

Company Howell Oil Company, Inc. Lease & Well No. #2 Dusenbury
 Elevation ---- Formation Mississippi Effective Pay -- Ft. Ticket No. 16328
 Date 7/12/82 Sec. 2 Twp. 32S Range 9W County Harper State Kansas
 Test Approved by Lee Poulsen Western Representative Mike Rogers

Formation Test No. 1 Interval Tested from 4326 ft. to 4338 ft. Total Depth 4338 ft.
 Packer Depth 4321 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 4326 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4329 ft. Recorder Number 1566 Cap. 4300
 Bottom Recorder Depth (Outside) 4333 ft. Recorder Number * 3086 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor DaMac Drlg. Rig #1 Drill Collar Length 436 I. D. 2.2 in.
 Mud Type Chemical Viscosity 49 Weight Pipe Length - I. D. - in.
 Weight 9.4 Water Loss 13.6 cc. Drill Pipe Length 3869 I. D. 3.8 in.
 Chlorides 13,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.
 Jars: Make - Serial Number - Anchor Length 12 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: Strong; gas to surface in thirty five minutes (during initial shut-in) . See attached sheet for gas measurements.

Recovered 95 ft. of watery heavy gas cut and oil stained drilling mud with 73% mud; 25% water; 2% oil.
 Recovered 62 ft. of heavy gas cut and slightly oil cut muddy water with 33% mud; 61% water; 6% oil
 Recovered 62 ft. of muddy gassy oil cut drilling mud with 10% mud; 83% water; 7% oil with 43,000 ppm chlorides.
 Recovered ft. of

Remarks: * Read bottom chart.

Time Set Packer(s) 6:00 ~~AM~~ P.M. Time Started Off Bottom 9:00 ~~AM~~ P.M. Maximum Temperature 119°
 Initial Hydrostatic Pressure 2133 P.S.I. (A)
 Initial Flow Period 30 Minutes (B) 57 P.S.I. to (C) 72 P.S.I.
 Initial Closed In Period 27 Minutes (D) 1321 P.S.I.
 Final Flow Period 60 Minutes (E) 49 P.S.I. to (F) 83 P.S.I.
 Final Closed In Period 54 Minutes (G) 1338 P.S.I.
 Final Hydrostatic Pressure 2133 P.S.I. (H)

GAS FLOW REPORT

Date 7/12/82 Ticket 16328 Company Howell Oil Company, Inc.
 Well Name and No. Dusenbury #2 Dst No. 1 Interval Tested 4326'-4338'
 County Harper State Kansas Sec. 2 Twp. 32S Rg. 9W

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
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PRE FLOW

35 min.	3.0 PSIG	3/4" orifice			133,000 CFPD
					Gas to surface in thirty-five minutes (During initial shut-in period!)

SECOND FLOW

5 min.	35.0 PSIG	1/4" orifice			69,000 CFPD
10 min.	6.5 PSIG	1/4" orifice			23,900 CFPD
20 min.	10.0 PSIG	1/4" orifice			30,800 CFPD
30 min.	13.0 PSIG	1/4" orifice			35,900 CFPD
40 min.	15.0 PSIG	1/4" orifice			39,200 CFPD
50 min.	18.0 PSIG	1/4" orifice			43,900 CFPD
60 min.	19.0 PSIG	1/4" orifice			45,500 CFPD

GAS BOTTLE

Serial No. _____ Date Bottle Filled --- Date to be Invoiced 7/12/82

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 piug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1½% 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 Howell Oil Company, Inc.
 Authorized by Lee Poulsen

WESTERN TESTING CO., INC.

