

Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 8-8-1991 Location C-512-SW-SW 9-10⁵31^W Elevation 3026 K.L. County Thomas

Company National Petroleum RESERVES INC. Number of Copies 5

Charts Mailed to 250 North Rock Road Suite 340 Wichita Kansas 67206

Drilling Contractor EMPHASIS OIL OPERATIONS RIG #1

Length Drill Pipe 4106 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 4128 Bottom Packer Depth 4133 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 4133 TO 4157 ANCHOR LENGTH 24 TOTAL DEPTH 4157 Hole Size 7 7/8"

LEASE & WELL NO. Robben #1 FORMATION TESTED KANSAS CITY TEST NO. 1

Mud Weight 9.9 Viscosity 48 Water Loss 8.4 Chlorides - Pits 4000 D.S.T. 87000

Maximum Temp. 116 °F Initial Hydrostatic Pressure (A) 2092 P.S.I. Final Hydrostatic Pressure (H) 2056 P.S.I.

Tool Open I.F.P. from 2:45 A.m. to 3:15 A.m. 30 min

Tool Closed I.C.I.P. from 3:15 A.m. to 3:45 A.m. 30 min

Tool Open F.F.P. from 3:45 A.m. to 4:15 A.m. 30 min

Tool Closed F.C.I.P. from 4:15 A.m. to 4:45 A.m. 30 min

Initial Blow WEAK building blow built to 10 inches into the water

Final Blow WEAK building blow built to 7 1/2 inches into the water

Total Feet Recovered 225 Gravity of Oil _____ Corrected

105 Feet of Slightly muddy water with a trace of oil % Gas 1 % Oil 12 % Mud 87 % Water

120 Feet of Very Slightly muddy water with a trace of % Gas 1 % Oil 5 % Mud 94 % Water

_____ Feet of oil % 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. 906 Clock No. 47441 Depth 4151 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13561 Clock No. 47442 Depth 4154 Insurance NONE

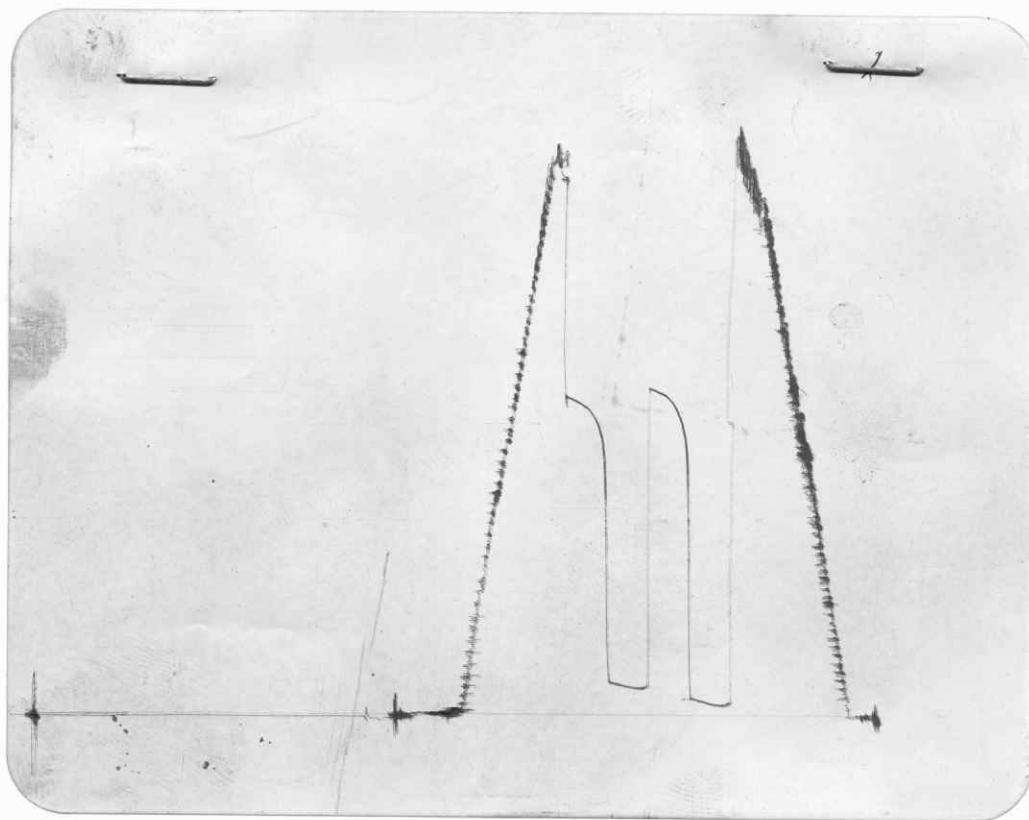
Price of Job _____

Tool Operator Gene Rudy

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 10931



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	<u>2092</u>	<u>2140</u>	P.S.I.
(B) First Initial Flow Pressure	<u>50</u>	<u>42</u>	P.S.I.
(C) First Final Flow Pressure	<u>72</u>	<u>60</u>	P.S.I.
(D) Initial Closed-in Pressure	<u>1245</u>	<u>1226</u>	P.S.I.
(E) Second Initial Flow Pressure	<u>108</u>	<u>102</u>	P.S.I.
(F) Second Final Flow Pressure	<u>130</u>	<u>120</u>	P.S.I.
(G) Final Closed-in Pressure	<u>1202</u>	<u>1198</u>	P.S.I.
(H) Final Hydrostatic Mud	<u>2056</u>	<u>2095</u>	P.S.I.

SUPERIOR TESTERS ENTERPRISES, INC.

WELL IDENTIFICATION DATA

COMPANY : NATIONAL PET. RESERVES WELL NAME : ROBBEN #1
ADDRESS : 250 N. ROCK ROAD, WICHITA LOCATION : C-S/2-SW-SW 9-10S-31W
STATE & COUNTY : KANSAS, THOMAS FIELD :
ELEV. (GR) : 3021 (KB) : 3026 TEST DATE : 8-8-1991

EQUIPMENT AND HOLE DATA

FORMATION TESTED : KANSAS CITY DRILL PIPE LENGTH(ft) : 4106
TEST INT. KB : 4133 to 4157 DRILL PIPE O.D. (in) : 3.82
ANCHOR LENGTH(ft) : 24 WEIGHT PIPE LENGTH(ft) :
TYPE OF TEST : Conventional WEIGHT PIPE ID : 2.75
TOTAL DEPTH(ft-kg) : 4157 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) : 4128
MUD VISCOSITY : 48 BOTTOM PACKER DEPTH(kb) : 4133
MUD CHLORIDES : 4000 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) : 116 TEST TICKET NUMBER : 10931

EXTRA EQUIPMENT : -JARS -SAFETY JOINT

ELEMENT SERIAL NO. : 906
RANGE : 0 - 2875 CLOCK RANGE : 12 HOURS
CAL. EQU. : 720.06 * Defl. + 3.93

SURFACE BLOW

1st Opening : WEAK BLOW BUILT TO 10 INCHES INTO THE WATER
2nd Opening : WEAK BLOW BUILT TO 7 1/2 INCHES INTO THE WATER

RECOVERY

Recovered 105 feet of SLIGHTLY MUDDY WATER WITH A TRACE OF OIL
Recovered 120 feet of VERY SLIGHTLY MUDDY WATER WITH A TRACE OF OIL

REMARKS :

WITNESSED BY : KEVIN HOWARD

TOOL OPERATOR : GENE BUDIG

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : NATIONAL PET.RESERVES WELL NAME : ROBBEN #1
 DATE OF TEST : 8-8-1991 LOCATION : C-S/2-SW-SW 9-10S-31W
 DEPTH : 4151.0 SERIAL NO. : 906

