



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

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 5629

Elevation 2442 G.L. Formation Morrow Sand Eff. Pay — Ft.

District Pratt Date 2/29/80 Customer Order No. —

COMPANY NAME Pickrell & Co.

ADDRESS 110 N. Market Suite 205 - Wichita

LEASE AND WELL NO. McCaustland #2A COUNTY Clark STATE KS Sec. 10 Twp. 30S Rge. 22W

Mail Invoice To Same Co. Name Address No. Copies Requested 5

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 1 Interval Tested from 5310 ft. to 5375 ft. Total Depth 5375 ft.

Packer Depth 5305 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Packer Depth 5310 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 5365 ft. Recorder Number 2607 Cap. 4/50

Bottom Recorder Depth (Outside) 5368 ft. Recorder Number 3351 Cap. 4000

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

Drilling Contractor P.R. Lauch Rig #1 Drill Collar Length 310 I. D. 2 1/4 in.

Mud Type Premix-Dripac Viscosity 52 Weight Pipe Length — I. D. — in.

Weight 9.4 Water Loss 18.4 cc. Drill Pipe Length 4976 I. D. 3.8 in.

Chlorides 25,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.

Jars: Make — Serial Number — Anchor Length 65 ft. Size 5 1/2 in.

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

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

Blow: Weak blow throughout first flow period
Weak blow died in 7 min on second flow period

Recovered 10 ft. of Drilg Mud

Recovered — ft. of —

Recovered — ft. of —

Recovered — ft. of —

Recovered — ft. of —

Remarks: —

Time Set Packer(s) 1:40 A.M. Time Started Off Bottom 4:40 A.M. Maximum Temperature —

Initial Hydrostatic Pressure (A) — 2735 P.S.I.

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

Initial Closed In Period Minutes 60 (D) — P.S.I.

Final Flow Period Minutes 30 (E) — P.S.I. to (F) — P.S.I.

Final Closed In Period Minutes 60 (G) — P.S.I.

Final Hydrostatic Pressure (H) — 2731 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages 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, of 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 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Larry J. Richardson
Signature of Customer or his authorized representative

Western Representative Jim Wondra Thank you

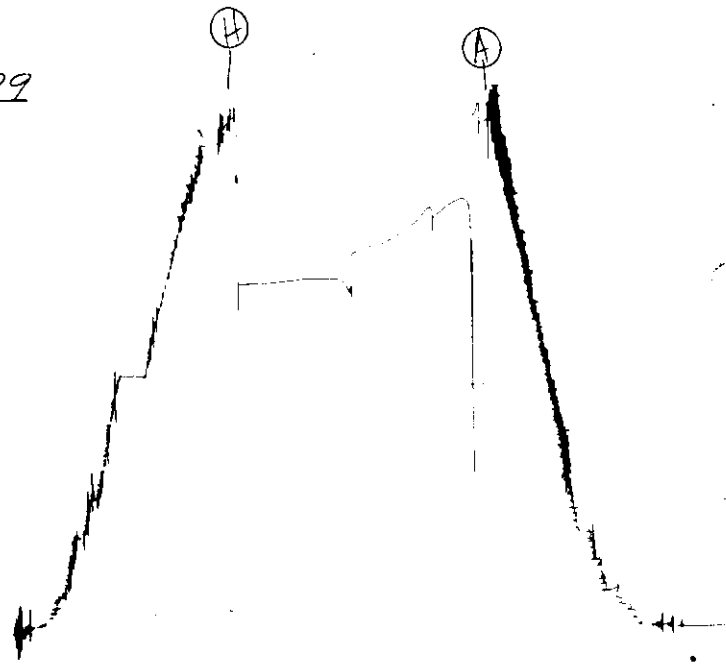
FIELD INVOICE

Open Hole Test \$ 275.00
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Extra Packer \$
Circ. S.p. \$
Milling \$
Pump Sampler \$
Extra Charts \$

TOTAL \$ 275.00

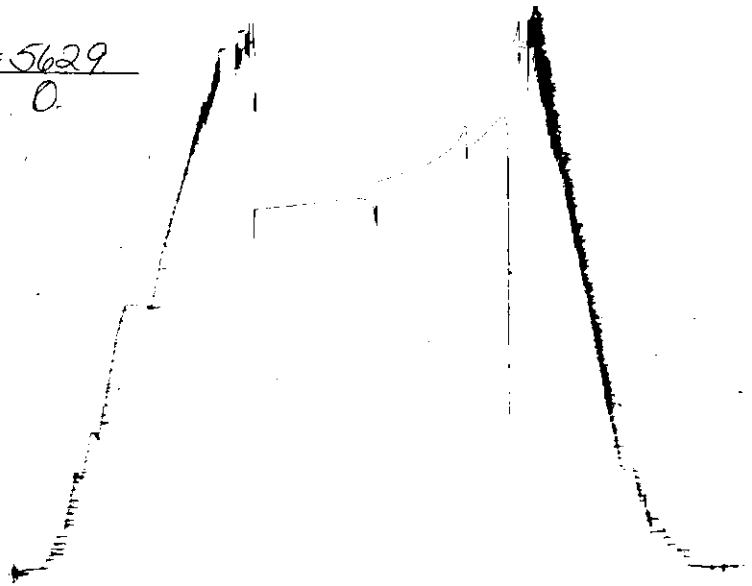
TKt #5629
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19



TKt #5629
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51



Company Pickrell Drilling Company Lease & Well No. McCaustland "A" #2
Elevation 2442 Ground Level Formation Morrow Sand Effective Pay --- Ft. Ticket No. 5629
Date 2/29/80 Sec. 10 Twp. 30S Range 22W County Clark State Kansas
Test Approved by Larry Richardson Western Representative Jim Wondra

Formation Test No. 1 Interval Tested from 5310 ft. to 5375 ft. Total Depth 5375 ft.

