



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET

No

9817

P. O. BOX 1599

PHONE (316) 262-5861

WICHITA, KANSAS 67201

Elevation 2555 KB Formation FT. SCOTT Eff. Pay — Ft.COMPANY NAME Pickrell Drilling Company District G.T. Bend Date 5-23-85 Customer Order No. —ADDRESS 110 N. MARKET, Suite 1205 WICHITA, KS, 67202LEASE AND WELL NO. Elmore 1#2 COUNTY Ness STATE Ks. Sec. 17 Twp. 17 Rge. 25WMail Invoice To #2 1" Elmore Address SAME No. Copies Requested 5Mail Charts To SAME Address SAME No. Copies Requested 5Formation Test No. 1 Interval Tested From 4390 ft. to 4426 ft. Total Depth 4426 ft.Packer Depth 4385 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.Packer Depth 4390 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.Depth of Selective Zone Set —Top Recorder Depth (Inside) 4393 ft. Recorder Number 10270 Cap. 4150Bottom Recorder Depth (Outside) 4396 ft. Recorder Number 3659 Cap. 4000Below Straddle Recorder Depth — ft. Recorder Number — Cap. —Drilling Contractor Pickrell Drilling, rig 10 Drill Collar Length 180 I. D. 2.2 in.Mud Type Chemical Viscosity 47 Weight Pipe Length — I. D. — in.Weight 9.2 Water Loss 11.2 cc. Drill Pipe Length 4188 I. D. 3.8 in.Chlorides 11,000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 in.Jars: Make — Serial Number — Anchor Length 36 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 7/8 in. Tool Joint Size 4 1/2 XH in.Blow: IF - Very Weak Blow died in 26 min.FF - NO Blow, Flushed Tool - no helpRecovered 5 ft. of MudRecovered — ft. of —Recovered — ft. of —Recovered — ft. of —Recovered — ft. of —Chlorides — P.P.M. Sample Jars used — Remarks: —Time On Location 5:00 A.M. Time Pick Up Tool 6:30 A.M. Time Off Location 11:45 A.M.Time Set Packer(s) 8:00 A.M. Time Started Off Bottom 9:40 A.M. Maximum Temperature 118°Initial Hydrostatic Pressure (A) 2275 P.S.I.Initial Flow Period (B) 30 Minutes (B) 31 P.S.I. to (C) 31 P.S.I.Initial Closed In Period (D) 60 Minutes (D) 41 P.S.I.Final Flow Period (E) 10 Minutes (E) 31 P.S.I. to (F) 31 P.S.I.Final Closed In Period (G) — Minutes (G) — P.S.I.Final Hydrostatic Pressure (H) 2275 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 representativeWestern Representative Ray Schwag

FIELD INVOICE

Open Hole Test	\$ <u>575</u>
Misrun	\$
Straddle Test	\$
Jars	\$
Selective Zone	\$
Safety Joint	\$
Standby	\$
Evaluation	\$
Extra Packer	\$
Circ. Sub.	\$
Mileage	\$
Fluid Sampler	\$
Extra Charts	\$
Insurance	\$
Telecopier	\$
TOTAL	\$

1925. Thank you

WESTERN TESTING CO., INC.
Pressure Data

Date 5-23

Test Ticket No. 9817

Recorder No. 10270

Capacity _____ Location _____ Ft

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2258</u> P.S.I.			
B First Initial Flow Pressure	<u>33</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins
C First Final Flow Pressure	<u>33</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins
D Initial Closed-in Pressure	<u>52</u> P.S.I.	Second Flow Pressure	<u>10</u> Mins.	<u>10</u> Mins
E Second Initial Flow Pressure	<u>42</u> P.S.I.	Final Closed-in Pressure	<u>—</u> Mins.	<u>—</u> Mins
F Second Final Flow Pressure	<u>48</u> P.S.I.			
G Final Closed-in Pressure	_____ P.S.I.			
H Final Hydrostatic Mud	<u>2227</u> P.S.I.			

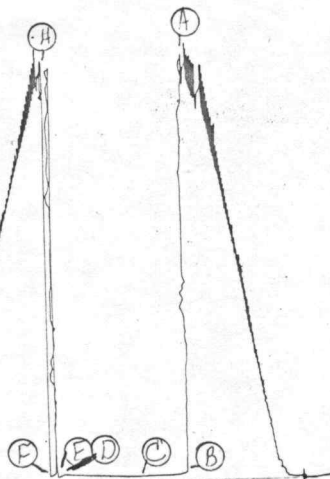
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>7</u> Inc.		Breakdown: <u>21</u> Inc.		Breakdown: <u>3</u> Inc.		Breakdown: <u>1</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>33</u>	0	<u>33</u>	0	<u>42</u>	0	
P 2 5		3		5	<u>59</u> F.T.	3	
P 3 10		6		10	<u>48</u>	6	
P 4 15		9		15		9	
P 5 20		12		20		12	
P 6 25		15	<u>33</u>	25		15	
P 7 30	<u>33</u>	18	<u>34</u>	30		18	
P 8 35		21	<u>35</u>	35		21	
P 9 40		24	<u>36</u>	40		24	
P 10 45		27	<u>38</u>	45		27	
P 11 50		30	<u>40</u>	50		30	
P 12 55		33	<u>41</u>	55		33	
P 13 60		36	<u>42</u>	60		36	
P 14 65		39	<u>43</u>	65		39	
P 15 70		42	<u>44</u>	70		42	
P 16 75		45	<u>45</u>	75		45	
P 17 80		48	<u>46</u>	80		48	
P 18 85		51	<u>47</u>	85		51	
P 19 90		54	<u>48</u>	90		54	
P 20 95		57	<u>50</u>	95		57	
100		60	<u>52</u>	100		60	

