WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET Nº 3259

P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

Elevation 1193 KB Formation Tarkio Sand Eff. Pay ____ Ft.

District Augusta Date 16 August 79 Customer Order No. ____

COMPANY NAME Hummon Oil Company

ADDRESS One Main Place, Suite 400 Wichita, KS 67202

LEASE AND WELL NO. Hartman #1 COUNTY Sumner STATE Kans. Sec. 24 Twp. 32S Rge. 4W

Mail Invoice To Same No. Copies Requested 1
Co. Name Address

Mail Charts To Same No. Copies Requested 25
Address

Formation Test No. 1 Interval Tested from 1650 ft. to 1872 ft. Total Depth 1944 ft.

Packer Depth 1650 ft.	Size 6 3/4 in.	Packer Depth — ft.	Size — in.
Packer Depth 1872 ft.	Size 6 3/4 in.	Packer Depth — ft.	Size — in.

Depth of Selective Zone Set — 1874

Top Recorder Depth (Inside)	1665 ft.	Recorder Number 1559	Cap. 4200
Bottom Recorder Depth (Outside)	1668 ft.	Recorder Number 1538	Cap. 4200
Below Straddle Recorder Depth	1879 ft.	Recorder Number 1561	Cap. 3150

Drilling Contractor Red Tiger #1		Drill Collar Length	I. D. in.
Mud Type Premix Imperm	Viscosity 50	Weight Pipe Length	I. D. in.
Weight 10.3	Water Loss 12.8 cc.	Drill Pipe Length	I. D. in.
Chlorides 30,000 P.P.M.		Test Tool Length ft.	Tool Size in.
Jars: Make —	Serial Number —	Anchor Length ft.	Size in.
Did Well Flow? NO	Reversed Out NO	Surface Choke Size in.	Bottom Choke Size in.
		Main Hole Size in.	Tool Joint Size in.

Blow: ____

Recovered ____ ft. of ____
Recovered ____ ft. of Mis Run
Recovered ____ ft. of ____
Recovered ____ ft. of ____
Recovered ____ ft. of ____

Remarks: unable to get to Bottom or selective zone due to ledge

Time Set Packer(s) ____ A.M. P.M. Time Started Off Bottom ____ A.M. P.M. Maximum Temperature ____

Initial Hydrostatic Pressure		(A)	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)	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 Michael S Mitchell
Signature of Customer or his authorized representative

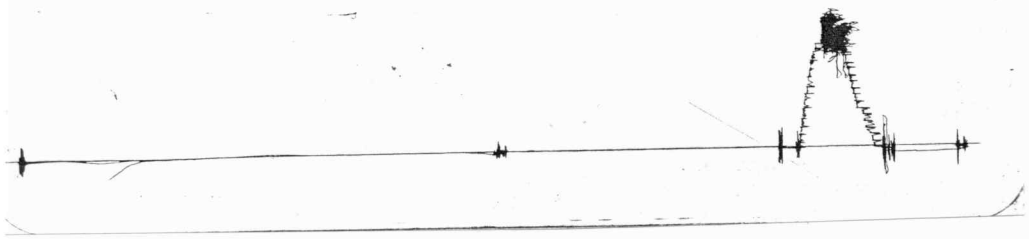
Western Representative WK Hazen Thank You!

FIELD INVOICE

Open Hole Test	$ ~~225~~
Misrun	$ 225.00
Straddle Test	$ 250.00
Jars	$
Selective Zone	$ 225.00
Safety Joint	$
Standby	$
Evaluation	$
Extra Packer	$
Circ. Sub.	$
Mileage	$
Fluid Sampler	$
Extra Charts	$
TOTAL	$ 700.00 OK

