

Company Hummon Corporation Lease & Well No. Lyman #2

Elevation -- Formation --- Effective Pay ---- Ft. Ticket No. 15214

Date 5/27/82 Sec. 28 Twp. 32S Range 11W County Barber State Kansas

Test Approved by Tim Pierce Western Representative Mike Rogers

Formation Test No. 1 Interval Tested from 3670 ft. to 3720 ft. Total Depth 3720 ft.

Packer Depth 3670 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3705 ft. Recorder Number 1566 Cap. 4300

Bottom Recorder Depth (Outside) 3709 ft. Recorder Number 3086 Cap. 4500

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

Drilling Contractor Big H Drlg. Drill Collar Length 375 I. D. 2.2 in.

Mud Type starch Viscosity 41 Weight Pipe Length - I. D. - in.

Weight 9.4 Water Loss 15.2 cc. Drill Pipe Length 3279 I. D. 3.8 in.

Chlorides 29,000 P.P.M. Test Tool Length 16 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 in.

Blow: Fair three inch blow slowly building to strong then slightly decreasing; then increasing on initial flow period. Fair three inch blow depleating to two inch blow on final flow period.

Recovered 125 ft. of heavy gas cut drilling mud with a very few oil specks

Recovered 240 ft. of heavy gas cut and slightly oil cut drilling mud

Recovered 120 ft. of heavy gas cut and slightly oil cut drilling mud with 8% oil, 30% water; 62% mud with 59,000 ppm chlorides

Recovered - ft. of -

Recovered - ft. of -

Remarks: Tool slid five feet before opening then steadily slid additional five feet throughout initial flow period.

Time Set Packer(s)	<u>11:45</u>	<u>A.M.</u> <u>P.M.</u>	Time Started Off Bottom	<u>3:15</u>	<u>A.M.</u> <u>P.M.</u>	Maximum Temperature	<u>116°</u>
Initial Hydrostatic Pressure			(A)	<u>1996</u>		P.S.I.	
Initial Flow Period			Minutes <u>40</u>	(B)	<u>212</u>	P.S.I. to (C)	<u>253 *</u> P.S.I.
Initial Closed In Period			Minutes <u>54</u>	(D)	<u>1075</u>	P.S.I.	
Final Flow Period			Minutes <u>45</u>	(E)	<u>260</u>	P.S.I. to (F)	<u>260</u> P.S.I.
Final Closed In Period			Minutes <u>54</u>	(G)	<u>910</u>	P.S.I.	
Final Hydrostatic Pressure			(H)	<u>1939</u>		P.S.I.	

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

Date 5/27/82 Test Ticket No. 15214  
 Recorder No. 1566 Capacity 4300 Location 3705 Ft.  
 Clock No. -- Elevation --- Well Temperature 116 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1996 P.S.I.	Open Tool	11:45P	M
B First Initial Flow Pressure	212 P.S.I.	First Flow Pressure	45 Mins.	45 Mins.
C First Final Flow Pressure	253 * P.S.I.	Initial Closed-in Pressure	60 Mins.	54 Mins.
D Initial Closed-in Pressure	1075 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	260 P.S.I.	Final Closed-in Pressure	60 Mins.	54 Mins.
F Second Final Flow Pressure	260 P.S.I.			
G Final Closed-in Pressure	910 P.S.I.			
H Final Hydrostatic Mud	1939 P.S.I.			

