WESTERN TESTING CO., INC.
FORMATION TESTING

call - OK

TICKET Nº 15227

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

Elevation 1578 K.B. Formation ELGIN Eff. Pay Ft.

District Pratt Date 5-5-82 Customer Order No.

COMPANY NAME Gear Petroleum Co., Inc.

ADDRESS 300 Sutton Place Wichita, Ks.

LEASE AND WELL NO. Nuckolls "A" #1-30 COUNTY Barber STATE Ks Sec. 30 Twp. 31S Rge. 11W

Mail Invoice To NUCKOLLS "A" #1-30 No. Copies Requested
Co. Name Address

Mail Charts To No. Copies Requested
Address

Formation Test No. 1 Interval Tested From 3361 ft. to 3397 ft. Total Depth 3397 ft.
Packer Depth 3356 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 3361 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set

Top Recorder Depth (Inside) 3367 ft. Recorder Number 5673 Cap. 5400
Bottom Recorder Depth (Outside) 3370 ft. Recorder Number 15640 Cap. 6600
Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor RRA #1
Mud Type Chem-Manpac Viscosity 44
Weight 9.1 Water Loss 12.0 cc.
Chlorides 20,000 P.P.M.
Jars: Make Serial Number
Did Well Flow? NO Reversed Out NO

Drill Collar Length 484 I. D. 2.26 in.
Weight Pipe Length I. D. in.
Drill Pipe Length 2914 I. D. 3.8 in.
Test Tool Length 22 ft. Tool Size 5 1/2 O.D. in.
Anchor Length 36 ft. Size 5 1/2 O.D. in.
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 X-Hole in.

Blow: IFP - V. WEAK Dead in 9 min.
FFP - V. WEAK Few small bubbles

Recovered 15 ft. of mud
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Remarks:

RECEIVED
MAY 7 - 1982

Time On Location 8:00 A.M. / P.M. Time Pick Up Tool 10:30 A.M. / P.M. Time Off Location 4:30 A.M. / P.M.
Time Set Packer(s) 11:45 A.M. / P.M. Time Started Off Bottom 1:45 A.M. / P.M. Maximum Temperature 114 °F

Initial Hydrostatic Pressure			(A)	1605	P.S.I.	
Initial Flow Period	Minutes 30		(B)	40 P.S.I.	to (C) 27	P.S.I.
Initial Closed In Period	Minutes 30		(D)	27	P.S.I.	
Final Flow Period	Minutes 30		(E)	27 P.S.I.	to (F) 27	P.S.I.
Final Closed In Period	Minutes 30		(G)	27	P.S.I.	
Final Hydrostatic Pressure			(H)	1618	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 Ed Louis
Signature of Customer or his authorized representative

Western Representative Karl Kloetzli. Thank you

FIELD INVOICE

Open Hole Test	$ 600.00
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$ 65.00
Safety Joint	$
Standby	$
Evaluation	$
Extra Packer	$
Circ. Sub.	$
Mileage	$
Fluid Sampler	$
Extra Charts	$
Insurance	$
Telecopier	$
TOTAL	$ 665.00

WESTERN TESTING CO., INC.

Pressure Data

Date 5-5-82 Test Ticket No. 15227

Recorder No. 5673 Capacity 5400 Location 3367 F

Clock No. — — — — Elevation 1578 KB Well Temperature 114 °

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	1629	P.S.I.	Open Tool 11:45 AM	
B	First Initial Flow Pressure	18	P.S.I.	First Flow Pressure 30 Mins.	30 Mins
C	First Final Flow Pressure	18	P.S.I.	Initial Closed-in Pressure 30 Mins.	30 Mins
D	Initial Closed-in Pressure	18	P.S.I.	Second Flow Pressure 30 Mins.	30 Mins
E	Second Initial Flow Pressure	19	P.S.I.	Final Closed-in Pressure 30 Mins.	24 Mins
F	Second Final Flow Pressure	20	P.S.I.		
G	Final Closed-in Pressure	20	P.S.I.		
H	Final Hydrostatic Mud	1612	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	18
P 2	5	1
P 3	10	
P 4	15	18
P 5	20	19
P 6	25	19
P 7	30	18
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: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	18
3	19
6	20
9	21
12	22
15	24
18	23
21	22
24	20
27	19
30	18
33	
36	
39	
42	
45	
48	
51	
54	
57	
60	

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

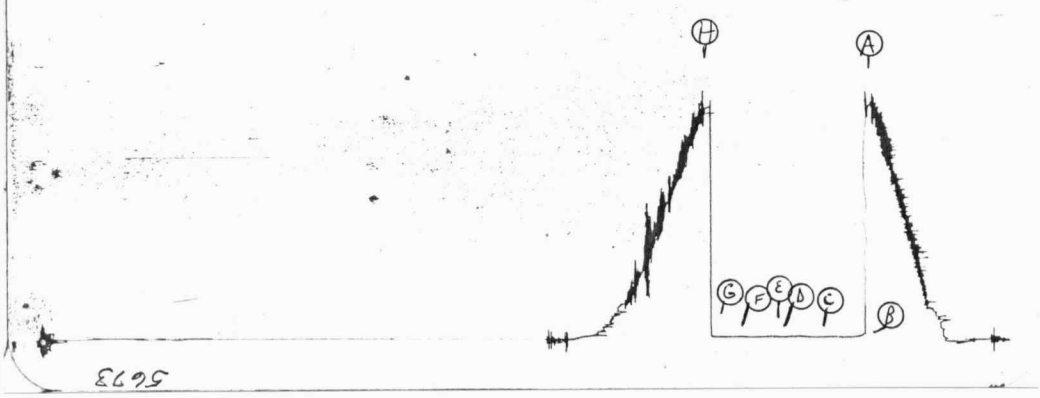
Point Minutes	Press.
0	19
5	1
10	
15	19
20	20
25	20
30	20
35	
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	

