



P. O. BOX 793 PHONE 793-7903
GREAT BEND, KANSAS

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET 24286
1526 K.B.
Formation Torkio Elevation 1490 Eff. Pay Ft.

District Augusta Date 4-2-76 Customer Order No.

COMPANY NAME Gear Petroleum Operating Company
ADDRESS Asst. Mgr. Wichita Ks 1325 Wichita St Bldg.

BASE AND WELL NO. Boileau 1 COUNTY Kingman STATE Kansas Sec 30 Twp. 30S Rge. 6W

Oil Inv. To Same As Above No. Copies Requested Usual

Oil Charts To Same As Above No. Copies Requested Usual

Co. Name Address

Formation Test No. 1 O.K. ✓ Misrun — Interval Tested From 2205' to 2231' Total Depth 2231'

Re Main Hole 7 3/8 Rat Hole — Conv. — B.T. X Damaged — Yes X No Conv. X B.T. — Damaged — Yes X No

Bottom Packer Depth 2200 Ft. Size 6 3/4 Bottom Packer Depth 2205 Ft. Size 6 3/4

Tool Joint Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 26 Ft. Size 5 1/2 OD Surface Choke Size 3 1/4 In.

CORDERS Depth 2219 Ft. Clock No. 6895 Depth 2222 Ft. Clock No. 4964

Top Make KUSTER Cap. 4200 No. 1559 Inside — Outside — Bottom Make KUSTER Cap. 3200 No. 1561 Inside — Outside —

Flow Straddle: Depth — Rec. No. — Clock No. — Inside — Outside —

Line Set Packer 7:43 AM

Oil Open I.F.P. From 7:45A M. to 8:15A M. — Hr. 30 Min. From (B) 20 27 P.S.I. To (C) 114 120 P.S.I.

Oil Closed I.C.I.P. From 8:15A M. to 8:45A M. — Hr. 30 Min. (D) 814 822 P.S.I.

Oil Open F.F.P. From 8:45A M. to 9:30A M. — Hr. 45 Min. From (E) 156 165 P.S.I. To (F) 261 275 P.S.I.

Oil Closed F.C.I.P. From 9:30A M. to 10:15A M. — Hr. 45 Min. (G) 814 818 P.S.I.

Initial Hydrostatic Pressure (A) 1106 P.S.I. Final Hydrostatic Pressure (H) 1106 P.S.I. Maximum Temp. 94

INFORMATION

LOW First open strong blow - 2nd open strong decreased to fair blow

Oil Well Flow — Yes — No — Recovery Total Ft. 560' Water

Reversed Out — Yes — No — Mud Type Gel Viscosity 36 Weight 2 Water Loss 7 cc. Chlorides ?

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint T.I.T. Yes Jars: Size 4 3/4 OD In. Make WTC Ser. No. 411

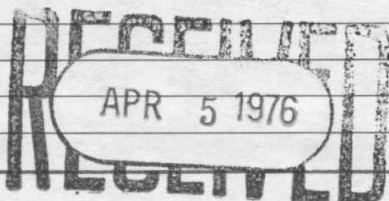
Tool Joints Yes Did Packers Hold? Yes Did Tool Plug? No Where?

DRILLING CONTRACTOR Red Tiger rig 6 Length Drill Pipe 104 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe 136 ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 4 1/2 FH In. Length Drill Collars — ft. I.D. Drill Collars — In.

Tool Joint Size — In. Length D.S.T. Tool 59 ft.

Remarks



INVOICE SECTION

Open Hole Test	\$ 320.00
Straddle Test	\$ 150.00
Jars	\$ 30.00
Selective Zone	\$ 30.00
Safety Joint	\$ 30.00
Misrun	\$ 0.00
Evaluation	\$ 0.00
Packer	\$ 0.00
Circ. Sub.	\$ 0.00
Total	\$ 500.00

COMPANY TERMS

Western Testing Co., Inc., shall not be liable for damage 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, or 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.

Charges subject to 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Signature of Customer or his Authorized Representative Bruce Brooks

Western Representative Roy Pendallay
Operator's Time

WESTERN TESTING CO., INC.

