

Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 8-6-1988 Location NE-SW-NE 34-12-16 Elevation 2042 County Ellis

Company Mustang Companies Inc. Number of Copies 5

Charts Mailed to P.O. Drawer 1609 Great Bend Kansas 67530

Drilling Contractor Western Kansas Drilling Rig #1

Length Drill Pipe 3187 I.D. Drill Pipe _____ Tool Joint Size 4 1/2" X.H.

Length Weight Pipe NONE I.D. Weight Pipe NONE Tool Joint Size NONE

Length Drill Collars NONE I.D. Drill Collars NONE Tool Joint Size 4 1/2" X.H.

Top Packer Depth 3201 Bottom Packer Depth 3206 Number of Packers 2 Packer Size 6 3/4

TESTED FROM 3206 TO 3245 ANCHOR LENGTH 39 TOTAL DEPTH 3245 Hole Size 7 7/8

LEASE & WELL NO. Froelich "F" #7 FORMATION TESTED Toronto TEST NO. 1

Mud Weight 9.9 Viscosity 48 Water Loss 11.3 Chlorides - Pits 8000 D.S.T. _____

Maximum Temp. 101 °F Initial Hydrostatic Pressure (A) 1552 P.S.I. Final Hydrostatic Pressure (H) 1543 P.S.I.

Tool Open I.F.P. from 8:15 p.m. to 8:45 p.m. 30 min

Tool Closed I.C.I.P. from 8:45 p.m. to 9:15 p.m. 30 min

Tool Open F.F.P. from 9:15 p.m. to 9:20 p.m. 05 min

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

Initial Blow GOOD Surge-VERY weak blow for 3 min. F DIED

Final Blow no blow - Pushed tool - GOOD Surge - no help

Total Feet Recovered 10 Gravity of Oil _____ Corrected _____

10 Feet of mud % 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 Pushed tool on 2nd opening no help - came out of the hole

no final Shut-In pressure was taken

Extra Equipment - Jars NONE Safety Joint NONE Extra Packer NONE Straddle NONE Hook Wall NONE

Top Recorder No. 11087 Clock No. 47441 Depth 4239 Cir..Sub NONE Sampler NONE

Bottom Recorder No. 906 Clock No. 47442 Depth 4242 Insurance NONE

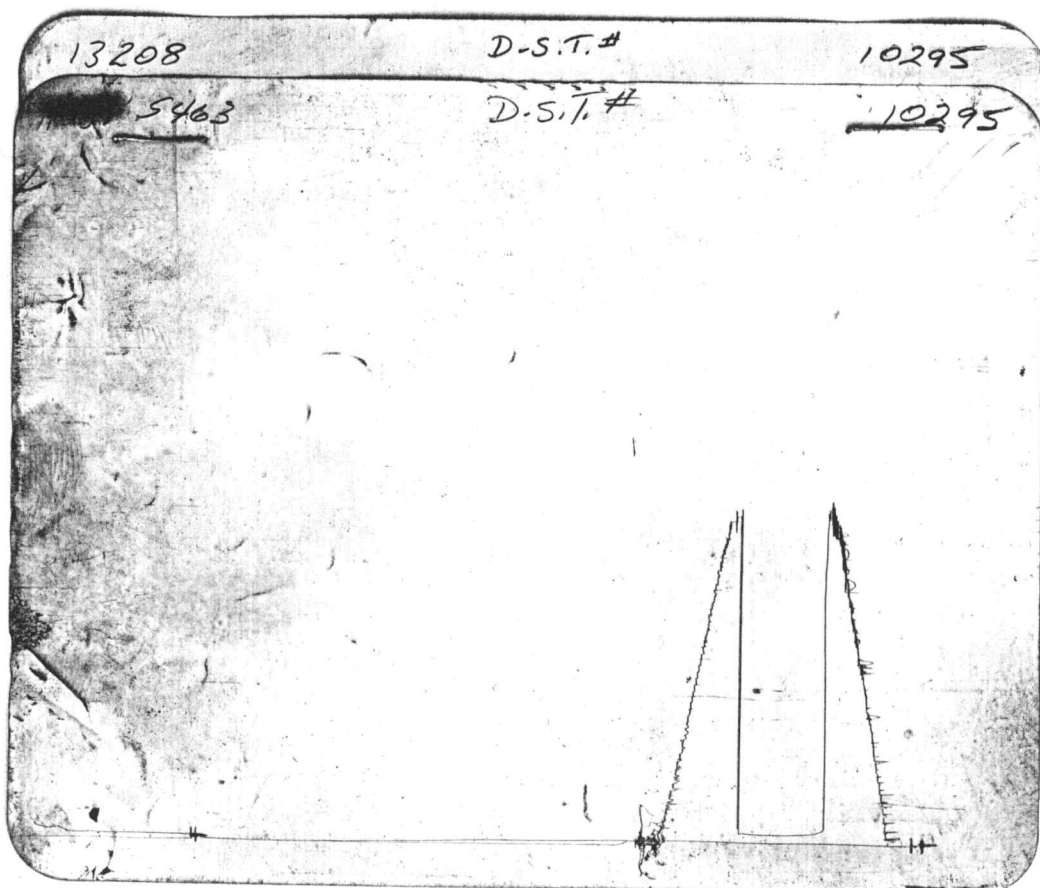
Price of Job _____

Tool Operator Hane Budig

Approved By _____

No 10295

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	1552	1540	P.S.I.
(B) First Initial Flow Pressure	45	58	P.S.I.
(C) First Final Flow Pressure	45	41	P.S.I.
(D) Initial Closed-in Pressure	45	50	P.S.I.
(E) Second Initial Flow Pressure	45	45	P.S.I.
(F) Second Final Flow Pressure	45	45	P.S.I.
(G) Final Closed-in Pressure			P.S.I.
(H) Final Hydrostatic Mud	1543	1535	P.S.I.

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : MUSTANG COMPANIES INC. WELL NAME : FROELICH #7
ADDRESS : P.O. BOX 1609, GREAT BEND LOCATION : NE-SW-NE 34-12-16
STATE & COUNTY : KANSAS, ELLIS FIELD :
ELEV. (GR) : 2037 (KB) : 2042 TEST DATE : 8-6-1988

EQUIPMENT AND HOLE DATA

FORMATION TESTED : TORONTO	DRILL PIPE LENGTH(ft) : 3187
TEST INT. KB : 3206 to 3245	DRILL PIPE O.D. (in) : 3.82
ANCHOR LENGTH(ft) : 39	WEIGHT PIPE LENGTH(ft) :
TYPE OF TEST : Conventional	WEIGHT PIPE ID : 2.75
TOTAL DEPTH(ft-kb) : 3245	DRILL COLLAR LENGTH(ft) :
MAIN HOLE SIZE(in) : 7 7/8	DRILL COLLAR I.D. (in) : 2.259
MUD WEIGHT : 9.0	TOP PACKER DEPTH(kb) : 3201
MUD VISCOSITY : 48	BOTTOM PACKER DEPTH(kb) : 3206
MUD CHLORIDES : 8000	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) : 101	TEST TICKET NUMBER : 10295