TKT # 9817

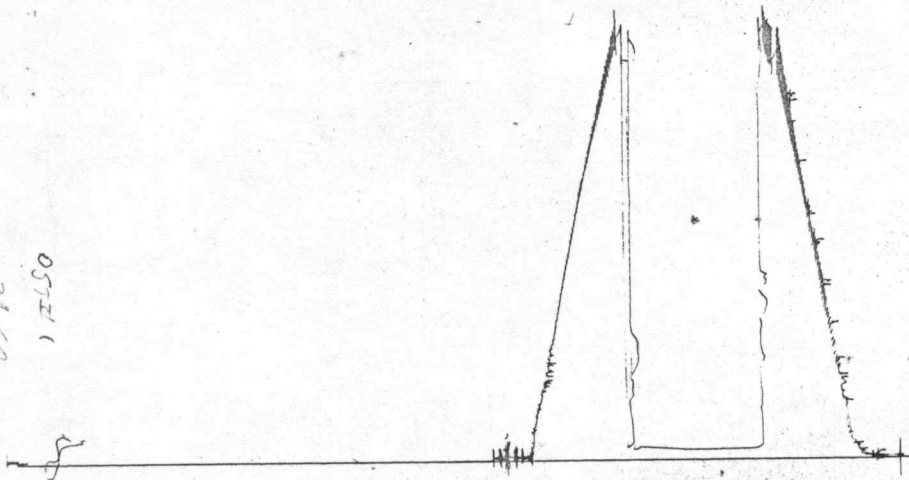
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OST #1



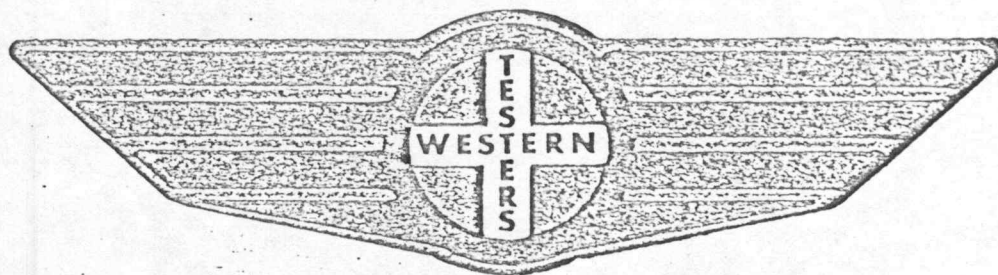
TKT # 9817
O

05711
2910



FORMATION TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company PICKRELL DRILLING COMPANY Lease & Well No. 172 2 11100000 Sec. 1 / 1 Twp. 1 / 5 Rge. 20 W Test No. 1 Date 1/2/50

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 5-23-85
CUSTOMER: PICKRELL DRILLING COMPANY
WELL: 2 TEST: 1
ELEVATION (KB): 2555 FORMATION: FT. SCOTT
SECTION: 17 TOWNSHIP: 17S
RANGE: 25W COUNTY: NESS STATE: KANSAS
GAUGE SN #10270 RANGE: 4150 CLOCK: 12

INTERVAL TEST FROM: 4390 FT TO: 4426 FT TOTAL DEPTH: 4426 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4385 FT SIZE: 6 5/8 IN PACKER DEPTH: 4390 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: PICKRELL DRLG. #10
MUD TYPE: CHEMICAL VISCOSITY: 47
WEIGHT: 9.2 WATER LOSS (CC): 11.2
CHLORIDES (P.P.M.): 11000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 180 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4188 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 22 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 36 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 VERY WEAK BLOW;
DIED IN 26 MINUTES.
FINAL FLOW PERIOD NO BLOW;
FLUSHED TOOL; NO HELP.

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: FLUSHED TOOL FINAL FLOW PERIOD.

