

Superior Testers Enterprises, Inc.

R.R. 3, Box 295B, Great Bend, Kansas 67530

(316) 792-6902

Date 4/23/89 Location 22-11-31²¹ Elevation 2273 County Trab0

Company Mc Names + PATTERSON Number of Copies 5

Charts Mailed to PO Box 20058 WICHITA KS 67208

Drilling Contractor Shields Drilling Co.

Length Drill Pipe 2870 I.D. Drill Pipe 380 Tool Joint Size 4 1/2 FH

Length Weight Pipe 265 I.D. Weight Pipe 275 Tool Joint Size 4 1/2 FH

Length Drill Collars — I.D. Drill Collars — Tool Joint Size —

Top Packer Depth 3595 Bottom Packer Depth 3600 Number of Packers Two Packer Size 6-3/4

TESTED FROM 3600 TO 36300 ANCHOR LENGTH 30 TOTAL DEPTH 3630 Hole Size 7 1/8

LEASE & WELL NO. Ehlenberg FORMATION TESTED LAASING TEST NO. 1

Mud Weight 9.6 Viscosity 40 Water Loss 11.6 Chlorides - Pits — D.S.T. —

Maximum Temp. 119 °F Initial Hydrostatic Pressure (A) 1913 P.S.I. Final Hydrostatic Pressure (H) 1866 P.S.I.