Pressure Data

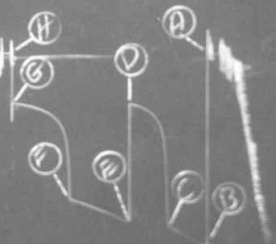
ate 4-2-76 Test Ticket No. 24286
 Recorder No. 1559 Capacity 4200 Location 2219 Ft.
 Clock No. 6895 Elevation 1526 AB Well Temperature 94 °F
 Point Pressure Time Given Time Computed
 Initial Hydrostatic Mud 1111 P.S.I. Open Tool 7:43 AM
 First Initial Flow Pressure 27 P.S.I. First Flow Pressure 30 Mins. 30 Mins.
 First Final Flow Pressure 126 P.S.I. Initial Closed-in Pressure 30 Mins. 30 Mins.
 Initial Closed-in Pressure 822 P.S.I. Second Flow Pressure 45 Mins. 47 Mins.
 Second Initial Flow Pressure 165 P.S.I. Final Closed-in Pressure 45 Mins. 45 Mins.
 Second Final Flow Pressure 275 P.S.I.
 Final Closed-in Pressure 818 P.S.I.
 Final Hydrostatic Mud 1101 P.S.I.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>15</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>2</u> Min.		final inc. of <u>0</u> Min.	
Point mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
1 0	27	0	126	0	165	0	275
2 5	35	3	506	5	163	3	591
3 10	54	6	662	10	179	6	672
4 15	76	9	720	15	194	9	709
5 20	95	12	753	20	209	12	735
6 25	113	15	774	25	223	15	752
7 30	126	18	789	30	237	18	766
8 35		21	800	35	249	21	778
9 40		24	810	40	262	24	786
10 45		27	816	45	275	27	792
11 50		30	822	50 47	275	30	797
12 55		33		55		33	804
13 60		36		60		36	808
14		39		65		39	812
15		42		70		42	815
16		45		75		45	818
17		48		80		48	
18		51		85		51	
19		54		90		54	
20		57				57	
		60				60	

TAT# 24286

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

Company Gear Operating Company Lease & Well No. Boileau #1
Elevation 1526 Kelly Bushing Formation Torkio Effective Pay - Ft. Ticket No. 24286
Date 4-2-76 Sec. 30 Twp. 30S Range 6W County Kingman State Kansas
Test Approved by Benton S. Brooks Western Representative Roy Pendlay
Formation Test No. 1 O.K. ☒ Misrun ☐ Interval Tested From 2205' to 2231' Total Depth 2231'
Size Main Hole 77/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No
Top Packer Depth 2200 Ft. Size 6 3/4 Bottom Packer Depth 2205 Ft. Size 6 3/4
Straddle ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No Packer Depth - Ft. Size -
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 26 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 2219 Ft. Clock No. 6895 Depth 2222 Ft. Clock No. 4964
Top Make Kuster Cap. 4200 No. 1559 Inside Outside Bottom Make Kuster Cap. 3200 No. 1561 Inside Outside
Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside
Time Set Packer 7:43 A. M
Tool Open I.F.P. From 7:45A M. to 8:15A M. - Hr. 30 Min. From (B) 27 P.S.I. To (C) 126 P.S.I.
Tool Closed I.C.I.P. From 8:15A M. to 8:45A M. - Hr. 30 Min (D) 822 P.S.I.
Tool Open F.F.P. From 8:45A M. to 9:30A M. - Hr. 45 Min. From (E) 165 P.S.I. To (F) 275 P.S.I.
Tool Closed F.C.I.P. From 9:30A M. to 10:15A M. - Hr. 45 Min. (G) 818 P.S.I.
Initial Hydrostatic Pressure (A) 1111 P.S.I. Final Hydrostatic Pressure (H) 1101 P.S.I. Maximum Temp. 94

INFORMATION

BLOW Strong blow decreasing to a fair blow throughout test.
Did Well Flow ☐ Yes ☒ No Recovery Total Ft. 560' water
Reversed Out ☐ Yes ☒ No Mud Type gel Viscosity 36 Weight - Water Loss - cc. Chlorides -
EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint yes Jars: Size 4 3/4 In. Make WTC Ser. No. 411
Dual Packer yes Did Packers Hold? yes Did Tool Plug? no Where? -
DRILLING CONTRACTOR Red Tiger Drlg. Co. Length Drill Pipe 1041 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.
Length Weight Pipe 1136 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 4 1/2 FH In. Length Drill Collars - Ft. I.D. Drill Collars - In.
Tool Joint Size - In. Length D.S.T. Tool 54 Ft.
Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 4-2-76 Test Ticket No. 24286

Recorder No. 1559 Capacity 4200 Location 2219 Ft.

