



P. O. BOX 793 PHONE 793-7903

GREAT BEND, KANSAS

WESTERN TESTING CO., INC. FORMATION TESTING

TICKET 22038

Formation MISS Elevation 1669 KB Eff. Pay _____ Ft.

District 4UG Date 19 March 76 Customer Order No. _____

COMPANY NAME GEAR PETROLEUM OPERATING CO.

ADDRESS K.S.B. Bldg Wichita KS 325 Dickers KSBT Bldg Wichita KS 1072

LEASE AND WELL NO. HUNTER #1 COUNTY KINGMAN STATE KANSAS Sec. 32 Twp. 30 Rge. 9 W

Mail Inv. To Same As Above No. Copies Requested Rec

Co. Name _____ Address _____

Mail Charts To _____ No. Copies Requested Rec

Address _____

Formation Test No. 1 O.K. ☒ Misrun ☐ Interval Tested From 4375' to 4392' Total Depth 4392'

Size Main Hole 7 7/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☐ No Conv. ☐ B.T. ☒ Damaged ☐ Yes ☐ No

Top Packer Depth 4370 Ft. Size 6 3/4 Bottom Packer Depth 4375 Ft. Size 6 3/4

Straddle ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No Packer Depth ☐ Ft. Size ☐

Tool Size 5 1/2" Tool Joint Size 4 1/2 FH Anchor Length 17 Ft. Size 5 1/2 Surface Choke Size 3 1/4 In. Bottom Choke Size 3 1/4 In.

RECORDERS Depth 4384 Ft. Clock No. 6899 Depth 4387 Ft. Clock No. 10168

Top Make KUSTER Cap. 4250 No. 1056 Inside ☐ Outside ☐ Bottom Make KUSTER Cap. 4000 No. 3659 Inside ☐ Outside ☐

Below Straddle: Depth ☐ Rec. No. ☐ Clock No. ☐ Inside ☐ Outside ☐ Depth ☐ Ft. Rec. No. ☐ Clock No. ☐ Inside ☐ Outside ☐

Time Set Packer 8:41 AM M

Tool Open I.F.P. From 8:45 A M. to 9:30 A M. Hr. 45 Min. From (B) 5443 P.S.I. To (C) 50 43 P.S.I.

Tool Closed I.C.I.P. From 9:30 A M. to 10:15 A M. Hr. 45 Min. (D) 830 835 P.S.I.

Tool Open F.F.P. From 10:15 A M. to 11:15 A M. Hr. 1 Min. From (E) 5358 P.S.I. To (F) 6056 P.S.I.

Tool Closed F.C.I.P. From 11:15 A M. to 12:15 A M. Hr. 1 Min. (G) 910 237 P.S.I.

Initial Hydrostatic Pressure (A) 2348 P.S.I. Final Hydrostatic Pressure (H) 2330 P.S.I. Maximum Temp. 123

BLOW STRONG blow INFORMATION 40 MINUTE SILENT OPENING

Did Well Flow ☒ Yes ☐ No Recovery Total Ft. 63 - Gas Gut Mud

Reversed Out ☒ Yes ☐ No Mud Type STRACH Viscosity 43 Weight 9.7 Water Loss 9.6 cc. Chlorides 6700 O PPM

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

Dual Packers Yes Did Packers Hold? Yes Did Tool Plug? NO Where? ☐

DRILLING CONTRACTOR RED TIGER WELDR Length Drill Pipe 3218 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 271 ft. I.D. Drill Collars ☐ In.

Tool Joint Size ☐ In. Length D.S.T. Tool 37 ft.

Remarks see attached sheet for gas measurements

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 R. Costa D.I. Western Representative May Knipe

Signature of Customer or his Authorized Representative Costa Operator's Time Thank You Hrs.

INVOICE SECTION

Open Hole Test	\$ <u>355</u>
Straddle Test	\$
Jars	\$
Selective Zone	\$
Safety Joint	\$
Misrun	\$
Evaluation	\$
Packer	\$
Circ. Sub.	\$
Total	\$ <u>355</u>

MAR 23 1976

WESTERN TESTING CO., INC.

