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

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET Nº 5396

Elevation _____ Formation Mississippi Eff. Pay _____ Ft.

District Pratt Date 7-31-80 Customer Order No. _____

COMPANY NAME Robinson Oil Co.

ADDRESS Wichita KS 737 R.H. Garvey Bldg.

LEASE AND WELL NO. Achenbach "C"-1 COUNTY Barber STATE KS Sec. 1 Twp 35s Rge 12w

Mail Invoice To Same (Co. Name) Address No. Copies Requested Reg

Mail Charts To Same Address No. Copies Requested Reg

Formation Test No. 1 Interval Tested from 4812 ft. to 4828 ft. Total Depth 4828 ft.

Packer Depth 4807 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 4812 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4815 ft. Recorder Number 5673 Cap. 5400

Bottom Recorder Depth (Outside) 4818 ft. Recorder Number 1565 Cap. 4900

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

Drilling Contractor Sweetman Drlg Rig #1 Drill Collar Length 270 I. D. 2.2 in.

Mud Type Premix Viscosity 50 Weight Pipe Length — I. D. — in.

Weight 9.2 Water Loss 9.0 cc. Drill Pipe Length 4522 I. D. 3.8 in.

Chlorides — P.P.M. Test Tool Length 20 ft. Tool Size 5½ OD in.

Jars: Make — Serial Number — Anchor Length 16 ft. Size 5½ OD in.

Did Well Flow? NO Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Cas to Surface in Main Hole Size 7 7/8 in. Tool Joint Size 4½ FH in.

Blow: Strong blow GTS 4 min - See gas flow Report

Recovered 2 ft. of Drilling Mud

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

RECEIVED AUG 1 - 1980 WICHITA

on location 3:30 Am. off 2:00 pm

Time Set Packer(s) 6:38 A.M. P.M. Time Started Off Bottom 10:53 A.M. P.M. Maximum Temperature 149

Initial Hydrostatic Pressure			(A)	2543	P.S.I.	
Initial Flow Period	Minutes	45	(B)	13	P.S.I. to (C)	13 P.S.I.
Initial Closed In Period	Minutes	60	(D)	1471	P.S.I.	
Final Flow Period	Minutes	60	(E)	5	P.S.I. to (F)	5 P.S.I.
Final Closed In Period	Minutes	90	(G)	1214	P.S.I.	
Final Hydrostatic Pressure			(H)	2516	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 Gordan W Keen Gordan W. Keen
Signature of Customer or his authorized representative

Western Representative Jeff Piotrowski T Pankyan

FIELD INVOICE

Open Hole Test	$ 600 00
Misrun	$ _____
Straddle Test	$ _____
Jars	$ _____
Selective Zone	$ _____
Safety Joint	$ _____
Standby	$ _____
Evaluation	$ _____
Extra Packer	$ _____
Circ. Sub.	$ _____
Mileage 51	$ 38 25
Fluid Sampler	$ _____
Extra Charts	$ _____
TOTAL	$ 638 25

Phone 316 838-0601

WESTERN TESTERS

P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

No. 1791

Date 7-31-80 Ticket 5396 Company Robinson Oil Co

Well Name and No. Achenbach "C" #1 Dst No. 1 Interval Tested 4812-4828

County Barber State KS Sec. 1 Twp. 35S Rg. 12W

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
	PRE FLOW				
	Inches of water		@ 15 # Mcfm.		
10	30 "	1¼			241,000 cfpd
20	13 "	"		OK	158,000 "
30	11 "	"			145,000 "
40	10 "	"			138,000 "
	SECOND FLOW				
	Inches of water				
10	13 "	1¼			158,000 cfpd.
20	15 "	¾			55,200 "
30	15 "	"		OK	"
40	15 "	"			"
50	15 "	"			"
60	15 "	"			"

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% per month, equal to 12% 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 _____ (listed)

FORM WTC 9

WESTERN TESTING CO., INC.
Pressure Data

Date 7-31 Test Ticket No. 5396

Recorder No. 5673 Capacity 5400 Location 4815 Ft.

Clock No. — Elevation — Well Temperature 149 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2529	P.S.I.	Open Tool	6:38 AM	
B	First Initial Flow Pressure	68	P.S.I.	First Flow Pressure	45 Mins.	45 Mins.
C	First Final Flow Pressure	13	P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D	Initial Closed-in Pressure	1470	P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	24	P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F	Second Final Flow Pressure	3	P.S.I.			
G	Final Closed-in Pressure	1218	P.S.I.			
H	Final Hydrostatic Mud	2510	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	68
P 2	5	35
P 3	10	19
P 4	15	13
P 5	20	
P 6	25	
P 7	30	
P 8	35	
P 9	40	
P10	45	13
P11	50	
P12	55	
P13	60	
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 20 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	13
3	423
6	587
9	716
12	842
15	926
18	1016
21	1092
24	1146
27	1211
30	1246
33	1289
36	1324
39	1354
42	1376
45	1397
48	1416
51	1430
54	1446
57	1457
60	1470

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

Point Minutes	Press.
0	24
5	8
10	3
15	
20	
25	
30	
35	
40	
45	
50	
55	
60	3
65	
70	
75	
80	
85	
90	

