



WESTERN TESTING CO., Inc.
P. O. Box 1599
WICHITA, KANSAS
67201

DATE 11-12-77

Jerry E. Shawver
Suite 950 200 W. Douglas
Wichita, Kansas 67202

CHARGE TO

Well Report No. 22565
Unit No.
District

FOR CUSTOMER'S USE ONLY

Register No.	Voucher No.
Terms Approved	Price Approved
Calculations Checked	
Adjustments	
Accounting Distribution	
Audited	Final Approval

Your Order No.	Owner	Contractor	Audited	Final Approval
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Well No. E-#1 Farm Young & Cooper Cattle Co. County Cowley Sec. 12 Twp. 31S Range 7E

One drill stem test from 2254' to 2290' (Test #1) \$ 380.00

POSTED

Discount \$ 7.60	2% Discount Allowed on This Invoice If Paid by 20th of Following Month	Invoice No. 22565
IN REMITTING PLEASE GIVE OUR INVOICE NUMBER		

SEND ALL REMITTANCES TO POST OFFICE BOX 1599, WICHITA, KANSAS 67201



WESTERN TESTING CO., INC.
FORMATION TESTING

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

TICKET 22565

Formation Cleveland Elevation 1388 K.B. Eff. Pay Ft.

District Augusta Date 11-12-77 Customer Order No. -

COMPANY NAME Jerry E. Shawver Shawver

ADDRESS Suite 958 200 W Douglas Wichita, KS 67202

LEASE AND WELL NO Young + Cooper Cattle Co. E #1 COUNTY Cowley STATE KS Sec 12 Twp 315 Rge 7E

Mail Inv. To Same Co. Name Address No. Copies Requested 1

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 1 O.K. Misrun - Interval Tested From 2264' to 2290' Total Depth 2290'

Size Main Hole 7 7/8 Rat Hole 6 3/8 Conv. B.T. Damaged - Yes No Conv. B.T. Damaged - Yes

Top Packer Depth 2259 Ft. Size 6 3/4 Bottom Packer Depth 2264 Ft. Size 6 3/4

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

Tool Size 4 1/2 OD Tool Joint Size 3 1/2 IF Anchor Length 26 Ft. Size 4500 Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 2283 Ft. Clock No. 6866 Depth 2286 Ft. Clock No. 10167 - 5

Top Make Kuster Cap. 4200 No. 1558 Bottom Make Kuster Cap. 4200 No. 1559

Below Straddle: Depth Rec. No. Clock No. Depth Ft. Rec. No. Clock No.

Time Set Packer 11:22 P M

Tool Open I.F.P. From 11:25 M. to 11:55 M. Hr. 30 Min. From (B) 84 108 P.S.I. To (C) 94 95 P.S.I.

Tool Closed I.C.I.P. From 11:55 M. to 12:55 M. Hr. 60 Min. (D) 818 820 P.S.I.

Tool Open F.F.P. From 12:55 M. to 1:55 M. Hr. 60 Min. From (E) 147 157 P.S.I. To (F) 158 192 P.S.I.

Tool Closed F.C.I.P. From 1:55 M. to 3:55 AM. Hr. 120 Min. (G) 818 795 P.S.I.

Initial Hydrostatic Pressure (A) 1163 P.S.I. Final Hydrostatic Pressure (H) 1152 P.S.I. Maximum Temp. 106

INFORMATION

BLOW Strong decreasing to Hair on I.F.P. - Fair throughout F.F.P.

Did Well Flow - Yes No Recovery Total Ft. 39.5 total fluid - 35' mud - 300' water

(72,000 ppm chlorides) 115' gas in pipe.

Reversed Out - Yes No Mud Type chem Viscosity 44 Weight 9.5 Water Loss 9.2 cc. Chlorides 1900 PPM

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

Dual Packers yes Did Packers Hold? yes Did Tool Plug? no Where? -

DRILLING CONTRACTOR TWE #3 Length Drill Pipe 1972 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.

Length Weight Pipe - White ellipt. O.D. #3 In. Tool Joint Size - In. Length Drill Collars 270 ft. I.D. Drill Collars 2.25 In.

Tool Joint Size 4 1/2 XH In. Length D.S.T. Tool 48 ft.

Remarks Set Packer 3' above 6 3/8 core hole

INVOICE SECTION

Table with 2 columns: Item, Amount. Includes Open Hole Test (\$380), Straddle Test, Jars, Selective Zone, Safety Joint, Misrun, Evaluation, Packer, Circ. Sub., Total (\$380).

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.

All charges subject to 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount. \$ 7.60

Test Approved By Charles J. Slagle Western Representative Sam McClune

Signature of Customer or his Authorized Representative

Operator's Time

Hrs.

