

Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 9-3-93 Location S/2 S/2 SW 30-24-14^W Elevation 1998^{KR} County STAFFORD

Company N.P.R. INC Number of Copies 5

Charts Mailed to 250^N ROCK Rd. 340 WICHITA KR 67206

Drilling Contractor Emphasar Oil Operation

Length Drill Pipe 3603 I.D. Drill Pipe 380 Tool Joint Size 4 1/2 x 4

Length Weight Pipe 222 I.D. Weight Pipe 2.75 Tool Joint Size 4 1/2 x 4

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

Top Packer Depth 3847 Bottom Packer Depth 3852 Number of Packers Two Packer Size 6 3/4

TESTED FROM 3852 TO 3942 ANCHOR LENGTH 90 TOTAL DEPTH 3942 Hole Size 7 7/8

LEASE & WELL NO. HYTER 2 FORMATION TESTED L+KC TEST NO. 1

Mud Weight 9.7 Viscosity 41 Water Loss 12.6 Chlorides - Pits 85000 D.S.T. _____

Maximum Temp. 108 °F Initial Hydrostatic Pressure (A) 2052 P.S.I. Final Hydrostatic Pressure (H) 2031 P.S.I.

Tool Open I.F.P. from 500 m to 530 m 30 min

Tool Closed I.C.I.P. from 530 m to 600 m 30 min

Tool Open F.F.P. from 600 m to 630 m 30 min

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

Initial Blow WEAK Blow Building slowly 1/4" into water

Final Blow WEAK Blow off top Building slowly 1/4" into water

Total Feet Recovered 70' Drilling mud slight show of oil in Tool Gravity of Oil _____ Corrected _____

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

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

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

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____ 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 yes Safety Joint yes Extra Packer none Straddle none Hook Wall none

Top Recorder No. 13561 Clock No. 12571 Depth 3936 Cir. Sub none Sampler none

Bottom Recorder No. 3815 Clock No. 23876 Depth 3935 Insurance MA

Price of Job _____

Tool Operator PAT STEVENSON

Approved By _____

No 12120

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, of 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.

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : NATIONAL PETROLEUM RES. WELL NAME : HYTER #2
ADDRESS : 250 N. ROCK ROAD, WICHITA LOCATION : S/2-S/2-SW 30-24S-14W
STATE & COUNTY : KANSAS, STAFFORD FIELD :
ELEV. (GR) : 1993 (KB) : 1998 TEST DATE : 9-3-1993

EQUIPMENT AND HOLE DATA

FORMATION TESTED : LANSING DRILL PIPE LENGTH(ft) : 3603
TEST INT. KB : 3852 to 3942 DRILL PIPE O.D. (in) : 3.82
ANCHOR LENGTH(ft) : 90 WEIGHT PIPE LENGTH(ft) : 222
TYPE OF TEST : Conventional WEIGHT PIPE ID : 2.75
TOTAL DEPTH(ft-kb) : 3942 DRILL COLLAR LENGTH(ft) : 303
MAIN HOLE SIZE(in) : 7 7/8 DRILL COLLAR I.D. (in) : 2.259
MUD WEIGHT : 9.7 TOP PACKER DEPTH(kb) : 3847
MUD VISCOSITY : 41 BOTTOM PACKER DEPTH(kb) : 3852
MUD CHLORIDES : 85000 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) : 108 TEST TICKET NUMBER : 12120

EXTRA EQUIPMENT : -JARS -SAFETY JOINT

ELEMENT SERIAL NO. : 13561
RANGE : 0 - 4175 CLOCK RANGE : 12 HOURS
CAL. EQU. : 1048.18 * Defl. + .46

SURFACE BLOW

1st Opening : WEAK BLOW BUILT TO 1 1/4 INCHES INTO THE WATER
2nd Opening : WEAK BLOW BUILT TO 1/4 INCH INTO THE WATER

RECOVERY

Recovered 70 feet of DRILLING MUD WITH A SLIGHT SHOW OF OIL

REMARKS :