Pressure Data

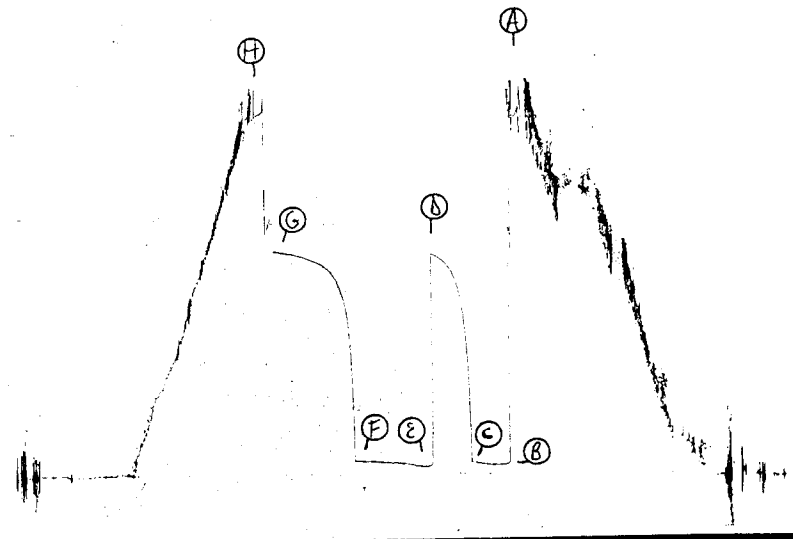
Date 7/12/82 Test Ticket No. 16328
 Recorder No. 3086 Capacity 4500 Location 4333 Ft.
 Clock No. --- Elevation --- Well Temperature 119 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2133	P.S.I.	6:00P	M
B First Initial Flow Pressure	57	P.S.I.	30	Mins. 30
C First Final Flow Pressure	72	P.S.I.	30	Mins. 27
D Initial Closed-in Pressure	1321	P.S.I.	60	Mins. 60
E Second Initial Flow Pressure	49	P.S.I.	60	Mins. 54
F Second Final Flow Pressure	83	P.S.I.		
G Final Closed-in Pressure	1338	P.S.I.		
H Final Hydrostatic Mud	2133	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>12</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	0	72	0	49	0	83
P 2	5	3	918	5	49	3	1012
P 3	10	6	1077	10	52	6	1107
P 4	15	9	1162	15	61	9	1165
P 5	20	12	1218	20	69	12	1202
P 6	25	15	1253	25	71	15	1232
P 7	30	18	1297	30	72	18	1253
P 8		21	1313	35	73	21	1267
P 9		24	1321	40	75	24	1278
P10		27		45	77	27	1287
P11				50	79	30	1295
P12				55	81	33	1303
P13				60	83	36	1313
P14						39	1321
P15						42	1324
P16						45	1328
P17						48	1331
P18						51	1335
P19						54	1338
P20							

TKT. #. 16328





WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 16328

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

Elevation _____ Formation Mass. Eff. Pay _____ Ft.

District Pratt Date 7-12-62 Customer Order No. _____
COMPANY NAME Howell Oil Company, Inc. Washington Center
ADDRESS P.O. Box # 2091 Hutchinson, Mo. 67501
LEASE AND WELL NO. Dusenbury #1 COUNTY Halper STATE Ks. Sec. 2 Twp. 32 Rge. 9
Mail Invoice To #2 DUSENBURY No. Copies Requested _____
Co. Name _____ Address _____
Mail Charts To _____ No. Copies Requested _____
Address _____

Formation Test No. 1 Interval Tested From 4326 ft. to 4338 ft. Total Depth 4338 ft.
Packer Depth 4321 ft. Size 6 5/8 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 4326 ft. Size 6 5/8 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4329 ft. Recorder Number 1566 Cap. 4300
Bottom Recorder Depth (Outside) 4333 ft. Recorder Number 3086 Cap. 4500
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____

Drilling Contractor Damac Rig 1 Drill Collar Length 436' I. D. 2.2 in.
Mud Type Chemical Viscosity 49 Weight Pipe Length _____ I. D. _____ in.
Weight 9.4 Water Loss 13.6 cc. Drill Pipe Length 3869' I. D. 3.8 in.
Chlorides 13,000 P.P.M. Test Tool Length 21' ft. Tool Size 5 1/2 in.
Jars: Make _____ Serial Number _____ Anchor Length 12' 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: STRONG - Gas to Surface in 25 min. (During I.S.I. See attached sheet for gas measurements.)

Recovered 95' ft. of Watery Hoy gas cut & oil, stained Drl mud
Recovered _____ ft. of _____
Recovered 62' ft. of Hoy gas cut & oil slightly muddy wtr
Recovered _____ ft. of _____
Recovered 62' ft. of muddy gassy oil cut Drl mud
Remarks: _____ w/ 33% mud 61% wtr 6% oil
w/ 10% mud 83% wtr 7% oil
w/ 43,000 ppm Chlorides

Read Bottom Chart!

