15-015-23557

31-26s-8E

Ricketts Testing, Inc.

ORIGINAL

Lloyd Gray 4

Company T-J RESOURCES — Lease & Well No. GRAY #4

Elevation 1540 G.L. Formation — Ticket No. 1941

Date 3-5-00 Sec. 31 Twp. 26S Range 8E County BUTLER State KS

Test Approved by BILL STOUT — Ricketts Representative JIM RICKETTS

Formation Test No. 1 Interval Tested from 2682 ft. to 2710 ft. Total Depth 2710 ft.

Packer Depth 2682 ft. Size 6 3/4 in. — Packer Depth ___ ft. Size ___ in.

Packer Depth 2679 ft. Size 6 3/4 in. — Packer Depth ___ ft. Size ___ in.

Depth of Selective Zone Set ___

Top Recorder Depth (Inside) 2687 ft. — Recorder Number 13306 — Cap. 4625

Bottom Recorder Depth (Outside) 2690 ft. — Recorder Number 13565 — Cap. 4475

Below Straddle Recorder Depth ___ ft. — Recorder Number ___ — Cap. ___

Drilling Contractor Summit Drilling Rig #1 — Drill Collar Length 313 I.D. 2.25 in.

Mud Type Chemical Viscosity 41 — Weight Pipe Length ___ I.D. ___ in.

Weight 9.7 Water Loss 9.2 cc. — Drill Pipe Length 2347 I.D. 3.25 in.

Chlorides 1300 P.P.M. — Test Tool Length 22 ft. Tool Size 5½ in.

Jars: Make ___ Serial Number ___ — Anchor Length 28 ft. Size 5½ in.

Did Well Flow? No Reversed Out No — Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Gravity Oil ___ — Main Hole Size 7 7/8 in. Tool Joint Size 3½FH in.

Blow: Weak blow building to 6" in water Initial Flow Period.
Weak blow building to 5" in water Final Flow Period.

Recovered 45 ft. of Very slightly oil cut mud. 1% Oil

Recovered 90 ft. of Slightly oil cut mud. 3% Oil

Recovered 90 ft. of Mud cut water.

Recovered ___ ft. of ___

Recovered ___ ft. of ___

Remarks: DST Fluid Chlorides 32,000 PPM

Time Set Packer (s) 6:06 A M. Time Started Off Bottom 9:51 A M. Maximum Temperature 112°

Initial Hydrostatic Pressure		(A) 1502	P.S.I.	
Initial Flow Period Minutes	30	(B) 28	P.S.I.	to
		(C) 60	P.S.I.	
Initial Closed In Period Minutes	45	(D) 195	P.S.I.	
Final Flow Period Minutes	60	(E) 83	P.S.I.	to
		(F) 116	P.S.I.	
Final Closed In Period Minutes	90	(G) 202	P.S.I.	
Final Hydrostatic Pressure		(H) 1492	P.S.I.	

RICKETTS TESTING, INC.

Pressure Data

Date 3-5-00 Test Ticket No 1941

Recorder No 13306 Capacity 4625 Location 2687 Ft.

Clock No Elevation 1540 G.L. Well Temperature 112 °F

Point		Pressure	
A	Initial Hydrostatic Mud	1502	P.S.I.
B	First Initial Flow Pressure	28	P.S.I.
C	First Final Flow Pressure	60	P.S.I.
D	Initial Closed-in Pressure	195	P.S.I.
E	Second Initial Flow Pressure	83	P.S.I.
F	Second Final Flow Pressure	116	P.S.I.
G	Final Closed-in Pressure	202	P.S.I.
H	Final Hydrostatic Mud	1492	P.S.I.