EXTRA EQUIPMENT :

ELEMENT SERIAL NO. : 11087
RANGE : 0 - 4350 CLOCK RANGE : 12 HOURS
CAL. EQU. : 1094.24 * Defl. + 5.06

SURFACE BLOW

1st Opening : GOOD SURGE-VERY WEAK BLOW FOR 3 MIN. AND DIED
2nd Opening : NO BLOW-FLUSHED TOOL-GOOD SURGE-NO HELP

RECOVERY

, Recovered 10 feet of MUD

REMARKS :

WITNESSED BY : BOB GEBHART

TOOL OPERATOR : GENE BUDIG

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : MUSTANG COMPANIES INC.
 DATE OF TEST : 8-6-1988
 DEPTH : 4239.0

WELL NAME : FROELICH #7
 LOCATION : NE-SW-NE 34-12-16
 SERIAL NO. : 11087

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			CALC	CORR	CORRECTED
TEST NO.: 1					
Depth : 4239.0 ft-kb					
-1ST HYDROSTATIC	0.0	1.400	1536.99	3.67	1540.66
-8:15 1ST FLOW	0.0	.053	63.06	-4.69	58.37
- 8:20	5.0	.051	60.87	-4.70	56.17
- 8:25	10.0	.045	54.30	-4.74	49.56
- 8:30	15.0	.043	52.11	-4.76	47.36
- 8:35	20.0	.042	51.02	-4.76	46.26
- 8:30	15.0	.042	51.02	-4.76	46.26
- 8:45	30.0	.038	46.64	-4.79	41.85
-8:45 END FLOW	0.0	.038	46.64	-4.79	41.85
- 8:50	5.0	.039	47.74	-4.79	42.95
- 8:55	10.0	.039	47.74	-4.79	42.95
- 9:00	15.0	.039	47.74	-4.79	42.95
- 9:05	20.0	.039	47.74	-4.79	42.95
- 9:10	25.0	.042	51.02	-4.76	46.26
- 9:15	30.0	.046	55.40	-4.74	50.66
-9:15 1ST SHUT-IN	0.0	.046	55.40	-4.74	50.66
-9:15 2ND FLOW	0.0	.041	49.93	-4.77	45.15
- 9:20	5.0	.041	49.93	-4.77	45.15
-9:20 END FLOW	0.0	.041	49.93	-4.77	45.15
-2ND HYDROSTATIC	0.0	1.395	1531.52	3.64	1535.16

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Date 8-7-88 Location NE-SW-NE 34-12-16 Elevation 2042 County Ellis

Company Mustang Companies Inc. Number of Copies 5

Charts Mailed to P.O. Box 16091 Great Bend Kansas 67530

Drilling Contractor Western Kansas Drilling Rig #1

Length Drill Pipe 3221 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" X.H.

Length Weight Pipe NONE I.D. Weight Pipe NONE Tool Joint Size NONE

Length Drill Collars NONE I.D. Drill Collars NONE Tool Joint Size NONE

Top Packer Depth 3235 Bottom Packer Depth 3240 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 3240 TO 3310 ANCHOR LENGTH 70 TOTAL DEPTH 3310 Hole Size 7 7/8

LEASE & WELL NO. Froelich "F" #7 FORMATION TESTED Kansas City A-B-C TEST NO. 2

Mud Weight 99 Viscosity 48 Water Loss 11.2 Chlorides - Pits 8000 D.S.T. 38

Maximum Temp. 101 °F Initial Hydrostatic Pressure (A) 1598 P.S.I. Final Hydrostatic Pressure (H) 1580 P.S.I.

Tool Open I.F.P. from 7:30 A.M. to 8:00 A.M. 30 min

Tool Closed I.C.I.P. from 8:00 A.M. to 8:45 A.M. 45 min

Tool Open F.F.P. from 8:45 A.M. to 9:45 A.M. 60 min

Tool Closed F.C.I.P. from 9:45 A.M. to 10:30 A.M. 45 min

Initial Blow Fair blow built to the bottom of a 5 gallon bucket in 15 min.

Final Blow Fair blow built to the bottom of a 5 gallon bucket in 20 min.

Total Feet Recovered 580 Gravity of Oil _____ Correct _____

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

120 Feet of oil spotted mud % Gas 3 % Oil 2 % Mud 95 % Water 0

120 Feet of oil spotted muddy water % Gas 15 % Oil 5 % Mud 35 % Water 25

90 Feet of oil spotted muddy water % Gas 15 % Oil 5 % Mud 25 % Water 55

150 Feet of oil spotted water % Gas 8 % Oil 3 % Mud 10 % Water 80

_____ 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 NONE Safety Joint NONE Extra Packer NONE Straddle NONE Hook Wall NONE

Top Recorder No. 11275463 Clock No. 47441 Depth 3304 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13208 Clock No. 47442 Depth 3307 Insurance NONE