WESTERN TESTING CO., INC.

Pressure Data

Date 11-12-77 Test Ticket No. 22565
 Recorder No. 1558 Capacity 4200 Location 2283 Ft.
 Clock No. 6866 Elevation 1388 Kelly Bushing Well Temperature 106 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1165</u>	P.S.I.	<u>11:22P</u> M	
B First Initial Flow Pressure	<u>108</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>95</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>820</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>177</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>192</u>	P.S.I.	<u>120</u> Mins.	<u>120</u> Mins.
G Final Closed-in Pressure	<u>795</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1147</u>	P.S.I.		

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In			
	Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>40</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.			
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>108</u>	<u>0</u>	<u>95</u>	<u>0</u>	<u>177</u>	<u>0</u>	<u>192</u>
P 2	<u>89</u>	<u>3</u>	<u>243</u>	<u>5</u>	<u>152</u>	<u>3</u>	<u>340</u>
P 3	<u>83</u>	<u>6</u>	<u>430</u>	<u>10</u>	<u>146</u>	<u>6</u>	<u>454</u>
P 4	<u>83</u>	<u>9</u>	<u>547</u>	<u>15</u>	<u>144</u>	<u>9</u>	<u>525</u>
P 5	<u>87</u>	<u>12</u>	<u>605</u>	<u>20</u>	<u>147</u>	<u>12</u>	<u>581</u>
P 6	<u>93</u>	<u>15</u>	<u>654</u>	<u>25</u>	<u>150</u>	<u>15</u>	<u>625</u>
P 7	<u>95</u>	<u>18</u>	<u>686</u>	<u>30</u>	<u>152</u>	<u>18</u>	<u>657</u>
P 8		<u>21</u>	<u>712</u>	<u>35</u>	<u>155</u>	<u>21</u>	<u>677</u>
P 9		<u>24</u>	<u>732</u>	<u>40</u>	<u>157</u>	<u>24</u>	<u>699</u>
P 10		<u>27</u>	<u>748</u>	<u>45</u>	<u>160</u>	<u>27</u>	<u>715</u>
P 11		<u>30</u>	<u>761</u>	<u>50</u>	<u>162</u>	<u>30</u>	<u>729</u>
P 12		<u>33</u>	<u>771</u>	<u>55</u>	<u>172</u>	<u>33</u>	<u>741</u>
P 13		<u>36</u>	<u>782</u>	<u>60</u>	<u>192</u>	<u>36</u>	<u>750</u>
P 14		<u>39</u>	<u>789</u>	<u>65</u>		<u>39</u>	<u>758</u>
P 15		<u>42</u>	<u>797</u>	<u>70</u>		<u>42</u>	<u>765</u>
P 16		<u>45</u>	<u>804</u>	<u>75</u>		<u>45</u>	<u>771</u>
P 17		<u>48</u>	<u>810</u>	<u>80</u>		<u>48</u>	<u>778</u>
P 18		<u>51</u>	<u>814</u>	<u>85</u>		<u>51</u>	<u>782</u>
P 19		<u>54</u>	<u>818</u>	<u>90</u>		<u>54</u>	<u>785</u>
P 20		<u>57</u>	<u>820</u>			<u>57</u>	<u>789</u>
		<u>60</u>	<u>820</u>			<u>60</u>	<u>794</u>

WESTERN TESTING CO., INC.

Pressure Data

Date _____ Test Ticket No. _____

Recorder No. _____ Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud _____	P.S.I.	Open Tool _____	M _____
B First Initial Flow Pressure _____	P.S.I.	First Flow Pressure _____	Mins. _____ Mins.
C First Final Flow Pressure _____	P.S.I.	Initial Closed-in Pressure _____	Mins. _____ Mins.
D Initial Closed-in Pressure _____	P.S.I.	Second Flow Pressure _____	Mins. _____ Mins.
E Second Initial Flow Pressure _____	P.S.I.	Final Closed-in Pressure _____	Mins. _____ Mins.
F Second Final Flow Pressure _____	P.S.I.		
G Final Closed-in Pressure _____	P.S.I.		
H Final Hydrostatic Mud _____	P.S.I.		

