



Home Office: Great Bend, Kansas  
 P. O. Box 793 Gladstone 3-7903

Company Pickrell Drilling Company Lease & Well No. Schaben #2  
 Elevation 2290 Kelly Bushings Ticket Number 4639  
 Date Feb. 3, 1965 Sec. 31 Twp. 19s Range 21w County Ness State Kansas  
 Test Approved by Ralph W. Rutwe Western Representative Norman Allen

Formation Test No. 1 O.K.  Misrun  Interval Tested From 4386' to 4433' Total Depth 4433'  
 Size Main Hole 7 7/8 Rat Hole  Conv.  B.T.  Damaged  Yes no No Conv.  B.T.  Damaged  Yes no No  
 Packer Depth 4381 Ft. Size 6 3/4 Packer Depth 4386 Ft. Size 6 3/8  
 Straddle  Yes  No  Conv.  B.T.  Damaged  Yes  No  
 Tool Size 5 1/2 OD Packer Depth 4386 Ft. Size 6 3/4 Tool Jt. Size 4 1/2 FH Anchor Length 47 Ft. Size 5 1/2 OD & D.C.

RECORDERS Depth 4390 Ft. Clock No. 6860 Depth 4393 Ft. Clock No. 154  
 Top Make Kuster Cap. 3150 No. 1560 Inside Outside Bottom Make Western Cap. 6000 No. 35 Inside Outside  
 Below Straddle: Depth  Clock No.  Inside Outside Depth  Ft. Clock No.  Inside Outside  
 Top Make  Cap.  No.  Inside Outside Bottom Make  Cap.  No.  Inside Outside

Time Set Packer 6:08 P M  
 Tool Open I.F.P. From 6:10 M to 6:20 M Hr. 10 Min. From (B) 26 P.S.I. To (C) 26 P.S.I.  
 Tool Closed I.C.I.P. From 6:20 M. to 6:50 M. Hr. 30 Min. (D) 995 P.S.I.  
 Tool Open F.F.P. From 6:50 M. to 8:05 M. 1 Hr. 15 Min. From (E) 29 P.S.I. To (F) 59 P.S.I.  
 Tool Closed F.C.I.P. From 8:05 M. to 8:35 P M. Hr. 30 Min. (G) 806 P.S.I.  
 Initial Hydrostatic Pressure (A) 2275 P.S.I. Final Hydrostatic Pressure (H) 2240 P.S.I.

SURFACE INFORMATION	Size Choke	In.	Max. Press. P.S.I.	Time	Description of Flow
	<u>3/4</u>				

BLOW Weak blow ten minutes. Flushed tool once. Good surge/ Bottom Choke Size 3/4 In.  
 Did Well Flow  Yes  No  Recovery Total Ft. 110ft. drilling mud/

Reversed Out  Yes  No  Mud Type starch Viscosity 40 Weight 10 Maximum Temp. 114  
 EXTRA EQUIPMENT: Dual Packers  Safety Joint  Jars: Size no Make  Ser. No.   
 Type Circ. Sub. plug Did Tool Plug?  Where?  Did Packer Hold?   
 Length Drill Pipe 3586 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 780 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars 1  
 I. D. Drill Collars  in. Length D. S. T. Tool 67 ft.

Remarks

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

Date February 3, 1965

Test Ticket No. 4639

Recorder No. 1560 Capacity 3150 Location 4390 Ft.