Tool Open I.F.P. from 320 m to 346 m 20 min

Tool Closed I.C.I.P. from 340 m to 410 m 30 min

Tool Open F.F.P. from — m to — m — min

Tool Closed F.C.I.P. from — m to — m — min

Initial Blow NO BLOW

Final Blow —

Total Feet Recovered 10' Thin Drilling mud Gravity of Oil — Corrected —

Feet of — % Gas — % Oil — % Mud — % Water —

Feet of — % Gas — % Oil — % Mud — % Water —

Feet of — % Gas — % Oil — % Mud — % Water —

Feet of — % Gas — % Oil — % Mud — % Water —

Feet of — % Gas — % Oil — % Mud — % Water —

Feet of — % Gas — % Oil — % Mud — % Water —

Feet of — % Gas — % Oil — % Mud — % Water —

Feet of — % Gas — % Oil — % Mud — % Water —

Feet of — % Gas — % Oil — % Mud — % Water —

Feet of — % Gas — % Oil — % Mud — % Water —

Remarks —

Extra Equipment - Jars — Safety Joint — Extra Packer — Straddle — Hook Wall —

Top Recorder No. 5463 Clock No. 23827 Depth 3625 Cir. Sub — Sampler —

Bottom Recorder No. 13204 Clock No. 11577 Depth 3627 Insurance —

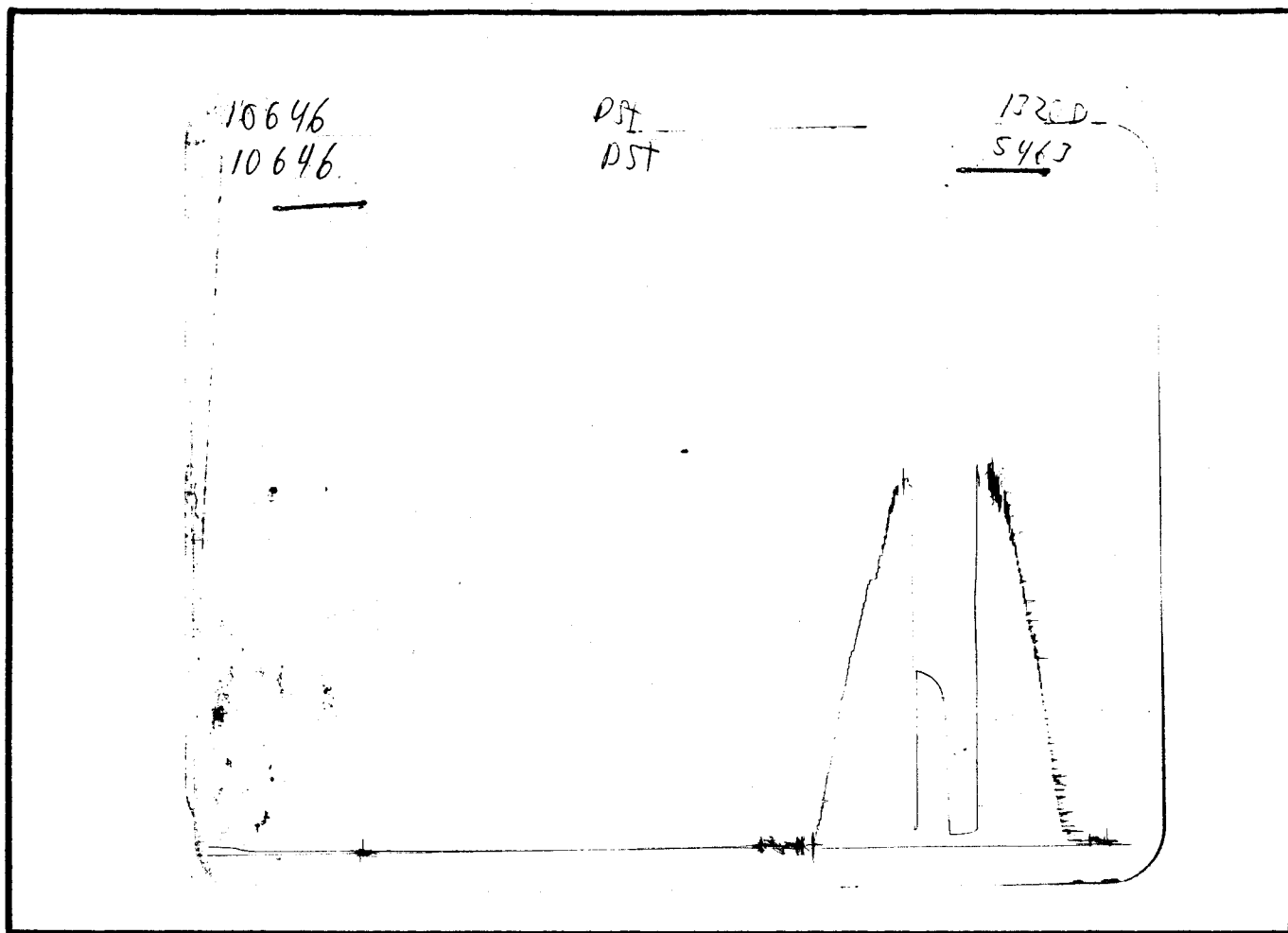
Price of Job —

Tool Operator PAT STEVENSON

Approved By —

No 10646

Superior Testers Enterprises, 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 for at cost by the party for whom the test is made.



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	<u>1913</u>	<u>1869</u>	P.S.I.