Packer Depth 5305 ft. Size 6 3/4 in.

Packer Depth - ft. Size - in.

Packer Depth 5310 ft. Size 6 3/4 in.

Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 5365 ft.

Recorder Number 2607 Cap. 4150

Bottom Recorder Depth (Outside) 5368 ft.

Recorder Number 3351 Cap. 4000

Below Straddle Recorder Depth - ft.

Recorder Number - Cap. -

Drilling Contractor D. R. Lauck Drilling Rig #1

Drill Collar Length 310 I. D. 2 1/4 in.

Mud Type premix-driscopac Viscosity 52

Weight Pipe Length - I. D. - in.

Weight 9.4 Water Loss 18.4 cc.

Drill Pipe Length 4976 I. D. 3.8 in.

Chlorides 25,000 P.P.M.

Test Tool Length 21 ft. Tool Size 5 1/2 OD in.

Jars: Make -- Serial Number ---

Anchor Length 65 ft. Size 5 1/2 OD in.

Did Well Flow? No 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: Weak blow throughout first flow period. Weak blow died in seven minutes on second flow period.

10 drilling mud

Recovered 10 ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

MISRUN

Remarks:

Time Set Packer(s) 1:40 AM. Time Started Off Bottom 4:40 AM. Maximum Temperature -
PM. PM.

Initial Hydrostatic Pressure 2735 P.S.I.

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

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

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

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

Final Hydrostatic Pressure 2731 P.S.I.



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

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 5630

Elevation 2442 G.L Formation Morrow Sand Eff. Pay — Ft.

District Pratt Date 2/29/80 Customer Order No. —

COMPANY NAME Pickrell
ADDRESS Litwin Bldg Suite 205 110 North Market Wichita, Ks 67202

LEASE AND WELL NO McCaustland #2-A COUNTY Clark STATE Ks Sec. 10 Twp 30S Rge 22W

Mail Invoice To Same No. Copies Requested 5

Co. Name Same Address — No. Copies Requested 5

Mail Charts To Same Address — No. Copies Requested 5

Formation Test No. 2 Interval Tested, from 5310 ft. to 5375 ft. Total Depth 5375 ft.

Packer Depth 5305 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Packer Depth 5310 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 5365 ft. Recorder Number 2607 Cap. 4150

Bottom Recorder Depth (Outside) 5368 ft. Recorder Number 3351 Cap. 4000

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

Drilling Contractor D. R. Lauck Rig #1 Drill Collar Length 310 I. D. 2 1/4 in.

Mud Type Premix-Drispac Viscosity 46 Weight Pipe Length — I. D. — in.

Weight 9.5 Water Loss 18 cc. Drill Pipe Length 4976 I. D. 3.8 in.

Chlorides 28,000 P.P.M. Test Tool Length 21 ft. Tool Size 5500 in.

Jars: Make — Serial Number — Anchor Length 6.5 ft. Size 5500 in.

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

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

Blow: Weak increased to strong blow on first flow period

Strong blow throughout second flow period Gas to surface in 10 min on second flow

Recovered 510 ft. of Gas Cut Mud

Recovered — ft. of —

Recovered — ft. of —

Recovered — ft. of —

Recovered — ft. of —

Remarks: —

Time Set Packer(s) 7:20 ~~AM~~ P.M. Time Started Off Bottom 11:50 ~~AM~~ P.M. Maximum Temperature 134°

Initial Hydrostatic Pressure — (A) 2710 P.S.I.

Initial Flow Period 30 Minutes (B) 169 P.S.I. to (C) 222 P.S.I.

Initial Closed In Period 60 Minutes (D) 1500 P.S.I.

Final Flow Period 90 Minutes (E) 210 P.S.I. to (F) 222 P.S.I.

Final Closed In Period 90 Minutes (G) 1384 P.S.I.

Final Hydrostatic Pressure — (H) 2689 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages 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, of 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 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By James E. Richard
Signature of Customer or his authorized representative

Western Representative Jim Wondra Thank You

FIELD INVOICE

Open Hole Test \$ 600.00
Misrun \$ —
Straddle Test \$ —
Jars \$ —
Selective Zone \$ —
Safety Joint \$ —
Sampling \$ —
Evaluation \$ —
Extra Packer \$ —
Circ. Sub. \$ —
Mileage \$ —
Fluid Sampler \$ —
Extra Charts \$ —

TOTAL \$ 600.00

RECEIVED
MAR - 3 1980



GAS FLOW REPORT

Nº 1895

Date 2/29/80 Ticket # 5630 Company Pickrell
 Well Name and No. Mc Caustland #2-A Dst No. 2 Interval Tested 5310 - 5375
 County Clark State Ks Sec. 10 Twp. 30 Rg. 22

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

SECOND FLOW

Gas to surface in 10 min					
15	8 H ₂ O	1"			73,100 C.F.P.D
20	6 "	"			63,300 " "
30	4 "	"			51,600 " "
40					
50					
60					
70					
80					
90					
Stabilized throughout rest of opening					

GAS BOTTLE

Serial No. _____ Date Bottle Filled _____ Date to be Invoiced _____

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 _____

Authorized by _____

WESTERN TESTING CO., INC.