Final Shut-In
Breakdown: 8 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	30
3	20
6	20
9	19
12	19
15	19
18	19
21	20
24	20
27	
30	
33	
36	
39	
42	
45	
48	
51	
54	
57	
60	

TKT # 15227

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5673

Company Gear Petroleum Company, Inc. Lease & Well No. Nuckolls "A" #1-30

Elevation 1578 Kelly Bushing Formation Elgin Effective Pay - Ft. Ticket No. 15227

Date 5/5/82 Sec. 30 Twp. 31S Range 11W County Barber State Kansas

Test Approved by Ed Louis Western Representative Karl Leo West, Jr.

Formation Test No. 1 Interval Tested from 3361 ft. to 3397 ft. Total Depth 3397 ft.

Packer Depth 3356 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3361 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3367 ft. Recorder Number 5673 Cap. 5400

Bottom Recorder Depth (Outside) 3370 ft. Recorder Number 15640 Cap. 6600

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

Drilling Contractor R. R. A. Drlg. Rig #1 Drill Collar Length 484 I. D. 2.26 in.

Mud Type chem-monpac Viscosity 44 Weight Pipe Length - I. D. - in.

Weight 9.1 Water Loss 12.0 cc. Drill Pipe Length 2914 I. D. 3.8 in.

Chlorides 20,000 P.P.M. Test Tool Length 22 ft. Tool Size 5½OD in.

Jars: Make - Serial Number - Anchor Length 36 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 4½XH in.

Blow: Initial flow period very weak; died in nine minutes. Final flow period very weak few small bubbles.

Recovered 15 ft. of mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 11:45 ~~P.M.~~ A.M. Time Started Off Bottom 1:45 ~~A.M.~~ P.M. Maximum Temperature 114°

Initial Hydrostatic Pressure			(A) 1629	P.S.I.		
Initial Flow Period	Minutes 30	(B) 18	P.S.I. to	(C) 18	P.S.I.	
Initial Closed In Period	Minutes 30	(D) 18	P.S.I.			
Final Flow Period	Minutes 30	(E) 19	P.S.I. to	(F) 20	P.S.I.	
Final Closed In Period	Minutes 24	(G) 20	P.S.I.			
Final Hydrostatic Pressure			(H) 1612	P.S.I.		

WESTERN TESTING CO., INC.

Pressure Data

Date 5/5/82 Test Ticket No. 15227

Recorder No. 5673 Capacity 5400 Location 3367 Ft.

Clock No. --- Elevation 1578 Kelly Bushing Well Temperature 114 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1629 P.S.I.	Open Tool		11:45A M	
B	First Initial Flow Pressure	18 P.S.I.	First Flow Pressure		30 Mins.	30 Mins.
C	First Final Flow Pressure	18 P.S.I.	Initial Closed-in Pressure		30 Mins.	30 Mins.
D	Initial Closed-in Pressure	18 P.S.I.	Second Flow Pressure		30 Mins.	30 Mins.
E	Second Initial Flow Pressure	19 P.S.I.	Final Closed-in Pressure		30 Mins.	24 Mins.
F	Second Final Flow Pressure	20 P.S.I.				
G	Final Closed-in Pressure	20 P.S.I.				
H	Final Hydrostatic Mud	1612 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	18
P 2	5	18
P 3	10	18
P 4	15	18
P 5	20	19
P 6	25	19
P 7	30	18
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.
0	18
3	19
6	20
9	21
12	22
15	24
18	23
21	22
24	20
27	19
30	18

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

Point Minutes	Press.
0	19
5	19
10	19
15	19
20	20
25	20
30	20

Final Shut-In
Breakdown: 8 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	20
3	20
6	20
9	19
12	19
15	19
18	19
21	20
24	20

Call - OK

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No. 15228

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

Elevation 1578 KB Formation Elgin Eff. Pay Ft.

District Pratt Date 5-5-82 Customer Order No.

COMPANY NAME Gear Petroleum Co., Inc.

ADDRESS 300 Sutton Place Wichita, Ks.

LEASE AND WELL NO. Nuckolls "A" #1-30 COUNTY Barber STATE Ks Sec. 30 Twp. 31S Rge. 11W

Mail Invoice To Co. Name Address No. Copies Requested

Mail Charts To Address No. Copies Requested

Formation Test No. 2 Interval Tested From 3386 ft. to 3420 ft. Total Depth 3420 ft.

Packer Depth 3381 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 3386 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3392 ft. Recorder Number 5673 Cap. 5400

Bottom Recorder Depth (Outside) 3395 ft. Recorder Number 15640 Cap. 6600

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor RRA #1 Drill Collar Length 484 I. D. 2.26 in.