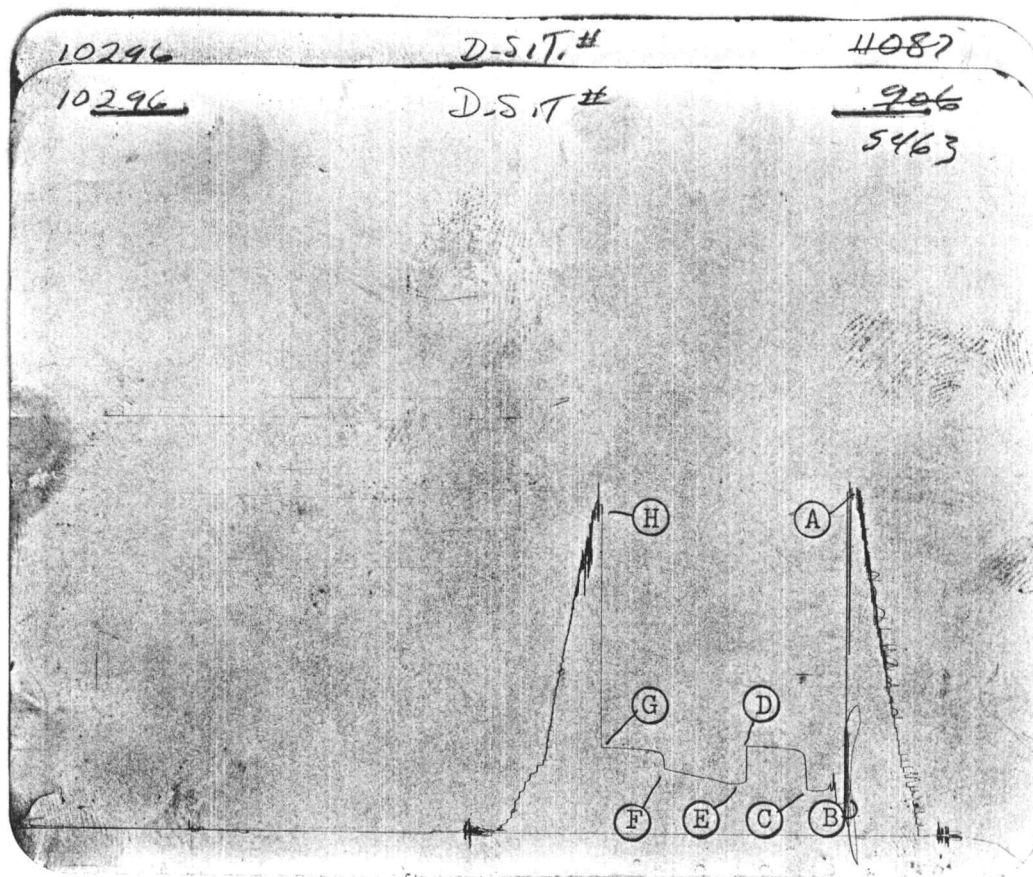
Price of Job _____

Tool Operator Gene Budig

Approved By _____

Superior Testers Enterprises, Inc. shall not be liable for damage of any kind to property or personnel of the one for whom a test is made, or for any loss suffered sustained, directly or indirectly, through the use of its equipment, or its statement 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.

No 10296



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	1598	1624	P.S.I.
(B) First Initial Flow Pressure	155	147	P.S.I.
(C) First Final Flow Pressure	210	215	P.S.I.
(D) Initial Closed-in Pressure	421	417	P.S.I.
(E) Second Initial Flow Pressure	219	237	P.S.I.
(F) Second Final Flow Pressure	302	308	P.S.I.
(G) Final Closed-in Pressure	402	407	P.S.I.
(H) Final Hydrostatic Mud	1580	1555	P.S.I.

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : MUSTANG COMPANIES INC. WELL NAME : FROELICH #7
ADDRESS : P.O. BOX 1609, GREAT BEND LOCATION : NE-SW-NE 34-12-16
STATE & COUNTY : KANSAS, ELLIS FIELD :
ELEV. (GR) : 2037 (KB) : 2042 TEST DATE : 8-7-1988

EQUIPMENT AND HOLE DATA

FORMATION TESTED : KANSAS CITY DRILL PIPE LENGTH(ft) : 3221
TEST INT. KB : 3240 to 3310 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-kb) : 3310 DRILL COLLAR LENGTH(ft) :
MAIN HOLE SIZE(in) : 7 7/8 DRILL COLLAR I.D.(in) : 2.259
MUD WEIGHT : 9.0 TOP PACKER DEPTH(kb) : 3235
MUD VISCOSITY : 48 BOTTOM PACKER DEPTH(kb) : 3240
MUD CHLORIDES : 8000 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) : 101 TEST TICKET NUMBER : 10296

EXTRA EQUIPMENT :

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

SURFACE BLOW

1st Opening : FAIR BLOW-BOTTOM OF THE BUCKET IN 15 MIN.
2nd Opening : FAIR BLOW-BOTTOM OF THE BUCKET IN 20 MIN.

RECOVERY

Recovered 100 feet of MUD
Recovered 480 feet of OIL SPOTTED MUDDY WATER

REMARKS :

PACKER DID NOT HOLD THE FIRST TIME PICKED UP SOME MUD RESET THE PACKER
PACKER FAILED AGAIN THEN SLID ABOUT 1 FOOT AND HELD

WITNESSED BY : BOB GEBHART

TOOL OPERATOR : GENE BUDIG

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : MUSTANG COMPANIES INC. WELL NAME : FROELICH #7
 DATE OF TEST : 8-7-1988 LOCATION : NE-SW-NE 34-12-16
 DEPTH : 3304.0 SERIAL NO. : 5463

COMMENTS	TIME min	DEFL in	----- CALC	PRESSURE PSIG CORR	----- CORRECTED
TEST NO.: 2					
Depth : 3304.0 ft-kb					
-1ST HYDROSTATIC	0.0	1.767	1626.83	-2.29	1624.54
-7:30 1ST FLOW	0.0	.161	145.99	1.72	147.71
- 7:36	6.0	.162	146.91	1.72	148.62
- 7:40	10.0	.229	208.69	1.40	210.09
- 7:45	15.0	.229	208.69	1.40	210.09
- 7:50	20.0	.229	208.69	1.40	210.09
- 7:55	25.0	.229	208.69	1.40	210.09
- 7:58	28.0	.235	214.22	1.38	215.60
-7:58 END FLOW	0.0	.235	214.22	1.38	215.60
- 8:01	3.0	.420	384.80	.52	385.32
- 8:04	6.0	.434	397.71	.45	398.17
- 8:07	9.0	.440	403.24	.43	403.67
- 8:10	12.0	.442	405.09	.42	405.50
- 8:13	15.0	.445	407.85	.40	408.26
- 8:16	18.0	.446	408.78	.40	409.17
- 8:19	21.0	.448	410.62	.39	411.01
- 8:22	24.0	.449	411.54	.38	411.93
- 8:25	27.0	.450	412.46	.38	412.84
- 8:28	30.0	.451	413.39	.37	413.76
- 8:31	33.0	.452	414.31	.37	414.68
- 8:34	36.0	.452	414.31	.37	414.68
- 8:37	39.0	.452	414.31	.37	414.68
- 8:40	42.0	.454	416.15	.36	416.51
- 8:43	45.0	.455	417.08	.36	417.43
-8:43 1ST SHUT-IN	0.0	.455	417.08	.36	417.43
-8:43 2ND FLOW	0.0	.259	236.35	1.27	237.61
- 8:48	5.0	.259	236.35	1.27	237.61
- 8:53	10.0	.259	236.35	1.27	237.61
- 8:58	15.0	.266	242.80	1.23	244.04
- 9:03	20.0	.275	251.10	1.19	252.29
- 9:08	25.0	.284	259.40	1.15	260.55
- 9:13	30.0	.291	265.86	1.12	266.97
- 9:18	35.0	.296	270.47	1.09	271.56
- 9:23	40.0	.304	277.84	1.06	278.90
- 9:28	45.0	.313	286.14	1.01	287.16
- 9:33	50.0	.320	292.60	.98	293.58
- 9:38	55.0	.327	299.05	.95	300.00
- 9:43	60.0	.336	307.35	.91	308.26
-9:43 END FLOW	0.0	.336	307.35	.91	308.26
- 9:46	3.0	.417	382.04	.53	382.57

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : MUSTANG COMPANIES INC.
 DATE OF TEST : 8-7-1988
 DEPTH : 3304.0

