

Company Nadel & Gussman Lease & Well No. Wood #9
Elevation - Formation Kansas City Effective Pay - Ft. Ticket No. 4146
Date 10-21-80 Sec. 26 Twp 19S Range 13W County Barton State Kansas
Test Approved by Robert D. Dougherty Western Representative Darrell Claphan
Formation Test No. 1 Interval Tested from 3158 ft. to 3210 ft. Total Depth 3210 ft.
Packer Depth 3153 ft. Size 6 3/4 in. Packer Depth 3158 ft. Size 6 3/4 in.
Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3165 ft. Recorder Number 10266 Cap. 4650
Bottom Recorder Depth (Outside) 3169 ft. Recorder Number 6233 Cap. 4000
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Woodman Iannitti Rig #2 Drill Collar Length - I. D. - in.
Mud Type Starch Viscosity 42 Weight Pipe Length 379 I. D. 2.7 in.
Weight 9.7 Water Loss 8.2 cc. Drill Pipe Length 2759 I. D. 3.8 in.
Chlorides 82,000 P.P.M. Test Tool Length 20 ft. Tool Size 4 1/2 in.
Jars: Make - Serial Number - Anchor Length 52 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 in.

Blow: Initial flow period weak blow slowly dying (1/8 inch). Died in 30 minutes. Final flow period no blow.

Recovered 15 ft. of mud
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of

Remarks: Slid tool approximately 4 feet. Opened tool. slid to tool joint picked up tool, then pick up another joint of pipe . Then reset tool

Time Set Packer(s) 9:35 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 11:50 ~~P.M.~~ ^{A.M.} Maximum Temperature 105
Initial Hydrostatic Pressure (A) 1681 P.S.I.
Initial Flow Period Minutes 20 (B) 106 P.S.I. to (C) 96 P.S.I.
Initial Closed In Period Minutes 45 (D) 150 P.S.I.
Final Flow Period Minutes 15 (E) 107 P.S.I. to (F) 77 P.S.I.
Final Closed In Period Minutes 39 (G) 85 P.S.I.
Final Hydrostatic Pressure (H) 1646 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 10/21/80 Recorder No. 10266 Capacity 4650 Test Ticket No. 4146 Location 3165 Ft.
 Clock No. --- Elevation ---- Well Temperature 105 °F

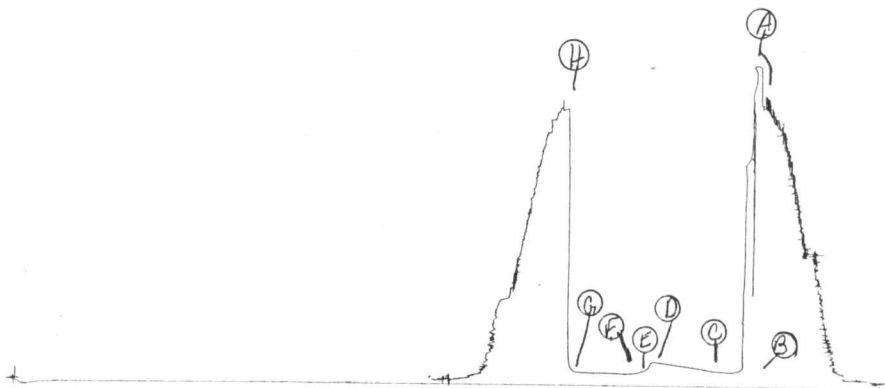
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1681</u> P.S.I.	Open Tool	<u>9:35A</u> M	
B First Initial Flow Pressure	<u>106</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>20</u> Mins.
C First Final Flow Pressure	<u>96</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>150</u> P.S.I.	Second Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
E Second Initial Flow Pressure	<u>107</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>39</u> Mins.
F Second Final Flow Pressure	<u>77</u> P.S.I.			
G Final Closed-in Pressure	<u>85</u> P.S.I.			
H Final Hydrostatic Mud	<u>1646</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>4</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>3</u> Inc.		Breakdown: <u>13</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>106</u>	<u>0</u>	<u>96</u>	<u>0</u>	<u>107</u>	<u>0</u>	<u>77</u>
P 2 <u>5</u>	<u>94</u>	<u>3</u>	<u>99</u>	<u>5</u>	<u>89</u>	<u>3</u>	<u>78</u>
P 3 <u>10</u>	<u>94</u>	<u>6</u>	<u>103</u>	<u>10</u>	<u>80</u>	<u>6</u>	<u>79</u>
P 4 <u>15</u>	<u>95</u>	<u>9</u>	<u>108</u>	<u>15</u>	<u>77</u>	<u>9</u>	<u>80</u>
P 5 <u>20</u>	<u>96</u>	<u>12</u>	<u>113</u>			<u>12</u>	<u>81</u>
P 6		<u>15</u>	<u>117</u>			<u>15</u>	<u>82</u>
P 7		<u>18</u>	<u>121</u>			<u>18</u>	<u>82</u>
P 8		<u>21</u>	<u>124</u>			<u>21</u>	<u>83</u>
P 9		<u>24</u>	<u>128</u>			<u>24</u>	<u>84</u>
P10		<u>27</u>	<u>132</u>			<u>27</u>	<u>85</u>
P11		<u>30</u>	<u>134</u>			<u>30</u>	<u>85</u>
P12		<u>33</u>	<u>138</u>			<u>33</u>	<u>85</u>
P13		<u>36</u>	<u>142</u>			<u>36</u>	<u>85</u>
P14		<u>39</u>	<u>146</u>			<u>39</u>	<u>85</u>
P15		<u>42</u>	<u>148</u>				
P16		<u>45</u>	<u>150</u>				
P17							
P18							
P19							
P20							

