



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET 22595

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

Formation Layton Elevation 1435 KB Eff. Pay Ft.

District Augusta Date 11-17-77 Customer Order No.

COMPANY NAME Jerry E. Shawver

ADDRESS Suite 950 - 200 W. Douglas - Wichita - Ks - 67202

LEASE AND WELL NO. Young & Cooper Cattle Co. #1-A COUNTY Cowley STATE Ks. Sec. 19 Twp. 31S Rge. 8W

Mail Inv. To Same No. Copies Requested 1

Co. Name Address

Mail Charts To Amer No. Copies Requested 5

Address

Formation Test No. 1 O.K. X Misrun Interval Tested From 1980 to 2026 Total Depth 2026

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

Top Packer Depth 1975 Ft. Size 6 3/4 Bottom Packer Depth 1980 Ft. Size 6 3/4

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

Tool Size 5 1/2 Tool Joint Size 4 1/2 FN Anchor Length 46 Ft. Size 5 1/2 Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 1987 Ft. Clock No. 9103 Depth 1990 Ft. Clock No. 9727

Top Make Kuster Cap. 3150 No. 1562 Inside Outside Inside

Bottom Make Kuster Cap. 3200 No. 1561 Inside Outside Inside

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

Time Set Packer 7:27 AM

Tool Open I.F.P. From 7:30 AM to 8:00 AM Hr. 30 Min. From (B) 39 38 P.S.I. To (C) 54 47 P.S.I.

Tool Closed I.C.I.P. From 8:00 AM to 9:00 AM Hr. 60 Min. (D) 512 502 P.S.I.

Tool Open F.F.P. From 9:00 AM to 10:00 AM Hr. 60 Min. From (E) 288 P.S.I. To (F) 94 89 P.S.I.

Tool Closed F.C.I.P. From 10:00 AM to 12:00 AM Hr. 120 Min. (G) 520 515 P.S.I.

Initial Hydrostatic Pressure (A) 1010 P.S.I. Final Hydrostatic Pressure (H) 987 976 P.S.I. Maximum Temp. 100

INFORMATION

BLOW Fair decreasing to very weak

Did Well Flow Yes X No Recovery Total Ft. 140' Balgr. mud (Chlorides 2200)

Reversed Out Yes X No Mud Type Chem Viscosity 53 Weight 9.7 Water Loss 8.8 cc. Chlorides 1900

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 White & Miller #3 Length Drill Pipe 1806 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 984

Length Weight Pipe ft. I.D. Weight Pipe In. Tool Joint Size In. Length Drill Collars 155 ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4-2490 In. Length D.S.T. Tool 65 ft.

Remarks

INVOICE SECTION

Table with 2 columns: Item, Amount. Items include Open Hole Test (\$415.00), Straddle Test, Jars, Selective Zone, Safety Joint, Misrun, Evaluation, Packer, Circ. Sub., Total (\$415.00).

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 D. Slagle Signature of Customer or his Authorized Representative

Western Representative Jim Wilson

Operator's Time Hrs.

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 11-17-77 Test Ticket No. 22595  
 Recorder No. 1562 Capacity 3150 Location 1987 Ft.  
 Clock No. 9103 Elevation 1435 Kelly Bushing Well Temperature 100 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1002</u> P.S.I.	Open Tool	<u>7:27A</u> M	
B First Initial Flow Pressure	<u>38</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>47</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>502</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>82</u> P.S.I.	Final Closed-in Pressure	<u>120</u> Mins.	<u>120</u> Mins.
F Second Final Flow Pressure	<u>89</u> P.S.I.			
G Final Closed-in Pressure	<u>515</u> P.S.I.			
H Final Hydrostatic Mud	<u>976</u> P.S.I.			

**PRESSURE BREAKDOWN**

<b>First Flow Pressure</b> Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Initial Shut-In</b> Breakdown: <u>19</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	<b>Second Flow Pressure</b> Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Final Shut-In</b> Breakdown: <u>40</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
0	38	0	47	0	82	0	89
5	29	3	74	5	71	3	111
10	31	6	133	10	71	6	156
15	35	9	212	15	72	9	209
20	38	12	280	20	73	12	261
25	41	15	331	25	75	15	307
30	47	18	366	30	79	18	339
35		21	395	35	<del>80</del> 80	21	363
40		24	414	40	82	24	381
45		27	430	45	84	27	397
50		30	444	50	85	30	410
55		33	456	55	88	33	422
60		36	465	60	89	36	431
		39	472	65		39	439
		42	480	70		42	447
		45	486	75		45	453
		48	492	80		48	459
		51	497	85		51	464
		54	501	90		54	468
		57	502			57	473
						60	477

Cont'd on next page

**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	Press.	Point Minutes	Press.
P 1	_____	_____	_____	_____	63	481	
P 2	_____	_____	_____	_____	66	484	
P 3	_____	_____	_____	_____	69	488	
P 4	_____	_____	_____	_____	72	491	
P 5	_____	_____	_____	_____	75	494	
P 6	_____	_____	_____	_____	78	496	
P 7	_____	_____	_____	_____	81	497	
P 8	_____	_____	_____	_____	84	499	
P 9	_____	_____	_____	_____	87	502	
P10	_____	_____	_____	_____	90	504	
P11	_____	_____	_____	_____	93	506	
P12	_____	_____	_____	_____	96	<del>503</del> 507	
P13	_____	_____	_____	_____	99	<del>504</del> 508	
P14	_____	_____	_____	_____	102	<del>505</del> 509	
P15	_____	_____	_____	_____	105	<del>506</del> 510	
P16	_____	_____	_____	_____	108	511	
P17	_____	_____	_____	_____	111	512	
P18	_____	_____	_____	_____	114	513	
P19	_____	_____	_____	_____	117	514	
P20	_____	_____	_____	_____	120	515	



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

Company Jerry E. Shawver Lease & Well No. Young & Cooper Cattle Co #1-A  
 Elevation 1435 Kelly Bush. Formation Layton Effective Pay - Ft. Ticket No. 22595  
 Date 11-17-77 Sec. 19 Twp. 31S Range 8W County Cowley State Kansas  
 Test Approved by Charle I. Slagle Western Representative Tim Wilson

Formation Test No. 1 O.K.  Misrun  Interval Tested From 1980' to 2026' Total Depth 2026'  
 Size Main Hole 7 7/8 Rat Hole  Conv.  B.T.  Damaged  Yes  No Conv.  B.T.  Damaged  Yes  No  
 Top Packer Depth 1975 Ft. Size 6 3/4 Bottom Packer Depth 1980 Ft. Size 6 3/4  
 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 46 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 1987 Fr. Clock No. 9103 Depth 1990 Fr. Clock No. 9727  
 Top Make Kuster Cap. 3150 No. 1562 ~~Inside~~ Outside Bottom Make Kuster Cap. 3200 No. 1561 ~~Inside~~ Outside  
 Below Straddle: Depth  Rec. No.  Clock No.  ~~Inside~~ Outside Depth  Fr. Rec. No.  Clock No.  ~~Inside~~ Outside

Time Set Packer 7:27A M  
 Tool Open I.F.P. From 7:30 M. to 8:00 M. - Hr. 30 Min. From (B) 38 P.S.I. To (C) 47 P.S.I.  
 Tool Closed I.C.I.P. From 8:00 M. to 9:00 M. - Hr. 60 Min (D) 502 P.S.I.  
 Tool Open F.F.P. From 9:00 M. to 10:00 M. - Hr. 60 Min. From (E) 82 P.S.I. To (F) 89 P.S.I.  
 Tool Closed F.C.I.P. From 10:00 M. to 12:00 M. - Hr. 120 Min. (G) 515 P.S.I.  
 Initial Hydrostatic Pressure (A) 1002 P.S.I. Final Hydrostatic Pressure (H) 976 P.S.I. Maximum Temp. 100

**INFORMATION**

BLOW Fair decreasing to very weak.

Did Well Flow - Yes  No  Recovery Total Ft. 140' drilling mud. (Chlorides 2200 ppm)

Reversed Out - Yes  No  Mud Type Chem Viscosity 53 Weight 9.7 Water Loss 8.8 cc. Chlorides 1900 ppm

