



Home Office: Wichita, Kansas 67201  
 P.O. Box 1599 (316) 262-5861

Company J Mark Richardson Lease & Well No. Jewett #2  
 Elevation 2085 Kelly Bushing Formation Cherokee Effective Pay - Ft. Ticket No. 9144  
 Date 2/18/81 Sec 3 Twp 27S Range 16W County Kiowa State Kansas  
 Test Approved by J Mark Richardson Western Representative Jim Wondra

Formation Test No. 1 Interval Tested from 4480 ft. to 4505 ft. Total Depth 4505 ft.  
 Packer Depth 4475 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 4480 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4495 ft. Recorder Number 2607 Cap. 4150  
 Bottom Recorder Depth (Outside) 4498 ft. Recorder Number 3351 Cap. 4000  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Gabbert & Jones Rig #9 Drill Collar Length 240 I. D. 2 1/4 in.  
 Mud Type Premix-Starch Viscosity 48 Weight Pipe Length - I. D. - in.  
 Weight 9.5 Water Loss 11.4 cc. Drill Pipe Length 4211 I. D. 3.8 in.  
 Chlorides 11,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.  
 Jars: Make WTC Serial Number 410 Anchor Length 25 ft. Size 5 1/2 OD in.  
 Did Well Flow? Yes Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.  
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong blow throughout flow periods. Gas to surface in 2 minutes on preflow. See attached sheet for gas measurements.

Recovered 250 ft. of heavy mud cut oil  
 Recovered 560 ft. of clean gassy oil gravity 33  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: \_\_\_\_\_

Time Set Packer(s) 9:30 ~~P.M.~~ <sup>A.M.</sup> Time Started Off Bottom 12:30 ~~P.M.~~ <sup>A.M.</sup> Maximum Temperature 125  
 Initial Hydrostatic Pressure (A) 2436 P.S.I.  
 Initial Flow Period Minutes 30 (B) 199 P.S.I. to (C) 150 P.S.I.  
 Initial Closed In Period Minutes 30 (D) 1284 P.S.I.  
 Final Flow Period Minutes 85 (E) 159 P.S.I. to (F) 196 P.S.I.  
 Final Closed In Period Minutes 33 (G) 1224 P.S.I.  
 Final Hydrostatic Pressure (H) 2363 P.S.I.



Home Office: Wichita, Kansas 67201

P.O. Box 1599

(316) 262-5861

### GAS FLOW REPORT

Date 2/18/81 Ticket 9144 Company J Mark Richardson  
 Well Name and No. Jewett #2 Dst No. 1 Interval Tested 4480-4505  
 County Kiowa State Kansas Sec. 3 Twp. 27S Rg. 16W

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
<b>PRE FLOW</b>						
Gas to surface in 2 minutes						
	5 Min	2.5 PSIG	1½" Orifice			595,000 C.F.P.D.
	10 Min	2.5 PSIG	1½" Orifice			595,000 C.F.P.D.
	20 Min	1.5 PSIG	1½" Orifice			456,000 C.F.P.D.
	30 Min	1.5 PSIG	1½" Orifice			456,000 C.F.P.D.

<b>SECOND FLOW</b>						
	5 Min	40" Water	1½" Orifice			440,000 C.F.P.D.
	10 Min	40" water	1½" Orifice			440,000 C.F.P.D.
	20 Min	32" water	1½" Orifice			394,000 C.F.P.D.
	30 Min	28" water	1½" Orifice			368,000 C.F.P.D.
	40 Min	22" water	1½" Orifice			326,000 C.F.P.D.
	50 Min	20" water	1½" Orifice			311,000 C.F.P.D.
	60 Min	18" water	1½" Orifice			295,000 C.F.P.D.
	70 Min	16" water	1½" Orifice			278,000 C.F.P.D.
	80 Min	16" water	1½" Orifice			278,000 C.F.P.D.
	90 Min	16" water	1½" Orifice			278,000 C.F.P.D.

### GAS BOTTLE

Serial No. \_\_\_\_\_ Date Bottle Filled \_\_\_\_\_ Date to be Invoiced 2/18/81

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 1½% per month, equal to 18% 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 J. Mark Richardson

Authorized by J. Mark Richardson

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

Date 2/18/81

Test Ticket No. 9144

Recorder No. 2607

Capacity 4150 Location 4495 Ft.

Clock No. - Elevation 2085 Kelly Bushing Well Temperature 125 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2436</u> P.S.I.	Open Tool	<u>9:30A</u> M	
B First Initial Flow Pressure	<u>199</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>150</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1284</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>85</u> Mins.
E Second Initial Flow Pressure	<u>159</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
F Second Final Flow Pressure	<u>196</u> P.S.I.			
G Final Closed-in Pressure	<u>1224</u> P.S.I.			
H Final Hydrostatic Mud	<u>2363</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.

