

P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

Company Brunson -Spines Lease & Well No. Medlen #1
 Elevation 910 Ground Level Formation Fort Scott Effective Pay -- Ft. Ticket No. 1784
 Date 11/14/78 Sec. 14 Twp. 30S Range 12E County Elk State Kansas
 Test Approved by T. Wright Western Representative Tim Wilson

Formation Test No. 1 Interval Tested from 1189' ft. to 1215' ft. Total Depth 1215' ft.
 Packer Depth 1189 ft. Size 5½ in. Packer Depth -- ft. Size -- in.
 Packer Depth -- ft. Size -- in. Packer Depth -- ft. Size -- in.
 Depth of Selective Zone Set --

Top Recorder Depth (Inside) 1208 ft. Recorder Number 1559 Cap. 4200
 Bottom Recorder Depth (Outside) 1211 ft. Recorder Number 1558 Cap. 4200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Alco #6 Drill Collar Length 91 I. D. 2 in.
 Mud Type chemical Viscosity 32 Weight Pipe Length -- I. D. -- in.
 Weight 8.9 Water Loss 15.2 cc. Drill Pipe Length 1084 I. D. 2.7 in.
 Chlorides 1,200 P.P.M. Test Tool Length 40 in. Tool Size 4½ in.
 Jars: Make -- Serial Number -- Anchor Length 26 ft. Size 4½ in.
 Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 6¼ in. Tool Joint Size 3½IF in.

Blow: Very weak 22 minutes.

Recovered 2 ft. of very slightly oil cut drilling mud
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: _____

Time Set Packer(s) 5:13 ~~A.M.~~ P.M. Time Started Off Bottom 6:18 ~~A.M.~~ P.M. Maximum Temperature 82
 Initial Hydrostatic Pressure (A) 556 P.S.I.
 Initial Flow Period Minutes 30 (B) 18 P.S.I. to (C) 2 P.S.I.
 Initial Closed In Period Minutes 30 (D) 19 P.S.I.
 Final Flow Period Minutes None taken (E) -- P.S.I. to (F) -- P.S.I.
 Final Closed In Period Minutes None taken (G) -- P.S.I.
 Final Hydrostatic Pressure (H) -- P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 11/14/78

Test Ticket No. 1784

Recorder No. 1559 Capacity 4200 Location 1208 Ft.

Clock No. -- Elevation 910 Ground Level Well Temperature 82 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>556</u> P.S.I.	Open Tool	<u>5:13P</u> M	
B First Initial Flow Pressure	<u>18</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>2</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>19</u> P.S.I.	Second Flow Pressure	<u>--</u> Mins.	<u>--</u> Mins.
E Second Initial Flow Pressure	<u>--</u> P.S.I.	Final Closed-in Pressure	<u>--</u> Mins.	<u>--</u> Mins.
F Second Final Flow Pressure	<u>--</u> P.S.I.			
G Final Closed-in Pressure	<u>--</u> P.S.I.			
H Final Hydrostatic Mud	<u>554</u> P.S.I.			

PRESSURE BREAKDOWN

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

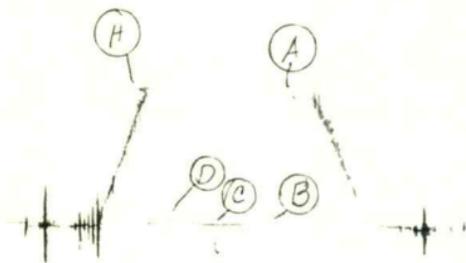
Initial Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

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

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

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes
P 1 <u>0</u>	<u>18</u>	<u>0</u>	<u>2</u>					
P 2 <u>5</u>	<u>8</u>	<u>3</u>	<u>2</u>					
P 3 <u>10</u>	<u>6</u>	<u>6</u>	<u>2</u>					
P 4 <u>15</u>	<u>6</u>	<u>9</u>	<u>4</u>					
P 5 <u>20</u>	<u>6</u>	<u>12</u>	<u>8</u>					
P 6 <u>25</u>	<u>4</u>	<u>15</u>	<u>10</u>					
P 7 <u>30</u>	<u>2</u>	<u>18</u>	<u>13</u>					
P 8		<u>21</u>	<u>13</u>					
P 9		<u>24</u>	<u>15</u>					
P10		<u>27</u>	<u>17</u>					
P11		<u>30</u>	<u>19</u>					
P12								
P13								
P14								
P15								
P16								
P17								
P18								
P19								
P20								