Pressure Data

Date 2-29-80 Recorder No. 2607 Capacity 4150 Test Ticket No. 5630
 Clock No. _____ Elevation 2442 9.2. Location 5365 Ft. Well Temperature 134 °F
 Point _____ Pressure _____ Time Given _____ Time Computed _____
 A Initial Hydrostatic Mud 2727 P.S.I. Open Tool 7:20 P M.
 B First Initial Flow Pressure 178 P.S.I. First Flow Pressure 30 Mins. 30 Mins.
 C First Final Flow Pressure 239 P.S.I. Initial Closed-in Pressure 60 Mins. 60 Mins.
 D Initial Closed-in Pressure 1503 P.S.I. Second Flow Pressure 90 Mins. 90 Mins.
 E Second Initial Flow Pressure 252 P.S.I. Final Closed-in Pressure 90 Mins. 87 Mins.
 F Second Final Flow Pressure 219 P.S.I.
 G Final Closed-in Pressure 1400 P.S.I.
 H Final Hydrostatic Mud 2710 P.S.I.

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>18</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>29</u> Inc. of <u>3</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>178</u>	<u>0</u>	<u>239</u>	<u>0</u>	<u>252</u>	<u>0</u>	<u>219</u>
P 2 <u>5</u>	<u>180</u>	<u>3</u>	<u>483</u>	<u>5</u>	<u>195</u>	<u>3</u>	<u>294</u>
P 3 <u>10</u>	<u>229</u>	<u>6</u>	<u>664</u>	<u>10</u>	<u>205</u>	<u>6</u>	<u>395</u>
P 4 <u>15</u>	<u>225</u>	<u>9</u>	<u>787</u>	<u>15</u>	<u>↓</u>	<u>9</u>	<u>490</u>
P 5 <u>20</u>	<u>224</u>	<u>12</u>	<u>870</u>	<u>20</u>	<u>↓</u>	<u>12</u>	<u>573</u>
P 6 <u>25</u>	<u>237</u>	<u>15</u>	<u>944</u>	<u>25</u>	<u>205</u>	<u>15</u>	<u>648</u>
P 7 <u>30</u>	<u>239</u>	<u>18</u>	<u>1008</u>	<u>30</u>	<u>206</u>	<u>18</u>	<u>716</u>
P 8 <u>35</u>		<u>21</u>	<u>1065</u>	<u>35</u>	<u>205</u>	<u>21</u>	<u>777</u>
P 9 <u>40</u>		<u>24</u>	<u>1118</u>	<u>40</u>	<u>205</u>	<u>24</u>	<u>831</u>
P10 <u>45</u>		<u>27</u>	<u>1167</u>	<u>45</u>	<u>205</u>	<u>27</u>	<u>886</u>
P11 <u>50</u>		<u>30</u>	<u>1215</u>	<u>50</u>	<u>206</u>	<u>30</u>	<u>929</u>
P12 <u>55</u>		<u>33</u>	<u>1257</u>	<u>55</u>	<u>206</u>	<u>33</u>	<u>973</u>
P13 <u>60</u>		<u>36</u>	<u>1293</u>	<u>60</u>	<u>207</u>	<u>36</u>	<u>1010</u>
P14		<u>39</u>	<u>1326</u>	<u>65</u>	<u>210</u>	<u>39</u>	<u>1050</u>
P15		<u>42</u>	<u>1359</u>	<u>70</u>	<u>212</u>	<u>42</u>	<u>1084</u>
P16		<u>45</u>	<u>1393</u>	<u>75</u>	<u>214</u>	<u>45</u>	<u>1119</u>
P17		<u>48</u>	<u>1422</u>	<u>80</u>	<u>216</u>	<u>48</u>	<u>1146</u>
P18		<u>51</u>	<u>1445</u>	<u>85</u>	<u>218</u>	<u>51</u>	<u>1176</u>
P19		<u>54</u>	<u>1473</u>	<u>90</u>	<u>219</u>	<u>54</u>	<u>1202</u>
P20		<u>57</u>	<u>1492</u>			<u>57</u>	<u>1224</u>
		<u>60</u>	<u>1503</u>			<u>60</u>	<u>1247</u>

WESTERN TESTING CO., INC.

Pressure Data

Date _____ Test Ticket No. 5630

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

First Flow Pressure Breakdown: _____ Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: _____ Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: _____ Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: _____ Inc. of <u>3</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 _____		63				63	<u>1268</u>
P 2 _____		66				66	<u>1288</u>
P 3 _____		69				69	<u>1307</u>
P 4 _____		72				72	<u>1326</u>
P 5 _____		75				75	<u>1343</u>
P 6 _____		78				78	<u>1357</u>
P 7 _____		81				81	<u>1374</u>
P 8 _____		84				84	<u>1387</u>
P 9 _____		87				87	<u>1400</u>
P10 _____		90				90	
P11 _____		93				93	
P12 _____		96				96	
P13 _____		99				99	
P14 _____		102				102	
P15 _____		105				105	
P16 _____		108				108	
P17 _____		111				111	
P18 _____		114				114	
P19 _____		117				117	
P20 _____		120				120	

Company Pickrell Drilling Company Lease & Well No. McCaustland #2-A
Elevation 2442 Ground Level Formation Morrow Sand Effective Pay - Ft. Ticket No. 5630
Date 2-29-80 Sec. 10 Twp. 30S Range 22W County Clark State Kansas
Test Approved by Larry J. Richardson Western Representative Jim Wondra

Formation Test No. 2 Interval Tested from 5310 ft. to 5375 ft. Total Depth 5375 ft.

