

Company Pickrell Drilling Company Lease & Well No. #1 "H" Maples

Elevation 1522 Kelly Bushing Formation Mississippi Effective Pay -- Ft. Ticket No. 18315

Date 11/22/82 Sec. 30 Twp. 29S Range 6W County Kingman State Kansas

Test Approved by Thomas Funk Western Representative Rod Tritt

Formation Test No. 1 Interval Tested from 4122 ft. to 4139 ft. Total Depth 4139 ft.

Packer Depth 4117 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4122 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4126 ft. Recorder Number 2606 Cap. 4150

Bottom Recorder Depth (Outside) 4129 ft. Recorder Number 4332 Cap. 4200

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

Drilling Contractor Pickrell Drilling Drill Collar Length 248 I. D. 2 1/4 in.

Mud Type cellex Viscosity 64 Weight Pipe Length - I. D. - in.

Weight 9.5 Water Loss 13.2 cc. Drill Pipe Length 3850 I. D. 3.8 in.

Chlorides 10,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.

Jars: Make -- Serial Number -- Anchor Length 17 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; gas to surface in one minute into final flow period. See attached sheet for gas measurements.

Recovered 90 ft. of gassy drilling mud

Recovered 180 ft. of oil cut gassy mud (40% mud; 10% water; 15% oil; 35% gas)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 2:10 ~~AM~~ P.M. Time Started Off Bottom 6:40 ~~AM~~ P.M. Maximum Temperature 125°

Initial Hydrostatic Pressure 2236 P.S.I. (A)

Initial Flow Period 25 Minutes (B) 121 P.S.I. to (C) 121 P.S.I.

Initial Closed In Period 60 Minutes (D) 860 P.S.I.

Final Flow Period 90 Minutes (E) 135 P.S.I. to (F) 135 P.S.I.

Final Closed In Period 90 Minutes (G) 1234 P.S.I.

Final Hydrostatic Pressure 1901 P.S.I. (H)

GAS FLOW REPORT

Date 11/22/82 Ticket 18315 Company Pickrell Drilling Company
 Well Name and No. #1 "H" Maple Dst No. 1 Interval Tested 4122'-4139'
 County Kingman State Kansas Sec. 30 Twp. 29S Rg. 6W

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
--------------------	-------------------------------------	-----------------	------------------------	------------------------------	---------------------

PRE FLOW

SECOND FLOW

One minute	Gas to surface		
10 min.	5" of water	1" orifice	57,700 CFPD
20 min.	4" of water	1" orifice	51,600 CFPD
30 min.	4" of water	1" orifice	51,600 CFPD
40 min.	4" of water	1" orifice	51,600 CFPD
50 min.	4" of water	1" orifice	51,600 CFPD
60 min.	4" of water	1" orifice	51,600 CFPD
70 min.	4" of water	1" orifice	51,600 CFPD
80 min.	4" of water	1" orifice	51,600 CFPD
90 min.	4" of water	1" orifice	51,600 CFPD

GAS BOTTLE

Serial No. ---- Date Bottle Filled -- Date to be Invoiced 11/22/82

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 11½% 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 Thomas Funk

Pressure Data

H Final Hydrostatic Mud_____

Time Time

Time Given		Time Computed	
2:10P	M		
30	Mins.	30	Mins.
60	Mins.	60	Mins.
90	Mins.	90	Mins.
90	Mins.	90	Mins.
	Mins.		Mins.

final inc. of 0 Min.

Point Minutes 0	Press. 135
3	333
6	479
9	595
12	682
15	757
18	814
21	859
24	902
27	935
30	969
33	999
36	1025
39	1048
42	1066
45	1085
48	1104
51	1119
54	1132
57	1146
60	1157

WESTERN TESTING CO., INC.

Pressure Data

Date 11/22/82

Test Ticket No. 18315

Recorder No. 2606 Capacity 4150

Location 4126 Ft

Clock No. -- Elevation 1522 Kelly Bushing

Well Temperature 125 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2236 P.S.I.	Open Tool	2:10P	M
B First Initial Flow Pressure	121 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	121 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	860 P.S.I.	Second Flow Pressure	90 Mins.	90 Mins.
E Second Initial Flow Pressure	135 P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F Second Final Flow Pressure	135 P.S.I.			
G Final Closed-in Pressure	1234 P.S.I.			
H Final Hydrostatic Mud	1901 P.S.I.			