Mud Type Chem-Monpac Viscosity 44 Weight Pipe Length I. D. in.

Weight 9.1 Water Loss 12.0 cc. Drill Pipe Length 2945 I. D. 3.8 in.

Chlorides 20,000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 O.D. in.

Jars: Make Serial Number Anchor Length 34 ft. Size 5 1/2 O.D. in.

Did Well Flow? NO Reversed Out 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 XH in.

Blow: IFP- V. WEAK Dead in 12 min.
FFP- FEW WEAK Bubbles

Recovered 20 ft. of Mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

RECEIVED
MAY 7 - 1982

Time On Location 11:00 A.M. / P.M. Time Pick Up Tool 12:15 A.M. / P.M. Time Off Location 8:00 A.M. / P.M.

Time Set Packer(s) 2:25 A.M. / P.M. Time Started Off Bottom 4:25 A.M. / P.M. Maximum Temperature 114 °F

Initial Hydrostatic Pressure		(A)	1618	P.S.I.	
Initial Flow Period	Minutes 30	(B)	54	P.S.I. to (C) 27	P.S.I.
Initial Closed In Period	Minutes 30	(D)	27	P.S.I.	
Final Flow Period	Minutes 30	(E)	27	P.S.I. to (F) 13	P.S.I.
Final Closed In Period	Minutes 30	(G)	27	P.S.I.	
Final Hydrostatic Pressure		(H)	1618	P.S.I.	

COMPANY TERMS

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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 Ed Lowe Ed Lowe
Signature of Customer or his authorized representative

Western Representative Kay Kloeckner Thanks Again

FIELD INVOICE

Open Hole Test	$ 600.00
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$ 65.00
Safety Joint	$
Standby	$
Evaluation	$
Extra Packer	$
Circ. Sub.	$
Mileage	$
Fluid Sampler	$
Extra Charts	$
Insurance	$
Telecopier	$
TOTAL	$ 665.00

WESTERN TESTING CO., INC.
Pressure Data

Date 5-5-82 Test Ticket No. 15228

Recorder No. 5673 Capacity 5400 Location 3392 Ft

Clock No. — — — — Elevation 1578 KB Well Temperature 114 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1629	P.S.I.	Open Tool	2:25 AM	
B	First Initial Flow Pressure	29	P.S.I.	First Flow Pressure	30 Mins.	30 Mins
C	First Final Flow Pressure	29	P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins
D	Initial Closed-in Pressure	32	P.S.I.	Second Flow Pressure	30 Mins.	30 Mins
E	Second Initial Flow Pressure	30	P.S.I.	Final Closed-in Pressure	30 Mins.	33 Mins
F	Second Final Flow Pressure	25	P.S.I.			
G	Final Closed-in Pressure	24	P.S.I.			
H	Final Hydrostatic Mud	1629	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	29
P 2	5	
P 3	10	
P 4	15	
P 5	20	
P 6	25	
P 7	30	29
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: 10 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	29
3	30
6	31
9	32
12	34
15	36
18	35
21	34
24	33
27	32
30	32
33	
36	
39	
42	
45	
48	
51	
54	
57	
60	

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

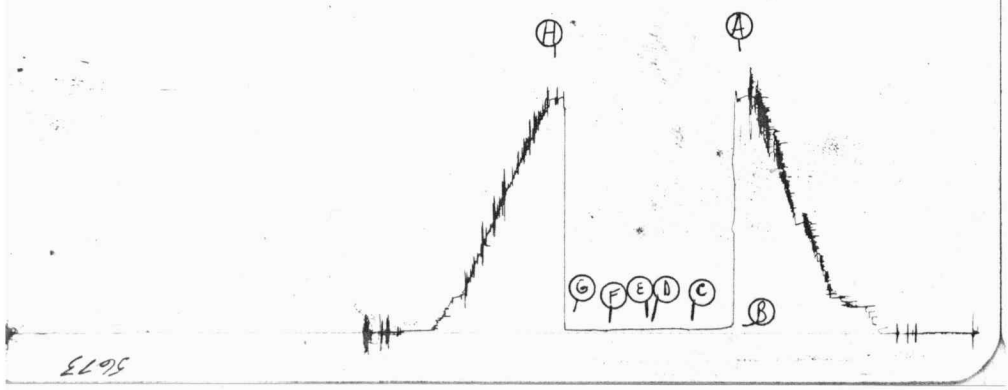
Point Minutes	Press.
0	30
5	
10	
15	30
20	29
25	27
30	25
35	
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	

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

Point Minutes	Press.
0	25
3	23
6	22
9	24
12	25
15	24
18	
21	
24	
27	
30	24
33	24
36	
39	
42	
45	
48	
51	
54	
57	
60	

TKT # 15228

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5673

Company Gear Petroleum Company, Inc. Lease & Well No. Nuckolls "A"#1-30

Elevation 1578 Kelly Bushing Formation Elgin Effective Pay - Ft. Ticket No. 15228

Date 5/5/82 Sec. 30 Twp. 31S Range 11W County Barber State Kansas

Test Approved by Ed Louis Western Representative Karl Leo West, Jr.

Formation Test No. 2 Interval Tested from 3386 ft. to 3420 ft. Total Depth 3420 ft.