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 #3 Length Drill Pipe? 1806 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 155 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4-H90 In. Length D.S.T. Tool 65 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 11-17-77 Test Ticket No. 22595  
 Recorder No. 1562 Capacity 3150 Location 1987 Ft.  
 Clock No. 9103 Elevation 1435 Kelly Bushing Well Temperature 100 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1002</u> P.S.I.	Open Tool	<u>7:27A</u> M	
B First Initial Flow Pressure	<u>38</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>47</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>502</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>82</u> P.S.I.	Final Closed-in Pressure	<u>120</u> Mins.	<u>120</u> Mins.
F Second Final Flow Pressure	<u>89</u> P.S.I.			
G Final Closed-in Pressure	<u>515</u> P.S.I.			
H Final Hydrostatic Mud	<u>976</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: 40 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>0</u>	<u>47</u>	<u>0</u>	<u>82</u>	<u>0</u>	<u>89</u>
P 2	<u>5</u>	<u>3</u>	<u>74</u>	<u>5</u>	<u>71</u>	<u>3</u>	<u>111</u>
P 3	<u>10</u>	<u>6</u>	<u>133</u>	<u>10</u>	<u>71</u>	<u>6</u>	<u>156</u>
P 4	<u>15</u>	<u>9</u>	<u>212</u>	<u>15</u>	<u>72</u>	<u>9</u>	<u>209</u>
P 5	<u>20</u>	<u>12</u>	<u>280</u>	<u>20</u>	<u>73</u>	<u>12</u>	<u>261</u>
P 6	<u>25</u>	<u>15</u>	<u>331</u>	<u>25</u>	<u>75</u>	<u>15</u>	<u>307</u>
P 7	<u>30</u>	<u>18</u>	<u>366</u>	<u>30</u>	<u>79</u>	<u>18</u>	<u>339</u>
P 8		<u>21</u>	<u>395</u>	<u>35</u>	<u>80</u>	<u>21</u>	<u>363</u>
P 9		<u>24</u>	<u>414</u>	<u>40</u>	<u>82</u>	<u>24</u>	<u>381</u>
P10		<u>27</u>	<u>430</u>	<u>45</u>	<u>84</u>	<u>27</u>	<u>397</u>
P11		<u>30</u>	<u>444</u>	<u>50</u>	<u>85</u>	<u>30</u>	<u>410</u>
P12		<u>33</u>	<u>456</u>	<u>55</u>	<u>88</u>	<u>33</u>	<u>422</u>
P13		<u>36</u>	<u>465</u>	<u>60</u>	<u>89</u>	<u>36</u>	<u>431</u>
P14		<u>39</u>	<u>472</u>			<u>39</u>	<u>439</u>
P15		<u>42</u>	<u>480</u>			<u>42</u>	<u>447</u>
P16		<u>45</u>	<u>486</u>			<u>45</u>	<u>453</u>
P17		<u>48</u>	<u>492</u>			<u>48</u>	<u>459</u>
P18		<u>51</u>	<u>497</u>			<u>51</u>	<u>464</u>
P19		<u>54</u>	<u>501</u>			<u>54</u>	<u>468</u>
P20		<u>57</u>	<u>502</u>			<u>57</u>	<u>473</u>

**WESTERN TESTING CO., INC.**  
**Pressure Data**

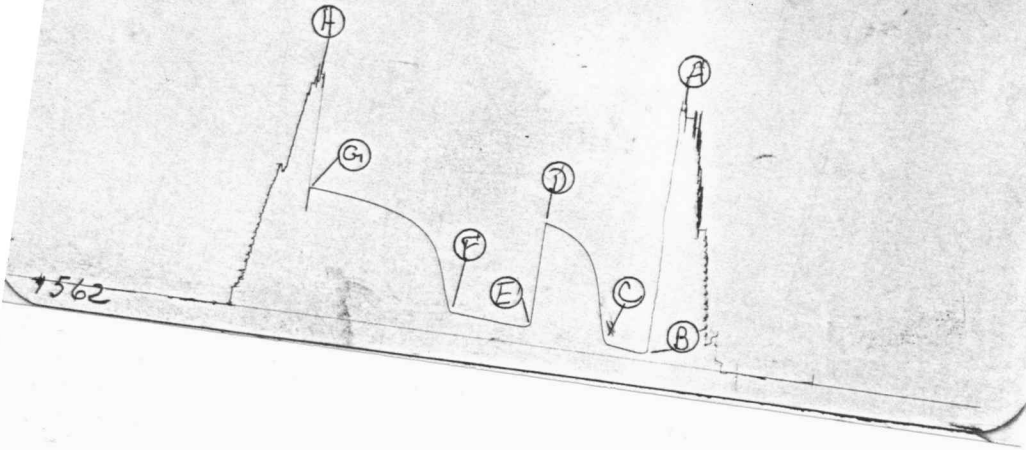
Date 11-17-77 Test Ticket No. 22595  
 Recorder No. 1562 Capacity 3150 Location 1987 Ft.  
 Clock No. 9103 Elevation 1435 Kelly Bushing Well Temperature 100 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1002</u> P.S.I.	Open Tool	<u>7:27A</u> M	
B First Initial Flow Pressure	<u>38</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>47</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>502</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>82</u> P.S.I.	Final Closed-in Pressure	<u>120</u> Mins.	<u>120</u> Mins.
F Second Final Flow Pressure	<u>89</u> P.S.I.			
G Final Closed-in Pressure	<u>515</u> P.S.I.			
H Final Hydrostatic Mud	<u>976</u> P.S.I.			

**PRESSURE BREAKDOWN**

Point Mins.	First Flow Pressure	Point Minutes	Initial Shut-In	Point Minutes	Second Flow Pressure	Point Minutes	Final Shut-In
	Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Breakdown: <u>19</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.		Press.		Press.		Press.
P 1						60	477
P 2						63	481
P 3						66	484
P 4						69	488
P 5						72	491
P 6						75	494
P 7						78	496
P 8						81	497
P 9						84	499
P10						87	502
P11						90	504
P12						93	506
P13						96	507
P14						99	508
P15						102	509
P16						105	510
P17						108	511
P18						111	512
P19						114	513
P20						117	514
						120	515

TK# 22595  
I.





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

WESTERN TESTING CO., INC.  
FORMATION TESTING

TICKET 22596

Formation Layton Elevation 1435 KB Eff. Pay \_\_\_\_\_ Ft.

District Augusta Date 11-17-77 Customer Order No. \_\_\_\_\_

COMPANY NAME Jerry E. Shower

ADDRESS Suite 950 - 200 W. Douglas - Wichita - Kansas - 67202

LEASE AND WELL NO. Young & Cooper Cattle Co. - ACOUNTY Cowley STATE Ks. Sec. 19 Twp. 315 Rge. 8 W

Oil Inv. To Same Co. Name \_\_\_\_\_ Address \_\_\_\_\_ No. Copies Requested 1

Oil Charts To Same Co. Name \_\_\_\_\_ Address \_\_\_\_\_ No. Copies Requested 5

Formation Test No. 2 O.K.  Misrun \_\_\_\_\_ Interval Tested From 2026 to 2050 Total Depth 2050

Open Main Hole 7 7/8 Rat Hole \_\_\_\_\_ Conv. \_\_\_\_\_ B.T.  Damaged \_\_\_\_\_ Yes  No Conv.  B.T. \_\_\_\_\_ Damaged \_\_\_\_\_ Yes  No

Open Packer Depth 2021 Ft. Size 6 3/4 Bottom Packer Depth 2026 Ft. Size 6 3/4

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

Tool Joint Size 5 1/2 Tool Joint Size 4 1/2 FH Anchor Length 24 Ft. Size 5 1/2 Surface Choke Size 4 3/4 In. Bottom Choke Size 4 3/4 In.

CORDERS Depth 2044 Ft. Clock No. 9103 Depth 2047 Ft. Clock No. 9727

Top Make Kuster Cap. 3150 No. 1562  Inside  Outside Bottom Make Kuster Cap. 3200 No. 1561  Inside  Outside

Low Straddle: Depth \_\_\_\_\_ Rec. No. \_\_\_\_\_ Clock No. \_\_\_\_\_  Inside  Outside Depth \_\_\_\_\_ Rec. No. \_\_\_\_\_ Clock No. \_\_\_\_\_  Inside  Outside

Time Set Packer 8:02 PM

Time of Open I.F.P. From 8:05 PM to 8:35 PM Hr. 30 Min. From (B) 70 61 P.S.I. To (C) 122 166 P.S.I.

Time of Closed I.C.I.P. From 8:35 PM to 9:35 PM Hr. 60 Min. (D) 574 564 P.S.I.

Time of Open F.F.P. From 9:35 PM to 10:35 PM Hr. 60 Min. From (E) 204 208 P.S.I. To (F) 283 276 P.S.I.

Time of Closed F.C.I.P. From 10:35 PM to 12:35 PM Hr. 120 Min. (G) 574 564 P.S.I.

Initial Hydrostatic Pressure (A) 1042 P.S.I. Final Hydrostatic Pressure (H) 1026 P.S.I. Maximum Temp. 98

INFORMATION

Flow Strong throughout

Estimated Well Flow \_\_\_\_\_ Yes  No Recovery Total Ft. 480' 300' muddy wtr.  show of oil  
180' slightly muddy wtr. (Chlorides 75,000)

Reversed Out \_\_\_\_\_ Yes  No Mud Type Chem Viscosity 46 Weight 9.6 Water Loss 8.8 cc. Chlorides 1900

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

Special Packers Yes Did Packers Hold? Yes Did Tool Plug? No Where? \_\_\_\_\_

DRIILLING CONTRACTOR White & Ellis #3 Length Drill Pipe 1737 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 1/4 In.

Tool Joint Size 4 1/4 In. Length D.S.T. Tool 43 ft.

Remarks \_\_\_\_\_

INVOICE SECTION

Open Hole Test	\$ <u>415.00</u>
Straddle Test	\$ _____
Jars	\$ _____
Selective Zone	\$ _____
Safety Joint	\$ _____
Misrun	\$ _____
Evaluation	\$ _____
Packer	\$ _____
Circ. Sub.	\$ _____
Total	\$ <u>415.00</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 Charles D. Slagle Western Representative Tim Wilson

Signature of Customer or his Authorized Representative

Operator's Time \_\_\_\_\_

Hrs.

