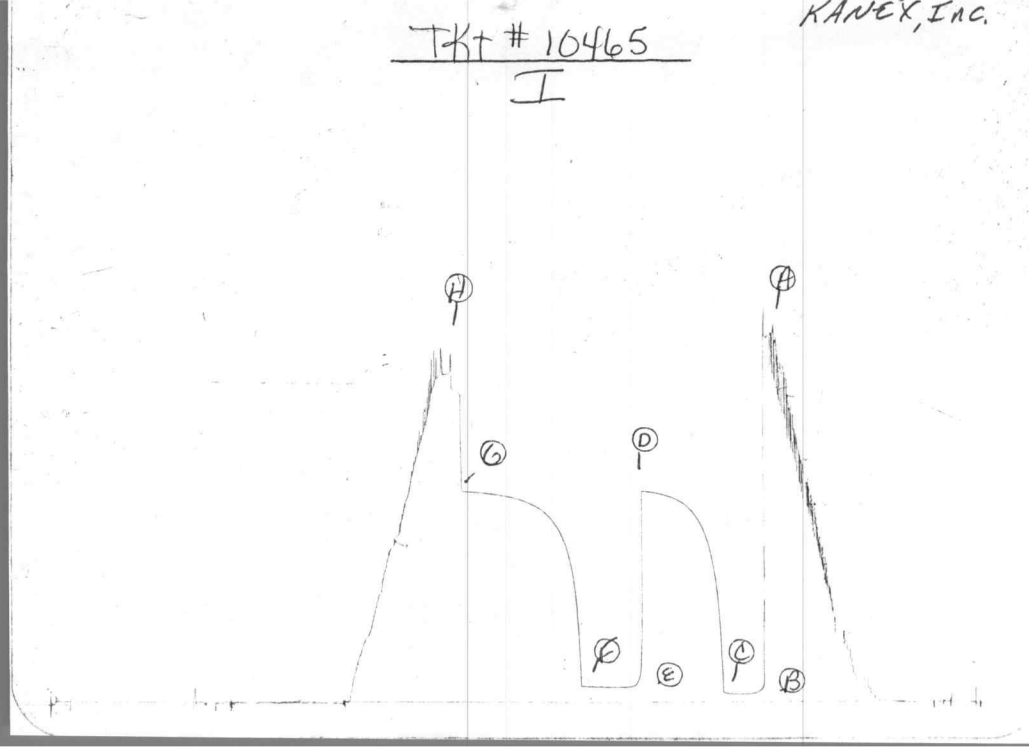
Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 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>1062</u>
P 2						<u>66</u>	<u>1068</u>
P 3						<u>69</u>	<u>1072</u>
P 4						<u>72</u>	<u>1079</u>
P 5						<u>75</u>	<u>1083</u>
P 6						<u>78</u>	<u>1087</u>
P 7						<u>81</u>	<u>1091</u>
P 8						<u>84</u>	<u>1094</u>
P 9						<u>87</u>	<u>1097</u>
P10						<u>90</u>	<u>1098</u>
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TKT # 10465
I

KANEX, INC.



Company Kan-Ex, Inc. Lease & Well No. Twitmeier #1
 Elevation 1417 Kelly Bushing Mississippi Formation Effective Pay - Ft. Ticket No. 10465
 Date 7/4/81 Sec. 10 Twp. 28S Range 5W County Kingman State Kansas
 Test Approved by Bill Smith Western Representative Karl West, Jr.

Formation Test No. 3 Interval Tested from 3776 ft. to 3790 ft. Total Depth 3790 ft.
 Packer Depth 3771 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3776 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3779 ft. Recorder Number 2606 Cap. 4150
 Bottom Recorder Depth (Outside) 3781 ft. Recorder Number 4332 Cap. 4200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Brandt Drilling Co Rig #2 Drill Collar Length 256 I. D. 2.26 in.
 Mud Type Chemical Viscosity 50 Weight Pipe Length 92 I. D. 2.8 in.
 Weight 9.4 Water Loss 8.2 cc. Drill Pipe Length 3452 I. D. 3.8 in.
 Chlorides 10,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 in.
 Jars: Make WTC Serial Number 409 Anchor Length 14 ft. Size 5 1/2 in.
 Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Initial flow period strong blow. Gas to surface in 15 minutes. Final flow period gas to surface upon opening. see attached sheet for gas measurements.