	Time Given	Time Computed
Open Tool	6:06 AM	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	45 Mins.	45 Mins.
Second Flow Pressure	60 Mins.	60 Mins.
Final Closed-in Pressure	90 Mins.	90 Mins.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 6 Inc.		Breakdown: 15 Inc.		Breakdown: 12 Inc.		Breakdown: 30 Inc.	
of 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 mins. and a	
final inc. of Min.		final inc. of Min.		final inc. of Min.		final inc. of Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	28	0	60	0	83	0	116
P 2 5	28	3	95	5	83	3	135
P 3 10	34	6	138	10	85	6	151
P 4 15	41	9	154	15	88	9	165
P 5 20	50	12	167	20	92	12	174
P 6 25	56	15	172	25	95	15	181
P 7 30	60	18	179	30	98	18	184
P 8 35		21	182	35	101	21	186
P 9 40		24	185	40	104	24	188
P10 45		27	188	45	107	27	189
P11 50		30	190	50	110	30	190
P12 55		33	191	55	113	33	191
P13 60		36	192	60	116	36	192
P14 65		39	193	65		39	193
P15 70		42	194	70		42	194
P16 75		45	195	75		45	195
P17 80		48		80		48	196
P18 85		51		85		51	197
P19 90		54		90		54	198
P20 95		57				57	199
		60				60	200

RICKETTS TESTING
Pressure Data

Date _____ Test Ticket No. 1941

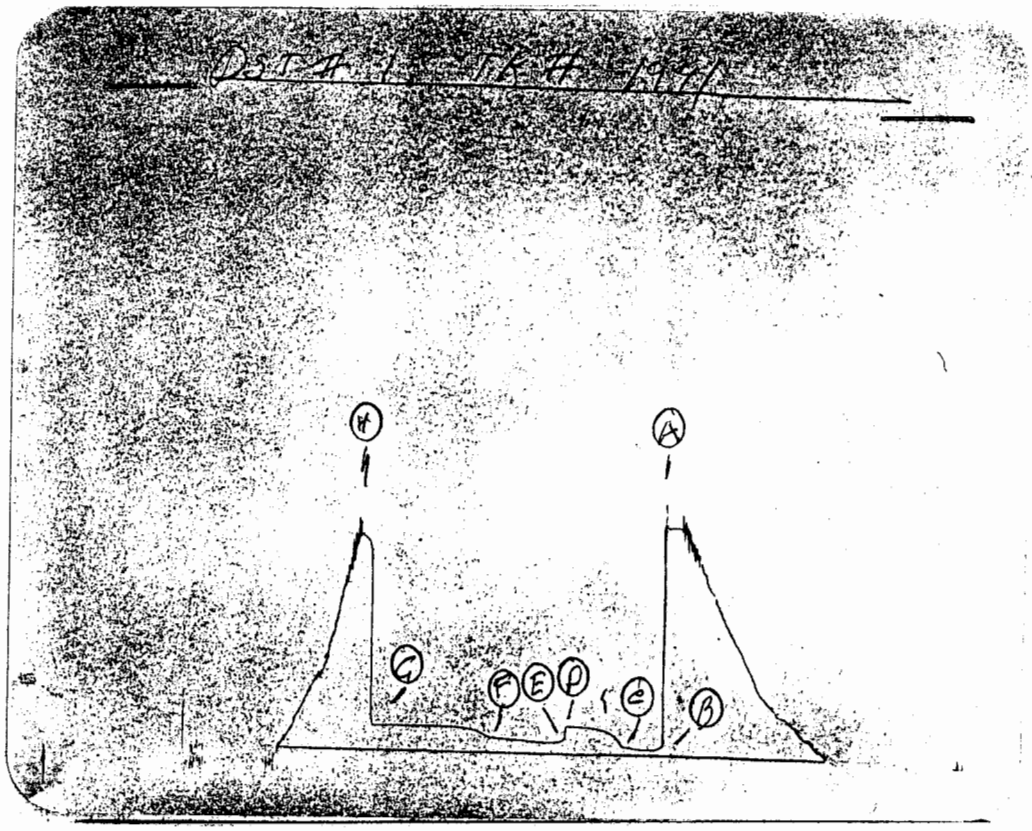
Recorder No. _____ Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