Clock No. 6860 Elevation 2290 Kelly Bushings Well Temperature 114 °F

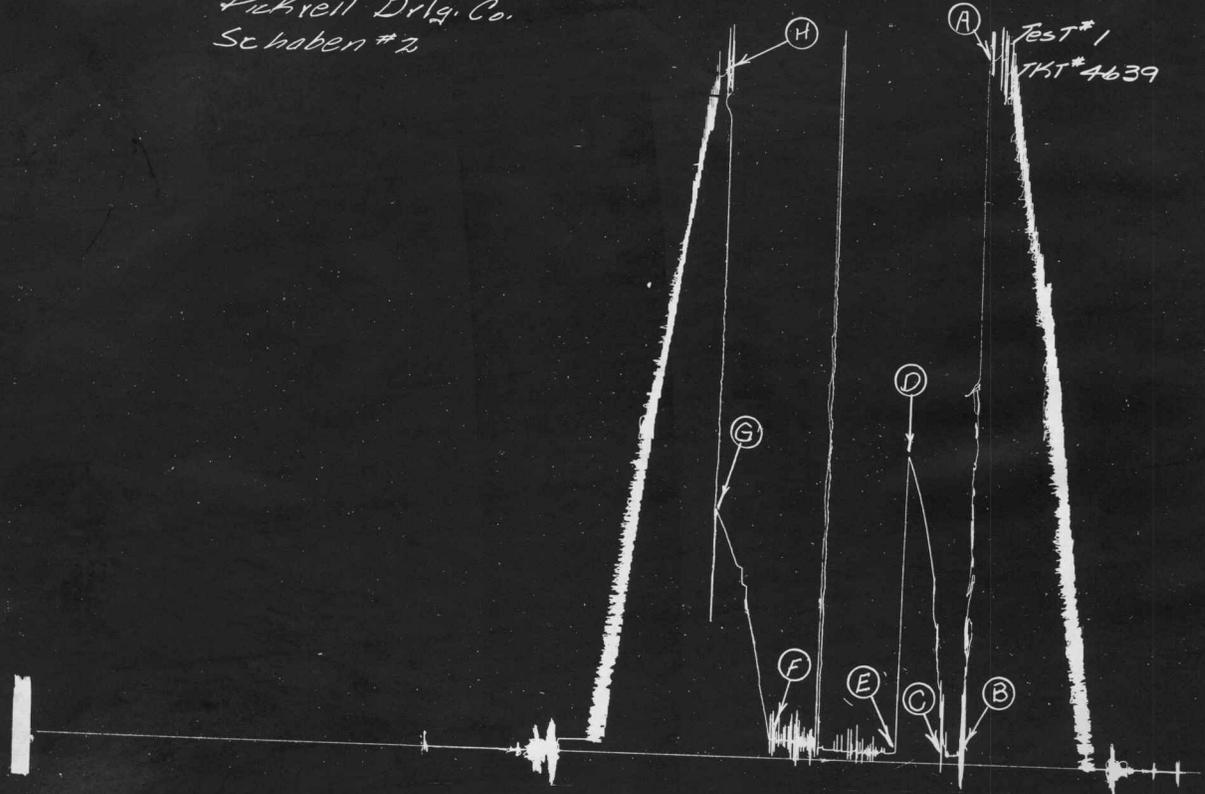
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2275</u> P.S.I.	Opened Tool	<u>6:08P</u>	
B First Initial Flow Pressure	<u>26</u> P.S.I.	First Flow Pressure	<u>10</u> Mins.	<u>10</u> Mins.
C First Final Flow Pressure	<u>26</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>995</u> P.S.I.	Second Flow Pressure	<u>75</u> Mins.	<u>75</u> Mins.
E Second Initial Flow Pressure	<u>29</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>35</u> Mins.
F Second Final Flow Pressure	<u>59</u> P.S.I.			
G Final Closed-in Pressure	<u>806</u> P.S.I.			
H Final Hydrostatic Mud	<u>2240</u> P.S.I.			