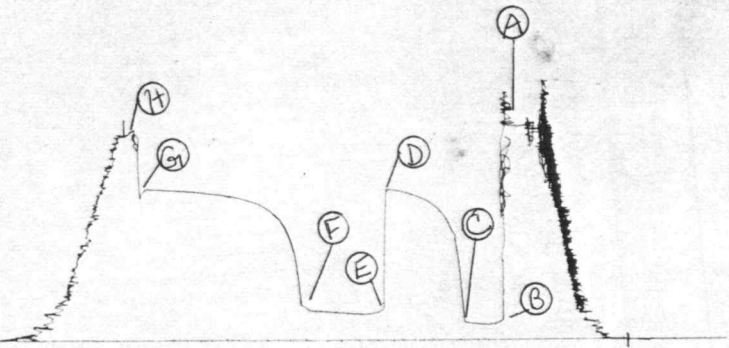
PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.
	Press.	Point Minutes	Press.	Point Minutes
P 1	_____	_____	_____	63 797
P 2	_____	_____	_____	66 801
P 3	_____	_____	_____	69 802
P 4	_____	_____	_____	72 805
P 5	_____	_____	_____	75 808
P 6	_____	_____	_____	78 811
P 7	_____	_____	_____	81 813
P 8	_____	_____	_____	84 815
P 9	_____	_____	_____	87 816
P 10	_____	_____	_____	90 818
P 11	_____	_____	_____	93 819
P 12	_____	_____	_____	96 820
P 13	_____	_____	_____	99 821
P 14	_____	_____	_____	102 823
P 15	_____	_____	_____	105 824
P 16	_____	_____	_____	108 825
P 17	_____	_____	_____	111 827
P 18	_____	_____	_____	114 828
P 19	_____	_____	_____	117 813
P 20	_____	_____	_____	120 795

8551

TKT# 22565

I.





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

Company Jerry E. Shawver Lease & Well No. Young & Cooper Cattle Co. E - #1

Elevation 1388 Kelly Bush. Formation Cleveland Effective Pay - Ft. Ticket No. 22565

Date 11-12-77 Sec. 12 Twp. 31S Range 7E County Cowley State Kansas

Test Approved by Charles J. Slagle Western Representative Sam McClune

Formation Test No. 1 O.K. Misrun Interval Tested From 2264' to 2290' Total Depth 2290'

Size Main Hole 7-7/8 Rat Hole 6-1/8 Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No

Top Packer Depth 2259 Ft. Size 6-3/4 Bottom Packer Depth 2264 Ft. Size 6-3/4

Straddle Conv. B.T. Damaged Yes No Packer Depth Ft. Size

Tool Size 4 1/2 OD Tool Joint Size 3 1/2 IF Anchor Length 26 Ft. Size 4 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 2283 Ft. Clock No. 6866 Depth 2286 Ft. Clock No. 10167

Top Make Kuster Cap. 4200 No. 1558 Inside Bottom Make Kuster Cap. 4200 No. 1559 Outside

Below Straddle: Depth Rec. No. Clock No. Outside Depth Ft. Rec. No. Clock No. Outside

Time Set Packer 11:22P M

Tool Open I.F.P. From 11:25 M. to 11:55 M. Hr. 30 Min. From (B) 108 P.S.I. To (C) 95 P.S.I.

Tool Closed I.C.I.P. From 11:55 M. to 12:55A M. Hr. 60 Min (D) 820 P.S.I.

Tool Open F.F.P. From 12:55A M. to 1:55 A.M. Hr. 60 Min. From (E) 177 P.S.I. To (F) 192 P.S.I.

Tool Closed F.C.I.P. From 1:55 M. to 3:55A M. Hr. 120 Min. (G) 795 P.S.I.

Initial Hydrostatic Pressure (A) 1165 P.S.I. Final Hydrostatic Pressure (H) 1147 P.S.I. Maximum Temp. 106°

INFORMATION

BLOW Strong decreasing to fair on initial flow period. Fair throughout final flow period.

Did Well Flow Yes No Recovery Total Ft. 335' total fluid - 35' Mud - 300' Water 115' Gas in pipe.

(72,000 P.P.M. CHLORIDES)

Reversed Out Yes No Mud Type Chem Viscosity 44 Weight 9.5 Water Loss 9.2 cc. Chlorides 1900 P.P.M.

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

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? NO Where?

DRILLING CONTRACTOR White & Ellis Drls. #3 Length Drill Pipe? 1972 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.

Length Weight Pipe Ft. I.D. Weight Pipe In. Tool Joint Size In. Length Drill Collars 270 Ft. I.D. Drill Collars 2.25 In.

Tool Joint Size 4 1/2 H90 In. Length D.S.T. Tool 48 Ft.

Remarks:

Set Packer 3' above 6-1/8 core hole.
Clock #10167 in recorder #1559 stopped.

