WESTERN TESTING CO., Inc.
P. O. Box 1599
WICHITA, KANSAS
67201

DATE 8/6/78

Well Report No. 497
Unit No.
District

FOR CUSTOMER'S USE ONLY

Register No.	Voucher No.
Terms Approved	Price Approved
Calculations Checked	
Adjustments	
Accounting Distribution	

CHARGE TO
Gear Petroleum Company
1325 Vickers /KSB&T Building
Wichita, Kansas 67202

Your Order No.	Owner	Contractor	Audited	Final Approval

Well No.	Farm	County	Sec.	Twp.	Range
#1	Spriggs	Barber	14	30S	11W

One drill stem test from 3697' to 3754' (Test 1) $ 415.00

POSTED

Discount	1% Discount Allowed on This Invoice If Paid by 20th of Following Month	Invoice No.
$ 4.15		497

IN REMITTING PLEASE GIVE OUR INVOICE NUMBER

SEND ALL REMITTANCES TO POST OFFICE BOX 1599, WICHITA, KANSAS 67201

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

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET Nº 497

Elevation 1774 KB Formation Douglas Eff. Pay Ft.

District Pratt Date 8-6-78 Customer Order No.

COMPANY NAME Gear Petroleum Co

ADDRESS 1325 Vickers - KSB&T Building Wichita

LEASE AND WELL NO. Spriggs #1 COUNTY Barber STATE Kans. Sec. 34 Twp. 30S Rge. 11W

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

Mail Charts To Same No. Copies Requested
Address

Formation Test No. 1 Interval Tested from 3697 ft. to 3754 ft. Total Depth 3754 ft.

Packer Depth 3692 ft.	Size 6 3/4 in.	Packer Depth — ft.	Size — in.
Packer Depth 3697 ft.	Size 6 3/4 in.	Packer Depth — ft.	Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside)	3701 ft.	Recorder Number 2604	Cap. 4150
Bottom Recorder Depth (Outside)	3704 ft.	Recorder Number 2606	Cap. 4150
Below Straddle Recorder Depth	— ft.	Recorder Number —	Cap. —

Drilling Contractor	Red Tiger Drilling Rig 1	Drill Collar Length —	I. D. — in.
Mud Type	Premix - Starch	Viscosity 45	Weight Pipe Length 945 I. D. 2 1/2 in.
Weight 9.8	Water Loss 8.4 cc.		Drill Pipe Length 2756 I. D. 3.8 in.
Chlorides 68,000	P.P.M.		Test Tool Size 5 3/0D in. Tool Joint Size 4 1/2 FH in.
Jars: Make NO	Serial Number —		Anchor Length 57 ft. Size 5 3/0D 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.

Blow: Strong blow throughout Test see gas flow chart
gas to surface in 2 min.

Recovered 93 ft. of water cut drilling mud - also gas cut
Recovered ft. of
Recovered ft. of Chlorides - 72,000 - 25% water
Recovered ft. of
Recovered ft. of

Remarks: Strong blowing of mud after 10 min into final flow period

Time Set Packer(s) 10:30 ~~A.M.~~ P.M. Time Started Off Bottom 2:15 ~~A.M.~~ P.M. Maximum Temperature 118°F

Initial Hydrostatic Pressure			(A)	1968	P.S.I.	
Initial Flow Period	Minutes	30	(B)	480	P.S.I. to (C)	637 P.S.I.
Initial Closed In Period	Minutes	60	(D)	1265	P.S.I.	
Final Flow Period	Minutes	45	(E)	721	P.S.I. to (F)	742 P.S.I.
Final Closed In Period	Minutes	90	(G)	1234	P.S.I.	
Final Hydrostatic Pressure			(H)	1947	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 Philip L. Hunt
Signature of Customer or his authorized representative

Western Representative Rod Smith

FIELD INVOICE

Open Hole Test	$ 415.00
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Standby	$
Evaluation	$
Extra Packer	$
Circ. Sub.	$
Mileage	$
Extra Charts	$
TOTAL	$ 415.00