Packer Depth 3381 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3386 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3392 ft. Recorder Number 5673 Cap. 5400

Bottom Recorder Depth (Outside) 3395 ft. Recorder Number 15640 Cap. 6600

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

Drilling Contractor R. R. A. Drlg. Rig #1 Drill Collar Length 484 I. D. 2.26 in.

Mud Type chem-monpac Viscosity 44 Weight Pipe Length - I. D. - in.

Weight 9.1 Water Loss 12.0 cc. Drill Pipe Length 2945 I. D. 3.8 in.

Chlorides 20,000 P.P.M. Test Tool Length 22 ft. Tool Size 5½OD in.

Jars: Make - Serial Number - Anchor Length 34 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 4½XH in.

Blow: Initial flow period very weak and dead in twelve minutes. Final flow period - few weak bubbles.

Recovered 20 ft. of mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 2:25 ~~P.M.~~ A.M. Time Started Off Bottom 4:25 ~~P.M.~~ A.M. Maximum Temperature 114°

Initial Hydrostatic Pressure			(A) 1629	P.S.I.		
Initial Flow Period	Minutes 30		(B) 29	P.S.I. to	(C) 29	P.S.I.
Initial Closed In Period	Minutes 30		(D) 32	P.S.I.		
Final Flow Period	Minutes 30		(E) 30	P.S.I. to	(F) 25	P.S.I.
Final Closed In Period	Minutes 33		(G) 24	P.S.I.		
Final Hydrostatic Pressure			(H) 1629	P.S.I.		

WESTERN TESTING CO., INC.

Pressure Data

Date 5/5/82 Test Ticket No. 15228

Recorder No. 5673 Capacity 5400 Location 3392 Ft.

Clock No. --- Elevation 1578 Kelly Bushing - Well Temperature 114 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1629 P.S.I.		Open Tool	2:25A M	
B	First Initial Flow Pressure	29 P.S.I.		First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	29 P.S.I.		Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	32 P.S.I.		Second Flow Pressure	30 Mins.	30 Mins.
E	Second Initial Flow Pressure	30 P.S.I.		Final Closed-in Pressure	30 Mins.	33 Mins.
F	Second Final Flow Pressure	25 P.S.I.				
G	Final Closed-in Pressure	24 P.S.I.				
H	Final Hydrostatic Mud	1629 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	29
P 2	5	29
P 3	10	29
P 4	15	29
P 5	20	29
P 6	25	29
P 7	30	29
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.
0	29
3	30
6	31
9	32
12	34
15	36
18	35
21	34
24	33
27	32
30	32

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

Point Minutes	Press.
0	30
5	30
10	30
15	30
20	29
25	27
30	25

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

Point Minutes	Press.
0	25
3	23
6	22
9	24
12	25
15	24
18	24
21	24
24	24
27	24
30	24
33	24

WESTERN TESTING CO., INC.
FORMATION TESTING

OK

TICKET No. 15229

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

Elevation 1578 K.B. Formation Douglas Eff. Pay Ft.

District Pratt Date 5-6-82 Customer Order No.

COMPANY NAME Gaar Petroleum Co., Inc.

ADDRESS 300 Sutton Place Wichita, Ks. 67202

LEASE AND WELL NO. Nuckolls "A" #1-30 COUNTY Barber STATE Ks Sec. 30 Twp. 31S Rge. 11W

Mail Invoice To Co. Name Address No. Copies Requested

Mail Charts To Address No. Copies Requested

Formation Test No. 3 Interval Tested From 3498 ft. to 3580 ft. Total Depth 3580 ft.

Packer Depth 3493 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 3498 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3504 ft. Recorder Number 5673 Cap. 5400

Bottom Recorder Depth (Outside) 3507 ft. Recorder Number 15640 Cap. 16600

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor RRA #1 Drill Collar Length 484 I. D. 2.26 in.

Mud Type CHEM: Monopac Viscosity 47 Weight Pipe Length I. D. in.

Weight 9.1 Water Loss 12.8 cc. Drill Pipe Length 3100 I. D. 3.8 in.

Chlorides 19,000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 O.D. in.

Jars: Make Serial Number Anchor Length 20' P. / 62' D.C. / 82' Size 5 1/2 O.D. 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 X-H 16 in.

Blow: IFP- WEAK to Strong in 6 min.
FFP- Strong GTS in 25 min. → TOO WEAK TO GUAGE ←

Recovered 150 ft. of GAS Cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

RECEIVED
MAY 10 1982

Time On Location 7:30 A.M. Time Pick Up Tool 8:00 A.M. Time Off Location 5:00 A.M.

Time Set Packer(s) 9:40 A.M. Time Started Off Bottom 1:25 P.M. Maximum Temperature 121 °F

Initial Hydrostatic Pressure		(A)	1672	P.S.I.	
Initial Flow Period	Minutes 30	(B)	91	P.S.I. to (C) 54	P.S.I.
Initial Closed In Period	Minutes 60	(D)	1064	P.S.I.	
Final Flow Period	Minutes 45	(E)	109	P.S.I. to (F) 68	P.S.I.
Final Closed In Period	Minutes 90	(G)	1227	P.S.I.	
Final Hydrostatic Pressure		(H)	1645	P.S.I.	