WELL NAME : FROELICH #7
 LOCATION : NE-SW-NE 34-12-16
 SERIAL NO. : 5463

COMMENTS	TIME min	DEFL in	----- CALC	PRESSURE PSIG CORR	----- CORRECTED
TEST NO.:2					
- 9:49	6.0	.423	387.57	.50	388.07
- 9:52	9.0	.428	392.18	.48	392.66
- 9:55	12.0	.431	394.95	.47	395.41
- 9:58	15.0	.433	396.79	.46	397.25
- 10:01	18.0	.436	399.56	.44	400.00
- 10:04	21.0	.437	400.48	.44	400.92
- 10:07	24.0	.437	400.48	.44	400.92
- 10:10	27.0	.439	402.32	.43	402.75
- 10:13	30.0	.440	403.24	.43	403.67
- 10:16	33.0	.441	404.17	.42	404.59
- 10:19	36.0	.441	404.17	.42	404.59
- 10:22	39.0	.442	405.09	.42	405.50
- 10:25	42.0	.442	405.09	.42	405.50
- 10:28	45.0	.444	406.93	.41	407.34
- 10:30	47.0	.444	406.93	.41	407.34
-10:30 2ND SHUT-IN	0.0	.444	406.93	.41	407.34
-2ND HYDROSTATIC	0.0	1.692	1557.68	-2.33	1555.35

CALCULATED RECOVERY ANALYSIS

DST Number:2

Test ticket number:10296

Sample #	Total Feet	***** Gas ***** %	***** Gas ***** Feet	***** Oil ***** %	***** Oil ***** Feet	***** Mud ***** %	***** Mud ***** Feet
1	100	0.00	0.00	0.00	0.00	100.00	100.00
2	120	3.00	3.60	2.00	2.40	95.00	114.00
3	120	35.00	42.00	5.00	6.00	35.00	42.00
4	90	15.00	13.50	5.00	4.50	25.00	22.50
5	150	8.00	12.00	3.00	4.50	10.00	15.00
TOTAL	580	12.26	71.10	3.00	17.40	50.60	293.50

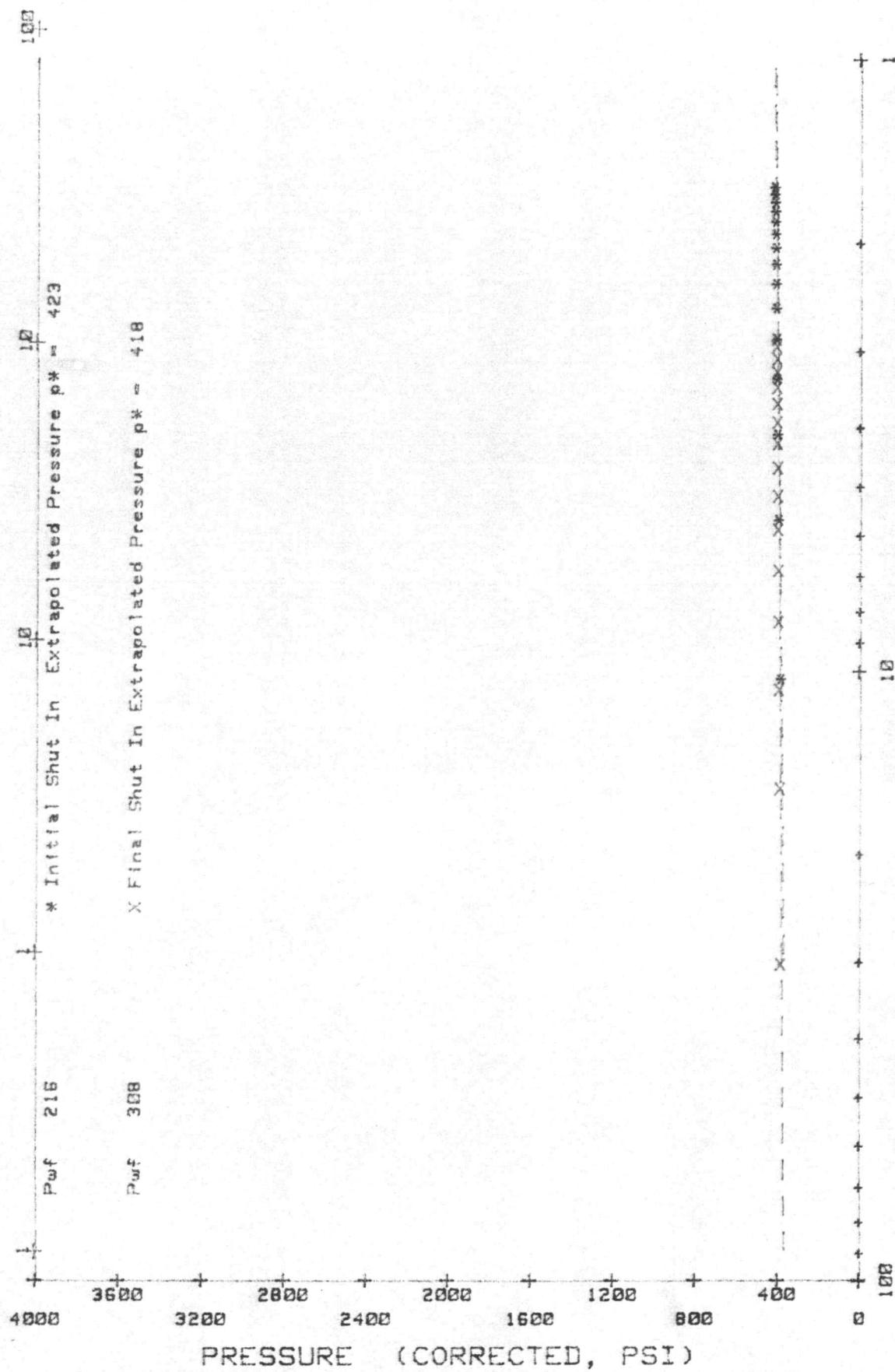
Sample #	Total Feet	**** WATER **** %	**** WATER **** Feet	Chlorides (ppm)	Resistivity (ohms)	Temperature (deg)
1	100	0.00	0.00	0.00	0.00	0.00
2	120	0.00	0.00	0.00	0.00	0.00
3	120	25.00	30.00	0.00	0.00	0.00
4	90	55.00	49.50	38000.00	0.00	0.00
5	150	80.00	120.00	38000.00	0.00	0.00
TOTAL	580	34.40	199.50			

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

LOCATION : NE-SW-NE 34-12-16

DATE : 8-7-1988

GAUGE # : 5463



TIME (MINUTES) : (T+dt)/dt -- (Semilog scale)

SUPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

COMPANY : MUSTANG COMPANIES INC.
 WELL NAME : FROELICH #7
 LOCATION : NE-SW-NE 34-12-16
 STATE & COUNTY : KANSAS, ELLIS
 DATE OF TEST : 8-7-1988
 TEST INT. KB : 3240 to 3310
 TOTAL INTERVAL (ft) K.B. : 70.00
 ELEV. (GR) : 2037 (KB) : 2042
 FIELD :