TRF # 1784
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P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

Company Brunson-Spines Lease & Well No. #1 Medlen
 Elevation 910 Ground Level Formation Mississippi Effective Pay - Ft. Ticket No. 1785
 Date 11-15-78 Sec. 14 Twp. 30S Range 12E County Elk State Kansas
 Test Approved by Tom Wright Western Representative Tim Wilson

Formation Test No. 2 Interval Tested from 1519 ft. to 1536 ft. Total Depth 1536 ft.
 Packer Depth 1519 ft. Size 5½ in. Packer Depth - ft. Size - in.
 Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 1529 ft. Recorder Number 1559 Cap. 4200
 Bottom Recorder Depth (Outside) 1532 ft. Recorder Number 1558 Cap. 4200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Alco #6 Drill Collar Length 91 I. D. 2 in.
 Mud Type Chemical Viscosity 36 Weight Pipe Length - I. D. - in.
 Weight 9.2 Water Loss 12.0 cc. Drill Pipe Length 1414 I. D. 2.7 in.
 Chlorides 1600 P.P.M. Test Tool Length 31 in. Tool Size 4½ in.
 Jars: Make - Serial Number - Anchor Length 17 ft. Size 4½ in.
 Did Well Flow? Yes Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 6¼ in. Tool Joint Size 3½ IF in.

Blow: Weak increasing to strong. Gas to surface ten minutes on final flow period. 40 minutes total.

Recovered 30 ft. of Gas cut drilling mud
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: See attached sheet for gas report

Time Set Packer(s) 1:35 ^{AM} P.M. Time Started Off Bottom 4:25 ^{AM} P.M. Maximum Temperature 94
 Initial Hydrostatic Pressure (A) 729 P.S.I.
 Initial Flow Period Minutes 30 (B) 21 P.S.I. to (C) 17 P.S.I.
 Initial Closed In Period Minutes 30 (D) 517 P.S.I.
 Final Flow Period Minutes 60 (E) 21 P.S.I. to (F) 10 P.S.I.
 Final Closed In Period Minutes 45 (G) 528 P.S.I.
 Final Hydrostatic Pressure (H) 714 P.S.I.



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

GAS FLOW REPORT

Date 11/15/78 Ticket 1785 Company Brunson - Spines
 Well Name and No. Medlen #1 Dst No. 2 Interval Tested 1519'-1536'
 County Elk State Kansas Sec. 14 Twp. 30S Rg. 12E

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
PRE FLOW						

Tool open 1:40 PM Gas to surface 10minut**SECOND FLOW** on final flow period.

10 min.	5" of water	1/4" orifice				3,70 CFPD
15 min.	6" of water	1/4" orifice				4,120 CFPD
20 min.	7" of water	1/4" orifice				4,450 CFPD
25 min.	7" of water	1/4" orifice				4,450 CFPD
30 min.	7" of water	1/4" orifice				4,450 CFPD
35 min.	7" of water	1/4" orifice				4,450 CFPD
40 min.	7" of water	1/4" orifice				4,450 CFPD
45 min.	7" of water	1/4" orifice				4,450 CFPD
50 min.	7" of water	1/4" orifice				4,450 CFPD
55 min.	7" of water	1/4" orifice				4,450 CFPD
60 min.	7" of water	1/4" orifice				4,450 CFPD

GAS BOTTLE

Serial No. 639 Date Bottle Filled 11/15/78 Date to be Invoiced 11/15/78

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Brunson - Spines
 Authorized by Tom Wright

WESTERN TESTING CO., INC.
Pressure Data

Date 11/15/78

Test Ticket No. 1785

Recorder No. 1559

Capacity 4200

Location 1529 Ft.

Clock No. --

Elevation 910 Ground Level

Well Temperature 94 °F

Point	Pressure			Time Given	Time Computed
A	729	P.S.I.	Open Tool	1:35P	M
B	21	P.S.I.	First Flow Pressure	30	Mins. 30 Mins.
C	17	P.S.I.	Initial Closed-in Pressure	30	Mins. 30 Mins.
D	517	P.S.I.	Second Flow Pressure	60	Mins. 60 Mins.
E	21	P.S.I.	Final Closed-in Pressure	45	Mins. 54 Mins.
F	10	P.S.I.			
G	528	P.S.I.			
H	714	P.S.I.			