Final Shut-In
Breakdown: 30 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	3
3	230
6	355
9	456
12	546
15	628
18	694
21	751
24	808
27	858
30	904
33	937
36	975
39	997
42	1024
45	1046
48	1067
51	1086
54	1100
57	1116
60	1132

Cont

WESTERN TESTING CO., INC.
Pressure Data

Date _____ Test Ticket No. 5396

Recorder No. _____ Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	P.S.I.	Open Tool	M	
B First Initial Flow Pressure	P.S.I.	First Flow Pressure	Mins.	Mins.
C First Final Flow Pressure	P.S.I.	Initial Closed-in Pressure	Mins.	Mins.
D Initial Closed-in Pressure	P.S.I.	Second Flow Pressure	Mins.	Mins.
E Second Initial Flow Pressure	P.S.I.	Final Closed-in Pressure	Mins.	Mins.
F Second Final Flow Pressure	P.S.I.			
G Final Closed-in Pressure	P.S.I.			
H Final Hydrostatic Mud	P.S.I.			

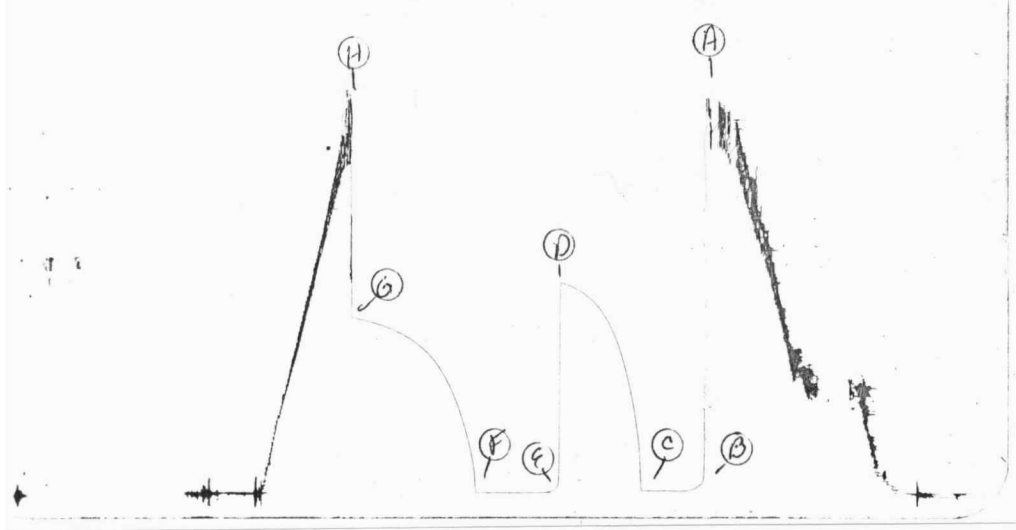
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: ____ Inc.		Breakdown: ____ Inc.		Breakdown: ____ Inc.		Breakdown: ____ 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 Mins.	**Press.**	**Point Minutes**	**Press.**	**Point Minutes**	**Press.**	**Point Minutes**	**Press.**
P 1		63				63	1145 ~~1202~~
P 2		66				66	1154
P 3		69				69	1164
P 4		72				72	1176
P 5		75				75	1184
P 6		78				78	1195
P 7		81				81	1203
P 8		84				84	1208
P 9		87				87	1214
P10		90				90	1218
P11		93				93	
P12		96				96	
P13		99				99	
P14		102				102	
P15		105				105	
P16		108				108	
P17		111				111	
P18		114				114	
P19		117				117	
P20		120				120	

WTC - 4

5673
DST #1

JH #5396
J



Company Robinson Oil Company — Lease & Well No. Achenbach "C"#1

Elevation ----- Formation Mississippi — Effective Pay ---- Ft. — Ticket No. 5396

Date 7/31/80 — Sec. 1 — Twp. 35S — Range 12W — County Barber — State Kansas

Test Approved by Gordon W. Keen — Western Representative Jeff Piotrowski

Formation Test No. 1 — Interval Tested from 4812 ft. to 4828 ft. — Total Depth 4828 ft.

Packer Depth 4807 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Packer Depth 4812 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4815 ft. — Recorder Number 5673 — Cap. 5400

Bottom Recorder Depth (Outside) 4818 ft. — Recorder Number 1565 — Cap. 4900

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

Drilling Contractor Sweetman Drilling Rig #1 — Drill Collar Length 270 — I. D. 2.2 in.

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

Weight 9.2 — Water Loss 9.0 cc. — Drill Pipe Length 4522 — I. D. 3.8 in.

Chlorides -- P.P.M. — Test Tool Length 20 ft. — Tool Size 5½OD in.

Jars: Make -- — Serial Number -- — Anchor Length 16 ft. — Size 5½OD 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. Gas to surface in four minutes. See attached sheet for gas measurements.