Recovered 3669 ft. of gas in pipe
 Recovered 131 ft. of gas cut watery mud Chlorides 25,500 PPM
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 7:20 ~~A.M.~~ P.M. Time Started Off Bottom 11:05 ~~A.M.~~ P.M. Maximum Temperature 128
 Initial Hydrostatic Pressure 1978 P.S.I. (A)
 Initial Flow Period 30 Minutes (B) 44 P.S.I. to (C) 50 P.S.I.
 Initial Closed In Period 60 Minutes (D) 1143 P.S.I.
 Final Flow Period 45 Minutes (E) 81 P.S.I. to (F) 84 P.S.I.
 Final Closed In Period 87 Minutes (G) 1143 P.S.I.
 Final Hydrostatic Pressure 1758 P.S.I. (H)

GAS FLOW REPORT

Date 7/4/81 Ticket 10465 Company Kan-Ex, Inc.
 Well Name and No. Twitmeyer #1 Dst No. 3 Interval Tested 3776-3790
 County Kingman State Kansas Sec. 10 Twp. 28S Rg. 5W

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						
	15 Min	1.0 PSIG	1/4" Orifice			8,950 C.F.P.D.
	20 Min	2.0 PSIG	1/4" Orifice			12,700 C.F.P.D.
	25 Min	2.5 PSIG	1/4" Orifice			14,300 C.F.P.D.
	30 Min	3.0 PSIG	1/4" Orifice			15,700 C.F.P.D.

SECOND FLOW						
	10 Min	8.0 PSIG	1/4" Orifice			27,000 C.F.P.D.
	20 Min	7.0 PSIG	1/4" Orifice			25,000 C.F.P.D.
	30 Min	6.5 PSIG	1/4" Orifice			23,900 C.F.P.D.
	40 Min	6.5 PSIG	1/4" Orifice			23,900 C.F.P.D.
	45 Min	6.5 PSIG	1/4" Orifice			23,900 C.F.P.D.

GAS BOTTLE

Serial No. 107 Date Bottle Filled 7/4/81 Date to be Invoiced 7/4/81

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 Kan-Ex, Inc.

Authorized by Bill Smith

WESTERN TESTING CO., INC.

Pressure Data

Date 7/4/81

Test Ticket No. 10465

Recorder No. 2606

Capacity 4150

Location 3779 Ft.

Clock No. -

Elevation 1714 Kelly Bushing

Well Temperature 128 °F

Point	Pressure	
A Initial Hydrostatic Mud	<u>1978</u>	P.S.I.
B First Initial Flow Pressure	<u>44</u>	P.S.I.
C First Final Flow Pressure	<u>50</u>	P.S.I.
D Initial Closed-in Pressure	<u>1143</u>	P.S.I.
E Second Initial Flow Pressure	<u>81</u>	P.S.I.
F Second Final Flow Pressure	<u>84</u>	P.S.I.
G Final Closed-in Pressure	<u>1143</u>	P.S.I.
H Final Hydrostatic Mud	<u>1758</u>	P.S.I.

Open Tool
 First Flow Pressure
 Initial Closed-in Pressure
 Second Flow Pressure
 Final Closed-in Pressure

Time Given	Time Computed
<u>7:20P</u>	<u>M</u>
<u>30</u> Mins.	<u>30</u> Mins.
<u>60</u> Mins.	<u>60</u> Mins.
<u>45</u> Mins.	<u>45</u> Mins.
<u>90</u> Mins.	<u>87</u> Mins.