ELEMENT SERIAL NO. : 5463
 LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG
Refer. depth : 3304.0 ft-kb			
-7:58 END FLOW	0.00	0.00	215.60
	3.00	10.33	385.32
	6.00	5.67	398.17
	9.00	4.11	403.67
	12.00	3.33	405.50
	15.00	2.87	408.26
	18.00	2.56	409.17
	21.00	2.33	411.01
	24.00	2.17	411.93
	27.00	2.04	412.84
	30.00	1.93	413.76
	33.00	1.85	414.68
	36.00	1.78	414.68
	39.00	1.72	414.68
	42.00	1.67	416.51
	45.00	1.62	417.43
-8:43 1ST SHUT-IN	0.00	0.00	417.43

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

SUPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

COMPANY : MUSTANG COMPANIES INC.
 WELL NAME : FROELICH #7
 LOCATION : NE-SW-NE 34-12-16
 STATE & COUNTY : KANSAS, ELLIS
 DATE OF TEST : 8-7-1988
 TEST INT. KB : 3240 to 3310
 TOTAL INTERVAL (ft) K.B. : 70.00
 ELEV. (GR) : 2037 (KB) : 2042
 FIELD :

ELEMENT SERIAL NO. : 5463
 LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG
Refer. depth : 3304.0 ft-kb			
-9:43 END FLOW	0.00	0.00	308.26
	3.00	30.33	382.57
	6.00	15.67	388.07
	9.00	10.78	392.66
	12.00	8.33	395.41
	15.00	6.87	397.25
	18.00	5.89	400.00
	21.00	5.19	400.92
	24.00	4.67	400.92
	27.00	4.26	402.75
	30.00	3.93	403.67
	33.00	3.67	404.59
	36.00	3.44	404.59
	39.00	3.26	405.50
	42.00	3.10	405.50
	45.00	2.96	407.34
	47.00	2.87	407.34
-10:30 2ND SHUT-IN	0.00	0.00	407.34

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

SUPERIOR TESTERS ENTERPRISES INC.

DATA SUMMARY

COMPANY : MUSTANG COMPANIES INC.	WELL NAME : FROELICH #7
DATE OF TEST : 8-7-1988	LOCATION : NE-SW-NE 34-12-16
DST. NO : 2	SHUT-IN PERIOD : 1

INTERPRETIVE DATA (OIL)

EXTRAPOLATED RESERVOIR PRESSURE (psi):	423.00
Slope of Build-up Curve (psi/log cycle):	35.27
Effective Producing Time (min):	28.00

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

SUPERIOR TESTERS ENTERPRISES INC.

DATA SUMMARY

COMPANY : MUSTANG COMPANIES INC. WELL NAME : FROELICH #7
 DATE OF TEST : 8-7-1988 LOCATION : NE-SW-NE 34-12-16
 DST. NO : 2 SHUT-IN PERIOD : 2

INTERPRETIVE DATA (OIL)

TRANSMISSIBILITY

Oil (md.ft/cp): 17.53
 Gas (md.ft/cp): 0.00

EFFECTIVE PERMEABILITY

Oil (md): 1.54
 Gas (md): 0.00

TOTAL MOBILITY (md/cp): 32.49

TOTAL COMPRESSIBILITY (psi⁻¹): 6.64E-06

ESTIMATED DAMAGE RATIO:97

CALCULATED DAMAGE RATIO:84

Reservoir Temperature (F): 101.00

Formation Porosity :18

Formation Thickness (ft): 10.00

Wellbore Radius (in): 3.94

Reservoir Compressibility (psi⁻¹): 4.80E-07

Calculated Skin Factor : -1.01

PRODUCTION WITH DAMAGE REMOVED (bbl/D): 2.66

PRODUCTIVITY INDEX (bbl/psi):02

Final Flow Pressure (psi): 308.00

APPROXIMATE RADIUS OF INVESTIGATION (ft): 203.78

Total Flowing Time (min): 88.00

EXTRAPOLATED RESERVOIR PRESSURE (psi): 418.00

Slope of Build-up Curve (psi/log cycle): 24.67

Effective Producing Time (min): 88.00

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 8 8 88 Location NE SW NE 34 12-16 Elevation 2042 County Ellis

Company MUSTANG COMPANIES Number of Copies 5

Charts Mailed to PO Box 1609 Great Bend Kansas 67530

Drilling Contractor Western Kansas Drilling Co.

Length Drill Pipe 33 11 I.D. Drill Pipe 3 80 Tool Joint Size 4 1/2 x 1

Length Weight Pipe None I.D. Weight Pipe None Tool Joint Size None

Length Drill Collars None I.D. Drill Collars None Tool Joint Size None

Top Packer Depth 33 65 Bottom Packer Depth 33 70 Number of Packers Two Packer Size 6 3/4

TESTED FROM 33 76 TO 34 15 ANCHOR LENGTH 65 TOTAL DEPTH 34 35 Hole Size 7 7/8

LEASE & WELL NO. Frederick F #7 FORMATION TESTED Uns H1J TEST NO. 3

Mud Weight 9.0 Viscosity 48 Water Loss 11 Chlorides - Pits 800 D.S.T. 21,000

Maximum Temp. 112 °F Initial Hydrostatic Pressure (A) 1709 P.S.I. Final Hydrostatic Pressure (H) 1672 P.S.I.

Tool Open I.F.P. from 2 00 A.M. to 2 30 A.M. 30 min

Tool Closed I.C.I.P. from 2 30 A.M. to 3 15 A.M. 45 min

Tool Open F.F.P. from 3 15 A.M. to 3 45 A.M. 30 min

Tool Closed F.C.I.P. from 3 45 A.M. to 4 30 A.M. 45 min

Initial Blow Good Blow 65" into Bucket Decreasing slightly Died 28"

Final Blow Weak Blow off top of water Died 3"

Total Feet Recovered 186" slightly gas cut water mud Gravity of Oil _____ Corrected _____

60 Feet of slightly gas cut thin mud trace of oil 4 % Gas 1 % Oil 80 % Mud 15 % Water

60 Feet of " " " " " " 7 % Gas 1 % Oil 54 % Mud 38 % Water

60 Feet of " " " " " " 3 % Gas 1 % Oil 56 % Mud 40 % 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 Slightly Plugging in flow

Extra Equipment - Jars None Safety Joint None Extra Packer None Straddle None Hook Wall None

