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

Company J. Mark Richardson Lease & Well No. Nelson #2

Elevation 2286 Kelly Bush Formation Mississippi Effective Pay - Ft. Ticket No. 23309

Date 1-17-78 Sec. 26 Twp. 27S Range 20W County Kiowa State Kansas

Test Approved by J. Mark Richardson Western Representative Denis Wondra

Formation Test No. 1 O.K. X Misrun - Interval Tested From 4836' to 4880' Total Depth 4880'

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

Top Packer Depth 4821 Ft. Size 6 3/4 Bottom Packer Depth 4826 Ft. Size 6 3/4

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

Tool Size 5½OD Tool Joint Size 4½FH Anchor Length 54 Ft. Size 5½OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4870 Ft. Clock No. 6861 Depth 4873 Ft. Clock No. 6896

Top Make Kuster Cap. 4000 No. 3660 Inside ~~Outside~~ Bottom Make Kuster Cap. 6000 No. 1560 ~~Inside~~ Outside

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

Time Set Packer 9:58A M

Tool Open I.F.P. From 10:00 M. to 10:30 M. - Hr. 30 Min. From (B) 1051 P.S.I. To (C) 1080 P.S.I.

Tool Closed I.C.I.P. From 10:30 M. to 11:00 M. - Hr. 30 Min (D) 1431 P.S.I.

Tool Open F.F.P. From 11:00 M. to 12:30 M. - Hr. 90 Min. From (E) 1078 P.S.I. To (F) 1026 P.S.I.

Tool Closed F.C.I.P. From 12:30 M. to 1:00 M. - Hr. 30 Min. (G) 1379 P.S.I.

Initial Hydrostatic Pressure (A) 2642 P.S.I. Final Hydrostatic Pressure (H) 2485 P.S.I. Maximum Temp. 126

INFORMATION

BLOW Gas to surface in 2 minutes on initial flow period. See attached sheet for gas measurements.

Did Well Flow X Yes - No Recovery Total Ft. 60' water 5' oil slightly gas cut.

Chlorides 190,000 ppm

Reversed Out - Yes X No Mud Type Starch Viscosity 47 Weight 9.8 Water Loss 12.4 cc. Chlorides 53,000 ppm

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Yes Jars: Size 4 3/4 In. Make W.T.C. Ser. No. 410

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -

DRILLING CONTRACTOR Gabbert & Jones Rig #9 Length Drill Pipe? 4615 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4½FH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 185 Ft. I.D. Drill Collars 3.7 In.

Tool Joint Size 4½H90 In. Length D.S.T. Tool 80 Ft.

Remarks:

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

GAS FLOW REPORT

Date 1-17-78 Ticket 23309 Company J. Mark Richardson

Well Name and No. Nelson #2 Dst No. 1 Interval Tested 4834' - 4880'

County Kiowa State Kansas Sec. 26 Twp. 27S Rg. 20W

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						
10:15	15 min.	50 lbs.	2" orifice			6,160,000 C.F.P.D.
Gas to	surface	in 2 minutes.				
SECOND FLOW						
11:05	5 min.	50 lbs.	2" orifice			6,160.000 C.F.P.D.

GAS BOTTLE

Serial No. 637 Date Bottle Filled 1-17-78 Date to be Invoiced 1-17-78

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of $75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME J. Mark Richardson

Authorized by J. Mark Richardson

WESTERN TESTING CO., INC.
Pressure Data

Date 1-17-78 Test Ticket No. 23309

Recorder No. 3660 Capacity 4000 Location 4870 Ft.

Clock No. 6861 Elevation 2286 Kelly Bushing Well Temperature 126 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2642	P.S.I.	Open Tool	9:58 A M	
B	First Initial Flow Pressure	1051	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	1080	P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	1431	P.S.I.	Second Flow Pressure	90 Mins.	85 Mins.
E	Second Initial Flow Pressure	1078	P.S.I.	Final Closed-in Pressure	30 Mins.	36 Mins.
F	Second Final Flow Pressure	1026	P.S.I.			
G	Final Closed-in Pressure	1379	P.S.I.			
H	Final Hydrostatic Mud	2485	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	1051
P 2 5	1052
P 3 10	1055
P 4 15	1060
P 5 20	1078
P 6 25	1080
P 7 30	1080
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.