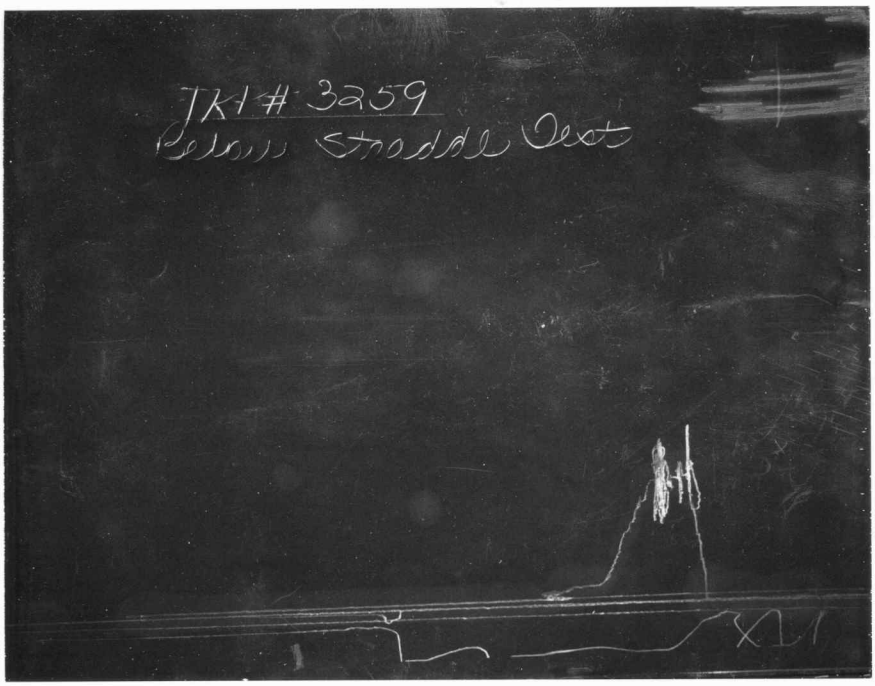
IK+#3259

I.



TK #3259
Below Straddle Test




JK1 # 3259
Below Shoddle Dist

Company: Hummon Oil Company — Lease & Well No.: Hartman #1

Elevation: 1193 Kelly Bushing — Formation: Tarkio Sand — Effective Pay: -- Ft. — Ticket No.: 3259

Date: 8/16/79 — Sec.: 24 — Twp.: 32S — Range: 4W — County: Sumner — State: Kansas

Test Approved by: Michael S. Mitchell — Western Representative: W. K. Hager

Formation Test No.: 1 — Interval Tested from: 1650 ft. to: 1872 ft. — Total Depth: 3944 ft.

Packer Depth: 1650 ft. — Size: 6 3/4 in. — Packer Depth: - ft. — Size: - in.

Packer Depth: 1872 ft. — Size: 6 3/4 in. — Packer Depth: - ft. — Size: - in.

Depth of Selective Zone Set: 1874

Top Recorder Depth (Inside): 1665 ft. — Recorder Number: 1559 — Cap.: 4200

Bottom Recorder Depth (Outside): 1668 ft. — Recorder Number: 1558 — Cap.: 4200

Below Straddle Recorder Depth: 1879 ft. — Recorder Number: 1561 — Cap.: 3150

Drilling Contractor: Red Tiger Drilling #1 — Drill Collar Length: — I. D.: in.

Mud Type: premix-Impermix — Viscosity: 50 — Weight Pipe Length: — I. D.: in.

Weight: 10.3 — Water Loss: 12.8 cc. — Drill Pipe Length: — I. D.: in.

Chlorides: 30,000 P.P.M. — Test Tool Length: ft. — Tool Size: in.

Jars: Make: -- — Serial Number: -- — Anchor Length: ft. — Size: in.

Did Well Flow?: No — Reversed Out: No — Surface Choke Size: in. — Bottom Choke Size: in.

Main Hole Size: in. — Tool Joint Size: in.

Blow:

Recovered ft. of

Recovered ft. of

Recovered ft. of MISRUN

Recovered ft. of

Recovered ft. of

Remarks: UNABLE TO GET TO BOTTOM OR SELECTIVE ZONE DUE TO BRIDGE.

Time Set Packer(s): A.M. P.M. — Time Started Off Bottom: A.M. P.M. — Maximum Temperature:

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

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET Nº 3260

P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

Elevation 1193 KB Formation Tarkio Sand Eff. Pay Ft.

District Augusta Date 16 August 79 Customer Order No.

