WESTERN TESTERS

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

WICHITA, KANSAS 67201

Company Gear Petroleum Company Lease & Well No. Brown #3

Elevation 2563 Kelly Bushing Formation Mississippi Effective Pay -- Ft. Ticket No. 1892

Date 10/6/78 Sec. 4 Twp. 28S Range 5W County Kingman State Kansas

Test Approved by Phillip I. Hart Western Representative Will K. Hager

Formation Test No. 1 Interval Tested from 3756 ft. to 3779 ft. Total Depth 3779 ft.

Packer Depth 3756 ft. Size 6 3/4 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) 3771 ft. Recorder Number 1561 Cap. 3200

Bottom Recorder Depth (Outside) 3774 ft. Recorder Number 1564 Cap. 3150

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

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

Mud Type premix starch Viscosity 35 Weight Pipe Length 1341 I. D. X Hole

Weight 9.6 Water Loss 19.2 cc. Drill Pipe Length 2400 I. D. 3.8 in.

Chlorides 51,000 P.P.M. Test Tool Size 5½ in. Tool Joint Size 4½FH in.

Jars: Make -- Serial Number -- Anchor Length 23 ft. Size 5½ in.

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

Main Hole Size 7 7/8 in. Test tool length 38'

Blow: Strong blow throughout test. Gas to surface in 20 minutes on initial opening. See attached sheet for gas measurements.

Recovered 125 ft. of gas cut mud

Recovered 360 ft. of gas cut water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 2:15 ~~A.M.~~ P.M. Time Started Off Bottom 4:45 ~~A.M.~~ P.M. Maximum Temperature 120

Initial Hydrostatic Pressure ..... (A) 1976 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 74 P.S.I. to (C) 133 P.S.I.

Initial Closed In Period ..... Minutes 30 (D) 1310 P.S.I.

Final Flow Period ..... Minutes 45 (E) 173 P.S.I. to (F) 268 P.S.I.

Final Closed In Period ..... Minutes 45 (G) 1316 P.S.I.

Final Hydrostatic Pressure ..... (H) 1960 P.S.I.

Phone 316 262-5861
316 838-0601

P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

Date 10/6/78 Ticket 1892 Company Gear Petroleum Company

Well Name and No. Brown #3 Dst No. 1 Interval Tested 3756'-3779'

County Kingman State Kansas Sec. 4 Twp. 28S Rg. 5W

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						
Gas to surface in 20 minutes.						
25 min.	18" of water	1/4" orifice				7,120 CFPD
30 min.	35" of water	1/4" orifice				10,100 CFPD
SECOND FLOW						
5 min.	20" of water	1/4" orifice				7,510 CFPD
10 min.	22" of water	1/4" orifice				7,880 CFPD
15 min.	19" of water	1/4" orifice				7,320 CFPD
20 min.	16" of water	1/4" orifice				6,720 CFPD
25 min.	12" of water	1/4" orifice				5,860 CFPD
30 min.	13" of water	1/4" orifice				6,100 CFPD
35 min.	12" of water	1/4" orifice				5,860 CFPD
40 min.	11" of water	1/4" orifice				5,600 CFPD
45 min.	11" of water	1/4" orifice				5,600 CFPD

GAS BOTTLE

Serial No. -- Date Bottle Filled -- Date to be Invoiced 10/6/78

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 Phillip I. Hart

FORM WTC 6

WESTERN TESTING CO., INC.
Pressure Data

Date 10/6/78 Test Ticket No. 1892

Recorder No. 1561 Capacity 3200 Location 3771 Ft.

Clock No. -- Elevation 2563 Kelly Bushing Well Temperature 120 °F

Point		Pressure	
A	Initial Hydrostatic Mud	1976	P.S.I.
B	First Initial Flow Pressure	74	P.S.I.
C	First Final Flow Pressure	133	P.S.I.
D	Initial Closed-in Pressure	1310	P.S.I.
E	Second Initial Flow Pressure	173	P.S.I.
F	Second Final Flow Pressure	268	P.S.I.
G	Final Closed-in Pressure	1316	P.S.I.
H	Final Hydrostatic Mud	1960	P.S.I.

	Time Given	Time Computed
Open Tool	2:15P M	
First Flow Pressure	30 Mins.	40 Mins.
Initial Closed-in Pressure	30 Mins.	30 Mins.
Second Flow Pressure	45 Mins.	45 Mins.
Final Closed-in Pressure	45 Mins.	45 Mins.