COMPANY TERMS

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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
Signature of Customer or his authorized representative

Western Representative Earl Lee West Jr. Thanks again

FIELD INVOICE

Open Hole Test	$ 600.00
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$ 65.00
Safety Joint	$
Standby	$
Evaluation	$
Extra Packer	$
Circ. Sub.	$
Mileage	$
Fluid Sampler	$
Extra Charts	$
Insurance	$ 50.00
Telecopier	$
TOTAL	$ 715.00

WESTERN TESTING CO., INC.

Pressure Data

Date 5-6 Test Ticket No. 15229

Recorder No. 5673 Capacity 5400 Location 3504 F

Clock No. — — — — Elevation 1578 KB Well Temperature 121 °

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1702 P.S.I.		Open Tool	9:40 PM	
B	First Initial Flow Pressure	66 P.S.I.		First Flow Pressure	30 Mins.	30 Mins
C	First Final Flow Pressure	76 P.S.I.		Initial Closed-in Pressure	60 Mins.	60 Mins
D	Initial Closed-in Pressure	1086 P.S.I.		Second Flow Pressure	45 Mins.	45 Mins
E	Second Initial Flow Pressure	81 P.S.I.		Final Closed-in Pressure	90 Mins.	93 Mins
F	Second Final Flow Pressure	85 P.S.I.				
G	Final Closed-in Pressure	1246 P.S.I.				
H	Final Hydrostatic Mud	1642 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	66
P 2	5	
P 3	10	
P 4	15	66
P 5	20	68
P 6	25	71
P 7	30	76
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	76
3	145
6	245
9	330
12	424
15	500
18	579
21	645
24	694
27	746
30	792
33	832
36	872
39	909
42	943
45	975
48	1004
51	1027
54	1051
57	1072
60	1086

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

Point Minutes	Press.
0	81
5	
10	
15	
20	
25	
30	
35	
40	81
45	85
50	
55	
60	
65	
70	
75	
80	
85	
90	

Final Shut-In
Breakdown: 31 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	85
3	1119
6	1175
9	1198
12	1206
15	1213
18	1218
21	1222
24	1224
27	1226
30	1228
33	1230
36	1232
39	1234
42	1236
45	1238
48	1240
51	1242
54	1244
57	1245
60	1246

WTC - 4

WESTERN TESTING CO., INC.
Pressure Data

Date _____ Test Ticket No. 15229

Recorder No. _____ Capacity _____ Location _____

Clock No. _____ Elevation _____ Well Temperature _____

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.	Min
C First Final Flow Pressure	P.S.I.	Initial Closed-in Pressure	Mins.	Min
D Initial Closed-in Pressure	P.S.I.	Second Flow Pressure	Mins.	Min
E Second Initial Flow Pressure	P.S.I.	Final Closed-in Pressure	Mins.	Min
F Second Final Flow Pressure	P.S.I.			
G Final Closed-in Pressure	P.S.I.			
H Final Hydrostatic Mud	P.S.I.			

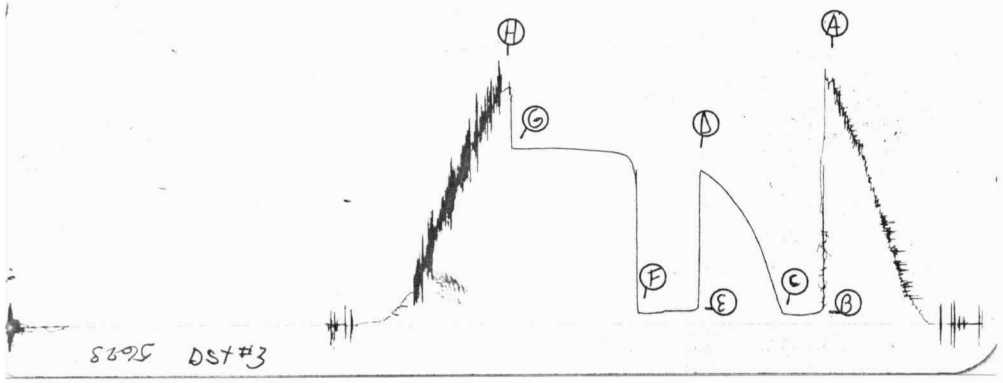
PRESSURE BREAKDOWN

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	1245
P 2		66				66	1244
P 3		69				69	
P 4		72				72	
P 5		75				75	1244
P 6		78				78	1243
P 7		81				81	1242
P 8		84				84	1241
P 9		87				87	1242
P10		90				90	1246
P11		93				93	1246
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

