

Company Mack Oil Company Lease & Well No. Trust #4
 Elevation 1302 Kelly Bushing Formation Hunton Effective Pay --- Ft. Ticket No. 5904
 Date 8/12/80 Sec. 9 Twp. 16S Range 10E County Lyon State Kansas
 Test Approved by David Mills Western Representative Kenny Kirkendall
 Formation Test No. 1 Interval Tested from 2957 ft. to 2963 ft. Total Depth 2963 ft.
 Packer Depth 2957 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 2952 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 2943 ft. Recorder Number 2605 Cap. 4150
 Bottom Recorder Depth (Outside) 2960 ft. Recorder Number 10980 Cap. 4200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Glacier Drilling Rig 1 Drill Collar Length 180 I. D. - in.
 Mud Type chemical Viscosity 40 Weight Pipe Length - I. D. - in.
 Weight 9.2 Water Loss 10.4 cc. Drill Pipe Length - I. D. - in.
 Chlorides 1,800 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 in.
 Jars: Make No Serial Number - Anchor Length 6 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 3 1/2 IF in.

Blow: Good blow first flow; fair blow throughout second flow period.

Recovered 1530 ft. of free oil

Recovered 660 ft. of salt water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 10:40 ~~A.M.~~ P.M. Time Started Off Bottom 1:25 ~~A.M.~~ P.M. Maximum Temperature 122°
 Initial Hydrostatic Pressure (A) 1433 P.S.I.
 Initial Flow Period Minutes 25 (B) 67 P.S.I. to (C) 387 P.S.I.
 Initial Closed In Period Minutes 33 (D) 1053 P.S.I.
 Final Flow Period Minutes 60 (E) 468 P.S.I. to (F) 918 P.S.I.
 Final Closed In Period Minutes 69 (G) 1057 P.S.I.
 Final Hydrostatic Pressure (H) 1387 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 8/12/80 Test Ticket No. 5904
 Recorder No. 2605 Capacity 4150 Location 2943 Ft.
 Clock No. - Elevation 1302 Well Temperature 122 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1433</u> P.S.I.	Open Tool	<u>10:40P</u> M	
B First Initial Flow Pressure	<u>67</u> P.S.I.	First Flow Pressure	<u>15</u> Mins.	<u>25</u> Mins.
C First Final Flow Pressure	<u>387</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
D Initial Closed-in Pressure	<u>1053</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>468</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>69</u> Mins.
F Second Final Flow Pressure	<u>918</u> P.S.I.			
G Final Closed-in Pressure	<u>1057</u> P.S.I.			
H Final Hydrostatic Mud	<u>1387</u> P.S.I.			

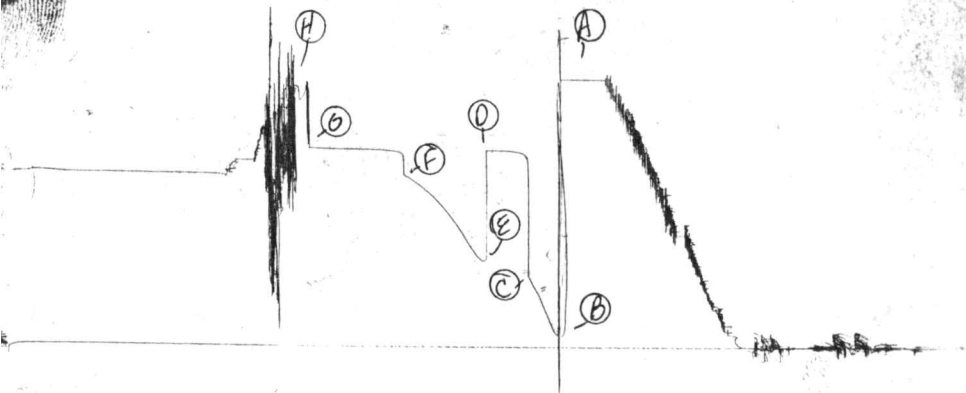
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>5</u> Inc.		Breakdown: <u>11</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>23</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>67</u>	<u>0</u>	<u>387</u>	<u>0</u>	<u>468</u>	<u>0</u>	<u>918</u>
P 2 <u>5</u>	<u>122</u>	<u>3</u>	<u>918</u>	<u>5</u>	<u>480</u>	<u>3</u>	<u>1037</u>
P 3 <u>10</u>	<u>201</u>	<u>6</u>	<u>1033</u>	<u>10</u>	<u>528</u>	<u>6</u>	<u>1043</u>
P 4 <u>15</u>	<u>281</u>	<u>9</u>	<u>1039</u>	<u>15</u>	<u>576</u>	<u>9</u>	<u>1045</u>
P 5 <u>20</u>	<u>338</u>	<u>12</u>	<u>1045</u>	<u>20</u>	<u>630</u>	<u>12</u>	<u>1047</u>
P 6 <u>25</u>	<u>387</u>	<u>15</u>	<u>1047</u>	<u>25</u>	<u>675</u>	<u>15</u>	<u>1049</u>
P 7		<u>18</u>	<u>1051</u>	<u>30</u>	<u>715</u>	<u>18</u>	<u>1050</u>
P 8		<u>21</u>	<u>1053</u>	<u>35</u>	<u>758</u>	<u>21</u>	<u>1051</u>
P 9		<u>24</u>	<u>1053</u>	<u>40</u>	<u>794</u>	<u>24</u>	<u>1052</u>
P10		<u>27</u>	<u>1053</u>	<u>45</u>	<u>827</u>	<u>27</u>	<u>1053</u>
P11		<u>30</u>	<u>1053</u>	<u>50</u>	<u>852</u>	<u>30</u>	<u>1053</u>
P12		<u>33</u>	<u>1053</u>	<u>55</u>	<u>883</u>	<u>33</u>	<u>1053</u>
P13				<u>60</u>	<u>918</u>	<u>36</u>	<u>1053</u>
P14						<u>39</u>	<u>1053</u>
P15						<u>42</u>	<u>1053</u>
P16						<u>45</u>	<u>1053</u>
P17						<u>48</u>	<u>1053</u>
P18						<u>51</u>	<u>1053</u>
P19						<u>54</u>	<u>1053</u>
P20						<u>57</u>	<u>1053</u>
						<u>60</u>	<u>1055</u>
						<u>63</u>	<u>1056</u>
						<u>66</u>	<u>1057</u>