**PRESSURE BREAKDOWN**

Point Mins.	First Flow Press.		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	of <u>5</u> mins. and a final inc. of <u>0</u> Min.		of <u>3</u> mins. and a final inc. of <u>0</u> Min.		of <u>5</u> mins. and a final inc. of <u>0</u> Min.		of <u>3</u> mins. and a final inc. of <u>2</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1 <u>0</u>	<u>26</u>	<u>0</u>	<u>26</u>	<u>0</u>	<u>29</u>	<u>0</u>	<u>59</u>	
P 2 <u>5</u>	<u>26</u>	<u>3</u>	<u>180</u>	<u>5</u>	<u>29</u>	<u>3</u>	<u>153</u>	
P 3 <u>10</u>	<u>26</u>	<u>6</u>	<u>255</u>	<u>10</u>	<u>30</u>	<u>6</u>	<u>234</u>	
P 4		<u>9</u>	<u>349</u>	<u>15</u>	<u>30</u>	<u>9</u>	<u>334</u>	
P 5		<u>12</u>	<u>515</u>	<u>20</u>	<u>31</u>	<u>12</u>	<u>409</u>	
P 6		<u>15</u>	<u>668</u>	<u>25</u>	<u>31</u>	<u>15</u>	<u>490</u>	
P 7		<u>18</u>	<u>748</u>	<u>30</u>	<u>32</u>	<u>18</u>	<u>567</u>	
P 8		<u>21</u>	<u>822</u>	<u>35</u>	<u>34</u>	<u>21</u>	<u>624</u>	
P 9		<u>24</u>	<u>886</u>	<u>40</u>	<u>35</u>	<u>24</u>	<u>648</u>	
P10		<u>27</u>	<u>945</u>	<u>45</u>	<u>37</u>	<u>27</u>	<u>696</u>	
P11		<u>30</u>	<u>995</u>	<u>50</u>	<u>40</u>	<u>30</u>	<u>737</u>	
P12				<u>55</u>	<u>44</u>	<u>33</u>	<u>780</u>	
P13				<u>60</u>	<u>48</u>	<u>35</u>	<u>806</u>	
P14				<u>65</u>	<u>51</u>			
P15				<u>70</u>	<u>55</u>			
P16				<u>75</u>	<u>59</u>			
P17								
P18								
P19								
P20								

Dickrell Dring Co.  
Schaben #2

Test #1  
TKT #4639





Home Office: Great Bend, Kansas  
P. O. Box 793 Gladstone 3-7903

Company Pickrell Drilling Company Lease & Well No. Schaben #2  
Elevation 2290 Kelly Bushings Ticket Number 4640  
Date Feb. 4, 1965 Sec. 31 Twp. 19s Range 21w County Ness State Kansas  
Test Approved by Ralph W. Ruwwe Western Representative Norman Allen

Formation Test No. 2 O.K.  Misrun \_\_\_\_\_ Interval Tested From 4433' to 4438' Total Depth 4438'  
Size Main Hole 7 7/8 Rat Hole \_\_\_\_\_ Conv. \_\_\_\_\_ B.T.  Damaged \_\_\_\_\_ Yes no No \_\_\_\_\_ Conv.  B.T. \_\_\_\_\_ Damaged \_\_\_\_\_ Yes no No \_\_\_\_\_  
Packer Depth 4428 Ft. Size 6 3/4 Packer Depth 4433 Ft. Size 6 3/4  
Straddle \_\_\_\_\_ Yes \_\_\_\_\_ No no Conv. \_\_\_\_\_ B.T. \_\_\_\_\_ Damaged \_\_\_\_\_ Yes \_\_\_\_\_ No \_\_\_\_\_  
Packer Depth \_\_\_\_\_ Ft. Size \_\_\_\_\_  
Tool Size 5 1/2 OD Tool Jt. Size 4 1/2 FH Anchor Length 5 Ft. Size 5 1/2 OD

RECORDERS Depth 4423 (Ap) Ft. Clock No. 6860 Depth 4437 Ft. Clock No. 154  
Top Make Kuster Cap. 3150 No. 1560 ~~Inside~~ Outside Bottom Make Western Cap. 6000 No. 35 ~~Inside~~ Outside  
Below Straddle: Depth \_\_\_\_\_ Clock No. \_\_\_\_\_ ~~Inside~~ Outside Depth \_\_\_\_\_ Ft. Clock No. \_\_\_\_\_ ~~Inside~~ Outside  
Top Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ ~~Inside~~ Outside Bottom Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ ~~Inside~~ Outside

Time Set Packer 3:58 P. M  
Tool Open I.F.P. From 4:00 M to 4:05 M Hr. 5 Min. From (B) 43 P.S.I. To (C) 43 P.S.I.  
Tool Closed I.C.I.P. From 4:05 M. to 4:35 M. Hr. 30 Min. (D) 1399 P.S.I.  
Tool Open F.F.P. From 4:35 M. to 5:35 M. 1 Hr. Min. From (E) 54 P.S.I. To (F) 76 P.S.I.  
Tool Closed F.C.I.P. From 5:35 M. to 6:05P M. Hr. 30 Min. (G) 1283 P.S.I.  
Initial Hydrostatic Pressure (A) 2343 P.S.I. Final Hydrostatic Pressure (H) 2332 P.S.I.