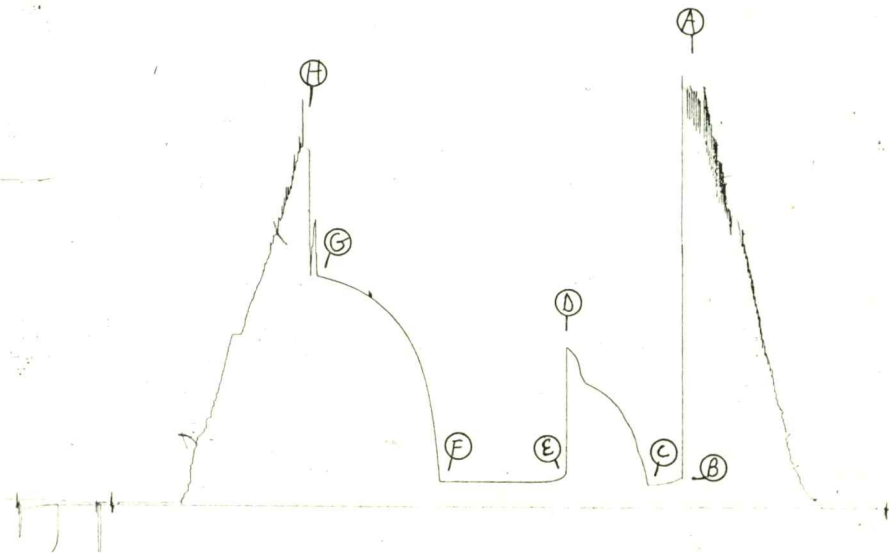
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>5</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>18</u> Inc.		Breakdown: <u>30</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						63	1167
P 2						66	1177
P 3						69	1186
P 4						72	1195
P 5						75	1204
P 6						78	1210
P 7						81	1216
P 8						84	1222
P 9						87	1228
P10						90	1234
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

2406 1121 H1

TKT # 18315

I



Company Pickrell Drilling Company Lease & Well No. #1 "H" Maple
Elevation 1522 Kelly Bushing Formation Mississippi Effective Pay -- Ft. Ticket No. 18316
Date 11/ 23 /82 Sec. 30 Twp. 29S Range 6W County Kingman State Kansas
Test Approved by Thomas Funk Western Representative Rod Tritt

Formation Test No. 2 Interval Tested from 4139 ft. to 4154 ft. Total Depth 4154 ft.
Packer Depth 4134 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 4139 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4142 ft. Recorder Number 2606 Cap. 4150
Bottom Recorder Depth (Outside) 4145 ft. Recorder Number 4332 Cap. 4200
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Pickrell Drilling Rig #10 Drill Collar Length 248 I. D. 2 1/4 in.
Mud Type cellex Viscosity 50 Weight Pipe Length - I. D. - in.
Weight 9.1 Water Loss 14.4 cc. Drill Pipe Length 3871 I. D. 3.8 in.
Chlorides 10,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
Jars: Make ---- Serial Number - Anchor Length 15 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 FH in.

Blow: Weak blow on initial flow period after sliding tool ten feet to fifteen feet. Flow
weak for fifteen minuts on final flow period.

Recovered 420 ft. of mud
Recovered - ft. of -
Recovered - ft. of -
Recovered - ft. of -
Recovered - ft. of -

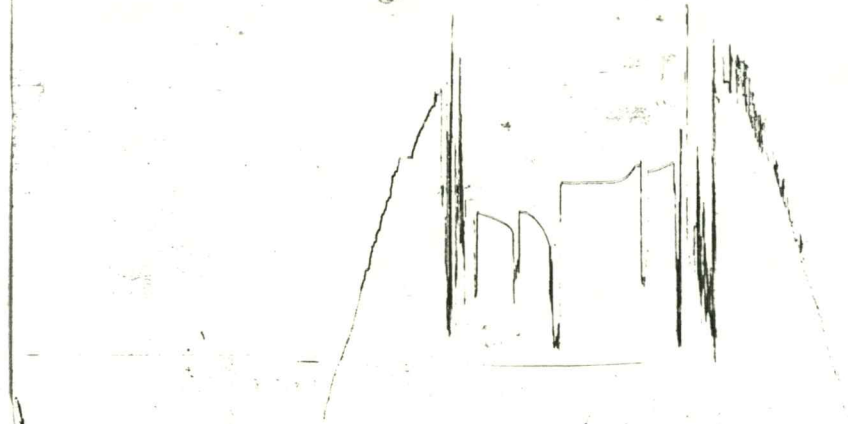
Remarks: Slid tool to bottom after it opened - approximately fifteen feet.