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	Mins.
C First Final Flow Pressure	P.S.I.	Initial Closed-in Pressure	Mins	Mins.
D Initial Closed-in Pressure	P.S.I.	Second Flow Pressure	Mins	Mins.
E Second Initial Flow Pressure	P.S.I.	Final Closed-in Pressure	Mins	Mins.
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 ____ mins. and a		of ____ mins. and a		of ____ mins. and a		of ____ mins. and a	
final inc. of ____ Min.		final inc. of ____ Min.		final inc. of ____ Min.		final inc. of ____ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						63	201
P 2						66	202
P 3						69	202
P 4						72	202
P 5						75	202
P 6						78	202
P 7						81	202
P 8						84	202
P 9						87	202
P10						90	202
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1506	1502	PSI
(B)	First Initial Flow Pressure	30	28	PSI
(C)	First Final Flow Pressure	63	60	PSI
(D)	Initial Closed-in Pressure	211	195	PSI
(E)	Second Initial Flow Pressure	75	83	PSI
(F)	Second Final Flow Pressure	86	116	PSI
(G)	Final Closed-in Pressure	211	202	PSI
(H)	Final Hydrostatic Mud	1495	1492	PSI

Ricketts Testing, Inc.

ORIGINAL

Company T-J RESOURCES — Lease & Well No. GRAY #4

Elevation 1540 G.L. Formation MISSISSIPPI — Ticket No. 1942

Date 3-6-00 Sec. 31 Twp. 26S Range 8E County BUTLER State KS

Test Approved by BILL STOUT — Ricketts Representative JIM RICKETTS

Formation Test No. 2 Interval Tested from 2769 ft. to 2801 ft. Total Depth 2801 ft.

Packer Depth 2769 ft .Size 6 3/4 in. — Packer Depth ____ ft. Size ____ in.

Packer Depth 2766 ft Size 6 3/4 in. — Packer Depth ____ ft. Size ____ in.

Depth of Selective Zone Set ____

Top Recorder Depth (Inside) 2774 ft. — Recorder Number 13306 Cap. 4625

Bottom Recorder Depth (Outside) 2777 ft. — Recorder Number 13565 Cap. 4475

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

Drilling Contractor Summit Drilling Rig #1 — Drill Collar Length 313 I.D. 2.25 in.

Mud Type Chemical Viscosity 42 — Weight Pipe Length ____ I.D. ____ in.

Weight 9.7 Water Loss 9.2 cc. — Drill Pipe Length 2434 I.D. 3.25 in.

Chlorides 1300 P.P.M. — Test Tool Length 22 ft. Tool Size. 5½ in.

Jars: Make ____ Serial Number ____ — Anchor Length 32 ft. Size 5½ in.

Did Well Flow? No Reversed Out No — Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Gravity Oil ____ — Main Hole Size 7 7/8 in. Tool Joint Size 3½FH in.

Blow: Strong blow in 2 minutes Initial Flow Period.
Strong blow in 10 minutes Final Flow Period.

Recovered 330 ft. of Gas in pipe.

Recovered 40 ft. of Mud cut oil. 40% Oil 10% Gas 50% Mud

Recovered 120 ft. of Oil cut mud. 5% Oil 10% Gas 85% Mud

Recovered 300 ft. of Mud cut water with a trace of oil less than 1%

Recovered ____ ft. of ____

Remarks: DST Fluid Chlorides 40,000 PPM

Time Set Packer (s) 1:57 A.M. Time Started Off Bottom 5:42 A.M. Maximum Temperature 118°

Initial Hydrostatic Pressure	(A)	1473	P.S.I.
Initial Flow Period Minutes 15	(B)	39	P.S.I. to
	(C)	61	P.S.I.
Initial Closed In Period Minutes 60	(D)	802	P.S.I.
Final Flow Period Minutes 60	(E)	88	P.S.I. to
	(F)	167	P.S.I.
Final Closed In Period Minutes 90	(G)	766	P.S.I.
Final Hydrostatic Pressure	(H)	1452	P.S.I.

RICKETTS TESTING, INC.

Pressure Data

Date 3-6-00 Test Ticket No 1942

Recorder No 13306 Capacity 4625 Location 2774 Ft.

Clock No Elevation 1540 G.L. Well Temperature 118 °F

Point		Pressure	
A	Initial Hydrostatic Mud	1473	P.S.I.
B	First Initial Flow Pressure	39	P.S.I.
C	First Final Flow Pressure	61	P.S.I.
D	Initial Closed-in Pressure	802	P.S.I.
E	Second Initial Flow Pressure	88	P.S.I.
F	Second Final Flow Pressure	167	P.S.I.
G	Final Closed-in Pressure	766	P.S.I.
H	Final Hydrostatic Mud	1452	P.S.I.