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 11-17-77 Test Ticket No. 22596  
 Recorder No. 1562 Capacity 3150 Location 2044 Ft.  
 Clock No. 9103 Elevation 1435 Kelly Bushing Well Temperature 98 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1036</u> P.S.I.	Open Tool	<u>8:02P</u> M	
B First Initial Flow Pressure	<u>61</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>166</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>564</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>55</u> Mins.
E Second Initial Flow Pressure	<u>208</u> P.S.I.	Final Closed-in Pressure	<u>120</u> Mins.	<u>111</u> Mins.
F Second Final Flow Pressure	<u>276</u> P.S.I.			
G Final Closed-in Pressure	<u>564</u> P.S.I.			
H Final Hydrostatic Mud	<u>1015</u> P.S.I.			

**PRESSURE BREAKDOWN**

<b>First Flow Pressure</b> Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Initial Shut-In</b> Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	<b>Second Flow Pressure</b> Breakdown: <u>11</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Final Shut-In</b> Breakdown: <u>37</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>61</u>	0	<u>166</u>	0	<u>208</u>	0	<u>276</u>
P 2 5	<u>68</u>	3	<u>369</u>	5	<u>198</u>	3	<u>414</u>
P 3 10	<u>99</u>	6	<u>443</u>	10	<u>202</u>	6	<u>461</u>
P 4 15	<u>129</u>	9	<u>476</u>	15	<u>209</u>	9	<u>481</u>
P 5 20	<u>146</u>	12	<u>497</u>	20	<u>219</u>	12	<u>494</u>
P 6 25	<u>159</u>	15	<u>510</u>	25	<u>227</u>	15	<u>505</u>
P 7 30	<u>166</u>	18	<u>520</u>	30	<u>236</u>	18	<u>512</u>
P 8 35		21	<u>528</u>	35	<u>245</u>	21	<u>519</u>
P 9 40		24	<u>534</u>	40	<u>253</u>	24	<u>524</u>
P 10 45		27	<u>539</u>	45	<u>260</u>	27	<u>528</u>
P 11 50		30	<u>543</u>	50	<u>268</u>	30	<u>531</u>
P 12 55		33	<u>547</u>	55	<u>276</u>	33	<u>534</u>
P 13 60		36	<u>550</u>	60		36	<u>538</u>
P 14		39	<u>553</u>	65		39	<u>540</u>
P 15		42	<u>554</u>	70		42	<u>543</u>
P 16		45	<u>556</u>	75		45	<u>545</u>
P 17		48	<u>559</u>	80		48	<u>547</u>
P 18		51	<u>560</u>	85		51	<u>548</u>
P 19		54	<u>561</u>	90		54	<u>550</u>
P 20		57	<u>563</u>			57	<u>551</u>
		60	<u>564</u>			60	<u>552</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	Press.
P 1	_____	_____	_____	63	553
P 2	_____	_____	_____	66	554
P 3	_____	_____	_____	69	<del>555</del> 555
P 4	_____	_____	_____	72	556
P 5	_____	_____	_____	75	557
P 6	_____	_____	_____	78	558
P 7	_____	_____	_____	81	559
P 8	_____	_____	_____	84	<del>559</del> 559
P 9	_____	_____	_____	87	560
P10	_____	_____	_____	90	561
P11	_____	_____	_____	93	562
P12	_____	_____	_____	96	563
P13	_____	_____	_____	99	563
P14	_____	_____	_____	102	564
P15	_____	_____	_____	105	564
P16	_____	_____	_____	108	564
P17	_____	_____	_____	111	564
P18	_____	_____	_____	114	
P19	_____	_____	_____	117	
P20	_____	_____	_____	120	



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

Company Jerry E. Shawver Lease & Well No. Young & Cooper Cattle Co. #1-A  
 Elevation 1435 Kelly Bush. Formation Layton Effective Pay - Ft. Ticket No. 22596  
 Date 11-17-77 Sec. 19 Twp. 31S Range 8W County Cowley State Kansas  
 Test Approved by Charles I. Slagle Western Representative Tim Wilson  
 Formation Test No. 2 O.K.  Misrun  Interval Tested From 2026' to 2050' Total Depth 2050'  
 Size Main Hole 7 7/8 Rat Hole  Conv.  B.T.  Damaged  Yes  No Conv.  B.T.  Damaged  Yes  No  
 Top Packer Depth 2021 Ft. Size 6 3/4 Bottom Packer Depth 2026 Ft. Size 6 3/4  
 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 24 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 2044 Ft. Clock No. 9103 Depth 2047 Ft. Clock No. 9727  
 Top Make Kuster Cap. 3150 No. 1562 ~~Inside~~ Outside Bottom Make Kuster Cap. 3200 No. 1561 ~~Inside~~ Outside  
 Below Straddle: Depth - Rec. No. - Clock No. - ~~Inside~~ Outside Depth - Ft. Rec. No. - Clock No. - ~~Inside~~ Outside

Time Set Packer 8:02P M  
 Tool Open I.F.P. From 8:05P M. to 8:35P M. - Hr. 30 Min. From (B) 61 P.S.I. To (C) 166 P.S.I.  
 Tool Closed I.C.I.P. From 8:35 M. to 9:35 M. - Hr. 60 Min (D) 564 P.S.I.  
 Tool Open F.F.P. From 9:35 M. to 10:35 M. - Hr. 60 Min. From (E) 208 P.S.I. To (F) 276 P.S.I.  
 Tool Closed F.C.I.P. From 10:35 M. to 12:35 M. - Hr. 120 Min. (G) 564 P.S.I.  
 Initial Hydrostatic Pressure (A) 1036 P.S.I. Final Hydrostatic Pressure (H) 1015 P.S.I. Maximum Temp. 98

**INFORMATION**

BLOW Strong blow throughout test.

Did Well Flow - Yes  No  Recovery Total Fr. 480' total recovery, 300' muddy water with show of oil.  
180' slightly muddy water. Chlorides 75,000 ppm

Reversed Out - Yes  No  Mud Type Chem Viscosity 46 Weight 9.6 Water Loss 8.8 cc. Chlorides 1900 ppm

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 #3 Length Drill Pipe? 1737 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 1/4 In.  
 Tool Joint Size 4H-90 In. Length D.S.T. Tool 43 Ft.

Remarks:

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 11-17-77 Test Ticket No. 22596  
 Recorder No. 1562 Capacity 3150 Location 2044 Ft.  
 Clock No. 9103 Elevation 1430 Kelly Bushing Well Temperature 98 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1036</u> P.S.I.	Open Tool	<u>8:02P</u> M	
B First Initial Flow Pressure	<u>61</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>166</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>564</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>55</u> Mins.
E Second Initial Flow Pressure	<u>208</u> P.S.I.	Final Closed-in Pressure	<u>120</u> Mins.	<u>111</u> Mins.
F Second Final Flow Pressure	<u>276</u> P.S.I.			
G Final Closed-in Pressure	<u>564</u> P.S.I.			
H Final Hydrostatic Mud	<u>1015</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>11</u> Inc.		Breakdown: <u>37</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> 61	<u>0</u>	<u>166</u>	<u>0</u>	<u>208</u>	<u>0</u>	<u>276</u>
P 2	<u>5</u> 68	<u>3</u>	<u>369</u>	<u>5</u>	<u>198</u>	<u>3</u>	<u>414</u>
P 3	<u>10</u> 99	<u>6</u>	<u>443</u>	<u>10</u>	<u>202</u>	<u>6</u>	<u>461</u>
P 4	<u>15</u> 129	<u>9</u>	<u>476</u>	<u>15</u>	<u>209</u>	<u>9</u>	<u>481</u>
P 5	<u>20</u> 146	<u>12</u>	<u>497</u>	<u>20</u>	<u>219</u>	<u>12</u>	<u>494</u>
P 6	<u>25</u> 159	<u>15</u>	<u>510</u>	<u>25</u>	<u>227</u>	<u>15</u>	<u>505</u>
P 7	<u>30</u> 166	<u>18</u>	<u>520</u>	<u>30</u>	<u>236</u>	<u>18</u>	<u>512</u>
P 8		<u>21</u>	<u>528</u>	<u>35</u>	<u>245</u>	<u>21</u>	<u>519</u>
P 9		<u>24</u>	<u>534</u>	<u>40</u>	<u>253</u>	<u>24</u>	<u>524</u>
P10		<u>27</u>	<u>539</u>	<u>45</u>	<u>260</u>	<u>27</u>	<u>528</u>
P11		<u>30</u>	<u>543</u>	<u>50</u>	<u>268</u>	<u>30</u>	<u>531</u>
P12		<u>33</u>	<u>547</u>	<u>55</u>	<u>276</u>	<u>33</u>	<u>534</u>
P13		<u>36</u>	<u>550</u>			<u>36</u>	<u>538</u>
P14		<u>39</u>	<u>553</u>			<u>39</u>	<u>540</u>
P15		<u>42</u>	<u>554</u>			<u>42</u>	<u>543</u>
P16		<u>45</u>	<u>556</u>			<u>45</u>	<u>545</u>
P17		<u>48</u>	<u>559</u>			<u>48</u>	<u>547</u>
P18		<u>51</u>	<u>560</u>			<u>51</u>	<u>548</u>
P19		<u>54</u>	<u>561</u>			<u>54</u>	<u>550</u>
P20		<u>57</u>	<u>563</u>			<u>57</u>	<u>551</u>
		<u>60</u>	<u>564</u>				

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 11-17-77 Test Ticket No. 22596  
 Recorder No. 1562 Capacity 3150 Location 2044 Ft.  
 Clock No. 9103 Elevation 1435 Kelly Bushing Well Temperature 98 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1036</u> P.S.I.	Open Tool	<u>8:02P</u> M	
B First Initial Flow Pressure	<u>61</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>166</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>564</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>55</u> Mins.
E Second Initial Flow Pressure	<u>208</u> P.S.I.	Final Closed-in Pressure	<u>120</u> Mins.	<u>111</u> Mins.
F Second Final Flow Pressure	<u>276</u> P.S.I.			
G Final Closed-in Pressure	<u>564</u> P.S.I.			
H Final Hydrostatic Mud	<u>1015</u> P.S.I.			