Pressure Data

Date 3-19-76 Test Ticket No. 22038
 Recorder No. 1051 Capacity 4250 Location 4384 Ft.
 Block No. 6899 Elevation 1669 AB Well Temperature 123 °F
 Point Pressure Time Given Time Computed
 Initial Hydrostatic Mud 2344 P.S.I. Open Tool 8:41 A M
 First Initial Flow Pressure 54 P.S.I. First Flow Pressure 45 Mins. 45 Mins.
 First Final Flow Pressure 50 P.S.I. Initial Closed-in Pressure 45 Mins. 48 Mins.
 Initial Closed-in Pressure 836 P.S.I. Second Flow Pressure 60 Mins. 60 Mins.
 Second Initial Flow Pressure 58 P.S.I. Final Closed-in Pressure 60 Mins. 60 Mins.
 Second Final Flow Pressure 56 P.S.I.
 Final Closed-in Pressure 931 P.S.I.
 Final Hydrostatic Mud 2303 P.S.I.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</u> Inc.		Breakdown: <u>16</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>20</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 Ins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
1 0	<u>54</u>	0	<u>50</u>	0	<u>58</u>	0	<u>56</u>
2 5	<u>50</u>	3	<u>112</u>	5	<u>56</u>	3	<u>185</u>
3 10		6	<u>181</u>	10		6	<u>307</u>
4 15		9	<u>255</u>	15		9	<u>409</u>
5 20		12	<u>325</u>	20		12	<u>494</u>
6 25		15	<u>386</u>	25		15	<u>565</u>
7 30		18	<u>446</u>	30		18	<u>626</u>
8 35		21	<u>503</u>	35		21	<u>672</u>
9 40		24	<u>559</u>	40		24	<u>712</u>
10 45	<u>50</u>	27	<u>609</u>	45		27	<u>746</u>
11 50		30	<u>653</u>	50		30	<u>776</u>
12 55		33	<u>693</u>	55		33	<u>802</u>
13 60		36	<u>727</u>	60	<u>56</u>	36	<u>825</u>
14		39	<u>766</u>	65		39	<u>845</u>
15		42	<u>793</u>	70		42	<u>863</u>
16		45	<u>820</u>	75		45	<u>876</u>
17		48	<u>836</u>	80		48	<u>891</u>
18		51		85		51	<u>902</u>
19		54		90		54	<u>913</u>
20		57				57	<u>921</u>
		60				60	<u>931</u>



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

Company Gear Operating Co. Lease & Well No. Hunter # 1
Elevation 1669 Kelly Bushing Formation Mississippi Effective Pay - - Ft. Ticket No. 22038
Date 3-19-76 Sec. 32 Twp. 30S Range 9W County Kingman State Kansas
Test Approved by D.J. Costa Western Representative Max Knipe
Formation Test No. 1 O.K. ☒ Misrun ☐ Interval Tested From 4375' to 4392' Total Depth 4392'
Size Main Hole 77/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No
Top Packer Depth 4370 Ft. Size 6 3/4 Bottom Packer Depth 4375 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 17 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 4384 Ft. Clock No. 6899 Depth 4387 Ft. Clock No. 10168
Top Make Kuster Cap. 4250 No. 1051 Inside Bottom Make Kuster Cap. 4000 No. 3659 Inside
Below Straddle: Depth - Rec. No. - Clock No. - Outside Depth - Ft. Rec. No. - Clock No. - Outside
Time Set Packer 8:41 A. M
Tool Open I.F.P. From 8:45 A. M. to 9:30 A. M. - Hr. 45 Min. From (B) 54 P.S.I. To (C) 50 P.S.I.
Tool Closed I.C.I.P. From 9:30 A. M. to 10:15 A. M. - Hr. 45 Min (D) 836 P.S.I.
Tool Open F.F.P. From 10:15 A. M. to 11:15 A. M. 1 Hr. - Min. From (E) 58 P.S.I. To (F) 56 P.S.I.
Tool Closed F.C.I.P. From 11:15 A. M. to 12:15 P. M. 1 Hr. - Min. (G) 931 P.S.I.
Initial Hydrostatic Pressure (A) 2344 P.S.I. Final Hydrostatic Pressure (H) 2303 P.S.I. Maximum Temp. 123

INFORMATION

BLOW Strong blow gas to surface in 40 minutes on second opening.