Packer Depth 5305 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 5310 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 5365 ft. Recorder Number 2607 Cap. 4150

Bottom Recorder Depth (Outside) 5368 ft. Recorder Number 3351 Cap. 4000

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

Drilling Contractor D.R. Lauck (#1) Drill Collar Length 310 I. D. 2 1/4 in.

Mud Type Premix-Drispac Viscosity 46 Weight Pipe Length - I. D. - in.

Weight 9.5 Water Loss 18.0 cc. Drill Pipe Length 4976 I. D. 3.8 in.

Chlorides 28,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.

Jars: Make - Serial Number - Anchor Length 65 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: Weak blow increased to strong blow on first flow period. Strong blow throughout second flow period. Gas to suraces in 10 minutes on second flow. See attached sheet.

Recovered 510 ft. of gas cut mud.

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks:

Time Set Packer(s) 7:30 ~~A.M.~~ P.M. Time Started Off Bottom 11:50 ~~A.M.~~ P.M. Maximum Temperature 134

Initial Hydrostatic Pressure (A) 2727 P.S.I.

Initial Flow Period Minutes 30 (B) 178 P.S.I. to (C) 239 P.S.I.

Initial Closed In Period Minutes 60 (D) 1503 P.S.I.

Final Flow Period Minutes 90 (E) 252 P.S.I. to (F) 219 P.S.I.

Final Closed In Period Minutes 90 (G) 1400 P.S.I.

Final Hydrostatic Pressure (H) 2710 P.S.I.

GAS FLOW REPORT

Date 2/29/80 Ticket 5630 Company Pickrell Drilling Company
 Well Name and No. McCaustland "A" #2 Dst No. 2 Interval Tested 5310-5375
 County Clark State Kansas Sec. 10 Twp. 30S Rg. 22W

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						

Gas to surface in ten minutes. SECOND FLOW

15 min.	8" of water 1" orifice	73,100 CFPD
20 min.	6" of water 1" orifice	63,300 CFPD
30 min.	4" of water 1" orifice	51,600 CFPD
40 min.)		
50 min.)		
60 min.)	STABALIZED THROUGHOUT REST OF OPENING.	
70 min.)		
80 min.)		
90 min.)		

GAS BOTTLE

Serial No. _____ Date Bottle Filled _____ Date to be Invoiced 2/29/80

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 Pickrell Drilling Company

Authorized by Larry J. Richardson

WESTERN TESTING CO., INC.

Pressure Data

Date 2-29-80
 Recorder No. 2607 Capacity 4150 Test Ticket No. 5630
 Clock No. - Elevation 2442 Ground Level Location 5365 Ft.
 Well Temperature 134 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2727</u>	P.S.I.	<u>7:20P.</u>	<u>M</u>
B First Initial Flow Pressure	<u>178</u>	P.S.I.	<u>30</u>	<u>30</u>
C First Final Flow Pressure	<u>239</u>	P.S.I.	<u>60</u>	<u>60</u>
D Initial Closed-in Pressure	<u>1503</u>	P.S.I.	<u>90</u>	<u>90</u>
E Second Initial Flow Pressure	<u>252</u>	P.S.I.	<u>90</u>	<u>87</u>
F Second Final Flow Pressure	<u>219</u>	P.S.I.		
G Final Closed-in Pressure	<u>1400</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2710</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>18</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>29</u> Inc. of <u>3</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>178</u>	<u>0</u>	<u>239</u>	<u>0</u>	<u>252</u>	<u>0</u>	<u>219</u>
P 2 <u>5</u>	<u>180</u>	<u>3</u>	<u>483</u>	<u>5</u>	<u>195</u>	<u>3</u>	<u>294</u>
P 3 <u>10</u>	<u>229</u>	<u>6</u>	<u>664</u>	<u>10</u>	<u>205</u>	<u>6</u>	<u>395</u>
P 4 <u>15</u>	<u>225</u>	<u>9</u>	<u>787</u>	<u>15</u>	<u>205</u>	<u>9</u>	<u>490</u>
P 5 <u>20</u>	<u>224</u>	<u>12</u>	<u>870</u>	<u>20</u>	<u>205</u>	<u>12</u>	<u>573</u>
P 6 <u>25</u>	<u>237</u>	<u>15</u>	<u>944</u>	<u>25</u>	<u>205</u>	<u>15</u>	<u>648</u>
P 7 <u>30</u>	<u>239</u>	<u>18</u>	<u>1008</u>	<u>30</u>	<u>206</u>	<u>18</u>	<u>716</u>
P 8		<u>21</u>	<u>1065</u>	<u>35</u>	<u>205</u>	<u>21</u>	<u>777</u>
P 9		<u>24</u>	<u>1118</u>	<u>40</u>	<u>205</u>	<u>24</u>	<u>831</u>
P10		<u>27</u>	<u>1167</u>	<u>45</u>	<u>205</u>	<u>27</u>	<u>886</u>
P11		<u>30</u>	<u>1215</u>	<u>50</u>	<u>206</u>	<u>30</u>	<u>929</u>
P12		<u>33</u>	<u>1257</u>	<u>55</u>	<u>206</u>	<u>33</u>	<u>973</u>
P13		<u>36</u>	<u>1293</u>	<u>60</u>	<u>207</u>	<u>36</u>	<u>1010</u>
P14		<u>39</u>	<u>1326</u>	<u>65</u>	<u>210</u>	<u>39</u>	<u>1050</u>
P15		<u>42</u>	<u>1359</u>	<u>70</u>	<u>212</u>	<u>42</u>	<u>1084</u>
P16		<u>45</u>	<u>1393</u>	<u>75</u>	<u>214</u>	<u>45</u>	<u>1119</u>
P17		<u>48</u>	<u>1422</u>	<u>80</u>	<u>216</u>	<u>48</u>	<u>1146</u>
P18		<u>51</u>	<u>1445</u>	<u>85</u>	<u>218</u>	<u>51</u>	<u>1176</u>
P19		<u>54</u>	<u>1473</u>	<u>90</u>	<u>219</u>	<u>54</u>	<u>1202</u>
P20		<u>57</u>	<u>1492</u>			<u>57</u>	<u>1224</u>
		<u>60</u>	<u>1503</u>			<u>60</u>	<u>1247</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 2-29-80