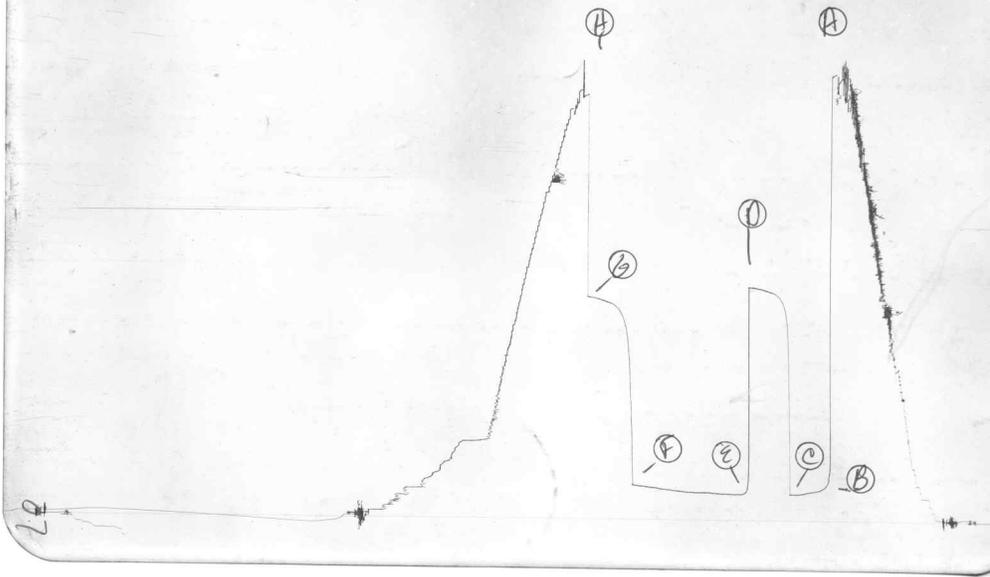
**Second Flow Pressure**  
Breakdown: 17 Inc.  
of 5 mins. and a  
final inc. of 0 Min.

**Final Shut-In**  
Breakdown: 11 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>199</u>	<u>0</u>	<u>150</u>	<u>0</u>	<u>159</u>	<u>0</u>	<u>196</u>
P 2 <u>5</u>	<u>176</u>	<u>3</u>	<u>1002</u>	<u>5</u>	<u>148</u>	<u>3</u>	<u>862</u>
P 3 <u>10</u>	<u>165</u>	<u>6</u>	<u>1182</u>	<u>10</u>	<u>148</u>	<u>6</u>	<u>1061</u>
P 4 <u>15</u>	<u>159</u>	<u>9</u>	<u>1226</u>	<u>15</u>	<u>149</u>	<u>9</u>	<u>1130</u>
P 5 <u>20</u>	<u>152</u>	<u>12</u>	<u>1245</u>	<u>20</u>	<u>151</u>	<u>12</u>	<u>1163</u>
P 6 <u>25</u>	<u>150</u>	<u>15</u>	<u>1257</u>	<u>25</u>	<u>153</u>	<u>15</u>	<u>1182</u>
P 7 _____	_____	<u>18</u>	<u>1263</u>	<u>30</u>	<u>157</u>	<u>18</u>	<u>1194</u>
P 8 _____	_____	<u>21</u>	<u>1270</u>	<u>35</u>	<u>157</u>	<u>21</u>	<u>1203</u>
P 9 _____	_____	<u>24</u>	<u>1276</u>	<u>40</u>	<u>159</u>	<u>24</u>	<u>1209</u>
P10 _____	_____	<u>27</u>	<u>1282</u>	<u>45</u>	<u>159</u>	<u>27</u>	<u>1215</u>
P11 _____	_____	<u>30</u>	<u>1284</u>	<u>50</u>	<u>163</u>	<u>30</u>	<u>1221</u>
P12 _____	_____	_____	_____	<u>55</u>	<u>167</u>	<u>33</u>	<u>1224</u>
P13 _____	_____	_____	_____	<u>60</u>	<u>169</u>	_____	_____
P14 _____	_____	_____	_____	<u>65</u>	<u>176</u>	_____	_____
P15 _____	_____	_____	_____	<u>70</u>	<u>182</u>	_____	_____
P16 _____	_____	_____	_____	<u>75</u>	<u>186</u>	_____	_____
P17 _____	_____	_____	_____	<u>80</u>	<u>190</u>	_____	_____
P18 _____	_____	_____	_____	<u>85</u>	<u>196</u>	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____

JK #9144

I





Home Office: Wichita, Kansas 67201  
 P.O. Box 1599 (316) 262-5861

Company J Mark Richardson Lease & Well No. Jewett #2  
 Elevation 2085 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 9145  
 Date 2/19/81 Sec. 3 Twp. 27S Range 16W County Kiowa State Kansas  
 Test Approved by J Mark Richardson Western Representative Jim Wondra

Formation Test No. 2 Interval Tested from 4510 ft. to 4525 ft. Total Depth 4525 ft.

Packer Depth 4505 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4510 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4515 ft. Recorder Number 2607 Cap. 4150

Bottom Recorder Depth (Outside) 4518 ft. Recorder Number 3351 Cap. 4000

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

Drilling Contractor Gabbert & Jones Rig #9 Drill Collar Length 240 I. D. 2 1/4 in.

Mud Type Premix-Starch viscosity 48 Weight Pipe Length - I. D. - in.