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			CALC	CORR	CORRECTED
TEST NO.:1					
Depth : 4151.0 ft-kb					
- 0:00	0.0	2.968	2140.96	-.15	2140.80
-1ST HYDROSTATIC	0.0	2.968	2140.96	-.15	2140.80
-2:45 1ST FLOW	0.0	.059	46.32	-3.50	42.82
- 2:50	5.0	.051	40.56	-3.55	37.01
- 2:55	10.0	.051	40.56	-3.55	37.01
- 3:00	15.0	.056	44.16	-3.52	40.64
- 3:05	20.0	.067	52.08	-3.46	48.62
- 3:10	25.0	.074	57.12	-3.42	53.70
- 3:15	30.0	.084	64.32	-3.36	60.96
-3:15 END FLOW	0.0	.084	64.32	-3.36	60.96
- 3:18	3.0	1.310	947.11	3.55	950.65
- 3:21	6.0	1.499	1083.20	3.73	1086.93
- 3:24	9.0	1.553	1122.08	3.64	1125.72
- 3:27	12.0	1.590	1148.72	3.58	1152.30
- 3:30	15.0	1.625	1173.92	3.52	1177.44
- 3:33	18.0	1.646	1189.04	3.48	1192.53
- 3:36	21.0	1.662	1200.57	3.46	1204.02
- 3:39	24.0	1.668	1204.89	3.45	1208.33
- 3:42	27.0	1.682	1214.97	3.42	1218.39
- 3:46	31.0	1.693	1222.89	3.41	1226.29
-3:46 1ST SHUT-IN	0.0	1.693	1222.89	3.41	1226.29
-3:46 2ND FLOW	0.0	.141	105.36	-3.04	102.32
- 3:51	5.0	.135	101.04	-3.07	97.97
- 3:56	10.0	.136	101.76	-3.07	98.69
- 4:01	15.0	.143	106.80	-3.03	103.77
- 4:06	20.0	.150	111.84	-2.99	108.85
- 4:11	25.0	.159	118.32	-2.94	115.38
- 4:15	29.0	.166	123.36	-2.90	120.46
-4:15 END FLOW	0.0	.166	123.36	-2.90	120.46
- 4:18	3.0	1.328	960.07	3.65	963.72
- 4:21	6.0	1.464	1057.99	3.79	1061.78
- 4:24	9.0	1.520	1098.32	3.69	1102.01
- 4:27	12.0	1.558	1125.68	3.63	1129.31
- 4:30	15.0	1.584	1144.40	3.59	1147.99
- 4:33	18.0	1.599	1155.20	3.56	1158.76
- 4:36	21.0	1.612	1164.56	3.54	1168.10
- 4:39	24.0	1.624	1173.20	3.52	1176.72
- 4:42	27.0	1.634	1180.40	3.50	1183.91
- 4:45	30.0	1.644	1187.60	3.49	1191.09
- 4:48	33.0	1.654	1194.80	3.47	1198.28

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : NATIONAL PET.RESERVES WELL NAME : ROBBEN #1
DATE OF TEST : 8-8-1991 LOCATION : C-S/2-SW-SW 9-10S-31W
DEPTH : 4151.0 SERIAL NO. : 906

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO.:1					
-4:48 2ND SHUT-IN	0.0	1.654	1194.80	3.47	1198.28
-2ND HYDROSTATIC	0.0	2.905	2095.59	-.05	2095.55

Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 8-9-1991 Location C-512-SW-5W 9-10⁵-31^N Elevation 3022 KB County Thomas

Company NATIONAL PETROLEUM RESERVES INC. Number of Copies 5

Charts Mailed to 250 North Rock Road Suite 340 Wichita Kansas 67206

Drilling Contractor EMPHASIS Drilling Rig #7

Length Drill Pipe 4162 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 4184 Bottom Packer Depth 4189 Number of Packers 2 Packer Size 6-3/4

TESTED FROM 4189 TO 4280 ANCHOR LENGTH 91 TOTAL DEPTH 4280 Hole Size 7 7/8"

LEASE & WELL NO. Robben #1 FORMATION TESTED KANSAS CITY TEST NO. 2

Mud Weight 9.1 Viscosity 46 Water Loss 10.4 Chlorides - Pits 4000 D.S.T.

Maximum Temp. 118 °F Initial Hydrostatic Pressure (A) 2206 P.S.I. Final Hydrostatic Pressure (H) 2142 P.S.I.

Tool Open I.F.P. from 4:00 A m to 4:30 A m 30 min

Tool Closed I.C.I.P. from 4:30 A m to 5:00 A m 30 min

Tool Open F.F.P. from 5:00 A m to 5:30 A m 30 min

Tool Closed F.C.I.P. from 5:30 A m to 6:00 A m 30 min

Initial Blow WEAK STEADY building blow - built to 2 inches into the water

Final Blow WEAK STEADY blow - built to 1/2 inch into the water

Total Feet Recovered 40 Gravity of Oil _____ Corrected

40 Feet of VERY slightly oil cut mud 0% Gas 3 % Oil 60 % Mud 37 % 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

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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

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. 906 Clock No. 906 47442 Depth 4274 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13561 Clock No. 13561 47441 Depth 4277 Insurance NONE

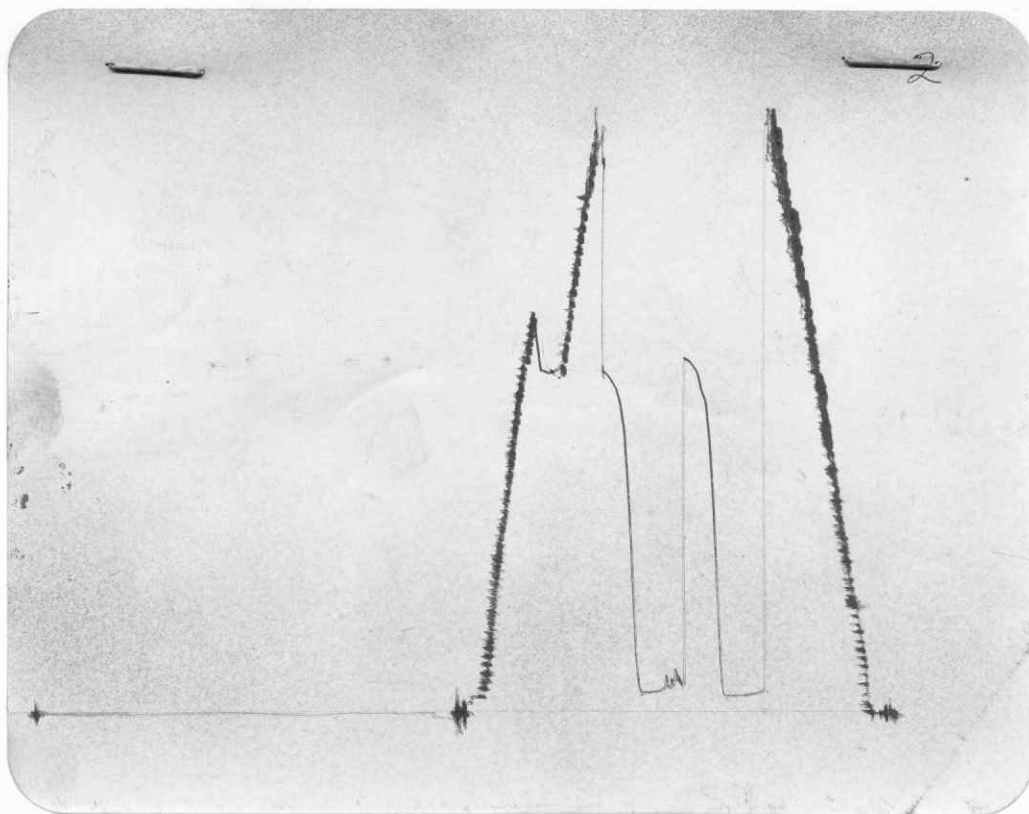
Price of Job _____

Tool Operator Dene Audig

Approved By _____

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NO 10932



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	<u>2206</u>	<u>2185</u>	P.S.I.
(B) First Initial Flow Pressure	<u>72</u>	<u>71</u>	P.S.I.
(C) First Final Flow Pressure	<u>50</u>	<u>53</u>	P.S.I.
(D) Initial Closed-in Pressure	<u>1339</u>	<u>1324</u>	P.S.I.
(E) Second Initial Flow Pressure	<u>101</u>	<u>89</u>	P.S.I.
(F) Second Final Flow Pressure	<u>72</u>	<u>67</u>	P.S.I.
(G) Final Closed-in Pressure	<u>1281</u>	<u>1275</u>	P.S.I.
(H) Final Hydrostatic Mud	<u>2142</u>	<u>2119</u>	P.S.I.

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : NATIONAL PET.RESERVES WELL NAME : ROBBEN #1
ADDRESS : 250 N.ROCK ROAD,WICHITA LOCATION : C-S/2-SW-SW 9-10S-31W
STATE & COUNTY : KANSAS,THOMAS FIELD :
ELEV.(GR) : 3021 (KB) : 3026 TEST DATE : 8-9-1991

EQUIPMENT AND HOLE DATA

FORMATION TESTED : KANSAS CITY DRILL PIPE LENGTH(ft) : 4162
TEST INT. KB : 4189 to 4280 DRILL PIPE O.D.(in) : 3.82
ANCHOR LENGTH(ft) : 91 WEIGHT PIPE LENGTH(ft) :
TYPE OF TEST : Conventional WEIGHT PIPE ID : 2.75
TOTAL DEPTH(ft-kb) : 4280 DRILL COLLAR LENGTH(ft) :
MAIN HOLE SIZE(in) : 7 7/8 DRILL COLLAR I.D.(in) : 2.259
MUD WEIGHT : 9.1 TOP PACKER DEPTH(kb) : 4284
MUD VISCOSITY : 46 BOTTOM PACKER DEPTH(kb) : 4285
MUD CHLORIDES : 4000 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) : 118 TEST TICKET NUMBER : 10932

EXTRA EQUIPMENT : -JARS -SAFETY JOINT

ELEMENT SERIAL NO. : 906
RANGE : 0 - 2875 CLOCK RANGE : 12 HOURS
CAL. EQU. : 720.06 * Defl. + 3.83

SURFACE BLOW

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

RECOVERY

Recovered 40 feet of VERY SLIGHTLY OIL CUT MUD

REMARKS :