Did Well Flow ☒ Yes ☐ No Recovery Total Ft. 63' gas cut mud.

Reversed Out ☐ Yes ☒ No Mud Type starch Viscosity 43 Weight 9.7 Water Loss 9.6 cc. Chlorides 67,000 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? 3218 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 Length Drill Collars ☐ Ft. I.D. Drill Collars ☐ In.

Tool Joint Size ☐ In. Length D.S.T. Tool 37 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 3-19-76 Ticket 22038 Company Gear Operating Co.
Well Name and No. Hunter #1 Dst No. 1 Interval Tested 4375' to 4392'
County Kingman State Kansas Sec. 32 Twp. 30S Rg. 9W

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						

SECOND FLOW						
	10 min	8" of water	1/4" choke			4,760 C.F.P.D.
	20 min	8" of water	1/4" choke			4,760 C.F.P.D.
Gas to surface in 40 minutes on second flow period.						

GAS BOTTLE

Serial No. 629 Date Bottle Filled 3-19-76 Date to be Invoiced 3-19-76

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 D. J. Costa

WESTERN TESTING CO., INC.

Pressure Data

Date 3-19-76

Test Ticket No. 22038

Recorder No. 1051 Capacity 4250 Location 4384 Ft.

Clock No. 6899 Elevation 1669 Kelly Bushing Well Temperature 123 °F

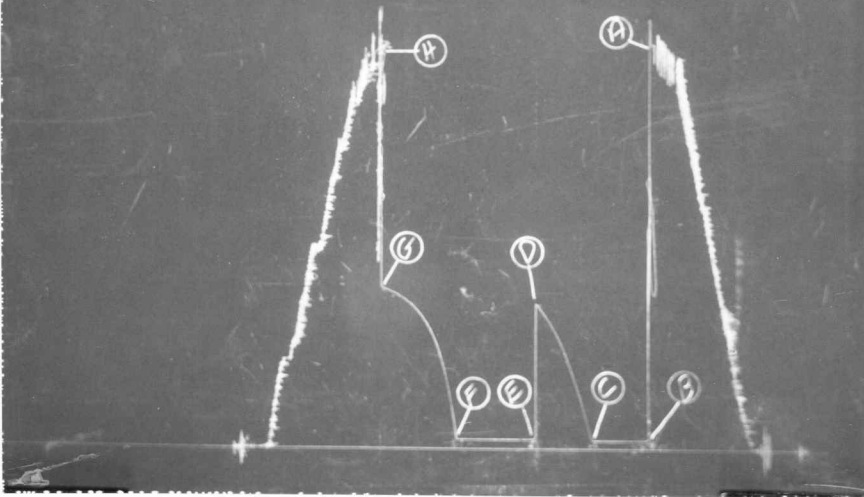
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2344</u> P.S.I.	Open Tool	<u>8:41 A.M.</u>	
B First Initial Flow Pressure	<u>54</u> P.S.I.	First Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>50</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>48</u> Mins.
D Initial Closed-in Pressure	<u>836</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>58</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>56</u> P.S.I.			
G Final Closed-in Pressure	<u>931</u> P.S.I.			
H Final Hydrostatic Mud	<u>2303</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>16</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>20</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>54</u>	<u>0</u>	<u>50</u>	<u>0</u>	<u>58</u>	<u>0</u>	<u>56</u>
P 2 <u>5</u>	<u>50</u>	<u>3</u>	<u>112</u>	<u>5</u>	<u>56</u>	<u>3</u>	<u>185</u>
P 3 <u>10</u>	<u>50</u>	<u>6</u>	<u>181</u>	<u>10</u>	<u>56</u>	<u>6</u>	<u>307</u>
P 4 <u>15</u>	<u>50</u>	<u>9</u>	<u>255</u>	<u>15</u>	<u>56</u>	<u>9</u>	<u>409</u>
P 5 <u>20</u>	<u>50</u>	<u>12</u>	<u>325</u>	<u>20</u>	<u>56</u>	<u>12</u>	<u>494</u>
P 6 <u>25</u>	<u>50</u>	<u>15</u>	<u>386</u>	<u>25</u>	<u>56</u>	<u>15</u>	<u>565</u>
P 7 <u>30</u>	<u>50</u>	<u>18</u>	<u>446</u>	<u>30</u>	<u>56</u>	<u>18</u>	<u>626</u>
P 8 <u>35</u>	<u>50</u>	<u>21</u>	<u>503</u>	<u>35</u>	<u>56</u>	<u>21</u>	<u>672</u>
P 9 <u>40</u>	<u>50</u>	<u>24</u>	<u>559</u>	<u>40</u>	<u>56</u>	<u>24</u>	<u>712</u>
P10 <u>45</u>	<u>50</u>	<u>27</u>	<u>609</u>	<u>45</u>	<u>56</u>	<u>27</u>	<u>746</u>
P11		<u>30</u>	<u>653</u>	<u>50</u>	<u>56</u>	<u>30</u>	<u>776</u>
P12		<u>33</u>	<u>693</u>	<u>55</u>	<u>56</u>	<u>33</u>	<u>802</u>
P13		<u>36</u>	<u>727</u>	<u>60</u>	<u>56</u>	<u>36</u>	<u>825</u>
P14		<u>39</u>	<u>766</u>			<u>39</u>	<u>845</u>
P15		<u>42</u>	<u>793</u>			<u>42</u>	<u>863</u>
P16		<u>45</u>	<u>820</u>			<u>45</u>	<u>876</u>
P17		<u>48</u>	<u>836</u>			<u>48</u>	<u>891</u>
P18						<u>51</u>	<u>902</u>
P19						<u>54</u>	<u>913</u>
P20						<u>57</u>	<u>921</u>
						<u>60</u>	<u>931</u>