Clock No. 6895 Elevation 1526 Kelly Bushing Well Temperature 94 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1111 P.S.I.	Open Tool	7:43 A. M	
B First Initial Flow Pressure	27 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	126 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	822 P.S.I.	Second Flow Pressure	45 Mins.	47 Mins.
E Second Initial Flow Pressure	165 P.S.I.	Final Closed-in Pressure	45 Mins.	45 Mins.
F Second Final Flow Pressure	275 P.S.I.			
G Final Closed-in Pressure	818 P.S.I.			
H Final Hydrostatic Mud	1101 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>15</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>2</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>27</u>	<u>0</u>	<u>126</u>	<u>0</u>	<u>165</u>	<u>0</u>	<u>275</u>
P 2 <u>5</u>	<u>35</u>	<u>3</u>	<u>506</u>	<u>5</u>	<u>163</u>	<u>3</u>	<u>591</u>
P 3 <u>10</u>	<u>54</u>	<u>6</u>	<u>662</u>	<u>10</u>	<u>179</u>	<u>6</u>	<u>672</u>
P 4 <u>15</u>	<u>76</u>	<u>9</u>	<u>720</u>	<u>15</u>	<u>194</u>	<u>9</u>	<u>709</u>
P 5 <u>20</u>	<u>95</u>	<u>12</u>	<u>753</u>	<u>20</u>	<u>209</u>	<u>12</u>	<u>735</u>
P 6 <u>25</u>	<u>113</u>	<u>15</u>	<u>774</u>	<u>25</u>	<u>223</u>	<u>15</u>	<u>752</u>
P 7 <u>30</u>	<u>126</u>	<u>18</u>	<u>789</u>	<u>30</u>	<u>237</u>	<u>18</u>	<u>766</u>
P 8		<u>21</u>	<u>800</u>	<u>35</u>	<u>249</u>	<u>21</u>	<u>778</u>
P 9		<u>24</u>	<u>810</u>	<u>40</u>	<u>262</u>	<u>24</u>	<u>786</u>
P10		<u>27</u>	<u>816</u>	<u>45</u>	<u>275</u>	<u>27</u>	<u>792</u>
P11		<u>30</u>	<u>822</u>	<u>47</u>	<u>275</u>	<u>30</u>	<u>797</u>
P12						<u>33</u>	<u>804</u>
P13						<u>36</u>	<u>808</u>
P14						<u>39</u>	<u>812</u>
P15						<u>42</u>	<u>815</u>
P16						<u>45</u>	<u>818</u>
P17							
P18							
P19							
P20							



P. O. BOX 793 PHONE 793-7903
GREAT BEND, KANSAS

WESTERN TESTING CO., INC. FORMATION TESTING

TICKET **24290**

Formation Missouri Elevation 1526 Ft. Eff. Pay Bushing

District Augusta Date 4-7-76 Customer Order No. _____

COMPANY NAME Gear Petroleum Company Operating Co.
ADDRESS 155 Band T Bldg, Wichita, Ks.

BASE AND WELL NO. Boileau 1 COUNTY Kingman STATE Kansas Sec. 30 Twp. 30S Rge. 6W

Oil Inv. To Same Co. Name _____ Address _____ No. Copies Requested 1

Oil Charts To Same Address _____ No. Copies Requested 5

Formation Test No. 2 O.K. X Misrun - Interval Tested From 4228' to 4244' Total Depth 4244'

Open Main Hole 73 Rat Hole - Conv. - B.T. X Damaged - Yes X No Conv. X B.T. - Damaged - Yes X No

Packer Depth 4223 Ft. Size 63/4 Bottom Packer Depth 4228 Ft. Size 63/4

Address - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -

Tool Joint Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 16 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

CORDERS Depth 4230 Ft. Clock No. 6895 Depth 4233 Ft. Clock No. 4964

Top Make Kuster Cap. 4200 No. 1559 Inside Outside Bottom Make Kuster Cap. 3200 No. 1561 Inside Outside

Flow Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Rec. No. - Clock No. - Inside Outside

Open Set Packer 6:19 P.M.

Open I.F.P. From 6:20 M. to 7:05 M. Hr. 45 Min. From (B) 6:20 P.S.I. To (C) 8378 P.S.I.

Open Closed I.C.I.P. From 7:05 M. to 7:50 M. Hr. 45 Min. (D) 1326 P.S.I. To (E) 1335 P.S.I.

Open Open F.F.P. From 7:50 M. to 8:50 M. Hr. 60 Min. From (E) 9483 P.S.I. To (F) 120 P.S.I.

Open Closed F.C.I.P. From 8:50 M. to 9:50 M. Hr. 60 Min. (G) 1273 P.S.I. To (H) 1273 P.S.I.

Initial Hydrostatic Pressure (A) 2242 P.S.I. Final Hydrostatic Pressure (H) 2232 P.S.I. Maximum Temp. -

INFORMATION

Flow Strong blow of gas to surface in 12 minutes

Open Well Flow - Yes X No - Recovery Total Ft. 150' gas cut mud with oil specks.

120' gassy mud cut SALT water, spotted oil. 270' total

70' total fluid recovery. with spud tool.

Reversed Out - Yes X No - Mud Type starch Viscosity 43 Weight 9 Water Loss 12.8 cc. Chlorides 51,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Tool Joints: yes Did Packers Hold? yes Did Tool Plug? No Where? -

DRILLING CONTRACTOR Red Tiger Length Drill Pipe 3,072 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe 1136 ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 4 1/2 FH In. Length Drill Collars - ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 26 In.

Remarks see attached gas sheet for measurements.

RECEIVED APR 8 1976

INVOICE SECTION

Open Hole Test \$ 355.00

Straddle Test \$ -

Jars \$ -

Selective Zone \$ -

Safety Joint \$ -

Misrun \$ -

Evaluation \$ -

Packer \$ -

Circ. Sub. \$ -

Total \$ 355.00

COMPANY TERMS

Western Testing Co., Inc., shall not be liable for damage of any kind to the property or personnel

the one for whom a test is made or for any loss suffered or sustained directly or indirectly

through the use of its equipment, or 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.