WITNESSED BY : KEVIN HOWARD TOOL OPERATOR : GENE BUDIG
INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : NATIONAL PET.RESERVES
 DATE OF TEST : 8-9-1991
 DEPTH : 4274.0

WELL NAME : ROBBEN #1
 LOCATION : C-S/2-SW-SW 9-10S-31W
 SERIAL NO. : 906

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO.:2					
Depth : 4274.0 ft-kb					
- 0:00	0.0	.030	25.43	-3.66	21.77
-1ST HYDROSTATIC	0.0	3.030	2185.60	-.26	2185.34
-4:00 1ST FLOW	0.0	.099	75.12	-3.28	71.84
- 4:05	5.0	.088	67.20	-3.34	63.86
- 4:10	10.0	.081	62.16	-3.38	58.78
- 4:15	15.0	.076	58.56	-3.40	55.15
- 4:20	20.0	.075	57.84	-3.41	54.43
- 4:25	25.0	.075	57.84	-3.41	54.43
- 4:30	30.0	.074	57.12	-3.42	53.70
-4:30 END FLOW	0.0	.074	57.12	-3.42	53.70
- 4:33	3.0	.410	299.06	-1.52	297.53
- 4:36	6.0	.832	602.92	.85	603.77
- 4:39	9.0	1.281	926.22	3.38	929.61
- 4:42	12.0	1.506	1088.24	3.72	1091.95
- 4:45	15.0	1.631	1178.24	3.51	1181.75
- 4:48	18.0	1.716	1239.45	3.37	1242.82
- 4:51	21.0	1.770	1278.33	3.28	1281.61
- 4:54	24.0	1.801	1300.65	3.23	1303.88
- 4:57	27.0	1.818	1312.89	3.20	1316.09
- 5:00	30.0	1.830	1321.53	3.18	1324.71
-5:00 1ST SHUT-IN	0.0	1.830	1321.53	3.18	1324.71
-5:00 2ND FLOW	0.0	.124	93.12	-3.13	89.99
- 5:05	5.0	.139	103.92	-3.05	100.87
- 5:10	10.0	.141	105.36	-3.04	102.32
- 5:15	15.0	.105	79.44	-3.24	76.20
- 5:20	20.0	.096	72.96	-3.29	69.67
- 5:25	25.0	.093	70.80	-3.31	67.49
- 5:33	33.0	.093	70.80	-3.31	67.49
-5:33 END FLOW	0.0	.093	70.80	-3.31	67.49
- 5:36	3.0	.322	235.69	-2.02	233.67
- 5:39	6.0	.730	529.47	.28	529.75
- 5:42	9.0	1.151	832.62	2.65	835.27
- 5:45	12.0	1.451	1048.63	3.81	1052.44
- 5:48	15.0	1.605	1159.52	3.55	1163.07
- 5:51	18.0	1.671	1207.05	3.44	1210.49
- 5:54	21.0	1.707	1232.97	3.38	1236.35
- 5:57	24.0	1.737	1254.57	3.33	1257.90
- 6:00	27.0	1.756	1268.25	3.30	1271.55
- 6:01	28.0	1.762	1272.57	3.29	1275.86
-6:01 2ND SHUT-IN	0.0	1.762	1272.57	3.29	1275.86

Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 8-9-1991 Location C-512-S1W-SW 9-10-31 Elevation 3026 K.B. County Thomas

Company National Petroleum Services Inc. Number of Copies 5

Charts Mailed to 250 North Park Road Suite 340 Wichita Kansas 67206

Drilling Contractor Emphasis Drilling Rig #1

Length Drill Pipe 4291 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 4313 Bottom Packer Depth 4318 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 4318 TO 4348 ANCHOR LENGTH 30 TOTAL DEPTH 4348 Hole Size 7 7/8"

LEASE & WELL NO. Robben #1 FORMATION TESTED Kansas City TEST NO. 2

Mud Weight 9.3 Viscosity 52 Water Loss 9.4 Chlorides - Pits 5000 D.S.T.

Maximum Temp. 117 °F Initial Hydrostatic Pressure (A) 2235 P.S.I. Final Hydrostatic Pressure (H) 2214 P.S.I.

Tool Open I.F.P. from 8:45 p.m. to 9:00 p.m. 15 min

Tool Closed I.C.I.P. from 9:00 p.m. to 9:15 p.m. 15 min

Tool Open F.F.P. from 9:15 p.m. to 9:25 p.m. 10 min

Tool Closed F.C.I.P. from none m to Taken m 0 min

Initial Blow Very weak blow for 12 minutes & died

Final Blow No blow - flushed tool - tool surge work blow 2 minutes & died

Total Feet Recovered 10 Gravity of Oil _____ Corrected

10 Feet of Slightly oil spotted Thick HEAVY mud 0% Gas 4% Oil 96% Mud 0% 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

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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

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

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

Extra Equipment - Jars yes Safety Joint yes Extra Packer none Straddle none Hook Wall none

Top Recorder No. 906 Clock No. 47441 Depth 4342 Cir. Sub none Sampler none

Bottom Recorder No. 13561 Clock No. 47441 Depth 4345 Insurance none

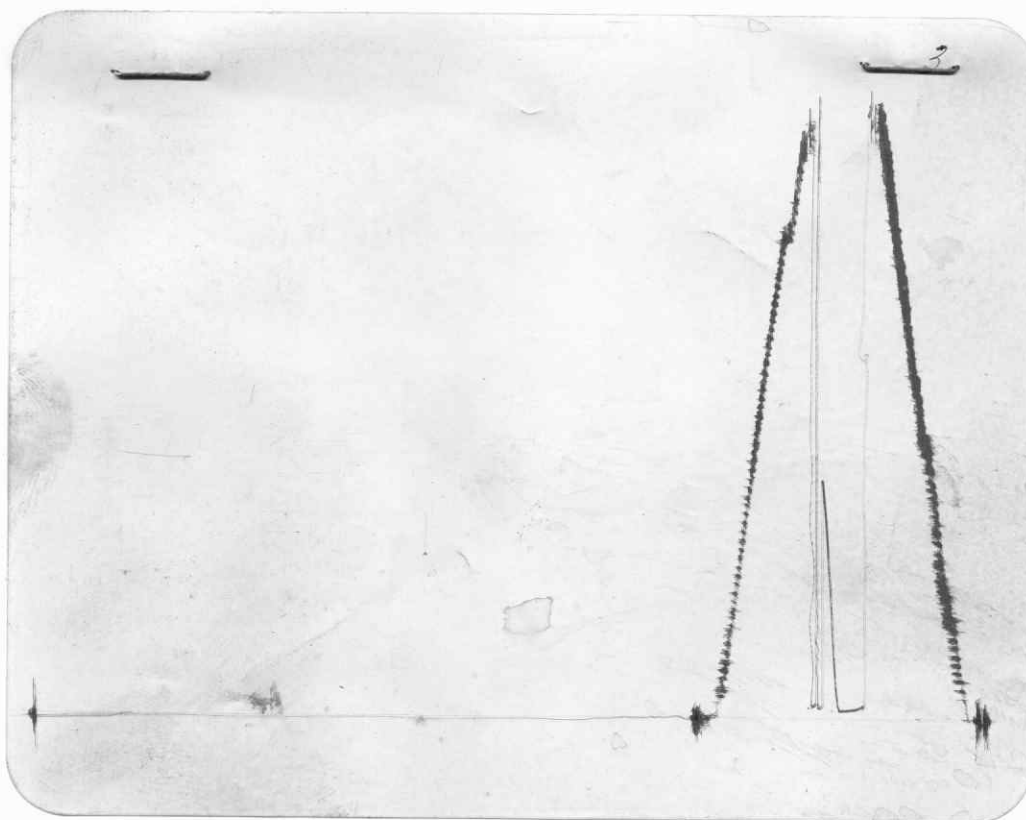
Price of Job _____

Tool Operator Gene Rudy

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 10933



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	2235	2224	P.S.I.
(B) First Initial Flow Pressure	50	48	P.S.I.
(C) First Final Flow Pressure	36	28	P.S.I.
(D) Initial Closed-in Pressure	899	898	P.S.I.
(E) Second Initial Flow Pressure	43	41	P.S.I.
(F) Second Final Flow Pressure	43	42	P.S.I.
(G) Final Closed-in Pressure			P.S.I.
(H) Final Hydrostatic Mud	2214	2182	P.S.I.