(B) First Initial Flow Pressure	<u>73</u>	<u>91</u>	P.S.I.
(C) First Final Flow Pressure	<u>54</u>	<u>65</u>	P.S.I.
(D) Initial Closed-in Pressure	<u>898</u>	<u>888</u>	P.S.I.
(E) Second Initial Flow Pressure	_____	_____	P.S.I.
(F) Second Final Flow Pressure	_____	_____	P.S.I.
(G) Final Closed-in Pressure	_____	_____	P.S.I.
(H) Final Hydrostatic Mud	<u>1866</u>	<u>1839</u>	P.S.I.

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : MCNAMES & PATTERSON
ADDRESS : P.O.BOX 20058, WICHITA
STATE & COUNTY : KANSAS, TREGO
ELEV. (GR) : 2268 (KB) : 2273
WELL NAME : EHLEMBURG
LOCATION : 22-11-21
FIELD :
TEST DATE : 4-23-1989

EQUIPMENT AND HOLE DATA

FORMATION TESTED : LANSING
TEST INT. KB : 3600 to 3530
ANCHOR LENGTH(ft) : 30
TYPE OF TEST : Conventional
TOTAL DEPTH(ft- kb) : 3630
MAIN HOLE SIZE(in) : 7 7/8
MUD WEIGHT : 9.6
MUD VISCOSITY : 40
MUD CHLORIDES :
SURFACE CHOKE : 3/4
BOTTOM CHOKE(in) : 3/4
TOOL SIZE(O.D.) : 5 1/2
TOOL JOINT SIZE(F.H.) : 4 1/2
RESERVOIR TEMPERATURE(F) : 119
DRILL PIPE LENGTH(ft) : 2870
DRILL PIPE O.D.(in) : 3.82
WEIGHT PIPE LENGTH(ft) : 765
WEIGHT PIPE ID : 2.75
DRILL COLLAR LENGTH(ft) : 0
DRILL COLLAR I.D.(in) : 2.259
TOP PACKER DEPTH(kb) : 3595
BOTTOM PACKER DEPTH(kb) : 3600
DUAL PACKERS :
PACKER SIZE(in) : 6 3/4
PACKER HOLD : Yes
TOOL PLUG : No
REVERSED OUT : No
TEST TICKET NUMBER : 10646

