



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 1143

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

Elevation 2197 K.B. Formation MORROW SAND Eff. Pay Ft.

District PPATT Date 3-27-79 Customer Order No.

COMPANY NAME PICKRELL DRILLING CO.

ADDRESS 612 WIN BLDG. SUITE 205 110 W. MARKET WICHITA, KS.

LEASE AND WELL NO. SEACAT D-6 COUNTY CLARK STATE KS Sec. 31 Twp 20S Rge 21W

Mail Invoice To Co. Name SAME Address No. Copies Requested

Mail Charts To Co. Name SAME Address No. Copies Requested

Formation Test No. 2 Interval Tested from 5150 ft. to 5195 ft. Total Depth 5195 ft.

Packer Depth 5145 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 5150 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 5180 ft. Recorder Number 6246 Cap. 5200

Bottom Recorder Depth (Outside) 5183 ft. Recorder Number 5673 Cap. 5400

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor CO TOOL Drill Collar Length 240 I. D. 2 1/4 in.

Mud Type DRYPAC Viscosity 45 Weight Pipe Length I. D. in.

Weight 9.2 Water Loss 24 cc. Drill Pipe Length 4880 I. D. 3.8 in.

Chlorides P.P.M. Test Tool Length 30 in. Tool Size 5 1/2 in.

Jars: Make W.T.C. Serial Number Anchor Length 45 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 in.

Blow: PACKER FAILURE SLID TOOL 16 FT. TO BOTTOM.

Recovered ft. of

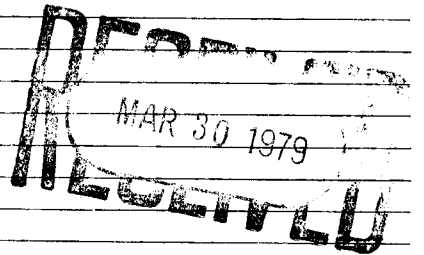
Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:



Time Set Packer(s) 7.20 AM. P.M. Time Started Off Bottom AM. P.M. Maximum Temperature

Initial Hydrostatic Pressure (A) 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 (H) 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 [Signature] Signature of Customer or his authorized representative

Western Representative Bill Chagen Thank You

FIELD INVOICE

Open Hole Test \$ Misrun \$ 225.00 Straddle Test \$ Jars \$ 250.00 Selective Zone \$ Safety Joint \$ Standby \$ Evaluation \$ Extra Packer \$ Circ. Sub. \$ Mileage \$ Extra Charts \$

TOTAL \$ 475.00

Company Pickrell Drilling Company Lease & Well No. Seacat "D"#6  
 Elevation 2197 Kelly Bushing Formation Morrer Sand Effective Pay -- Ft. Ticker No. 1143  
 Date 3/27/79 Sec. 31 Twp. 30S Range 21W County Clark State Kansas  
 Test Approved by Mike G. Russell Western Representative Bill Hager

Formation Test No. 2 Interval Tested from 5150 ft. to 5195 ft. Total Depth 5195 ft.  
 Packer Depth 5145 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 5150 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 5180 ft. Recorder Number 6246 Cap. 5200  
 Bottom Recorder Depth (Outside) 5183 ft. Recorder Number 5673 Cap. 5400  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Pickrell Drilling Drill Collar Length 240 I. D. 2 1/4 in.  
 Mud Type drispac Viscosity 45 Weight Pipe Length - I. D. - in.  
 Weight 9.2 Water Loss 24 cc. Drill Pipe Length 4880 I. D. 3.8 in.  
 Chlorides - P.P.M. Test Tool Length 30' Tool Size 5 1/2 in.  
 Jars: Make WTC Serial Number 408 Anchor Length 45' 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 1/2XH in.

Blow: Packer Failure  
Slid tool 16 feet to bottom.