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : NATIONAL PET.RESERVES WELL NAME : ROBBEN #1
ADDRESS : 250 N.ROCK ROAD,WICHITA LOCATION : C-S/2-SW-SW 9-10S-31W
STATE & COUNTY : KANSAS,THOMAS FIELD :
ELEV.(GR) : 3021 (KB) : 3026 TEST DATE : 8-9-1991

EQUIPMENT AND HOLE DATA

FORMATION TESTED : KANSAS CITY DRILL PIPE LENGTH(ft) : 4291
TEST INT. KB : 4318 to 4348 DRILL PIPE O.D.(in) : 3.82
ANCHOR LENGTH(ft) : 30 WEIGHT PIPE LENGTH(ft) :
TYPE OF TEST : Conventional WEIGHT PIPE ID : 2.75
TOTAL DEPTH(ft-kb) : 4348 DRILL COLLAR LENGTH(ft) :
MAIN HOLE SIZE(in) : 7 7/8 DRILL COLLAR I.D.(in) : 2.259
MUD WEIGHT : 9.2 TOP PACKER DEPTH(kb) : 4313
MUD VISCOSITY : 52 BOTTOM PACKER DEPTH(kb) : 4318
MUD CHLORIDES : 5000 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) : 117 TEST TICKET NUMBER : 10933

EXTRA EQUIPMENT : -JARS -SAFETY JOINT

ELEMENT SERIAL NO. : 906
RANGE : 0 - 2875 CLOCK RANGE : 12 HOURS
CAL. EQU. : 720.06 * Defl. + 3.83

SURFACE BLOW

1st Opening : VERY WEAK BLOW FOR 12 MINUTES AND DIED
2nd Opening : NO BLOW

RECOVERY

Recovered 10 feet of SLIGHTLY OIL SPOTTED THICK HEAVY MUD

REMARKS :

WITNESSED BY : KEVIN HOWARD

TOOL OPERATOR : GENE BUDIG

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : NATIONAL PET.RESERVES
 DATE OF TEST : 8-9-1991
 DEPTH : 4342.0

WELL NAME : ROBBEN #1
 LOCATION : C-S/2-SW-SW 9-10S-31W
 SERIAL NO. : 906

COMMENTS	TIME min	DEFL in	----- CALC	PRESSURE PSIG CORR	----- CORRECTED
TEST NO.:3					
Depth : 4342.0 ft-kb					
-1ST HYDROSTATIC	0.0	3.085	2225.20	-.35	2224.86
-8:45 1ST FLOW	0.0	.066	51.36	-3.46	47.90
- 8:50	5.0	.047	37.68	-3.57	34.11
- 8:55	10.0	.042	34.08	-3.60	30.48
- 9:00	15.0	.039	31.91	-3.61	28.30
- 9:04	19.0	.039	31.91	-3.61	28.30
-9:04 END FLOW	0.0	.039	31.91	-3.61	28.30
- 9:09	5.0	.414	301.94	-1.50	300.44
- 9:14	10.0	1.017	736.13	1.90	738.03
- 9:18	14.0	1.238	895.26	3.14	898.40
-9:18 1ST SHUT-IN	0.0	1.238	895.26	3.14	898.40
-9:18 2ND FLOW	0.0	.057	44.88	-3.51	41.36
- 9:27	9.0	.050	39.84	-3.55	36.28
-9:27 END FLOW	0.0	.058	45.60	-3.51	42.09
-2ND HYDROSTATIC	0.0	3.026	2182.72	-.25	2182.47

Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 8-10-1991 Location C-S12-S1W-SW 9-10⁵-31 Elevation 3026 K.B. County Thomas

Company National Petroleum Reserves Number of Copies 5

Charts Mailed to Emphasis Drilling Rig #7

Drilling Contractor 250 North Rock Road Suite 340 Wichita Kansas 67206

Length Drill Pipe 4258 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" X 1 1/2"

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 4277 Bottom Packer Depth 4282 Number of Packers 2 Packer Size 6 3/4

TESTED FROM 4282 TO 4348 ANCHOR LENGTH 66 TOTAL DEPTH 4348 Hole Size 7 7/8"

LEASE & WELL NO. Robben #1 FORMATION TESTED Kansas City TEST NO. 4

Mud Weight 9.2 Viscosity 52 Water Loss 9.4 Chlorides - Pits 5000 D.S.T.

Maximum Temp. 117 °F Initial Hydrostatic Pressure (A) 2228 P.S.I. Final Hydrostatic Pressure (H) 2219 P.S.I.

Tool Open I.F.P. from 12:00 A m to 12:30 A m 30 min

Tool Closed I.C.I.P. from 12:30 A m to 1:00 A m 30 min

Tool Open F.F.P. from 1:00 A m to 1:15 A m 15 min

Tool Closed F.C.I.P. from 1:15 A m to 1:30 A m 15 min

Initial Blow VERY WEAK surface blow throughout

Final Blow VERY WEAK surface blow through out

Total Feet Recovered 40 Gravity of Oil _____ Corrected

40 Feet of oil spotted mud 0 % Gas 2 % Oil 98 % Mud 0 % 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 YES Safety Joint yes Extra Packer None Straddle None Hook Wall None

Top Recorder No. 906 Clock No. 47441 Depth 4342 Cir. Sub None Sampler None

Bottom Recorder No. 13561 Clock No. 47442 Depth 4345 Insurance None

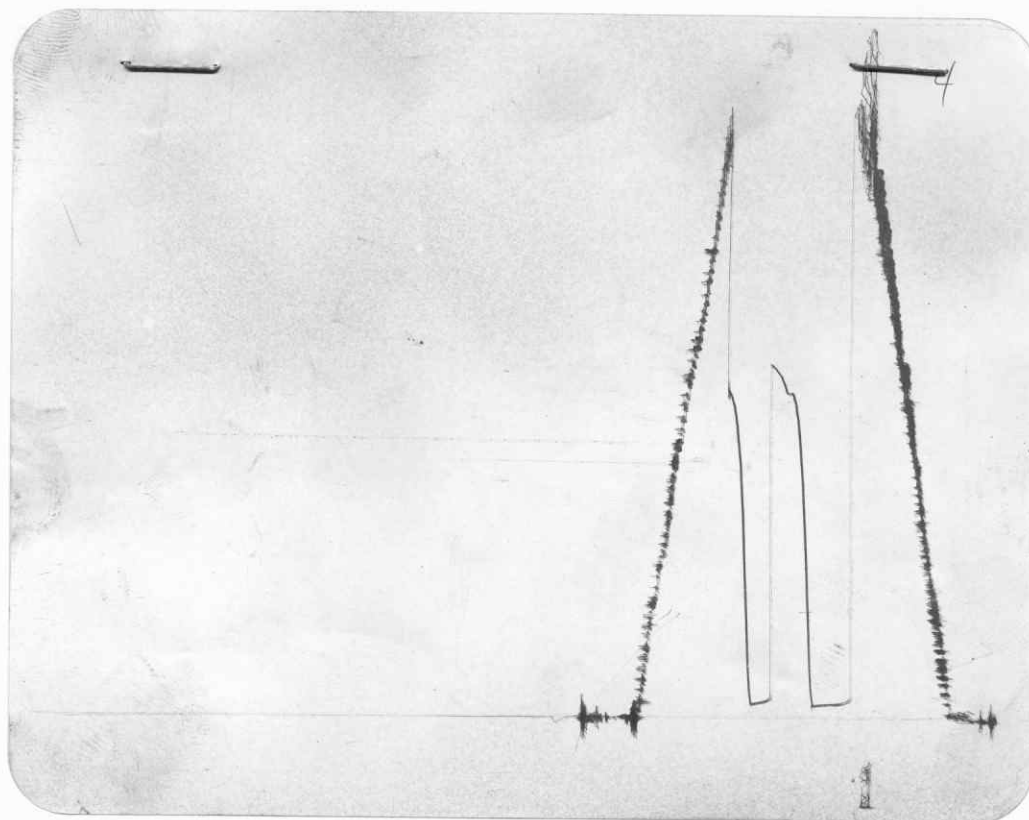
Price of Job _____

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 10934



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	2228	2247	P.S.I.
(B) First Initial Flow Pressure	65	69	P.S.I.
(C) First Final Flow Pressure	50	44	P.S.I.
(D) Initial Closed-in Pressure	1339	1326	P.S.I.
(E) Second Initial Flow Pressure	72	68	P.S.I.
(F) Second Final Flow Pressure	50	49	P.S.I.
(G) Final Closed-in Pressure	1224	1234	P.S.I.
(H) Final Hydrostatic Mud	2219	2168	P.S.I.

