



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 7955

P. O. BOX 1599 WICHITA, KANSAS 67201
PHONE (316) 262-5861

Elevation 2552 G.L. Formation Eff. Pay Ft.

District 14 Wakeeney Date 3-26-85 Customer Order No.

COMPANY NAME Pickrell Drilling Company

ADDRESS 110 N. Market Suite 205 Wichita, Ks.

LEASE AND WELL NO. Carter COUNTY Ness STATE Ks. Sec. 3 Twp. 16S Rge. 25W

Mail Invoice To # 3 "F" Carter Co. Name Address No. Copies Requested 5

Mail Charts To same Address No. Copies Requested 5

Formation Test No. 1 Interval Tested From 4388 ft. to 4440 ft. Total Depth 4440 ft.

Packer Depth 4383 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 4388 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4394 ft. Recorder Number 6234 Cap. 4500

Bottom Recorder Depth (Outside) 4397 ft. Recorder Number 4376 Cap. 4000

Below Saddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Pickrell #10 Drill Collar Length 180" I. D. 2.5 in.

Mud Type Chem Viscosity 49 Weight Pipe Length I. D. 3.6 in.

Weight 9.3 Water Loss 10.8 cc. Drill Pipe Length 4188 I. D. 3.6 in.

Chlorides 12,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make Serial Number Anchor Length 52 ft. Size 5 1/2 in.

Did Well Flow? 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 x 1 1/4 in.

Blow I.F.P. Weak Dead IN 10 min

F.I.P. NO BLOW

Recovered 10 ft. of mud with oil spots IN tool

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides P.P.M. Sample Jars used 1 Remarks: Flush tool F.I.P.

Time On Location 5:00 A.M. P.M. Time Pick Up Tool 6:00 A.M. P.M. Time Off Location 1:00 A.M. P.M.

Time Set Packer(s) 8:10 A.M. P.M. Time Started Off Bottom 10:10 A.M. P.M. Maximum Temperature 118

Initial Hydrostatic Pressure (A) 2197 P.S.I.

Initial Flow Period Minutes 30 (B) 34 P.S.I. to (C) 22 P.S.I.

Initial Closed In Period Minutes 30 (D) 262 P.S.I.

Final Flow Period Minutes 30 (E) 22 P.S.I. to (F) 34 P.S.I.

Final Closed In Period APR 01 1985 Minutes 30 (G) 148 P.S.I.

Final Hydrostatic Pressure (H) 2152 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 Bill Klaver Signature of Customer or his authorized representative

Western Representative Kent Kleibe 1135

FIELD INVOICE table with columns for item and amount. Items include Open Hole Test, Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, Telecopier, and TOTAL.

WESTERN TESTING CO., INC.

Pressure Data

Date 3-26-85 Test Ticket No. 7952  
 Recorder No. 6234 Capacity 4500 Location \_\_\_\_\_ Ft.  
 Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature \_\_\_\_\_ °F

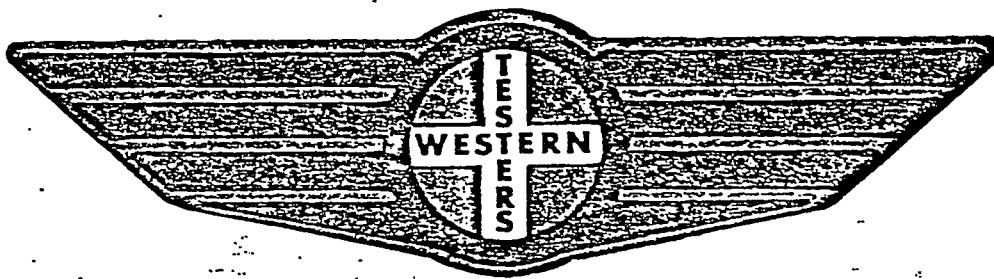
Point	Pressure	Open Tool	Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>2230</u> P.S.I.			M
B First Initial Flow Pressure	<u>31</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	
C First Final Flow Pressure	<u>31</u> P.S.I.	Initial Closed-in Pressure	<u>1</u> Mins.	
D Initial Closed-in Pressure	<u>248</u> P.S.I.	Second Flow Pressure	<u>1</u> Mins.	
E Second Initial Flow Pressure	<u>43</u> P.S.I.	Final Closed-in Pressure		
F Second Final Flow Pressure	<u>42</u> P.S.I.			
G Final Closed-in Pressure	<u>140</u> P.S.I.			
H Final Hydrostatic Mud	<u>2123</u> P.S.I.			