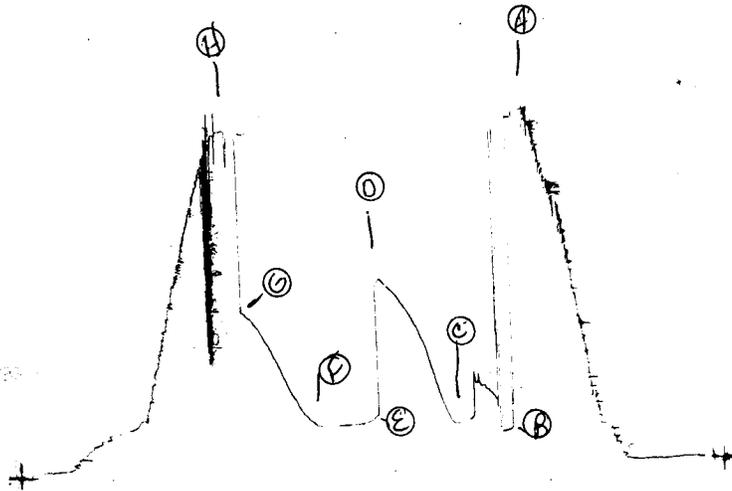
\* PRESSURES QUESTIONABLE: SEE REMARKS

**PRESSURE BREAKDOWN**

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>8</u> Inc.		Breakdown: <u>18</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>18</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>212 *</u>	<u>0</u>	<u>253 *</u>	<u>0</u>	<u>260</u>	<u>0</u>	<u>260</u>
P 2 <u>5</u>	<u>207 *</u>	<u>3</u>	<u>257</u>	<u>5</u>	<u>260</u>	<u>3</u>	<u>279</u>
P 3 <u>10</u>	<u>FLUSHED TOOL</u>	<u>6</u>	<u>298</u>	<u>10</u>	<u>260</u>	<u>6</u>	<u>294</u>
P 4 <u>15</u>	<u>420 *</u>	<u>9</u>	<u>352</u>	<u>15</u>	<u>260</u>	<u>9</u>	<u>320</u>
P 5 <u>20</u>	<u>463 *</u>	<u>12</u>	<u>420</u>	<u>20</u>	<u>260</u>	<u>12</u>	<u>350</u>
P 6 <u>25</u>	<u>483 *</u>	<u>15</u>	<u>493</u>	<u>25</u>	<u>260</u>	<u>15</u>	<u>396</u>
P 7 <u>30</u>	<u>283 *</u>	<u>18</u>	<u>570</u>	<u>30</u>	<u>260</u>	<u>18</u>	<u>435</u>
P 8 <u>35</u>	<u>259 *</u>	<u>21</u>	<u>665</u>	<u>35</u>	<u>260</u>	<u>21</u>	<u>478</u>
P 9 <u>40</u>	<u>253 *</u>	<u>24</u>	<u>727</u>	<u>40</u>	<u>260</u>	<u>24</u>	<u>532</u>
P10		<u>27</u>	<u>787</u>	<u>45</u>	<u>260</u>	<u>27</u>	<u>588</u>
P11		<u>30</u>	<u>828</u>			<u>30</u>	<u>635</u>
P12		<u>33</u>	<u>873</u>			<u>33</u>	<u>682</u>
P13		<u>36</u>	<u>905</u>			<u>36</u>	<u>729</u>
P14		<u>39</u>	<u>938</u>			<u>39</u>	<u>768</u>
P15		<u>42</u>	<u>976</u>			<u>42</u>	<u>813</u>
P16		<u>45</u>	<u>1002</u>			<u>45</u>	<u>841</u>
P17		<u>48</u>	<u>1024</u>			<u>48</u>	<u>873</u>
P18		<u>51</u>	<u>1047</u>			<u>51</u>	<u>888</u>
P19		<u>54</u>	<u>1075</u>			<u>54</u>	<u>910</u>
P20							

JK # 15214

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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 15214

OK

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

Elevation \_\_\_\_\_ Formation \_\_\_\_\_ Eff. Pay \_\_\_\_\_ Ft.

District Pratt Date 5-27-82 Customer Order No. \_\_\_\_\_

COMPANY NAME Hummer Corporation

ADDRESS 400 ONE Main Place Wichita, K. 67202

LEASE AND WELL NO. #2 Lyman COUNTY Barber STATE K. ? Sec 28 Twp. 32S Rge. 11W

Mail Invoice To \_\_\_\_\_ Co. Name \_\_\_\_\_ Address \_\_\_\_\_ No. Copies Requested \_\_\_\_\_

Mail Charts To \_\_\_\_\_ Address \_\_\_\_\_ No. Copies Requested \_\_\_\_\_

Formation Test No. 1 Interval Tested From 3670 ft. to 3720 ft. Total Depth 3720 ft.
Packer Depth 3670 ft. Size 6 7/8 in.
Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.
Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3705 ft. Recorder Number 1566 Cap. 4300
Bottom Recorder Depth (Outside) 3709 ft. Recorder Number 3086 Cap. 4500
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_

Drilling Contractor Big H Drill Collar Length 375' I. D. 2.2 in.
Mud Type Starch Viscosity 41 Weight Pipe Length \_\_\_\_\_ I. D. \_\_\_\_\_ in.
Weight 9.4 Water Loss 15.2 cc. Drill Pipe Length 3279' I. D. 3.8 in.
Chlorides 29,000 P.P.M. Test Tool Length 16' ft. Tool Size 5 1/2 in.
Jars: Make \_\_\_\_\_ Serial Number \_\_\_\_\_ Anchor Length 31' 19' 50" 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 in.