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_ MISRUN  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

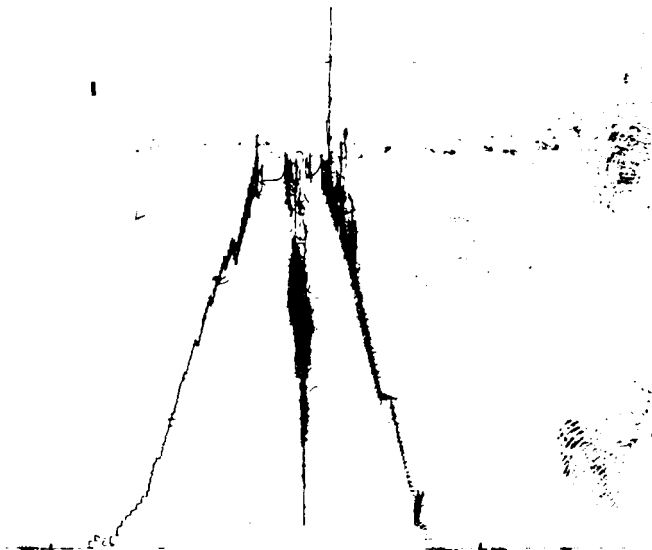
Remarks: \_\_\_\_\_  
 \_\_\_\_\_

Time Set Packer(s) 7:20 A.M. Time Started Off Bottom \_\_\_\_\_ A.M. Maximum Temperature \_\_\_\_\_  
P.M. P.M.  
 Initial Hydrostatic Pressure \_\_\_\_\_ (A) \_\_\_\_\_ 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 \_\_\_\_\_ (H) \_\_\_\_\_ P.S.I.

Tckt: 1143

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2246





WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 1144

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

Elevation 2197 K.B Formation MORROW SAND Eff. Pay Ft.

District PRATT Date 3-28-79 Customer Order No.

COMPANY NAME PICKRELL DRILG.

ADDRESS BITWIN BLDG, SUITE 205 - 110 N. MARKET WICHITA, KS 67202

LEASE AND WELL NO SEACAT D-6 COUNTY CLAIK STATE KS Sec 31 Twp 30S Rge 21 W

Mail Invoice To Co. Name SAME Address No. Copies Requested 10

Mail Charts To Co. Name SAME Address No. Copies Requested 10

Formation Test No. 3 Interval Tested from 5148 ft. to 5195 ft. Total Depth 5195 ft. Packer Depth 5143 ft. Size 6 3/4 in. Packer Depth 5148 ft. Size 6 3/4 in. Packer Depth 5148 ft. Size 6 3/4 in. Depth of Selective Zone Set

Top Recorder Depth (Inside) 5178 ft. Recorder Number 6246 Cap. 5200 Bottom Recorder Depth (Outside) 5181 ft. Recorder Number 5673 Cap. 5400 Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor CO. TOOLS Drill Collar Length 240 I. D. 2 1/4 in. Mud Type DRILL MUD Viscosity 56 Weight Pipe Length I. D. in. Weight 9.2 Water Loss 14.6 cc. Drill Pipe Length 4878 I. D. 3.8 in. Chlorides 25000 P.P.M. Test Tool Length 30 in. Tool Size 5 1/2 in. Jars: Make W.T.C. Serial Number Anchor Length 47 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 9/16 X 1 1/2 in.

Blow: STRONG BLOW THRU-OUT TEST GAS TO SURFACE IN 35 MIN. 2 1/2" OPENING TOO SMALL TO CAUSE

Recovered 60 ft. of GAS CUT WATERY MUD Recovered 480 ft. of SH. OIL & GAS CUT MUDDY WATER Recovered 300 ft. of GAS CUT SULFA WATER Recovered ft. of Recovered ft. of

Remarks: SLID TOOL 10 FT. TO BOTTOM

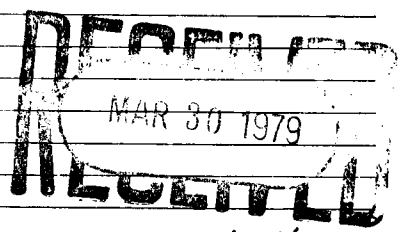


Table with 4 columns: Time Set Packer(s), Time Started Off Bottom, Maximum Temperature, and P.S.I. values for various tests (A-H).

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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 [Signature] Signature of Customer or his authorized representative

Western Representative [Signature]

FIELD INVOICE

Table listing items: Open Hole Test, Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Extra Charts.

