Company W. L. Kirkman, Inc. Lease & Well No. Kastens #1

Elevation 1394 Formation Cherokee Effective Pay -- Ft. Ticket No. 1234

Date 2/18/79 Sec. 27 Twp. 33S Range 8W County Harper State Kansas

Test Approved by Terry Michael Western Representative Rod Tritt

Formation Test No. 1 Interval Tested from 4536' ft. to 4573' ft. Total Depth 4573' ft.

Packer Depth 4531 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4536 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 4540 ft. Recorder Number 2604 Cap. 4150

Bottom Recorder Depth (Outside) 4543 ft. Recorder Number 2606 Cap. 4150

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

Drilling Contractor H-30, Inc. Rig #5 Drill Collar Length 185 I. D. 2¼ in.

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

Weight 9.4 Water Loss 8.4 cc. Drill Pipe Length 3970 I. D. 3.8 in.

Chlorides 30,500 P.P.M. Test Tool Length 57' ~~in.~~ Tool Size 5½OD in.

Jars: Make No Serial Number -- Anchor Length 37' 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 4½FH in.

Blow: Good blow decreasing to fair blow on initial flow. Weak blow decreasing to no blow in twenty minutes on final.

Recovered 235 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Opened tool twice to reach bottom.
Clock stopped on recorder #2606

Time Set Packer(s) 9:15 ~~A.M.~~ P.M. Time Started Off Bottom 11:45 ~~A.M.~~ P.M. Maximum Temperature 118

Initial Hydrostatic Pressure ..... (A) 2350 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 162 P.S.I. to (C) 158 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 243 P.S.I.

Final Flow Period ..... Minutes 30 (E) 164 P.S.I. to (F) 141 P.S.I.

Final Closed In Period ..... Minutes 45 (G) 183 P.S.I.

Final Hydrostatic Pressure ..... (H) 2300 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 2/18/79 Test Ticket No. 1234

Recorder No. 2604 Capacity 4150 Location 4540 Ft.

Clock No. -- Elevation 1394 Well Temperature 118 °F

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	2350 P.S.I.	Open Tool	9:15P M	
B	First Initial Flow Pressure	162 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	158 P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
D	Initial Closed-in Pressure	243 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E	Second Initial Flow Pressure	164 P.S.I.	Final Closed-in Pressure	45 Mins.	45 Mins.
F	Second Final Flow Pressure	141 P.S.I.			
G	Final Closed-in Pressure	183 P.S.I.			
H	Final Hydrostatic Mud	2300 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	162
P 2 5	168
P 3 10	170
P 4 15	166
P 5 20	162
P 6 25	164
P 7 30	158
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

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

Point Minutes	Press.
0	158
3	160
6	160
9	170
12	177
15	183
18	192
21	198
24	203
27	211
30	220
33	226
36	231
39	235
42	239
45	243

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

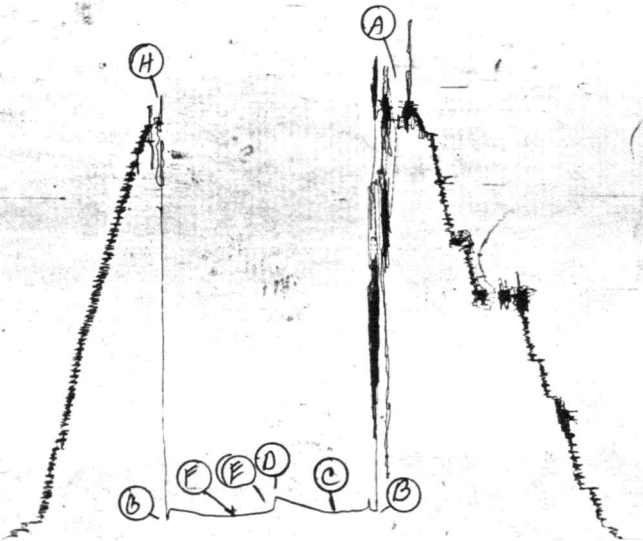
Point Minutes	Press.
0	164
5	162
10	158
15	151
20	147
25	145
30	141

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

Point Minutes	Press.
0	141
3	138
6	138
9	140
12	142
15	143
18	147
21	148
24	153
27	158
30	162
33	170
36	175
39	177
42	181
45	183

2604

Plot No. 1534
I



Company W. L. Kirkman, Inc. Lease & Well No. Kastens #1

Elevation 1394 Kelly Bush. Formation Mississippi Effective Pay -- Ft. Ticket No. 1235

Date 2/19/79 Sec. 27 Twp. 33S Range 8W County Harper State Kansas

Test Approved by Terry Michael Western Representative Rod Tritt

Formation Test No. 2 Interval Tested from 4632' ft. to 4662' ft. Total Depth 4662' ft.

Packer Depth 4627 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4632 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 4636 ft. Recorder Number 2604 Cap. 4150

Bottom Recorder Depth (Outside) 4639 ft. Recorder Number 2606 Cap. 4150

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

Drilling Contractor H-30, Inc. Rig #5 Drill Collar Length 185 I. D. 2¼OD in.