**PRESSURE BREAKDOWN**

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

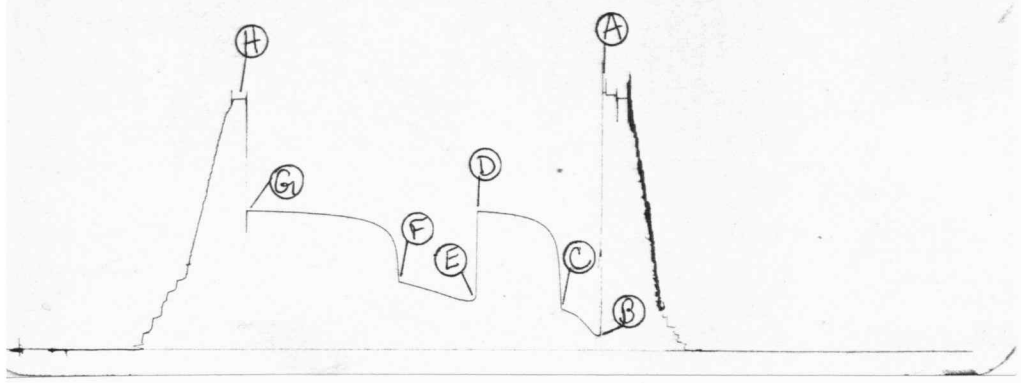
**Initial Shut-In**  
 Breakdown: 20 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

**Second Flow Pressure**  
 Breakdown: 11 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

**Final Shut-In**  
 Breakdown: 37 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>5</u>						<u>60</u>	<u>552</u>
P 2 <u>5</u>						<u>63</u>	<u>553</u>
P 3 <u>5</u>						<u>66</u>	<u>554</u>
P 4 <u>15</u>						<u>69</u>	<u>555</u>
P 5 <u>5</u>						<u>72</u>	<u>556</u>
P 6 <u>6</u>						<u>75</u>	<u>557</u>
P 7						<u>78</u>	<u>558</u>
P 8						<u>81</u>	<u>559</u>
P 9						<u>84</u>	<u>559</u>
P10						<u>87</u>	<u>560</u>
P11						<u>90</u>	<u>561</u>
P12						<u>93</u>	<u>562</u>
P13						<u>96</u>	<u>563</u>
P14						<u>99</u>	<u>563</u>
P15						<u>102</u>	<u>564</u>
P16						<u>105</u>	<u>564</u>
P17						<u>108</u>	<u>564</u>
P18						<u>111</u>	<u>564</u>
P19							
P20							

TKI# 22596  
I.





P. O. BOX 793 PHONE 793-7903

GREAT BEND, KANSAS

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET 22597

Formation \_\_\_\_\_ Elevation 1435 KB Eff. Pay \_\_\_\_\_ Ft.

District Augusta Date 11-18-77 Customer Order No. \_\_\_\_\_
COMPANY NAME Jerry E. Shawver
ADDRESS Suite 950 - 200 W. Douglas - Wichita Ks. 67202
LEASE AND WELL NO. Young & Cooper Cattle Co. - COUNTY Cowley STATE Ks. Sec. 19 Twp. 315 Rge. 8E
Mail Inv. To Same No. Copies Requested 1
Co. Name Address
Mail Charts To Same No. Copies Requested 5
Address

Formation Test No. 3 O.K. X Misrun - Interval Tested From 2208 to 2230 Total Depth 2230
Size Main Hole 7 3/8 Rat Hole - Conv. - B.T. X Damaged - Yes X No Conv. X B.T. - Damaged - Yes X No
Top Packer Depth 2203 Ft. Size 6 3/4 Bottom Packer Depth 2208 Ft. Size 6 3/4
Straddle - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -
Tool Size 5 1/2 Tool Joint Size 4 1/2 Anchor Length 22 Ft. Size 5 1/2 Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 2224 Ft. Clock No. 9103 Depth 2227 Ft. Clock No. 9727
Top Make Kuster Cap. 3150 No. 1562 Bottom Make Kuster Cap. 3200 No. 1561
Below Straddle: Depth - Rec. No. - Clock No. - Depth - Ft. - Rec. No. - Clock No. -

Time Set Packer 8:12 PM
Tool Open I.F.P. From 8:15 PM. to 8:45 PM. Hr. 30 Min. From (B) 31 35 P.S.I. To (C) 31 23 P.S.I.
Tool Closed I.C.I.P. From 8:45 PM. to 9:45 PM. Hr. 60 Min. (D) 54 42 P.S.I.
Tool Open F.F.P. From 9:45 PM. to 10:45 PM. Hr. 60 Min. From (E) 31 33 P.S.I. To (F) 31 25 P.S.I.
Tool Closed F.C.I.P. From 10:45 AM. to 12:45 AM. Hr. 120 Min. (G) 102 91 P.S.I.
Initial Hydrostatic Pressure (A) 1120 P.S.I. Final Hydrostatic Pressure (H) 1120 P.S.I. Maximum Temp. 102

INFORMATION

BLOW Very Weak on I.F.P. Dead on F.F.P.

Did Well Flow - Yes X No Recovery Total Ft. 2 ft. slightly oil specked dalg mud

Reversed Out - Yes - No Mud Type Chem Viscosity 42 Weight 9.6 Water Loss 9.2 cc. Chlorides 2200

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 White & Ellis #3 Length Drill Pipe 1919 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 X 2 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 1/4 In.
Tool Joint Size 4-2190 In. Length D.S.T. Tool 41 ft.

Remarks

Table with 2 columns: Item, Amount. Includes Open Hole Test \$415.00, Straddle Test \$, Jars \$, Selective Zone \$, Safety Joint \$, Misrun \$, Evaluation \$, Packer \$, Circ. Sub. \$, Total \$415.00

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 D. Slagle Western Representative Jim Wilson
Signature of Customer or his Authorized Representative Operator's Time \_\_\_\_\_ Hrs.

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 11-18-77 Test Ticket No. 22597  
 Recorder No. 1562 Capacity 3150 Location 2224 Ft.  
 Clock No. 9103 Elevation 1435 Kelly Bushing Well Temperature 102 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>1125</u>	P.S.I.	<u>8:12 P</u> M	
B. First Initial Flow Pressure	<u>33</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C. First Final Flow Pressure	<u>23</u>	P.S.I.	<u>60</u> Mins.	<u>57</u> Mins.
D. Initial Closed-in Pressure	<u>42</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E. Second Initial Flow Pressure	<u>33</u>	P.S.I.	<u>120</u> Mins.	<u>117</u> Mins.
F. Second Final Flow Pressure	<u>25</u>	P.S.I.		
G. Final Closed-in Pressure	<u>91</u>	P.S.I.		
H. Final Hydrostatic Mud	<del>1109</del> <u>1109</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	<u>35</u>	0	<u>23</u>	0	<u>33</u>	0	<u>25</u>
P 2	<u>25</u>	3	<u>24</u>	5	<u>27</u>	3	<u>26</u>
P 3	<u>23</u>	6	<u>25</u>	10	<u>26</u>	6	<u>27</u>
P 4	<u>23</u>	9	<u>25</u>	15	<u>25</u>	9	<u>28</u>
P 5	<u>23</u>	12	<u>26</u>	20		12	<u>29</u>
P 6	<u>23</u>	15	<u>27</u>	25		15	<u>31</u>
P 7	<u>23</u>	18	<u>27</u>	30		18	<u>32</u>
P 8		21	<u>28</u>	35		21	<u>33</u>
P 9		24	<u>30-29</u>	40		24	<u>34</u>
P 10		27	<u>30</u>	45		27	<u>37</u>
P 11		30	<u>31</u>	50		30	<u>39</u>
P 12		33	<u>32</u>	55		33	<u>40</u>
P 13		36	<u>33</u>	60	<u>25</u>	36	<u>41</u>
P 14		39	<u>34</u>	65		39	<u>43</u>
P 15		42	<u>36</u>	70		42	<u>45</u>
P 16		45	<u>37</u>	75		45	<u>47</u>
P 17		48	<u>38</u>	80		48	<u>49</u>
P 18		51	<u>40</u>	85		51	<u>50</u>
P 19		54	<u>42</u>	90		54	<u>52</u>
P 20		57	<u>42</u>			57	<u>53</u>
						60	<u>55</u>

# WESTERN TESTING CO., INC.

## Pressure Data

Date \_\_\_\_\_ Test Ticket No. \_\_\_\_\_

Recorder No. \_\_\_\_\_ Capacity \_\_\_\_\_ Location \_\_\_\_\_ Ft.

Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature \_\_\_\_\_ °F

Point	Pressure	Open Tool	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	Press.	Point Minutes	Press.	Point Minutes
P 1						63	57	
P 2						66	60	
P 3						69	61	
P 4						72	63	
P 5						75	65	
P 6						78	66	
P 7						81	68	
P 8						84	71	
P 9						87	72	
P10						90	73	
P11						93	75	
P12						96	77	
P13						99	79	
P14						102	81	
P15						105	83	
P16						108	85	
P17						111	87	
P18						114	88	
P19						117	91	
P20						<del>120</del>		



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

Elevation 1435 Kelly Bush. Formation - Effective Pay - Ft. Ticket No. 22597

Date 11-18-77 Sec. 19 Twp. 31S Range 8E County Cowley State Kansas

Test Approved by Charles I. Slagle Western Representative Tim Wilson

Formation Test No. 3 OK  Misrun  Interval Tested From 2208' to 2230' Total Depth 2230'

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

Top Packer Depth 2203 Ft. Size 6 3/4 Bottom Packer Depth 2208 Ft. Size 6 3/4

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 22 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 2224 Ft. Clock No. 9103 Depth 2227 Ft. Clock No. 9727

Top Make Kuster Cap. 3150 No. 1562 ~~Inside~~ Outside Bottom Make Kuster Cap. 3200 No. 1561 ~~Inside~~ Outside

Below Straddle: Depth - Rec. No. - Clock No. - ~~Inside~~ Outside Depth - Ft. Rec. No. - Clock No. - ~~Inside~~ Outside

Time Set Packer 8:12P M

Tool Open I.F.P. From 8:15 M. to 8:45 M. - Hr. 30 Min. From (B) 35 P.S.I. To (C) 23 P.S.I.

Tool Closed I.C.I.P. From 8:45 M. to 9:45 M. - Hr. 60 Min (D) 42 P.S.I.

Tool Open F.F.P. From 9:45 M. to 10:45 M. - Hr. 60 Min. From (E) 33 P.S.I. To (F) 25 P.S.I.

Tool Closed F.C.I.P. From 10:45 M. to 12:45 M. - Hr. 120 Min. (G) 91 P.S.I.

Initial Hydrostatic Pressure (A) 1125 P.S.I. Final Hydrostatic Pressure (H) 1109 P.S.I. Maximum Temp. 102

**INFORMATION**

BLOW Very weak on initial flow period. Dead on final flow period.

Did Well Flow - Yes  No  Recovery Total Ft. 2' slightly oil specked drilling mud.

Reversed Out - Yes  No  Mud Type Chem Viscosity 42 Weight 9.6 Water Loss 9.2 cc. Chlorides 2200 ppm

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 #3 Length Drill Pipe? 1919 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 1/4 In.

Tool Joint Size 4-H90 In. Length D.S.T. Tool 41 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 11-18-77 Test Ticket No. 22597  
 Recorder No. 1562 Capacity 3150 Location 2224 Ft.  
 Clock No. 9103 Elevation 1435 Kelly Bushing Well Temperature 102 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1125</u> P.S.I.	Open Tool	<u>8:12P</u> M	
B First Initial Flow Pressure	<u>35</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>23</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>57</u> Mins.
D Initial Closed-in Pressure	<u>42</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>33</u> P.S.I.	Final Closed-in Pressure	<u>120</u> Mins.	<u>117</u> Mins.
F Second Final Flow Pressure	<u>25</u> P.S.I.			
G Final Closed-in Pressure	<u>91</u> P.S.I.			
H Final Hydrostatic Mud	<u>1109</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>19</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>39</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> 35	<u>0</u> 23		<u>0</u> 33		<u>0</u> 25	
P 2	<u>5</u> 25	<u>3</u> 24		<u>5</u> 27		<u>3</u> 26	
P 3	<u>10</u> 23	<u>6</u> 25		<u>10</u> 26		<u>6</u> 27	
P 4	<u>15</u> 23	<u>9</u> 25		<u>15</u> 25		<u>9</u> 28	
P 5	<u>20</u> 23	<u>12</u> 26		<u>20</u> 25		<u>12</u> 29	
P 6	<u>25</u> 23	<u>15</u> 27		<u>25</u> 25		<u>15</u> 31	
P 7	<u>30</u> 23	<u>18</u> 27		<u>30</u> 25		<u>18</u> 32	
P 8		<u>21</u> 28		<u>35</u> 25		<u>21</u> 33	
P 9		<u>24</u> 29		<u>40</u> 25		<u>24</u> 34	
P10		<u>27</u> 30		<u>45</u> 25		<u>27</u> 37	
P11		<u>30</u> 31		<u>50</u> 25		<u>30</u> 39	
P12		<u>33</u> 32		<u>55</u> 25		<u>33</u> 40	
P13		<u>36</u> 33		<u>60</u> 25		<u>36</u> 41	
P14		<u>39</u> 34				<u>39</u> 43	
P15		<u>42</u> 36				<u>42</u> 45	
P16		<u>45</u> 37				<u>45</u> 47	
P17		<u>48</u> 38				<u>48</u> 49	
P18		<u>51</u> 40				<u>51</u> 50	
P19		<u>54</u> 42				<u>54</u> 52	
P20		<u>57</u> 42				<u>57</u> 53	

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 11-18-77

Test Ticket No. 22597

Recorder No. 1562 Capacity 3150 Location 2224 Ft.

Clock No. 9103 Elevation 1435 Kelly Bushing Well Temperature 102 °F

Point	Pressure			Time	Time
				Given	Computed
A. Initial Hydrostatic Mud	<u>1125</u>	P.S.I.	Open Tool	<u>8:12P</u>	<u>M</u>
B. First Initial Flow Pressure	<u>35</u>	P.S.I.	First Flow Pressure	<u>30</u>	<u>30</u>
C. First Final Flow Pressure	<u>23</u>	P.S.I.	Initial Closed-in Pressure	<u>60</u>	<u>57</u>
D. Initial Closed-in Pressure	<u>42</u>	P.S.I.	Second Flow Pressure	<u>60</u>	<u>60</u>
E. Second Initial Flow Pressure	<u>33</u>	P.S.I.	Final Closed-in Pressure	<u>120</u>	<u>117</u>
F. Second Final Flow Pressure	<u>25</u>	P.S.I.			
G. Final Closed-in Pressure	<u>91</u>	P.S.I.			
H. Final Hydrostatic Mud	<u>1109</u>	P.S.I.			

**PRESSURE BREAKDOWN**

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

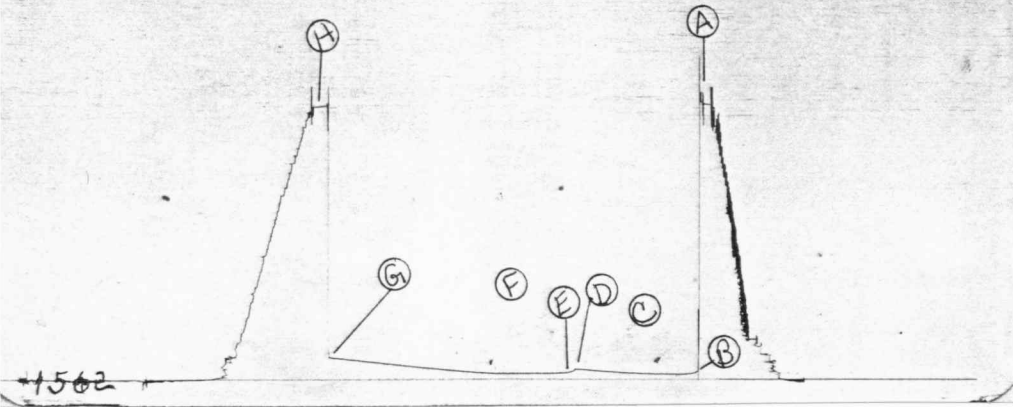
**Initial Shut-In**  
Breakdown: 19 Inc.  
of 3 mins. and a  
final inc. of 0 Min.

**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.	Initial Shut-In		Second Flow Pressure		Final Shut-In	
		Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						60	55
P 2						63	57
P 3						66	60
P 4						69	61
P 5						72	63
P 6						75	65
P 7						78	66
P 8						81	68
P 9						84	71
P10						87	72
P11						90	73
P12						93	75
P13						96	77
P14						99	79
P15						102	81
P16						105	83
P17						108	85
P18						111	87
P19						114	88
P20						117	91

TK# 22597  
I.





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

WESTERN TESTING CO., INC.  
FORMATION TESTING

TICKET 22598

Formation Cleveland Elevation 1435 KB Eff. Pay \_\_\_\_\_ Ft.

District Augusta Date 11-19-77 Customer Order No. \_\_\_\_\_

COMPANY NAME Jerry E. Shawver

ADDRESS Suite 956 - 200 W. Douglas - Wichita - Kan - 67202

LEASE AND WELL NO. Young & Cooper Cattle Co. 1-A COUNTY Cowley STATE Kan. Sec. 19 Twp. 31S Rge. 8E

Oil Inv. To Same Co. Name \_\_\_\_\_ Address \_\_\_\_\_ No. Copies Requested 1

Oil Charts To Same Address \_\_\_\_\_ No. Copies Requested 5

Formation Test No. 4 O.K.  Misrun  Interval Tested From 2300' to 2330' Total Depth 2330'

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 2295 Ft. Size 6 3/4 Bottom Packer Depth 2300 Ft. Size 6 3/4

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

Tool Joint Size 5 1/2 Tool Joint Size 4 1/2 Anchor Length 30 Ft. Size 4 1/2 Surface Choke Size 3/4 In. Bottom Choke Size 4 In.