Time On Location 3:00 A.M. Time Pick Up Tool 4:00 A.M. Time Off Location 1:30 A.M.
Time Set Packer(s) 6:00 P.M. Time Started Off Bottom 9:00 P.M. Maximum Temperature 119°
Initial Hydrostatic Pressure (A) 2348 P.S.I.
Initial Flow Period (B) 30 Minutes (C) 47 P.S.I. to (D) 59 P.S.I.
Initial Closed In Period (E) 30 Minutes (F) 1322 P.S.I.
Final Flow Period (G) 60 Minutes (H) 35 P.S.I. to (I) 71 P.S.I.
Final Closed In Period (J) 60 Minutes (K) 1322 P.S.I.
Final Hydrostatic Pressure (L) 2325 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.

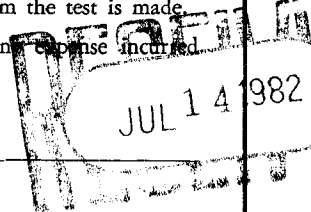
All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

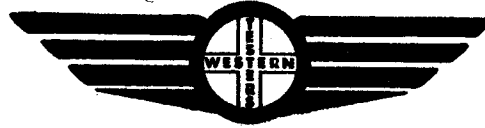
Test Approved By Lee Pouchan
Signature of Customer or his authorized representative

Western Representative Mike Rogus Thank You!

FIELD INVOICE

Open Hole Test \$ 1675
Miscrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage 55 \$
Fluid Sampler \$





GAS FLOW REPORT

Nº 3289

Date 7-12-82 Ticket 16328 Company Howell Oil
 Well Name and No. Dusenburg #1 Dst No. 1 Interval Tested 4326-4338
 County Harper State K. Sec. 2 Twp. 32 Rg. 9

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
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PRE FLOW

<u>35</u>	<u>03</u>	<u>3/4</u>			<u>PR 133,000 C.F.D.</u>
					<u>gas-to-surface in 35 min.</u>
					<u>(During Initial Shut In period!)</u>

SECOND FLOW

	<u>PSI</u>	<u>1/4</u>			
<u>05</u>	<u>35</u>			<u>OK</u>	<u>69,000 C.F.D</u>
<u>10</u>	<u>6.5</u>			<u>OK</u>	<u>23,900 "</u>
<u>20</u>	<u>10</u>			<u>OK</u>	<u>30,800 "</u>
<u>30</u>	<u>13</u>			<u>OK</u>	<u>35,900 "</u>
<u>40</u>	<u>15</u>			<u>OK</u>	<u>39,200 "</u>
<u>50</u>	<u>18</u>			<u>OK</u>	<u>43,900 "</u>
<u>60</u>	<u>19</u>			<u>OK</u>	<u>45,500 "</u>

GAS BOTTLE

Serial No. _____ Date Bottle Filled _____ Date to be Invoiced _____

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 1 1/2% 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 _____

Authorized by _____

WESTERN TESTING CO., INC.

Pressure Data

Date 7-12 Test Ticket No. 16328
 Recorder No. 3086 Capacity 4500 Location 4333 Ft
 Clock No. --- Elevation --- Well Temperature 119 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2133</u> P.S.I.	<u>6:00 P</u> M	
B First Initial Flow Pressure	<u>57</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>72</u> P.S.I.	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>1321</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>49</u> P.S.I.	<u>60</u> Mins.	<u>54</u> Mins.
F Second Final Flow Pressure	<u>83</u> P.S.I.		
G Final Closed-in Pressure	<u>1338</u> P.S.I.		
H Final Hydrostatic Mud	<u>2133</u> 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: 9 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 12 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 18 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	57	0	72	0	49	0	83
P 2 5	57	3	918	5	49	3	1012
P 3 10	57	6	1077	10	52	6	1107
P 4 15	59	9	1162	15	61	9	1165
P 5 20	63	12	1218	20	69	12	1202
P 6 25	70	15	1253	25	71	15	1232
P 7 30	72	18	1279	30	72	18	1253
P 8 35		21	1297	35	73	21	1267
P 9 40		24	1313	40	75	24	1278
P10 45		27	1321	45	77	27	1287
P11 50		30		50	79	30	1295
P12 55		33		55	81	33	1303
P13 60		36		60	83	36	1313
P14		39		65		39	1321
P15		42		70		42	1324
P16		45		75		45	1328
P17		48		80		48	1331
P18		51		85		51	1335
P19		54		90		54	1338
P20		57				57	
		60				60	