

Company Martin Oil Company Lease & Well No. Hogoboom # 32-1  
 Elevation 1323 Formation Viola Effective Pay ----- Ft. Ticket No. 5982  
 Date 6-21-80 Sec. 32 Twp. 26S Range 5E County Butler State Kansas  
 Test Approved by Paul Koontz Western Representative Kenny Kirkendall

Formation Test No. 1 Interval Tested from 2634 ft. to 2644 ft. Total Depth 2644 ft.  
 Packer Depth 2634 ft. Size 6 3/4 in. Packer Depth ----- ft. Size --- in.  
 Packer Depth 2629 ft. Size 6 3/4 in. Packer Depth ----- ft. Size --- in.

Depth of Selective Zone Set -----  
 Top Recorder Depth (Inside) 2638 ft. Recorder Number 2605 Cap. 4200 PSI  
 Bottom Recorder Depth (Outside) 2643 ft. Recorder Number 10980 Cap. 4200 PSI  
 Below Straddle Recorder Depth ---- ft. Recorder Number ---- Cap. -----

Drilling Contractor Pioneer #1 Drill Collar Length 180 I. D. --- in.  
 Mud Type Chem Viscosity 50 Weight Pipe Length 360 I. D. --- in.  
 Weight 9.8 Water Loss 14.0 cc. Drill Pipe Length 2173 I. D. --- in.  
 Chlorides 2,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.  
 Jars: Make None 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 IF in.

Blow: Weak blow throughout first flow period. No blow on second flow period.

Recovered 65 ft. of Mud with oil spots on top of tool  
 Recovered        ft. of         
 Recovered        ft. of         
 Recovered        ft. of         
 Recovered        ft. of       

Remarks:       

Time Set Packer(s) 2:10 <sup>A.M.</sup>/<sub>P.M.</sub> Time Started Off Bottom 4:50 <sup>A.M.</sup>/<sub>P.M.</sub> Maximum Temperature Broken  
 Initial Hydrostatic Pressure ..... (A) 1419 P.S.I.  
 Initial Flow Period ..... Minutes 30 (B) 19 P.S.I. to (C) 27 P.S.I.  
 Initial Closed In Period ..... Minutes 30 (D) 466 P.S.I.  
 Final Flow Period ..... Minutes 60 (E) 32 P.S.I. to (F) 46 P.S.I.  
 Final Closed In Period ..... Minutes 30 (G) 464 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 1407 P.S.I.

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

Date 6-21-80 Test Ticket No. 5982  
 Recorder No. 10980 Capacity 4200 Location 2643 Ft.  
 Clock No. --- Elevation 1323 Well Temperature Broken °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1419</u> P.S.I.	Open Tool	<u>2:10</u> A. M.	
B First Initial Flow Pressure	<u>19</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>27</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>466</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>32</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>46</u> P.S.I.			
G Final Closed-in Pressure	<u>464</u> P.S.I.			
H Final Hydrostatic Mud	<u>1407</u> P.S.I.			