Charges subject to 10% interest after 60 days from date of invoice. Any expense incurred for

section will be added to the original amount.

Signature of Customer or his Authorized Representative David W. Vike Western Representative Roy Pendley

Operator's Time _____ Hrs.

WESTERN TESTING CO., INC. Pressure Data

4-7-76
Order No. 1559 Capacity 4200 Location 4230 Pt.
Well No. 6895 Elevation 1526 AB Well Temperature — °F
Time Given 6:19 P.M. Time Computed
Initial Hydrostatic Mud 2257 P.S.I. Open Tool
First Initial Flow Pressure 63 P.S.I. First Flow Pressure 45 Mins. 45 Mins.
First Final Flow Pressure 78 P.S.I. Initial Closed-in Pressure 45 Mins. 45 Mins.
Initial Closed-in Pressure 1335 P.S.I. Second Flow Pressure 60 Mins. 60 Mins.
Second Initial Flow Pressure 93 P.S.I. Final Closed-in Pressure 60 Mins. 60 Mins.
Second Final Flow Pressure 131 P.S.I.
Final Closed-in Pressure 1277 P.S.I.
Final Hydrostatic Mud 2228 P.S.I.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 9 Inc.		Breakdown: 15 Inc.		Breakdown: 12 Inc.		Breakdown: 21 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.	
nt is.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
0	63	0	78	0	93	0	131
5	52	3	750	5	84	3	708
10	55	6	1006	10	87	6	931
15	55	9	1115	15	92	9	1023
20	58	12	1169	20	95	12	1079
25	60	15	1202	25	101	15	1116
30	65	18	1227	30	105	18	1143
35	69	21	1249	35	109	21	1163
40	74	24	1272	40	113	24	1180
45	78	27	1284	45	118	27	1194
50		30	1296	50	123	30	1208
55		33	1305	55	127	33	1216
60		36	1315	60	131	36	1226
		39	1322	65		39	1234
		42	1328	70		42	1240
		45	1335	75		45	1247
		48		80		48	1253
		51		85		51	1259
		54		90		54	1263
		57				57	1269
		60				60	1273
						63	1277

WTC - 4

Phone 316 262-5861
316 838-0601



P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

N^o 161

Date 4-7-76 Ticket 24290 Company Gear Petroleum CO.
Well Name and No. Boileau 1 Dst No. 2 Interval Tested 4228-4244
County Kingman State Kansas Sec. 30 Twp. 30S Rg. 6W

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 12 min. PRE FLOW						
0 min.	6:20 PM	1/2 Orifice	35	Inc. of water		36,000 C.F.P.D.
5 min.	6:25 PM	" "	35	" "	"	36,000 "
10 "	6:30 PM	" "	50	" "	"	44,300 "
15 "	6:35 PM	" "	61	" "	"	48,900 "
20 "	6:40 PM	" "	62	" "	"	49,400 "
25 "	6:45 PM	" "	65	" "	"	50,500 "

SECOND FLOW

30 "	6:50 PM	" "	73	" "	"	53,500 "
SECOND FLOW						
0 "	7:50 PM	" "	10	PSIG		116,000 "
5 "	7:55 PM	" "	7	" "		94,500 "
10 "	8:00 PM	" "	4 1/2	" "		73,600 "
15 "	8:05 PM	" "	93	Inc. of water		60,400 "
20 "	8:10 PM	" "	78	" "	"	55,300 "
25 "	8:15 PM	" "	72	" "	"	53,200 "
30 "	8:20 PM	" "	70	" "	"	52,400 "
35 "	8:25 PM	" "	63	" "	"	49,800 "
40 "	8:30 PM	" "	64	" "	"	50,200 "
45 "	8:35 PM	" "	64	" "	"	50,200 "
50 "	8:40 PM	" "	62	" "	"	49,400 "
55 "	8:45 PM	" "	61	" "	"	49,000 "
60 "	8:50 PM	" "	61	" "	"	49,000 "

Serial No. 8:50 P.M. Date Bottle Filled

Date to be Invoiced

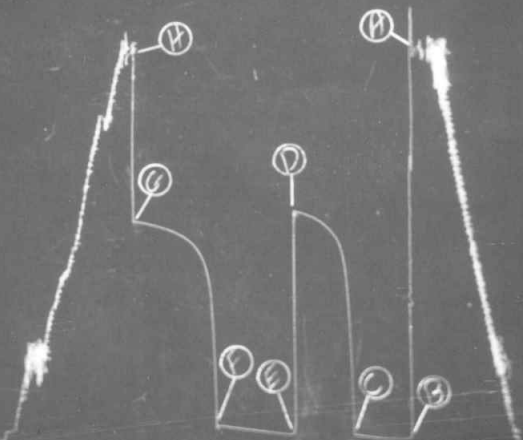
Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By 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 Operating Co.
Authorized by James W. Fife