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: 29 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>44</u>	<u>0</u>	<u>50</u>	<u>0</u>	<u>81</u>	<u>0</u>	<u>84</u>
P 2 <u>5</u>	<u>44</u>	<u>3</u>	<u>433</u>	<u>5</u>	<u>81</u>	<u>3</u>	<u>460</u>
P 3 <u>10</u>	<u>44</u>	<u>6</u>	<u>635</u>	<u>10</u>	<u>81</u>	<u>6</u>	<u>651</u>
P 4 <u>15</u>	<u>44</u>	<u>9</u>	<u>780</u>	<u>15</u>	<u>81</u>	<u>9</u>	<u>771</u>
P 5 <u>20</u>	<u>44</u>	<u>12</u>	<u>865</u>	<u>20</u>	<u>81</u>	<u>12</u>	<u>846</u>
P 6 <u>25</u>	<u>46</u>	<u>15</u>	<u>929</u>	<u>25</u>	<u>81</u>	<u>15</u>	<u>898</u>
P 7 <u>30</u>	<u>50</u>	<u>18</u>	<u>975</u>	<u>30</u>	<u>82</u>	<u>18</u>	<u>942</u>
P 8 _____	_____	<u>21</u>	<u>1008</u>	<u>35</u>	<u>83</u>	<u>21</u>	<u>975</u>
P 9 _____	_____	<u>24</u>	<u>1035</u>	<u>40</u>	<u>83</u>	<u>24</u>	<u>1002</u>
P10 _____	_____	<u>27</u>	<u>1060</u>	<u>45</u>	<u>84</u>	<u>27</u>	<u>1023</u>
P11 _____	_____	<u>30</u>	<u>1075</u>	_____	_____	<u>30</u>	<u>1039</u>
P12 _____	_____	<u>33</u>	<u>1091</u>	_____	_____	<u>33</u>	<u>1054</u>
P13 _____	_____	<u>36</u>	<u>1101</u>	_____	_____	<u>36</u>	<u>1066</u>
P14 _____	_____	<u>39</u>	<u>1110</u>	_____	_____	<u>39</u>	<u>1079</u>
P15 _____	_____	<u>42</u>	<u>1118</u>	_____	_____	<u>42</u>	<u>1087</u>
P16 _____	_____	<u>45</u>	<u>1124</u>	_____	_____	<u>45</u>	<u>1095</u>
P17 _____	_____	<u>48</u>	<u>1128</u>	_____	_____	<u>48</u>	<u>1101</u>
P18 _____	_____	<u>51</u>	<u>1135</u>	_____	_____	<u>51</u>	<u>1108</u>
P19 _____	_____	<u>54</u>	<u>1139</u>	_____	_____	<u>54</u>	<u>1114</u>
P20 _____	_____	<u>57</u>	<u>1143</u>	_____	_____	<u>57</u>	<u>1118</u>
WTC - 4	_____	<u>60</u>	<u>1143</u>	_____	_____	<u>60</u>	<u>1121</u>

CONT'D NEXT PAGE

WESTERN TESTING CO., INC.

Pressure Data

Date 7/4/81

Recorder No. 2606

Capacity 4150

Test Ticket No. 10465

Location 3779 Ft.

Clock No. - Elevation 1714 Kelly Bushing

Well Temperature 128 °F

Point	Pressure	
A Initial Hydrostatic Mud	<u>1978</u>	P.S.I.
B First Initial Flow Pressure	<u>44</u>	P.S.I.
C First Final Flow Pressure	<u>50</u>	P.S.I.
D Initial Closed-in Pressure	<u>1143</u>	P.S.I.
E Second Initial Flow Pressure	<u>81</u>	P.S.I.
F Second Final Flow Pressure	<u>84</u>	P.S.I.
G Final Closed-in Pressure	<u>1143</u>	P.S.I.
H Final Hydrostatic Mud	<u>1758</u>	P.S.I.

Open Tool

First Flow Pressure

Initial Closed-in Pressure

Second Flow Pressure

Final Closed-in Pressure

Time Given	Time Computed
<u>7:20P</u>	<u>M</u>
<u>30</u> Mins.	<u>30</u> Mins.
<u>60</u> Mins.	<u>60</u> Mins.
<u>45</u> Mins.	<u>45</u> Mins.
<u>90</u> Mins.	<u>87</u> Mins.

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.

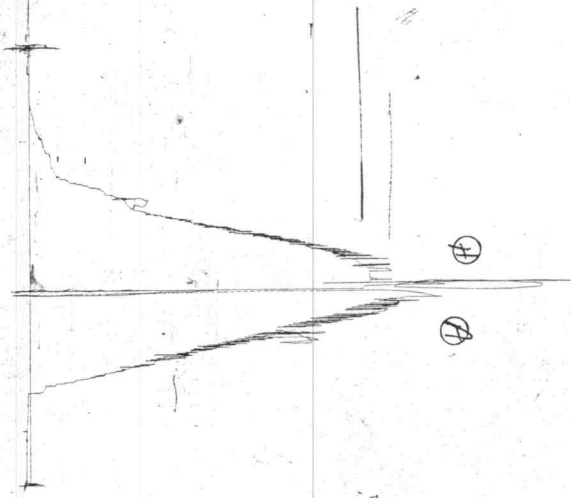
Second Flow Pressure
Breakdown: 9 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 29 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1				63	1125
P 2				66	1128
P 3				69	1130
P 4				72	1134
P 5				75	1136
P 6				78	1138
P 7				81	1140
P 8				84	1142
P 9				87	1143
P10					
P11					
P12					
P13					
P14					
P15					
P16					
P17					
P18					
P19					
P20					