Weight 9.5 Water Loss 11.4 cc. Drill Pipe Length 4241 I. D. 3.8 in.

Chlorides 11,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.

Jars: Make WIC Serial Number 410 Anchor Length 15 ft. Size 5 1/2 OD in.

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

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong blow throughout test. Gas to surface in 80 minutes on second flow - too small to measure.

Recovered 90 ft. of gas cut mud

Recovered     ft. of    

Recovered     ft. of    

Recovered     ft. of    

Recovered     ft. of    

Remarks:    

Time Set Packer(s) 3:15 ~~P.M.~~ A.M. Time Started Off Bottom 6:15 ~~P.M.~~ A.M. Maximum Temperature 125

Initial Hydrostatic Pressure 2457 (A) P.S.I.

Initial Flow Period 30 Minutes (B) 100 P.S.I. to (C) 71 P.S.I.

Initial Closed In Period 30 Minutes (D) 84 P.S.I.

Final Flow Period 85 Minutes (E) 79 P.S.I. to (F) 73 P.S.I.

Final Closed In Period 30 Minutes (G) 517 P.S.I.

Final Hydrostatic Pressure 2436 (H) P.S.I.

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

Date 2/19/81 Test Ticket No. 9145  
 Recorder No. 2607 Capacity 4150 Location 4515 Ft.  
 Clock No. - Elevation 2085 Kelly Bushing Well Temperature 125 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2457</u> P.S.I.	Open Tool	<u>3:15A</u> M	
B First Initial Flow Pressure	<u>100</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>71</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>84</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>85</u> Mins.
E Second Initial Flow Pressure	<u>79</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>73</u> P.S.I.			
G Final Closed-in Pressure	<u>517</u> P.S.I.			
H Final Hydrostatic Mud	<u>2436</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>10</u> Inc.		Breakdown: <u>17</u> Inc.		Breakdown: <u>10</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>100</u>	<u>0</u> <u>71</u>	<u>0</u> <u>79</u>	<u>0</u> <u>79</u>	<u>0</u> <u>73</u>	<u>0</u> <u>73</u>	<u>73</u>
P 2	<u>5</u> <u>84</u>	<u>3</u> <u>71</u>	<u>5</u> <u>76</u>	<u>5</u> <u>76</u>	<u>3</u> <u>127</u>	<u>3</u> <u>127</u>	<u>127</u>
P 3	<u>10</u> <u>76</u>	<u>6</u> <u>71</u>	<u>10</u> <u>75</u>	<u>10</u> <u>75</u>	<u>6</u> <u>174</u>	<u>6</u> <u>174</u>	<u>174</u>
P 4	<u>15</u> <u>72</u>	<u>9</u> <u>71</u>	<u>15</u> <u>74</u>	<u>15</u> <u>74</u>	<u>9</u> <u>227</u>	<u>9</u> <u>227</u>	<u>227</u>
P 5	<u>20</u> <u>72</u>	<u>12</u> <u>71</u>	<u>20</u> <u>74</u>	<u>20</u> <u>74</u>	<u>12</u> <u>271</u>	<u>12</u> <u>271</u>	<u>271</u>
P 6	<u>25</u> <u>72</u>	<u>15</u> <u>72</u>	<u>25</u> <u>74</u>	<u>25</u> <u>74</u>	<u>15</u> <u>316</u>	<u>15</u> <u>316</u>	<u>316</u>
P 7	<u>30</u> <u>71</u>	<u>18</u> <u>74</u>	<u>30</u> <u>74</u>	<u>30</u> <u>74</u>	<u>18</u> <u>360</u>	<u>18</u> <u>360</u>	<u>360</u>
P 8		<u>21</u> <u>77</u>	<u>35</u> <u>74</u>	<u>35</u> <u>74</u>	<u>21</u> <u>398</u>	<u>21</u> <u>398</u>	<u>398</u>
P 9		<u>24</u> <u>80</u>	<u>40</u> <u>74</u>	<u>40</u> <u>74</u>	<u>24</u> <u>436</u>	<u>24</u> <u>436</u>	<u>436</u>
P10		<u>27</u> <u>82</u>	<u>45</u> <u>74</u>	<u>45</u> <u>74</u>	<u>27</u> <u>470</u>	<u>27</u> <u>470</u>	<u>470</u>
P11		<u>30</u> <u>84</u>	<u>50</u> <u>74</u>	<u>50</u> <u>74</u>	<u>30</u> <u>517</u>	<u>30</u> <u>517</u>	<u>517</u>
P12			<u>55</u> <u>74</u>	<u>55</u> <u>74</u>			
P13			<u>60</u> <u>73</u>	<u>60</u> <u>73</u>			
P14			<u>65</u> <u>73</u>	<u>65</u> <u>73</u>			
P15			<u>70</u> <u>73</u>	<u>70</u> <u>73</u>			
P16			<u>75</u> <u>73</u>	<u>75</u> <u>73</u>			
P17			<u>80</u> <u>73</u>	<u>80</u> <u>73</u>			
P18			<u>85</u> <u>73</u>	<u>85</u> <u>73</u>			
P19							
P20							

JA # 9145

1