PRESSURE BREAKDOWN

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

Initial Shut-In
Breakdown: 10 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: 15 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point	Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	0	74	0	133	0	173	0	268
P 2	5	72	3	502	5	169	3	577
P 3	10	82	6	856	10	182	6	800
P 4	15	96	9	1048	15	196	9	1027
P 5	20	100	12	1154	20	209	12	1105
P 6	25	110	15	1199	25	221	15	1157
P 7	30	118	18	1240	30	236	18	1196
P 8	35	129	21	1267	35	245	21	1223
P 9	40	133	24	1289	40	262	24	1243
P10			27	1307	45	268	27	1259
P11			30	1310			30	1275
P12							33	1288
P13							36	1298
P14							39	1307
P15							42	1314
P16							45	1316
P17								
P18								
P19								
P20								

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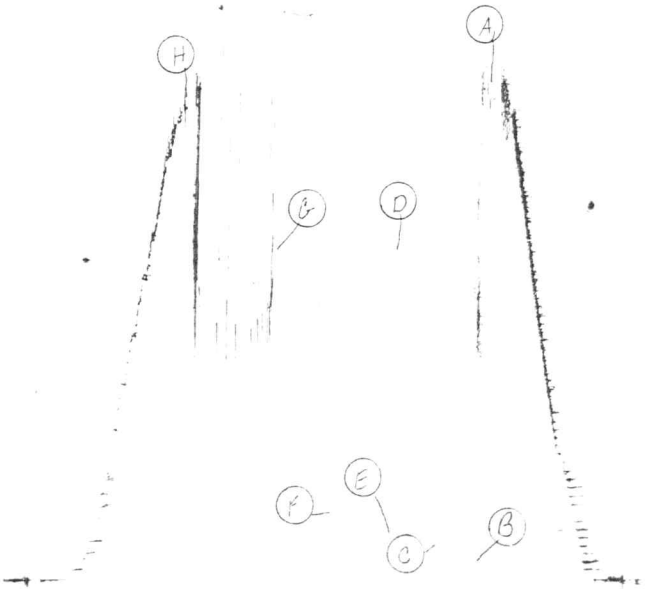

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P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

Company Gear Petroleum Company — Lease & Well No. Brown #3

Elevation 2563 Kelly Bushing — Formation Mississippi — Effective Pay -- Ft. — Ticket No. 1893

Date 10/7/78 — Sec. 4 — Twp. 28S — Range 5W — County Kingman — State Kansas

Test Approved by Philip L. Hart — Western Representative Will K. Hager

Formation Test No. 2 — Interval Tested from 3781' ft. to 3789' ft. — Total Depth 3789' ft.

Packer Depth 3781 ft. — Size 6 3/4 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) 3773 ft. — Recorder Number 1561 — Cap. 3200

Bottom Recorder Depth (Outside) 3776 ft. — Recorder Number 1564 — Cap. 3150

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

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

Mud Type premix starch — Viscosity 42 — Weight Pipe Length 1341 — I. D. X Hole in.

Weight 9.6 — Water Loss 8.0 cc. — Drill Pipe Length 2481 — I. D. 3.8 in.

Chlorides 59,000 P.P.M. — Test Tool Size 5½ in. — Tool Joint Size 4½FH in.

Jars: Make -- — Serial Number -- — Anchor Length 8 ft. — Size 5½ in.

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

Main Hole Size 7 7/8 in. — Test tool length

Blow: Very strong blow on initial opening slightly decreasing on second opening. Gas to surface in 35 minutes. See attached sheet for gas measurements.

Recovered 60 ft. of gas and oil cut mud

Recovered 650 ft. of heavy gas cut oil

Recovered 130 ft. of gas cut salt water

Recovered ____ ft. of

Recovered ____ ft. of

Remarks:

Time Set Packer(s) 11:20 A.M. ~~P.M.~~ — Time Started Off Bottom 1:50 ~~A.M.~~ P.M. — Maximum Temperature 120

Initial Hydrostatic Pressure			(A)	1915	P.S.I.	
Initial Flow Period	Minutes	30	(B)	39	P.S.I. to (C)	163 P.S.I.
Initial Closed In Period	Minutes	30	(D)	1423	P.S.I.	
Final Flow Period	Minutes	45	(E)	203	P.S.I. to (F)	328 P.S.I.
Final Closed In Period	Minutes	45	(G)	1420	P.S.I.	
Final Hydrostatic Pressure			(H)	1953	P.S.I.	