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

WESTERN TESTING CO., INC. FORMATION TESTING

TICKET 22039

Formation MISS Elevation 1669 KB Eff. Pay Ft.

District ACG Date 20 March 76 Customer Order No.

COMPANY NAME GEAR PETROLEUM Operating Co.

ADDRESS KSB BLDG. WICHITA KS 13250 Victors KSB & T Bldg.

WELL NO. HUNTER #1 COUNTY KINGMAN STATE KANSAS Sec. 32 Twp. 30S Rge. 9W

Oil Inv. To SAME AS ABOVE No. Copies Requested Reg

Co. Name 11 11 11 Address

Oil Charts To 11 11 11 No. Copies Requested Reg

Address

Formation Test No. 2 O.K. X Misrun Interval Tested From 4392' to 4413' Total Depth 4413'

Size Main Hole 7 7/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No

Top Packer Depth 4387 Ft. Size 6 3/4 Bottom Packer Depth 4392 Ft. Size 6 3/4

Straddle Conv. B.T. Damaged Yes No Packer Depth Ft. Size

Tool Joint Size 5 1/2" Tool Joint Size 4 1/2 FH Anchor Length 21 Ft. Size 5 1/2 Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4405 Ft. Clock No. 6899 Depth 4408 Ft. Clock No. 10168

Top Make KUSTER Cap. 4250 No. 1056 Inside Outside Bottom Make KUSTER Cap. 4000 No. 3659 Inside Outside

Low Straddle: Depth Rec. No. Clock No. Inside Outside Depth Ft. Rec. No. Clock No. Inside Outside

Time Set Packer 1:36 PM M

Oil Open I.F.P. From 1:40A to 2:25A Hr. 45 Min. From (B) 53 53 P.S.I. To (C) 53 49 P.S.I.

Oil Closed I.C.I.P. From 2:25A to 3:10A Hr. 45 Min. (D) 150 141 P.S.I.

Oil Open F.F.P. From 3:10A to 4:10A 1 Hr. Min. From (E) 64 64 P.S.I. To (F) 68 602 P.S.I.

Oil Closed F.C.I.P. From 4:10A to 5:10A 1 Hr. Min. (G) 193 200 P.S.I.

Initial Hydrostatic Pressure (A) 2358 P.S.I. Final Hydrostatic Pressure (H) 2305 P.S.I. Maximum Temp. 124

INFORMATION

LOW STRONG Down throughout test

Oil Well Flow Yes X No Recovery Total Ft. 35 FT. GAS CUT slightly 40 IL CUT

434 FT GAS IN PIPE

Reversed Out Yes X No Mud Type STRACH Viscosity 43 Weight 9.7 Water Loss 9.6 cc. Chlorides 67,000 PPM

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

Tool Packer YES Did Packers Hold? YES Did Tool Plug? Where?