WESTERN TESTING CO., INC.
Pressure Data

Date 11-12-77 Test Ticket No. 22565
 Recorder No. 1558 Capacity 4200 Location 2283 Ft.
 Block No. 6866 Elevation 1388 Kelly Bushing Well Temperature 106 °F

Point		Pressure		Time Given		Time Computed	
Initial Hydrostatic Mud	<u>1165</u>	P.S.I.	Open Tool	<u>11:22P</u>	M		
First Initial Flow Pressure	<u>108</u>	P.S.I.	First Flow Pressure	<u>30</u>	Mins.	<u>30</u>	Mins.
First Final Flow Pressure	<u>95</u>	P.S.I.	Initial Closed-in Pressure	<u>60</u>	Mins.	<u>60</u>	Mins.
Initial Closed-in Pressure	<u>820</u>	P.S.I.	Second Flow Pressure	<u>60</u>	Mins.	<u>60</u>	Mins.
Second Initial Flow Pressure	<u>177</u>	P.S.I.	Final Closed-in Pressure	<u>120</u>	Mins.	<u>120</u>	Mins.
Second Final Flow Pressure	<u>192</u>	P.S.I.					
Final Closed-in Pressure	<u>795</u>	P.S.I.					
Final Hydrostatic Mud	<u>1147</u>	P.S.I.					

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown:	<u>6</u> Inc.	Breakdown:	<u>20</u> Inc.	Breakdown:	<u>12</u> Inc.	Breakdown:	<u>40</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> 108	<u>0</u> 95	<u>0</u> 177	<u>0</u> 192			
P 2	<u>5</u> 89	<u>3</u> 243	<u>5</u> 152	<u>3</u> 340			
P 3	<u>10</u> 83	<u>6</u> 430	<u>10</u> 146	<u>6</u> 456			
P 4	<u>15</u> 83	<u>9</u> 547	<u>15</u> 144	<u>9</u> 525			
P 5	<u>20</u> 87	<u>12</u> 605	<u>20</u> 147	<u>12</u> 581			
P 6	<u>25</u> 93	<u>15</u> 654	<u>25</u> 150	<u>15</u> 625			
P 7	<u>30</u> 95	<u>18</u> 686	<u>30</u> 152	<u>18</u> 657			
P 8		<u>21</u> 712	<u>35</u> 155	<u>21</u> 677			
P 9		<u>24</u> 732	<u>40</u> 157	<u>24</u> 699			
P 10		<u>27</u> 748	<u>45</u> 160	<u>27</u> 715			
P 11		<u>30</u> 761	<u>50</u> 162	<u>30</u> 729			
P 12		<u>33</u> 771	<u>55</u> 172	<u>33</u> 741			
P 13		<u>36</u> 782	<u>60</u> 192	<u>36</u> 750			
P 14		<u>39</u> 789		<u>39</u> 758			
P 15		<u>42</u> 797		<u>42</u> 765			
P 16		<u>45</u> 804		<u>45</u> 771			
P 17		<u>48</u> 810		<u>48</u> 778			
P 18		<u>51</u> 814		<u>51</u> 782			
P 19		<u>54</u> 818		<u>54</u> 785			
P 20		<u>57</u> 820		<u>57</u> 789			
		<u>60</u> 820					

Cont. on next page

WESTERN TESTING CO., INC.
Pressure Data

Date 11-12-77 Test Ticket No. 22565
 Order No. 1558 Capacity 4200 Location 2283 Ft.
 Well No. 6866 Elevation 1388 Kelly Bushing Well Temperature 106 °F

Shut-In	Pressure		Time Given	Time Computed
Initial Hydrostatic Mud	<u>1165</u> P.S.I.	Open Tool	<u>11:22P</u> M	
First Initial Flow Pressure	<u>108</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
First Final Flow Pressure	<u>95</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
Initial Closed-in Pressure	<u>820</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
Second Initial Flow Pressure	<u>177</u> P.S.I.	Final Closed-in Pressure	<u>120</u> Mins.	<u>120</u> Mins.
Second Final Flow Pressure	<u>192</u> P.S.I.			
Final Closed-in Pressure	<u>795</u> P.S.I.			
Final Hydrostatic Mud	<u>1147</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>40</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.	
Shut-In	Press.	Point	Press.	Point	Press.	Point	Press.
mins.		Minutes		Minutes		Minutes	
1						60	794
2						63	797
3						66	801
4						69	802
5						72	805
6						75	808
7						78	811
8						81	813
9						84	815
0						87	816
1						80	818
2						83	189
3						86	820
4						88	821
5						102	823
6						105	824
7						108	825
8						111	827
9						114	828
0						117	813
						120	795



WESTERN TESTING CO., Inc.
P. O. Box 1599
WICHITA, KANSAS
67201

DATE 11-13677

Well Report No. 22566
Unit No.
District

FOR CUSTOMER'S USE ONLY

Register No.	Voucher No.
Terms Approved	Price Approved
Calculations Checked	
Adjustments	
Accounting Distribution	
Audited	Final Approval

CHARGE TO

Jerry E. Shawver
Suite 950
200 W. Douglas
Wichita, Kansas 67202

Your Order No.