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316 838-0601

P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

Date 10/7/78 Ticket 1893 Company Gear Petroleum Company

Well Name and No. Brown #3 Dst No. 2 Interval Tested 3781'-3789'

County Kingman State Kansas Sec. 4 Twp. 28S Rg. 5W

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						
Gas to surface after initial shut-in 35 minutes after tool opened.						
SECOND FLOW						
5 min.	20" of water	1/2" orifice				28,000 CFPD
10 min.	19" of water	1/2" orifice				27,300 CFPD
15 min.	14" of water	1/2" orifice				23,700 CFPD
20 min.	11" of water	1/2" orifice				20,900 CFPD
25 min.	11" of water	1/2" orifice				20,900 CFPD
30 min.	12" of water	1/2" orifice				21,900 CFPD
35 min.	13" of water	1/2" orifice				22,800 CFPD
40 min.	13" of water	1/2" orifice				22,800 CFPD
45 min.	13" of water	1/2" orifice				22,800 CFPD

GAS BOTTLE

Serial No. -- Date Bottle Filled -- Date to be Invoiced 10/7/78

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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 Will K. Hager

FORM WTC 6

WESTERN TESTING CO., INC.
Pressure Data

Date 10/7/78 Test Ticket No. 1893

Recorder No. 1561 Capacity 3200 Location 3773 Ft.

Clock No. -- Elevation 2563 Kelly Bushing Well Temperature 120 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1915 P.S.I.		Open Tool	11:20A M	
B	First Initial Flow Pressure	39 P.S.I.		First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	163 P.S.I.		Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	1423 P.S.I.		Second Flow Pressure	45 Mins.	40 Mins.
E	Second Initial Flow Pressure	203 P.S.I.		Final Closed-in Pressure	45 Mins.	45 Mins.
F	Second Final Flow Pressure	328 P.S.I.				
G	Final Closed-in Pressure	1420 P.S.I.				
H	Final Hydrostatic Mud	1953 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	39
P 2	5	38
P 3	10	66
P 4	15	89
P 5	20	119
P 6	25	148
P 7	30	163
P 8		
P 9		
P10		
P11		
P12		
P13		
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 10 Inc. of 3 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
P 1	0	163
P 2	3	1359
P 3	6	1394
P 4	9	1406
P 5	12	1414
P 6	15	1417
P 7	18	1420
P 8	21	1422
P 9	24	1422
P10	27	1423
P11	30	1423
P12		
P13		
P14		
P15		
P16		
P17		
P18		
P19		
P20		

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

Point	Minutes	Press.
P 1	0	203
P 2	5	201
P 3	10	223
P 4	15	243
P 5	20	270
P 6	25	286
P 7	30	301
P 8	35	314
P 9	40	328
P10		
P11		
P12		
P13		
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Final Shut-In
Breakdown: 15 Inc. of 3 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
P 1	0	328
P 2	3	1256
P 3	6	1377
P 4	9	1394
P 5	12	1402
P 6	15	1407
P 7	18	1409
P 8	21	1413
P 9	24	1414
P10	27	1416
P11	30	1417
P12	33	1417
P13	36	1420
P14	39	1420
P15	42	1420
P16	45	1420
P17		
P18		
P19		
P20		

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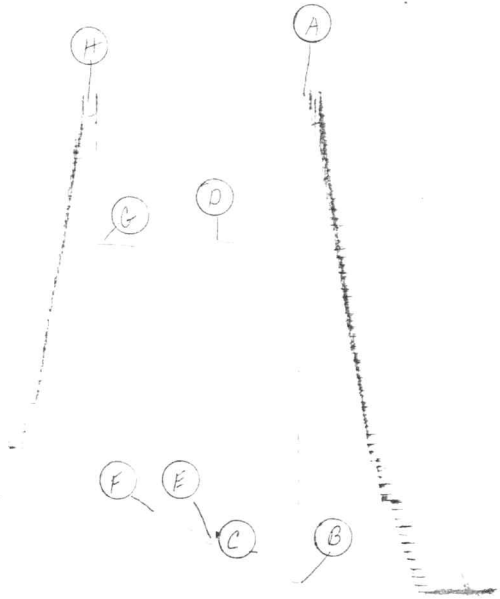

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