Recorder No. 2607 Capacity 4150 Test Ticker No. 5630

Clock No. - Elevation 2442 Ground Level Location 5365 Ft

Well Temperature 134 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2727</u> P.S.I.	<u>7:20P.</u> M	
B First Initial Flow Pressure	<u>178</u> P.S.I.	<u>30</u> Mins	<u>30</u> Mins.
C First Final Flow Pressure	<u>239</u> P.S.I.	<u>60</u> Mins	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1503</u> P.S.I.	<u>90</u> Mins	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>252</u> P.S.I.	<u>90</u> Mins	<u>87</u> Mins.
F Second Final Flow Pressure	<u>219</u> P.S.I.		
G Final Closed-in Pressure	<u>1400</u> P.S.I.		
H Final Hydrostatic Mud	<u>2710</u> P.S.I.		

PRESSURE BREAKDOWN

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

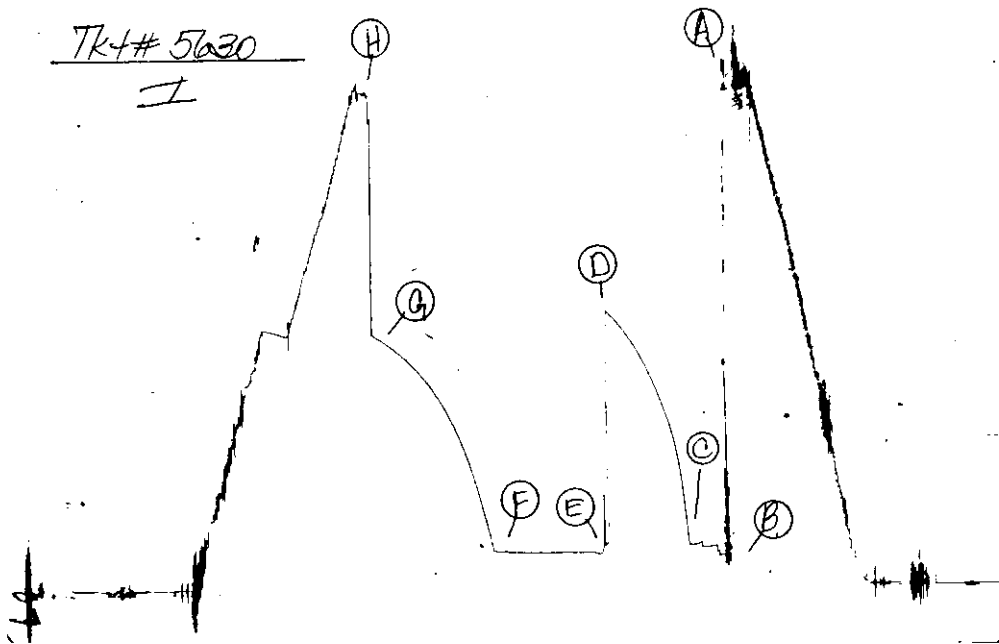
Initial Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 18 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 29 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						63	1268
P 2						66	1288
P 3						69	1307
P 4						72	1326
P 5						75	1343
P 6						78	1357
P 7						81	1374
P 8						84	1387
P 9						87	1400
P10							
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

Tk4# 5630
I





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

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO 5631

Elevation 2442 G.L. Formation Miss Eff. Pay - Ft.

COMPANY NAME Pickrell District Pratt Date 3/2/80 Customer Order No. -

ADDRESS Litwin Bldg Suite 205 110 North Market Wichita, Ks 67202

LEASE AND WELL NO. McCaustline #2-A COUNTY Clark STATE Ks Sec. 10 Twp. 30 Rge. 22

Mail Invoice To Same Co. Name - Address - No. Copies Requested 5

Mail Charts To Same Address - No. Copies Requested 5

Formation Test No. 3 Interval Tested from 5470 ft. to 5415 ft. Total Depth 5415 ft.