SURFACE Size Choke 3/4 in. Max. Press. P.S.I. \_\_\_\_\_ Time \_\_\_\_\_ Description of Flow \_\_\_\_\_  
INFORMATION \_\_\_\_\_ M. \_\_\_\_\_  
\_\_\_\_\_ M. \_\_\_\_\_  
\_\_\_\_\_ M. \_\_\_\_\_

BLOW Fair blow five minutes to ICIP. Very weak 25 minutes. Flushed tool once. / Good surge. Bottom Choke Size 3/4 in.  
Did Well Flow \_\_\_\_\_ Yes no No Recovery Total Ft. 115 very slightly oil cut mud

Reversed Out \_\_\_\_\_ Yes no No Mud Type starch Viscosity 47 Weight 9.9 Maximum Temp. 114 °F  
EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Jars: Size no Make \_\_\_\_\_ Ser. No. \_\_\_\_\_  
Type Circ. Sub. plug Did Tool Plug? no Where? \_\_\_\_\_ Did Packer Hold? yes  
Length Drill Pipe 3628 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 780 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars \_\_\_\_\_ ft.  
I. D. Drill Collars \_\_\_\_\_ in. Length D. S. T. Tool 30 ft.

Remarks

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

Date February 4, 1965

Test Ticket No. 4640

Recorder No. 1560 Capacity 3150 Location 4423 Ft.

Clock No. 6860 Elevation 2290 Kelly Bushings Well Temperature 114 °F

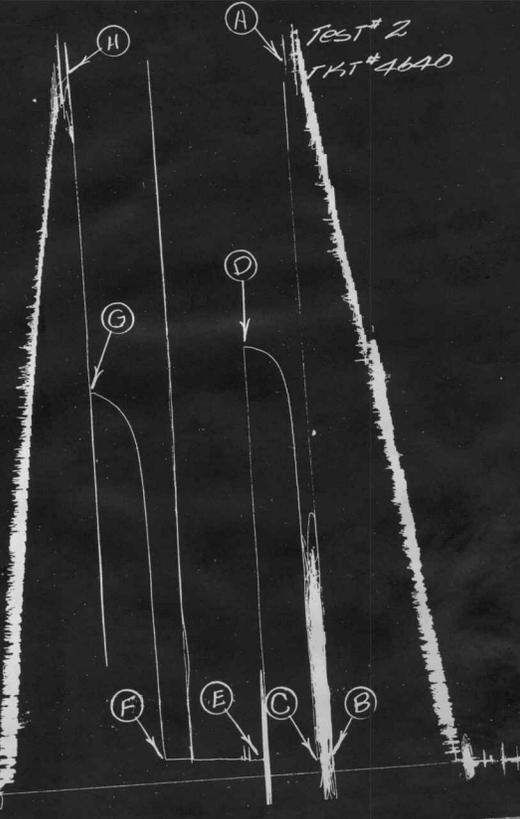
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2343</u> P.S.I.	Opened Tool	<u>3:58P</u> M	
B First Initial Flow Pressure	<u>43</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>43</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>1399</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>54</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>76</u> P.S.I.			
G Final Closed-in Pressure	<u>1283</u> P.S.I.			
H Final Hydrostatic Mud	<u>2332</u> P.S.I.			