WITNESSED BY : CRAIG CAULK

TOOL OPERATOR : PAT STEVENSON

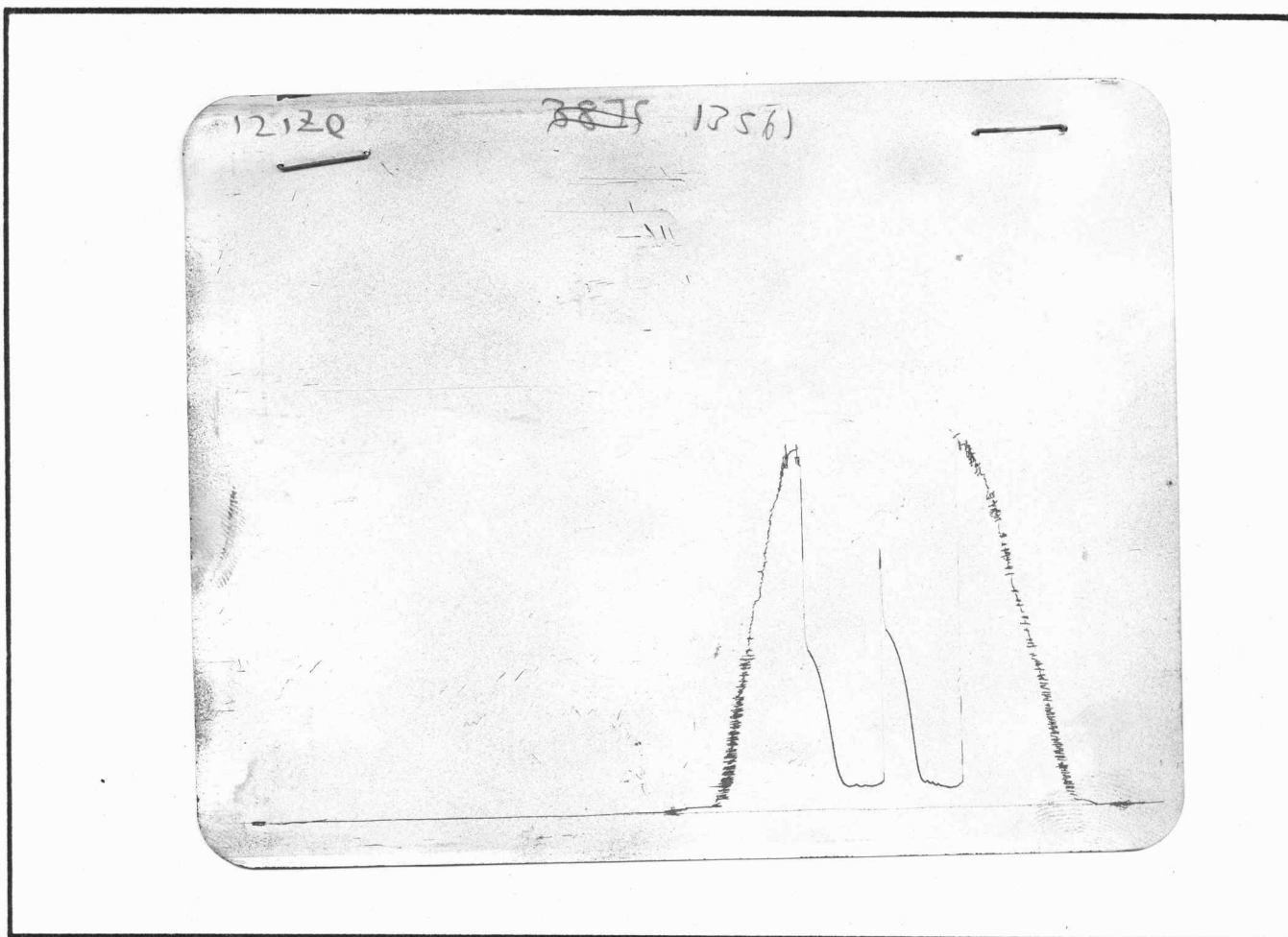
INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : NATIONAL PETROLEUM RES. WELL NAME : HYTER #2
 DATE OF TEST : 9-3-1993 LOCATION : S/2-S/2-SW 30-24S-14W
 DEPTH : 3936.0 SERIAL NO. : 13561