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : NATIONAL PET.RESERVES WELL NAME : ROBBEN #1
ADDRESS : 250 N.ROCK ROAD,WICHITA LOCATION : C-S/2-SW-SW 9-10S-31W
STATE & COUNTY : KANSAS,THOMAS FIELD :
ELEV.(GR) : 3021 (KB) : 3026 TEST DATE : 8-10-1991

EQUIPMENT AND HOLE DATA

FORMATION TESTED : KANSAS CITY DRILL PIPE LENGTH(ft) : 4258
TEST INT. KB : 4282 to 4348 DRILL PIPE O.D.(in) : 3.82
ANCHOR LENGTH(ft) : 66 WEIGHT PIPE LENGTH(ft) :
TYPE OF TEST : Conventional WEIGHT PIPE ID : 2.75
TOTAL DEPTH(ft-kb) : 4348 DRILL COLLAR LENGTH(ft) :
MAIN HOLE SIZE(in) : 7 7/8 DRILL COLLAR I.D.(in) : 2.259
MUD WEIGHT : 9.2 TOP PACKER DEPTH(kb) : 4277
MUD VISCOSITY : 52 BOTTOM PACKER DEPTH(kb) : 4282
MUD CHLORIDES : 5000 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) : 117 TEST TICKET NUMBER : 10934

EXTRA EQUIPMENT : -JARS -SAFETY JOINT

ELEMENT SERIAL NO. : 906
RANGE : 0 - 2875 CLOCK RANGE : 12 HOURS
CAL. EQU. : 720.06 * Defl. + 3.83

SURFACE BLOW

1st Opening : VERY WEAK SURFACE BLOW THROUGH OUT
2nd Opening : VERY WEAK SURFACE BLOW THROUGH OUT

RECOVERY

Recovered 40 feet of OIL SPOTTED MUD

REMARKS :

WITNESSED BY : KEVIN HOWARD

TOOL OPERATOR : GENE BUDIG

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : NATIONAL PET.RESERVES WELL NAME : ROBBEN #1
 DATE OF TEST : 8-10-1991 LOCATION : C-S/2-SW-SW 9-10S-31W
 DEPTH : 4342.0 SERIAL NO. : 906

COMMENTS	TIME min	DEFL in	----- PRESSURE PSIG -----		
			CALC	CORR	CORRECTED
TEST NO.:4					
Depth : 4342.0 ft-kb					
-1ST HYDROSTATIC	0.0	3.117	2248.25	-.40	2247.84
-12:00 1ST FLOW	0.0	.096	72.96	-3.29	69.67
- 12:05	5.0	.074	57.12	-3.42	53.70
- 12:10	10.0	.069	53.52	-3.44	50.07
- 12:15	15.0	.069	53.52	-3.44	50.07
- 12:20	20.0	.065	50.64	-3.47	47.17
- 12:25	25.0	.062	48.48	-3.48	44.99
- 12:28	28.0	.061	47.76	-3.49	44.27
-12:28 END FLOW	0.0	.061	47.76	-3.49	44.27
- 12:33	5.0	.822	595.72	.80	596.52
- 12:38	10.0	1.457	1052.95	3.80	1056.75
- 12:43	15.0	1.677	1211.37	3.43	1214.80
- 12:48	20.0	1.690	1220.73	3.41	1224.14
- 12:53	25.0	1.783	1287.69	3.26	1290.95
- 12:59	31.0	1.832	1322.97	3.17	1326.15
-12:59 1ST SHUT-IN	0.0	1.832	1322.97	3.17	1326.15
-12:59 2ND FLOW	0.0	.095	72.24	-3.30	68.94
- 13:04	5.0	.081	62.16	-3.38	58.78
- 13:09	10.0	.075	57.84	-3.41	54.43
- 13:14	15.0	.068	52.80	-3.45	49.35
-1:14 END FLOW	0.0	.068	52.80	-3.45	49.35
- 1:19	5.0	.817	592.12	.77	592.89
- 1:24	10.0	1.487	1074.56	3.75	1078.30
- 1:29	15.0	1.677	1211.37	3.43	1214.80
- 1:32	18.0	1.705	1231.53	3.39	1234.91
-1:32 2ND SHUT-IN	0.0	1.705	1231.53	3.39	1234.91
-2ND HYDROSTATIC	0.0	3.007	2169.04	-.22	2168.82

Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 8-11-1991 Location C-512-SW-SW 9-10⁵ 31^W Elevation 3026 KB County THOMAS

Company NATIONAL PETROLEUM RESERVES INC. Number of Copies 5

Charts Mailed to 250 North Rock Road Suite 340 Wichita Kansas 67206

Drilling Contractor EMPHASIS DRILLING RIG #7

Length Drill Pipe 4307 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 4334²⁹ Bottom Packer Depth 4334 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 4334 TO 4490 ANCHOR LENGTH 156 TOTAL DEPTH 4490 Hole Size 7 7/8

LEASE & WELL NO. Robben #1 FORMATION TESTED Altamont & Pawnee TEST NO. 5

Mud Weight 9.2 Viscosity 59 Water Loss 9.2 Chlorides - Pits 4000 D.S.T. 29000

Maximum Temp. 117 °F Initial Hydrostatic Pressure (A) 2364 P.S.I. Final Hydrostatic Pressure (H) 2314 P.S.I.

Tool Open I.F.P. from 10:30 P.m to 11:00 P.m 30 min

Tool Closed I.C.I.P. from 11:00 P.m to 11:30 P.m 30 min

Tool Open F.F.P. from 11:30 P.m to 12:30 A.m 60 min

Tool Closed F.C.I.P. from 12:30 A.m to 1:30 A.m 60 min

Initial Blow WEAK building blow built to 7 1/2 inches into the water

Final Blow WEAK building blow built to 6 inches into the water

Total Feet Recovered 145 Gravity of Oil _____ Corrected

25 Feet of Slightly oil cut mud 0 % Gas 3 % Oil 97 % Mud 0 % Water

60 Feet of Slightly oil cut mud 0 % Gas 7 % Oil 93 % Mud 0 % Water

60 Feet of Slightly oil & Gas cut mud 8 % Gas 7 % Oil 60 % Mud 25 % 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. 906 Clock No. 47441 Depth 4484 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13561 Clock No. 47442 Depth 4487 Insurance NONE

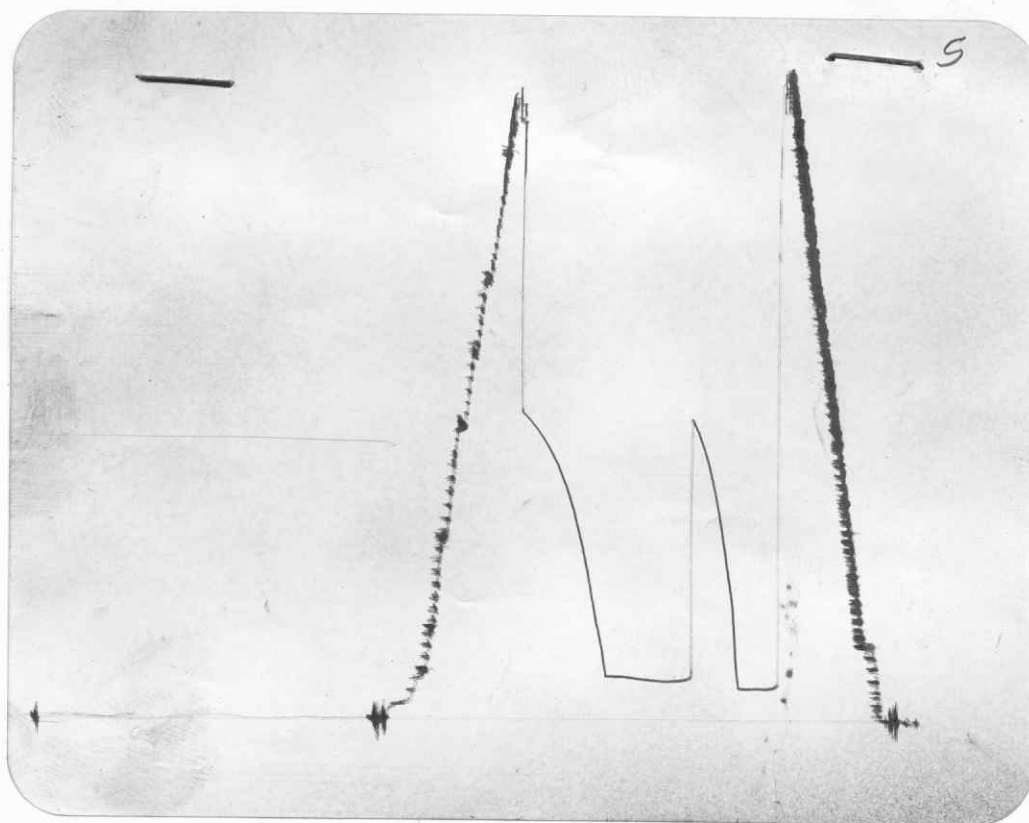
Price of Job _____

Tool Operator Gene Budig

Approved By _____

Superior Testers Enterprises, Inc. shall not be liable for damage of any kind to 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 10935



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	<u>2364</u>	<u>2368</u>	P.S.I.
(B) First Initial Flow Pressure	<u>115</u>	<u>127</u>	P.S.I.
(C) First Final Flow Pressure	<u>123</u>	<u>118</u>	P.S.I.
(D) Initial Closed-in Pressure	<u>1137</u>	<u>1128</u>	P.S.I.
(E) Second Initial Flow Pressure	<u>152</u>	<u>155</u>	P.S.I.
(F) Second Final Flow Pressure	<u>173</u>	<u>160</u>	P.S.I.
(G) Final Closed-in Pressure	<u>1181</u>	<u>1152</u>	P.S.I.
(H) Final Hydrostatic Mud	<u>2314</u>	<u>2290</u>	P.S.I.