Top Recorder No. 5463 Clock No. 47441 Depth 34 29 Cir. Sub _____ Sampler None

Bottom Recorder No. 13208 Clock No. 47442 Depth 34 32 Insurance None

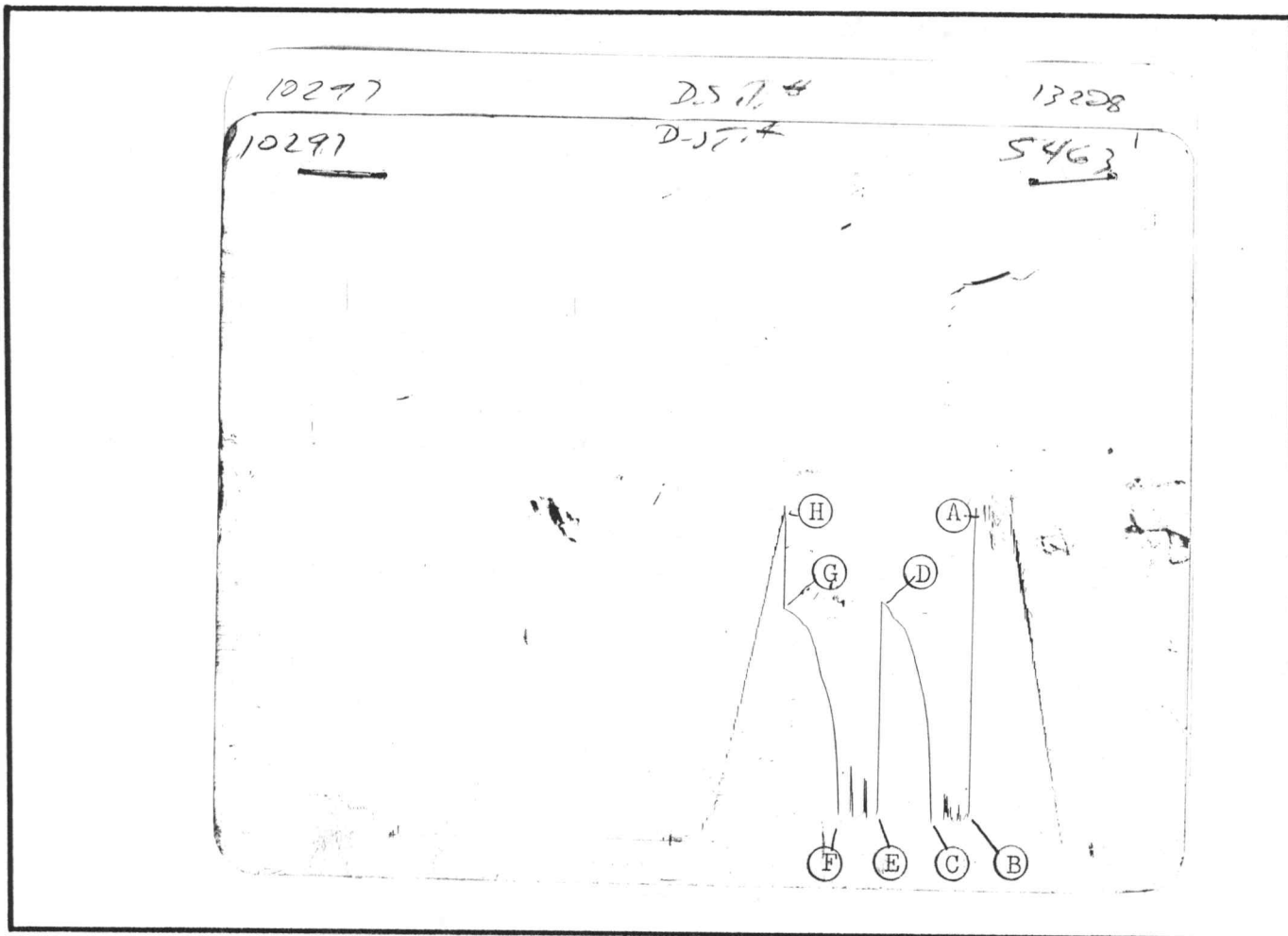
Price of Job _____

Tool Operator _____

Approved By _____

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.

NO 10297



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	1709	1669	P.S.I.
(B) First Initial Flow Pressure	109	155	P.S.I.
(C) First Final Flow Pressure	109	106	P.S.I.
(D) Initial Closed-in Pressure	1229	1220	P.S.I.
(E) Second Initial Flow Pressure	109	129	P.S.I.
(F) Second Final Flow Pressure	128	134	P.S.I.
(G) Final Closed-in Pressure	1165	1177	P.S.I.
(H) Final Hydrostatic Mud	1672	1615	P.S.I.

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : MUSTANG COMPANIES INC. WELL NAME : FROELICH #7
ADDRESS : P.O. BOX 1609, GREAT BEND LOCATION : NE-SW-NE 34-12-16
STATE & COUNTY : KANSAS, ELLIS FIELD :
ELEV. (GR) : 2037 (KB) : 2042 TEST DATE : 8-8-1988

EQUIPMENT AND HOLE DATA

FORMATION TESTED : KANSAS CITY
TEST INT. KB : 3376 to 3435
ANCHOR LENGTH(ft) : 65
TYPE OF TEST : Conventional
TOTAL DEPTH(ft-kb) : 3435
MAIN HOLE SIZE(in) : 7 7/8
MUD WEIGHT : 9.0
MUD VISCOSITY : 48
MUD CHLORIDES : 8000
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) : 112
DRILL PIPE LENGTH(ft) : 3311
DRILL PIPE O.D.(in) : 3.82
WEIGHT PIPE LENGTH(ft) :
WEIGHT PIPE ID : 2.75
DRILL COLLAR LENGTH(ft) :
DRILL COLLAR I.D.(in) : 2.259
TOP PACKER DEPTH(kb) : 3365
BOTTOM PACKER DEPTH(kb) : 3370
DUAL PACKERS :
PACKER SIZE(in) : 6 3/4
PACKER HOLD : Yes
TOOL PLUG : No
REVERSED OUT : No
TEST TICKET NUMBER : 10297

EXTRA EQUIPMENT :

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

SURFACE BLOW

1st Opening : BUILT-6 1/2 INCH IN WATER-DECREASED & DIED-28 MIN.
2nd Opening : WEAK BLOW DIED IN 3 MIN.

RECOVERY

Recovered 180 feet of SLIGHTLY OIL CUT MUDDY WATER-CHLORIDES 21000

REMARKS :

WITNESSED BY : BOB GEBHART

TOOL OPERATOR : PAT STEVENSON

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : MUSTANG COMPANIES INC.	WELL NAME : FROELICH #7
DATE OF TEST : 8-8-1988	LOCATION : NE-SW-NE 34-12-16
DEPTH : 3429.0	SERIAL NO. : 5463