Packer Depth 5465 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 5470 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 5405 ft. Recorder Number 2607 Cap. 4150

Bottom Recorder Depth (Outside) 5408 ft. Recorder Number 3351 Cap. 4000

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

Drilling Contractor D.R. Lauck Rig #1 Drill Collar Length 310 I. D. 2 1/2 in.

Mud Type Premix-Prispac Viscosity 50 Weight Pipe Length - I. D. - in.

Weight 9.4 Water Loss 19.2 cc. Drill Pipe Length 5039 I. D. 3.8 in.

Chlorides 42,000 P.P.M. Test Tool Length 21 ft. Tool Size 5200 in.

Jars: Make - Serial Number - Anchor Length 45 ft. Size 5200 in.

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

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

Blow: Strong blow throughout flow periods

Recovered 220 ft. of Muddy Water

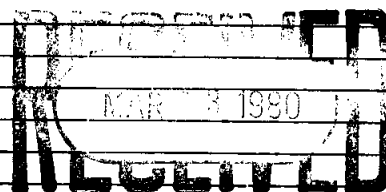
Recovered 1240 ft. of Salt Water (69,000 ppm)

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks: Read outside recorder #3351



Time Set Packer(s) 10:20 AM. Time Started Off Bottom 2:50 AM. Maximum Temperature 135°

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
Initial Hydrostatic Pressure	<u>2686</u> P.S.I.	<u>50</u> P.S.I.	<u>301</u> P.S.I.	<u>1674</u> P.S.I.	<u>341</u> P.S.I.	<u>631</u> P.S.I.	<u>1674</u> P.S.I.	<u>2666</u> P.S.I.
Initial Flow Period	<u>30</u> Minutes	<u>50</u> Minutes	<u>301</u> P.S.I.	<u>1674</u> P.S.I.	<u>341</u> P.S.I.	<u>631</u> P.S.I.	<u>1674</u> P.S.I.	<u>2666</u> P.S.I.
Initial Closed In Period	<u>60</u> Minutes	<u>50</u> Minutes	<u>301</u> P.S.I.	<u>1674</u> P.S.I.	<u>341</u> P.S.I.	<u>631</u> P.S.I.	<u>1674</u> P.S.I.	<u>2666</u> P.S.I.
Final Flow Period	<u>90</u> Minutes	<u>50</u> Minutes	<u>301</u> P.S.I.	<u>1674</u> P.S.I.	<u>341</u> P.S.I.	<u>631</u> P.S.I.	<u>1674</u> P.S.I.	<u>2666</u> P.S.I.
Final Closed In Period	<u>90</u> Minutes	<u>50</u> Minutes	<u>301</u> P.S.I.	<u>1674</u> P.S.I.	<u>341</u> P.S.I.	<u>631</u> P.S.I.	<u>1674</u> P.S.I.	<u>2666</u> P.S.I.
Final Hydrostatic Pressure	<u>2686</u> P.S.I.	<u>50</u> P.S.I.	<u>301</u> P.S.I.	<u>1674</u> P.S.I.	<u>341</u> P.S.I.	<u>631</u> P.S.I.	<u>1674</u> P.S.I.	<u>2666</u> P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages 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, of 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 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Samuel P. Kuchak
Signature of Customer or his authorized representative

Western Representative Jim Wondra Thank You

FIELD INVOICE

Open Hole Test	\$ <u>1600.00</u>
Misrun	\$ <u>-</u>
Straddle Test	\$ <u>-</u>
Jars	\$ <u>-</u>
Selective Zone	\$ <u>-</u>
Safety Joint	\$ <u>-</u>
Standby	\$ <u>-</u>
Evaluation	\$ <u>-</u>
Extra Packer	\$ <u>-</u>
Circ. Sub.	\$ <u>-</u>
Mileage	\$ <u>-</u>
Fluid Sampler	\$ <u>-</u>
Extra Charts	\$ <u>-</u>
TOTAL	\$ <u>600.00</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 3-2-80 Test Ticket No. 5631
 Recorder No. 3351 Capacity 4000 Location 3405 Ft.
 Clock No. - Elevation 2429 ft. Well Temperature 138 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2708</u> 2688 P.S.I.	<u>10:20A</u> M	
B First Initial Flow Pressure	<u>68</u> P.S.I.	<u>30</u> Mins.	<u>35</u> Mins.
C First Final Flow Pressure	<u>298</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1694</u> P.S.I.	<u>90</u> Mins.	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>345</u> P.S.I.	<u>90</u> Mins.	<u>96</u> Mins.
F Second Final Flow Pressure	<u>626</u> P.S.I.		
G Final Closed-in Pressure	<u>1665</u> P.S.I.		
H Final Hydrostatic Mud	<u>2696</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 7 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: 18 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 30 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>68</u>	0	<u>298</u>	0	<u>345</u>	0	<u>626</u>
P 2 5	<u>137</u>	3	<u>1419</u>	5	<u>339</u>	3	<u>1377</u>
P 3 10	<u>179</u>	6	<u>1514</u>	10	<u>361</u>	6	<u>1480</u>
P 4 15	<u>207</u>	9	<u>1557</u>	15	<u>382</u>	9	<u>1513</u>
P 5 20	<u>233</u>	12	<u>1585</u>	20	<u>400</u>	12	<u>1536</u>
P 6 25	<u>256</u>	15	<u>1605</u>	25	<u>422</u>	15	<u>1552</u>
P 7 30	<u>279</u>	18	<u>1619</u>	30	<u>440</u>	18	<u>1563</u>
P 8 35	<u>298</u>	21	<u>1631</u>	35	<u>450</u>	21	<u>1575</u>
P 9 40		24	<u>1641</u>	40	<u>474</u>	24	<u>1585</u>
P10 45		27	<u>1651</u>	45	<u>491</u>	27	<u>1593</u>
P11 50		30	<u>1657</u>	50	<u>508</u>	30	<u>1601</u>
P12 55		33	<u>1664</u>	55	<u>524</u>	33	<u>1607</u>
P13 60		36	<u>1669</u>	60	<u>539</u>	36	<u>1613</u>
P14		39	<u>1674</u>	65	<u>554</u>	39	<u>1617</u>
P15		42	<u>1678</u>	70	<u>568</u>	42	<u>1622</u>
P16		45	<u>1681</u>	75	<u>582</u>	45	<u>1626</u>
P17		48	<u>1685</u>	80	<u>596</u>	48	<u>1631</u>
P18		51	<u>1688</u>	85	<u>609</u>	51	<u>1634</u>
P19		54	<u>1690</u> <u>1691</u>	90	<u>626</u>	54	<u>1637</u>
P20		57	<u>1693</u>			57	<u>1640</u>
		60	<u>1694</u>			60	<u>1642</u>