10266

Trt # 4146
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Company Nadel & Gussman Lease & Well No. Wood #9
 Elevation - Formation Arbuckle Effective Pay - Ft. Ticket No. 4147
 Date 10-22-80 Sec. 26 Twp. 19S Range 13W County Barton State Kansas
 Test Approved by Frank Neff Western Representative Darrell Claphan
 Formation Test No. 2 Interval Tested from 3407 ft. to 3416 ft. Total Depth 3416 ft.
 Packer Depth 3402 ft. Size 6 3/4 in. Packer Depth 3407 ft. Size 6 3/4 in.
 Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 3408 ft. Recorder Number 10266 Cap. 4650
 Bottom Recorder Depth (Outside) 3412 ft. Recorder Number 6233 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Woodman Iannitti #2 Drill Collar Length - I. D. - in.
 Mud Type Starch Viscosity 45 Weight Pipe Length 379 I. D. 2.7 in.
 Weight 9.8 Water Loss 10.0 cc. Drill Pipe Length 3008 I. D. 3.8 in.
 Chlorides 89,000 P.P.M. Test Tool Length 20 ft. Tool Size 4.5 in.
 Jars: Make - Serial Number - Anchor Length 9 ft. Size 5.5 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 1/2 in.

Blow: Initial flow period gas to surface in one minute. Oil to surface in ten minutes. Final flow period strong blow . Oil & gas surface in five minutes. See attached sheet for gas measurements.

Recovered ft. of flowed
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Remarks: Read outside recorder #6233

Time Set	Packer(s)	7:30	A.M. P.M.	Time Started Off Bottom	8:45	A.M. P.M.	Maximum Temperature	110
Initial Hydrostatic Pressure	(A)	1896	P.S.I.					
Initial Flow Period	Minutes	10	(B)	894	P.S.I. to (C)	808	P.S.I.	
Initial Closed In Period	Minutes	30	(D)	1115	P.S.I.			
Final Flow Period	Minutes	5	(E)	880	P.S.I. to (F)	815	P.S.I.	
Final Closed In Period	Minutes	30	(G)	1115	P.S.I.			
Final Hydrostatic Pressure	(H)	1869	P.S.I.					

GAS FLOW REPORT

Date 10/22/80 Ticket 4147 Company Ndel & Gussman
 Well Name and No. Wood #9 Dst No. 2 Interval Tested 3407'-3416'
 County Barton State Kansas Sec. 26 Twp. 19S 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
PRE FLOW						
opened tool at 7:30 Gas to surface in one minute.						
	5 min.	6.0 PSIG	1½" orifice			953,000 CFPD
	9 min.	9.5 PSIG	1½" orifice			1,237,000 CFPD

SECOND FLOW

GAS BOTTLE

Serial No. -- Date Bottle Filled --- Date to be Invoiced 10/22/80

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 Nadel & Gussman
 Authorized by Frank Neff

WESTERN TESTING CO., INC.

Pressure Data

Date 10/22/80 Recorder No. 6233 Capacity 4000 Test Ticket No. 4147
 Clock No. --- Elevation ----- Location 3412 Ft. ---
 Well Temperature 110 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	1896 P.S.I.	7:30P M	
B First Initial Flow Pressure	894 P.S.I.	10 Mins.	10 Mins.
C First Final Flow Pressure	808 P.S.I.	30 Mins.	30 Mins.
D Initial Closed-in Pressure	1115 P.S.I.	5 Mins.	5 Mins.
E Second Initial Flow Pressure	880 P.S.I.	30 Mins.	30 Mins.
F Second Final Flow Pressure	815 P.S.I.		
G Final Closed-in Pressure	1115 P.S.I.		
H Final Hydrostatic Mud	1869 P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>894</u>	<u>0</u>	<u>808</u>	<u>0</u>	<u>880</u>	<u>0</u>	<u>815</u>
P 2 <u>5</u>	<u>835</u>	<u>3</u>	<u>1029</u>	<u>5</u>	<u>815</u>	<u>3</u>	<u>1050</u>
P 3 <u>10</u>	<u>808</u>	<u>6</u>	<u>1058</u>			<u>6</u>	<u>1069</u>
P 4		<u>9</u>	<u>1077</u>			<u>9</u>	<u>1083</u>
P 5		<u>12</u>	<u>1087</u>			<u>12</u>	<u>1093</u>
P 6		<u>15</u>	<u>1093</u>			<u>15</u>	<u>1101</u>
P 7		<u>18</u>	<u>1099</u>			<u>18</u>	<u>1106</u>
P 8		<u>21</u>	<u>1105</u>			<u>21</u>	<u>1109</u>
P 9		<u>24</u>	<u>1109</u>			<u>24</u>	<u>1111</u>
P10		<u>27</u>	<u>1112</u>			<u>27</u>	<u>1113</u>
P11		<u>30</u>	<u>1115</u>			<u>30</u>	<u>1115</u>
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

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