PRESSURE BREAKDOWN

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

Initial Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

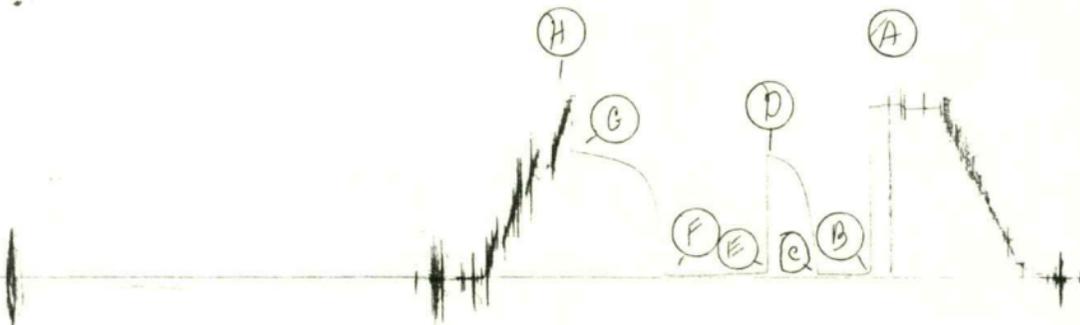
Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 18 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	0	0	17	0	21	0	10
P 2	5	3	178	5	17	3	199
P 3	10	6	297	10	17	6	293
P 4	15	9	370	15	18	9	366
P 5	20	12	424	20	18	12	412
P 6	25	15	462	25	18	15	439
P 7	30	18	481	30	11	18	460
P 8		21	496	35	10	21	475
P 9		24	504	40	10	24	483
P10		27	510	45	10	27	490
P11		30	517	50	10	30	498
P12				55	10	33	504
P13				60	10	36	508
P14						39	512
P15						42	517
P16						45	520
P17						48	524
P18						51	526
P19						54	528
P20							

Trd # 1785

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Company Brunson-Spines Lease & Well No. Medlen #1
Elevation 910 Ground Level Formation Mississippi Effective Pay -- Ft. Ticket No. 1786
Date 11/16/78 Sec. 14 Twp. 30S Range 12E County Elk State Kansas
Test Approved by T. Wright Western Representative Tim Wilson

Formation Test No. 3 Interval Tested from 1524' ft. to 1547' ft. Total Depth 1547' ft.

Packer Depth 1524 ft. Size 5 1/2 in. Packer Depth -- ft. Size -- in.

Packer Depth -- ft. Size -- in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 1540 ft. Recorder Number 1559 Cap. 4200

Bottom Recorder Depth (Outside) 1543 ft. Recorder Number 1558 Cap. 4200

Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. --

Drilling Contractor Alco #6 Drill Collar Length 91 I. D. 2 in.

Mud Type chemical Viscosity 36 Weight Pipe Length -- I. D. -- in.

Weight 9.2 Water Loss 12.0 cc. Drill Pipe Length 1421 I. D. 2.7 in.

Chlorides 1,600 P.P.M. Test Tool Length 37 in. Tool Size 4 1/2 in.

Jars: Make -- Serial Number -- Anchor Length 23 ft. Size 4 1/2 in.

Did Well Flow? Yes Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 6 1/4 in. Tool Joint Size 3 1/2 IF in.

Blow: Strong. Gas to surface 25 minutes. See attached sheet for gas measurements.

Recovered 100 ft. of gas cut drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 12:25 A.M. Time Started Off Bottom 3:15 P.M. Maximum Temperature 94

Initial Hydrostatic Pressure (A) 729 P.S.I.

Initial Flow Period Minutes 30 (B) 61 P.S.I. to (C) 63 P.S.I.

Initial Closed In Period Minutes 30 (D) 556 P.S.I.

Final Flow Period Minutes 60 (E) 75 P.S.I. to (F) 65 P.S.I.

Final Closed In Period Minutes 45 (G) 562 P.S.I.

Final Hydrostatic Pressure (H) 718 P.S.I.