TIME SET PACKER(S): 8:00 AM	TIME STARTED OFF BOTTOM: 9:40 AM
WELL TEMPERATURE: 118 °F	
INITIAL HYDROSTATIC PRESSURE:	(A) 2258 PSI
INITIAL FLOW PERIOD MIN: 30	(B) 33 PSI TO (C) 33 PSI
INITIAL CLOSED IN PERIOD MIN: 60	(D) 52 PSI
FINAL FLOW PERIOD MIN: 10	(E) 42 PSI TO (F) 48 PSI
FINAL CLOSED IN PERIOD MIN: 0	(G) 0 PSI
FINAL HYDROSTATIC PRESSURE	(H) 2227 PSI



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N^o 9818

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

Elevation 2555 KB Formation Miss Eff. Pay — Ft.

District GT. Bend Date 5-24-85 Customer Order No. —

COMPANY NAME Pickrell Drilling Company
ADDRESS 110 N. Market, Suite 205 Wichita KS 67202

LEASE AND WELL NO. Elmore L#2 COUNTY Ness STATE Ks. Sec. 17 Twp. 12 Rge. 25

Mail Invoice To #2 "L" Elmore Co. Name Same Address Same No. Copies Requested 5

Mail Charts To Same Address Same No. Copies Requested 5

Formation Test No. 2 Interval Tested From 4465 ft. to 4515 ft. Total Depth 4515 ft.
Packer Depth 4460 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.
Packer Depth 4465 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.
Depth of Selective Zone Set —

Top Recorder Depth (Inside) 4495 ft. Recorder Number 10270 Cap. 4150
Bottom Recorder Depth (Outside) 4478 ft. Recorder Number 3659 Cap. 4000
Below Straddle Recorder Depth — ft. Recorder Number — Cap. —

Drilling Contractor Pickrell Drilling Co. Drill Collar Length 150 I. D. 2.2 in.
Mud Type Chemical Viscosity 54 Weight Pipe Length — I. D. — in.
Weight 9.5 Water Loss 11.2 cc. Drill Pipe Length 4293 I. D. 3.8 in.
Chlorides 9000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 in.
Jars: Make — Serial Number — Anchor Length 50 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 7/8 in. Tool Joint Size 4 1/2 X 4 in.

Blow: IF - Very Weak Blow died in 13 min
FF - NO Blow Flushed Tool NO help
Recovered 5 ft. of Mud w/scum of oil in grind out
Recovered — ft. of —
Recovered — ft. of —
Recovered — ft. of —
Recovered — ft. of —
Chlorides — P.P.M. Sample Jars used 2 Remarks: —

Time On Location 4:00 A.M. Time Pick Up Tool 4:20 A.M. Time Off Location 9:45 A.M.
Time Set Packer(s) 6:15 A.M. Time Started Off Bottom 7:25 A.M. Maximum Temperature 119°
Initial Hydrostatic Pressure (A) 2368 P.S.I.
Initial Flow Period Minutes 30 (B) 41 P.S.I. to (C) 41 P.S.I.
Initial Closed In Period Minutes 30 (D) 738 P.S.I.
Final Flow Period Minutes 10 (E) 41 P.S.I. to (F) 41 P.S.I.
Final Closed In Period Minutes — (G) — P.S.I.
Final Hydrostatic Pressure (H) 2368 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 Larry J. Richards
Signature of Customer or his authorized representative

Western Representative Ray Schwager Thank you
1985

FIELD INVOICE

Open Hole Test \$575
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 5-24

Test Ticket No. 9818

Recorder No. 10270

Capacity _____ Location _____ Ft

Clock No. _____ Elevation _____ Well Temperature _____ °F

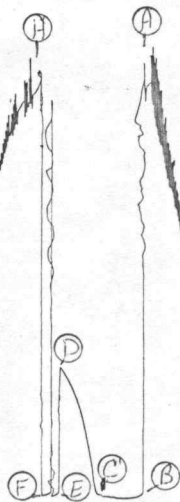
Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2273</u> P.S.I.		
B First Initial Flow Pressure	<u>41</u> P.S.I.		
C First Final Flow Pressure	<u>48</u> P.S.I.		
D Initial Closed-in Pressure	<u>741</u> P.S.I.		
E Second Initial Flow Pressure	<u>53</u> P.S.I.		
F Second Final Flow Pressure	<u>56</u> P.S.I.		
G Final Closed-in Pressure			
H Final Hydrostatic Mud	<u>2273</u> P.S.I.		