EXTRA EQUIPMENT :

ELEMENT SERIAL NO. : 5463
RANGE : 0 - 3650
CAL. EQU. : 922.07 * Defl. - 2.47
CLOCK RANGE : 12 HOURS

SURFACE BLOW

1st Opening : NO BLOW
2nd Opening :

RECOVERY

Recovered 10 feet of THIN MUD

REMARKS :

WITNESSED BY : JERRY HONAS
TOOL OPERATOR : PAT STEVENSON

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : MCNAMES & PATTERSON
 DATE OF TEST : 4-23-1989
 DEPTH : 3625.0

WELL NAME : EHLEMBURG
 LOCATION : 22-11-21
 SERIAL NO. : 5463

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			CALC	CORR	CORRECTED
TEST NO.:1					
Depth : 3625.0 ft-kb					
-1ST HYDROSTATIC	0.0	2.033	1872.10	-2.18	1869.93
-3:20 1ST FLOW	0.0	.100	89.74	2.00	91.74
- 3:25	5.0	.079	70.38	2.10	72.48
- 3:30	10.0	.073	64.84	2.13	66.97
- 3:35	15.0	.071	63.00	2.14	65.14
- 3:40	20.0	.071	63.00	2.14	65.14
- 3:41	21.0	.071	63.00	2.14	65.14
-3:41 END FLOW	0.0	.071	63.00	2.14	65.14
- 3:46	5.0	.832	764.70	-1.39	763.30
- 3:51	10.0	.903	830.16	-1.72	828.44
- 3:56	15.0	.937	861.51	-1.88	859.63
- 4:01	20.0	.955	878.11	-1.96	876.15
- 4:06	25.0	.968	890.10	-2.02	888.07
-4:06 1ST SHUT-IN	0.0	.968	890.10	-2.02	888.07
- 4:06	0.0	2.000	1841.67	-2.19	1839.48
-2ND HYDROSTATIC	0.0	2.000	1841.67	-2.19	1839.48

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Date 4 25 89 Location 22 11 31 Elevation 2273 County IREGO

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Charts Mailed to Po Box 20058 Wichita KS 67208

Drilling Contractor _____

Length Drill Pipe 2850 I.D. Drill Pipe 380 Tool Joint Size 4 1/2 FH

Length Weight Pipe 765 I.D. Weight Pipe 275 Tool Joint Size 4 1/2 FH

Length Drill Collars 127 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2 FH

Top Packer Depth 3745 Bottom Packer Depth 3750 Number of Packers TWO Packer Size 6 3/4

TESTED FROM 3750 TO 3820 ANCHOR LENGTH 70 TOTAL DEPTH 3820 Hole Size 7 7/8

LEASE & WELL NO. Ehlemberg FORMATION TESTED LANSING + KC TEST NO. 2

Mud Weight 9.7 Viscosity 41 Water Loss 13.0 Chlorides - Pits _____ D.S.T. _____

Maximum Temp. 119 °F Initial Hydrostatic Pressure (A) 2051 P.S.I. Final Hydrostatic Pressure (H) 2024 P.S.I.

