



P. O. BOX 793 PHONE 793-7903
GREAT BEND, KANSAS

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET 21998

Formation Howard Elevation 1311 KB Eff. Pay - Ft.

District Augusta

Date 5-9-77

Customer Order No. -

COMPANY NAME Wiley R. Ash, SR.

ADDRESS R.R. 1 Box 114

Rose Hill Ra 67133

WELL NO. Hemmer B #1

COUNTY Sumner STATE Ks

Sec 19 Twp 31S Rge 2W

Oil Inv. To Same

No. Copies Requested 1

Oil Charts To Same

Address

No. Copies Requested 5

Address

Formation Test No. 1 O.K. X Misrun - Interval Tested From 2036 to 2064 Total Depth 2064

Main Hole 7 7/8 Rat Hole - Conv. X B.T. - Damaged - Yes X No Conv. - B.T. - Damaged - Yes - No

Packer Depth 2036 Ft. Size 6 3/4 Bottom Packer Depth - Ft. Size -

Address - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -

Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 28 Ft. Size 5 1/2 OD Surface Choke Size 3 1/4 In. Bottom Choke Size 3 1/4 In.

CORDERS Depth 2057 Ft. Clock No. 6800 Depth 2060 Ft. Clock No. 6896

Top Make Kuster Cap. 4200 No. 1558 Inside

Bottom Make Kuster Cap. 3150 No. 1564 Inside

Low Straddle: Depth - Rec. No. - Clock No. - Inside

Depth - Ft. Rec. No. - Clock No. - Inside

Time Set Packer 3:12 PM

Oil Open I.F.P. From 3:15 M. to 4:15 M. Hr. 60 Min. From (B) 25 36 P.S.I. To (C) 30 66 P.S.I.

Oil Closed I.C.I.P. From 4:15 M. to 5:00 M. Hr. 45 Min. (D) 220 228 P.S.I.

Oil Open F.F.P. From 5:00 M. to 6:00 M. Hr. 60 Min. From (E) 2031 P.S.I. To (F) 20 20 P.S.I.

Oil Closed F.C.I.P. From 6:00 M. to 6:45 PM Hr. 45 Min. (G) 2031 275 282 P.S.I.

Initial Hydrostatic Pressure (A) 1065 P.S.I. Final Hydrostatic Pressure (H) 1060 P.S.I. Maximum Temp. 98 98

INFORMATION

LOW Gain diminishing slightly at end of test

Oil Well Flow - Yes X No Recovery Total Ft. 30 Only mud

Reversed Out - Yes X No Mud Type Starch Viscosity 38 Weight 9.8 Water Loss 28.4 cc. Chlorides 56,000

EXTRA EQUIPMENT: Type Circ. Sub. Per Safety Joint - Jars: Size - In. Make - Ser. No. -

Equal Packers 76 Did Packers Hold? Yes Did Tool Plug? Yes Where? -

DRILLING CONTRACTOR Red Tiger Drilling Co. #1 Length Drill Pipe 1121 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe 900 ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 4 1/2 FH In. Length Drill Collars - ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 43 ft.

Remarks

INVOICE SECTION

Open Hole Test	\$ <u>380.00</u>
Straddle Test	\$ <u>-</u>
Jars	\$ <u>-</u>
Selective Zone	\$ <u>-</u>
Safety Joint	\$ <u>-</u>
Misrun	\$ <u>-</u>
Evaluation	\$ <u>-</u>
Packer	\$ <u>-</u>
Circ. Sub.	\$ <u>-</u>
Total	\$ <u>380.00</u>

COMPANY TERMS

Western Testing Co., Inc., shall not be liable for damage 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, or 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.

Charges subject to 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Wiley R. Ash
Signature of Customer or his
Authorized Representative

Western Representative Norman Allen

Operator's Time Sam McCloud Hrs.

WESTERN TESTING CO., INC.

Pressure Data

Date 5-9-77 Test Ticket No. 21998
 Recorder No. 1558 Capacity 4200 Location 2057 Ft.
 Clock No. 6800 Elevation 1311 Kelly Boring Well Temperature 98 °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1065</u> P.S.I.		<u>3:12 P</u> M	
B First Initial Flow Pressure	<u>36</u> P.S.I.	First Flow Pressure	<u>60</u> Mins.	<u>55</u> Mins.
C First Final Flow Pressure	<u>66</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>228</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>31</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>20</u> P.S.I.			
G Final Closed-in Pressure	<u>282</u> P.S.I.			
H Final Hydrostatic Mud	<u>1060</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>11</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>15</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>36</u>	<u>0</u>	<u>66</u>	<u>0</u>	<u>31</u>	<u>0</u>	<u>20</u>
P 2 <u>5</u>	<u>44</u>	<u>3</u>	<u>36</u>	<u>5</u>	<u>20</u>	<u>3</u>	<u>23</u>
P 3 <u>10</u>	<u>45</u>	<u>6</u>	<u>56</u>	<u>10</u>	<u>20</u>	<u>6</u>	<u>42</u>
P 4 <u>15</u>	<u>47</u>	<u>9</u>	<u>79</u>	<u>15</u>	↓	<u>9</u>	<u>63</u>
P 5 <u>20</u>	<u>48</u>	<u>12</u>	<u>105</u>	<u>20</u>		<u>12</u>	<u>85</u>
P 6 <u>25</u>	<u>50</u>	<u>15</u>	<u>128</u>	<u>25</u>		<u>15</u>	<u>108</u>
P 7 <u>30</u>	<u>59</u>	<u>18</u>	<u>153</u>	<u>30</u>		<u>18</u>	<u>127</u>
P 8 <u>35</u>	<u>60</u>	<u>21</u>	<u>173</u>	<u>35</u>		<u>21</u>	<u>149</u>
P 9 <u>40</u>	<u>64</u>	<u>24</u>	<u>194</u>	<u>40</u>		<u>24</u>	<u>169</u>
P10 <u>45</u>	<u>64</u>	<u>27</u>	<u>215</u>	<u>45</u>		<u>27</u>	<u>190</u>
P11 <u>50</u>	<u>65</u>	<u>30</u>	<u>228</u>	<u>50</u>		<u>30</u>	<u>208</u>
P12 <u>55</u>	<u>66</u>	<u>33</u>		<u>55</u>		<u>33</u>	<u>227</u>
P13 <u>60</u>		<u>36</u>		<u>60</u>		<u>20</u>	<u>36</u>
P14		<u>39</u>		<u>65</u>		<u>39</u>	<u>261</u>
P15		<u>42</u>		<u>70</u>		<u>42</u>	<u>278</u>
P16		<u>45</u>		<u>75</u>		<u>45</u>	<u>282</u>
P17		<u>48</u>		<u>80</u>		<u>48</u>	
P18		<u>51</u>		<u>85</u>		<u>51</u>	
P19		<u>54</u>		<u>90</u>		<u>54</u>	
P20		<u>57</u>				<u>57</u>	
		<u>60</u>				<u>60</u>	