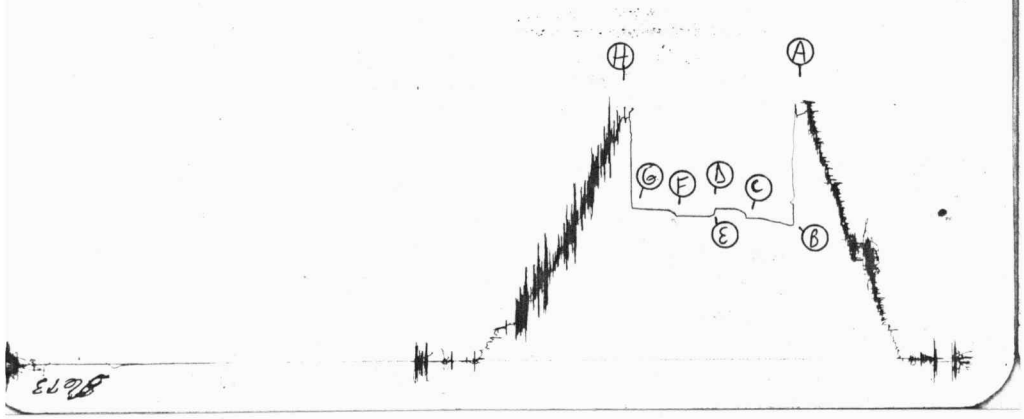
TKT # 15229

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IKT # 15230

I



Company Gear Petroleum Company, Inc. Lease & Well No. Nuckolls "A"#1-30

Elevation 1578 Kelly Bushing Formation Douglas Effective Pay - Ft. Ticket No. 15230

Date 5/7/82 Sec. 30 Twp. 31S Range 11W County Barber State Kansas

Test Approved by Ed Louis Western Representative Karl Leo West, Jr.

Formation Test No. 4 Interval Tested from 3580 ft. to 3610 ft. Total Depth 3610 ft.

Packer Depth 3575 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3580 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3586 ft. Recorder Number 5673 Cap. 5400

Bottom Recorder Depth (Outside) 3589 ft. Recorder Number 15640 Cap. 6600

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

Drilling Contractor R. R. A. Drlg. Rig #1 Drill Collar Length 484 I. D. 2.26 in.

Mud Type chem-monpac Viscosity 40 Weight Pipe Length - I. D. - in.

Weight 9.1 Water Loss 24.8 cc. Drill Pipe Length 3126 I. D. 3.8 in.

Chlorides 23,000 P.P.M. Test Tool Length 22 ft. Tool Size 5½OD in.

Jars: Make - Serial Number - Anchor Length 30 ft. Size 5½OD in.

Did Well Flow? Yes 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 4½XH in.

Blow: Initial flow period gas to surface in one minute. Flowing water in thirteen minutes. Final flow period flowing water with estimated 7,600,000 CFPD. See attached sheet for gas measurements.

Recovered ft. of

Recovered 250 ft. of clean gas cut salt water Chlorides 131,000 ppm

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Fluid sample from flowline: 14% mud; 84% water; 1% oil; 1% gas Chlorides 131,000 ppm

Time Set Packer(s) 1:40 ~~A.M.~~ P.M. Time Started Off Bottom 3:40 ~~A.M.~~ P.M. Maximum Temperature 126°

Initial Hydrostatic Pressure			(A)	1702	P.S.I.	
Initial Flow Period	Minutes	35	(B)	941 P.S.I. to (C)	992	P.S.I.
Initial Closed In Period	Minutes	24	(D)	1059	P.S.I.	
Final Flow Period	Minutes	30	(E)	1008 P.S.I. to (F)	1010	P.S.I.
Final Closed In Period	Minutes	30	(G)	1064	P.S.I.	
Final Hydrostatic Pressure			(H)	1691	P.S.I.	

GAS FLOW REPORT

Date 5/7/82 Ticket 15230 Company Gear Petroleum Company, Inc.

Well Name and No. Nuckolls "A"#1-30 Dst No. 4 Interval Tested 3580'-3610'

County Barber State Kansas Sec. 30 Twp. 31S Rg. 11W

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					
1 min.		1½" orifice			3,274,000 CFPD
5 min.		1½" orifice			4,946,000 CFPD
10 min.		1½" orifice			4,946,000 CFPD
13 min.		1½" orifice			Flowing salt water
SECOND FLOW					Flowing salt water
10 min.		2" orifice			7,600,000 CFPD
20 min.		2" orifice			7,600,000 CFPD
30 min.		2" orifice			7,600,000 CFPD

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 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 Gear Petroleum Company, Inc.

Authorized by Ed Louis

FORM WTC 6

WESTERN TESTING CO., INC.
Pressure Data

Date 5/7/82 Test Ticket No. 15230

Recorder No. 5673 Capacity 5400 Location 3586 Ft.

Clock No. -- Elevation 1578 Kelly Bushing Well Temperature 126 °F

Point		Pressure	
A	Initial Hydrostatic Mud	1702	P.S.I.
B	First Initial Flow Pressure	941	P.S.I.
C	First Final Flow Pressure	992	P.S.I.
D	Initial Closed-in Pressure	1059	P.S.I.
E	Second Initial Flow Pressure	1008	P.S.I.
F	Second Final Flow Pressure	1010	P.S.I.
G	Final Closed-in Pressure	1064	P.S.I.
H	Final Hydrostatic Mud	1691	P.S.I.

	Time Given	Time Computed
Open Tool	1:40P M	
First Flow Pressure	30 Mins.	35 Mins.
Initial Closed-in Pressure	30 Mins.	24 Mins.
Second Flow Pressure	30 Mins.	30 Mins.
Final Closed-in Pressure	30 Mins.	30 Mins.

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 7 Inc. of 5 mins. and a final inc. of 0 Min.