CORDERS Depth 2323 Ft. Clock No. 9103 Depth 2326 Ft. Clock No. 9727

Top Make Xuster Cap. 3150 No. 1562  Inside  Outside Bottom Make Xuster Cap. 3200 No. 1561  Inside  Outside

Low Straddle: Depth \_\_\_\_\_ Rec. No. \_\_\_\_\_ Clock No. \_\_\_\_\_ Depth \_\_\_\_\_ Ft. Rec. No. \_\_\_\_\_ Clock No. \_\_\_\_\_

Time Set Packer 9:17 P M

Time of Open I.F.P. From 9:20 P M. to 9:50 P M. Hr. 30 Min. From (B) 188 P.S.I. To (C) 196 P.S.I.

Time of Closed I.C.I.P. From 9:50 P M. to 10:50 P M. Hr. 60 Min. (D) 940 P.S.I.

Time of Open F.F.P. From 10:50 P M. to 11:50 P M. Hr. 60 Min. From (E) 228 P.S.I. To (F) 236 P.S.I.

Time of Closed F.C.I.P. From 11:50 P M. to 1:50 P M. Hr. 120 Min. (G) 862 P.S.I.

Initial Hydrostatic Pressure (A) 1199 P.S.I. Final Hydrostatic Pressure (H) 1144 P.S.I. Maximum Temp. 106

INFORMATION

Flow Strong decreasing to weak.

Estimated Well Flow - Yes  No  Recovery Total Ft. 480' total recovery 300' slightly gas cut mud

180' watery drily mud (40,000 chlorides)  
100' gas in pipe

Reversed Out - Yes  No  Mud Type Chem Viscosity 44 Weight 9.7 Water Loss 9.6 cc. Chlorides 2200 PPM

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

Additional Packers yes Did Packers Hold? yes Did Tool Plug? no Where? \_\_\_\_\_

DRIILLING CONTRACTOR White & Ellis #3 Length Drill Pipe 2011 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 1/4 In.

Tool Joint Size 4-2499 In. Length D.S.T. Tool 49 ft.

Remarks \_\_\_\_\_

INVOICE SECTION

Open Hole Test	\$ <u>415.00</u>
Straddle Test	\$ _____
Jars	\$ _____
Selective Zone	\$ _____
Safety Joint	\$ _____
Misrun	\$ _____
Evaluation	\$ _____
Packer	\$ _____
Circ. Sub.	\$ _____
Total	\$ <u>415.00</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 Charles I. Slagle Western Representative Jim Wilson

Signature of Customer or his Authorized Representative Charles I. Slagle Operator's Time \_\_\_\_\_ Hrs.

WESTERN TESTING CO., INC.

Pressure Data

Date 11-19-77 Test Ticket No. 22598  
 Recorder No. 1562 Capacity 3150 Location 2323 Ft.  
 Clock No. 9103 Elevation 1435 Kelly Bushing Well Temperature 106 °F

Point	Pressure	Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>1197</u> P.S.I.	<u>9:17 P</u> M	
B. First Initial Flow Pressure	<u>182</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C. First Final Flow Pressure	<u>191</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
D. Initial Closed-in Pressure	<u>930</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E. Second Initial Flow Pressure	<u>241</u> P.S.I.	<u>120</u> Mins.	<u>130</u> Mins.
F. Second Final Flow Pressure	<u>226</u> P.S.I.		
G. Final Closed-in Pressure	<u>851</u> P.S.I.		
H. Final Hydrostatic Mud	<u>1140</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: 20 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: 40 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>182</u>	0	<u>191</u>	0	<u>241</u>	0	<u>226</u>
P 2	<u>185</u>	3	<u>467</u>	5	<u>221</u>	3	<u>332</u>
P 3	<u>188</u>	6	<u>643</u>	10	<u>216</u>	6	<u>437</u>
P 4	<u>191</u>	9	<u>711</u>	15	<u>215</u>	9	<u>501</u>
P 5	<u>191</u>	12	<u>755</u>	20	<u>215</u>	12	<u>548</u>
P 6	<u>191</u>	15	<u>786</u>	25	<u>217</u>	15	<u>584</u>
P 7	<u>191</u>	18	<u>808</u>	30	<u>218</u>	18	<u>614</u>
P 8		21	<u>828</u>	35	<u>219</u>	21	<u>637</u>
P 9		24	<u>841</u>	40	<u>220</u>	24	<u>651</u>
P 10		27	<u>855</u>	45	<u>222</u>	27	<u>666</u>
P 11		30	<u>865</u>	50	<u>224</u>	30	<u>681</u>
P 12		33	<u>875</u>	55	<u>225</u>	33	<u>695</u>
P 13		36	<u>885</u>	60	<u>226</u>	36	<u>707</u>
P 14		39	<u>893</u>	65		39	<u>718</u>
P 15		42	<u>900</u>	70		42	<u>728</u>
P 16		45	<u>906</u>	75		45	<u>736</u>
P 17		48	<u>913</u>	80		48	<u>746</u>
P 18		51	<u>917</u>	85		51	<u>754</u>
P 19		54	<u>921</u>	90		54	<u>760</u>
P 20		57	<u>926</u>			57	<u>768</u>
		60	<u>930</u>			60	<u>774</u>

Cont'd on next page

**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	Press.	Point Minutes	Press.
P 1	_____	_____	_____	_____	_____	63	780
P 2	_____	_____	_____	_____	_____	66	786
P 3	_____	_____	_____	_____	_____	69	792
P 4	_____	_____	_____	_____	_____	72	796
P 5	_____	_____	_____	_____	_____	75	802
P 6	_____	_____	_____	_____	_____	78	806
P 7	_____	_____	_____	_____	_____	81	810
P 8	_____	_____	_____	_____	_____	84	815
P 9	_____	_____	_____	_____	_____	87	819
P10	_____	_____	_____	_____	_____	90	821
P11	_____	_____	_____	_____	_____	93	825
P12	_____	_____	_____	_____	_____	96	829
P13	_____	_____	_____	_____	_____	99	832
P14	_____	_____	_____	_____	_____	102	835
P15	_____	_____	_____	_____	_____	105	838
P16	_____	_____	_____	_____	_____	108	841
P17	_____	_____	_____	_____	_____	111	843
P18	_____	_____	_____	_____	_____	114	846
P19	_____	_____	_____	_____	_____	117	849
P20	_____	_____	_____	_____	_____	120	851



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

Company Jerry E. Shawver Lease & Well No. Young & Cooper Cattle Co. 1-A  
Elevation 1435 Kelly Bushing Formation Cleveland Effective Pay - Ft. Ticket No. 22598  
Date 11-19-77 Sec. 19 Twp. 31S Range 8E County Cowley State Kansas  
Test Approved by Charles I. Slagle Western Representative Tim Wilson

Formation Test No. 4 O.K.  Misrun  Interval Tested From 2300' to 2330' Total Depth 2330'  
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 2295 Ft. Size 6-3/4 Bottom Packer Depth 2300 Ft. Size 6-3/4  
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 30 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 2323 Ft. Clock No. 9103 Depth 2326 Ft. Clock No. 9727  
Top Make Kuster Cap. 3150 No. 1562 Inside Outside Bottom Make Kuster Cap. 3200 No. 1561 Inside Outside  
Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 9:17P M  
Tool Open I.F.P. From 9:20 M. to 9:50 M. - Hr. 30 Min. From (B) 182 P.S.I. To (C) 191 P.S.I.  
Tool Closed I.C.I.P. From 9:50 M. to 10:50 M. - Hr. 60 Min (D) 930 P.S.I.  
Tool Open F.F.P. From 10:50 M. to 11:50 M. - Hr. 60 Min. From (E) 241 P.S.I. To (F) 226 P.S.I.  
Tool Closed F.C.I.P. From 11:50 M. to 1:50 PM. - Hr. 120 Min. (G) 851 P.S.I.  
Initial Hydrostatic Pressure (A) 1197 P.S.I. Final Hydrostatic Pressure (H) 1140 P.S.I. Maximum Temp. 106°

**INFORMATION**

BLOW Strong decreasing to weak.  
Did Well Flow  Yes  No Recovery Total Fr. 480' total recovery 300' slightly gas cut mud  
180' watery drlg. mud. 100' gas in pipe (40,000 Chlorides)

Reversed Out  Yes  No Mud Type Chem Viscosity 44 Weight 9.7 Water Loss 9.6 cc. Chlorides 2200 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 #3 Length Drill Pipe? 2011 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 1/4 In.  
Tool Joint Size 4H90 In. Length D.S.T. Tool 49 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Order No. 11-19-77 1562 Capacity 3150 Location 2323 Ft.  
 Well No. 9103 Elevation 1435 Kelly Bushing Well Temperature 106 °F  
 Test Ticket No. 22598

Point	Pressure		Time Given	Time Computed
Initial Hydrostatic Mud	1197 P.S.I.	Open Tool	9:17P M	
First Initial Flow Pressure	182 P.S.I.	First Flow Pressure	30 Mins	30 Mins
First Final Flow Pressure	191 P.S.I.	Initial Closed-in Pressure	60 Mins	60 Mins
Initial Closed-in Pressure	930 P.S.I.	Second Flow Pressure	60 Mins	60 Mins
Second Initial Flow Pressure	241 P.S.I.	Final Closed-in Pressure	120 Mins	120 Mins
Second Final Flow Pressure	226 P.S.I.			
Final Closed-in Pressure	851 P.S.I.			
Final Hydrostatic Mud	1140 P.S.I.			