Owner

Contractor

Well No.

E-71

Farm

Young & Cooper Cattle Co.

County

Cowley

Sec.

12

Twp.

31S

Range

7E

One drill stem test from 2182' to 2202' (Test #2)

\$ 380.00

Straddle Test

175.00

Packer

125.00

\$ 680.00

POSTED

Discount \$ 13.60	2% Discount Allowed on This Invoice If Paid by 20th of Following Month	Invoice No. 22566
IN REMITTING PLEASE GIVE OUR INVOICE NUMBER		

SEND ALL REMITTANCES TO POST OFFICE BOX 1599, WICHITA, KANSAS 67201



WESTERN TESTING CO., INC.
FORMATION TESTING

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

TICKET 22566
Formation 2 City Elevation 1388 Eff. Pay _____ Ft.

District Augusta Date 11-13-77 Customer Order No. _____

COMPANY NAME Jerry E. Shawver Shawver

ADDRESS Suite 950 - 200 W. Douglas Wichita, Kas. 67202

LEASE AND WELL NO. Young & Cooper Cattle Co. #1 COUNTY Cowley STATE Kans. Sec. 12 Twp. 31S Rge. 7E

Mail Inv. To Same No. Copies Requested 1

Co. Name _____ Address _____ No. Copies Requested 5

Mail Charts To Same Address _____ No. Copies Requested 5

Formation Test No. 2 O.K. Misrun Interval Tested From 2192' to 2202' Total Depth 2290'

Size Main Hole 7 7/8 Rat Hole 6 3/8 Conv. B.T. Damaged Yes 4 No Conv. B.T. Damaged Yes No

Top Packer Depth 2177 Ft. Size 6 3/4 Bottom Packer Depth 2182 Ft. Size 6 3/4

Straddle yes Conv. B.T. Damaged Yes No Packer Depth 2202 Ft. Size 6 3/4

Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 20 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 2195 Ft. Clock No. 9103 Depth 2198 Ft. Clock No. 6896

Top Make Kuster Cap. 3150 No. 1562 Inside Outside Bottom Make Kuster Cap. 4200 No. 1558 Inside Outside

Below Straddle: Depth 2282 Rec. No. 1559 Clock No. 10167 Inside Outside Depth 2286 Ft. Rec. No. 1561 Clock No. 9722 Inside Outside

Time Set Packer 1:07 P.M.

Tool Open I.F.P. From 1:10 P.M. to 1:40 P.M. Hr. 30 Min. From (B) 23 20 P.S.I. To (C) 78 83 P.S.I.

Tool Closed I.C.I.P. From 1:40 P.M. to 2:40 P.M. Hr. 60 Min. (D) 675 676 P.S.I.

Tool Open F.F.P. From 2:40 P.M. to 3:40 P.M. Hr. 60 Min. From (E) 109 133 P.S.I. To (F) 165 145 P.S.I.

Tool Closed F.C.I.P. From 3:40 P.M. to 5:40 P.M. Hr. 120 Min. (G) 675 678 P.S.I.

Initial Hydrostatic Pressure (A) 1089 P.S.I. 1099 Final Hydrostatic Pressure (H) 1073 1090 P.S.I. Maximum Temp. 1040

INFORMATION

BLOW Weak building to fair.

Did Well Flow Yes No Recovery Total Ft. 302 slight gas cut muddy water (98,000 ppm chlorides)

Reversed Out Yes No Mud Type Chem Viscosity 44 Weight 9.5 Water Loss 12.8 cc. Chlorides 1900 PPM

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

Dual Packers Triple Did Packers Hold? yes Did Tool Plug? no Where? _____

DRILLING CONTRACTOR White & Ellis #3 Length Drill Pipe 1898 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 In.

Length Weight Pipe _____ ft. I.D. Weight Pipe _____ In. Tool Joint Size _____ In. Length Drill Collars 270 ft. I.D. Drill Collars 2.25 In.

Tool Joint Size 4 1/2 - H40 In. Length D.S.T. Tool 121 ft.

Remarks _____

INVOICE SECTION

Open Hole Test	\$ <u>390.00</u>
Straddle Test	\$ <u>175.00</u>
Jars	\$ _____
Selective Zone	\$ _____
Safety Joint	\$ _____
Misrun	\$ _____
Evaluation	\$ _____
<u>Packer</u>	\$ <u>125.00</u>
Circ. Sub.	\$ _____
Total	\$ <u>690.00</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.