Flush tool

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>7</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>7</u> Inc.		Breakdown: <u>11</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 0	<u>31</u>	0	<u>31</u>	0	<u>43</u>	0	<u>42</u>
P 2 5		3	<u>32</u>	5	<u>43</u>	3	<u>42</u>
P 3 10		6	<u>33</u>	10	<u>52*</u>	6	<u>43</u>
P 4 15		9	<u>34</u>	15	<u>50</u>	9	<u>45</u>
P 5 20		12	<u>41</u>	20	<u>46</u>	12	<u>50</u>
P 6 25		15	<u>50</u>	25	<u>42</u>	15	<u>56</u>
P 7 30	<u>31</u>	18	<u>65</u>	30	<u>42</u>	18	<u>66</u>
P 8 35		21	<u>83</u>	35		21	<u>80</u>
P 9 40		24	<u>110</u>	40		24	<u>95</u>
P10 45		27	<u>148</u>	45		27	<u>112</u>
P11 50		30	<u>198</u>	50		30	<u>140</u>
P12 55		33	<u>248</u>	55		33	
P13 60		36		60		36	
P14 65		39		65		39	
P15 70		42		70		42	
P16 75		45		75		45	
P17 80		48		80		48	
P18 85		51		85		51	
P19 90		54		90		54	
P20 95		57		95		57	
100		60		100		60	

# FORMATION TEST REPORT



Home Office:

P.O. Box 1599

Wichita, Kansas 67201

Phone (316) 262-5861

Company PICKRELL DRILLING COMPANY Lease & Well No. #3 "F" CARTER Sec. 3 Twp. 16S Rge. 25W Test No. 1 Date 3/26/85

WESTERN TESTING COMPANY INC.  
SUBSURFACE PRESSURE SURVEY

DATE: 3/26/85 TICKET #7955  
 CUSTOMER: PICKRELL DRILLING COMPANY LEASE: CARTER 'F'  
 WELL: 3 TEST: 1 GEOLOGIST: KLAVER  
 ELEVATION (KB): 2557 FORMATION:  
 SECTION: 3 TOWNSHIP: 16S  
 RANGE: 25W COUNTY: NESS STATE: KS  
 GAUGE SN #6234 RANGE: 4500 CLOCK: 12

INTERVAL TEST FROM: 4388 FT TO: 4440 FT TOTAL DEPTH: 4440 FT  
 DEPTH OF SELECTIVE ZONE: FT  
 PACKER DEPTH: 4383 FT SIZE: 6 3/4 IN PACKER DEPTH: 4388 FT SIZE: 6 3/4 IN  
 PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: PICKRELL  
 MUD TYPE: CHEMICAL VISCOSITY: 49  
 WEIGHT: 9.3 WATER LOSS (CC): 10.8  
 CHLORIDES (P.P.M.): 12000  
 JARS - MAKE: SERIAL NUMBER:  
 DID WELL FLOW? REVERSED OUT?

DRILL COLLAR LENGTH: 180 FT I.D.: 2.5 IN  
 WEIGHT PIPE LENGTH: FT I.D.: IN  
 DRILL PIPE LENGTH: 4188 FT I.D.: 3.6 IN  
 TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 OD IN  
 ANCHOR LENGTH: 52 FT SIZE: 5 1/2 OD IN  
 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 XH IN

BLOW: INITIAL FLOW PERIOD WEAK BLOW DEAD IN 10 MINUTES.  
 FINAL FLOW PERIOD NO BLOW.