Tool Open I.F.P. from 215 m to 235 m 20 min

Tool Closed I.C.I.P. from 235 m to 305 m 30 min

Tool Open F.F.P. from 305 m to 325 m 20 min

Tool Closed F.C.I.P. from 325 m to 355 m 30 min

Initial Blow WEAK INTERMITTENT BLOW DIED 11"

Final Blow NO BLOW

Total Feet Recovered 15' Drilling mvp TRACES of oil IN TRO Gravity of Oil _____ Corrected _____

Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

Remarks _____

Extra Equipment - Jars _____ Safety Joint _____ Extra Packer _____ Straddle _____ Hook Wall _____

Top Recorder No. 5463 Clock No. 23827 Depth 3814 Cir. Sub _____ Sampler _____

Bottom Recorder No. 1320P Clock No. 11577 Depth 3817 Insurance _____

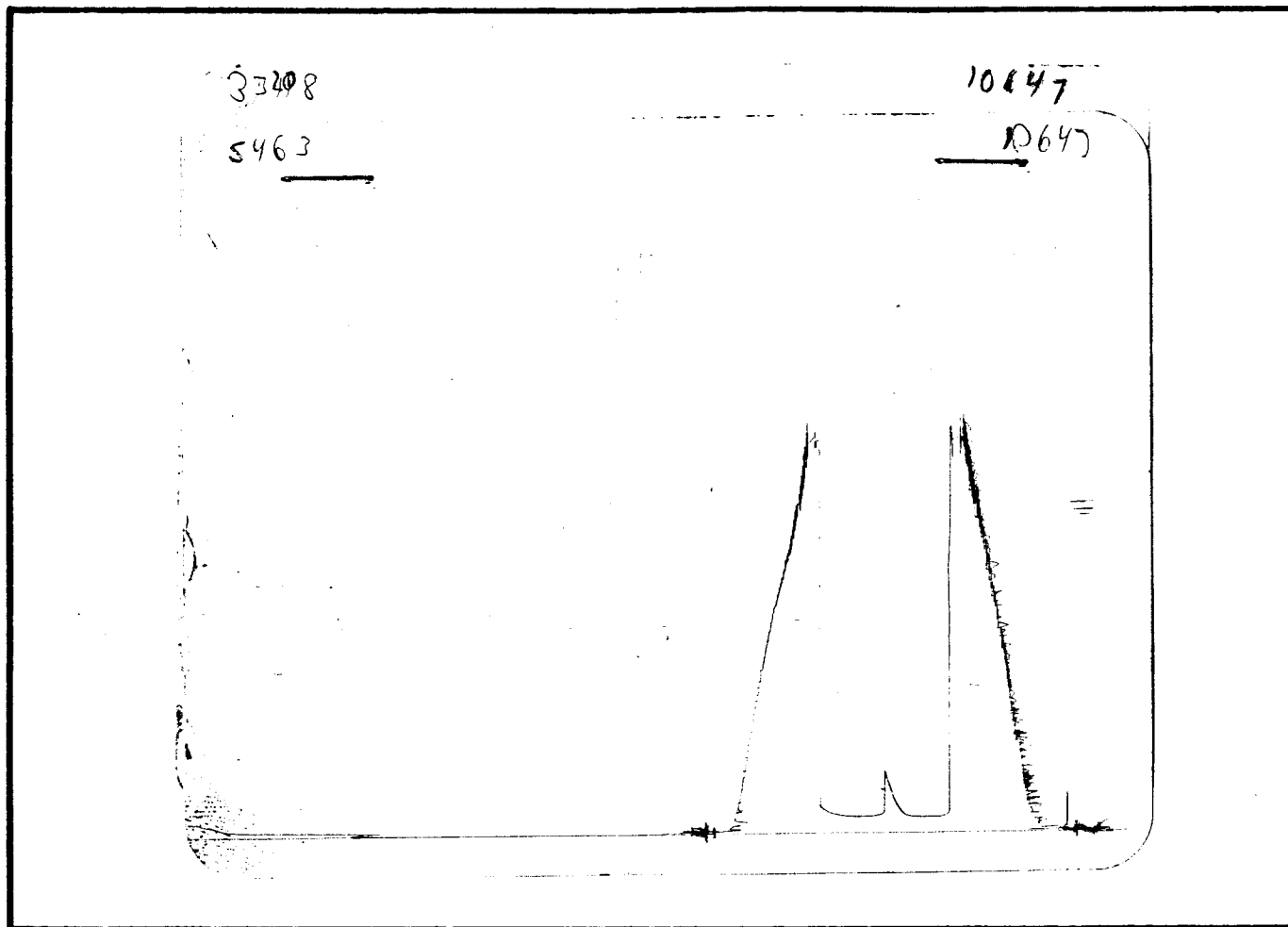
Price of Job _____

Tool Operator Pat Hansen

Approved By _____

NO 10647

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This is an actual photograph of recorder chart.

POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	2051	1988	P.S.I.
(B) First Initial Flow Pressure	82	79	P.S.I.
(C) First Final Flow Pressure	73	74	P.S.I.
(D) Initial Closed-in Pressure	311	309	P.S.I.
(E) Second Initial Flow Pressure	82	81	P.S.I.
(F) Second Final Flow Pressure	73	77	P.S.I.
(G) Final Closed-in Pressure	128	125	P.S.I.
(H) Final Hydrostatic Mud	2024	1961	P.S.I.

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : MCNAMES & PATTERSON WELL NAME : EHLEMBURG
ADDRESS : P.O.BOX 2005B, WICHITA LOCATION : 22-11-21
STATE & COUNTY : KANSAS, TREGO FIELD :
ELEV.(GR) : 2268 (KB) : 2273 TEST DATE : 4-25-1989

EQUIPMENT AND HOLE DATA

FORMATION TESTED : LANSING	DRILL PIPE LENGTH(ft) : 2650
TEST INT. KB : 3750 to 3820	DRILL PIPE O.D.(in) : 3.82
ANCHOR LENGTH(ft) : 70	WEIGHT PIPE LENGTH(ft) :
TYPE OF TEST : Conventional	WEIGHT PIPE ID : 2.75
TOTAL DEPTH(ft-kg) : 3820	DRILL COLLAR LENGTH(ft) : 0
MAIN HOLE SIZE(in) : 7 7/8	DRILL COLLAR I.D.(in) : 2.259
MUD WEIGHT : 9.7	TOP PACKER DEPTH(kb) : 3745
MUD VISCOSITY : 41	BOTTOM PACKER DEPTH(kb) : 3750
MUD CHLORIDES :	DUAL PACKERS :
SURFACE CHOKE : 3/4	PACKER SIZE(in) : 6 3/4
BOTTOM CHOKE(in) : 3/4	PACKER HOLD : Yes
TOOL SIZE(O.D.) : 5 1/2	TOOL PLUG : No
TOOL JOINT SIZE(F.H.) : 4 1/2	REVERSED OUT : No
RESERVOIR TEMPERATURE(F) : 119	TEST TICKET NUMBER : 10647

EXTRA EQUIPMENT :

ELEMENT SERIAL NO. : 5463
RANGE : 0 - 3650 CLOCK RANGE : 12 HOURS
CAL. EQU. : 922.07 * Defl. - 2.47

SURFACE BLOW

1st Opening : WEAK BLOW DIED IN 11 MINUTES
2nd Opening : NO BLOW

RECOVERY

Recovered 15 feet of DRILLING MUD WITH A TRACE OF OIL IN THE TOOL

REMARKS :

WITNESSED BY : JERRY HONAS

TOOL OPERATOR : PAT STEVENSON

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : MCNAMES & PATTERSON
 DATE OF TEST : 4-25-1989
 DEPTH : 3814.0

WELL NAME : EHLEMBURG
 LOCATION : 22-11-21
 SERIAL NO. : 5463

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			CALC	CORR	CORRECTED
TEST NO.: 2					
Depth : 3814.0 ft-kb					
-1ST HYDROSTATIC	0.0	2.162	1991.05	-2.12	1988.93
-2:15 1ST FLOW	0.0	.087	77.75	2.06	79.82
- 2:20	5.0	.084	74.99	2.08	77.06
- 2:25	10.0	.082	73.14	2.09	75.23
- 2:30	15.0	.081	72.22	2.09	74.31
- 2:35	20.0	.081	72.22	2.09	74.31
-2:35 END FLOW	0.0	.081	72.22	2.09	74.31
- 2:40	5.0	.081	72.22	2.09	74.31
- 2:45	10.0	.082	73.14	2.09	75.23
- 2:50	15.0	.097	86.97	2.02	88.99
- 2:55	20.0	.152	137.69	1.76	139.45
- 3:00	25.0	.245	223.44	1.33	224.77
- 3:04	29.0	.328	299.97	.95	300.92
-3:04 1ST SHUT-IN	0.0	.328	299.97	.95	300.92
-3:04 2ND FLOW	0.0	.089	79.60	2.05	81.65
- 3:09	5.0	.089	79.60	2.05	81.65
- 3:14	10.0	.087	77.75	2.06	79.82
- 3:19	15.0	.085	75.91	2.07	77.98
- 3:24	20.0	.085	75.91	2.07	77.98
- 3:24	20.0	.085	75.91	2.07	77.98
-3:24 END FLOW	0.0	.085	75.91	2.07	77.98
- 3:29	5.0	.085	75.91	2.07	77.98
- 3:34	10.0	.086	76.83	2.07	78.90
- 3:39	15.0	.002	0.00	0.00	0.00
- 3:44	20.0	.102	91.58	1.99	93.58
- 3:49	25.0	.114	102.65	1.94	104.59
- 3:53	29.0	.137	123.86	1.83	125.69
-3:53 2ND SHUT-IN	0.0	.137	123.86	1.83	125.69
-2ND HYDROSTATIC	0.0	2.132	1963.39	-2.13	1961.25