WESTERN TESTING CO., INC.

Pressure Data

Date _____

Test Ticket No. 563

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

First Flow Pressure Breakdown: _____ Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: _____ Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: _____ Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: _____ Inc. of <u>3</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 _____	_____	63 _____	_____	_____	_____	63 _____	1644
P 2 _____	_____	66 _____	_____	_____	_____	66 _____	1646
P 3 _____	_____	69 _____	_____	_____	_____	69 _____	1648
P 4 _____	_____	72 _____	_____	_____	_____	72 _____	1651
P 5 _____	_____	75 _____	_____	_____	_____	75 _____	1654
P 6 _____	_____	78 _____	_____	_____	_____	78 _____	1657
P 7 _____	_____	81 _____	_____	_____	_____	81 _____	1660
P 8 _____	_____	84 _____	_____	_____	_____	84 _____	1661
P 9 _____	_____	87 _____	_____	_____	_____	87 _____	1662
P10 _____	_____	90 _____	_____	_____	_____	90 _____	1663
P11 _____	_____	93 _____	_____	_____	_____	93 _____	1664
P12 _____	_____	96 _____	_____	_____	_____	96 _____	1665
P13 _____	_____	99 _____	_____	_____	_____	99 _____	
P14 _____	_____	102 _____	_____	_____	_____	102 _____	
P15 _____	_____	105 _____	_____	_____	_____	105 _____	
P16 _____	_____	108 _____	_____	_____	_____	108 _____	
P17 _____	_____	111 _____	_____	_____	_____	111 _____	
P18 _____	_____	114 _____	_____	_____	_____	114 _____	
P19 _____	_____	117 _____	_____	_____	_____	117 _____	
P20 _____	_____	120 _____	_____	_____	_____	120 _____	

Company Pickrell Drilling Company Lease & Well No. McCaustland "A" #2
 Elevation 2442 Ground Level Formation Mississippi Effective Pay ----- Ft. Ticket No. 5631
 Date 3/2/80 Sec. 10 Twp. 30S Range 22W County Clark State Kansas
 Test Approved by Larry J. Richardson Western Representative Jim Wondra
 Formation Test No. 3 Interval Tested from 5470 ft. to 5415 ft. Total Depth 5415 ft.
 Packer Depth 5465 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 5470 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 5405 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 5408 ft. Recorder Number 3351 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor D. R. Lauck Drilling Rig #1 Drill Collar Length 310 I. D. 2 1/4 in.
 Mud Type premix-driscopac Viscosity 50 Weight Pipe Length - I. D. - in.
 Weight 9.4 Water Loss 19.2 cc. Drill Pipe Length 5039 I. D. 3.8 in.
 Chlorides 42,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 45 ft. Size 5 1/2 OD in.
 Did Well Flow? No 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 flow periods.

Recovered 220 ft. of muddy water
 Recovered 1240 ft. of salt water (chlorides 60,000 ppm)
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks: READ OUTSIDE RECORDER #13351

