



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 10967

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

Elevation 1486 KB Formation Elgin Sand Eff. Pay Ft.

District Pratt Date 5-13-81 Customer Order No.

COMPANY NAME Rine Exploration Company

ADDRESS Suite 645 300 W. Douglas Wichita, Ks. 67202

LEASE AND WELL NO. 1-34 Hunter COUNTY Harper STATE Sec. 34 Twp 31 Rge 7

Mail Invoice To Same Co. Name Address No. Copies Requested RY

Mail Charts To SAME Address No. Copies Requested RY

Formation Test No. 1 Interval Tested from 3126 ft. to 3215 ft. Total Depth 3215 ft.

Packer Depth 3121 ft. Size 6 5/8 in. Packer Depth ft. Size in.

Packer Depth 3126 ft. Size 6 5/8 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3151 ft. Recorder Number 1566 Cap. 4300

Bottom Recorder Depth (Outside) 3154 ft. Recorder Number 3086 Cap. 4500

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Slawson #4 Drill Collar Length I. D. in.

Mud Type chemical Viscosity 35 Weight Pipe Length 260 I. D. 3.2 in.

Weight 9.2 Water Loss n/c cc. Drill Pipe Length 3045 I. D. 3.8 in.

Chlorides 19,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.

Jars: Make Serial Number Anchor Length 89 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 1/4 in. Tool Joint Size 4 1/2 in.

Blow: WK Buiding to (2 1/2 inch) J.F.P. STRONG Blow depleted to (5 inch) F.F.P.

Recovered 150' ft. of Heavy gas cut Oil spotted Oil mud.

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time On Location 11:30 AM P.M. Time Pick Up Tool 1:30 AM P.M. Time Off Location AM P.M.

Time Set Packer(s) 3:00 PM Time Started Off Bottom 5:30 AM P.M. Maximum Temperature 109%

Initial Hydrostatic Pressure (A) 1538 P.S.I.

Initial Flow Period Minutes 36 (B) 86 P.S.I. to (C) 97 P.S.I.

Initial Closed In Period Minutes 30 (D) 172 P.S.I.

Final Flow Period Minutes 45 (E) 97 P.S.I. to (F) 118 P.S.I.

Final Closed In Period Minutes 45 (G) 151 P.S.I.

Final Hydrostatic Pressure (H) 1377 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 Brad Rine Signature of Customer or his authorized representative

Western Representative Michael Rynes

FIELD INVOICE

Table with 2 columns: Item, Amount. Includes Open Hole Test \$700.00, Mileage 65 \$48.75, Fluid Sampler, Extra Charts, Insurance, and TOTAL \$748.75.

WESTERN TESTING CO., INC.

Pressure Data

Date 5-13 Test Ticket No. 10967
 Recorder No. 3086 Capacity 4500 Location 3154 Ft.
 Clock No. _____ Elevation 1486 KB Well Temperature 109 °F

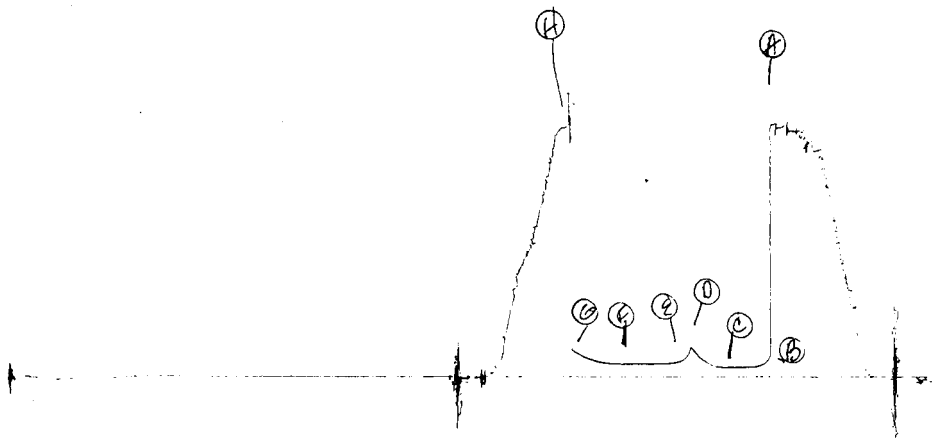
Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1514</u> P.S.I.		<u>3:00</u> P.M.	
B First Initial Flow Pressure	<u>118</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>66</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>184</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>118</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>39</u> Mins.
F Second Final Flow Pressure	<u>87</u> P.S.I.			
G Final Closed-in Pressure	<u>171</u> P.S.I.			
H Final Hydrostatic Mud	<u>1514</u> P.S.I.			