PRESSURE BREAKDOWN

Point Inches	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.		
	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
1	0	182	0	191	0	226
2	5	185	3	467	3	332
3	10	188	6	643	6	437
4	15	191	9	711	9	501
5	20	191	12	755	12	548
6	25	191	15	786	15	584
7	30	191	18	808	18	614
8			21	828	21	637
9			24	841	24	651
10			27	855	27	666
11			30	865	30	681
12			33	875	33	695
13			36	885	36	707
14			39	893	39	718
15			42	900	42	728
16			45	906	45	736
17			48	913	48	746
18			51	917	51	754
19			54	921	54	760
20			57	926	57	768
			60	930	60	774

**WESTERN TESTING CO., INC.**  
**Pressure Data**

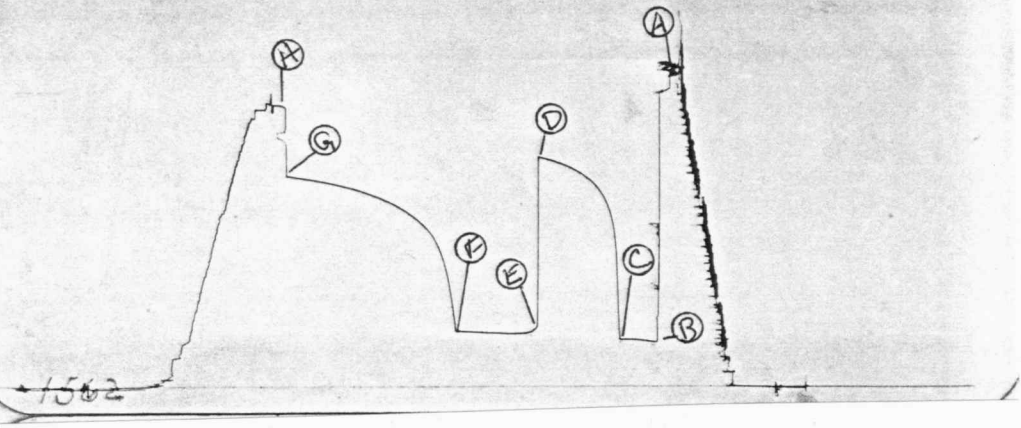
Date 11-19-77 Test Ticket No. 22598  
 Order No. 1562 Capacity 3150 Location 2323 Ft.  
 Check No. 9103 Elevation 1435 Kelly Bushing Well Temperature 106 °F

Point	Pressure		Time Given	Time Computed
Initial Hydrostatic Mud	1197 P.S.I.	Open Tool	9:17P	M
First Initial Flow Pressure	182 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
First Final Flow Pressure	191 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
Initial Closed-in Pressure	930 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
Second Initial Flow Pressure	241 P.S.I.	Final Closed-in Pressure	120 Mins.	120 Mins.
Second Final Flow Pressure	226 P.S.I.			
Final Closed-in Pressure	851 P.S.I.			
Final Hydrostatic Mud	1140 P.S.I.			

**PRESSURE BREAKDOWN**

Point	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.
	Point Minutes	Point Minutes	Point Minutes	Point Minutes
1				63
2				66
3				69
4				72
5				75
6				78
7				81
8				84
9				87
0				90
1				93
2				96
3				99
4				102
5				105
6				108
7				111
8				114
9				117
0				120

TK# 22598  
I.





WESTERN TESTING CO., INC.  
FORMATION TESTING

TICKET 22599

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

Formation Cleveland Elevation 1435 Eff. Pay 158 Ft. \_\_\_\_\_

District Augusta W. & E. Date 11-20-77 Customer Order No. \_\_\_\_\_

COMPANY NAME Geny E. Shaver

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

LEASE AND WELL NO. Young & Cooper Cattle Co. LA COUNTY Cowley STATE Kas. Sec. 19 Twp. 31S Rge. 8E

Mail Inv. To Same No. Copies Requested 1

Co. Name \_\_\_\_\_ Address \_\_\_\_\_

Mail Charts To Same No. Copies Requested 5

Address \_\_\_\_\_

Formation Test No. 5 O.K.  Misrun  Interval Tested From 2330' to 2342' Total Depth 2342'

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

Top Packer Depth 2325 Ft. Size 6 3/4 Bottom Packer Depth 2330 Ft. Size 6 3/4

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

Tool Size 5 1/2 Tool Joint Size 4 1/2 Anchor Length 12 Ft. Size 5 1/2 Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 2336 Ft. Clock No. 9103 Depth 2339 Ft. Clock No. 9727

Top Make Kuster Cap. 3150 No. 1562 Inside Bottom Make Kuster Cap. 3200 No. 1561 Inside

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

Time Set Packer 1:57 P M

Tool Open I.F.P. From 2:00 P M. to 2:30 P M. Hr. 30 Min. From (B) 39 44 P.S.I. To (C) 47 40 P.S.I.

Tool Closed I.C.I.P. From 2:30 P M. to 3:30 P M. Hr. 60 Min. (D) 831 826 P.S.I.

Tool Open F.F.P. From 3:30 P M. to 4:30 P M. Hr. 60 Min. From (E) 70 93 P.S.I. To (F) 78 76 P.S.I.

Tool Closed F.C.I.P. From 4:30 P M. to 6:30 P M. Hr. 120 Min. (G) 847 843 P.S.I.

Initial Hydrostatic Pressure (A) 1176 P.S.I. Final Hydrostatic Pressure (H) 1176 1176 P.S.I. Maximum Temp. 99

BLOW strung on 1 7/8" leaks on 2 7/8" final flow period  
initial flow period **INFORMATION** total recovery

Did Well Flow  Yes  No Recovery Total Ft. 365 175' 200' 125' 200' 175' 200'

130' slightly oil cut mud 15% oil 85% dry mud  
60' 5% water 5% oil 90% mud

Reversed Out  Yes  No Mud Type Chem Viscosity 40 Weight 9.5 Water Loss 9.2 cc. Chlorides 3300 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 White Sells #3 Length Drill Pipe 2041 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 1/4 In.

Tool Joint Size 4 In. Length D.S.T. Tool 31 ft.

Remarks \_\_\_\_\_

INVOICE SECTION

Open Hole Test	\$ 415.00
Straddle Test	\$
Jars	\$
Selective Zone	\$
Safety Joint	\$
Misrun	\$
Evaluation	\$
Packer	\$
Circ. Sub.	\$
Total	\$ 415.00

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 L. Slagle Western Representative Jim Wilson  
Signature of Customer or his Authorized Representative Operator's Time \_\_\_\_\_ Hrs.

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 11-20-77 Test Ticket No. 22599  
 Recorder No. 1562 Capacity 3150 Location 2336 Ft.  
 Clock No. 9103 Elevation 1435 Kelly Bushing Well Temperature 99 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1174</u> P.S.I.	Open Tool	<u>1:57P</u> M	
B First Initial Flow Pressure	<u>44</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>40</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>826</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>93</u> P.S.I.	Final Closed-in Pressure	<u>120</u> Mins.	<u>111</u> Mins.
F Second Final Flow Pressure	<u>76</u> P.S.I.			
G Final Closed-in Pressure	<u>843</u> P.S.I.			
H Final Hydrostatic Mud	<u>1171</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>37</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>44</u>	0	<u>40</u>	0	<u>93</u>	0	<u>76</u>
P 2	<u>35</u>	3	<u>43</u>	5	<u>71</u>	3	<u>85</u>
P 3	<u>31</u>	6	<u>48</u>	10	<u>65</u>	6	<u>114</u>
P 4	<u>33</u>	9	<u>60</u>	15	<u>65</u>	9	<u>168</u>
P 5	<u>36</u>	12	<u>97</u>	20	<u>65</u>	12	<u>236</u>
P 6	<u>38</u>	15	<u>176</u>	25	<u>65</u>	15	<u>314</u>
P 7	<u>40</u>	18	<u>277</u>	30	<u>66</u>	18	<u>387</u>
P 8	<u>45</u>	21	<u>386</u>	35	<u>68</u>	21	<u>451</u>
P 9	<u>40</u>	24	<u>481</u>	40	<u>70</u>	24	<u>508</u>
P10	<u>45</u>	27	<u>560</u>	45	<u>72</u>	27	<u>559</u>
P11	<u>50</u>	30	<u>622</u>	50	<u>74</u>	30	<u>600</u>
P12	<u>55</u>	33	<u>677</u>	55	<u>75</u>	33	<u>637</u>
P13	<u>60</u>	36	<u>711</u>	60	<u>76</u>	36	<u>667</u>
P14		39	<u>740</u>	<del>65</del>		39	<u>692</u>
P15		42	<u>760</u>	<del>70</del>		42	<u>712</u>
P16		45	<u>779</u>	<del>75</del>		45	<u>730</u>
P17		48	<u>792</u>	<del>80</del>		48	<u>745</u>
P18		51	<u>803</u>	<del>85</del>		51	<u>758</u>
P19		54	<u>813</u>	<del>90</del>		54	<u>771</u>
P20		57	<u>819</u>			57	<u>777</u>
		60	<u>826</u>			60	<u>785</u>