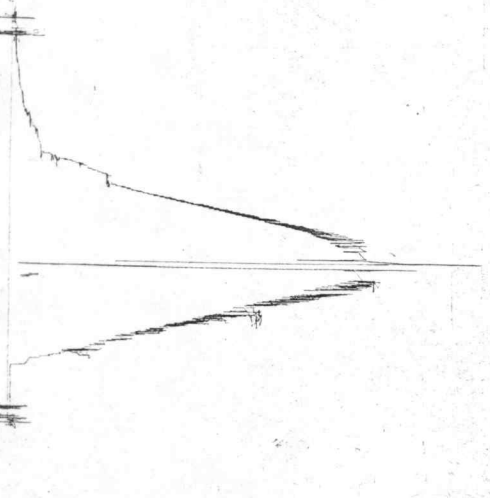
TKT # 10466
I

8606
DST # 4
KAMEX INC.



TKT # 10466
O

4332
DST # 4
KAMEX INC.



Company Kan-Ex, Inc. Lease & Well No. Twitmeier #1
 Elevation 1417 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 10466
 Date 7/5/81 Sec. 10 Twp. 28S Range 5W County Kingman State Kansas
 Test Approved by Grant B Gordin Western Representative Karl West, Jr.

Formation Test No. 4 Interval Tested from 3795 ft. to 3805 ft. Total Depth 3805 ft.
 Packer Depth 3790 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3795 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3788 ft. Recorder Number 2606 Cap. 4150
 Bottom Recorder Depth (Outside) 3798 ft. Recorder Number 4332 Cap. 4200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Brandt Drilling Co Rig #2 Drill Collar Length 256 I. D. 2.26 in.
 Mud Type Chemical Viscosity 61 Weight Pipe Length 92 I. D. 2.8 in.
 Weight 9.0 Water Loss 12.0 cc. Drill Pipe Length 3483 I. D. 3.8 in.
 Chlorides 20,000 P.P.M. Test Tool Length 35 ft. Tool Size 5 1/2 in.
 Jars: Make WIC Serial Number 409 Anchor Length 10 ft. Size 5 1/2 in.
 Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: No blow. flow price

Recovered 31 ft. of drilling mud

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

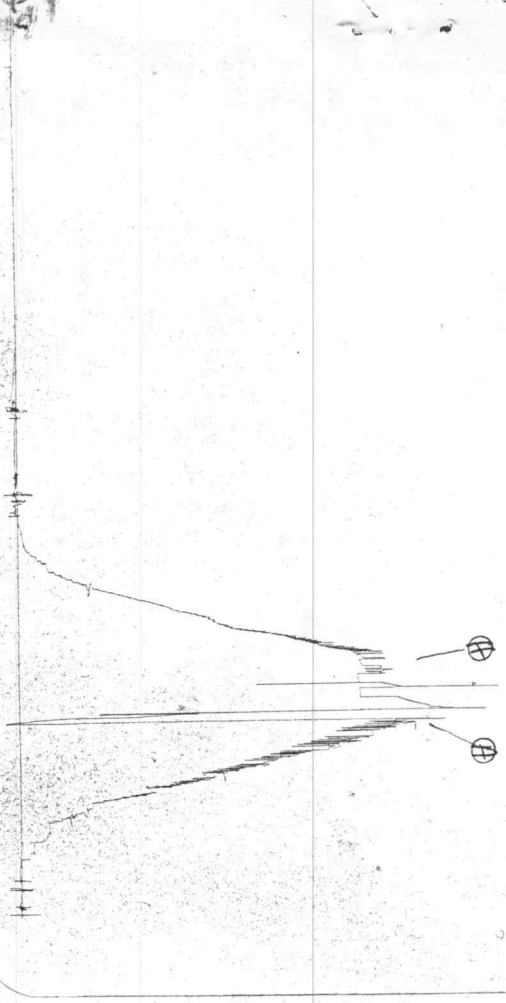
Remarks: Flushed tool - no blow. Flushed tool again- no blow. Slid tool 6 ft to bottom.
Found hole in bottom hole collar.