COMPANY NAME Hummon Oil Company

ADDRESS One Main Place, Suite 400 Wichita, Ks 67202

LEASE AND WELL NO. Hartman #1 COUNTY Sumner STATE Kan Sec. 24 Twp. 32S Rge. 4W

Mail Invoice To Same No. Copies Requested 1
Co. Name Address

Mail Charts To Same No. Copies Requested 5
Address

Formation Test No. 2 Interval Tested from 1648 ft. to 1870 ft. Total Depth 3955 ft.

Packer Depth 1648 ft.	Size 6 3/4 in.	Packer Depth — ft.	Size — in.
Packer Depth 1870 ft.	Size 6 3/4 in.	Packer Depth — ft.	Size — in.

Depth of Selective Zone Set 1892

Top Recorder Depth (Inside)	1663 ft.	Recorder Number 1559	Cap. 4200
Bottom Recorder Depth (Outside)	1666 ft.	Recorder Number 1558	Cap. 4200
Below Straddle Recorder Depth	1882 ft.	Recorder Number 1561	Cap. 3150

Drilling Contractor Red Tiger #1		Drill Collar Length —	I. D. — in.
Mud Type Chemix - Unopened	Viscosity 50	Weight Pipe Length 840'	I. D. 2 1/4 " in.
Weight 10.3	Water Loss 12.8 cc.	Drill Pipe Length 544'	I. D. 3.8 " in.
Chlorides 30,000	P.P.M.	Test Tool Length 264' ft.	Tool Size 5 1/2 in.
Jars: Make —	Serial Number —	Anchor Length 222' 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 / strong blow decreasing to fair blow on final flow period

Recovered 185 ft. of mud
Recovered 180 ft. of slightly gassy muddy water
Recovered ft. of
Recovered ft. of
Recovered ft. of
Remarks:

Time Set Packer(s)	9:10 P.M.	Time Started Off Bottom	11:55 P.M.		Maximum Temperature	97°
Initial Hydrostatic Pressure		(A)	897 P.S.I.			
Initial Flow Period	Minutes 45	(B)	52 P.S.I.	to (C)	125	P.S.I.
Initial Closed In Period	Minutes 45	(D)	720 P.S.I.			
Final Flow Period	Minutes 45	(E)	188 P.S.I.	to (F)	219	P.S.I.
Final Closed In Period	Minutes 30	(G)	678 P.S.I.			
Final Hydrostatic Pressure		(H)	897 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 Michael R Mitchell
Signature of Customer or his authorized representative

Western Representative WK Hager Thank You!

FIELD INVOICE

Open Hole Test	$440.00
Misrun	$
Straddle Test	$250.00
Jars	$
Selective Zone	$225.00
Safety Joint	$
Standby	$
Evaluation	$
Extra Packer	$
Circ. Sub.	$
Mileage	$
Fluid Sampler	$
Extra Charts	$
TOTAL	$915.00 OK

WESTERN TESTING CO., INC.
Pressure Data

Date 8-16-79 Test Ticket No. 3260

Recorder No. 1559 Capacity 4200 Location 1663 Ft.

Clock No. — Elevation 1193 K.B. Well Temperature 97 °F

Point	Pressure		Time Given		Time Computed	
Initial Hydrostatic Mud	904	P.S.I.	Open Tool	9:10 P M		
First Initial Flow Pressure	54	P.S.I.	First Flow Pressure	45 Mins.	45	Mins.
First Final Flow Pressure	122	P.S.I.	Initial Closed-in Pressure	45 Mins.	48	Mins.
Initial Closed-in Pressure	716	P.S.I.	Second Flow Pressure	45 Mins.	40	Mins.
Second Initial Flow Pressure	186	P.S.I.	Final Closed-in Pressure	30 Mins.	33	Mins.
Second Final Flow Pressure	207	P.S.I.				
Final Closed-in Pressure	674	P.S.I.				
Final Hydrostatic Mud	896	P.S.I.				