Mud Type starch Viscosity 49.9 Weight Pipe Length - I. D. - in.

Weight 9.4 Water Loss 9.2 cc. Drill Pipe Length 4426 I. D. 3.8 in.

Chlorides 34,000 P.P.M. Test Tool Length 51' Tool Size 5½OD in.

Jars: Make No Serial Number -- Anchor Length 30 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 4½FH in.

Blow: Strong blow throughout test. Gas to surface in 13 minutes. See attached sheet for gas measurements.

Recovered 150 ft. of very heavy oil and gas cut mud

Recovered 180 ft. of gassy oil

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Hit string bridge about 1000 feet off bottom. Slid tool five feet.

Time Set Packer(s) 8:40 A.M. P.M. Time Started Off Bottom 11:30 A.M. P.M. Maximum Temperature 128

Initial Hydrostatic Pressure ..... (A) 2376 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 109 P.S.I. to (C) 66 P.S.I.

Initial Closed In Period ..... Minutes 50 (D) 1653 P.S.I.

Final Flow Period ..... Minutes 30 (E) 108 P.S.I. to (F) 100 P.S.I.

Final Closed In Period ..... Minutes 60 (G) 1624 P.S.I.

Final Hydrostatic Pressure ..... (H) 2341 P.S.I.

Phone 316 262-5861
316 838-0601

P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

Date 2/19/79 Ticket 1235 Company W. L . Kirkman, Inc.

Well Name and No. Kastens #1 Dst No. 2 Interval Tested 4632'-4662'

County Harper State Kansas Sec. 27 Twp. 33S Rg. 8W

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				
8:40						Tool open
8:53						Gas to surface
8:60	20 min.	5" of water 3/4" orifice				31,600 MCFPD
	30 min.	7" of water 3/4" orifice				37,400 MCFPD
		SECOND FLOW				
10:00						Tool open
	10 min.	15" of water 3/4" orifice				55,200 MCFPD
	20 min.	8" of water 3/4" orifice				40,000 MCFPD
	30 min.	8" of water 3/4" orifice				40,000 MCFPD

GAS BOTTLE

Serial No. -- Date Bottle Filled -- Date to be Invoiced 2/19/79

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 W. L. Kirkman, Inc.

Authorized by Terry Michael

FORM WTC 6

WESTERN TESTING CO., INC.

Pressure Data

Date 2/19/79 Test Ticket No. 1235

Recorder No. 2604 Capacity 4150 Location 4636 Ft.

Clock No. -- Elevation 1394 Well Temperature 128 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2376 P.S.I.	Open Tool	8:40P M	
B First Initial Flow Pressure	109 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	66 P.S.I.	Initial Closed-in Pressure	50 Mins.	60 Mins.
D Initial Closed-in Pressure	1653 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	108 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	100 P.S.I.			
G Final Closed-in Pressure	1624 P.S.I.			
H Final Hydrostatic Mud	2341 P.S.I.			

PRESSURE BREAKDOWN

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

Initial Shut-In
Breakdown: 20 Inc. of 3 mins. and a final inc. of 0 Min.

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

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

Point	First Flow Pressure Mins.	First Flow Pressure Press.	Initial Shut-In Point Minutes	Initial Shut-In Press.	Second Flow Pressure Point Minutes	Second Flow Pressure Press.	Final Shut-In Point Minutes	Final Shut-In Press.
P 1	0	109	0	66	0	108	0	100
P 2	5	94	3	218	5	104	3	239
P 3	10	81	6	434	10	100	6	470
P 4	15	70	9	598	15	100	9	646
P 5	20	66	12	770	20	100	12	839
P 6	25	66	15	979	25	100	15	1042
P 7	30	66	18	1178	30	100	18	1188
P 8			21	1299			21	1274
P 9			24	1380			24	1341
P10			27	1439			27	1391
P11			30	1483			30	1427
P12			33	1521			33	1450
P13			36	1542			36	1473
P14			39	1564			39	1495
P15			42	1586			42	1516
P16			45	1605			45	1536
P17			48	1616			48	1548
P18			51	1625			51	1557
P19			54	1634			54	1566
P20			57	1644			57	1579
			60	1653			60	1590

continued next page

WESTERN TESTING CO., INC.
Pressure Data

Date 2/19/79 Test Ticket No. 1235

Recorder No. 2604 Capacity 4150 Location 4636 Ft.

Clock No. -- Elevation 1394 Well Temperature 128 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2376 P.S.I.	Open Tool	8:40P M	
B First Initial Flow Pressure	109 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	66 P.S.I.	Initial Closed-in Pressure	50 Mins.	60 Mins.
D Initial Closed-in Pressure	1653 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	108 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	100 P.S.I.			
G Final Closed-in Pressure	1624 P.S.I.			
H Final Hydrostatic Mud	2341 P.S.I.			

PRESSURE BREAKDOWN

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

Initial Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

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

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

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						63	1598
P 2						66	1606
P 3						69	1613
P 4						72	1619
P 5						75	1624
P 6							
P 7							
P 8							
P 9							
P10							
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

JKH#1235