711# 24290

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

Company Gear Operating Co. Lease & Well No. Boileau #1
Elevation 1526 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 24290
Date 4-7-76 Sec. 30 Twp. 30S Range 6W County Kingman State Kansas
Test Approved by Gerald W. Pike Western Representative Roy Pendlay
Formation Test No. 2 O.K. ☒ Misrun ☐ Interval Tested from 4228' to 4244' Total Depth 4244'
Size Main Hole 77/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No
Top Packer Depth 4223 Ft. Size 6 3/4 Bottom Packer Depth 4228 Ft. Size 6 3/4
Straddle ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No Packer Depth ☐ Ft. Size ☐
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 16 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 4230 Ft. Clock No. 6895 Depth 4233 Ft. Clock No. 4964
Top Make Kuster Cap. 4200 No. 1559 Inside Bottom Make Kuster Cap. 3200 No. 1561 Inside
Below Straddle: Depth ☐ Rec. No. ☐ Clock No. ☐ Inside Depth ☐ Ft. Rec. No. ☐ Clock No. ☐ Inside
Time Set Packer 6:19 P. M
Tool Open I.F.P. From 6:20P M. to 7:05P M. - Hr. 45 Min. From (B) 63 P.S.I. To (C) 78 P.S.I.
Tool Closed I.C.I.P. From 7:05P M. to 7:50P M. - Hr. 45 Min (D) 1335 P.S.I.
Tool Open F.F.P. From 7:50P M. to 8:50P M. - Hr. 60 Min. From (E) 93 P.S.I. To (F) 131 P.S.I.
Tool Closed F.C.I.P. From 8:50P M. to 9:50P M. - Hr. 60 Min. (G) 1277 P.S.I.
Initial Hydrostatic Pressure (A) 2257 P.S.I. Final Hydrostatic Pressure (H) 2228 P.S.I. Maximum Temp. -

INFORMATION

BLOW Strong blow throughout test. Gas to surface in 12 minutes.

Did Well Flow - ☒ Yes ☐ No Recovery Total Ft. 150' gas cut mud with oil specks. 120' gassy mud cut
salt water with specks of oil. 270' total fluid recovery.

Reversed Out - ☒ Yes ☐ No Mud Type starch Viscosity 43 Weight 9. Water Loss 12.8 cc. Chlorides 51,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint ☐ Jars: Size ☐ In. Make ☐ Ser. No. ☐

Dual Packer yes Did Packers Hold? yes Did Tool Plug? no Where? ☐

DRILLING CONTRACTOR Red Tiger Drlg. Co. Length Drill Pipe? 3072 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe 1136 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 4 1/2 FH In. Length Drill Collars ☐ Ft. I.D. Drill Collars ☐ In.

Tool Joint Size ☐ In. Length D.S.T. Tool 36 Ft.

Remarks: See attached sheet for gas measurements

Phone 316 262-5861
316 838-0601



P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

Date 4-7-76 Ticket 24290 Company Gear Operating Co.
Well Name and No. Boileau #1 Dst No. 2 Interval Tested 4228' to 4244'
County Kingman State Kansas Sec. 30 Twp. 30s Rg. 6W

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						
6:20 PM	0 min	1/2" orifice	35" of water			36,000 C.F.P.D.
6:25 PM	5 min	1/2" orifice	35" of water			36,000 C.F.P.D.
6:30 PM	10 min	1/2" orifice	50" of water			44,300 C.F.P.D.
6:35 PM	15 min	1/2" orifice	61" of water			48,900 C.F.P.D.
6:40 PM	20 min	1/2" orifice	62" of water			49,400 C.F.P.D.
6:45 PM	25 min	1/2" orifice	65" of water			50,500 C.F.P.D.
6:50 PM	30 min	1/2" orifice	73" of water			53,500 C.F.P.D.
SECOND FLOW						
7:50 PM	0 min	1/2" orifice	10 PSIG			116,000 C.F.P.D.
7:55 PM	5 min	1/2" orifice	7 PSIG			94,500 C.F.P.D.
8:00 PM	10 min	1/2" orifice	4 1/2 PSIG			73,600 C.F.P.D.
8:05 PM	15 min	1/2" orifice	93" of water			60,400 C.F.P.D.
8:10 PM	20 min	1/2" orifice	78" of water			55,300 C.F.P.D.
8:15 PM	25 min	1/2" orifice	72" of water			53,200 C.F.P.D.
8:20 PM	30 min	1/2" orifice	70" of water			52,400 C.F.P.D.
8:25 PM	35 min	1/2" orifice	63" of water			49,800 C.F.P.D.
8:30 PM	40 min	1/2" orifice	64" of water			50,200 C.F.P.D.
8:35 PM	45 min	1/2" orifice	64" of water			50,200 C.F.P.D.
8:40 PM	50 min	1/2" orifice	62" of water			49,400 C.F.P.D.
8:45 PM	55 min	1/2" orifice	61" of water			49,000 C.F.P.D.
8:50 PM	60 min	1/2" orifice	61" of water			49,000 C.F.P.D.