All 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 Charles J. Skagle Western Representative Sam McDune

Signature of Customer or his Authorized Representative Charles J. Skagle Operator's Time Tim Wilson Hrs.

Disc
13.60

WESTERN TESTING CO., INC.

Pressure Data

Date 11-13-77 Test Ticket No. 22566
 Recorder No. 1562 Capacity 3150 Location 2195 Ft.
 Clock No. 9103 Elevation 1388 Kelly Bushing Well Temperature 104 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>1099</u>	P.S.I.	<u>1:07 P.</u>	<u>M</u>
B. First Initial Flow Pressure	<u>20</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
C. First Final Flow Pressure	<u>83</u>	P.S.I.	<u>60</u>	<u>57</u> Mins.
D. Initial Closed-in Pressure	<u>676</u>	P.S.I.	<u>60</u>	<u>60</u> Mins.
E. Second Initial Flow Pressure	<u>123</u>	P.S.I.	<u>120</u>	<u>117</u> Mins.
F. Second Final Flow Pressure	<u>163</u>	P.S.I.		
G. Final Closed-in Pressure	<u>678</u>	P.S.I.		
H. Final Hydrostatic Mud	<u>1090</u>	P.S.I.		

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	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>20</u>	<u>0</u>	<u>83</u>	<u>0</u>	<u>123</u>	<u>0</u>	<u>163</u>	
P 2 <u>5</u>	<u>30</u>	<u>3</u>	<u>345</u>	<u>5</u>	<u>115</u>	<u>3</u>	<u>445</u>	
P 3 <u>10</u>	<u>42</u>	<u>6</u>	<u>553</u>	<u>10</u>	<u>118</u>	<u>6</u>	<u>542</u>	
P 4 <u>15</u>	<u>52</u>	<u>9</u>	<u>593</u>	<u>15</u>	<u>124</u>	<u>9</u>	<u>575</u>	
P 5 <u>20</u>	<u>64</u>	<u>12</u>	<u>613</u>	<u>20</u>	<u>130</u>	<u>12</u>	<u>594</u>	
P 6 <u>25</u>	<u>74</u>	<u>15</u>	<u>626</u>	<u>25</u>	<u>139</u>	<u>15</u>	<u>605</u>	
P 7 <u>30</u>	<u>83</u>	<u>18</u>	<u>637</u>	<u>30</u>	<u>146</u>	<u>18</u>	<u>615</u>	
P 8 <u>35</u>		<u>21</u>	<u>644</u>	<u>35</u>	<u>149</u>	<u>21</u>	<u>623</u>	
P 9 <u>40</u>		<u>24</u>	<u>650</u>	<u>40</u>	<u>152</u>	<u>24</u>	<u>629</u>	
P 10 <u>45</u>		<u>27</u>	<u>654</u>	<u>45</u>	<u>156</u>	<u>27</u>	<u>635</u>	
P 11 <u>50</u>		<u>30</u>	<u>658</u>	<u>50</u>	<u>159</u>	<u>30</u>	<u>639</u>	
P 12 <u>55</u>		<u>33</u>	<u>661</u>	<u>55</u>	<u>162</u>	<u>33</u>	<u>643</u>	
P 13 <u>60</u>		<u>36</u>	<u>665</u>	<u>60</u>	<u>165</u>	<u>36</u>	<u>646</u>	
P 14		<u>39</u>	<u>667</u>	<u>65</u>		<u>39</u>	<u>647</u>	
P 15		<u>42</u>	<u>669</u>	<u>70</u>		<u>42</u>	<u>651</u>	
P 16		<u>45</u>	<u>671</u>	<u>75</u>		<u>45</u>	<u>652</u>	
P 17		<u>48</u>	<u>672</u>	<u>80</u>		<u>48</u>	<u>654</u>	
P 18		<u>51</u>	<u>675</u>	<u>85</u>		<u>51</u>	<u>656</u>	
P 19		<u>54</u>	<u>676</u>	<u>90</u>		<u>54</u>	<u>657</u>	
P 20		<u>57</u>	<u>676</u>			<u>57</u>	<u>659</u>	
		60				<u>60</u>	<u>661</u>	

WESTERN TESTING CO., INC.