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Date 4/26/89 Location 22 11 21 Elevation 2273 County Trego

Company Mc Names & Patterson Number of Copies 5

Charts Mailed to PO Box 20058 Wichita KS 67208

Drilling Contractor Shields Drilling Co

Length Drill Pipe 3034 I.D. Drill Pipe 3 80 Tool Joint Size 4 1/2 ft

Length Weight Pipe 765 I.D. Weight Pipe 2 75 Tool Joint Size 4 1/2 ft

Length Drill Collars 187 I.D. Drill Collars 2.25 Tool Joint Size 4 H 90

Top Packer Depth 3927 Bottom Packer Depth 3932 Number of Packers Two Packer Size 13

TESTED FROM 3932 TO 3949 ANCHOR LENGTH 17 TOTAL DEPTH 3949 Hole Size 7 3/4

LEASE & WELL NO. Ehlenburg 1 FORMATION TESTED Arg TEST NO. 3

Mud Weight 9.7 Viscosity 47 Water Loss 9.6 Chlorides - Pits — D.S.T. —

Maximum Temp. 121 °F Initial Hydrostatic Pressure (A) 2157 P.S.I. Final Hydrostatic Pressure (H) 2098 P.S.I.

Tool Open I.F.P. from 430 m to 450 m 20 min

Tool Closed I.C.I.P. from 450 m to 520 m 30 min

Tool Open F.F.P. from 520 m to 540 m 20 min

Tool Closed F.C.I.P. from 540 m to 610 m 30 min

Initial Blow WEAK BLOW 2" INTO WATER DIED 11

Final Blow NO BLOW

Total Feet Recovered 10' Drilling mud Gravity of Oil — Corrected

Feet of — % Gas — % Oil — % Mud — % Water

Feet of — % Gas — % Oil — % Mud — % Water

Feet of — % Gas — % Oil — % Mud — % Water

Feet of — % Gas — % Oil — % Mud — % Water

Feet of — % Gas — % Oil — % Mud — % Water

Feet of — % Gas — % Oil — % Mud — % Water

Feet of — % Gas — % Oil — % Mud — % Water

Feet of — % Gas — % Oil — % Mud — % Water

Feet of — % Gas — % Oil — % Mud — % Water

Feet of — % Gas — % Oil — % Mud — % Water

Remarks —

Extra Equipment - Jars — Safety Joint — Extra Packer — Straddle — Hook Wall —

Top Recorder No. 5463 Clock No. 27827 Depth 3943 Cir. Sub — Sampler —

Bottom Recorder No. 12208 Clock No. 11377 Depth 3946 Insurance —

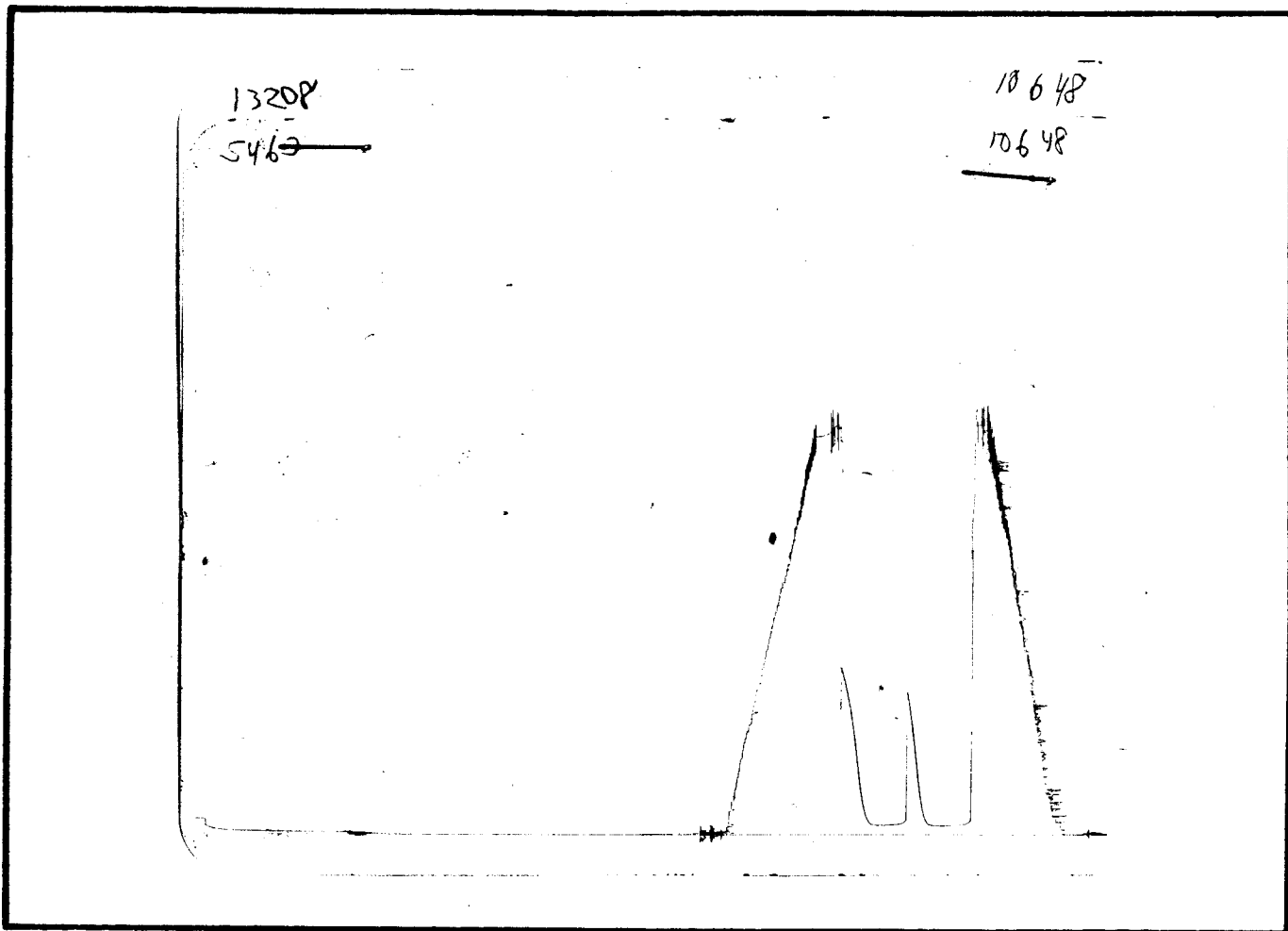
Price of Job —

Tool Operator PAT STEVENSON

Approved By —

No 10648

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This is an actual photograph of recorder chart.

POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	2153	2074	P.S.I.
(B) First Initial Flow Pressure	54	44	P.S.I.
(C) First Final Flow Pressure	45	41	P.S.I.
(D) Initial Closed-in Pressure	715	711	P.S.I.
(E) Second Initial Flow Pressure	54	52	P.S.I.
(F) Second Final Flow Pressure	45	45	P.S.I.
(G) Final Closed-in Pressure	815	338	P.S.I.
(H) Final Hydrostatic Mud	2098	2071	P.S.I.