Recovered 2 ft. of drilling mud

Recovered ____ ft. of

Recovered ____ ft. of

Recovered ____ ft. of

Recovered ____ ft. of

Remarks:

Time Set Packer(s) 6:38 A.M. P.M. — Time Started Off Bottom 10:53 A.M. ~~P.M.~~ — Maximum Temperature 149°

Initial Hydrostatic Pressure			(A)	2529	P.S.I.	
Initial Flow Period	Minutes 45	(B)	68	P.S.I. to (C)	13	P.S.I.
Initial Closed In Period	Minutes 60	(D)	1470	P.S.I.		
Final Flow Period	Minutes 60	(E)	24	P.S.I. to (F)	3	P.S.I.
Final Closed In Period	Minutes 90	(G)	1218	P.S.I.		
Final Hydrostatic Pressure		(H)	2510	P.S.I.		

GAS FLOW REPORT

Date 7/31/80 Ticket 5396 Company Robinson Oil Company

Well Name and No. Achenbach "C"#1 Dst No. 1 Interval Tested 4812'-4828'

County Barber State Kansas Sec. 1 Twp. 35S Rg. 12W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
Gas to surface in four minutes.			**PRE FLOW**			
	10 min.	30" of water		1¼" orifice		241,000 CFPD
	20 min.	13" of water		1¼" orifice		158,000 CFPD
	30 min.	11" of water		1¼" orifice		145,000 CFPD
	40 min.	10" of water		1¼" orifice		138,000 CFPD
			SECOND FLOW			
	10 min.	13" of water		1¼" orifice		158,000 CFPD
	20 min.	15" of water		3/4" orifice		55,200 CFPD
	30 min.	15" of water		3/4" orifice		55,200 CFPD
	40 min.	15" of water		3/4" orifice		55,200 CFPD
	50 min.	15" of water		3/4" orifice		55,200 CFPD
	60 min.	15" of water		3/4" orifice		55,200 CFPD

GAS BOTTLE

Serial No. --0-- Date Bottle Filled --0-- Date to be Invoiced 7/31/80

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 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 Robinson Oil Company

Authorized by Gordon W. Keen

FORM WTC 6

WESTERN TESTING CO., INC.
Pressure Data

Date 7-31-80 Test Ticket No. 5396

Recorder No. 5673 Capacity 5400 Location 4815 Ft.

Clock No. ------- Elevation ------- Well Temperature 149 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2529 P.S.I.		Open Tool	6:38 A M	
B	First Initial Flow Pressure	68 P.S.I.		First Flow Pressure	45 Mins.	45 Mins.
C	First Final Flow Pressure	13 P.S.I.		Initial Closed-in Pressure	60 Mins.	60 Mins.
D	Initial Closed-in Pressure	1470 P.S.I.		Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	24 P.S.I.		Final Closed-in Pressure	90 Mins.	90 Mins.
F	Second Final Flow Pressure	3 P.S.I.				
G	Final Closed-in Pressure	1218 P.S.I.				
H	Final Hydrostatic Mud	2510 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	68
P 2	5	35
P 3	10	19
P 4	15	13
P 5	20	13
P 6	25	13
P 7	30	13
P 8	35	13
P 9	40	13
P10	45	13
P11		
P12		
P13		
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	13
3	423
6	587
9	716
12	842
15	926
18	1016
21	1092
24	1146
27	1211
30	1246
33	1289
36	1324
39	1354
42	1376
45	1397
48	1416
51	1430
54	1446
57	1457
60	1470

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

Point Minutes	Press.
0	24
5	8
10	3
15	3
20	3
25	3
30	3
35	3
40	3
45	3
50	3
55	3
60	3

Final Shut-In
Breakdown: 30 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	3
3	230
6	355
9	456
12	546
15	628
18	694
21	751
24	808
27	858
30	904
33	937
36	975
39	997
42	1024
45	1046
48	1067
51	1086
54	1100
57	1116
60	1132

Continued on next page

WESTERN TESTING CO., INC.
Pressure Data

Date 7-31-80 Test Ticket No. 5396

Recorder No. 5673 Capacity 5400 Location 4815 Ft

Clock No. ------- Elevation ------- Well Temperature 149 °F

Point		Pressure	
A	Initial Hydrostatic Mud	2529	P.S.I.
B	First Initial Flow Pressure	68	P.S.I.
C	First Final Flow Pressure	13	P.S.I.
D	Initial Closed-in Pressure	1470	P.S.I.
E	Second Initial Flow Pressure	24	P.S.I.
F	Second Final Flow Pressure	3	P.S.I.
G	Final Closed-in Pressure	1218	P.S.I.
H	Final Hydrostatic Mud	2510	P.S.I.

	Time Given	Time Computed
Open Tool	6:38 A M	
First Flow Pressure	45 Mins.	45 Mins.
Initial Closed-in Pressure	60 Mins.	60 Mins.
Second Flow Pressure	60 Mins.	60 Mins.
Final Closed-in Pressure	90 Mins.	90 Mins.

PRESSURE BREAKDOWN

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

Initial Shut-In
Breakdown: 20 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: 30 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						63	1145
P 2						66	1154
P 3						69	1164
P 4						72	1176
P 5						75	1184
P 6						78	1195
P 7						81	1203
P 8						84	1208
P 9						87	1214
P10						90	1218
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							