Open Tool	M
First Flow Pressure	<u>30</u> Mins. <u>30</u> Mins
Initial Closed-in Pressure	<u>30</u> Mins. <u>30</u> Mins
Second Flow Pressure	<u>10</u> Mins. <u>15</u> Mins
Final Closed-in Pressure	— Mins. — Mins

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>7</u> Inc.		Breakdown: <u>11</u> Inc.		Breakdown: <u>4</u> Inc.		Breakdown: <u>1</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>41</u>	0	<u>48</u>	0	<u>53</u>	0	
P 2 5	<u>5</u>	3	<u>60</u>	5	<u>53</u>	3	
P 3 10	<u>5</u>	6	<u>142</u>	10	<u>60</u>	6	
P 4 15	<u>41</u>	9	<u>277</u>	15	<u>56</u>	9	
P 5 20	<u>43</u>	12	<u>377</u>	20		12	
P 6 25	<u>45</u>	15	<u>469</u>	25		15	
P 7 30	<u>48</u>	18	<u>548</u>	30		18	
P 8 35		21	<u>610</u>	35		21	
P 9 40		24	<u>656</u>	40		24	
P10 45		27	<u>695</u>	45		27	
P11 50		30	<u>741</u>	50		30	
P12 55		33		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	

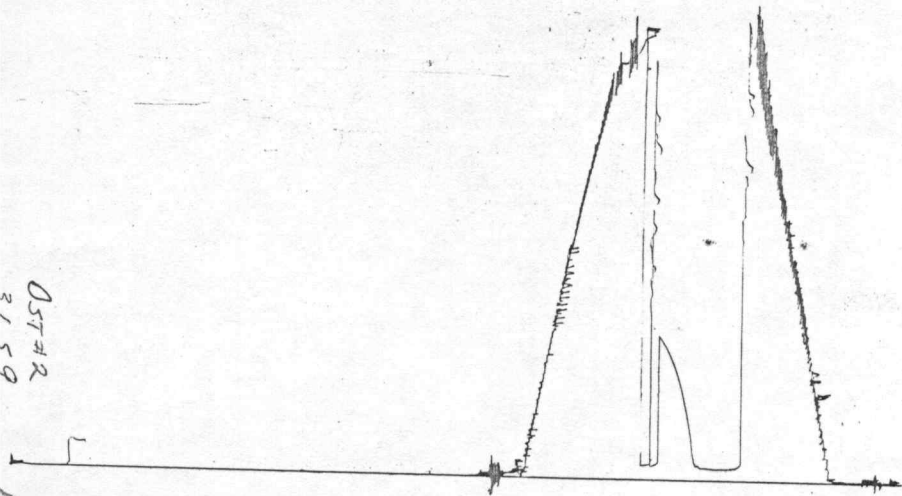
TKT # 9818
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0-7.2
10270

TKT #9818
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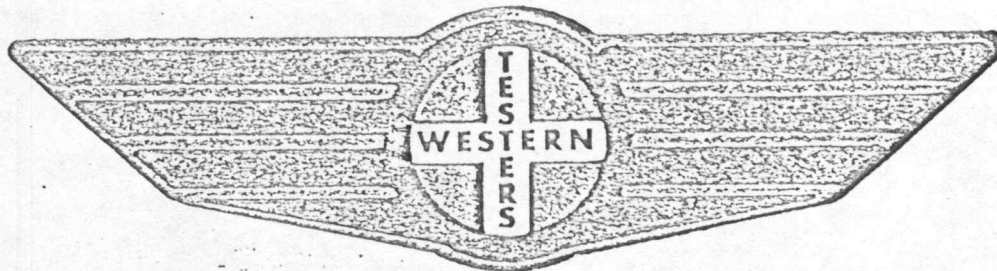
OST#2
2159



FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 5-24-85
CUSTOMER: PICKRELL DRILLING COMPANY
WELL: 2 TEST: 2
ELEVATION (KB): 2555 FORMATION: MISSISSIPPI
SECTION: 17 TOWNSHIP: 17S
RANGE: 25W COUNTY: NESS STATE: KANSAS
GAUGE SN #10270 RANGE: 4150 CLOCK: 12

TICKET #9818

LEASE: "L" ELMORE

GEOLOGIST: L. RICHARDSON

FORMATION: MISSISSIPPI

TOWNSHIP: 17S

STATE: KANSAS

CLOCK: 12

INTERVAL TEST FROM: 4465 FT TO: 4515 FT TOTAL DEPTH: 4515 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4460 FT SIZE: 6 5/8 IN PACKER DEPTH: 4465 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: PICKRELL DRLG. #10
MUD TYPE: CHEMICAL VISCOSITY: 54
WEIGHT: 9.5 WATER LOSS (CC): 11.2
CHLORIDES (P.P.M.): 9000

JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO

DRILL COLLAR LENGTH: 150 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4293 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 22 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 50 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 VERY WEAK BLOW;
DIED IN 13 MINUTES.
FINAL FLOW PERIOD NO BLOW;
FLUSHED TOOL; NO HELP.

RECOVERED: 5 FT OF: MUD WITH SCUM OF OIL IN GRIND OUT.
RECOVERED: FT OF:
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: FLUSHED TOOL FINAL FLOW PERIOD.