Phone 316 838-0601

P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

Nº 1131

Date 8-6-1978 Ticket 497 Company Bear Petroleum Co

Well Name and No. Spriggs #1 Dst No. 1 Interval Tested 3697-3754

County Barber State Kansas Sec. 34 Twp. 30 S Rg. 11 W

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					
10:30		PSIG 1/2"	Tool open		
10:32			orifice		
10:40	48 psi				gas to surface
10:50	52 "				3,633,000 C.F.P.D
11:00	56 ↓				3,874,000
					4,110,000 ↓
SECOND FLOW					
12:00		PSIG 1"	Tool open		
12:10	56 psi	1½"	orifice		4,110,000 C.F.P.D.
12:20	62 "	↓			4,458,000 → Started to
12:30	60 ↓				4,349,000 flow mud
12:40	59				4,289,000 (fine mist)
12:45	59 ↓				4,289,000 ↓

GAS BOTTLE

Serial No. 639 Date Bottle Filled August 6th 78 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 Phillip L. Hunt

FORM WTC 9

WESTERN TESTING CO., INC.
Pressure Data

Date 8-6-78 Test Ticket No. 497

Recorder No. 2604 Capacity 4150 Location 3701 Ft.

Clock No. — Elevation 1774 Kelly Bushing Well Temperature 118 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1966	P.S.I.	Open Tool	10:30 P M	
B	First Initial Flow Pressure	494	P.S.I.	First Flow Pressure	30 Mins.	20 Mins.
C	First Final Flow Pressure	655	P.S.I.	Initial Closed-in Pressure	60 Mins.	75 Mins.
D	Initial Closed-in Pressure	1263	P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E	Second Initial Flow Pressure	734	P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F	Second Final Flow Pressure	738	P.S.I.			
G	Final Closed-in Pressure	1241	P.S.I.			
H	Final Hydrostatic Mud	1941	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 4 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Mins.		Press.
P 1	0	494
P 2	5	552
P 3	10	612
P 4	15	646
P 5	20	655
P 6	25	
P 7	30	
P 8	35	
P 9	40	
P10	45	
P11	50	
P12	55	
P13	60	
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 25 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	655
3	990
6	1167
9	1197
12	1215
15	1226
18	1232
21	1237
24	1242
27	1247
30	1251
33	1254
36	1256
39	1257
42	1259
45	1260
48	1260
51	1261
54	1261
57	1262
60	1262

Continued on next page

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

Point Minutes	Press.
0	734
5	734
10	757
15	768
20	763
25	757
30	752
35	746
40	739
45	738
50	
55	
60	
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	738
3	893
6	1109
9	1144
12	1161
15	1176
18	1184
21	1190
24	1196
27	1201
30	1206
33	1209
36	1212
39	1214
42	1217
45	1219
48	1222
51	1225
54	1227
57	1229
60	1231

Continued on next page

WESTERN TESTING CO., INC.
Pressure Data

Date _____ Test Ticket No. _____

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

Breakdown: _____ Inc.

of 5 mins. and a

final inc. of 0 Min.

Point Mins.	Press.
P 1	
P 2	
P 3	
P 4	
P 5	
P 6	
P 7	
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In

Breakdown: _____ Inc.

of 3 mins. and a

final inc. of 0 Min.

Point Minutes	Press.
63	1262
66	1262
69	1262
72	1263
75	1263
78	
81	
84	
87	
90	
93	
96	
99	
102	
105	
108	
111	
114	
117	
120	

Second Flow Pressure

Breakdown: _____ Inc.

of 5 mins. and a

final inc. of 0 Min.

Point Minutes	Press.