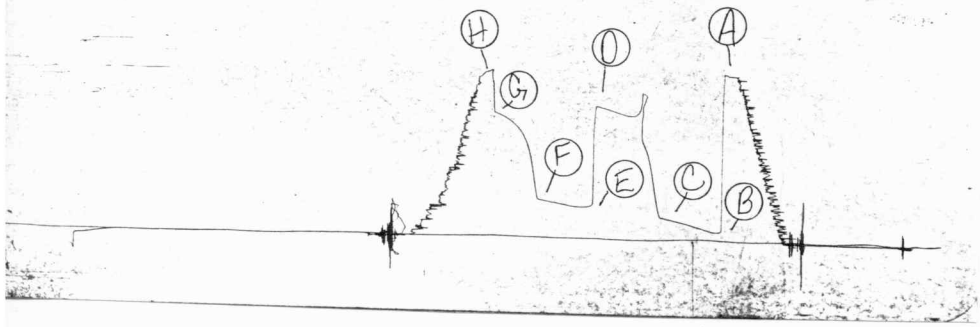
PRESSURE BREAKDOWN

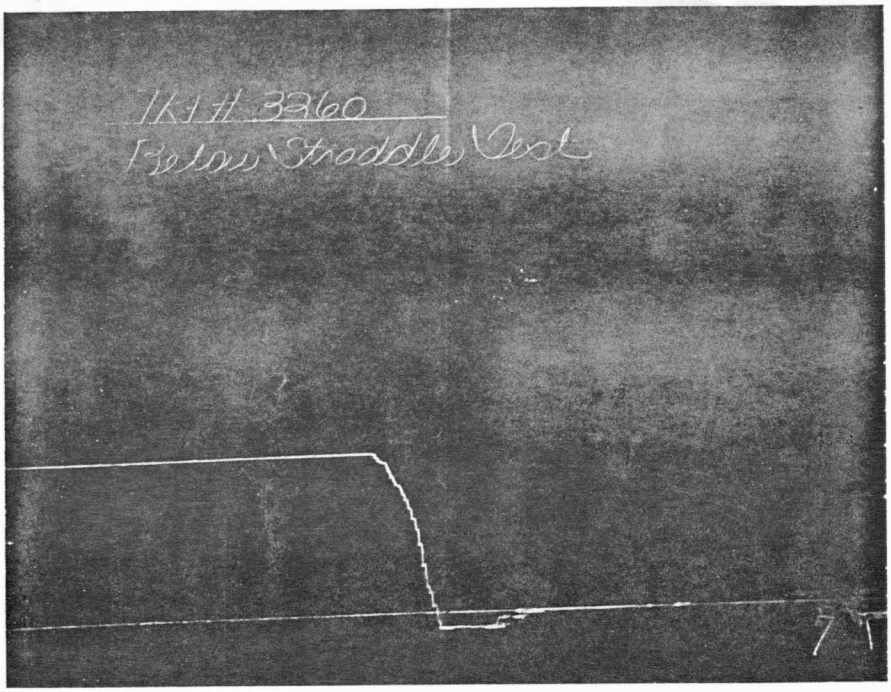
First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 9 Inc.		Breakdown: 16 Inc.		Breakdown: 8 Inc.		Breakdown: 11 Inc.	
of 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 mins. and a	
final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.	
Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
0	54	0	122	0	186	0	207
5	47	3	183	5	169	3	286
10	56	6	291	10	167	6	401
15	70	9	401	15	171	9	487
20	82	12	481	20	182	12	544
25	86	15	531	25	187	15	581
30	100	18	693	30	196	18	608
35	109	21	668	35	203	21	627
40	116	24	666	40	207	24	641
45	122	27	671	45		27	654
50		30	677	50		30	664
55		33	684	55		33	674
60		36	691	60		36	
		39	699	65		39	
		42	704	70		42	
		45	710	75		45	
		48	716	80		48	
		51		85		51	
		54		90		54	
		57				57	
		60				60	

WTC - 4

501

TR#3260
I-




IKI # 3360
Below Straddle Test

Company: Hummon Oil Company — Lease & Well No.: Hartman #1

Elevation: 1193 Kelly Bushing — Formation: Tarkio Sand — Effective Pay: -- Ft. — Ticket No.: 3260

Date: 8/16/79 — Sec.: 24 — Twp.: 32S — Range: 4W — County: Sumner — State: Kansas

Test Approved by: Michael Mitchell — Western Representative: W. K. Hager

Formation Test No.: 2 — Interval Tested from: 1648 ft. to: 1870 ft. — Total Depth: 3955 ft.