RECOVERED: 10	FT	OF:	MUD W/OIL SPOTS IN TOOL
RECOVERED:	FT	OF:	
RECOVERED:	FT	OF:	
RECOVERED:	FT	OF:	
RECOVERED:	FT	OF:	
RECOVERED:	FT	OF:	
RECOVERED:	FT	OF:	
RECOVERED:	FT	OF:	
RECOVERED:	FT	OF:	

REMARKS: FLUSH TOOL IN FINAL FLOW PERIOD

TIME SET PACKER(S): 8:10 PM

TIME STARTED OFF BOTTOM: 10:10 PM

WELL TEMPERATURE: 118 °F

INITIAL HYDROSTATIC PRESSURE:

INITIAL FLOW PERIOD MIN: 30

INITIAL CLOSED IN PERIOD MIN: 33

FINAL FLOW PERIOD MIN: 30

FINAL CLOSED IN PERIOD MIN: 30

FINAL HYDROSTATIC PRESSURE

(A) 2230 PSI

(B) 31 PSI TO (C) 31 PSI

(D) 248 PSI

(E) 43 PSI TO (F) 42 PSI

(G) 140 PSI

(H) 2123 PSI

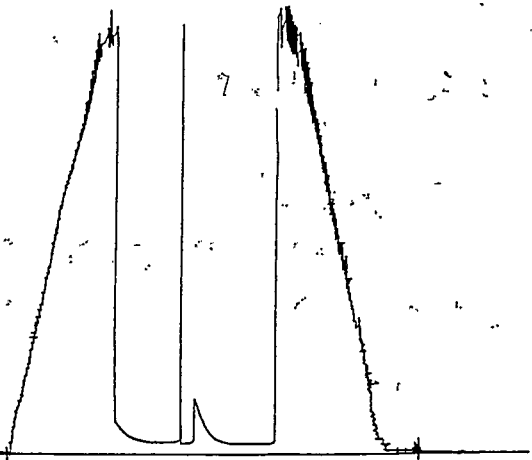


4376

DST1

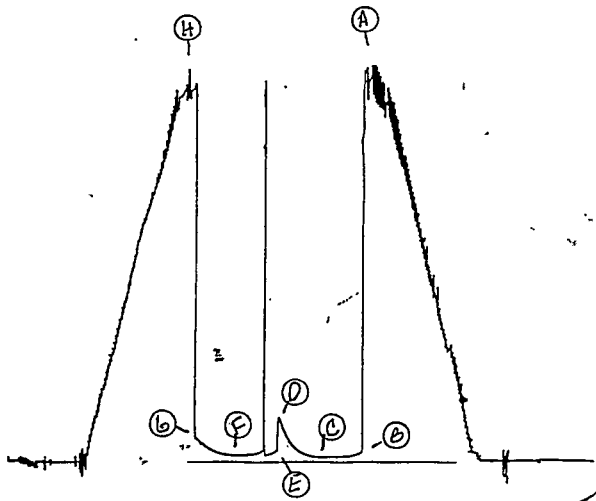
IKT # 7955

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6234  
DST1

TKT # 7955  
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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 7956

P. O. BOX 1599 WICHITA, KANSAS 67201
PHONE (316) 262-5861

Elevation 2552 G.L. Formation Miss. Eff. Pay Ft.

14 District Wakeeney Date 3-27-85 Customer Order No.

COMPANY NAME Pickrell Drilling Company

ADDRESS 110 n market Suite 205 Wichita Ks.

LEASE AND WELL NO. Carter #3 COUNTY Ness STATE Ks. Sec. 3 Twp. 16 S Rge. 25 W

Mail Invoice To #3 "F" Carter same No. Copies Requested 5

Co. Name Address Address No. Copies Requested 5

Mail Charts To same Address No. Copies Requested 5

Formation Test No. 2 Interval Tested From 4446 ft. to 4503 ft. Total Depth 4503 ft.

Packer Depth 4441 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 4446 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4452 ft. Recorder Number Q2604 Cap. 4150

Bottom Recorder Depth (Outside) 4455 ft. Recorder Number 1566 Cap. 4300

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Pickrell #10 Drill Collar Length 180 I. D. 2.5 in.

Mud Type Chem Viscosity 50 Weight Pipe Length I. D. in.

Weight 9.4 Water Loss 11.6 cc. Drill Pipe Length 4246 I. D. 3.6 in.

Chlorides 16,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make Serial Number Anchor Length 57 ft. Size 5 1/2 in.

Did Well Flow? Reversed Out Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

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

Blow: F.F.P. weak dead IN 20 min

F.F.P. No Blow

Recovered 5 ft. of mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides P.P.M. Sample Jars used 1 Remarks: Flush tool F.F.P.