COMMENTS	TIME min	DEFL in	----- CALC	PRESSURE PSIG CORR	----- CORRECTED
TEST NO.:3					
Depth : 3429.0 ft-kb					
-1ST HYDROSTATIC	0.0	1.816	1672.01	-2.27	1669.74
-2:00 1ST FLOW	0.0	.170	154.29	1.68	155.96
- 2:05	5.0	.133	120.17	1.85	122.02
- 2:10	10.0	.128	115.56	1.87	117.43
- 2:15	15.0	.148	134.00	1.78	135.78
- 2:20	20.0	.131	118.32	1.86	120.18
- 2:25	25.0	.120	108.18	1.91	110.09
- 2:29	29.0	.116	104.49	1.93	106.42
-2:29 END FLOW	0.0	.116	104.49	1.93	106.42
- 2:34	5.0	.700	642.98	-.78	642.20
- 2:39	10.0	.888	816.33	-1.65	814.68
- 2:44	15.0	1.020	938.04	-2.27	935.78
- 2:49	20.0	1.132	1041.32	-2.57	1038.75
- 2:54	25.0	1.198	1102.17	-2.54	1099.63
- 2:59	30.0	1.233	1134.45	-2.53	1131.92
- 3:04	35.0	1.280	1177.78	-2.51	1175.28
- 3:09	40.0	1.322	1216.51	-2.49	1214.02
- 3:11	42.0	1.328	1222.04	-2.49	1219.56
- 2:29	0.0	1.328	1222.04	-2.49	1219.56
-3:11 1ST SHUT-IN	0.0	1.329	1222.96	-2.48	1220.48
-3:11 2ND FLOW	0.0	.141	127.55	1.81	129.36
- 3:16	5.0	.138	124.78	1.83	126.61
- 3:21	10.0	.136	122.93	1.84	124.77
- 3:26	15.0	.140	126.62	1.82	128.44
- 3:31	20.0	.142	128.47	1.81	130.28
- 3:36	25.0	.142	128.47	1.81	130.28
- 3:41	30.0	.147	133.08	1.78	134.86
-3:41 END FLOW	0.0	.147	133.08	1.78	134.86
- 3:46	5.0	.645	592.27	-.53	591.74
- 3:51	10.0	.811	745.33	-1.30	744.04
- 3:56	15.0	.909	835.70	-1.75	833.94
- 4:01	20.0	1.049	964.78	-2.40	962.39
- 4:06	25.0	1.154	1061.60	-2.56	1059.04
- 4:11	30.0	1.196	1100.33	-2.54	1097.79
- 4:16	35.0	1.233	1134.45	-2.53	1131.92
- 4:21	40.0	1.259	1158.42	-2.52	1155.90
- 4:26	45.0	1.281	1178.71	-2.51	1176.20
-4:26 2ND SHUT-IN	0.0	1.282	1179.63	-2.51	1177.12
-2ND HYDROSTATIC	0.0	1.757	1617.61	-2.30	1615.31

Superior Testers Enterprises, Inc.

R.R. 3, Box 295B, Great Bend, Kansas 67530
(316) 792-6902

Date 8 8 88 Location NE SW-NE 34 12-16 Elevation 2042 County Ellis

Company MUSTANG COMPANIES INC Number of Copies

Charts Mailed to PO Box 1609 Great Bend KS 67530

Drilling Contractor WESTERN KANSAS DRILLING

Length Drill Pipe 3403 I.D. Drill Pipe 380 Tool Joint Size 4 3/4

Length Weight Pipe NONE I.D. Weight Pipe NONE Tool Joint Size NONE

Length Drill Collars NONE I.D. Drill Collars NONE Tool Joint Size NONE

Top Packer Depth 3486 Bottom Packer Depth 3491 Number of Packers Two Packer Size 6 3/4

TESTED FROM 3491 TO 3514 ANCHOR LENGTH 27 TOTAL DEPTH 3514 Hole Size 7

LEASE & WELL NO. Fredrick "F" 1 FORMATION TESTED Arbuckle TEST NO.

Mud Weight 9.5 Viscosity 47 Water Loss 15.2 Chlorides - Pits 68000 D.S.T.

Maximum Temp. 104 °F Initial Hydrostatic Pressure (A) 1783 P.S.I. Final Hydrostatic Pressure (H) 1746

Tool Open I.F.P. from 630 m to 700 m 30 min

Tool Closed I.C.I.P. from 700 m to 745 m 45 min

Tool Open F.F.P. from 745 m to 800 m 15 min

Tool Closed F.C.I.P. from 800 m to 830 m 30 min

Initial Blow Weak Blow off Top of water Died 264

Final Blow NO BLOW Flush Tool wear intermittent blow 24 Died

Total Feet Recovered 25' oil cut mud 1' clean oil on top Gravity of Oil

25' Feet of oil cut mud Show clean oil % Gas 15 % Oil 85 % Mud

on top 1FT Feet of % Gas % Oil % Mud

Feet of % Gas % Oil % Mud

Feet of % Gas % Oil % Mud

Feet of % Gas % Oil % Mud

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Feet of % Gas % Oil % Mud

Feet of % Gas % Oil % Mud

Extra Equipment - Jam Safety Joint Extra Packer Straddle Hook Wall

Top Recorder No. 5463 Clock No. 47471 Depth 3513 Cir. Sub Sampler

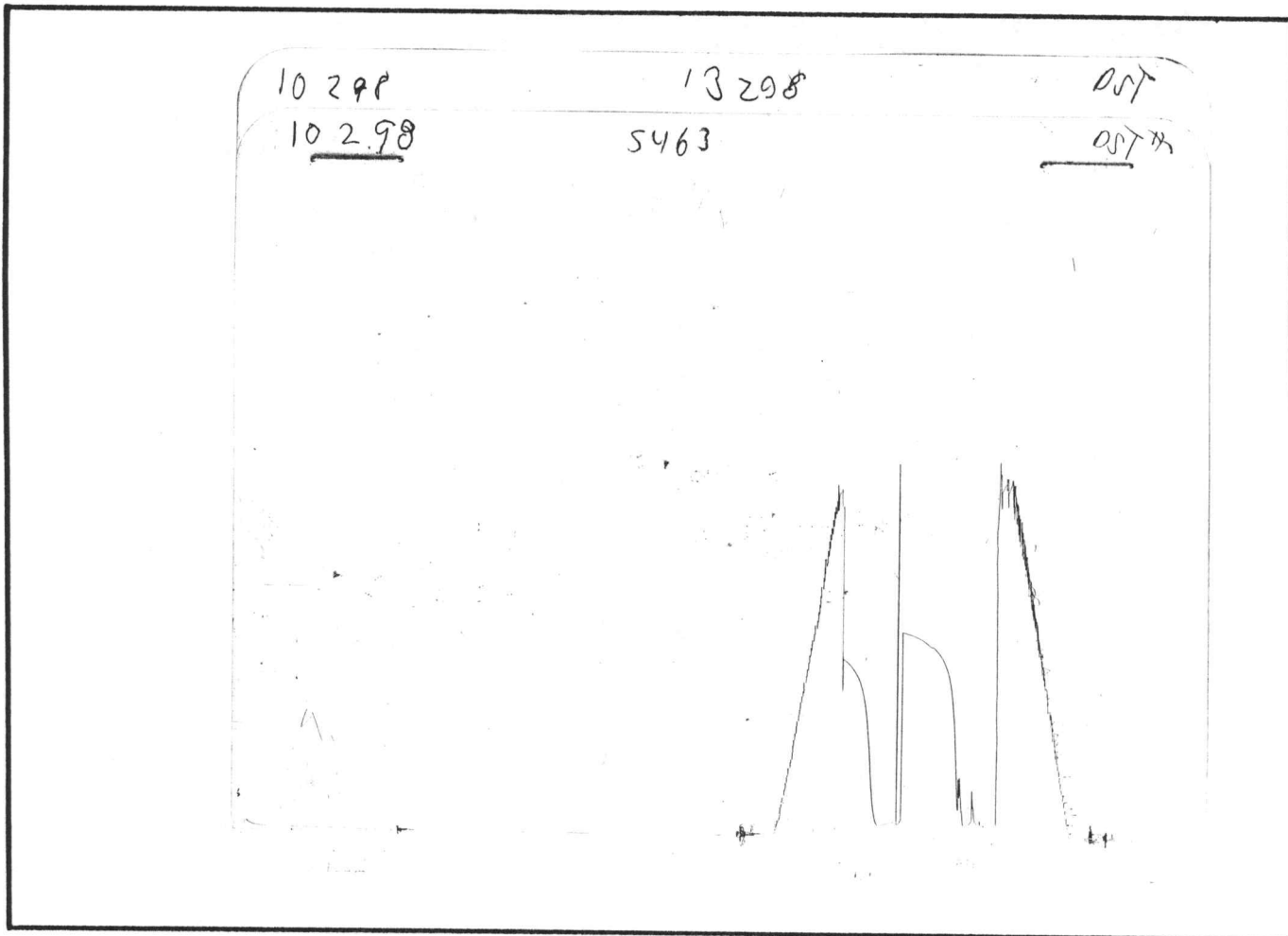
Bottom Recorder No. 0208 Clock No. 47472 Depth 3509 Insurance