Serial No. - Date Bottle Filled 4-7-76 Date to be Invoiced 4-7-76

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 Operating Co.

Authorized by Gerald W. Pike

WESTERN TESTING CO., INC. **Pressure Data**

Date 4-7-76 Test Ticket No. 24290
Recorder No. 1559 Capacity 4200 Location 4230 Ft.
Clock No. 6895 Elevation 1526 Kelly Bushing Well Temperature - °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2257</u> P.S.I.	Open Tool	<u>6:19 P.M.</u>	
B First Initial Flow Pressure	<u>63</u> P.S.I.	First Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>78</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1335</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>93</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>131</u> P.S.I.			
G Final Closed-in Pressure	<u>1277</u> P.S.I.			
H Final Hydrostatic Mud	<u>2228</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>21</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>63</u>	<u>0</u>	<u>78</u>	<u>0</u>	<u>93</u>	<u>0</u>	<u>131</u>
P 2 <u>5</u>	<u>52</u>	<u>3</u>	<u>750</u>	<u>5</u>	<u>84</u>	<u>3</u>	<u>708</u>
P 3 <u>10</u>	<u>56</u>	<u>6</u>	<u>1006</u>	<u>10</u>	<u>87</u>	<u>6</u>	<u>931</u>
P 4 <u>15</u>	<u>55</u>	<u>9</u>	<u>1115</u>	<u>15</u>	<u>92</u>	<u>9</u>	<u>1023</u>
P 5 <u>20</u>	<u>58</u>	<u>12</u>	<u>1169</u>	<u>20</u>	<u>95</u>	<u>12</u>	<u>1079</u>
P 6 <u>25</u>	<u>60</u>	<u>15</u>	<u>1202</u>	<u>25</u>	<u>101</u>	<u>15</u>	<u>1116</u>
P 7 <u>30</u>	<u>65</u>	<u>18</u>	<u>1227</u>	<u>30</u>	<u>105</u>	<u>18</u>	<u>1143</u>
P 8 <u>35</u>	<u>69</u>	<u>21</u>	<u>1249</u>	<u>35</u>	<u>109</u>	<u>21</u>	<u>1163</u>
P 9 <u>40</u>	<u>74</u>	<u>24</u>	<u>1272</u>	<u>40</u>	<u>113</u>	<u>24</u>	<u>1180</u>
P10 <u>45</u>	<u>78</u>	<u>27</u>	<u>1284</u>	<u>45</u>	<u>118</u>	<u>27</u>	<u>1194</u>
P11		<u>30</u>	<u>1296</u>	<u>50</u>	<u>123</u>	<u>30</u>	<u>1205</u>
P12		<u>33</u>	<u>1305</u>	<u>55</u>	<u>127</u>	<u>33</u>	<u>1216</u>
P13		<u>36</u>	<u>1315</u>	<u>60</u>	<u>131</u>	<u>36</u>	<u>1226</u>
P14		<u>39</u>	<u>1322</u>			<u>39</u>	<u>1234</u>
P15		<u>42</u>	<u>1328</u>			<u>42</u>	<u>1240</u>
P16		<u>45</u>	<u>1335</u>			<u>45</u>	<u>1247</u>
P17						<u>48</u>	<u>1253</u>
P18						<u>51</u>	<u>1259</u>
P19						<u>54</u>	<u>1263</u>
P20						<u>57</u>	<u>1269</u>
						<u>60</u>	<u>1273</u>
						<u>63</u>	<u>1277</u>