Time On Location 12:30 A.M. Time Pick Up Tool 1:00 P.M. Time Off Location 7:00 A.M.

Time Set Packer(s) 2:35 P.M. Time Started Off Bottom 4:35 P.M. Maximum Temperature 120 degrees

Initial Hydrostatic Pressure (A) 2200 P.S.I.

Initial Flow Period Minutes 30 (B) 31 P.S.I. to (C) 21 P.S.I.

Initial Closed In Period Minutes 30 (D) 31 P.S.I.

Final Flow Period Minutes 30 (E) 31 P.S.I. to (F) 21 P.S.I.

Final Closed In Period Minutes 30 (G) 31 P.S.I.

Final Hydrostatic Pressure (H) 2168 P.S.I.

COMPANY TERMS

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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 Bill Klauer Signature of Customer or his authorized representative

Western Representative K. R. R. 1135

FIELD INVOICE

Table with 2 columns: Item, Amount. Items include Open Hole Test, Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, Telecopier, TOTAL.

WESTERN TESTING CO., INC.

Pressure Data

Date 3-27-85

Test Ticket No. 7956

Recorder No. 1566

Capacity 4300

Location \_\_\_\_\_ Ft.

Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_

Well Temperature \_\_\_\_\_ °F

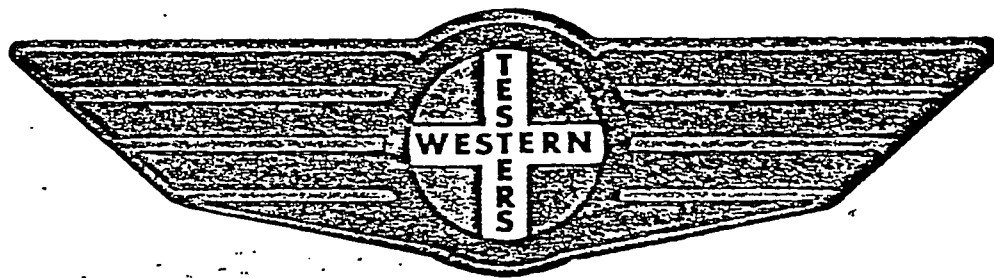
Point	Pressure	P.S.I.	Open Tool	Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>225.4</u>	P.S.I.	_____	_____	_____
B. First Initial Flow Pressure	<u>45</u>	P.S.I.	First Flow Pressure	_____ Mins.	_____ Mins.
C. First Final Flow Pressure	<u>45</u>	P.S.I.	Initial Closed-in Pressure	_____ Mins.	_____ Mins.
D. Initial Closed-in Pressure	<u>45</u>	P.S.I.	Second Flow Pressure	_____ Mins.	_____ Mins.
E. Second Initial Flow Pressure	<u>44</u>	P.S.I.	Final Closed-in Pressure	_____ Mins.	_____ Mins.
F. Second Final Flow Pressure	<u>47</u>	P.S.I.			
G. Final Closed-in Pressure	<u>52</u>	P.S.I.			
H. Final Hydrostatic Mud	<u>219.3</u>	P.S.I.			

x Flush

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ 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 0	<u>45</u>	0	<u>45</u>	0	<u>44</u>	0	<u>47</u>
P 2 5		3	<u>45</u>	5	<u>44</u>	3	
P 3 10		6	<u>44</u>	10	<u>56*</u>	6	
P 4 15		9	<u>43</u>	15	<u>51</u>	9	
P 5 20		12	<u>42</u>	20	<u>50</u>	12	
P 6 25		15	<u>41</u>	25	<u>48</u>	15	<u>47</u>
P 7 30	<u>45</u>	18	<u>41</u>	30	<u>47</u>	18	<u>48</u>
P 8 35		21	<u>41</u>	35		21	<u>49</u>
P 9 40		24	<u>43</u>	40		24	<u>50</u>
P 10 45		27	<u>44</u>	45		27	<u>51</u>
P 11 50		30	<u>45</u>	50		30	<u>52</u>
P 12 55		33		55		33	
P 13 60		36		60		36	
P 14 65		39		65		39	
P 15 70		42		70		42	
P 16 75		45		75		45	
P 17 80		48		80		48	
P 18 85		51		85		51	
P 19 90		54		90		54	
P 20 95		57		95		57	
100		60		100		60	

# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company PICKRELL DRILLING COMPANY Lease & Well No. #3 "F" CARTER Sec. 3 Twp. 16S Rge. 25W Test No. 2 Date 3/27/85

WESTERN TESTING COMPANY INC.  
SUBSURFACE PRESSURE SURVEY

DATE: 3/27/85  
 CUSTOMER: PICKRELL DRILLING COMPANY  
 WELL: 3 TEST: 2  
 ELEVATION (KB): 2557 FORMATION: MISSISSIPPI  
 SECTION: 3 TOWNSHIP: 16S  
 RANGE: 25W COUNTY: NESS STATE: KS  
 GAUGE SN #1566 RANGE: 4300 CLOCK: 12

INTERVAL TEST FROM: 4446 FT TO: 4503 FT TOTAL DEPTH: 4503 FT  
 DEPTH OF SELECTIVE ZONE: FT  
 PACKER DEPTH: 4441 FT SIZE: 6 3/4 IN PACKER DEPTH: 4446 FT SIZE: 6 3/4 IN  
 PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: PICKRELL  
 MUD TYPE: CHEMICAL VISCOSITY: 50  
 WEIGHT: 9.4 WATER LOSS (CC): 11.6  
 CHLORIDES (P.P.M.): 16000  
 JARS - MAKE: SERIAL NUMBER:  
 DID WELL FLOW? REVERSED OUT?  
 DRILL COLLAR LENGTH: 180 FT I.D.: 2.5 IN  
 WEIGHT PIPE LENGTH: FT I.D.: IN  
 DRILL PIPE LENGTH: 4246 FT I.D.: 3.6 IN  
 TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 OD IN  
 ANCHOR LENGTH: 57 FT SIZE: 5 1/2 OD IN  
 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 XH IN

BLOW: INITIAL FLOW PERIOD WEAK BLOW DEAD IN 20 MINUTES.  
 FINAL FLOW PERIOD NO BLOW.

RECOVERED: 5 FT OF: MUD  
 RECOVERED: FT OF:  
 RECOVERED: FT OF:  
 RECOVERED: FT OF:  
 RECOVERED: FT OF:  
 RECOVERED: FT OF:  
 RECOVERED: FT OF:  
 RECOVERED: FT OF:  
 RECOVERED: FT OF:

REMARKS: FLUSH TOOL IN FINAL FLOW PERIOD  
 READ OUTSIDE CHART #1566

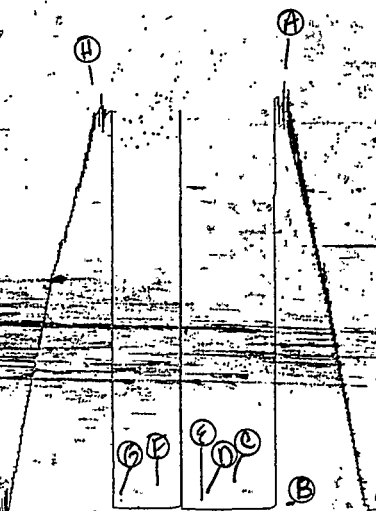
TIME SET PACKER(S): 2:35 PM TIME STARTED OFF BOTTOM: 4:35 PM  
 WELL TEMPERATURE: 120 °F  
 INITIAL HYDROSTATIC PRESSURE: (A) 2254 PSI  
 INITIAL FLOW PERIOD MIN: 30 (B) 45 PSI TO (C) 45 PSI  
 INITIAL CLOSED IN PERIOD MIN: 30 (D) 45 PSI  
 FINAL FLOW PERIOD MIN: 30 (E) 44 PSI TO (F) 47 PSI  
 FINAL CLOSED IN PERIOD MIN: 30 (G) 52 PSI  
 FINAL HYDROSTATIC PRESSURE (H) 2193 PSI



1566  
DST 2

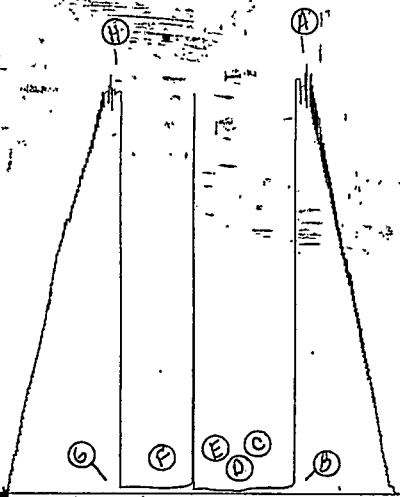
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KT # 7956  
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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO 7957

OK

P. O. BOX 1599 WICHITA, KANSAS 67201
PHONE (316) 262-5861

Elevation 2552 G.L. Formation Miss. Eff. Pay Ft.