SKT #5904

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Company Mack Oil Company Lease & Well No. Trust #4
 Elevation ---- Formation Hunton Effective Pay -- Ft. Ticket No. 5905
 Date 8/13/80 Sec. 9 Twp. 16S Range 10E County Lyon State Kansas
 Test Approved by David J. Mills Western Representative Kenny Kirkendall
 Formation Test No. 2 Interval Tested from 3059 ft. to 3065 ft. Total Depth 3065 ft.
 Packer Depth 3059 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3054 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 3045 ft. Recorder Number 2605 Cap. 4150
 Bottom Recorder Depth (Outside) 3065 ft. Recorder Number 10980 Cap. 4200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Glacier Drilling Rig #1 Drill Collar Length 180 I. D. - in.
 Mud Type chemical Viscosity 37 Weight Pipe Length - I. D. - in.
 Weight 9.3 Water Loss 10.3 cc. Drill Pipe Length 2846 I. D. - in.
 Chlorides 1,500 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 in.
 Jars: Make No Serial Number - Anchor Length 6 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 3 1/2 IF in.

Blow: Good blow initial flow period.

Recovered 2428 ft. of salt water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 3:20 A.M. Time Started Off Bottom - P.M. Maximum Temperature -
 Initial Hydrostatic Pressure (A) 1508 P.S.I.
 Initial Flow Period Minutes 15 (B) 54 P.S.I. to (C) 508 P.S.I.
 Initial Closed In Period Minutes 33 (D) 1037 P.S.I.
 Final Flow Period Minutes 60 (E) 605 P.S.I. to (F) 1037 P.S.I.
 Final Closed In Period Minutes 66 (G) 1037 P.S.I.
 Final Hydrostatic Pressure (H) 1487 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 8-13-80 Test Ticket No. 5905
 Recorder No. 2605 Capacity 4150 Location 3045 Ft.
 Clock No. ----- Elevation ----- Well Temperature ----- °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1508</u> P.S.I.	Open Tool	<u>3:20</u> M	
B First Initial Flow Pressure	<u>54</u> P.S.I.	First Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>508</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
D Initial Closed-in Pressure	<u>1037</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>605</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>66</u> Mins.
F Second Final Flow Pressure	<u>1037</u> P.S.I.			
G Final Closed-in Pressure	<u>1037</u> P.S.I.			
H Final Hydrostatic Mud	<u>1487</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>3</u> Inc.		Breakdown: <u>11</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>22</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>54</u>	<u>0</u>	<u>508</u>	<u>0</u>	<u>605</u>	<u>0</u>	<u>1037</u>
P 2 <u>5</u>	<u>205</u>	<u>3</u>	<u>1008</u>	<u>5</u>	<u>649</u>	<u>3</u>	<u>1037</u>
P 3 <u>10</u>	<u>377</u>	<u>6</u>	<u>1033</u>	<u>10</u>	<u>734</u>	<u>6</u>	<u>1037</u>
P 4 <u>15</u>	<u>508</u>	<u>9</u>	<u>1037</u>	<u>15</u>	<u>813</u>	<u>9</u>	<u>1037</u>
P 5		<u>12</u>	<u>1037</u>	<u>20</u>	<u>877</u>	<u>12</u>	<u>1037</u>
P 6		<u>15</u>	<u>1037</u>	<u>25</u>	<u>929</u>	<u>15</u>	<u>1037</u>
P 7		<u>18</u>	<u>1037</u>	<u>30</u>	<u>971</u>	<u>18</u>	<u>1037</u>
P 8		<u>21</u>	<u>1037</u>	<u>35</u>	<u>996</u>	<u>21</u>	<u>1037</u>
P 9		<u>24</u>	<u>1037</u>	<u>40</u>	<u>1016</u>	<u>24</u>	<u>1037</u>
P10		<u>27</u>	<u>1037</u>	<u>45</u>	<u>1028</u>	<u>27</u>	<u>1037</u>
P11		<u>30</u>	<u>1037</u>	<u>50</u>	<u>1035</u>	<u>30</u>	<u>1037</u>
P12		<u>33</u>	<u>1037</u>	<u>55</u>	<u>1037</u>	<u>33</u>	<u>1037</u>
P13				<u>60</u>	<u>1037</u>	<u>36</u>	<u>1037</u>
P14						<u>39</u>	<u>1037</u>
P15						<u>42</u>	<u>1037</u>
P16						<u>45</u>	<u>1037</u>
P17						<u>48</u>	<u>1037</u>
P18						<u>51</u>	<u>1037</u>
P19						<u>54</u>	<u>1037</u>
P20						<u>57</u>	<u>1037</u>
						<u>60</u>	<u>1037</u>
						<u>63</u>	<u>1037</u>
						<u>66</u>	<u>1037</u>

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