P. O. BOX 793 PHONE 793-7903

GREAT BEND, KANSAS

WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET

24291

Formation Missouri Elevation 1526 KB Eff. Pay _____ Ft.District Augusta Date 4-8-76 Customer Order No. _____COMPANY NAME Gear Petroleum Operating Co. 1325 JokersADDRESS 1538 East Blvd., Wichita KansasLEASE AND WELL NO. Boileau 1 COUNTY Kingman STATE Kansas Sec. 30 Twp. 30S Rge. 6WMail Inv. To same Co. Name _____ Address _____ No. Copies Requested 1Mail Charts To same Address _____ No. Copies Requested 5Formation Test No. 3 O.K. X Misrun - Interval Tested From 4244 to 4260' Total Depth 4260Size Main Hole 7 7/8 Rat Hole - Conv. - B.T. X Damaged - Yes X No Conv. X B.T. - Damaged X Yes - NoTop Packer Depth 4239 Ft. Size 6 3/4 Bottom Packer Depth 4244 Ft. Size 6 3/4Straddle - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 16 Ft. Size 5 1/2 OD Surface Choke Size 34 In. Bottom Choke Size 34 In.RECORDERS Depth 4247 Ft. Clock No. 6895 Depth 4249 Ft. Clock No. 4964Top Make Kuster Cap. 4200 No. 1559 Inside Outside Bottom Make Kuster Cap. 3200 No. 1561 Inside OutsideBelow Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside OutsideTime Set Packer 10:49 AMTool Open I.F.P. From 10:50A M. to 11:35A M. Hr. 45 Min. From (B) 31 42 P.S.I. To (C) 167 173 P.S.I.Tool Closed I.C.I.P. From 11:35A M. to 12:20A M. Hr. 45 Min. (D) 1378 1385 P.S.I.Tool Open F.F.P. From 12:20A M. to 1:20A M. Hr. 60 Min. From (E) 198 205 P.S.I. To (F) 355 357 P.S.I.Tool Closed F.C.I.P. From 1:20A M. to 2:20A M. Hr. 60 Min. (G) 1378 1397 P.S.I.Initial Hydrostatic Pressure (A) 2253 P.S.I. Final Hydrostatic Pressure (H) 2232 P.S.I. Maximum Temp. -BLOW Good blow throughout INFORMATIONDid Well Flow - Yes X No - Recovery Total Ft. 1568' gas in pipe, 90' gas cut mud, 600' slightly gas cut salt water, 690' total fluid recoveryReversed Out - Yes X No - Mud Type STARCH Viscosity 47 Weight 9.6 Water Loss 8.5 cc. Chlorides 31000 P.P.M.EXTRA EQUIPMENT: Type Circ. Sub. PIW Safety Joint - Jars: Size - In. Make - Ser. No. -Dual Packers yes Did Packers Hold? yes Did Tool Plug? no Where? -DRILLING CONTRACTOR RED TIGER RIG Length Drill Pipe 3088 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.Length Weight Pipe 1136 ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 4 1/2 FH In. Length Drill Collars - ft. I.D. Drill Collars - In.Tool Joint Size - In. Length D.S.T. Tool 36 ft.

Remarks _____

RECEIVED
APR 9 1976

INVOICE SECTION

Open Hole Test	\$ 355.00
Straddle Test	\$
Jars	\$
Selective Zone	\$
Safety Joint	\$
Misrun	\$
Evaluation	\$
Packer	\$
Circ. Sub.	\$
	\$
Total	\$ 355.00

COMPANY TERMS

Western Testing Co., Inc., shall not be liable for damage 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, or 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 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Gerald W. Rke Western Representative Roy PenallaySignature of Customer or his
Authorized Representative

Operator's Time _____ Hrs.

WESTERN TESTING CO., INC.

Pressure Data

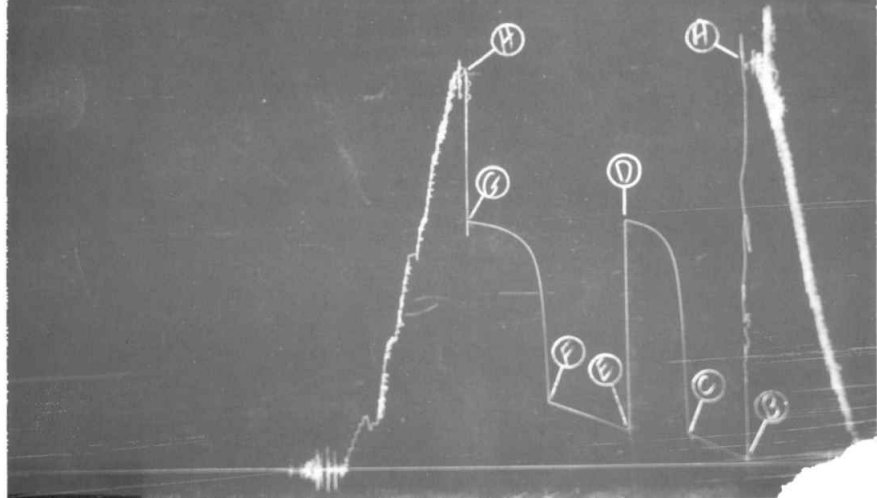
Date 4-8-76 Test Ticket No. 24291
 Order No. 1559 Capacity 4200 Location H247 Ft.
 Check No. 6895 Elevation 1526 AB Well Temperature — °F
 Unit Pressure Time Given Time Computed
 Initial Hydrostatic Mud 2276 P.S.I. Open Tool 10149 A M
 First Initial Flow Pressure 42 P.S.I. First Flow Pressure 45 Mins. 45 Mins.
 First Final Flow Pressure 173 P.S.I. Initial Closed-in Pressure 45 Mins. 45 Mins.
 Initial Closed-in Pressure 1305 P.S.I. Second Flow Pressure 60 Mins. 60 Mins.
 Second Initial Flow Pressure 205 P.S.I. Final Closed-in Pressure 60 Mins. 63 Mins.
 Second Final Flow Pressure 357 P.S.I.
 Final Closed-in Pressure 1397 P.S.I.
 Final Hydrostatic Mud 2243 P.S.I.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</u> Inc.		Breakdown: <u>—</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>21</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
1 0	42	0	173	0	205	0	357
2 5	42	3	616	5	205	3	700
3 10	59	6	944	10	219	6	956
4 15	77	9	1140	15	234	9	1100
5 20	94	12	1215	20	251	12	1176
6 25	109	15	1259	25	263	15	1222
7 30	125	18	1286	30	278	18	1255
8 35	142	21	1311	35	291	21	1278
9 40	159	24	1328	40	303	24	1295
10 45	173	27	1341	45	318	27	1309
11 50		30	1351	50	328	30	1322
12 55		33	1359	55	341	33	1334
13 60		36	1368	60	357	36	1343
14		39	1374	65		39	1351
15		42	1380	70		42	1357
16		45	1385	75		45	1364
17		48		80		48	1368
18		51		85		51	1372
19		54		90		54	1376
20		57				57	1380
		60				60	1395
						12	1397