Packer Depth: 1648 ft. — Size: 6 3/4 in. — Packer Depth: - ft. — Size: - in.

Packer Depth: 1870 ft. — Size: 6 3/4 in. — Packer Depth: - ft. — Size: - in.

Depth of Selective Zone Set: 1892

Top Recorder Depth (Inside): 1663 ft. — Recorder Number: 1559 — Cap.: 4200

Bottom Recorder Depth (Outside): 1666 ft. — Recorder Number: 1558 — Cap.: 4200

Below Straddle Recorder Depth: 1882 ft. — Recorder Number: 1561 — Cap.: 3150

Drilling Contractor: Red Tiger Drilling #1 — Drill Collar Length: - — I. D.: - in.

Mud Type: premix-Impermix — Viscosity: 50 — Weight Pipe Length: 840 — I. D.: 2¼ in.

Weight: 10.3 — Water Loss: 12.8 cc. — Drill Pipe Length: 544 — I. D.: 3.8 in.

Chlorides: 30,000 P.P.M. — Test Tool Length: 264 ft. — Tool Size: 5½ in.

Jars: Make: -- — Serial Number: -- — Anchor Length: 222 ft. — Size: 5½ 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: 4½FH in.

Blow: Strong blow on initial flow period/strong blow decreasing to fair blow on final flow period.

Recovered: 185 ft. of mud

Recovered: 180 ft. of slightly gassy muddy water

Recovered: ft. of

Recovered: ft. of

Recovered: ft. of

Remarks:

Time Set Packer(s): 9:10 ~~A.M.~~ P.M. — Time Started Off Bottom: 11:55 ~~A.M.~~ P.M. — Maximum Temperature: 97

Initial Hydrostatic Pressure		(A) 904	P.S.I.	
Initial Flow Period	Minutes 45	(B) 54 P.S.I.	to (C) 122	P.S.I.
Initial Closed In Period	Minutes 48	(D) 716	P.S.I.	
Final Flow Period	Minutes 40	(E) 186 P.S.I.	to (F) 207	P.S.I.
Final Closed In Period	Minutes 33	(G) 674	P.S.I.	
Final Hydrostatic Pressure		(H) 896	P.S.I.	

WESTERN TESTING CO., INC.
Pressure Data

Date 8/16/79 Test Ticket No. 3260

Recorder No. 1559 Capacity 4200 Location 1664 Ft.

Clock No. -- Elevation 1193 Kelly Bushing Well Temperature 97 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	904 P.S.I.	Open Tool	9:10P M	
B First Initial Flow Pressure	54 P.S.I.	First Flow Pressure	45 Mins.	45 Mins.
C First Final Flow Pressure	122 P.S.I.	Initial Closed-in Pressure	45 Mins.	48 Mins.
D Initial Closed-in Pressure	716 P.S.I.	Second Flow Pressure	45 Mins.	40 Mins.
E Second Initial Flow Pressure	186 P.S.I.	Final Closed-in Pressure	30 Mins.	33 Mins.
F Second Final Flow Pressure	207 P.S.I.			
G Final Closed-in Pressure	674 P.S.I.			
H Final Hydrostatic Mud	896 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 9 Inc. of 5 mins. and a final inc. of 0 Min.

Point Mins.	Press.
P 1 0	54
P 2 5	47
P 3 10	56
P 4 15	70
P 5 20	82
P 6 25	86
P 7 30	100
P 8 35	109
P 9 40	116
P10 45	122
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 16 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	122
3	183
6	291
9	401
12	481
15	531
18	693
21	668
24	666
27	671
30	677
33	684
36	691
39	699
42	704
45	710
48	716

Second Flow Pressure
Breakdown: 8 Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	186
5	169
10	167
15	171
20	182
25	187
30	196
35	203
40	207

Final Shut-In
Breakdown: 11 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	207
3	286
6	401
9	487
12	544
15	581
18	608
21	627
24	641
27	654
30	664
33	674

WTC - 4