TIME SET PACKER(S): 6:15 AM

WELL TEMPERATURE: 119 °F

INITIAL HYDROSTATIC PRESSURE:

INITIAL FLOW PERIOD MIN: 30

INITIAL CLOSED IN PERIOD MIN: 30

FINAL FLOW PERIOD MIN: 15

FINAL CLOSED IN PERIOD MIN: 0

FINAL HYDROSTATIC PRESSURE

TIME STARTED OFF BOTTOM: 7:25 AM

(A) 2273 PSI

(B) 41 PSI TO (C) 48 PSI

(D) 741 PSI

(E) 53 PSI TO (F) 56 PSI

(G) 0 PSI

(H) 2273 PSI



WESTERN TESTING CO., INC. FORMATION TESTING

TICKET No 9819

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

Elevation 2555 KB Formation M.55 Eff. Pay — Ft.

COMPANY NAME

ADDRESS

LEASE AND WELL NO. Elmore 1" #2 COUNTY Ness STATE Ks. Sec. 17 Twp. 17 Rge. 25

Mail Invoice To #2 "L" Elmore Co. Name Same Address Same No. Copies Requested 5

Mail Charts To Same Address Same No. Copies Requested 5

Formation Test No. 3 Interval Tested From 4511 ft. to 4520 ft. Total Depth 4520 ft.
Packer Depth 4506 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.
Packer Depth 4511 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.
Depth of Selective Zone Set —

Top Recorder Depth (Inside) 4514 ft. Recorder Number 10270 Cap. 4150
Bottom Recorder Depth (Outside) 4517 ft. Recorder Number 3859 Cap. 4000
Below Straddle Recorder Depth — ft. Recorder Number — Cap. —
Drilling Contractor Pickrell Drilg rig 10 Drill Collar Length 180 I. D. 2.2 in.
Mud Type Chemical Viscosity 52 Weight Pipe Length — I. D. — in.
Weight 9.5 Water Loss 10.5 cc. Drill Pipe Length 4309 I. D. 3.8 in.
Chlorides 12000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 in.
Jars: Make — Serial Number — Anchor Length 9 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 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: IF - Very Weak Blow throughout
FF - NO BLOW Flushed Tool no help

Recovered 20 ft. of Very Slight Oil & gas cut mud
Recovered — ft. of 96% mud 1% oil 3% gas
Recovered — ft. of —
Recovered — ft. of —
Recovered — ft. of —
Chlorides — P.P.M. Sample Jars used 2 Remarks: —

Time On Location 4:00 A.M. Time Pick Up Tool 4:30 A.M. Time Off Location 10:05 A.M.
Time Set Packer(s) 6:15 P.M. Time Started Off Bottom 7:55 P.M. Maximum Temperature 121
Initial Hydrostatic Pressure — (A) 2368 P.S.I.
Initial Flow Period — Minutes 30 (B) 31 P.S.I. to (C) 31 P.S.I.
Initial Closed In Period — Minutes 60 (D) 1122 P.S.I.
Final Flow Period — Minutes 10 (E) 31 P.S.I. to (F) 31 P.S.I.
Final Closed In Period — Minutes — (G) — P.S.I.
Final Hydrostatic Pressure — (H) 2368 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 Gary J. Richardson
Signature of Customer or his authorized representative

Western Representative Ray Schwager Thank 1985-404

FIELD INVOICE

Open Hole Test \$ 595
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 5-24

Test Ticket No. 9819

Recorder No. 10270

Capacity _____ Location _____ Ft

Clock No. _____ Elevation _____ Well Temperature _____ °F

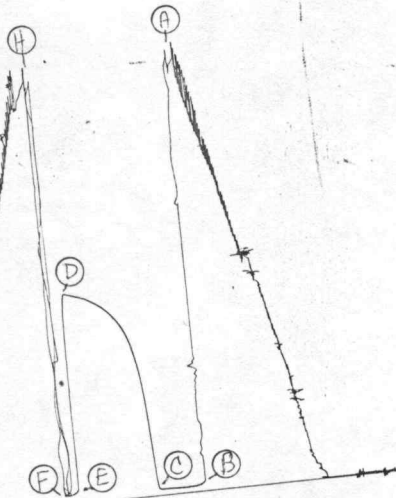
Point	Pressure	Open Tool	Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>2323</u> P.S.I.			
B. First Initial Flow Pressure	<u>31</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C. First Final Flow Pressure	<u>32</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D. Initial Closed-in Pressure	<u>1135</u> P.S.I.	Second Flow Pressure	<u>10</u> Mins.	<u>10</u> Mins.
E. Second Initial Flow Pressure	<u>50</u> P.S.I.	Final Closed-in Pressure	_____ Mins.	_____ Mins.
F. Second Final Flow Pressure	<u>50</u> P.S.I.			
G. Final Closed-in Pressure	_____ P.S.I.			
H. Final Hydrostatic Mud	<u>2323</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>7</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>21</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>3</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>1</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 0	<u>31</u>	0	<u>32</u>	0	<u>50</u>	0	
P 2 5	<u>31</u>	3	<u>142</u>	5	<u>50</u>	3	
P 3 10	<u>31</u>	6	<u>496</u>	10	<u>50</u>	6	
P 4 15	<u>31</u>	9	<u>672</u>	15		9	
P 5 20	<u>32</u>	12	<u>784</u>	20		12	
P 6 25	<u>32</u>	15	<u>853</u>	25		15	
P 7 30	<u>32</u>	18	<u>905</u>	30		18	
P 8 35		21	<u>946</u>	35		21	
P 9 40		24	<u>977</u>	40		24	
P10 45		27	<u>1004</u>	45		27	
P11 50		30	<u>1029</u>	50		30	
P12 55		33	<u>1048</u>	55		33	
P13 60		36	<u>1064</u>	60		36	
P14 65		39	<u>1078</u>	65		39	
P15 70		42	<u>1089</u>	70		42	
P16 75		45	<u>1102</u>	75		45	
P17 80		48	<u>1110</u>	80		48	
P18 85		51	<u>1117</u>	85		51	
P19 90		54	<u>1124</u>	90		54	
P20 95		57	<u>1132</u>	95		57	
100		60	<u>1135</u>	100		60	