TAT# 24291

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

Company Gear Operating Co. Lease & Well No. Boileau #1
Elevation 1526 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 24291
Date 4-8-76 Sec. 30 Twp. 30S Range 6W County Kingman State Kansas
Test Approved by Gerald W. Pike Western Representative Roy Pendlay
Formation Test No. 3 O.K. ☒ Misrun ☐ Interval Tested From 4244' to 4260' Total Depth 4260'
Size Main Hole 77/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No
Top Packer Depth 4239 Ft. Size 6 3/4 Bottom Packer Depth 4244 Ft. Size 6 3/4
Straddle ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No Packer Depth ☐ Ft. Size ☐
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 16 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 4247 Ft. Clock No. 6895 Depth 4249 Ft. Clock No. 4964
Top Make Kuster Cap. 4200 No. 1559 Inside Outside Bottom Make Kuster Cap. 3200 No. 1561 Inside Outside
Below Straddle: Depth ☐ Rec. No. ☐ Clock No. ☐ Inside Outside Depth ☐ Ft. Rec. No. ☐ Clock No. ☐ Inside Outside
Time Set Packer 10:49 A. M
Tool Open I.F.P. From 10:50 A. M. to 11:35 A. M. - Hr. 45 Min. From (B) 42 P.S.I. To (C) 173 P.S.I.
Tool Closed I.C.I.P. From 11:35 A. M. to 12:20 P. M. - Hr. 45 Min (D) 1385 P.S.I.
Tool Open F.F.P. From 12:20 P. M. to 1:20 P. M. - Hr. 60 Min. From (E) 205 P.S.I. To (F) 357 P.S.I.
Tool Closed F.C.I.P. From 1:20 P. M. to 2:20 P. M. - Hr. 60 Min. (G) 1397 P.S.I.
Initial Hydrostatic Pressure (A) 2276 P.S.I. Final Hydrostatic Pressure (H) 2243 P.S.I. Maximum Temp. -

INFORMATION

BLOW Good blow throughout test-

Did Well Flow ☐ Yes ☒ No Recovery Total Ft. 1568' gas in pipe. 90' gas cut mud. 600' slightly gas
cut salt water. 690' total fluid recovery/

Reversed Out ☐ Yes ☒ No Mud Type starch Viscosity 47 Weight 9.6 Water Loss 8.8 cc. Chlorides 31,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint ☐ Jars: Size ☐ In. Make ☐ Ser. No. ☐

Dual Packer yes Did Packers Hold? yes Did Tool Plug? no Where? ☐ ☐ ☐

DRILLING CONTRACTOR Red Tiger Drllg. Co. Length Drill Pipe 3088 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe 1136 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 4 1/2 FH In. Length Drill Collars ☐ Ft. I.D. Drill Collars ☐ In.

Tool Joint Size ☐ In. Length D.S.T. Tool 36 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 4-8-76 Test Ticket No. 24291
 Recorder No. 1559 Capacity 4200 Location 4247 Ft.
 Clock No. 6895 Elevation 1526 Kelly Bushing Well Temperature - °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2276 P.S.I.	Open Tool	10:49 A M	
B First Initial Flow Pressure	42 P.S.I.	First Flow Pressure	45 Mins.	45 Mins.
C First Final Flow Pressure	173 P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
D Initial Closed-in Pressure	1385 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	205 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	357 P.S.I.			
G Final Closed-in Pressure	1397 P.S.I.			
H Final Hydrostatic Mud	2243 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>21</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	42	0	173	0	205	0	357
P 2 5	42	3	616	5	205	3	700
P 3 10	59	6	944	10	219	6	956
P 4 15	77	9	1140	15	234	9	1100
P 5 20	94	12	1215	20	251	12	1176
P 6 25	109	15	1259	25	263	15	1222
P 7 30	125	18	1286	30	278	18	1255
P 8 35	142	21	1311	35	291	21	1278
P 9 40	159	24	1328	40	303	24	1295
P10 45	173	27	1341	45	318	27	1309
P11		30	1351	50	328	30	1322
P12		33	1359	55	341	33	1334
P13		36	1368	60	357	36	1343
P14		39	1374			39	1351
P15		42	1380			42	1357
P16		45	1385			45	1364
P17						48	1368
P18						51	1372
P19						54	1376
P20						57	1380
						60	1395
						63	1397