Point Mins.	Press.
P 1 0	941
P 2 5	945
P 3 10	962
P 4 15	968
P 5 20	984
P 6 25	992
P 7 30	992
P 8 35	992
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 8 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	992
3	1039
6	1053
9	1055
12	1057
15	1056
18	1057
21	1057
24	1059

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

Point Minutes	Press.
0	1008
5	1008
10	1008
15	1008
20	1008
25	1009
30	1010

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

Point Minutes	Press.
0	1010
3	1041
6	1050
9	1051
12	1052
15	1054
18	1056
21	1058
24	1060
27	1062
30	1064

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET Nº 15231

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

Elevation 1578 K.B. Formation Mississippian Eff. Pay ____ Ft.

District Pratt Date 5-9-82 Customer Order No. ____

COMPANY NAME Gaar Petroleum Co., Inc.

ADDRESS 300 Sutton Place Wichita, Ks.

LEASE AND WELL NO. Nuckolls "A" #1-30 COUNTY Barber STATE Ks Sec. 30 Twp. 31S Rge. 11W

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

Mail Charts To ____ (Address) ____ No. Copies Requested ____

Formation Test No. 5 Interval Tested From 4305 ft. to 4334 ft. Total Depth 4334 ft.

Packer Depth 4300 ft. Size 6 3/4 in. Packer Depth ____ ft. Size ____ in.

Packer Depth 4305 ft. Size 6 3/4 in. Packer Depth ____ ft. Size ____ in.

Depth of Selective Zone Set ____

Top Recorder Depth (Inside) 4311 ft. Recorder Number 5673 Cap. 5400

Bottom Recorder Depth (Outside) 4314 ft. Recorder Number 15640 Cap. 6600

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

Drilling Contractor RRA #1 Drill Collar Length 184 I. D. 2.26 in.

Mud Type CHEM-Monopac Viscosity 42 Weight Pipe Length ____ I. D. ____ in.

Weight 9.1 Water Loss 10.4 cc. Drill Pipe Length 3875 I. D. 3.8 in.

Chlorides 116,000 P.P.M. Test Tool Length 22 ft. Tool Size 5½ O.D. in.

Jars: Make ____ Serial Number ____ Anchor Length 29 ft. Size 5½ O.D. 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 4½ X-Hole in.

Blow: IFP- V. WEAK (1/4" under water) Decreased to Surface of water
FFP- V. WEAK (Surface of water) Dead in 12 min.

Recovered 70 ft. of HEAVY MUD

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Remarks: ____

Time On Location 5:00 A.M. (P.M.) Time Pick Up Tool 7:00 A.M. (P.M.) Time Off Location 3:00 (A.M.) P.M.

Time Set Packer(s) 9:15 A.M. (P.M.) Time Started Off Bottom 11:15 A.M. (P.M.) Maximum Temperature 126 °F

Initial Hydrostatic Pressure		(A)	2091	P.S.I.		
Initial Flow Period	Minutes 30	(B)	54	P.S.I. to (C)	68	P.S.I.
Initial Closed In Period	Minutes 30	(D)	109	P.S.I.		
Final Flow Period	Minutes 30	(E)	91	P.S.I. to (F)	68	P.S.I.
Final Closed In Period	Minutes 30	(G)	95	P.S.I.		
Final Hydrostatic Pressure		(H)	2091	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 ____
Signature of Customer or his authorized representative

Western Representative Karl Thomas Thanks again

FIELD INVOICE

Open Hole Test	$ 675.00
Misrun	$ ____
Straddle Test	$ ____
Jars	$ ____
Selective Zone	$ ____
Safety Joint	$ 65.00
Standby	$ ____
Evaluation	$ ____
Extra Packer	$ ____
Circ. Sub.	$ ____
Mileage	$ ____
Fluid Sampler	$ ____
Extra Charts	$ ____
Insurance	$ ____
Telecopier	$ ____
TOTAL	$ 740.00

WESTERN TESTING CO., INC.

Pressure Data

Date 5-9 | Test Ticket No. 15231

Recorder No. 5673 | Capacity 5400 | Location 4311 | I

Clock No. — — — — | Elevation 1578 KB | Well Temperature 126 °

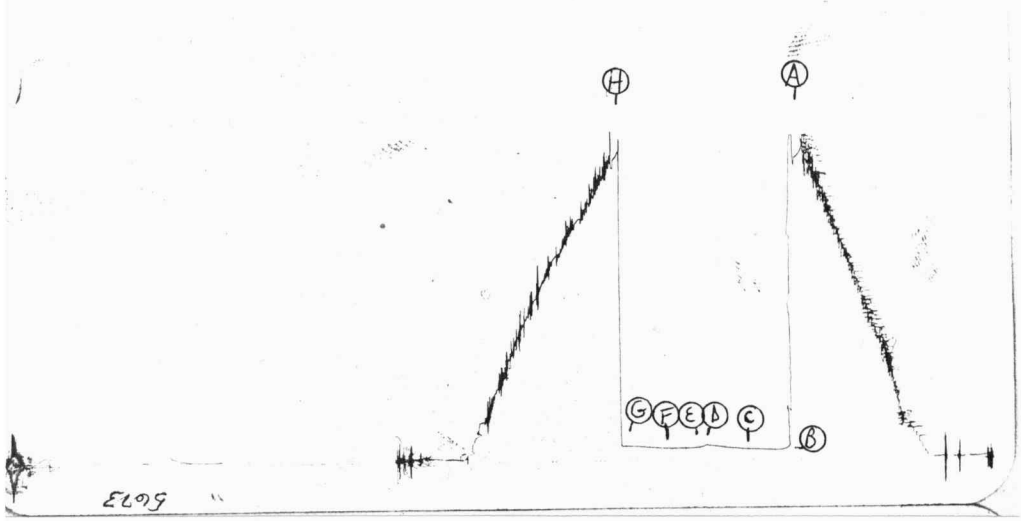
Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2122 P.S.I.		Open Tool	9:15 PM	
B	First Initial Flow Pressure	77 P.S.I.		First Flow Pressure	30 Mins.	30 Min
C	First Final Flow Pressure	82 P.S.I.		Initial Closed-in Pressure	30 Mins.	30 Min
D	Initial Closed-in Pressure	112 P.S.I.		Second Flow Pressure	30 Mins.	30 Min
E	Second Initial Flow Pressure	92 P.S.I.		Final Closed-in Pressure	30 Mins.	33 Min
F	Second Final Flow Pressure	92 P.S.I.				
G	Final Closed-in Pressure	107 P.S.I.				
H	Final Hydrostatic Mud	2109 P.S.I.				