DRILLING CONTRACTOR Red Tiger #1 Length Drill Pipe 3236 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 41 ft.

Remarks

Remarks

Remarks

Remarks

Remarks

Remarks

Remarks

Remarks

Remarks

Remarks

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Remarks

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Remarks

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 W. J. Costa Western Representative Max Knipe

Signature of Customer or his Authorized Representative Costa Operator's Time Thank You Hrs.

INVOICE SECTION

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

RECEIVED
MAR 23 1976
RECEIVED

WESTERN TESTING CO., INC. Pressure Data

3-20-76

Test Ticket No. 22089

No. 1051

Capacity 4250

Location H405 Ft.

No. 6899

Elevation 1669 HB

Well Temperature 124 °F

Pressure

Time
Given

Time
Computed

Initial Hydrostatic Mud 2359 P.S.I.
First Initial Flow Pressure 53 P.S.I.
First Final Flow Pressure 49 P.S.I.
Initial Closed-in Pressure 141 P.S.I.
Second Initial Flow Pressure 64 P.S.I.
Second Final Flow Pressure 62 P.S.I.
Final Closed-in Pressure 206 P.S.I.
Final Hydrostatic Mud 2305 P.S.I.

Open Tool 11:36 A M
First Flow Pressure 45 Mins. 45 Mins.
Initial Closed-in Pressure 45 Mins. 42 Mins.
Second Flow Pressure 60 Mins. 60 Mins.
Final Closed-in Pressure 40 Mins. 57 Mins.

PRESSURE BREAKDOWN

First Flow Pressure

Breakdown: 9 Inc.

of 5 mins. and a

final inc. of 0 Min.

Initial Shut-In

Breakdown: 14 Inc.

of 3 mins. and a

final inc. of 0 Min.

Second Flow Pressure

Breakdown: 12 Inc.

of 5 mins. and a

final inc. of 0 Min.

Final Shut-In

Breakdown: 19 Inc.

of 3 mins. and a

final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
1 0	53	0	49	0	64	0	62
2 5	49	3	49	5	62	3	62
3 10		6	50	10		6	62
4 15		9	54	15		9	65
5 20		12	58	20		12	70
6 25		15	65	25		15	76
7 30		18	73	30		18	82
8 35		21	82	35		21	90
9 40		24	88	40		24	99
10 45	49	27	97	45		27	109
11 50		30	105	50		30	117
12 55		33	115	55		33	126
13 60		36	123	60	62	36	135
14		39	132	65		39	146
15		42	141	70		42	158
16		45		75		45	167
17		48		80		48	176
18		51		85		51	187
19		54		90		54	198
20		57				57	206



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

Company Gear Operating Co. Lease & Well No. Hunter #1
Elevation 1669 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 22039
Date 3-20-76 Sec. 32 Twp. 30S Range 9W County Kingman State Kansas
Test Approved by D.J. Costa Western Representative Max Knipe

Formation Test No. 2 O.K. ☒ Misrun ☐ Interval Tested From 4392' to 4413' Total Depth 4413'
Size Main Hole 77/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No
Top Packer Depth 4387 Ft. Size 6 3/4 Bottom Packer Depth 4392 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 21 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4405 Ft. Clock No. 6899 Depth 4408 Ft. Clock No. 10168
Top Make Kuster Cap. 4250 No. 1051 Inside Bottom Make Kuster Cap. 4000 No. 3659 Outside
Below Straddle: Depth ☐ Rec. No. ☐ Clock No. ☐ Inside Depth ☐ Ft. Rec. No. ☐ Clock No. ☐ Outside

Time Set Packer 1:36 A. M

Tool Open I.F.P. From 1:40 A. M. to 2:25 A. M. - Hr. 45 Min. From (B) 53 P.S.I. To (C) 49 P.S.I.

Tool Closed I.C.I.P. From 2:25 A. M. to 3:10 A. M. - Hr. 45 Min (D) 141 P.S.I.