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			CALC	CORR	CORRECTED
TEST NO.:1					
Depth : 3936.0 ft-kb					
-1ST HYDROSTATIC	0.0	1.960	2054.89	-2.26	2052.63
-5:00 1ST FLOW	0.0	.110	115.76	-.22	115.55
- 5:05	5.0	.110	115.76	-.22	115.55
- 5:10	10.0	.113	118.91	-.21	118.70
- 5:15	15.0	.117	123.10	-.20	122.90
- 5:20	20.0	.128	134.63	-.18	134.45
- 5:25	25.0	.138	145.11	-.15	144.96
- 5:30	30.0	.146	153.50	-.14	153.36
-5:30 END FLOW	0.0	.146	153.50	-.14	153.36
- 5:35	5.0	.221	232.11	.03	232.14
- 5:40	10.0	.538	564.38	.74	565.13
- 5:45	15.0	.758	794.98	1.24	796.22
- 5:50	20.0	.884	927.05	1.52	928.57
- 5:55	25.0	.954	1000.42	1.66	1002.09
- 6:00	30.0	.981	1028.72	1.55	1030.27
-6:00 1ST SHUT-IN	0.0	.980	1027.68	1.55	1029.23
-6:00 2ND FLOW	0.0	.125	131.48	-.18	131.30
- 6:05	5.0	.126	132.53	-.18	132.35
- 6:10	10.0	.126	132.53	-.18	132.35
- 6:15	15.0	.126	132.53	-.18	132.35
- 6:20	20.0	.127	133.58	-.18	133.40
- 6:25	25.0	.126	132.53	-.18	132.35
- 6:30	30.0	.128	134.63	-.18	134.45
-6:30 END FLOW	0.0	.128	134.63	-.18	134.45
- 6:35	5.0	.149	156.64	-.13	156.51
- 6:40	10.0	.254	266.70	.11	266.81
- 6:45	15.0	.494	518.26	.65	518.91
- 6:50	20.0	.699	733.14	1.11	734.24
- 6:55	25.0	.809	848.44	1.35	849.79
- 7:00	30.0	.870	912.38	1.49	913.87
-7:00 2ND SHUT-IN	0.0	.870	912.38	1.49	913.87
- 7:00	0.0	1.940	2033.93	-2.35	2031.58
-2ND HYDROSTATIC	0.0	1.940	2033.93	-2.35	2031.58



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	<u>2052</u>	<u>2052</u>	P.S.I.
(B) First Initial Flow Pressure	<u>105</u>	<u>115</u>	P.S.I.
(C) First Final Flow Pressure	<u>168</u>	<u>153</u>	P.S.I.
(D) Initial Closed-in Pressure	<u>1029</u>	<u>1029</u>	P.S.I.
(E) Second Initial Flow Pressure	<u>168</u>	<u>131</u>	P.S.I.
(F) Second Final Flow Pressure	<u>168</u>	<u>134</u>	P.S.I.
(G) Final Closed-in Pressure	<u>892</u>	<u>913</u>	P.S.I.
(H) Final Hydrostatic Mud	<u>2031</u>	<u>2031</u>	P.S.I.

Superior Testers Enterprises, Inc.

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

Date 9 5 93 Location 36-24⁵-14^W Elevation 1998^{KD} County STAFFORD
Company N P R INC Charts Mailed to 250^N ROCK Rd. #340 WICHITA KS Number of Copies 5

Drilling Contractor Empharac
Length Drill Pipe _____ I.D. Drill Pipe 260 Tool Joint Size 4 1/2 x 4
Length Weight Pipe 189 I.D. Weight Pipe 277 Tool Joint Size 4 1/2 x 4
Length Drill Collars none I.D. Drill Collars none Tool Joint Size none

Top Packer Depth 4150 Bottom Packer Depth 4155 Number of Packers Two Packer Size 6 3/4
TESTED FROM 4155 TO 4280 ANCHOR LENGTH 125 TOTAL DEPTH 4280 Hole Size 7 7/8

LEASE & WELL NO. HYTER 2 FORMATION TESTED VIRLA TEST NO. 2
Mud Weight 10 Viscosity 49 Water Loss 12 Chlorides - Pits 70,000 D.S.T. -

Maximum Temp. _____ °F Initial Hydrostatic Pressure (A) 2324 P.S.I. Final Hydrostatic Pressure (H) 2303 P.S.I.