Time Set Packer(s) 10:20 ~~A.M.~~ P.M. Time Started Off Bottom 2:50 ~~A.M.~~ P.M. Maximum Temperature 135°
 Initial Hydrostatic Pressure (A) 2708 P.S.I.
 Initial Flow Period Minutes 35 (B) 68 P.S.I. to (C) 298 P.S.I.
 Initial Closed In Period Minutes 60 (D) 1694 P.S.I.
 Final Flow Period Minutes 90 (E) 345 P.S.I. to (F) 626 P.S.I.
 Final Closed In Period Minutes 96 (G) 1665 P.S.I.
 Final Hydrostatic Pressure (H) 2696 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 3/2/80 Recorder No. 3351 Capacity 4000 Test Ticket No. 5631
 Location 5405 Ft. Clock No. -- Elevation 2442 Ground Level Well Temperature 135 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2708 P.S.I.	Open Tool	10:20A M	
B First Initial Flow Pressure	68 P.S.I.	First Flow Pressure	30 Mins.	35 Mins.
C First Final Flow Pressure	298 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1694 P.S.I.	Second Flow Pressure	90 Mins.	90 Mins.
E Second Initial Flow Pressure	345 P.S.I.	Final Closed-in Pressure	90 Mins.	96 Mins.
F Second Final Flow Pressure	626 P.S.I.			
G Final Closed-in Pressure	1665 P.S.I.			
H Final Hydrostatic Mud	2696 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>7</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>18</u> Inc.		Breakdown: <u>32</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>68</u>	<u>0</u>	<u>298</u>	<u>0</u>	<u>345</u>	<u>0</u>	<u>626</u>
P 2 <u>5</u>	<u>137</u>	<u>3</u>	<u>1419</u>	<u>5</u>	<u>339</u>	<u>3</u>	<u>1377</u>
P 3 <u>10</u>	<u>179</u>	<u>6</u>	<u>1514</u>	<u>10</u>	<u>361</u>	<u>6</u>	<u>1480</u>
P 4 <u>15</u>	<u>207</u>	<u>9</u>	<u>1557</u>	<u>15</u>	<u>382</u>	<u>9</u>	<u>1513</u>
P 5 <u>20</u>	<u>233</u>	<u>12</u>	<u>1585</u>	<u>20</u>	<u>400</u>	<u>12</u>	<u>1536</u>
P 6 <u>25</u>	<u>256</u>	<u>15</u>	<u>1605</u>	<u>25</u>	<u>422</u>	<u>15</u>	<u>1552</u>
P 7 <u>30</u>	<u>279</u>	<u>18</u>	<u>1619</u>	<u>30</u>	<u>440</u>	<u>18</u>	<u>1563</u>
P 8 <u>35</u>	<u>298</u>	<u>21</u>	<u>1631</u>	<u>35</u>	<u>456</u>	<u>21</u>	<u>1575</u>
P 9		<u>24</u>	<u>1641</u>	<u>40</u>	<u>474</u>	<u>24</u>	<u>1585</u>
P10		<u>27</u>	<u>1651</u>	<u>45</u>	<u>491</u>	<u>27</u>	<u>1593</u>
P11		<u>30</u>	<u>1657</u>	<u>50</u>	<u>508</u>	<u>30</u>	<u>1601</u>
P12		<u>33</u>	<u>1664</u>	<u>55</u>	<u>524</u>	<u>33</u>	<u>1607</u>
P13		<u>36</u>	<u>1669</u>	<u>60</u>	<u>539</u>	<u>36</u>	<u>1613</u>
P14		<u>39</u>	<u>1674</u>	<u>65</u>	<u>554</u>	<u>39</u>	<u>1617</u>
P15		<u>42</u>	<u>1678</u>	<u>70</u>	<u>568</u>	<u>42</u>	<u>1622</u>
P16		<u>45</u>	<u>1681</u>	<u>75</u>	<u>582</u>	<u>45</u>	<u>1626</u>
P17		<u>48</u>	<u>1685</u>	<u>80</u>	<u>596</u>	<u>48</u>	<u>1631</u>
P18		<u>51</u>	<u>1688</u>	<u>85</u>	<u>609</u>	<u>51</u>	<u>1634</u>
P19		<u>54</u>	<u>1691</u>	<u>90</u>	<u>626</u>	<u>54</u>	<u>1637</u>
P20		<u>57</u>	<u>1693</u>			<u>57</u>	<u>1640</u>
WTC - 4		<u>60</u>	<u>1694</u>			<u>60</u>	<u>1642</u>

WESTERN TESTING CO., INC. Pressure Data

Date 3/2/80 Test Ticket No. 5631
 Recorder No. 3351 Capacity 4000 Location 5405 Ft.
 Block No. -- Elevation 2442 Ground Level Well Temperature 135 °F
 Point Pressure Time Given Time Computed
 Initial Hydrostatic Mud 2708 P.S.I. Open Tool 10:20A M
 First Initial Flow Pressure 68 P.S.I. First Flow Pressure 30 Mins 35 Mins.
 First Final Flow Pressure 298 P.S.I. Initial Closed-in Pressure 60 Mins 60 Mins.
 Initial Closed-in Pressure 1694 P.S.I. Second Flow Pressure 90 Mins 90 Mins.
 Second Initial Flow Pressure 345 P.S.I. Final Closed-in Pressure 90 Mins 96 Mins.
 Second Final Flow Pressure 626 P.S.I.
 Final Closed-in Pressure 1665 P.S.I.
 Final Hydrostatic Mud 2696 P.S.I.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>7</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>18</u> Inc.		Breakdown: <u>32</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	Press.	Point	Press.	Point	Press.	Point	Press.
Minutes		Minutes		Minutes		Minutes	
1						63	1644
2						66	1646
3						69	1648
4						72	1651
5						75	1654
6						78	1657
7						81	1660
8						84	1661
9						87	1662
10						90	1663
11						93	1664
12						96	1665
13							
14							
15							
16							
17							
18							
19							
20							

(A)

(A)

TK# 5631

(D)

(G)

(D)

(F)

(E)

(C)

(B)