Pressure Data

Date _____ Test Ticket No. _____
 Recorder No. _____ Capacity _____ Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature _____ °F

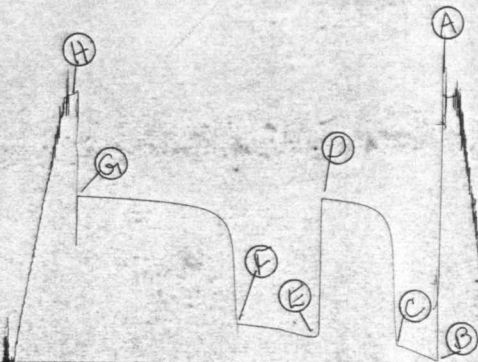
Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud _____	P.S.I. _____	Open Tool _____	M _____
B First Initial Flow Pressure _____	P.S.I. _____	First Flow Pressure _____	Mins. _____ Mins. _____
C First Final Flow Pressure _____	P.S.I. _____	Initial Closed-in Pressure _____	Mins. _____ Mins. _____
D Initial Closed-in Pressure _____	P.S.I. _____	Second Flow Pressure _____	Mins. _____ Mins. _____
E Second Initial Flow Pressure _____	P.S.I. _____	Final Closed-in Pressure _____	Mins. _____ Mins. _____
F Second Final Flow Pressure _____	P.S.I. _____		
G Final Closed-in Pressure _____	P.S.I. _____		
H Final Hydrostatic Mud _____	P.S.I. _____		

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In			
	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.	Breakdown: <u>39</u> Inc. of _____ mins. and a final inc. of _____ Min.			
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	_____	_____	_____	_____	_____	<u>63</u>	<u>6663</u>
P 2	_____	_____	_____	_____	_____	<u>66</u>	<u>6664</u>
P 3	_____	_____	_____	_____	_____	<u>69</u>	<u>6665</u>
P 4	_____	_____	_____	_____	_____	<u>72</u>	<u>6666</u>
P 5	_____	_____	_____	_____	_____	<u>75</u>	<u>6667</u>
P 6	_____	_____	_____	_____	_____	<u>78</u>	<u>6668</u>
P 7	_____	_____	_____	_____	_____	<u>81</u>	<u>6669</u>
P 8	_____	_____	_____	_____	_____	<u>84</u>	<u>6670</u>
P 9	_____	_____	_____	_____	_____	<u>87</u>	<u>6671</u>
P 10	_____	_____	_____	_____	_____	<u>90</u>	<u>6671</u>
P 11	_____	_____	_____	_____	_____	<u>93</u>	<u>6672</u>
P 12	_____	_____	_____	_____	_____	<u>96</u>	<u>6673</u>
P 13	_____	_____	_____	_____	_____	<u>99</u>	<u>6674</u>
P 14	_____	_____	_____	_____	_____	<u>102</u>	<u>6675</u>
P 15	_____	_____	_____	_____	_____	<u>105</u>	<u>6675</u>
P 16	_____	_____	_____	_____	_____	<u>108</u>	<u>6676</u>
P 17	_____	_____	_____	_____	_____	<u>111</u>	<u>6677</u>
P 18	_____	_____	_____	_____	_____	<u>114</u>	<u>6678</u>
P 19	_____	_____	_____	_____	_____	<u>117</u>	<u>6678</u>
P 20	_____	_____	_____	_____	_____	<u>120</u>	_____

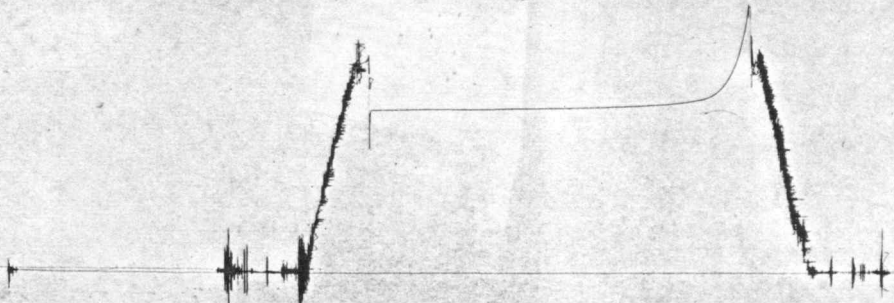
TKT# 22566

I.



6551

TKT# 22566
Below Straddle.





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

Company Jerry E. Shauver Lease & Well No. Young & Cooper Cattle Co. E - #1

Elevation 1388 Kelly Bush. Formation Kansas City Effective Pay - Ft. Ticket No. 22566

Date 11-13-77 Sec. 12 Twp. 31S Range 7E County Cowley State Kansas

Test Approved by Charles J. Slagle Western Representative Tim Wilson - Sam McClune

Formation Test No. 2 O.K. Misrun Interval Tested From 2182' to 2202' Total Depth 2290'

Size Main Hole 7-7/8 at Hole 6-1/8 Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No

Top Packer Depth 2177 Ft. Size 6-3/4 Bottom Packer Depth 2182 Ft. Size 6-3/4

Straddle Conv. B.T. Damaged Yes No Packer Depth 2202 Ft. Size 6-3/4

Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 20 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 2195 Ft. Clock No. 9103 Depth 2198 Ft. Clock No. 6896

Top Make Kuster Cap. 3150 No. 1562 Inside Outside Bottom Make Kuster Cap. 4200 No. 1588 Inside Outside

Below Straddle: Depth 2282 Rec. No. 1559 Clock No. 10167 Inside Outside Depth 2286 Ft. Rec. No. 1561 Clock No. 9727 Inside Outside

Time Set Packer 1:07 P M

Tool Open I.F.P. From 1:10 P. to 1:40 P. - Hr. 30 Min. From (B) 20 P.S.I. To (C) 83 P.S.I.