Tool Open I.F.P. from 930 m to 1000 m 30 min
Tool Closed I.C.I.P. from 1030 m to 1100 m 30 min
Tool Open F.F.P. from 1100 m to 1145 m 45 min
Tool Closed F.C.I.P. from 1145 m to 1245 m 60 min

from [B]	<u>136</u>	P.S.I. to [C]	<u>126</u>	P.S.I.
[D]	<u>147</u>			P.S.I.
from [E]	<u>126</u>	P.S.I. to [F]	<u>126</u>	P.S.I.
[G]	<u>147</u>			P.S.I.

Initial Blow Strong Blow off Bottom Decreasing slightly
Final Blow Fair Blow Building slowly 4 1/2" into water

Total Feet Recovered 1000' GAS IN PIPE 90' OIL & GAS CUT MUD
30 Feet of slightly GAS & oil CUT MUD Gravity of Oil _____ Corrected _____
60 Feet of _____

Feet of _____	<u>5</u> % Gas	<u>10</u> % Oil	<u>85</u> % Mud	_____ % Water
Feet of _____	<u>27</u> % Gas	<u>18</u> % Oil	<u>55</u> % 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 yes Safety Joint yes Extra Packer none Straddle none Hook Wall none
Top Recorder No. 17561 Clock No. 13056 Depth 4274 Cir. Sub _____ Sampler none
Bottom Recorder No. 3875 Clock No. 23937 Depth 4277 Insurance N/A

Price of Job _____
Tool Operator PAT STEVENSON

Approved By NO 12121

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.

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : NATIONAL PETROLEUM RES. WELL NAME : HYTER #2
ADDRESS : 250 N. ROCK ROAD, WICHITA LOCATION : S/2-S/2-SW 30-24S-14W
STATE & COUNTY : KANSAS, STAFFORD FIELD :
ELEV. (GR) : 1993 (KB) : 1998 TEST DATE : 9-5-1993

EQUIPMENT AND HOLE DATA

FORMATION TESTED : VIOLA DRILL PIPE LENGTH(ft) : 3603
TEST INT. KB : 4155 to 4280 DRILL PIPE O.D.(in) : 3.82
ANCHOR LENGTH(ft) : 125 WEIGHT PIPE LENGTH(ft) : 189
TYPE OF TEST : Conventional WEIGHT PIPE ID : 2.75
TOTAL DEPTH(ft-kg) : 4280 DRILL COLLAR LENGTH(ft) : -
MAIN HOLE SIZE(in) : 7 7/8 DRILL COLLAR I.D.(in) : 2.259
MUD WEIGHT : 10 TOP PACKER DEPTH(kb) : 4150
MUD VISCOSITY : 49 BOTTOM PACKER DEPTH(kb) : 4280
MUD CHLORIDES : 70000 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) : 0 TEST TICKET NUMBER : 12121

EXTRA EQUIPMENT : -JARS -SAFETY JOINT

ELEMENT SERIAL NO. : 13561
RANGE : 0 - 4175 CLOCK RANGE : 12 HOURS
CAL. EQU. : 1048.18 * Defl. + .46

SURFACE BLOW

1st Opening : STRONG BLOW
2nd Opening : FAIR BLOW BOTTOM OF THE BUCKET IN 4 1/2 MIN.