TKT #9819

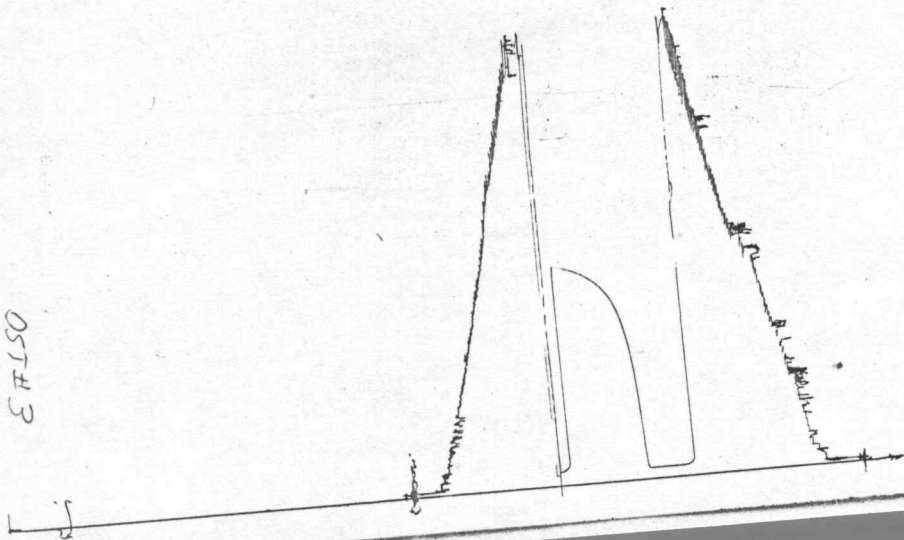
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8#150

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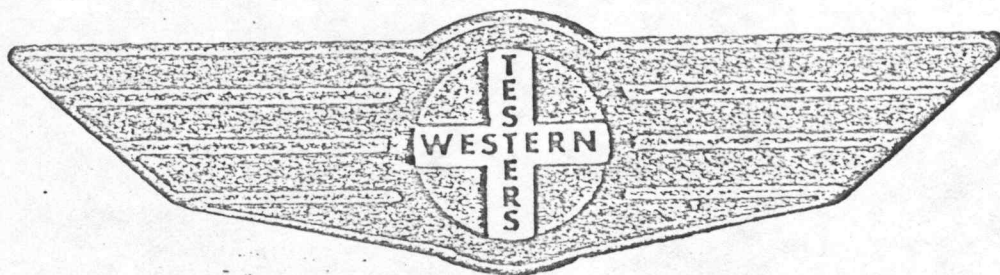
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01/10



FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company

PICKRELL DRILLING COMPANY

Lease & Well No.

#2 "L" ELMORE

Sec. 1/

Twp.

Rge.

Low Test No.

Date

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 5-24-85
CUSTOMER: PICKRELL DRILLING COMPANY
WELL: 2
ELEVATION (KB): 2555
SECTION: 17
RANGE: 25W
GAUGE SN #10270

TEST: 3
FORMATION: MISSISSIPPI
TOWNSHIP: 17S
COUNTY: NESS
RANGE: 4150

TICKET #9819
LEASE: "L" ELMORE
GEOLOGIST: L. RICHARDSON
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 4511 FT TO: 4520 FT TOTAL DEPTH: 4520 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4506 FT SIZE: 6 5/8 IN PACKER DEPTH: 4511 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: PICKRELL DRLG. #10
MUD TYPE: CHEMICAL VISCOSITY: 52
WEIGHT: 9.5 WATER LOSS (CC): 10.5
CHLORIDES (P.P.M.): 12000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 180 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4309 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 22 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 9 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 VERY WEAK
BLOW THROUGHOUT.
FINAL FLOW PERIOD NO BLOW;
FLUSHED TOOL; NO HELP.