District Wakeeney Date 3-28-85 Customer Order No.

COMPANY NAME Pickrell Drilling Company

ADDRESS 110 N. Market Suite 205 Wichita Ks.

LEASE AND WELL NO. Carter #3 COUNTY Ness STATE Ks. Sec. 3 Twp. 16 S Rge. 25 W

Mail Invoice To #3 "F" Carter Co. Name Address No. Copies Requested 5

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 3 Interval Tested From 4504 ft. to 4515 ft. Total Depth 4515 ft.

Packer Depth 4499 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 4504 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4508 ft. Recorder Number 2604 Cap. 4150
Bottom Recorder Depth (Outside) 4511 ft. Recorder Number 1566 Cap. 4300
Below Straddle Recorder Depth ft. Recorder Number Cap.

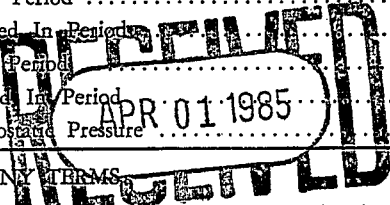
Drilling Contractor Pickrell #10 Drill Collar Length 180 I. D. 2.5 in.
Mud Type Chem Viscosity 48 Weight Pipe Length I. D. in.
Weight 9.4 Water Loss 11.6 cc. Drill Pipe Length 4304 I. D. 3.6 in.
Chlorides 16,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
Jars: Make - Serial Number - Anchor Length 11 ft. Size 5 1/2 in.
Did Well Flow? - 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 x 1 1/2 in.

Blow I.F.P. Weak Building to 4" IN Bucket
F.F.P. 1" 1" 1" 5" 1" 1"

Recovered 70 ft. of G.I.P.
Recovered 70 ft. of C.G.O. 40 gra.
Recovered 40 ft. of M.C.O. 10% g. 30% m. 60% O. L
Recovered 60 ft. of M.C.O. 1" 60% m. 30% O.
Recovered 60 ft. of M.C.O. 15% 40% m. 45% O.
Chlorides P.P.M. Sample Jars used 4 Remarks: 230 total

Time On Location 1:00 A.M. Time Pick Up Tool 1:30 P.M. Time Off Location 10:00 A.M.
Time Set Packer(s) 2:45 P.M. Time Started Off Bottom 7:15 P.M. Maximum Temperature 120°

Initial Hydrostatic Pressure (A) 2232 P.S.I.
Initial Flow Period Minutes 30 (B) 31 P.S.I. to (C) 42 P.S.I.
Initial Closed In Period Minutes 60 (D) 826 P.S.I.
Final Flow Period Minutes 90 (E) 74 P.S.I. to (F) 106 P.S.I.
Final Closed In Period Minutes 90 (G) 784 P.S.I.
Final Hydrostatic Pressure (H) 2189 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 Bill Plauer
Signature of Customer or his authorized representative

Western Representative Rex Payne 1135

FIELD INVOICE table with items: Open Hole Test, Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, Telecopier, TOTAL

WESTERN TESTING CO., INC.

Pressure Data

Date 3-28-85

Test Ticket No. 7957

Recorder No. 2604

Capacity 4150

Location \_\_\_\_\_ Ft.

Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_

Well Temperature \_\_\_\_\_ °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>2242</u>	P.S.I.		
B. First Initial Flow Pressure	<u>39</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C. First Final Flow Pressure	<u>42</u>	P.S.I.	<u>60</u> Mins.	
D. Initial Closed-in Pressure	<u>815</u>	P.S.I.	<u>90</u> Mins.	
E. Second Initial Flow Pressure	<u>84</u>	P.S.I.	<u>90</u> Mins.	
F. Second Final Flow Pressure	<u>101</u>	P.S.I.		
G. Final Closed-in Pressure	<u>793</u>	P.S.I.		
H. Final Hydrostatic Mud	<u>2202</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: 22 Inc.  
of 3 mins. and a  
final inc. of 0 Min.