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : NATIONAL PET.RESERVES WELL NAME : ROBBEN #1
ADDRESS : 250 N.ROCK ROAD,WICHITA LOCATION : C-S/2-SW-SW 9-10S-31W
STATE & COUNTY : KANSAS,THOMAS FIELD :
ELEV.(GR) : 3021 (KB) : 3026 TEST DATE : 8-11-1991

EQUIPMENT AND HOLE DATA

FORMATION TESTED : ALTAMONT & PAWNEEDRILL PIPE LENGTH(ft) : 4307
TEST INT. KB : 4334 to 4490 DRILL PIPE O.D.(in) : 3.82
ANCHOR LENGTH(ft) : 156 WEIGHT PIPE LENGTH(ft) :
TYPE OF TEST : Conventional WEIGHT PIPE ID : 2.75
TOTAL DEPTH(ft-kb) : 4490 DRILL COLLAR LENGTH(ft) :
MAIN HOLE SIZE(in) : 7 7/8 DRILL COLLAR I.D.(in) : 2.259
MUD WEIGHT : 9.2 TOP PACKER DEPTH(kb) : 4329
MUD VISCOSITY : 59 BOTTOM PACKER DEPTH(kb) : 4334
MUD CHLORIDES : 4000 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) : 117 TEST TICKET NUMBER : 10935

EXTRA EQUIPMENT : -JARS -SAFETY JOINT

ELEMENT SERIAL NO. : 906
RANGE : 0 - 2875 CLOCK RANGE : 12 HOURS
CAL. EQU. : 720.06 * Defl. + 3.83

SURFACE BLOW

1st Opening : WEAK BLOW BUILT TO 7 1/2 INCHES INTO THE WATER
2nd Opening : WEAK BLOW BUILT TO 6 INCHES INTO THE WATER

RECOVERY

Recovered 25 feet of SLIGHTLY OIL CUT MUD
Recovered 60 feet of SLIGHTLY OIL CUT MUD
Recovered 60 feet of SLIGHTLY OIL & GAS CUT MUD

REMARKS :

WITNESSED BY : KEVIN HOWARD TOOL OPERATOR : GENE BUDIG

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : NATIONAL PET.RESERVES WELL NAME : ROBBEN #1
 DATE OF TEST : 8-11-1991 LOCATION : C-S/2-SW-SW 9-10S-31W
 DEPTH : 4484.0 SERIAL NO. : 906

COMMENTS	TIME min	DEFL in	----- CALC	PRESSURE PSIG CORR	----- CORRECTED
TEST NO.:5					
Depth : 4484.0 ft-kb					
-1ST HYDROSTATIC	0.0	3.285	2369.22	-.68	2368.53
- 0:00	0.0	.176	130.56	-2.84	127.72
- 0:00	0.0	.106	80.16	-3.24	76.92
-10:30 1ST FLOW	0.0	.176	130.56	-2.84	127.72
- 10:35	5.0	.163	121.20	-2.91	118.29
- 10:40	10.0	.161	119.76	-2.93	116.84
- 10:45	15.0	.161	119.76	-2.93	116.84
- 10:50	20.0	.161	119.76	-2.93	116.84
- 10:55	25.0	.161	119.76	-2.93	116.84
- 11:00	30.0	.163	121.20	-2.91	118.29
- 10:30	0.0	.163	121.20	-2.91	118.29
- 10:33	3.0	.425	309.86	-1.44	308.42
- 10:36	6.0	.653	474.03	-.15	473.88
- 10:39	9.0	.801	580.60	.68	581.28
- 10:42	12.0	.932	674.92	1.42	676.34
- 10:45	15.0	1.068	772.85	2.18	775.04
- 10:48	18.0	1.186	857.82	2.85	860.67
- 10:51	21.0	.279	204.73	-2.26	202.47
- 10:54	24.0	1.350	975.91	3.77	979.68
- 10:57	27.0	1.428	1032.07	3.85	1035.92
- 11:00	30.0	1.482	1070.96	3.76	1074.71
- 11:03	33.0	1.529	1104.80	3.68	1108.48
- 11:05	35.0	1.557	1124.96	3.63	1128.59
-11:35 1ST SHUT-IN	0.0	1.557	1124.96	3.63	1128.59
-11:35 2ND FLOW	0.0	.214	157.92	-2.63	155.30
- 11:40	5.0	.206	152.16	-2.67	149.49
- 11:45	10.0	.200	147.84	-2.71	145.14
- 11:50	15.0	.197	145.68	-2.72	142.96
- 11:55	20.0	.199	147.12	-2.71	144.41
- 12:00	25.0	.199	147.12	-2.71	144.41
- 12:05	30.0	.202	149.28	-2.69	146.59
- 12:10	35.0	.207	152.88	-2.67	150.22
- 12:15	40.0	.212	156.48	-2.64	153.85
- 12:20	45.0	.217	160.08	-2.61	157.47
- 12:25	50.0	.218	160.80	-2.60	158.20
- 12:30	55.0	.218	160.80	-2.60	158.20
- 12:35	60.0	.221	162.97	-2.59	160.38
- 12:38	63.0	.221	162.97	-2.59	160.38
-12:38 END FLOW	0.0	.221	162.97	-2.59	160.38
- 12:41	3.0	.371	270.97	-1.74	269.23

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : NATIONAL PET.RESERVES

WELL NAME : ROBBEN #1

DATE OF TEST : 8-11-1991

LOCATION : C-S/2-SW-SW 9-10S-31W

DEPTH : 4484.0

SERIAL NO. : 906

COMMENTS	TIME min	DEFL in	----- CALC	PRESSURE PSIG CORR	----- CORRECTED
TEST NO.:5					
- 12:44	6.0	.480	349.46	-1.13	348.33
- 12:47	9.0	.586	425.79	-.53	425.25
- 12:50	12.0	.703	510.03	.13	510.16
- 12:53	15.0	.819	593.56	.78	594.34
- 12:56	18.0	.912	660.52	1.31	661.83
- 12:59	21.0	1.007	728.93	1.84	730.77
- 13:02	24.0	1.086	785.81	2.29	788.10
- 13:05	27.0	1.157	836.94	2.69	839.62
- 13:08	30.0	1.208	873.66	2.97	876.63
- 13:11	33.0	1.277	923.34	3.36	926.71
- 13:14	36.0	1.325	957.91	3.63	961.54
- 13:17	39.0	1.358	981.67	3.82	985.49
- 13:20	42.0	1.404	1014.79	3.89	1018.68
- 13:23	45.0	1.438	1039.27	3.83	1043.10
- 13:26	48.0	1.468	1060.87	3.78	1064.66
- 13:29	51.0	1.501	1084.64	3.73	1088.36
- 13:32	54.0	1.526	1102.64	3.68	1106.32
- 13:35	57.0	1.553	1122.08	3.64	1125.72
- 13:38	60.0	1.577	1139.36	3.60	1142.96
- 13:40	62.0	1.590	1148.72	3.58	1152.30
-1:40 2ND SHUT-IN	0.0	1.590	1148.72	3.58	1152.30
-2ND HYDROSTATIC	0.0	3.177	2291.45	-.50	2290.95

Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 8-11-1991 Location C/S12-SW-SW 9-10-31^W Elevation 3036 KB County THOMAS

Company NATIONAL PETROLEUM RESERVES INC. Number of Copies 5

Charts Mailed to 250 NORTH ROCK ROAD SUITE 340 WICHITA KANSAS 67206

Drilling Contractor EMPHASIS DRILLING RIG #7

Length Drill Pipe 4456 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 4479 Bottom Packer Depth 4484 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 4484 TO 4620 ANCHOR LENGTH 136 TOTAL DEPTH 4620 Hole Size 7 1/8"

LEASE & WELL NO. Robben #1 FORMATION TESTED _____ TEST NO. 6

Mud Weight 9.3 Viscosity 48 Water Loss 9.3 Chlorides - Pits 4000 D.S.T. 34000

Maximum Temp. 124 °F Initial Hydrostatic Pressure (A) 2400 P.S.I. Final Hydrostatic Pressure (H) 2379 P.S.I.