Time Set Packer(s) 1:30 ~~A.M.~~ P.M. Time Started Off Bottom 1:45 ~~A.M.~~ P.M. Maximum Temperature 119
 Initial Hydrostatic Pressure (A) 1947 P.S.I.
 Initial Flow Period (B) - Minutes P.S.I. to (C) - P.S.I.
 Initial Closed In Period (D) - Minutes P.S.I.
 Final Flow Period (E) - Minutes P.S.I. to (F) - P.S.I.
 Final Closed In Period (G) - Minutes P.S.I.
 Final Hydrostatic Pressure (H) 1905 P.S.I.

2606 D5745

2606

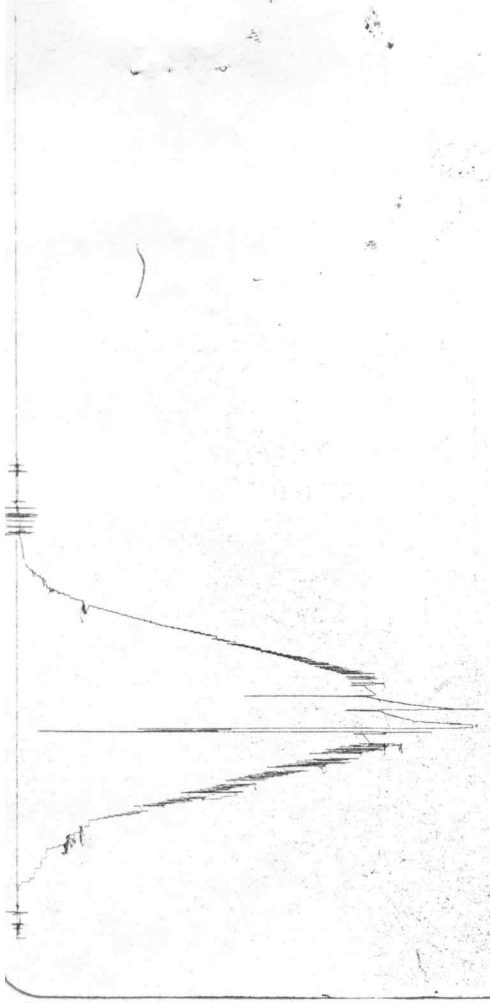
IR # 10467
I



D5745

4332

IR # 10467
O



Company Kan-Ex, Inc. Lease & Well No. Twitmeier #1
 Elevation 1417 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 10467
 Date 7/5/81 Sec. 10 Twp. 28S Range 5W County Kingman State Kansas
 Test Approved by Grant B Gordin Western Representative Karl West, Jr.

Formation Test No. 5 Interval Tested from 3795 ft. to 3805 ft. Total Depth 3805 ft.
 Packer Depth 3790 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3795 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3798 ft. Recorder Number 2606 Cap. 4150
 Bottom Recorder Depth (Outside) 3801 ft. Recorder Number 4332 Cap. 4200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Brandt Drilling Co Rig #2 Drill Collar Length 256 I. D. 2.26 in.
 Mud Type Chemical Viscosity 61 Weight Pipe Length 92 I. D. 2.8 in.
 Weight 9.0 Water Loss 12.0 cc. Drill Pipe Length 3483 I. D. 3.8 in.
 Chlorides 20,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 in.
 Jars: Make WTC Serial Number 409 Anchor Length 10 ft. Size 5 1/2 in.
 Did Well Flow? NO Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: No Blow

Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

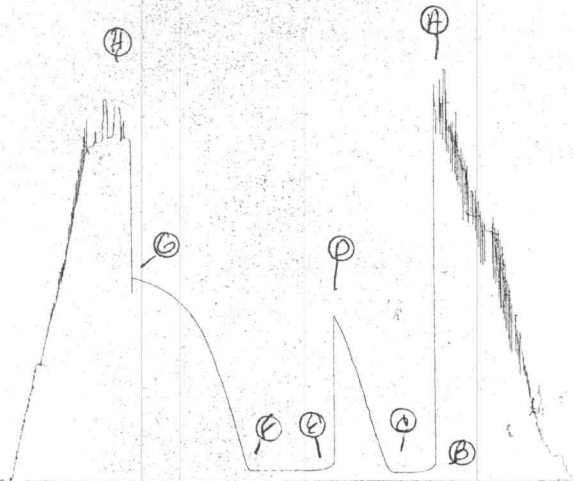
Remarks: Slid 1 ft. - flushed tool - no blow. Flushed again - no blow. Plugged tool.