Final Shut-In

Breakdown: _____ Inc.

of 3 mins. and a

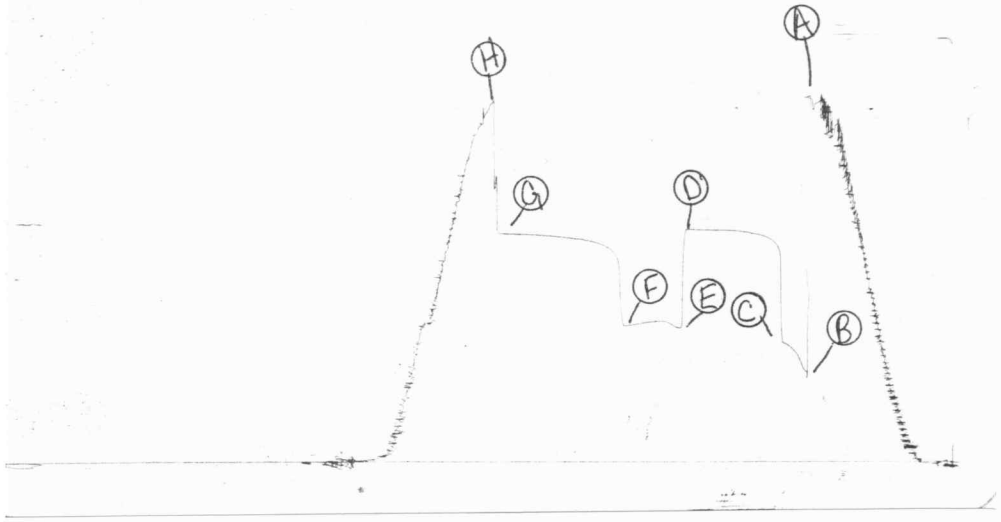
final inc. of 0 Min.

Point Minutes	Press.
63	1233
66	1234
69	1235
72	1236
75	1237
78	1238
81	1239
84	1240
87	1241
90	1241
93	
96	
99	
102	
105	
108	
111	
114	
117	
120	

2604

Tk#497

I.



WESTERN TESTERS

P. O. BOX 1599 PHONE (316) 838-0601

WICHITA, KANSAS 67201

Company Gear Petroleum Company Lease & Well No. Spriggs #1

Elevation 1774 Kelly Bushing Formation Douglas Effective Pay ------ Ft. Ticket No. 497

Date 8/6/78 Sec. 34 Twp. 30S Range 11W County Barber State Kansas

Test Approved by Philip L. Hart Western Representative Rod Tritt

Formation Test No. 1 Interval Tested from 3697' ft. to 3754' ft. Total Depth 3754' ft.

Packer Depth 3692' ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3697' ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ---

Top Recorder Depth (Inside) 3701 ft. Recorder Number 2604 Cap. 4150

Bottom Recorder Depth (Outside) 3704 ft. Recorder Number 2606 Cap. 4150

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

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

Mud Type premix - starch Viscosity 45 Weight Pipe Length 945 I. D. 2½ in.

Weight 9.8 Water Loss 8.4 cc. Drill Pipe Length 2756 I. D. 3.8 in.

Chlorides 68,000 P.P.M. Test Tool Size 5½OD in. Tool Joint Size 4½FH in.

Jars: Make No Serial Number -- Anchor Length 57' 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.

Blow: Strong blow throughout test. Gas to surface in two minutes. See attached gas sheet for gas measurements.

Recovered 93 ft. of water cut drilling mud. Also gas cut.

Recovered ft. of Chlorides 72,000 - 25% water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Strong blowing of mud after 10 minutes into final flow period.

Time Set Packer(s) 10:30 ~~A.M.~~ P.M. Time Started Off Bottom 2:15 A.M. ~~P.M.~~ Maximum Temperature 118

Initial Hydrostatic Pressure			(A)	1966	P.S.I.	
Initial Flow Period	Minutes 30	(B)	494	P.S.I. to (C)	655	P.S.I.
Initial Closed In Period	Minutes 60	(D)	1263	P.S.I.		
Final Flow Period	Minutes 45	(E)	734	P.S.I. to (F)	738	P.S.I.
Final Closed In Period	Minutes 90	(G)	1241	P.S.I.		
Final Hydrostatic Pressure			(H)	1941	P.S.I.	

Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

GAS FLOW REPORT

Date 8/6/78 Ticket 497 Company Gear Petroleum Company

Well Name and No. Spriggs #1 Dst No. 1 Interval Tested 3697'-3754'

County Barber State Kansas Sec. 34 Twp. 30S Rg. 11W

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
10:30	Tool open			**PRE FLOW**		
10:32						Gas to surface
10:40	48	PSIG 1 1/2" orifice				3,633,000 CFPD
10:50	52	PSIG 1 1/2" orifice				3,874,000 CFPD
11:00	56	PSIG 1 1/2" orifice				4,110,000 CFPD
12:00	Tool open			**SECOND FLOW**		
12:10	56	PSIG 1 1/2" orifice				4,110,000 CFPD
12:20	62	PSIG 1 1/2" orifice				4,458,000 CFPD Started to flow mud (fine mist)
12:30	60	PSIG 1 1/2" orifice				4,349,000 CFPD
12:40	59	PSIG 1 1/2" orifice				4,289,000 CFPD
12:45	59	PSIG 1 1/2" orifice				4,289,000 CFPD

GAS BOTTLE

Serial No. 639 Date Bottle Filled August 6, 1978 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 Gear Petroleum Company

Authorized by Philip L. Hart

FORM WTC 6

WESTERN TESTING CO., INC.
Pressure Data

Date 8/6/78 Test Ticket No. 497

Recorder No. 2604 Capacity 4150 Location 3701 Ft.

Clock No. ------ Elevation 1774 KellyBushing Well Temperature 118 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1966	P.S.I.	Open Tool	10:30P M	
B	First Initial Flow Pressure	494	P.S.I.	First Flow Pressure	30 Mins.	20 Mins.
C	First Final Flow Pressure	655	P.S.I.	Initial Closed-in Pressure	60 Mins.	75 Mins.
D	Initial Closed-in Pressure	1263	P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E	Second Initial Flow Pressure	734	P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F	Second Final Flow Pressure	738	P.S.I.			
G	Final Closed-in Pressure	1241	P.S.I.			
H	Final Hydrostatic Mud	1941	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 4 Inc. of 5 mins. and a final inc. of 0 Min.

Point Mins.	Press.
P 1 0	494
P 2 5	552
P 3 10	612
P 4 15	646
P 5 20	655
P 6	
P 7	
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 25 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	655
3	990
6	1167
9	1197
12	1215
15	1226
18	1232
21	1237
24	1242
27	1247
30	1251
33	1254
36	1256
39	1257
42	1259
45	1260
48	1260
51	1261
54	1261
57	1262
60	1262

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

Point Minutes	Press.
0	734
5	734
10	757
15	768
20	763
25	757
30	752
35	746
40	739
45	738

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

Point Minutes	Press.
0	738
3	893
6	1109
9	1144
12	1161
15	1176
18	1184
21	1190
24	1196
27	1201
30	1206
33	1209
36	1212
39	1214
42	1217
45	1219
48	1222
51	1225
54	1227
57	1229
60	1231

WTC - 4

continued next page

continued next page

WESTERN TESTING CO., INC.

Pressure Data

Date 8/6/78 Test Ticket No. 497

Recorder No. 2604 Capacity 4150 Location 3701 Ft.

Clock No. ------ Elevation 1774 KellyBushing Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
Initial Hydrostatic Mud	1966 P.S.I.	Open Tool	10:30P M	
First Initial Flow Pressure	494 P.S.I.	First Flow Pressure	30 Mins.	20 Mins.
First Final Flow Pressure	655 P.S.I.	Initial Closed-in Pressure	60 Mins.	75 Mins.
Initial Closed-in Pressure	1263 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
Second Initial Flow Pressure	734 P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
Second Final Flow Pressure	738 P.S.I.			
Final Closed-in Pressure	1241 P.S.I.			
Final Hydrostatic Mud	1941 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 4 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 25 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 9 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.
P1		63	1262			63	1233
P2		66	1262			66	1234
P3		69	1262			69	1235
P4		72	1263			72	1236
P5		75	1263			75	1237
P6						78	1238
P7						81	1239
P8						84	1240
P9						87	1241
P10						90	1241
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

WTC - 4

WESTERN TESTING CO., Inc.
P. O. Box 1599
WICHITA, KANSAS
67201

DATE 8/7/78

Well Report No. 498
Unit No.
District

FOR CUSTOMER'S USE ONLY

Register No.	Voucher No.
Terms Approved	Price Approved
Calculations Checked	
Adjustments	
Accounting Distribution	