Tool Open I.F.P. from 10:15 A.m to 10:45 P.m 30 min

Tool Closed I.C.I.P. from 10:45 P.m to 11:15 P.m 30 min

Tool Open F.F.P. from 11:15 P.m to 12:00 P.m 45 min

Tool Closed F.C.I.P. from 12:00 A.m to 1:00 A.m 60 min

Initial Blow Good blow - bottom of a 5 Gallon bucket in 3 1/4 minutes

Final Blow Good blow - bottom of a 5 Gallon bucket in 4 minutes

Total Feet Recovered 585 Gravity of Oil 43 Corrected

1200 Feet of Gas in the Pipe % Gas _____ % Oil _____ % Mud _____ % Water _____

225 Feet of CLEAN GASSY OIL 27 % Gas 73 % Oil 0 % Mud 0 % Water

180 Feet of 0 43 % Gas 25 % Oil 32 % Mud 0 % Water

60 Feet of 10 % Gas 75 % Oil 15 % Mud _____ % Water

90 Feet of 66 % Gas 12 % Oil 15 % Mud 7 % Water

30 Feet of 35 % Gas 5 % Oil 25 % Mud 35 % 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. 906 Clock No. 47441 Depth 4614 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13561 Clock No. 47442 Depth 4617 Insurance NONE

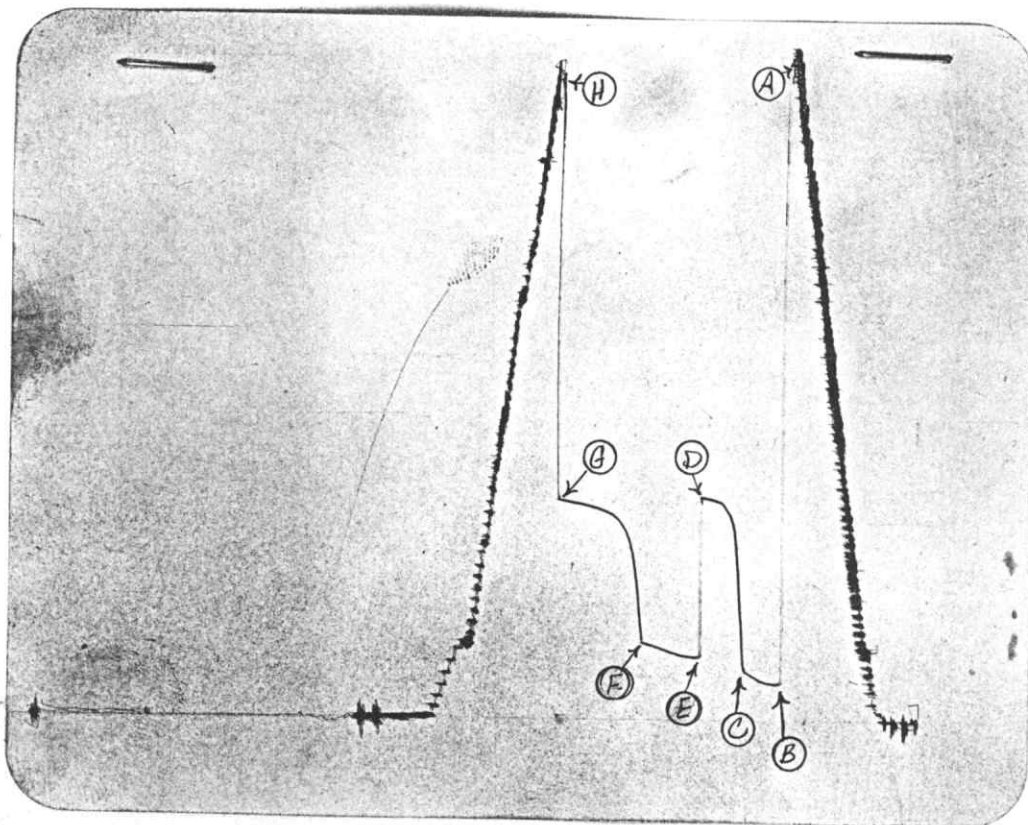
Price of Job _____

Tool Operator Gene Ludwig

Approved By _____

Nº 10936

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	2400	2456	P.S.I.
(B) First Initial Flow Pressure	79	137	P.S.I.
(C) First Final Flow Pressure	195	187	P.S.I.
(D) Initial Closed-in Pressure	848	844	P.S.I.
(E) Second Initial Flow Pressure	246	239	P.S.I.
(F) Second Final Flow Pressure	289	294	P.S.I.
(G) Final Closed-in Pressure	826	830	P.S.I.
(H) Final Hydrostatic Mud	2379	2341	P.S.I.

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : NATIONAL PET.RESERVES WELL NAME : ROBBEN #1
ADDRESS : 250 N.ROCK ROAD,WICHITA LOCATION : C-S/2-SW-SW 9-10S-31W
STATE & COUNTY : KANSAS,THOMAS FIELD :
ELEV.(GR) : 3021 (KB) : 3026 TEST DATE : 8-11-1991

EQUIPMENT AND HOLE DATA

FORMATION TESTED : MYRICK STATION DRILL PIPE LENGTH(ft) : 4456
TEST INT. KB : 4484 to 4620 DRILL PIPE O.D.(in) : 3.82
ANCHOR LENGTH(ft) : 136 WEIGHT PIPE LENGTH(ft) :
TYPE OF TEST : Conventional WEIGHT PIPE ID : 2.75
TOTAL DEPTH(ft-kb) : 4620 DRILL COLLAR LENGTH(ft) :
MAIN HOLE SIZE(in) : 7 7/8 DRILL COLLAR I.D.(in) : 2.259
MUD WEIGHT : 9.2 TOP PACKER DEPTH(kb) : 4479
MUD VISCOSITY : 48 BOTTOM PACKER DEPTH(kb) : 4484
MUD CHLORIDES : 4000 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) : 124 TEST TICKET NUMBER : 10936

EXTRA EQUIPMENT : -JARS -SAFETY JOINT

ELEMENT SERIAL NO. : 906
RANGE : 0 - 2875 CLOCK RANGE : 12 HOURS
CAL. EQU. : 720.06 * Defl. + 3.83

SURFACE BLOW

1st Opening : GOOD BLOW BOTTOM OF THE BUCKET IN 3 1/4 MINUTES
2nd Opening : GOOD BLOW BOTTOM OF THE BUCKET IN 4 MINUTES

RECOVERY

Recovered 1200 feet of GAS IN THE PIPE
Recovered 225 feet of CLEAN GASSY OIL 27%GAS 73%OIL
Recovered 180 feet of HEAVY OIL & GAS CUT MUD 43%GAS 25%OIL 32%MUD
Recovered 60 feet of MUDDY GASSY OIL 10%GAS 75%OIL 15%MUD
Recovered 90 feet of GASSY MUD CUT OIL
Recovered 30 Feet of gassy oil cut muddy water 35%gas 5%oil 25%mud 35%water
REMARKS :

WITNESSED BY : KEVIN HOWARD

TOOL OPERATOR : GENE BUDIG

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : NATIONAL PET.RESERVES
 DATE OF TEST : 8-11-1991
 DEPTH : 4614.0

WELL NAME : ROBBEN #1
 LOCATION : C-S/2-SW-SW 9-10S-31W
 SERIAL NO. : 906

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO.:6					
Depth : 4614.0 ft-kb					
-1ST HYDROSTATIC	0.0	3.408	2457.78	-.89	2456.90
- 0:00	0.0	.190	140.64	-2.76	137.88
-10:15 1ST FLOW	0.0	.190	140.64	-2.76	137.88
- 10:20	5.0	.194	143.52	-2.74	140.78
- 10:25	10.0	.200	147.84	-2.71	145.14
- 10:30	15.0	.210	155.04	-2.65	152.39
- 10:35	20.0	.229	168.73	-2.54	166.18
- 10:40	25.0	.246	180.97	-2.45	178.52
- 10:43	28.0	.258	189.61	-2.38	187.23
-10:43 END FLOW	0.0	.259	190.33	-2.37	187.95
- 10:46	3.0	.590	428.67	-.51	428.16
- 10:49	6.0	.898	650.44	1.23	651.67
- 10:52	9.0	1.042	754.13	2.04	756.17
- 10:55	12.0	1.084	784.37	2.27	786.65
- 10:58	15.0	1.115	806.69	2.45	809.14
- 11:01	18.0	1.135	821.10	2.56	823.66
- 11:04	21.0	1.144	827.58	2.61	830.19
- 11:07	24.0	1.152	833.34	2.66	835.99
- 11:10	27.0	1.157	836.94	2.69	839.62
- 11:13	30.0	1.159	838.38	2.70	841.07
- 11:16	33.0	1.164	841.98	2.72	844.70
-11:16 1ST SHUT-IN	0.0	1.164	841.98	2.72	844.70
-11:16 2ND FLOW	0.0	.330	241.45	-1.97	239.48
- 11:21	5.0	.330	241.45	-1.97	239.48
- 11:26	10.0	.337	246.49	-1.93	244.56
- 11:31	15.0	.343	250.81	-1.90	248.91
- 11:36	20.0	.354	258.73	-1.84	256.89
- 11:41	25.0	.365	266.65	-1.78	264.88
- 11:46	30.0	.379	276.73	-1.70	275.04
- 11:50	34.0	.387	282.49	-1.65	280.84
- 11:56	40.0	.400	291.86	-1.58	290.28
- 12:00	44.0	.406	296.18	-1.55	294.63
-12:00 END FLOW	0.0	.406	296.18	-1.55	294.63
- 12:03	3.0	.678	492.03	-.01	492.02
- 12:06	6.0	.817	592.12	.77	592.89
- 12:09	9.0	.925	669.88	1.38	671.26
- 12:12	12.0	.982	710.93	1.70	712.63
- 12:15	15.0	1.018	736.85	1.90	738.75
- 12:18	18.0	1.039	751.97	2.02	753.99
- 12:21	21.0	1.059	766.37	2.13	768.51