Blow: Fair 3 inch slowly building to strong then slightly decreasing then increasing
Fair 3 inch depleting to 2 inches F.P.D.

Recovered 125' ft. of Huy gas cut dslg mud w/ a very few oil specks.
Recovered 240-360 ft. of Huy gas cut & slightly oil cut dslg mud
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_
Recovered 120' ft. of Huy gas cut & slightly oil cut dslg mud
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_ w/ 8% now 30% wtr 62% mud
Remarks: \_\_\_\_\_ w/ 59,000 Chlorides

Tool Slid 5' before opening then steadily slid additional 5' throughout

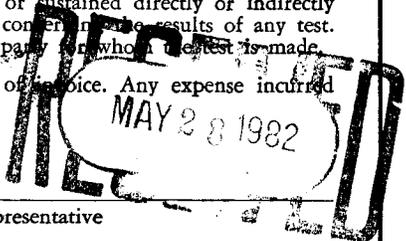
Time On Location 8:30 A.M. Time Pick Up Tool 9:00 P.M. Time Off Location 7:00 A.M.
Time Set Packer(s) 11:45 P.M. Time Started Off Bottom 3:15 P.M. Maximum Temperature 116°
Initial Hydrostatic Pressure (A) 1960 P.S.I.
Initial Flow Period 45 (B) 216 P.S.I. to (C) 248 P.S.I.
Initial Closed In Period 60 (D) 1023 P.S.I.
Final Flow Period 45 (E) 291 P.S.I. to (F) 259 P.S.I.
Final Closed In Period 60 (G) 905 P.S.I.
Final Hydrostatic Pressure (H) 1939 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 Tim Pierce Signature of Customer or his authorized representative

Western Representative Mike Rogers Thank You!



FIELD INVOICE

Table with 2 columns: Item, Amount. Includes Open Hole Test, Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts.

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Pressure Data

Date 5-27 Test Ticket No. 15214  
 Recorder No. 1566 Capacity 4300 Location 3705 Ft  
 Clock No. --- Elevation --- Well Temperature 116 °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1996</u> P.S.I.		<u>11:45 P</u>	
B First Initial Flow Pressure	<u>212</u> P.S.I.	First Flow Pressure	<u>45</u> Mins.	<u>40</u> Mins.
C First Final Flow Pressure	<u>253*</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>54</u> Mins.
D Initial Closed-in Pressure	<u>1075</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>260</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>54</u> Mins.
F Second Final Flow Pressure	<u>260</u> P.S.I.			
G Final Closed-in Pressure	<u>910</u> P.S.I.			
H Final Hydrostatic Mud	<u>1939</u> P.S.I.			

\* Pressures questionable: See Remarks

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>8</u> Inc.		Breakdown: <u>18</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>18</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>212</u>	0	<u>253*</u>	0	<u>260</u>	0	<u>260</u>
P 2 5	<u>207</u>	3	<u>257</u>	5		3	<u>279</u>
P 3 10	<u>Flushed Tool</u>	6	<u>298</u>	10		6	<u>294</u>
P 4 15	<u>420*</u>	9	<u>352</u>	15		9	<u>320</u>
P 5 20	<u>463*</u>	12	<u>420</u>	20		12	<u>350</u>
P 6 25	<u>483*</u>	15	<u>493</u>	25		15	<u>396</u>
P 7 30	<u>283*</u>	18	<u>579</u>	30		18	<u>435</u>
P 8 35	<u>259*</u>	21	<u>665</u>	35		21	<u>478</u>
P 9 40	<u>253*</u>	24	<u>727</u>	40		24	<u>532</u>
P10 45	<u>---</u>	27	<u>787</u>	45	<u>260</u>	27	<u>588</u>
P11 50		30	<u>828</u>	50		30	<u>635</u>
P12 55		33	<u>873</u>	55		33	<u>682</u>
P13 60		36	<u>905</u>	60		36	<u>729</u>
P14		39	<u>938</u>	65		39	<u>768</u>
P15		42	<u>976</u>	70		42	<u>813</u>
P16		45	<u>1002</u>	75		45	<u>841</u>
P17		48	<u>1024</u>	80		48	<u>873</u>
P18		51	<u>1047</u>	85		51	<u>888</u>
P19		54	<u>1075</u>	90		54	<u>910</u>
P20		<u>57</u>				<u>57</u>	
		<u>60</u>				<u>60</u>	