CHARGE TO
Gear Petroleum Company
1325 Vickers/KSB&T Building
Wichita, Kansas 67202

Your Order No.	Owner	Contractor	Audited	Final Approval

Well No.	Farm	County	Sec.	Twp.	Range
#1	Spriggs	Barber	14	~~30S~~ 30S	11W

One drill stem test from 3751' to 3764' (Test 2)	$ 415.00
Extra Packer	25.00
	$ 440.00

POSTED

Discount $ 4.40	1% Discount Allowed on This Invoice If Paid by 20th of Following Month	Invoice No. 498
IN REMITTING PLEASE GIVE OUR INVOICE NUMBER		

SEND ALL REMITTANCES TO POST OFFICE BOX 1599, WICHITA, KANSAS 67201

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

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET Nº 498

Elevation 1774 KB Formation Douglas Sand Eff. Pay ____ Ft.

District Pratt Date 8-7-78 Customer Order No. ____

COMPANY NAME Gear Petroleum Co.

ADDRESS 1325 Vickers - KSB&T Building Wichita Kansas

LEASE AND WELL NO. Spriggs #1 COUNTY Barber STATE Kansas Sec. 14 Twp. 34S Rge. 11W

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

Mail Charts To Same No. Copies Requested ____
Address

Formation Test No. 2 Interval Tested from 3751 ft. to 3764 ft. Total Depth 3764 ft.

Packer Depth 3746 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Packer Depth 3751 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 3754 ft. Recorder Number 2604 Cap. 4150

Bottom Recorder Depth (Outside) 3757 ft. Recorder Number 2606 Cap. 4150

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

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

Mud Type Rem-V Stabil Viscosity 41 Weight Pipe Length 945 I. D. 2.5 in.

Weight 9.8 Water Loss 12.0 cc. Drill Pipe Length 2880 I. D. 3.8 in.

Chlorides 60,000 P.P.M. Test Tool Size 5 1/2 OD in. Tool Joint Size 4 1/2 FH in.

Jars: Make NO Serial Number — Anchor Length 13 ft. Size 5 1/2 OD in.

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

Main Hole Size 7 7/8 in.

Blow: Strong blow on initial and decreasing on final flow / See gas flow chart

Recovered 180 ft. of water cut drilling mud - gassy

Recovered 1665 ft. of water chlorides 143,000 P.P.M.

Recovered ____ ft. of

Recovered ____ ft. of

Recovered ____ ft. of

Remarks: ____

Time Set Packer(s) 3:25 ~~A.M.~~ P.M. Time Started Off Bottom 5:55 ~~A.M.~~ P.M. Maximum Temperature 120° F

Initial Hydrostatic Pressure		(A)	2000	P.S.I.	
Initial Flow Period	Minutes 30	(B)	191	P.S.I. to (C)	554 P.S.I.
Initial Closed In Period	Minutes 60	(D)	1265	P.S.I.	
Final Flow Period	Minutes 30	(E)	711	P.S.I. to (F)	846 P.S.I.
Final Closed In Period	Minutes 30	(G)	1244	P.S.I.	
Final Hydrostatic Pressure		(H)	1978	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 Philip L. Hunt
Signature of Customer or his authorized representative

Western Representative Rod Smith

FIELD INVOICE

Open Hole Test	$ 415.00
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Standby	$
Evaluation	$
Extra Packer	$ 25.00
Circ. Sub.	$
Mileage	$
Extra Charts	$
TOTAL	$ 440.00

Phone 316 838-0601

P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

No. 1132

Date 8-7-78 Ticket 498 Company Gear Petroleum Co

Well Name and No. Spears #1 Dst No. 2 Interval Tested 3751-3764

County State Sec. 34 Twp. 30 Rg. 1W

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					
3:25 P.M.					Tool open
3:40 15	1/3	1/2"			Gas To surface 22,000 C.F.P.D
3:45 20	1/6"	"			26,000 C.F.P.D.
3:50 30	0	"			
SECOND FLOW					
4:55					Tool open
					Gas to weak to measure
5:55					

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

FORM WTC 9

WESTERN TESTING CO., INC.