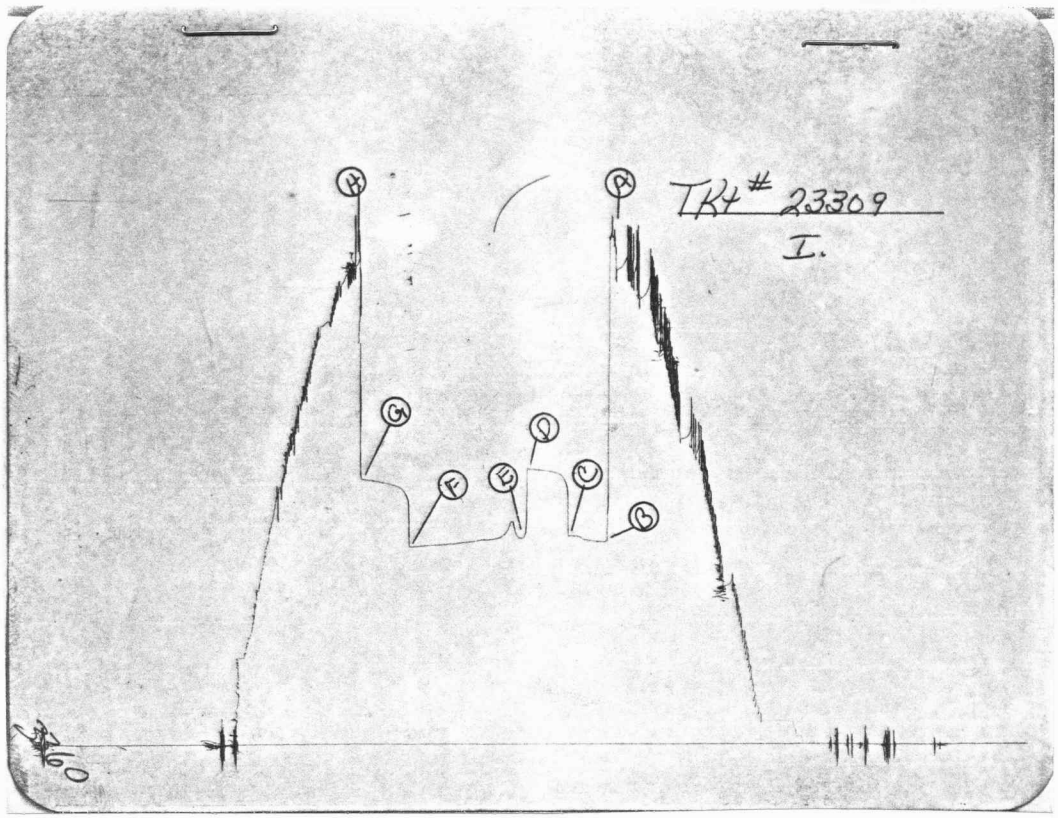
Point Minutes	Press.
0	1080
3	1377
6	1404
9	1413
12	1417
15	1422
18	1424
21	1426
24	1428
27	1430
30	1431

Second Flow Pressure
Breakdown: 17 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	1078
5	1076
10	1153
15	1084
20	1068
25	1062
30	1061
35	1055
40	1051
45	1048
50	1043
55	1040
60	1037
65	1035
70	1033
75	1303
80	1028
85	1026

Final Shut-In
Breakdown: 12 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	1026
3	1290
6	1325
9	1339
12	1347
15	1353
18	1359
21	1363
24	1367
27	1370
30	1373
33	1376
36	1379



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2653	2542	PSI
(B)	First Initial Flow Pressure	1052	1051	PSI
(C)	First Final Flow Pressure	1072	1080	PSI
(D)	Initial Closed-in Pressure	1433	1431	PSI
(E)	Second Initial Flow Pressure	1062	1078	PSI
(F)	Second Final Flow Pressure	1022	1026	PSI
(G)	Final Closed-in Pressure	1363	1379	PSI
(H)	Final Hydrostatic Mud	2572	2485	PSI

COMPANY J. Mark Richardson LEASE AND WELL NO. Nelson #2 SEC. 26 TWP. 27S RGE. 20W TEST NO. 1 DATE 1-17-78