**PRESSURE BREAKDOWN**

Point Mins.	First Flow Press.		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	of <u>1</u> mins. and a final inc. of <u>0</u> Min.		of <u>9</u> mins. and a final inc. of <u>0</u> Min.		of <u>12</u> mins. and a final inc. of <u>0</u> Min.		of <u>10</u> mins. and a 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>43</u>	<u>0</u>	<u>43</u>	<u>0</u>	<u>54</u>	<u>0</u>	<u>76</u>	
P 2 <u>5</u>	<u>43</u>	<u>3</u>	<u>1259</u>	<u>5</u>	<u>55</u>	<u>3</u>	<u>1006</u>	
P 3		<u>6</u>	<u>1325</u>	<u>10</u>	<u>56</u>	<u>6</u>	<u>1135</u>	
P 4		<u>9</u>	<u>1355</u>	<u>15</u>	<u>59</u>	<u>9</u>	<u>1186</u>	
P 5		<u>12</u>	<u>1371</u>	<u>20</u>	<u>61</u>	<u>12</u>	<u>1212</u>	
P 6		<u>15</u>	<u>1382</u>	<u>25</u>	<u>63</u>	<u>15</u>	<u>1232</u>	
P 7		<u>18</u>	<u>1388</u>	<u>30</u>	<u>65</u>	<u>18</u>	<u>1251</u>	
P 8		<u>21</u>	<u>1395</u>	<u>35</u>	<u>67</u>	<u>21</u>	<u>1263</u>	
P 9		<u>24</u>	<u>1398</u>	<u>40</u>	<u>70</u>	<u>24</u>	<u>1267</u>	
P10		<u>27</u>	<u>1399</u>	<u>45</u>	<u>72</u>	<u>27</u>	<u>1278</u>	
P11				<u>50</u>	<u>74</u>	<u>30</u>	<u>1283</u>	
P12				<u>55</u>	<u>75</u>			
P13				<u>60</u>	<u>76</u>			
P14								
P15								
P16								
P17								
P18								
P19								
P20								

Pickrell Drlg. Co.  
Schaben # 2

TEST # 2  
RHT # 4640





Home Office: Great Bend, Kansas  
 P. O. Box 793 Gladstone 3-7903

Company Bickrell Drilling Company Lease & Well No. Schaben #2  
 Elevation 2290 Kelly Bushings Ticket Number 4641  
 Date Feb. 5, '65 Twp. 19s Range 21w County Ness State Kansas  
 Test Approved by Ralph W. Ruwe Western Representative Norman Allen

Formation Test No. 3 O.K.  Misrun \_\_\_\_\_ Interval Tested From 4438' to 4443' Total Depth 4443'  
 Size Main Hole 7 7/8 Rat Hole \_\_\_\_\_ Conv.  B.T.  Damaged Yes  No  Conv.  B.T. \_\_\_\_\_ Damaged Yes  No   
 Packer Depth 4433 Ft. Size 6 3/4 Packer Depth 4438 Ft. Size 6 3/4  
 Straddle Yes \_\_\_\_\_ No  Conv. \_\_\_\_\_ B.T. \_\_\_\_\_ Damaged Yes \_\_\_\_\_ No \_\_\_\_\_  
 Tool Size 5 1/2 OD Tool Jt. Size 4 1/2 FH Anchor Length 5 Ft. Size 5 1/2 OD

RECORDERS Depth 4428 (AP) Ft. Clock No. 6860 Depth 4442 Ft. Clock No. 154  
 Top Make Kuster Cap. 3150 No. 1560 Inside  Outside \_\_\_\_\_ Bottom Make Western Cap. 6000 No. 35 Inside  Outside \_\_\_\_\_  
 Below Straddle: Depth \_\_\_\_\_ Clock No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_  
 Top Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_  
 Bottom Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_

Time Set Packer 5:43 A M  
 Tool Open I.F.P. From 5:45 M to 5:50 M Hr. 5 Min. From (B) 23 P.S.I. To (C) 23 P.S.I.  
 Tool Closed I.C.I.P. From 5:50 M. to 6:20 M. Hr. 30 Min. (D) 1320 P.S.I.  
 Tool Open F.F.P. From 6:20 M. to 8:20 M. 2 Hr. Min. From (E) 32 P.S.I. To (F) 113 P.S.I.  
 Tool Closed F.C.I.P. From 8:20 M. to 8:50 M. Hr. 30 Min. (G) 1339 P.S.I.  
 Initial Hydrostatic Pressure (A) 2320 P.S.I. Final Hydrostatic Pressure (H) 2314 P.S.I.