Time Set Packer(s) 7:10 ~~AM~~ P.M. Time Started Off Bottom 7:40 ~~AM~~ P.M. Maximum Temperature 119
 Initial Hydrostatic Pressure (A) 1994 P.S.I.
 Initial Flow Period (B) - Minutes P.S.I. to (C) - P.S.I.
 Initial Closed In Period (D) - Minutes P.S.I.
 Final Flow Period (E) - Minutes P.S.I. to (F) - P.S.I.
 Final Closed In Period (G) - Minutes P.S.I.
 Final Hydrostatic Pressure (H) 1920 P.S.I.

TKT # 10468

I

2606
DST 60
Kan EX



Company Kan-Ex, Inc. Lease & Well No. Twitmeier #1
 Elevation 1417 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 10468
 Date 7/6/81 Sec. 10 Twp. 28S Range 5W County Kingman State Kansas
 Test Approved by Grant B Gordin Western Representative Karl West, Jr.

Formation Test No. 6 Interval Tested from 3793 ft. to 3805 ft. Total Depth 3805 ft.
 Packer Depth 3788 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3793 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3796 ft. Recorder Number 2606 Cap. 4150
 Bottom Recorder Depth (Outside) 3799 ft. Recorder Number 4332 Cap. 4200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Brandt Drilling Co Rig #2 Drill Collar Length 256 I. D. 2.26 in.
 Mud Type Chemical Viscosity 61 Weight Pipe Length 92 I. D. 2.8 in.
 Weight 9.0 Water Loss 12.0 cc. Drill Pipe Length 3483 I. D. 3.8 in.
 Chlorides 20,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 in.
 Jars: Make WTC Serial Number 409 Anchor Length 12 ft. Size 5 1/2 in.
 Did Well Flow No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Very strong blow throughout test.

Recovered 50 ft. of slightly gas cut/ oil specked/ drilling mud
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: _____

Time Set Packer(s) 1:50 A.M. P.M. Time Started Off Bottom 5:35 A.M. P.M. Maximum Temperature 122
 Initial Hydrostatic Pressure (A) 1937 P.S.I.
 Initial Flow Period (B) 30 Minutes 48 P.S.I. to (C) 48 P.S.I.
 Initial Closed In Period (D) 45 Minutes 884 P.S.I.
 Final Flow Period (E) 60 Minutes 59 P.S.I. to (F) 59 P.S.I.
 Final Closed In Period (G) 90 Minutes 1091 P.S.I.
 Final Hydrostatic Pressure (H) 1842 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 7/6/81

Test Ticket No. 10468

Recorder No. 2606

Capacity 4150

Location 3796 Ft.

Clock No. -

Elevation 1714 Kelly Bushing

Well Temperature 122 °F

Point	Pressure	
A Initial Hydrostatic Mud	<u>1937</u>	P.S.I.
B First Initial Flow Pressure	<u>48</u>	P.S.I.
C First Final Flow Pressure	<u>48</u>	P.S.I.
D Initial Closed-in Pressure	<u>884</u>	P.S.I.
E Second Initial Flow Pressure	<u>59</u>	P.S.I.
F Second Final Flow Pressure	<u>59</u>	P.S.I.
G Final Closed-in Pressure	<u>1091</u>	P.S.I.
H Final Hydrostatic Mud	<u>1842</u>	P.S.I.

Open Tool
 First Flow Pressure
 Initial Closed-in Pressure
 Second Flow Pressure
 Final Closed-in Pressure

Time Given	Time Computed
<u>1:50</u>	<u>M</u>
<u>30</u> Mins.	<u>30</u> Mins.
<u>45</u> Mins.	<u>45</u> Mins.
<u>60</u> Mins.	<u>60</u> Mins.
<u>90</u> Mins.	<u>90</u> Mins.