Second Flow Pressure  
Breakdown: 20 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.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>39</u>	0	<u>42</u>	0	<u>84</u>	0	<u>101</u>
P 2 5		3	<u>157</u>	5		3	<u>164</u>
P 3 10		6	<u>367</u>	10		6	<u>299</u>
P 4 15		9	<u>481</u>	15		9	<u>402</u>
P 5 20	<u>39</u>	12	<u>544</u>	20		12	<u>472</u>
P 6 25	<u>40</u>	15	<u>592</u>	25		15	<u>519</u>
P 7 30	<u>42</u>	18	<u>634</u>	30	<u>84</u>	18	<u>556</u>
P 8 35		21	<u>662</u>	35	<u>84</u>	21	<u>588</u>
P 9 40		24	<u>689</u>	40	<u>85</u>	24	<u>613</u>
P10 45		27	<u>707</u>	45	<u>87</u>	27	<u>636</u>
P11 50		30	<u>728</u>	50	<u>89</u>	30	<u>654</u>
P12 55		33	<u>742</u>	55	<u>92</u>	33	<u>673</u>
P13 60		36	<u>755</u>	60	<u>95</u>	36	<u>694</u>
P14 65		39	<u>765</u>	65	<u>95</u>	39	<u>709</u>
P15 70		42	<u>773</u>	70	<u>97</u>	42	<u>719</u>
P16 75		45	<u>781</u>	75	<u>98</u>	45	<u>728</u>
P17 80		48	<u>786</u>	80	<u>98</u>	48	<u>736</u>
P18 85		51	<u>792</u>	85	<u>99</u>	51	<u>742</u>
P19 90		54	<u>798</u>	90	<u>101</u>	54	<u>748</u>
P20 95		57	<u>804</u>	95	<u>101</u>	57	<u>752</u>
100		60	<u>809</u>	100		60	<u>756</u>
		<u>63</u>	<u>815</u>				

Cont

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

Test Ticket No. 7957

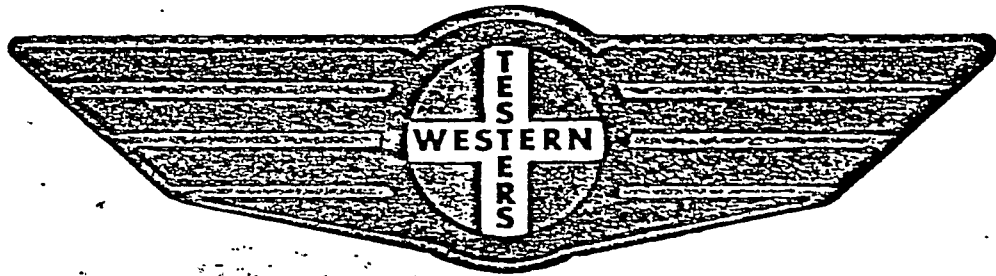
Date \_\_\_\_\_ Recorder No. \_\_\_\_\_ Capacity \_\_\_\_\_ Location \_\_\_\_\_ Ft. \_\_\_\_\_  
 Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature \_\_\_\_\_ °F

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 <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: _____ Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: _____ Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: _____ Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
	Press.	Point Minutes	Press.	Point Minutes
P 1 105		63		63 <u>760</u>
P 2 110		66		66 <u>764</u>
P 3 115		69		69 <u>768</u>
P 4 120		72		72 <u>773</u>
P 5 125		75		75 <u>778</u>
P 6 130		78		78 <u>783</u>
P 7 135		81		81 <u>786</u>
P 8 140		84		84 <u>789</u>
P 9 145		87		87 <u>791</u>
P10 150		90		90 <u>792</u>
P11 155		93		93 <u>793</u>
P12 160		96		96
P13 165		99		99
P14 170		102		102
P15 175		105		105
P16 180		108		108
P17 185		111		111
P18 190		114		114
P19 195		117		117
P20 200		120		120

# FORMATION TEST REPORT



Home Office:

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Wichita, Kansas 67201

Phone (316) 262-5861

Company PICKRELL DRILLING COMPANY Lease & Well No. #3 "F" CARTER Sec. 3 Twp. 16S Rge. 25W Test No. 3 Date 3/28/85