Contd on next pag

**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	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**

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.	
of _____ mins. and a		of _____ mins. and a		of _____ mins. and a		of _____ mins. and a	
final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.-
P 1	_____	_____	_____	_____	_____	63	793
P 2	_____	_____	_____	_____	_____	66	797
P 3	_____	_____	_____	_____	_____	69	802
P 4	_____	_____	_____	_____	_____	72	810
P 5	_____	_____	_____	_____	_____	75	813
P 6	_____	_____	_____	_____	_____	78	816
P 7	_____	_____	_____	_____	_____	81	821
P 8	_____	_____	_____	_____	_____	84	824
P 9	_____	_____	_____	_____	_____	87	827
P10	_____	_____	_____	_____	_____	90	830
P11	_____	_____	_____	_____	_____	93	833
P12	_____	_____	_____	_____	_____	96	835
P13	_____	_____	_____	_____	_____	99	838
P14	_____	_____	_____	_____	_____	102	840
P15	_____	_____	_____	_____	_____	105	842
P16	_____	_____	_____	_____	_____	108	843
P17	_____	_____	_____	_____	_____	111	843
P18	_____	_____	_____	_____	_____	114	_____
P19	_____	_____	_____	_____	_____	117	_____
P20	_____	_____	_____	_____	_____	120	_____



Home Office: Wichita, Kansas 67201

P. O. Box 1599

(316) 838-0601

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

Elevation 1435 Kelly Bushing Formation Cleveland Effective Pay - Fr. Ticket No. 22599

Date 11-20-77 Sec. 19 Twp. 31S Range 8E County Cowley State Kansas

Test Approved by Charles I. Slagle Western Representative Tim Wilson

Formation Test No. 5 O.K.  Misrun  Interval Tested From 2330' to 2342' Total Depth 2342'

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

Top Packer Depth 2325 Ft. Size 6-3/4 Bottom Packer Depth 2330 Ft. Size 6-3/4

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 12 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 2336 Ft. Clock No. 9103 Depth 2339 Ft. Clock No. 9727

Top Make Kuster Cap. 3150 No. 1562 Inside Outside Bottom Make Kuster Cap. 3200 No. 1561 Inside Outside

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

Time Set Packer 1:57P M

Tool Open I.F.P. From 2:00 M. to 2:30P M. - Hr. 30 Min. From (B) 44 P.S.I. To (C) 40 P.S.I.

Tool Closed I.C.I.P. From 2:30 M. to 3:30 M. - Hr. 60 Min (D) 826 P.S.I.

Tool Open F.F.P. From 3:30 M. to 4:30 M. - Hr. 60 Min. From (E) 93 P.S.I. To (F) 76 P.S.I.

Tool Closed F.C.I.P. From 4:30 M. to 6:30P M. - Hr. 120 Min. (G) 843 P.S.I.

Initial Hydrostatic Pressure (A) 1174 P.S.I. Final Hydrostatic Pressure (H) 1171 P.S.I. Maximum Temp. 990

**INFORMATION**

BLOW Strong on initial flow period. Weak on final flow period.

Did Well Flow  Yes  No Recovery Total Ft. 365' Total Recovery 175' Gas in pipe

130' slightly oil cut mud 15% Oil 85% Drlg. mud.

60' 5% water 5% Oil 90% Mud.

Reversed Out  Yes  No Mud Type Chem Viscosity 40 Weight 9.5 Water Loss 9.2 cc. Chlorides 3300 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 #3 Length Drill Pipe? 2041 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 1/4 In.

Tool Joint Size 4H90 In. Length D.S.T. Tool 31 Ft.

Remarks:

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 11-20-77 Test Ticket No. 22599  
 Recorder No. 1562 Capacity 3150 Location 2336 Ft.  
 Hook No. 9103 Elevation 1435 Kelly Bushing Well Temperature 99 °F

Point	Pressure		Time Given	Time Computed
Initial Hydrostatic Mud	<u>1174</u>	P.S.I.	<u>1:57</u>	<u>P M</u>
First Initial Flow Pressure	<u>44</u>	P.S.I.	<u>30</u>	<u>Mins. 30</u> Mins.
First Final Flow Pressure	<u>40</u>	P.S.I.	<u>60</u>	<u>Mins. 60</u> Mins.
Initial Closed-in Pressure	<u>826</u>	P.S.I.	<u>60</u>	<u>Mins. 60</u> Mins.
Second Initial Flow Pressure	<u>93</u>	P.S.I.	<u>120</u>	<u>Mins. 111</u> Mins.
Second Final Flow Pressure	<u>76</u>	P.S.I.		
Final Closed-in Pressure	<u>843</u>	P.S.I.		
Final Hydrostatic Mud	<u>1171</u>	P.S.I.		

**PRESSURE BREAKDOWN**

Point mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
<u>1</u> <u>0</u>	<u>44</u>	<u>0</u>	<u>40</u>	<u>0</u>	<u>93</u>	<u>0</u>	<u>76</u>
<u>2</u> <u>5</u>	<u>35</u>	<u>3</u>	<u>43</u>	<u>5</u>	<u>71</u>	<u>3</u>	<u>85</u>
<u>3</u> <u>10</u>	<u>31</u>	<u>6</u>	<u>48</u>	<u>10</u>	<u>65</u>	<u>6</u>	<u>114</u>
<u>4</u> <u>15</u>	<u>33</u>	<u>9</u>	<u>60</u>	<u>15</u>	<u>65</u>	<u>9</u>	<u>168</u>
<u>5</u> <u>20</u>	<u>36</u>	<u>12</u>	<u>97</u>	<u>20</u>	<u>65</u>	<u>12</u>	<u>236</u>
<u>6</u> <u>25</u>	<u>38</u>	<u>15</u>	<u>176</u>	<u>25</u>	<u>65</u>	<u>15</u>	<u>314</u>
<u>7</u> <u>30</u>	<u>40</u>	<u>18</u>	<u>277</u>	<u>30</u>	<u>66</u>	<u>18</u>	<u>387</u>
<u>8</u>		<u>21</u>	<u>386</u>	<u>35</u>	<u>68</u>	<u>21</u>	<u>451</u>
<u>9</u>		<u>24</u>	<u>481</u>	<u>40</u>	<u>70</u>	<u>24</u>	<u>508</u>
<u>10</u>		<u>27</u>	<u>560</u>	<u>45</u>	<u>72</u>	<u>27</u>	<u>559</u>
<u>11</u>		<u>30</u>	<u>622</u>	<u>50</u>	<u>74</u>	<u>30</u>	<u>600</u>
<u>12</u>		<u>33</u>	<u>677</u>	<u>55</u>	<u>75</u>	<u>33</u>	<u>637</u>
<u>13</u>		<u>36</u>	<u>711</u>	<u>60</u>	<u>76</u>	<u>36</u>	<u>667</u>
<u>14</u>		<u>39</u>	<u>740</u>			<u>39</u>	<u>692</u>
<u>15</u>		<u>42</u>	<u>760</u>			<u>42</u>	<u>712</u>
<u>16</u>		<u>45</u>	<u>779</u>			<u>45</u>	<u>730</u>
<u>17</u>		<u>48</u>	<u>792</u>			<u>48</u>	<u>745</u>
<u>18</u>		<u>51</u>	<u>803</u>			<u>51</u>	<u>758</u>
<u>19</u>		<u>54</u>	<u>813</u>			<u>54</u>	<u>771</u>
<u>20</u>		<u>57</u>	<u>819</u>			<u>57</u>	<u>777</u>
<u>WTC - 4</u>		<u>60</u>	<u>826</u>			<u>60</u>	<u>785</u>

continued on  
next page

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 11-20-77 Test Ticket No. 22599  
 Recorder No. 1562 Capacity 3150 Location 2336 Ft.  
 Clock No. 9103 Elevation 1435 Kelly Bushing Well Temperature 99 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1174</u>	P.S.I.	<u>1:57</u> P M	
B First Initial Flow Pressure	<u>44</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>40</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>826</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>93</u>	P.S.I.	<u>120</u> Mins.	<u>111</u> Mins.
F Second Final Flow Pressure	<u>76</u>	P.S.I.		
G Final Closed-in Pressure	<u>843</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1171</u>	P.S.I.		

**PRESSURE BREAKDOWN**

<b>First Flow Pressure</b> Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Initial Shut-In</b> Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	<b>Second Flow Pressure</b> Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Final Shut-In</b> Breakdown: <u>37</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						<u>63</u>	<u>793</u>
P 2						<u>66</u>	<u>797</u>
P 3						<u>69</u>	<u>802</u>
P 4						<u>72</u>	<u>810</u>
P 5						<u>75</u>	<u>813</u>
P 6						<u>78</u>	<u>816</u>
P 7						<u>81</u>	<u>821</u>
P 8						<u>84</u>	<u>824</u>
P 9						<u>87</u>	<u>827</u>
P10						<u>90</u>	<u>830</u>
P11						<u>93</u>	<u>833</u>
P12						<u>96</u>	<u>835</u>
P13						<u>99</u>	<u>838</u>
P14						<u>102</u>	<u>840</u>
P15						<u>105</u>	<u>842</u>
P16						<u>108</u>	<u>843</u>
P17						<u>111</u>	<u>843</u>
P18							
P19							
P20							

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