RECOVERY

Recovered 1000 feet of GAS IN THE PIPE
Recovered 90 feet of SLIGHTLY GAS AND OIL CUT MUD

REMARKS :

WITNESSED BY : CRAIG CAULK

TOOL OPERATOR : PAT STEVENSON

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : NATIONAL PETROLEUM RES. WELL NAME : HYTER #2
 DATE OF TEST : 9-5-1993 LOCATION : S/2-S/2-SW 30-24S-14W
 DEPTH : 4274.0 SERIAL NO. : 13561

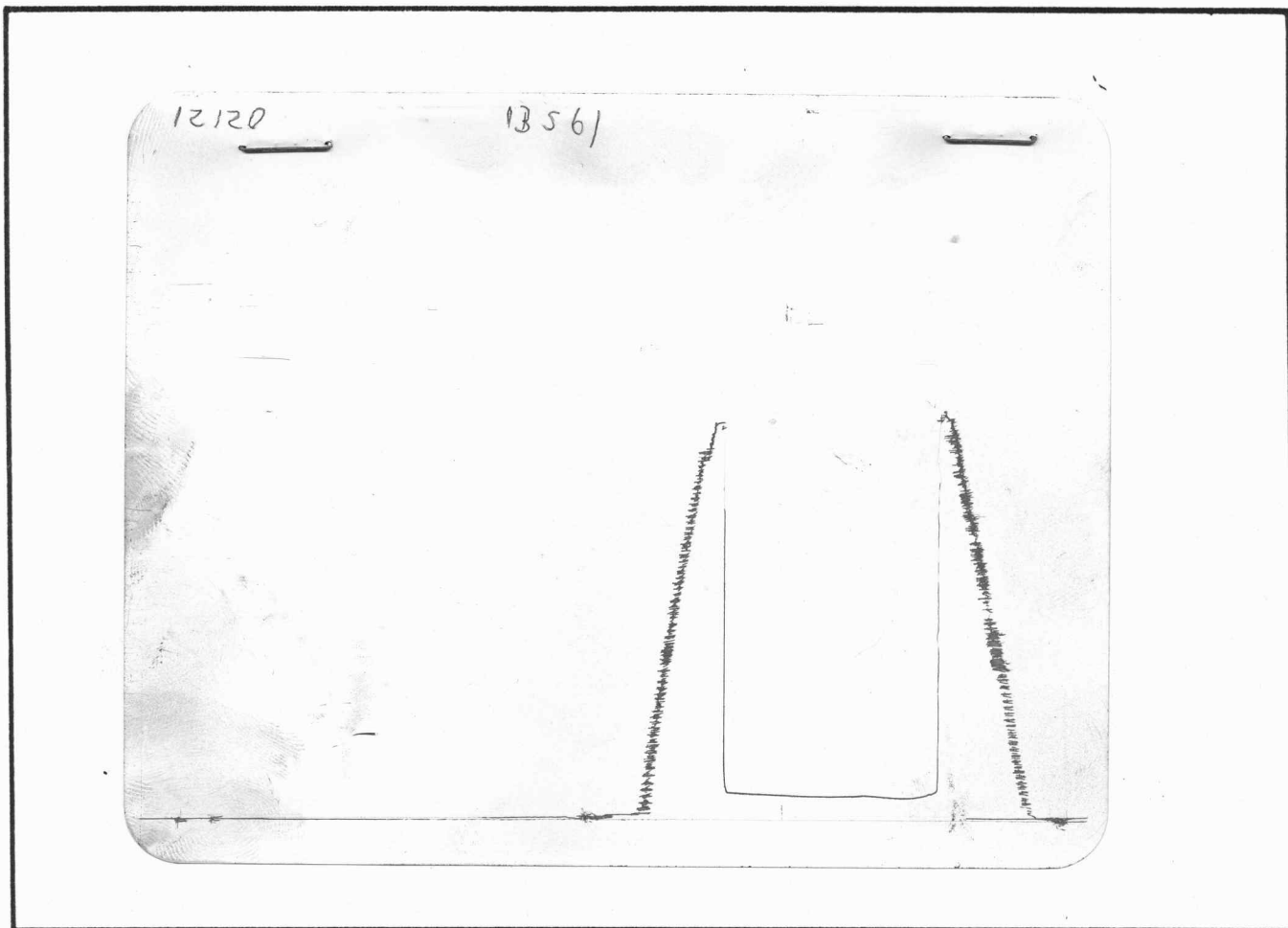
COMMENTS	TIME min	DEFL in	----- PRESSURE PSIG -----		
			CALC	CORR	CORRECTED
TEST NO.:2					
Depth : 4274.0 ft-kb					
-1ST HYDROSTATIC	0.0	2.185	2290.73	-1.26	2289.47
-9:30 1ST FLOW	0.0	.147	154.54	-.13	154.41
- 9:35	5.0	.146	153.50	-.14	153.36
- 9:40	10.0	.133	139.87	-.16	139.71
- 9:45	15.0	.130	136.73	-.17	136.55
- 9:50	20.0	.122	128.34	-.19	128.15
- 9:55	25.0	.123	129.39	-.19	129.20
- 10:00	30.0	.123	129.39	-.19	129.20
-10:00 END FLOW	0.0	.123	129.39	-.19	129.20
- 10:05	5.0	.124	130.44	-.18	130.25
- 10:10	10.0	.125	131.48	-.18	131.30
- 10:15	15.0	.128	134.63	-.18	134.45
- 10:20	20.0	.130	136.73	-.17	136.55
- 10:25	25.0	.131	137.77	-.17	137.61
- 10:30	30.0	.136	143.01	-.16	142.86
-10:30 1ST SHUT-IN	0.0	.136	143.01	-.16	142.86
-10:30 2ND FLOW	0.0	.126	132.53	-.18	132.35
- 10:35	5.0	.126	132.53	-.18	132.35
- 10:40	10.0	.126	132.53	-.18	132.35
- 10:45	15.0	.126	132.53	-.18	132.35
- 10:50	20.0	.126	132.53	-.18	132.35
- 10:55	25.0	.126	132.53	-.18	132.35
- 11:00	30.0	.126	132.53	-.18	132.35