Pressure Data

Date 8-7-78 Test Ticket No. 498

Recorder No. 2604 Capacity 4150 Location 3754 Ft.

Clock No. — Elevation — Well Temperature 120 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2006 P.S.I.	Open Tool		3:25P M	
B	First Initial Flow Pressure	200 P.S.I.	First Flow Pressure		30 Mins.	30 Mins.
C	First Final Flow Pressure	559 P.S.I.	Initial Closed-in Pressure		60 Mins.	60 Mins.
D	Initial Closed-in Pressure	1262 P.S.I.	Second Flow Pressure		30 Mins.	30 Mins.
E	Second Initial Flow Pressure	715 P.S.I.	Final Closed-in Pressure		38 Mins.	36 Mins.
F	Second Final Flow Pressure	839 P.S.I.				
G	Final Closed-in Pressure	1248 P.S.I.				
H	Final Hydrostatic Mud	1981 P.S.I.				

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Mins.	Press.
P 1 0	200
P 2 5	251
P 3 10	335
P 4 15	412
P 5 20	473
P 6 25	536
P 7 30	559
P 8 35	
P 9 40	
P10 45	
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	559
3	906
6	1096
9	1142
12	1167
15	1187
18	1199
21	1209
24	1217
27	1225
30	1232
33	1237
36	1241
39	1245
42	1250
45	1251
48	1254
51	1256
54	1259
57	1261
60	1262

Second Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	715
5	714
10	730
15	760
20	791
25	828
30	839
35	
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	

Final Shut-In
Breakdown: 12 Inc.
of 3 mins. and a
final inc. of 0 Min.

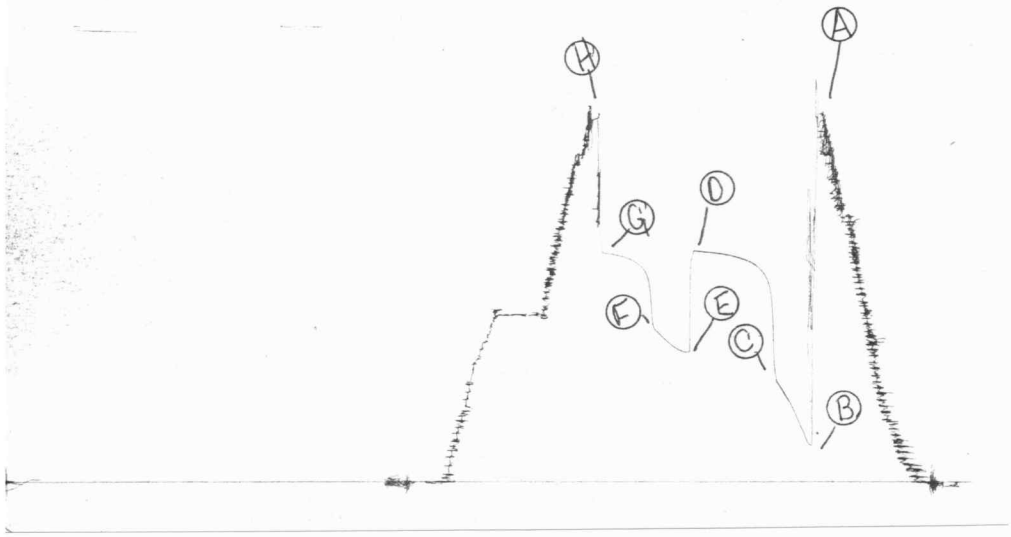
Point Minutes	Press.
0	839
3	1036
6	1145
9	1176
12	1194
15	1209
18	1218
21	1227
24	1234
27	1238
30	1242
33	1246
36	1248
39	
42	
45	
48	
51	
54	
57	
60	

WTC - 4

2604

Tk # 498

I.