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	of:	Breakdown:	of:	Breakdown:	of:	Breakdown:	of:
	<u>6</u> Inc.	<u>5</u> mins. and a final inc. of <u>0</u> Min.	<u>10</u> Inc.	<u>3</u> mins. and a final inc. of <u>0</u> Min.	<u>9</u> Inc.	<u>5</u> mins. and a final inc. of <u>0</u> Min.	<u>13</u> Inc.	<u>3</u> mins. and a final inc. of <u>0</u> Min.
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1	<u>118</u>	0	<u>66</u>	0	<u>118</u>	0	<u>87</u>	
P 2	<u>81</u>	3	<u>66</u>	3	<u>99</u>	3	<u>87</u>	
P 3	<u>69</u>	6	<u>66</u>	6	<u>90</u>	6	<u>87</u>	
P 4	<u>66</u>	9	<u>69</u>	9	<u>88</u>	9	<u>88</u>	
P 5	<u>5</u>	12	<u>73</u>	12	<u>87</u>	12	<u>90</u>	
P 6	<u>5</u>	15	<u>88</u>	15	<u>87</u>	15	<u>92</u>	
P 7	<u>66</u>	18	<u>104</u>	18	<u>(</u>	18	<u>97</u>	
P 8		21	<u>121</u>	21	<u>(</u>	21	<u>104</u>	
P 9		24	<u>142</u>	24	<u>)</u>	24	<u>114</u>	
P10		27	<u>171</u>	27	<u>87</u>	27	<u>121</u>	
P11		30	<u>184</u>	30		30	<u>133</u>	
P12		33		33		33	<u>145</u>	
P13		36		36		36	<u>161</u>	
P14		39		39		39	<u>171</u>	
P15		42		42		42		
P16		45		45		45		
P17		48		48		48		
P18		51		51		51		
P19		54		54		54		
P20		57		57		57		
		60		60		60		

3086

JK # 10967
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Company Rine Exploration Company Lease & Well No. #1-34 Hunter
 Elevation 1486 Kelly Bushing Formation Elgin Sand Effective Pay - Ft. Ticket No. 10967
 Date 5/13/81 Sec. 34 Twp. 31S Range 7W County Harper State Kansas

Test Approved by Brad Rine Western Representative Michael Rogers

Formation Test No. 1 Interval Tested from 3126 ft. to 3215 ft. Total Depth 3215 ft.
 Packer Depth 3121 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 3126 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 3151 ft. Recorder Number 1566 Cap 4300
 Bottom Recorder Depth (Outside) 3154 ft. Recorder Number 3086 Cap 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap -

Drilling Contractor Slawson Rig #4 Drill Collar Length - I. D. - in.
 Mud Type Chemical Viscosity 35 Weight Pipe Length 60 I. D. 3.2 in.
 Weight 9.2 Water Loss N/C cc. Drill Pipe Length 3045 I. D. 3.8 in.
 Chlorides 19,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.
 Jars: Make - Serial Number - Anchor Length 89 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: Weak building to 2 1/2 inches initial flow period. Strong blow depleted to five inches final flow period.

Recovered 150 ft. of heavy gas cut & oil spotted drilling mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 3:00 ~~A.M.~~ P.M. Time Started Off Bottom 5:30 ~~A.M.~~ P.M. Maximum Temperature 109
 Initial Hydrostatic Pressure (A) 1514 P.S.I.
 Initial Flow Period Minutes 30 (B) 118 P.S.I. to (C) 66 P.S.I.
 Initial Closed In Period Minutes 30 (D) 184 P.S.I.
 Final Flow Period Minutes 45 (E) 118 P.S.I. to (F) 87 P.S.I.
 Final Closed In Period Minutes 39 (G) 171 P.S.I.
 Final Hydrostatic Pressure (H) 1514 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 5/13/81 Test Ticket No. 10967
 Recorder No. 3086 Capacity 4500 Location 3154 Ft.
 Clock No. _____ Elevation 1486 Kelly Bushing Well Temperature 109 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1514</u>	P.S.I.	<u>3:00P</u>	<u>M</u>
B First Initial Flow Pressure	<u>118</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
C First Final Flow Pressure	<u>66</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>184</u>	P.S.I.	<u>45</u>	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>118</u>	P.S.I.	<u>45</u>	<u>39</u> Mins.
F Second Final Flow Pressure	<u>87</u>	P.S.I.		
G Final Closed-in Pressure	<u>171</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1514</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: 10 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: 13 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>118</u>	<u>0</u>	<u>66</u>	<u>0</u>	<u>118</u>	<u>0</u>	<u>87</u>
P 2 <u>5</u>	<u>81</u>	<u>3</u>	<u>66</u>	<u>5</u>	<u>99</u>	<u>3</u>	<u>87</u>
P 3 <u>10</u>	<u>69</u>	<u>6</u>	<u>66</u>	<u>10</u>	<u>90</u>	<u>6</u>	<u>87</u>
P 4 <u>15</u>	<u>66</u>	<u>9</u>	<u>69</u>	<u>15</u>	<u>88</u>	<u>9</u>	<u>88</u>
P 5 <u>20</u>	<u>66</u>	<u>12</u>	<u>73</u>	<u>20</u>	<u>87</u>	<u>12</u>	<u>90</u>
P 6 <u>25</u>	<u>66</u>	<u>15</u>	<u>88</u>	<u>25</u>	<u>87</u>	<u>15</u>	<u>92</u>
P 7 <u>30</u>	<u>66</u>	<u>18</u>	<u>104</u>	<u>30</u>	<u>87</u>	<u>18</u>	<u>97</u>
P 8 _____		<u>21</u>	<u>121</u>	<u>35</u>	<u>87</u>	<u>21</u>	<u>104</u>
P 9 _____		<u>24</u>	<u>142</u>	<u>40</u>	<u>87</u>	<u>24</u>	<u>114</u>
P10 _____		<u>27</u>	<u>171</u>	<u>45</u>	<u>87</u>	<u>27</u>	<u>121</u>
P11 _____		<u>30</u>	<u>184</u>			<u>30</u>	<u>133</u>
P12 _____						<u>33</u>	<u>145</u>
P13 _____						<u>36</u>	<u>161</u>
P14 _____						<u>39</u>	<u>171</u>
P15 _____							
P16 _____							
P17 _____							
P18 _____							
P19 _____							
P20 _____							