RECOVERED: 20 FT OF: VERY SLIGHTLY OIL & GAS CUT MUD
RECOVERED: FT OF: (96% MUD; 1% OIL; 3% GAS).
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS: FLUSHED TOOL FINAL FLOW PERIOD.

TIME SET PACKER(S): 6:15 PM

TIME STARTED OFF BOTTOM: 7:55 PM

WELL TEMPERATURE: 121 °F

INITIAL HYDROSTATIC PRESSURE:		(A) 2323	PSI	
INITIAL FLOW PERIOD	MIN: 30	(B) 31	PSI TO (C) 32	PSI
INITIAL CLOSED IN PERIOD	MIN: 60	(D) 1135	PSI	
FINAL FLOW PERIOD	MIN: 10	(E) 50	PSI TO (F) 50	PSI
FINAL CLOSED IN PERIOD	MIN: 0	(G) 0	PSI	
FINAL HYDROSTATIC PRESSURE		(H) 2323	PSI	



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N^o 9820

P. O. BOX 1599 PHONE (316) 262-5861

WICHITA, KANSAS 67201

Elevation 2555 KB Formation Miss Eff. Pay — Ft.

District GT. Bend Date 5-25-85 Customer Order No. —

COMPANY NAME Pickrell Drilling Company

ADDRESS 110 N. MARKET, Suite 205 WICHITA, KS, 67202

LEASE AND WELL NO. Elmore "L" #2 COUNTY Ness STATE Ks. Sec. 17 Twp. 17 Rge. 25

Mail Invoice To #2 "L" Elmore SAME Address No. Copies Requested 5

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 4 Interval Tested From 4515 ft. to 4525 ft. Total Depth 4525 ft.

Packer Depth 4510 ft. Size 65/8 in. Packer Depth — ft. Size — in.

Packer Depth 4515 ft. Size 65/8 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 4519 ft. Recorder Number 10270 Cap. 4150

Bottom Recorder Depth (Outside) 4522 ft. Recorder Number 3659 Cap. 4000

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

Drilling Contractor Pickrell Drilling rig 10 Drill Collar Length 180 I. D. 2.2 in.

Mud Type Chemical Viscosity 528 Weight Pipe Length — I. D. — in.

Weight 9.5 Water Loss 105 cc. Drill Pipe Length 4313 I. D. 3.8 in.

Chlorides 12000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 in.

Jars: Make — Serial Number — Anchor Length 10 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 7/8 in. Tool Joint Size 4 1/2 x 4 in.

Blow: IF - Weak Blow Throughout

FF - Weak Blow Throughout

Recovered 120 ft. of Muddy WATER

Recovered — ft. of w/ show of clean oil on top of first 60'

Recovered — ft. of —

Recovered — ft. of —

Recovered — ft. of —

Chlorides 28000 P.P.M. Sample Jars used 2 Remarks: —

Time On Location 12:30 A.M. Time Pick Up Tool 4:30 A.M. Time Off Location — A.M.

Time Set Packer(s) 6:00 A.M. Time Started Off Bottom 9:00 A.M. Maximum Temperature 124°

Initial Hydrostatic Pressure 2400 P.S.I.

Initial Flow Period 30 Minutes (B) 20 P.S.I. to (C) 41 P.S.I.

Initial Closed In Period 60 Minutes (D) 1184 P.S.I.

Final Flow Period 30 Minutes (E) 52 P.S.I. to (F) 62 P.S.I.

Final Closed In Period 60 Minutes (G) 1132 P.S.I.

Final Hydrostatic Pressure 2358 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 Ray Schwager
Signature of Customer or his authorized representative

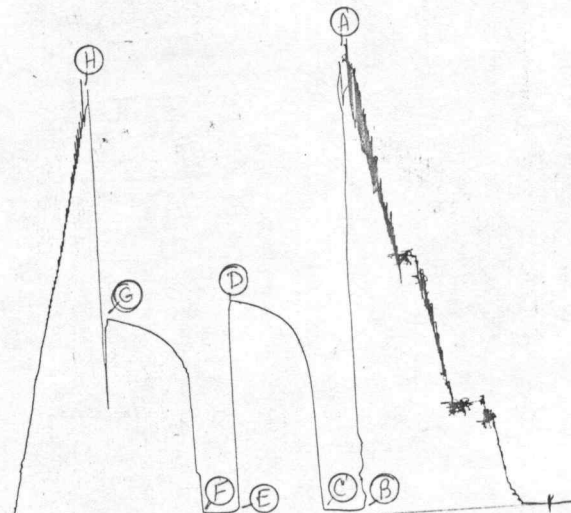
Western Representative Ray Schwager Thank you
1985

FIELD INVOICE

Open Hole Test \$ 595
Misrun \$ —
Straddle Test \$ —
Jars \$ —
Selective Zone \$ —
Safety Joint \$ —
Standby \$ —
Evaluation \$ —
Extra Packer \$ —
Circ. Sub. \$ —
Mileage \$ —
Fluid Sampler \$ —
Extra Charts \$ —
Insurance \$ —
Telecopier \$ —
TOTAL \$ —