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

Company Gear Petroleum Company Lease & Well No. Springgs #1

Elevation 1774 Kelly Bushing Formation Douglas Sand Effective Pay ------ Ft. Ticket No. 498

Date 8/7/78 Sec. 34 Twp. 30S Range 11W County Barber State Kansas

Test Approved by Philip L. Hart Western Representative Rod Tritt

Formation Test No. 2 Interval Tested from 3751' ft. to 3764' ft. Total Depth 3764' ft.

Packer Depth 3746' ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3751 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ---

Top Recorder Depth (Inside) 3754 ft. Recorder Number 2604 Cap. 4150

Bottom Recorder Depth (Outside) 3757 ft. Recorder Number 2606 Cap. 4150

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

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

Mud Type premix starch Viscosity 41 Weight Pipe Length 945 I. D. 2.5 in.

Weight 9.8 Water Loss 12.0 cc. Drill Pipe Length 2880 I. D. 3.8 in.

Chlorides 60,000 P.P.M. Test Tool Size 5½OD in. Tool Joint Size 4½FH in.

Jars: Make No Serial Number -- Anchor Length 13 ft. Size 5½OD in.

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

Main Hole Size 7 7/8 in.

Blow: Strong blow on initial and decreasing on final flow period. See gas sheet for gas measurements.

Recovered 180 ft. of water cut drilling mud - gassy

Recovered 1665 ft. of water Chlorides 143,000 PPM

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 3:25 ~~A.M.~~ P.M. Time Started Off Bottom 5:55 ~~A.M.~~ P.M. Maximum Temperature 120

Initial Hydrostatic Pressure			(A)	2006	P.S.I.	
Initial Flow Period	Minutes 30	(B)	200	P.S.I. to (C)	559	P.S.I.
Initial Closed In Period	Minutes 60	(D)	1262	P.S.I.		
Final Flow Period	Minutes 30	(E)	715	P.S.I. to (F)	839	P.S.I.
Final Closed In Period	Minutes 30	(G)	1248	P.S.I.		
Final Hydrostatic Pressure		(H)	1981	P.S.I.		

Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

GAS FLOW REPORT

Date 8/7/78 Ticket 498 Company Gear Petroleum Company

Well Name and No. Spriggs #1 Dst No. 2 Interval Tested 3751'-3764'

County Barber State Kansas Sec. 34 Twp. 30S Rg. 11W

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
PRE FLOW						
3:25 PM						Tool open
3:40	15 min.	13" of water	1/2" orifice			Gas to surface 22,000 CFPD
3:45	20 min.	16" of water	1/2" orifice			25,000 CFPD
3:50	30 min.	-- 0 --	1/2" orifice			
SECOND FLOW						
4:55						Tool open.
						Gas too weak to measure
5:55						

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 Gear Petroleum Company

Authorized by Philip L. Hart

FORM WTC 6

WESTERN TESTING CO., INC.

Pressure Data

Date 8/7/78 Test Ticket No. 498

Recorder No. 2604 Capacity 4150 Location 3754 Ft.

Clock No. -- Elevation -- Well Temperature 120 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2006	P.S.I.	Open Tool	3:25P M	
B	First Initial Flow Pressure	200	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	559	P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D	Initial Closed-in Pressure	1262	P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E	Second Initial Flow Pressure	715	P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F	Second Final Flow Pressure	839	P.S.I.			
G	Final Closed-in Pressure	1248	P.S.I.			
H	Final Hydrostatic Mud	1981	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 6 Inc.		Breakdown: 20 Inc.		Breakdown: 6 Inc.		Breakdown: 12 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 0	200	0	559	0	715	0	839
P 2 5	251	3	906	5	714	3	1036
P 3 10	335	6	1096	10	730	6	1145
P 4 15	412	9	1142	15	760	9	1176
P 5 20	473	12	1167	20	791	12	1194
P 6 25	536	15	1187	25	828	15	1209
P 7 30	559	18	1199	30	839	18	1218
P 8		21	1209			21	1227
P 9		24	1217			24	1234
P10		27	1225			27	1238
P11		30	1232			30	1242
P12		33	1237			33	1246
P13		36	1241			36	1248
P14		39	1245				
P15		42	1250				
P16		45	1251				
P17		48	1254				
P18		51	1256				
P19		54	1259				
P20		57	1261				
		60	1262				