Tool Closed I.C.I.P. From 1:40 M. to 2:40 M. - Hr. 60 Min (D) 676 P.S.I.

Tool Open F.F.P. From 2:40 M. to 3:40 P. - Hr. 60 Min. From (E) 123 P.S.I. To (F) 165 P.S.I.

Tool Closed F.C.I.P. From 3:40 M. to 5:40 M. - Hr. 120 Min. (G) 678 P.S.I.

Initial Hydrostatic Pressure (A) 1099 P.S.I. Final Hydrostatic Pressure (H) 1090 P.S.I. Maximum Temp. 104°

INFORMATION

BLOW Weak building to fair.

Did Well Flow Yes No Recovery Total Ft. 302' Slight Gas Cut Muddy Water (98,000 P.P.M.) Chloride

Reversed Out Yes No Mud Type Chem Viscosity 44 Weight 9.5 Water Loss 12.8 cc. Chlorides 1900 P.P.M.

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

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

DRILLING CONTRACTOR White & Ellis #3 Length Drill Pipe? 1898 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 270 Ft. I.D. Drill Collars 2.25 In.

Tool Joint Size 4 1/2 In. Length D.S.T. Tool 121 Ft.

Remarks: H90

WESTERN TESTING CO., INC.

Pressure Data

Date 11-13-77 Test Ticket No. 22566
 Recorder No. 1562 Capacity 3150 Location 2195 Ft
 Clock No. 9103 Elevation 1388 Kelly Bushing Well Temperature 104 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1099	P.S.I.	1:07P	M
B First Initial Flow Pressure	20	P.S.I.	30	Mins. 30
C First Final Flow Pressure	83	P.S.I.	60	Mins. 57
D Initial Closed-in Pressure	676	P.S.I.	60	Mins. 60
E Second Initial Flow Pressure	123	P.S.I.	120	Mins. 117
F Second Final Flow Pressure	165	P.S.I.		
G Final Closed-in Pressure	678	P.S.I.		
H Final Hydrostatic Mud	1090	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: 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: 39 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	20	0	83	0	123	0	165
P 2 5	30	3	345	5	115	3	445
P 3 10	42	6	553	10	118	6	542
P 4 15	52	9	593	15	124	9	575
P 5 20	64	12	613	20	130	12	594
P 6 25	74	15	626	25	139	15	605
P 7 30	83	18	637	30	146	18	615
P 8		21	644	35	149	21	623
P 9		24	650	40	152	24	629
P10		27	654	45	156	27	635
P11		30	658	50	159	30	639
P12		33	661	55	162	33	643
P13		36	665	60	165	36	646
P14		39	667			39	647
P15		42	669			42	651
P16		45	671			45	652
P17		48	672			48	654
P18		51	675			51	656
P19		54	676			54	657
P20		57	676			57	659

WESTERN TESTING CO., INC.

Pressure Data

Date 11-13-77 Test Ticket No. 22566
 Recorder No. 1562 Capacity 3150 Location 2195 Ft.
 Clock No. 9103 Elevation 1388 Kelly Bushing Well Temperature 104 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1099</u> P.S.I.	Open Tool	<u>1:07P</u> M	
B First Initial Flow Pressure	<u>20</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>83</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>57</u> Mins.
D Initial Closed-in Pressure	<u>676</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>123</u> P.S.I.	Final Closed-in Pressure	<u>120</u> Mins.	<u>117</u> Mins.
F Second Final Flow Pressure	<u>165</u> P.S.I.			
G Final Closed-in Pressure	<u>678</u> P.S.I.			
H Final Hydrostatic Mud	<u>1090</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: 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: 39 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				60	661		
P 2				63	663		
P 3				66	664		
P 4				69	665		
P 5				72	666		
P 6				75	667		
P 7				78	668		
P 8				81	669		
P 9				84	670		
P10				87	671		
P11				90	671		
P12				93	672		
P13				96	673		
P14				99	674		
P15				102	675		
P16				105	675		
P17				108	676		
P18				111	677		
P19				114	678		
P20				117	678		