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 6 Inc.		Breakdown: 10 Inc.		Breakdown: 6 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 Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	77	0	82	0	92	0	92
P 2 5	77	3	84	5		3	94
P 3 10	77	6	86	10		6	96
P 4 15	78	9	88	15		9	98
P 5 20	79	12	91	20		12	100
P 6 25	80	15	95	25		15	103
P 7 30	82	18	99	30	92	18	104
P 8 35		21	103	35		21	105
P 9 40		24	107	40		24	106
P10 45		27	110	45		27	107
P11 50		30	112	50		30	107
P12 55		33		55		33	107
P13 60		36		60		36	
P14		39		65		39	
P15		42		70		42	
P16		45		75		45	
P17		48		80		48	
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	

TKT # 15231

I



Company Gear Petroleum Corporation, Inc. Lease & Well No. Nuckolls "A" #1-30

Elevation 1578 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 15231

Date 5/9/82 Sec. 30 Twp. 31S Range 11W County Barber State Kansas

Test Approved by Ed Louis Western Representative Karl Leo West, Jr.

Formation Test No. 5 Interval Tested from 4305 ft. to 4334 ft. Total Depth 4334 ft.

Packer Depth 4300 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4305 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4311 ft. Recorder Number 5673 Cap. 5400

Bottom Recorder Depth (Outside) 4314 ft. Recorder Number 15640 Cap. 6600

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

Drilling Contractor R. R. A. Drilling Rig #1 Drill Collar Length 484 I. D. 2.26 in.

Mud Type chem-monpac Viscosity 42 Weight Pipe Length - I. D. - in.

Weight 9.1 Water Loss 10.4 cc. Drill Pipe Length 3875 I. D. 3.8 in.

Chlorides 16,000 P.P.M. Test Tool Length 22 ft. Tool Size 5½OD in.

Jars: Make - Serial Number - Anchor Length 29 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 4½XH in.

Blow: Initial flow period very weak (one fourth inch under water) decreased to surface of water. Final flow period very weak (surface of water) and dead in twelve minutes.

Recovered 70 ft. of heavy mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 9:15 ~~A.M.~~ P.M. Time Started Off Bottom 11:15 ~~A.M.~~ P.M. Maximum Temperature 126°

Initial Hydrostatic Pressure			(A)	2122	P.S.I.	
Initial Flow Period	Minutes	30	(B)	77 P.S.I. to (C)	82	P.S.I.
Initial Closed In Period	Minutes	30	(D)	112	P.S.I.	
Final Flow Period	Minutes	30	(E)	92 P.S.I. to (F)	92	P.S.I.
Final Closed In Period	Minutes	33	(G)	107	P.S.I.	
Final Hydrostatic Pressure			(H)	2109	P.S.I.	

WESTERN TESTING CO., INC.

Pressure Data

Date 5/9/82 Test Ticket No. 15231

Recorder No. 5673 Capacity 5400 Location 4311 Ft.

Clock No. ---- Elevation 1578 Kelly Bushing Well Temperature 126 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2122 P.S.I.	Open Tool		9:15P M	
B	First Initial Flow Pressure	77 P.S.I.	First Flow Pressure		30 Mins.	30 Mins.
C	First Final Flow Pressure	82 P.S.I.	Initial Closed-in Pressure		30 Mins.	30 Mins.
D	Initial Closed-in Pressure	112 P.S.I.	Second Flow Pressure		30 Mins.	30 Mins.
E	Second Initial Flow Pressure	92 P.S.I.	Final Closed-in Pressure		30 Mins.	33 Mins.
F	Second Final Flow Pressure	92 P.S.I.				
G	Final Closed-in Pressure	107 P.S.I.				
H	Final Hydrostatic Mud	2109 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	77
P 2 5	77
P 3 10	77
P 4 15	78
P 5 20	79
P 6 25	80
P 7 30	82
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.
0	82
3	84
6	86
9	88
12	91
15	95
18	99
21	103
24	107
27	110
30	112

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

Point Minutes	Press.
0	92
5	92
10	92
15	92
20	92
25	92
30	92

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

Point Minutes	Press.
0	92
3	94
6	96
9	98
12	100
15	103
18	104
21	105
24	106
27	107
30	107
33	107