PRESSURE BREAKDOWN

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

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

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

Final Shut-In
 Breakdown: 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>0</u>	<u>48</u>	<u>0</u>	<u>48</u>	<u>0</u>	<u>59</u>	<u>0</u>	<u>59</u>
P 2 <u>5</u>	<u>48</u>	<u>3</u>	<u>64</u>	<u>5</u>	<u>59</u>	<u>3</u>	<u>64</u>
P 3 <u>10</u>	<u>48</u>	<u>6</u>	<u>106</u>	<u>10</u>	<u>59</u>	<u>6</u>	<u>116</u>
P 4 <u>15</u>	<u>48</u>	<u>9</u>	<u>164</u>	<u>15</u>	<u>59</u>	<u>9</u>	<u>202</u>
P 5 <u>20</u>	<u>48</u>	<u>12</u>	<u>231</u>	<u>20</u>	<u>59</u>	<u>12</u>	<u>283</u>
P 6 <u>25</u>	<u>48</u>	<u>15</u>	<u>295</u>	<u>25</u>	<u>59</u>	<u>15</u>	<u>362</u>
P 7 <u>30</u>	<u>48</u>	<u>18</u>	<u>381</u>	<u>30</u>	<u>59</u>	<u>18</u>	<u>423</u>
P 8 _____	_____	<u>21</u>	<u>444</u>	<u>35</u>	<u>59</u>	<u>21</u>	<u>487</u>
P 9 _____	_____	<u>24</u>	<u>514</u>	<u>40</u>	<u>59</u>	<u>24</u>	<u>556</u>
P10 _____	_____	<u>27</u>	<u>589</u>	<u>45</u>	<u>59</u>	<u>27</u>	<u>614</u>
P11 _____	_____	<u>30</u>	<u>643</u>	<u>50</u>	<u>59</u>	<u>30</u>	<u>680</u>
P12 _____	_____	<u>33</u>	<u>713</u>	<u>55</u>	<u>59</u>	<u>33</u>	<u>734</u>
P13 _____	_____	<u>36</u>	<u>773</u>	<u>60</u>	<u>59</u>	<u>36</u>	<u>780</u>
P14 _____	_____	<u>39</u>	<u>821</u>	_____	_____	<u>39</u>	<u>827</u>
P15 _____	_____	<u>42</u>	<u>865</u>	_____	_____	<u>42</u>	<u>863</u>
P16 _____	_____	<u>45</u>	<u>884</u>	_____	_____	<u>45</u>	<u>892</u>
P17 _____	_____	_____	_____	_____	_____	<u>48</u>	<u>917</u>
P18 _____	_____	_____	_____	_____	_____	<u>51</u>	<u>940</u>
P19 _____	_____	_____	_____	_____	_____	<u>54</u>	<u>963</u>
P20 _____	_____	_____	_____	_____	_____	<u>57</u>	<u>981</u>
						<u>60</u>	<u>1000</u>

WESTERN TESTING CO., INC.
Pressure Data

Date 7/6/81

Test Ticket No. 10468

Recorder No. 2606

Capacity 4150

Location 3796 Ft.

Clock No. - Elevation 1714 Kelly Bushing

Well Temperature 122 °F

Point	Pressure	
A Initial Hydrostatic Mud	<u>1937</u>	P.S.I.
B First Initial Flow Pressure	<u>48</u>	P.S.I.
C First Final Flow Pressure	<u>48</u>	P.S.I.
D Initial Closed-in Pressure	<u>884</u>	P.S.I.
E Second Initial Flow Pressure	<u>59</u>	P.S.I.
F Second Final Flow Pressure	<u>59</u>	P.S.I.
G Final Closed-in Pressure	<u>1091</u>	P.S.I.
H Final Hydrostatic Mud	<u>1842</u>	P.S.I.

Open Tool
First Flow Pressure
Initial Closed-in Pressure
Second Flow Pressure
Final Closed-in Pressure

Time Given	Time Computed
<u>1:50</u>	<u>M</u>
<u>30</u> Mins.	<u>30</u> Mins.
<u>45</u> Mins.	<u>45</u> Mins.
<u>60</u> Mins.	<u>60</u> Mins.
<u>90</u> Mins.	<u>90</u> Mins.

PRESSURE BREAKDOWN

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

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

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

Final Shut-In
Breakdown: 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>1012</u>
P 2						<u>66</u>	<u>1025</u>
P 3						<u>69</u>	<u>1037</u>
P 4						<u>72</u>	<u>1048</u>
P 5						<u>75</u>	<u>1056</u>
P 6						<u>78</u>	<u>1064</u>
P 7						<u>81</u>	<u>1072</u>
P 8						<u>84</u>	<u>1081</u>
P 9						<u>87</u>	<u>1087</u>
P10						<u>90</u>	<u>1091</u>
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							