	Time Given	Time Computed
Open Tool	1:57 A M	
First Flow Pressure	15 Mins.	15 Mins.
Initial Closed-in Pressure	60 Mins.	60 Mins.
Second Flow Pressure	60 Mins.	60 Mins.
Final Closed-in Pressure	90 Mins.	90 Mins.

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 3 Inc.
of 5 mins. and a
final inc. of Min.

Point	Mins.	Press.
P 1	0	39
P 2	5	39
P 3	10	50
P 4	15	61
P 5	20	
P 6	25	
P 7	30	
P 8	35	
P 9	40	
P10	45	
P11	50	
P12	55	
P13	60	
P14	65	
P15	70	
P16	75	
P17	80	
P18	85	
P19	90	
P20	95	

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

Point Minutes	Press.
0	61
3	535
6	663
9	701
12	729
15	746
18	757
21	765
24	772
27	778
30	783
33	785
36	787
39	789
42	791
45	793
48	795
51	797
54	799
57	801
60	802

Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of Min.

Point Minutes	Press.
0	88
5	92
10	99
15	110
20	119
25	132
30	141
35	146
40	151
45	155
50	159
55	164
60	167
65	
70	
75	
80	
85	
90	

Final Shut-In
Breakdown: 30 Inc.
of 3 mins. and a
final inc. of Min.

Point Minutes	Press.
0	167
3	336
6	447
9	503
12	536
15	561
18	583
21	599
24	613
27	630
30	643
33	656
36	668
39	680
42	690
45	699
48	708
51	716
54	722
57	729
60	734

RICKETTS TESTING
Pressure Data

Date _____ Test Ticket No. 1942

Recorder No. _____ Capacity _____ Location _____ Ft.

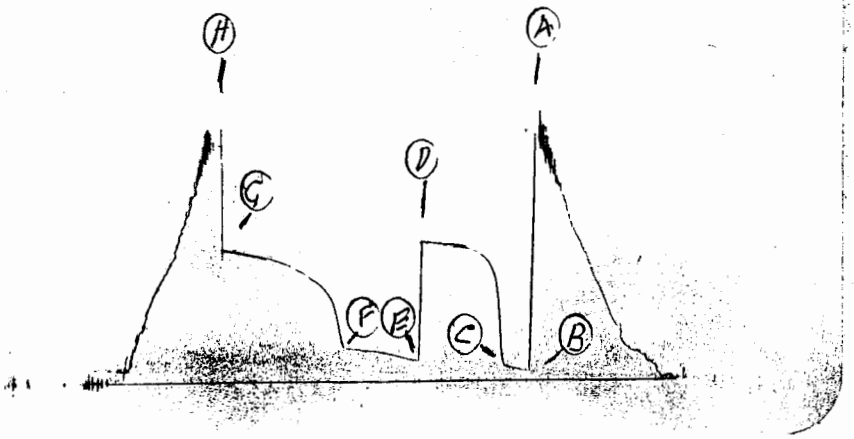
Clock No. _____ Elevation _____ Well Temperature _____ °F

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.	Mins.
C First Final Flow Pressure	P.S.I.	Initial Closed-in Pressure	Mins.	Mins.
D Initial Closed-in Pressure	P.S.I.	Second Flow Pressure	Mins.	Mins.
E Second Initial Flow Pressure	P.S.I.	Final Closed-in Pressure	Mins.	Mins.
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 _____ mins. and a		of _____ mins. and a		of _____ mins. and a		of _____ mins. and a	
final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						63	739
P 2						66	743
P 3						69	747
P 4						72	750
P 5						75	753
P 6						78	756
P 7						81	759
P 8						84	762
P 9						87	764
P10						90	766
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

D.S.T #2 TK # 1992



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1477	1473	PSI
(B)	First Initial Flow Pressure	41	39	PSI
(C)	First Final Flow Pressure	63	61	PSI
(D)	Initial Closed-in Pressure	855	802	PSI
(E)	Second Initial Flow Pressure	80	88	PSI
(F)	Second Final Flow Pressure	142	167	PSI
(G)	Final Closed-in Pressure	720	766	PSI
(H)	Final Hydrostatic Mud	1455	1452	PSI