TK-#21998

II

(H)

(K)

(G)

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(E)

(C)

(J)

(I)



Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Wiley R. Ash, Sr. Lease & Well No. Hemmen B-#1
Elevation 1311 Kelly Bushing Formation Howard Effective Pay - Ft. Ticker No. 21998
Date 5-9-77 Sec. 19 Twp. 31S Range 2W County Sumner State Kansas
Test Approved by Wiley R. Ash Western Representative Norman Allen
Formation Test No. 1 O.K. ☒ Misrun ☐ Interval Tested From 2036' to 2064' Total Depth 2064'
Size Main Hole 77/8 Rat Hole ☐ Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No
Top Packer Depth 2036 Ft. Size 6 3/4 Bottom Packer Depth - Ft. Size -
Straddle ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No Packer Depth - Ft. Size -
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 28 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 2057 Ft. Clock No. 6800 Depth 2060 Ft. Clock No. 6896
Top Make Kuster Cap. 4200 No. 1558 Inside Outside Bottom Make Kuster Cap. 3150 No. 1564 Inside Outside
Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside
Time Set Packer 3:12 P.M.
Tool Open I.F.P. From 3:15 P.M. to 4:15 P.M. 1 Hr. - Min. From (B) 36 P.S.I. To (C) 66 P.S.I.
Tool Closed I.C.I.P. From 4:15 P.M. to 5:00 P.M. - Hr. 45 Min (D) 228 P.S.I.
Tool Open F.F.P. From 5:00 P.M. to 6:00 P.M. 1 Hr. - Min. From (E) 31 P.S.I. To (F) 20 P.S.I.
Tool Closed F.C.I.P. From 6:00 P.M. to 6:45 P.M. - Hr. 45 Min. (G) 282 P.S.I.
Initial Hydrostatic Pressure (A) 1065 P.S.I. Final Hydrostatic Pressure (H) 1060 P.S.I. Maximum Temp. 98

INFORMATION

BLOW Fair diminishing slightly at end of test.

Did Well Flow ☐ Yes ☒ No Recovery Total Ft. 30' drilling mud.

Reversed Out ☐ Yes ☒ No Mud Type starch Viscosity 38 Weight 9.8 Water Loss 28.4 cc. Chlorides 56,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer No Did Packers Hold? Yes Did Tool Plug? No Where? -

DRILLING CONTRACTOR Red Tiger Drllg. Co. Length Drill Pipe? 1121 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe 900 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 4 1/2 FH In. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 43 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 5-9-77 Test Ticket No. 21998
 Recorder No. 1558 Capacity 4200 Location 2057 Ft.
 Clock No. 6800 Elevation 1311 Kelly Rushing Well Temperature 98 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1065 P.S.I.	Open Tool	3:12 P M	
B First Initial Flow Pressure	36 P.S.I.	First Flow Pressure	60 Mins.	55 Mins.
C First Final Flow Pressure	66 P.S.I.	Initial Closed-in Pressure	45 Mins.	30 Mins.
D Initial Closed-in Pressure	228 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	31 P.S.I.	Final Closed-in Pressure	45 Mins.	45 Mins.
F Second Final Flow Pressure	20 P.S.I.			
G Final Closed-in Pressure	282 P.S.I.			
H Final Hydrostatic Mud	1060 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>11</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>15</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 0	36	0	66	0	31	0	20
P 2 5	44	3	36	5	20	3	23
P 3 10	45	6	56	10	20	6	42
P 4 15	47	9	79	15	20	9	63
P 5 20	48	12	105	20	20	12	85
P 6 25	50	15	128	25	20	15	108
P 7 30	59	18	153	30	20	18	127
P 8 35	60	21	173	35	20	21	149
P 9 40	64	24	194	40	20	24	169
P10 45	64	27	215	45	20	27	190
P11 50	65	30	228	50	20	30	208
P12 55	66			55	20	33	227
P13				60	20	36	242
P14						39	261
P15						42	278
P16						45	282
P17							
P18							
P19							
P20							