WESTERN TESTING COMPANY INC.  
SUBSURFACE PRESSURE SURVEY

DATE: 3/28/85 TICKET: #7957  
CUSTOMER: PICKRELL DRILLING COMPANY LEASE: CARTER 'F'  
WELL: 3 TEST: 3 GEOLOGIST: KLAVER  
ELEVATION (KB): 2557 FORMATION: MISSISSIPPI  
SECTION: 3 TOWNSHIP: 16S  
RANGE: 25W COUNTY: NESS STATE: KS  
GAUGE SN #2604 RANGE: 4150 CLOCK: 12

INTERVAL TEST FROM: 4504 FT TO: 4515 FT TOTAL DEPTH: 4515 FT  
DEPTH OF SELECTIVE ZONE: FT  
PACKER DEPTH: 4499 FT SIZE: 6 3/4 IN PAKER DEPTH: 4504 FT SIZE: 6 3/4 IN  
PACKER DEPTH: FT SIZE: IN PAKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: PICKRELL  
MUD TYPE: CHEMICAL VISCOSITY: 48  
WEIGHT: 9.4 WATER LOSS (CC): 11.6  
CHLORIDES (P.P.M.): 16000  
JARS - MAKE: SERIAL NUMBER:  
DID WELL FLOW? REVERSED OUT?  
DRILL COLLAR LENGTH: 180 FT I.D.: 2.5 IN  
WEIGHT PIPE LENGTH: FT I.D.: IN  
DRILL PIPE LENGTH: 4304 FT I.D.: 3.6 IN  
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 OD IN  
ANCHOR LENGTH: 11 FT SIZE: 5 1/2 OD IN  
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 XH IN

BLOW: INITIAL FLOW PERIOD WEAK BLOW BUILDING TO 4" IN BUCKET.  
FINAL FLOW PERIOD WEAK BLOW BUILDING TO 5" IN BUCKET.

RECOVERED: 70 FT OF: GAS ABOVE FLUID  
RECOVERED: 70 FT OF: CLEAN GASSY OIL; 40 GRAVITY  
RECOVERED: 40 FT OF: MUD CUT OIL (10% GAS; 30% MUD; 60% OIL)  
RECOVERED: 60 FT OF: MUD CUT OIL (10% GAS; 60% MUD; 30% OIL)  
RECOVERED: 60 FT OF: MUD CUT OIL (15% GAS; 40% MUD; 45% OIL)  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 2:45 AM TIME STARTED OFF BOTTOM: 7:15 AM  
WELL TEMPERATURE: 120 °F  
INITIAL HYDROSTATIC PRESSURE: (A) 2242 PSI  
INITIAL FLOW PERIOD MIN: 30 (B) 39 PSI TO (C) 42 PSI  
INITIAL CLOSED IN PERIOD MIN: 63 (D) 815 PSI  
FINAL FLOW PERIOD MIN: 95 (E) 84 PSI TO (F) 101 PSI  
FINAL CLOSED IN PERIOD MIN: 93 (G) 793 PSI  
FINAL HYDROSTATIC PRESSURE (H) 2202 PSI



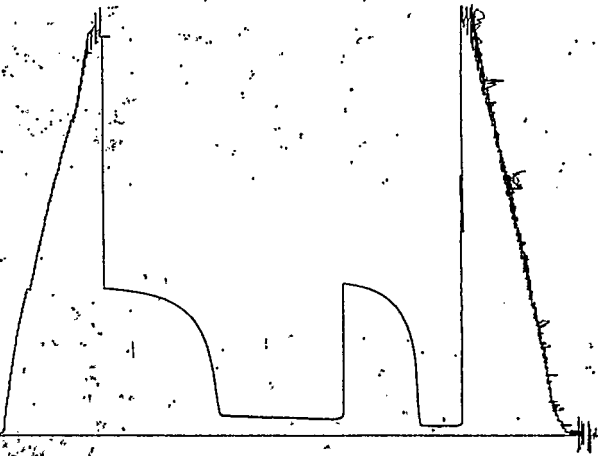


1566

DST 3

TKT # 7957

0



TKT # 7957

I

2604  
D5+3