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : MCNAMES & PATTERSON
ADDRESS : P.O.BOX 20058, WICHITA
STATE & COUNTY : KANSAS, TREGO
ELEV. (GR) : 2268 (KB) : 2273
WELL NAME : EHLEMBURG
LOCATION : 22-11-21
FIELD :
TEST DATE : 4-26-1989

EQUIPMENT AND HOLE DATA

FORMATION TESTED : ARBUCKLE
TEST INT. KB : 3932 to 3949
ANCHOR LENGTH(ft) : 17
TYPE OF TEST : Conventional
TOTAL DEPTH(ft-kb) : 3949
MAIN HOLE SIZE(in) : 7 7/8
MUD WEIGHT : 9.7
MUD VISCOSITY : 47
MUD CHLORIDES :
SURFACE CHOKE : 3/4
BOTTOM CHOKE(in) : 3/4
TOOL SIZE(O.D.) : 5 1/2
TOOL JOINT SIZE(F.H.) : 4 1/2
RESERVOIR TEMPERATURE(F) : 121
DRILL PIPE LENGTH(ft) : 3034
DRILL PIPE O.D.(in) : 3.82
WEIGHT PIPE LENGTH(ft) : 765
WEIGHT PIPE ID : 2.75
DRILL COLLAR LENGTH(ft) : 0
DRILL COLLAR I.D.(in) : 2.259
TOP PACKER DEPTH(kb) : 3927
BOTTOM PACKER DEPTH(kb) : 3932
DUAL PACKERS :
PACKER SIZE(in) : 6 3/4
PACKER HOLD : Yes
TOOL PLUG : No
REVERSED OUT : No
TEST TICKET NUMBER : 10648

EXTRA EQUIPMENT :

ELEMENT SERIAL NO. : 5463
RANGE : 0 - 3650
CAL. EQU. : 922.07 * Defl. - 2.47
CLOCK RANGE : 12 HOURS

SURFACE BLOW

1st Opening : WEAK BLOW FOR 11 MINUTES AND DIED
2nd Opening : NO BLOW

RECOVERY

Recovered 10 feet of DRILLING MUD

REMARKS :

WITNESSED BY : JERRY HONAS

TOOL OPERATOR : PAT STEVENSON

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : MCNAMES & PATTERSON
DATE OF TEST : 4-26-1989
DEPTH : 3943.0

WELL NAME : EHLEMBURG
LOCATION : 22-11-21
SERIAL NO. : 5463

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			CALC	CORR	CORRECTED
TEST NO.: 3					
Depth : 3943.0 ft-kb					
-1ST HYDROSTATIC	0.0	2.254	2075.88	-1.81	2074.07
-4:30 1ST FLOW	0.0	.048	41.79	2.24	44.04
- 4:35	5.0	.048	41.79	2.24	44.04
- 4:40	10.0	.047	40.87	2.25	43.12
- 4:45	15.0	.045	39.03	2.26	41.28
- 4:50	20.0	.045	39.03	2.26	41.28
-4:50 END FLOW	0.0	.045	39.03	2.26	41.28
- 4:55	5.0	.045	39.03	2.26	41.28
- 5:00	10.0	.045	39.03	2.26	41.28
- 5:05	15.0	.072	63.92	2.13	66.06
- 5:10	20.0	.237	216.06	1.37	217.43
- 5:15	25.0	.539	494.53	-.03	494.50
- 5:20	30.0	.775	712.14	-1.13	711.01
-5:20 1ST SHUT-IN	0.0	.775	712.14	-1.13	711.01
- 5:20	0.0	.058	51.01	2.20	53.21
-5:20 2ND FLOW	0.0	.057	50.09	2.20	52.29
- 5:25	5.0	.057	50.09	2.20	52.29
- 5:30	10.0	.053	46.40	2.22	48.62
- 5:35	15.0	.050	43.64	2.23	45.87
- 5:40	20.0	.050	43.64	2.23	45.87
-5:40 END FLOW	0.0	.050	43.64	2.23	45.87
- 5:45	5.0	.048	41.79	2.24	44.04
- 5:50	10.0	.070	62.08	2.14	64.22
- 5:55	15.0	.201	182.87	1.53	184.40
- 6:00	20.0	.488	447.50	.20	447.71
- 6:05	25.0	.722	663.27	-.88	662.39
- 6:12	32.0	.914	840.31	-1.77	838.53
-6:12 2ND SHUT-IN	0.0	.914	840.31	-1.77	838.53
-2ND HYDROSTATIC	0.0	2.251	2073.11	-1.82	2071.30