- 11:05	35.0	.126	132.53	-.18	132.35
- 11:10	40.0	.126	132.53	-.18	132.35
- 11:15	45.0	.126	132.53	-.18	132.35
- 10:30	0.0	.126	132.53	-.18	132.35
- 10:35	5.0	.126	132.53	-.18	132.35
- 10:40	10.0	.126	132.53	-.18	132.35
- 10:45	15.0	.126	132.53	-.18	132.35
- 10:49	19.0	.126	132.53	-.18	132.35
- 10:55	25.0	.131	137.77	-.17	137.61
- 11:00	30.0	.134	140.92	-.16	140.76
- 11:05	35.0	.136	143.01	-.16	142.86
- 11:10	40.0	.136	143.01	-.16	142.86
- 11:15	45.0	.137	144.06	-.16	143.91
- 11:20	50.0	.137	144.06	-.16	143.91
- 11:25	55.0	.141	148.26	-.15	148.11
- 11:30	60.0	.142	149.30	-.14	149.16
-12:45 2ND SHUT-IN	0.0	.142	149.30	-.14	149.16

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : NATIONAL PETROLEUM RES. WELL NAME : HYTER #2
DATE OF TEST : 9-5-1993 LOCATION : S/2-S/2-SW 30-24S-14W
DEPTH : 4274.0 SERIAL NO. : 13561

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO.:2					
-2ND HYDROSTATIC	0.0	2.154	2258.24	-1.39	2256.84



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	<u>2324</u>	<u>2289</u>	P.S.I.
(B) First Initial Flow Pressure	<u>136</u>	<u>154</u>	P.S.I.
(C) First Final Flow Pressure	<u>126</u>	<u>129</u>	P.S.I.
(D) Initial Closed-in Pressure	<u>147</u>	<u>142</u>	P.S.I.
(E) Second Initial Flow Pressure	<u>126</u>	<u>132</u>	P.S.I.
(F) Second Final Flow Pressure	<u>126</u>	<u>132</u>	P.S.I.
(G) Final Closed-in Pressure	<u>147</u>	<u>149</u>	P.S.I.
(H) Final Hydrostatic Mud	<u>2303</u>	<u>2256</u>	P.S.I.