TKT #9820
I

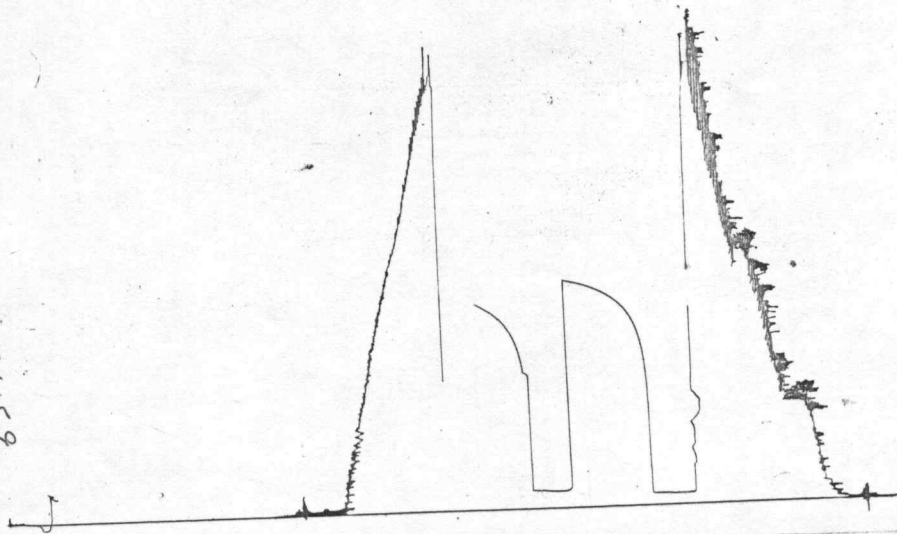
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TKT #9820

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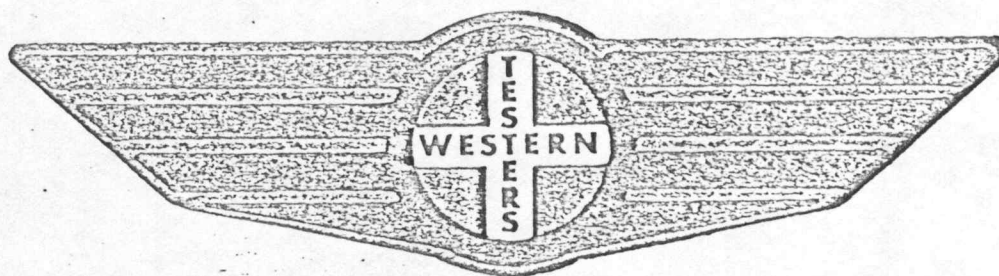
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company PICKRELL DRILLING COMPANY Lease & Well No. #2 "L" ELWAKE Sec. 1 Twp. 1 Rge. 20W Test No. 4 Date 2/22/00

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 5-25-85
CUSTOMER: PICKRELL DRILLING COMPANY
WELL: 2 TEST: 4
ELEVATION (KB): 2555 FORMATION: MISSISSIPPI
SECTION: 17 TOWNSHIP: 17S
RANGE: 25W COUNTY: NESS STATE: KANSAS
GAUGE SN #10270 RANGE: 4150 CLOCK: 12

TICKET #9820

LEASE: "L" ELMORE

GEOLOGIST: L. RICHARDSON

FORMATION: MISSISSIPPI

TOWNSHIP: 17S

STATE: KANSAS

CLOCK: 12

INTERVAL TEST FROM: 4515 FT TO: 4525 FT TOTAL DEPTH: 4525 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4510 FT SIZE: 6 5/8 IN PACKER DEPTH: 4515 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: PICKRELL DRLG. #10
MUD TYPE: CHEMICAL VISCOSITY: 52
WEIGHT: 9.5 WATER LOSS (CC): 10.5
CHLORIDES (P.P.M.): 12000

JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO

DRILL COLLAR LENGTH: 180 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4313 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 22 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 10 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: WEAK BLOW THROUGHOUT TEST.

RECOVERED: 120 FT OF: MUDDY WATER WITH A SHOW OF CLEAN
RECOVERED: FT OF: OIL ON TOP OF FIRST 60 FEET.
RECOVERED: FT OF: CHLORIDES 28000 PPM.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 6:00 AM TIME STARTED OFF BOTTOM: 9:00 AM
WELL TEMPERATURE: 124 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2410 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 32 PSI TO (C) 43 PSI
INITIAL CLOSED IN PERIOD MIN: 60 (D) 1193 PSI
FINAL FLOW PERIOD MIN: 25 (E) 65 PSI TO (F) 71 PSI
FINAL CLOSED IN PERIOD MIN: 63 (G) 1141 PSI
FINAL HYDROSTATIC PRESSURE (H) 2306 PSI