Price of Job

Tool Operator Pat Shan

Approved By

Superior Testers Enterprises, Inc. shall not be liable for damage of any property or personnel of the one for whom a test is made, or for any loss sustained, directly or indirectly, through the use of its equipment, or its opinion concerning the results of any test. Tools lost or damaged in the test 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	1783	1741	P.S.I.
(B) First Initial Flow Pressure	54	61	P.S.I.
(C) First Final Flow Pressure	54	141	P.S.I.
(D) Initial Closed-in Pressure	1027	1024	P.S.I.
(E) Second Initial Flow Pressure	54	70	P.S.I.
(F) Second Final Flow Pressure	54	63	P.S.I.
(G) Final Closed-in Pressure	880	888	P.S.I.
(H) Final Hydrostatic Mud	1746	1701	P.S.I.

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : MUSTANG COMPANIES INC. WELL NAME : FROELICH #7
ADDRESS : P.O. BOX 1609, GREAT BEND LOCATION : NE-SW-NE 34-12-16
STATE & COUNTY : KANSAS, ELLIS FIELD :
ELEV. (GR) : 2037 (KB) : 2042 TEST DATE : 8-8-1988

EQUIPMENT AND HOLE DATA

FORMATION TESTED : ARBUCKLE	DRILL PIPE LENGTH(ft) : 3403
TEST INT. KB : 3491 to 3518	DRILL PIPE O.D.(in) : 3.82
ANCHOR LENGTH(ft) : 27	WEIGHT PIPE LENGTH(ft) :
TYPE OF TEST : Conventional	WEIGHT PIPE ID : 2.75
TOTAL DEPTH(ft-kb) : 3518	DRILL COLLAR LENGTH(ft) :
MAIN HOLE SIZE(in) : 7 7/8	DRILL COLLAR I.D.(in) : 2.259
MUD WEIGHT : 9.5	TOP PACKER DEPTH(kb) : 3486
MUD VISCOSITY : 47	BOTTOM PACKER DEPTH(kb) : 3491
MUD CHLORIDES : 68000	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) : 104	TEST TICKET NUMBER : 10298

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 26 MIN.
2nd Opening : NO BLOW-FLUSHED TOOL-WEAK BLOW FOR 2 MIN. AND DIED

RECOVERY

Recovered 1 feet of CLEAN OIL ON TOP
Recovered 25 feet of OIL CUT MUD 15% OIL-85% MUD

REMARKS :

WITNESSED BY : BOB GEBHART

TOOL OPERATOR : PAT STEVENSON

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : MUSTANG COMPANIES INC.
 DATE OF TEST : 8-8-1988
 DEPTH : 3512.0

WELL NAME : FROELICH #7
 LOCATION : NE-SW-NE 34-12-16
 SERIAL NO. : 5463

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO.: 4					
Depth : 3512.0 ft-kb					
-1ST HYDROSTATIC	0.0	1.894	1743.93	-2.24	1741.70
-6:30 1ST FLOW	0.0	.067	59.31	2.16	61.47
- 6:35	5.0	.067	59.31	2.16	61.47
- 6:40	10.0	.070	62.08	2.14	64.22
- 6:45	15.0	.080	71.30	2.10	73.39
- 6:50	20.0	.073	64.84	2.13	66.97
- 6:55	25.0	.071	63.00	2.14	65.14
- 7:00	30.0	.154	139.53	1.75	141.28
-7:00 END FLOW	0.0	.154	139.53	1.75	141.28
- 7:05	5.0	.797	732.42	-1.23	731.19
- 7:10	10.0	.941	865.20	-1.90	863.30
- 7:15	15.0	1.005	924.21	-2.20	922.02
- 7:20	20.0	1.039	955.56	-2.35	953.21
- 7:25	25.0	1.063	977.69	-2.46	975.23
- 7:30	30.0	1.085	997.98	-2.57	995.41
- 7:35	35.0	1.100	1011.81	-2.59	1009.23
- 7:40	40.0	1.111	1021.95	-2.58	1019.37
- 7:44	44.0	1.117	1027.49	-2.58	1024.91
-7:44 1ST SHUT-IN	0.0	1.117	1027.49	-2.58	1024.91
-2ND FLOW	0.0	.077	68.53	2.11	70.64
- 7:49	5.0	.077	68.53	2.11	70.64
- 7:54	10.0	.077	68.53	2.11	70.64
- 7:59	15.0	.070	62.08	2.14	64.22
- 8:03	19.0	.069	61.16	2.15	63.30
-8:03 END FLOW	0.0	.069	61.16	2.15	63.30
- 8:08	5.0	.374	342.39	.73	343.12
- 8:13	10.0	.756	694.62	-1.04	693.58
- 8:18	15.0	.874	803.42	-1.59	801.83
- 8:23	20.0	.929	854.14	-1.84	852.29
- 8:28	25.0	.962	884.56	-2.00	882.57
- 8:30	27.0	.969	891.02	-2.03	888.99
-8:30 2ND SHUTIN	0.0	.969	891.02	-2.03	888.99
-2ND HYDROSTATIC	0.0	1.850	1703.36	-2.26	1701.11