TOTAL \$885.00

WESTERN TESTING CO., INC.

Pressure Data

Date 3-28-79 Test Ticket No. 1144  
 Recorder No. 6246 Capacity 5200 Location 5178 Ft.  
 Clock No. \_\_\_\_\_ Elevation 2197 KB Well Temperature 124 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2480</u>	P.S.I.	<u>12:35</u>	<u>PM</u>
B First Initial Flow Pressure	<u>79</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
C First Final Flow Pressure	<u>178</u>	P.S.I.	<u>60</u>	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>982</u>	P.S.I.	<u>90</u>	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>209</u>	P.S.I.	<u>60</u>	<u>60</u> Mins.
F Second Final Flow Pressure	<u>298</u>	P.S.I.		
G Final Closed-in Pressure	<u>966</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2460</u>	P.S.I.		

PRESSURE BREAKDOWN

Point Mins.	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>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes
P 1	<u>79</u>	<u>0</u>	<u>178</u>	<u>0</u>	<u>209</u>	<u>0</u>	<u>298</u>	<u>0</u>
P 2	<u>107</u>	<u>3</u>	<u>236</u>	<u>3</u>	<u>196</u>	<u>3</u>	<u>351</u>	<u>3</u>
P 3	<u>126</u>	<u>6</u>	<u>319</u>	<u>6</u>	<u>204</u>	<u>6</u>	<u>445</u>	<u>6</u>
P 4	<u>141</u>	<u>9</u>	<u>411</u>	<u>9</u>	<u>215</u>	<u>9</u>	<u>537</u>	<u>9</u>
P 5	<u>139</u>	<u>12</u>	<u>508</u>	<u>12</u>	<u>223</u>	<u>12</u>	<u>615</u>	<u>12</u>
P 6	<u>157</u>	<u>15</u>	<u>584</u>	<u>15</u>	<u>230</u>	<u>15</u>	<u>696</u>	<u>15</u>
P 7	<u>178</u>	<u>18</u>	<u>654</u>	<u>18</u>	<u>233</u>	<u>18</u>	<u>736</u>	<u>18</u>
P 8		<u>21</u>	<u>727</u>	<u>21</u>	<u>239</u>	<u>21</u>	<u>774</u>	<u>21</u>
P 9		<u>24</u>	<u>780</u>	<u>24</u>	<u>245</u>	<u>24</u>	<u>813</u>	<u>24</u>
P 10		<u>27</u>	<u>827</u>	<u>27</u>	<u>249</u>	<u>27</u>	<u>852</u>	<u>27</u>
P 11		<u>30</u>	<u>859</u>	<u>30</u>	<u>255</u>	<u>30</u>	<u>890</u>	<u>30</u>
P 12		<u>33</u>	<u>877</u>	<u>33</u>	<u>261</u>	<u>33</u>	<u>902</u>	<u>33</u>
P 13		<u>36</u>	<u>895</u>	<u>36</u>	<u>267</u>	<u>36</u>	<u>915</u>	<u>36</u>
P 14		<u>39</u>	<u>916</u>	<u>39</u>	<u>272</u>	<u>39</u>	<u>927</u>	<u>39</u>
P 15		<u>42</u>	<u>932</u>	<u>42</u>	<u>277</u>	<u>42</u>	<u>938</u>	<u>42</u>
P 16		<u>45</u>	<u>950</u>	<u>45</u>	<u>283</u>	<u>45</u>	<u>950</u>	<u>45</u>
P 17		<u>48</u>	<u>956</u>	<u>48</u>	<u>288</u>	<u>48</u>	<u>954</u>	<u>48</u>
P 18		<u>51</u>	<u>963</u>	<u>51</u>	<u>293</u>	<u>51</u>	<u>957</u>	<u>51</u>
P 19		<u>54</u>	<u>989</u>	<u>54</u>	<u>298</u>	<u>54</u>	<u>960</u>	<u>54</u>
P 20		<u>57</u>	<u>975</u>	<u>57</u>		<u>57</u>	<u>963</u>	<u>57</u>
		<u>60</u>	<u>982</u>	<u>60</u>		<u>60</u>	<u>966</u>	<u>60</u>