MISRUN

Time Set Packer(s) - A.M. P.M. Time Started Off Bottom - A.M. P.M. Maximum Temperature -
Initial Hydrostatic Pressure - (A) 1977 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) 1941 P.S.I.

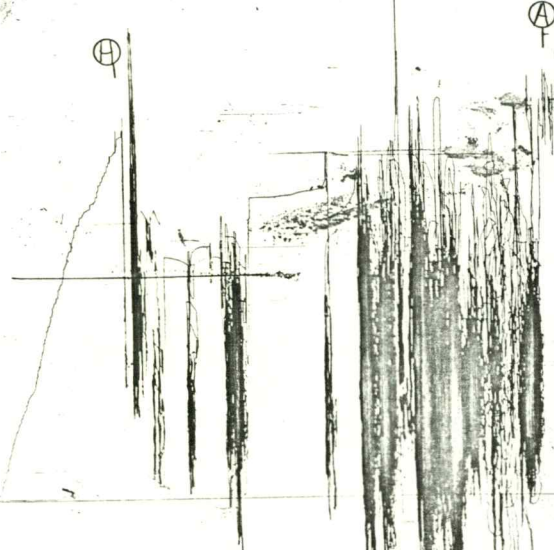
4332 DST#2

TKT # 18316



2606 DST#2

TKT # 18316



Company Pickrell Drilling Company Lease & Well No. #1 "H" Maple
 Elevation 1522 Kelly Bushing Mississippi Effective Pay -- Ft. Ticket No. 18317
 Date 11/ 24 /82 Sec. 30 Twp. 29S Range 6W County Kingman State Kansas
 Test Approved by Thomas Funk Western Representative Rod Tritt
 Formation Test No. 3 Interval Tested from 4140 ft. to 4157 ft. Total Depth 4157 ft.
 Packer Depth 4135 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4140 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4143 ft. Recorder Number 2606 Cap. 4150
 Bottom Recorder Depth (Outside) 4146 ft. Recorder Number 4332 Cap. 4200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Pickrell Drilling Rig #10 Drill Collar Length 248 I. D. 2 1/4 in.
 Mud Type cellex Viscosity 49 Weight Pipe Length - I. D. - in.
 Weight 9.1 Water Loss 11.0 cc. Drill Pipe Length 3872 I. D. 3.8 in.
 Chlorides 13,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
 Jars: Make ---- Serial Number - Anchor Length 17 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 FH in.

Blow: Strong blow on initial flow period and strong blow on final flow period in five minutes.
No gas to surface.

Recovered 90 ft. of oil spotted drilling mud
 Recovered 120 ft. of slightly oil cut gassy mud 22% gas;1% oil;77% mud
 Recovered 120 ft. of slightly oil and water cut mud 75% mud;1% oil;20% water
 Recovered 240 ft. of water Chlorides 35,000 ppm
 Recovered ft. of

Remarks:

Time Set Packer(s) 6:15 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 10:45 ~~P.M.~~ ^{A.M.} Maximum Temperature 130°
 Initial Hydrostatic Pressure 2134 P.S.I. (A)
 Initial Flow Period 35 Minutes (B) 241 P.S.I. to (C) 241 P.S.I.
 Initial Closed In Period 60 Minutes (D) 1098 P.S.I.
 Final Flow Period 100 Minutes (E) 267 P.S.I. to (F) 271 P.S.I.
 Final Closed In Period 90 Minutes (G) 1043 P.S.I.
 Final Hydrostatic Pressure 2071 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 11/24/82 Test Ticket No. 18317
 Recorder No. 2606 Capacity 4150 Location 4143 Ft.
 Clock No. - Elevation 1522 Kelly Bushing Well Temperature 130 °F
 Point Pressure Time Given Time Computed
 A Initial Hydrostatic Mud 2134 P.S.I. Open Tool 6:15A M
 B First Initial Flow Pressure 241 P.S.I. First Flow Pressure 30 Mins. 35 Mins.
 C First Final Flow Pressure 241 P.S.I. Initial Closed-in Pressure 60 Mins. 60 Mins.
 D Initial Closed-in Pressure 1098 P.S.I. Second Flow Pressure 90 Mins. 100 Mins.
 E Second Initial Flow Pressure 267 P.S.I. Final Closed-in Pressure 90 Mins. 90 Mins.
 F Second Final Flow Pressure 271 P.S.I.
 G Final Closed-in Pressure 1043 P.S.I.
 H Final Hydrostatic Mud 2071 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>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>20</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>30</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>241</u>	<u>0</u>	<u>241</u>	<u>0</u>	<u>267</u>	<u>0</u>	<u>271</u>
P 2 <u>5</u>	<u>241</u>	<u>3</u>	<u>393</u>	<u>5</u>	<u>267</u>	<u>3</u>	<u>347</u>
P 3 <u>10</u>	<u>241</u>	<u>6</u>	<u>514</u>	<u>10</u>	<u>267</u>	<u>6</u>	<u>429</u>
P 4 <u>15</u>	<u>241</u>	<u>9</u>	<u>604</u>	<u>15</u>	<u>267</u>	<u>9</u>	<u>512</u>
P 5 <u>20</u>	<u>241</u>	<u>12</u>	<u>676</u>	<u>20</u>	<u>267</u>	<u>12</u>	<u>570</u>
P 6 <u>25</u>	<u>241</u>	<u>15</u>	<u>738</u>	<u>25</u>	<u>267</u>	<u>15</u>	<u>616</u>
P 7 <u>30</u>	<u>241</u>	<u>18</u>	<u>790</u>	<u>30</u>	<u>267</u>	<u>18</u>	<u>659</u>
P 8 <u>35</u>	<u>241</u>	<u>21</u>	<u>833</u>	<u>35</u>	<u>267</u>	<u>21</u>	<u>695</u>
P 9		<u>24</u>	<u>869</u>	<u>40</u>	<u>267</u>	<u>24</u>	<u>729</u>
P10		<u>27</u>	<u>902</u>	<u>45</u>	<u>267</u>	<u>27</u>	<u>759</u>
P11		<u>30</u>	<u>930</u>	<u>50</u>	<u>267</u>	<u>30</u>	<u>784</u>
P12		<u>33</u>	<u>955</u>	<u>55</u>	<u>267</u>	<u>33</u>	<u>808</u>
P13		<u>36</u>	<u>979</u>	<u>60</u>	<u>267</u>	<u>36</u>	<u>829</u>
P14		<u>39</u>	<u>1001</u>	<u>65</u>	<u>267</u>	<u>39</u>	<u>850</u>
P15		<u>42</u>	<u>1020</u>	<u>70</u>	<u>267</u>	<u>42</u>	<u>868</u>
P16		<u>45</u>	<u>1037</u>	<u>75</u>	<u>267</u>	<u>45</u>	<u>886</u>
P17		<u>48</u>	<u>1053</u>	<u>80</u>	<u>267</u>	<u>48</u>	<u>902</u>
P18		<u>51</u>	<u>1067</u>	<u>85</u>	<u>267</u>	<u>51</u>	<u>919</u>
P19		<u>54</u>	<u>1080</u>	<u>90</u>	<u>267</u>	<u>54</u>	<u>935</u>
P20		<u>57</u>	<u>1092</u>	<u>95</u>	<u>269</u>	<u>57</u>	<u>947</u>
WTC - 4		<u>60</u>	<u>1098</u>	<u>100</u>	<u>271</u>	<u>60</u>	<u>958</u>

CONT'D NEXT PAGE

WESTERN TESTING CO., INC.

Pressure Data

Date 11/24/82 Test Ticket No. 18317
 Recorder No. 2606 Capacity 4150 Location 4143 Ft.
 Clock No. - Elevation 1522 Kelly Bushing Well Temperature 130 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2134</u> P.S.I.	Open Tool	<u>6:15A</u> M	
B First Initial Flow Pressure	<u>241</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>35</u> Mins.
C First Final Flow Pressure	<u>241</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1098</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>100</u> Mins.
E Second Initial Flow Pressure	<u>267</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>271</u> P.S.I.			
G Final Closed-in Pressure	<u>1043</u> P.S.I.			
H Final Hydrostatic Mud	<u>2071</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>20</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>30</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						63	969
P 2						66	980
P 3						69	991
P 4						72	1002
P 5						75	1010
P 6						78	1017
P 7						81	1024
P 8						84	1031
P 9						87	1037
P10						90	1043
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

2666 RST#3

TKT # 18317

I