SURFACE INFORMATION	Size Choke	In.	Max. Press. P.S.I.	Time	Description of Flow
	<u>3/4</u>				

BLOW Weak blow throughout test. Bottom Choke Size 3/4 in.  
 Did Well Flow Yes  No  Recovery Total Ft. 20' oil 30' watery mud - 180 ft. salt water  
230' total fluid. Mud

Reversed Out Yes  No  Mud Type starch Viscosity 47 Weight 9.9 Maximum Temp. 114 °F

EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Jars: Size no Make \_\_\_\_\_ Ser. No. \_\_\_\_\_  
 Type Circ. Sub. plug Did Tool Plug? no Where? \_\_\_\_\_ Did Packer Hold? yes  
 Length Drill Pipe 3633 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 780 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars \_\_\_\_\_ ft.  
 I. D. Drill Collars \_\_\_\_\_ in. Length D. S. T. Tool 30 ft.

Remarks

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

Date February 5, 1965

Test Ticket No. 4641

Recorder No. 1560 Capacity 3150 Location 4428 Ft.

Clock No. 6860 Elevation 2290 Kelly Bushings Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2320</u> P.S.I.	Opened Tool	<u>5:43 A</u>	<u>M</u>
B First Initial Flow Pressure	<u>23</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>23</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>1380</u> P.S.I.	Second Flow Pressure	<u>120</u> Mins.	<u>117</u> Mins.
E Second Initial Flow Pressure	<u>32</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>113</u> P.S.I.			
G Final Closed-in Pressure	<u>1339</u> P.S.I.			
H Final Hydrostatic Mud	<u>2314</u> P.S.I.			

**PRESSURE BREAKDOWN**

Point Mins.	First Flow Press.		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	<u>1</u>		<u>9</u>		<u>23</u>		<u>10</u>	
	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>2</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>23</u>	<u>0</u>	<u>23</u>	<u>0</u>	<u>32</u>	<u>0</u>	<u>113</u> <del>113</del>	
P 2 <u>5</u>	<u>23</u>	<u>3</u>	<u>1271</u>	<u>5</u>	<u>33</u>	<u>3</u>	<u>504</u>	
P 3		<u>6</u>	<u>1328</u>	<u>10</u>	<u>36</u>	<u>6</u>	<u>1232</u>	
P 4		<u>9</u>	<u>1348</u>	<u>15</u>	<u>40</u>	<u>9</u>	<u>1258</u>	
P 5		<u>12</u>	<u>1361</u>	<u>20</u>	<u>45</u>	<u>12</u>	<u>1280</u>	
P 6		<u>15</u>	<u>1368</u>	<u>25</u>	<u>48</u>	<u>15</u>	<u>1299</u>	
P 7		<u>18</u>	<u>1372</u>	<u>30</u>	<u>53</u>	<u>18</u>	<u>1309</u>	
P 8		<u>21</u>	<u>1375</u>	<u>35</u>	<u>56</u>	<u>21</u>	<u>1318</u>	
P 9		<u>24</u>	<u>1379</u>	<u>40</u>	<u>61</u>	<u>24</u>	<u>1328</u>	
P10		<u>27</u>	<u>1380</u>	<u>45</u>	<u>65</u>	<u>27</u>	<u>1333</u>	
P11				<u>50</u>	<u>69</u>	<u>30</u>	<u>1339</u>	
P12				<u>55</u>	<u>73</u>			
P13				<u>60</u>	<u>76</u>			
P14				<u>65</u>	<u>80</u>			
P15				<u>70</u>	<u>83</u>			
P16				<u>75</u>	<u>87</u>			
P17				<u>80</u>	<u>89</u>			
				<u>85</u>	<u>94</u>			

b30  
b16  
L 10

90  
91  
92  
93  
94  
95  
96  
97  
98  
99

Pickrell Drilg. Co.  
Schaben #2

TEST # 3  
TKT # 4641