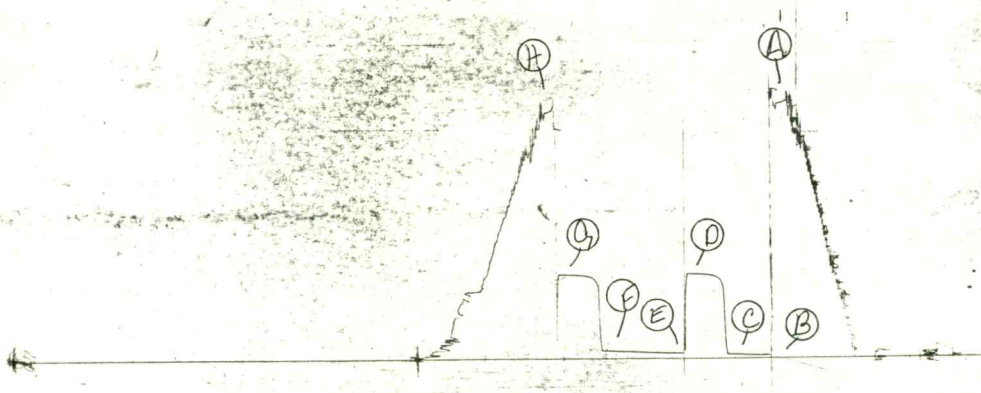
**PRESSURE BREAKDOWN**

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>10</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>19</u>	<u>0</u>	<u>27</u>	<u>0</u>	<u>32</u>	<u>0</u>	<u>46</u>
P 2 <u>5</u>	<u>20</u>	<u>3</u>	<u>263</u>	<u>5</u>	<u>33</u>	<u>3</u>	<u>393</u>
P 3 <u>10</u>	<u>21</u>	<u>6</u>	<u>427</u>	<u>10</u>	<u>33</u>	<u>6</u>	<u>438</u>
P 4 <u>15</u>	<u>22</u>	<u>9</u>	<u>449</u>	<u>15</u>	<u>33</u>	<u>9</u>	<u>449</u>
P 5 <u>20</u>	<u>23</u>	<u>12</u>	<u>455</u>	<u>20</u>	<u>34</u>	<u>12</u>	<u>455</u>
P 6 <u>25</u>	<u>26</u>	<u>15</u>	<u>459</u>	<u>25</u>	<u>36</u>	<u>15</u>	<u>457</u>
P 7 <u>30</u>	<u>27</u>	<u>18</u>	<u>464</u>	<u>30</u>	<u>37</u>	<u>18</u>	<u>459</u>
P 8		<u>21</u>	<u>465</u>	<u>35</u>	<u>38</u>	<u>21</u>	<u>463</u>
P 9		<u>24</u>	<u>465</u>	<u>40</u>	<u>41</u>	<u>24</u>	<u>463</u>
P10		<u>27</u>	<u>466</u>	<u>45</u>	<u>43</u>	<u>27</u>	<u>464</u>
P11		<u>30</u>	<u>466</u>	<u>50</u>	<u>44</u>	<u>30</u>	<u>464</u>
P12				<u>55</u>	<u>45</u>		
P13				<u>60</u>	<u>46</u>		
P14							
P15							
P16							
P17							
P18							
P19							
P20							

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Company Martin Oil Company Lease & Well No. Hogboom #32-1  
 Elevation 1323 Kelly Bushing Formation Viola Effective Pay ---- Ft. Ticket No. 5983  
 Date 6-21-80 Sec. 32 Twp 26S Range 5E County Butler State Kansas  
 Test Approved by P. Koontz Western Representative Kenny Kirkendall

Formation Test No. 2 Interval Tested from 2650 ft. to 2662 ft. Total Depth 2662 ft.  
 Packer Depth 2650 ft. Size 6 3/4 in. Packer Depth ---- ft. Size ---- in.  
 Packer Depth 2645 ft. Size 6 3/4 in. Packer Depth ---- ft. Size --- in.

Depth of Selective Zone Set -----  
 Top Recorder Depth (Inside) 2655 ft. Recorder Number 2605 Cap. 4200  
 Bottom Recorder Depth (Outside) 2659 ft. Recorder Number 10980 Cap. 4200  
 Below Straddle Recorder Depth ---- ft. Recorder Number ---- Cap. ---

Drilling Contractor Pioneer # 1 Drill Collar Length 180 I. D. ---- in.  
 Mud Type Chem Viscosity 50 Weight Pipe Length 360 I. D. ---- in.  
 Weight 9.8 Water Loss 14 cc. Drill Pipe Length 2189 I. D. ----- in.  
 Chlorides 2,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.  
 Jars: Make No Serial Number -- Anchor Length 12 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 FH in.

Blow: Fair blow throughout first flow period. Fair blow throughout second flow period.

Recovered 5 ft. of Free Oil  
 Recovered 600 ft. of Muddy salt water  
 Recovered      ft. of       
 Recovered      ft. of       
 Recovered      ft. of     

Remarks:     

Time Set Packer(s) 2:25 ~~AM~~ PM Time Started Off Bottom 4:25 AM PM Maximum Temperature 106  
 Initial Hydrostatic Pressure ..... (A) 1396 P.S.I.  
 Initial Flow Period ..... Minutes 30 (B) 19 P.S.I. to (C) 200 P.S.I.  
 Initial Closed In Period ..... Minutes 33 (D) 439 P.S.I.  
 Final Flow Period ..... Minutes 30 (E) 231 P.S.I. to (F) 276 P.S.I.  
 Final Closed In Period ..... Minutes 30 (G) 439 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 1379 P.S.I.

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

Date 6-21-80 Test Ticket No. 5983  
 Recorder No. 2605 Capacity 4200 Location 2655 Ft.  
 Clock No. --- Elevation 1323 Kelly Bushing Well Temperature 106 °F

Point	Pressure			Time Given		Time Computed	
		P.S.I.		P.	M.	Mins.	Mins.
A. Initial Hydrostatic Mud	1396	P.S.I.	Open Tool	2:25			
B. First Initial Flow Pressure	19	P.S.I.	First Flow Pressure	30	Mins.	30	Mins.
C. First Final Flow Pressure	200	P.S.I.	Initial Closed-in Pressure	30	Mins.	33	Mins.
D. Initial Closed-in Pressure	439	P.S.I.	Second Flow Pressure	30	Mins.	30	Mins.
E. Second Initial Flow Pressure	231	P.S.I.	Final Closed-in Pressure	30	Mins.	30	Mins.
F. Second Final Flow Pressure	276	P.S.I.					
G. Final Closed-in Pressure	439	P.S.I.					
H. Final Hydrostatic Mud	1379	P.S.I.					

**PRESSURE BREAKDOWN**

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes
P 1 0	19	0	200	0	231	0	276	0
P 2 5	55	3	366	3	235	3	392	3
P 3 10	91	6	391	6	249	6	410	6
P 4 15	124	9	408	9	258	9	417	9
P 5 20	151	12	416	12	265	12	424	12
P 6 25	176	15	421	15	272	15	428	15
P 7 30	200	18	426	18	276	18	430	18
P 8		21	430	21		21	432	21
P 9		24	432	24		24	434	24
P10		27	435	27		27	435	27
P11		30	437	30		30	439	30
P12		33	439					
P13								
P14								
P15								
P16								
P17								
P18								
P19								
P20								

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TK# 5983

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