Company Pickrell Drilling Company Lease & Well No. Seacat "D"#6  
 Elevation 2197 Kelly Bushing Formation Morrow Sand Effective Pay -- Ft. Ticket No. 1144  
 Date 3/28/79 Sec. 31 Twp. 30S Range 21W County Clark State Kansas  
 Test Approved by Mike G. Russell Western Representative Bill Hager

Formation Test No. 3 Interval Tested from 5148' ft. to 5195' ft. Total Depth 5195' ft.  
 Packer Depth 5143 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 5148 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set --

Top Recorder Depth (Inside) 5178 ft. Recorder Number 6246 Cap. 5200  
 Bottom Recorder Depth (Outside) 5181 ft. Recorder Number 5673 Cap. 5400  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Pickrell Drilling Drill Collar Length 240 I. D. 2 1/4 in.  
 Mud Type drispac Viscosity 56 Weight Pipe Length === I. D. === in.  
 Weight 9.2 Water Loss 14.6 cc. Drill Pipe Length 4878 I. D. 3.8 in.  
 Chlorides 25,000 P.P.M. Test Tool Length 30' Tool Size 5 1/2 in.  
 Jars: Make WTC Serial Number -- Anchor Length 47' 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 XH in.

Blow: Strong blow throughout test.  
Gas to surface in 35 minutes second opening. Too small to gauge.

Recovered 60 ft. of gas cut watery mud  
 Recovered 480 ft. of slightly oil and gas cut muddy water  
 Recovered 300 ft. of gas cut sulfur water  
 Recovered          ft. of           
 Recovered          ft. of         

Remarks: Slid tool 10 feet to bottom.

Time Set Packer(s) 12:35 ~~A.M.~~ P.M. Time Started Off Bottom 4:35 ~~A.M.~~ P.M. Maximum Temperature 124  
 Initial Hydrostatic Pressure ..... (A) 2480 P.S.I.  
 Initial Flow Period ..... Minutes 30 (B) 79 P.S.I. to (C) 178 P.S.I.  
 Initial Closed In Period ..... Minutes 60 (D) 982 P.S.I.  
 Final Flow Period ..... Minutes 90 (E) 209 P.S.I. to (F) 298 P.S.I.  
 Final Closed In Period ..... Minutes 60 (G) 966 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 2460 P.S.I.

# WESTERN TESTING CO., INC.

## Pressure Data

Date 3/28/79 Test Ticket No. 1144  
 Recorder No. 6246 Capacity 5200 Location 5178 Ft.  
 Clock No. -- Elevation 2197 Kelly Bushing Well Temperature 124 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2480	P.S.I.	12:35P	M
B First Initial Flow Pressure	79	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	178	P.S.I.	60	Mins. 60 Mins.
D Initial Closed-in Pressure	982	P.S.I.	90	Mins. 90 Mins.
E Second Initial Flow Pressure	209	P.S.I.	60	Mins. 60 Mins.
F Second Final Flow Pressure	298	P.S.I.		
G Final Closed-in Pressure	966	P.S.I.		
H Final Hydrostatic Mud	2460	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: 20 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	79	0	178	0	209	0	298
P 2	5	107	3	236	5	196	3	351
P 3	10	126	6	319	10	204	6	445
P 4	15	141	9	411	15	215	9	537
P 5	20	139	12	508	20	223	12	615
P 6	25	157	15	584	25	230	15	696
P 7	30	178	18	654	30	233	18	736
P 8			21	727	35	239	21	774
P 9			24	780	40	245	24	813
P10			27	827	45	249	27	852
P11			30	859	50	255	30	890
P12			33	877	55	261	33	902
P13			36	895	60	267	36	915
P14			39	916	65	272	39	927
P15			42	932	70	277	42	938
P16			45	950	75	283	45	950
P17			48	956	80	288	48	954
P18			51	963	85	293	51	957
P19			54	969	90	298	54	960
P20			57	975			57	963
WTC - 4			60	982			60	966

TRK# 1144  
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