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

GAS FLOW REPORT

Date 11/16/78 Ticket 1786 Company Brunson-Spines
 Well Name and No. Medlen #1 Dst No. 3 Interval Tested 1524'-1547'
 County Elk State Kansas Sec. 14 Twp. 30S Rg. 12E

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
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Tool open 12:30 AM. Gas to surface 25 minutes. **PRE FLOW**

25 min.	15 lbs.	1/2" orifice				147,000 CFPD
30 min.	22 lbs.	1/2" orifice				189,000 CFPD

SECOND FLOW

0	7 lbs.	3/4" orifice				211,000 CFPD
10 min.	8 lbs.	3/4" orifice				227,000 CFPD
20 min.	8 lbs.	3/4" orifice				227,000 CFPD
30 min.	8.5 lbs.	3/4" orifice				236,000 CFPD
40 min.	9 lbs.	3/4" orifice				245,000 CFPD
50 min.	9 lbs.	3/4" orifice				245,000 CFPD
60 min.	9.5 lbs.	3/4" orifice				251,000 CFPD

GAS BOTTLE

Serial No. -- Date Bottle Filled -- Date to be Invoiced 11/16/78

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Brunson-Spines
 Authorized by T. Wright

WESTERN TESTING CO., INC.

Pressure Data

Date 11/16/78 Test Ticket No. 1786
 Recorder No. 1559 Capacity 4200 Location 1540
 Clock No. -- Elevation 910 Ground Level Well Temperature 94

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	729 P.S.I.	Open Tool	12:25A M	
B First Initial Flow Pressure	61 P.S.I.	First Flow Pressure	30 Mins.	30 Min.
C First Final Flow Pressure	63 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Min.
D Initial Closed-in Pressure	556 P.S.I.	Second Flow Pressure	60 Mins.	60 Min.
E Second Initial Flow Pressure	75 P.S.I.	Final Closed-in Pressure	45 Mins.	45 Min.
F Second Final Flow Pressure	65 P.S.I.			
G Final Closed-in Pressure	562 P.S.I.			
H Final Hydrostatic Mud	718 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>15</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>61</u>	<u>0</u>	<u>63</u>	<u>0</u>	<u>75</u>	<u>0</u>	<u>65</u>
P 2 <u>5</u>	<u>50</u>	<u>3</u>	<u>535</u>	<u>5</u>	<u>69</u>	<u>3</u>	<u>533</u>
P 3 <u>10</u>	<u>48</u>	<u>6</u>	<u>548</u>	<u>10</u>	<u>65</u>	<u>6</u>	<u>548</u>
P 4 <u>15</u>	<u>48</u>	<u>9</u>	<u>552</u>	<u>15</u>	<u>65</u>	<u>9</u>	<u>550</u>
P 5 <u>20</u>	<u>48</u>	<u>12</u>	<u>554</u>	<u>20</u>	<u>65</u>	<u>12</u>	<u>550</u>
P 6 <u>25</u>	<u>54</u>	<u>15</u>	<u>554</u>	<u>25</u>	<u>65</u>	<u>15</u>	<u>550</u>
P 7 <u>30</u>	<u>63</u>	<u>18</u>	<u>554</u>	<u>30</u>	<u>65</u>	<u>18</u>	<u>550</u>
P 8 _____	_____	<u>21</u>	<u>554</u>	<u>35</u>	<u>65</u>	<u>21</u>	<u>550</u>
P 9 _____	_____	<u>24</u>	<u>554</u>	<u>40</u>	<u>65</u>	<u>24</u>	<u>550</u>
P10 _____	_____	<u>27</u>	<u>555</u>	<u>45</u>	<u>65</u>	<u>27</u>	<u>550</u>
P11 _____	_____	<u>30</u>	<u>556</u>	<u>50</u>	<u>65</u>	<u>30</u>	<u>554</u>
P12 _____	_____	_____	_____	<u>55</u>	<u>65</u>	<u>33</u>	<u>556</u>
P13 _____	_____	_____	_____	<u>60</u>	<u>65</u>	<u>36</u>	<u>558</u>
P14 _____	_____	_____	_____	_____	_____	<u>39</u>	<u>559</u>
P15 _____	_____	_____	_____	_____	_____	<u>42</u>	<u>560</u>
P16 _____	_____	_____	_____	_____	_____	<u>45</u>	<u>562</u>
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____

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