Tool Open F.F.P. From 3:10 A. M. to 4:10 A. M. 1 Hr. - Min. From (E) 64 P.S.I. To (F) 62 P.S.I.

Tool Closed F.C.I.P. From 4:10 A. M. to 5:10 A. M. 1 Hr. - Min. (G) 206 P.S.I.

Initial Hydrostatic Pressure (A) 2359 P.S.I. Final Hydrostatic Pressure (H) 2305 P.S.I. Maximum Temp. 124

INFORMATION

BLOW Strong blow throughout test.

Did Well Flow ☐ Yes ☒ No Recovery Total Ft. 35' gas cut slightly oil cut mud.

434' gas in pipe.

Reversed Out ☐ Yes ☒ No Mud Type starch Viscosity 43 Weight 9.7 Water Loss 9.6 cc. Chlorides 67,000 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 3236 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 41 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 3-20-76 Test Ticket No. 22039
 Recorder No. 1051 Capacity 4250 Location 4405 Ft.
 Clock No. 6899 Elevation 1669 Kelly Bushing Well Temperature 124 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2359 P.S.I.	Open Tool	1:36 A. M	
B First Initial Flow Pressure	53 P.S.I.	First Flow Pressure	45 Mins.	45 Mins.
C First Final Flow Pressure	49 P.S.I.	Initial Closed-in Pressure	45 Mins.	42 Mins.
D Initial Closed-in Pressure	141 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	64 P.S.I.	Final Closed-in Pressure	60 Mins.	57 Mins.
F Second Final Flow Pressure	62 P.S.I.			
G Final Closed-in Pressure	206 P.S.I.			
H Final Hydrostatic Mud	2305 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</u> Inc.		Breakdown: <u>14</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>19</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>53</u>	<u>0</u>	<u>49</u>	<u>0</u>	<u>64</u>	<u>0</u>	<u>62</u>
P 2 <u>5</u>	<u>49</u>	<u>3</u>	<u>49</u>	<u>5</u>	<u>62</u>	<u>3</u>	<u>62</u>
P 3 <u>10</u>	<u>49</u>	<u>6</u>	<u>50</u>	<u>10</u>	<u>62</u>	<u>6</u>	<u>62</u>
P 4 <u>15</u>	<u>49</u>	<u>9</u>	<u>54</u>	<u>15</u>	<u>62</u>	<u>9</u>	<u>65</u>
P 5 <u>20</u>	<u>49</u>	<u>12</u>	<u>58</u>	<u>20</u>	<u>62</u>	<u>12</u>	<u>70</u>
P 6 <u>25</u>	<u>49</u>	<u>15</u>	<u>65</u>	<u>25</u>	<u>62</u>	<u>15</u>	<u>76</u>
P 7 <u>30</u>	<u>49</u>	<u>18</u>	<u>73</u>	<u>30</u>	<u>62</u>	<u>18</u>	<u>82</u>
P 8 <u>35</u>	<u>49</u>	<u>21</u>	<u>82</u>	<u>35</u>	<u>62</u>	<u>21</u>	<u>90</u>
P 9 <u>40</u>	<u>49</u>	<u>24</u>	<u>88</u>	<u>40</u>	<u>62</u>	<u>24</u>	<u>99</u>
P10 <u>45</u>	<u>49</u>	<u>27</u>	<u>97</u>	<u>45</u>	<u>62</u>	<u>27</u>	<u>109</u>
P11		<u>30</u>	<u>105</u>	<u>50</u>	<u>62</u>	<u>30</u>	<u>117</u>
P12		<u>33</u>	<u>115</u>	<u>55</u>	<u>62</u>	<u>33</u>	<u>126</u>
P13		<u>36</u>	<u>123</u>	<u>60</u>	<u>62</u>	<u>36</u>	<u>135</u>
P14		<u>39</u>	<u>132</u>			<u>39</u>	<u>146</u>
P15		<u>42</u>	<u>141</u>			<u>42</u>	<u>158</u>
P16						<u>45</u>	<u>167</u>
P17						<u>48</u>	<u>176</u>
P18						<u>51</u>	<u>187</u>
P19						<u>54</u>	<u>198</u>
P20						<u>57</u>	<u>206</u>