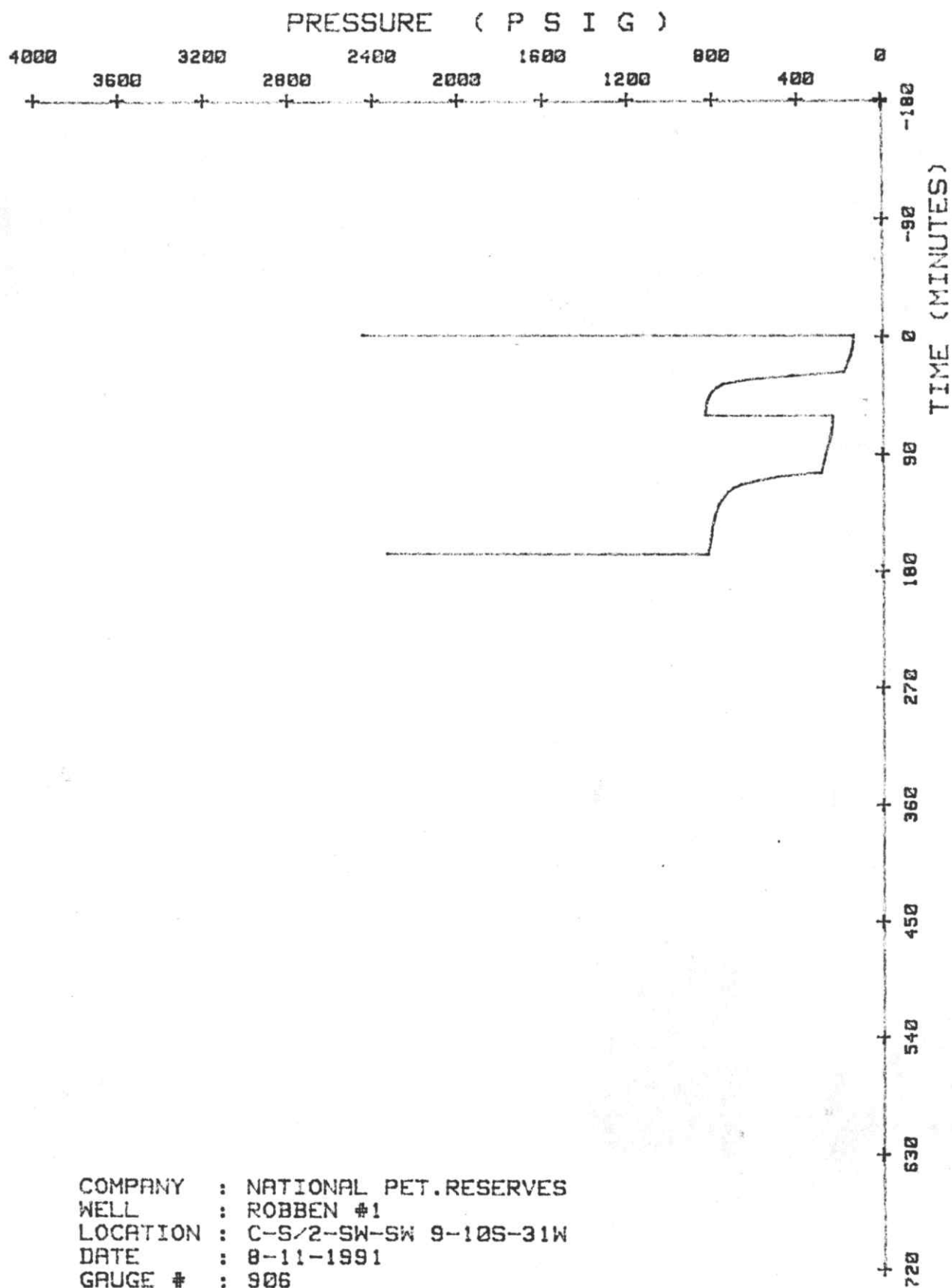
SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : NATIONAL PET.RESERVES
 DATE OF TEST : 8-11-1991
 DEPTH : 4614.0

WELL NAME : ROBBEN #1
 LOCATION : C-S/2-SW-SW 9-10S-31W
 SERIAL NO. : 906

COMMENTS	TIME min	DEFL in	----- CALC	----- PRESSURE PSIG CORR	----- CORRECTED
TEST NO.:6					
- 12:24	24.0	1.073	776.45	2.21	778.66
- 12:27	27.0	1.083	783.65	2.27	785.92
- 12:30	30.0	1.093	790.85	2.32	793.18
- 12:33	33.0	1.100	795.89	2.36	798.26
- 12:36	36.0	1.105	799.49	2.39	801.89
- 12:39	39.0	1.111	803.81	2.43	806.24
- 12:42	42.0	1.116	807.41	2.45	809.87
- 12:45	45.0	1.120	810.30	2.48	812.77
- 12:48	48.0	1.123	812.46	2.49	814.95
- 12:51	51.0	1.127	815.34	2.52	817.85
- 12:54	54.0	1.131	818.22	2.54	820.75
- 12:57	57.0	1.135	821.10	2.56	823.66
- 13:00	60.0	1.141	825.42	2.60	828.01
- 13:03	63.0	1.145	828.30	2.62	830.91
-1:03 2ND SHUT-IN	0.0	1.145	828.30	2.62	830.91
-2ND HYDROSTATIC	0.0	3.248	2342.57	-.62	2341.95



GAUGE # : 906

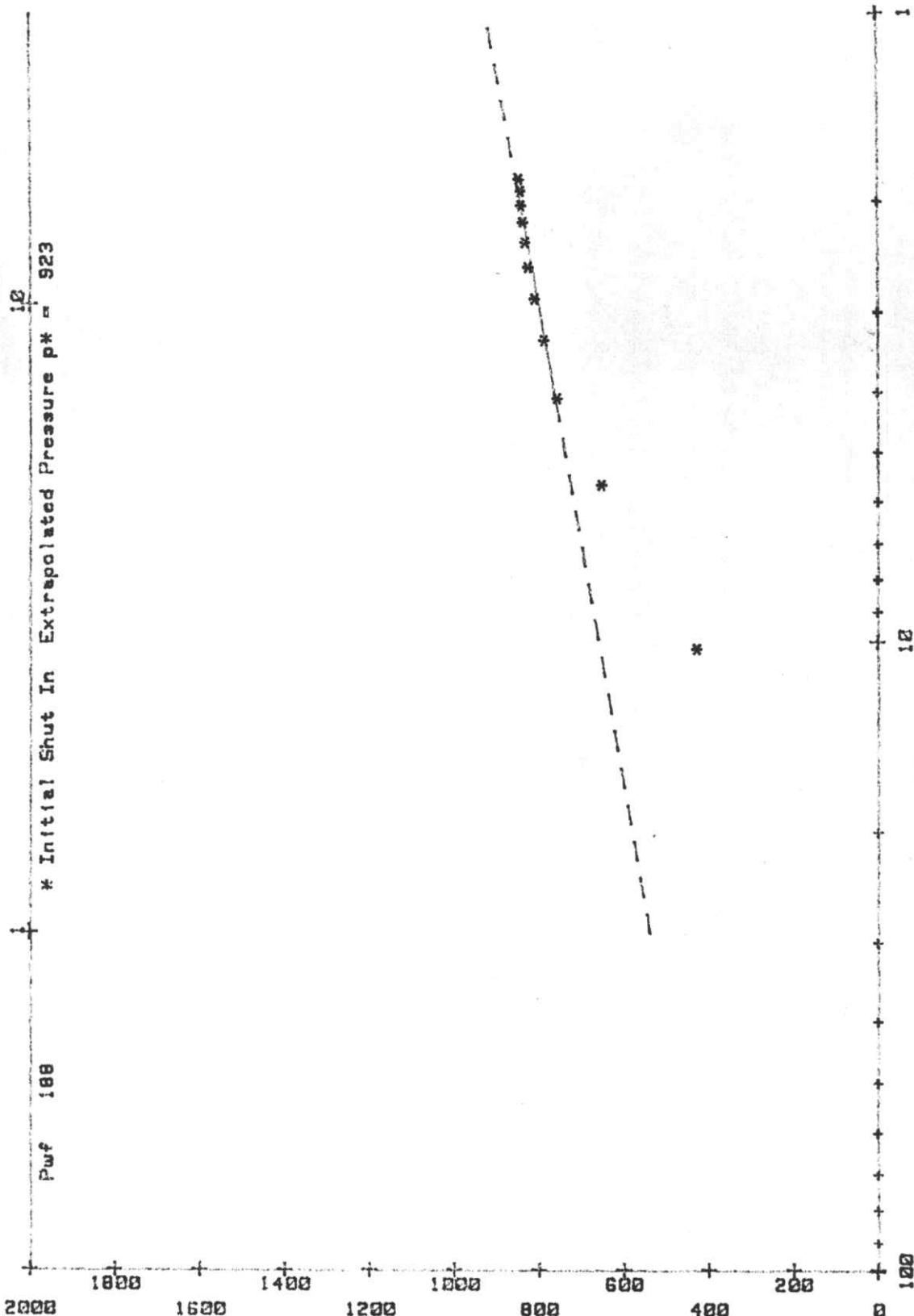
DATE : 8-11-1991

LOCATION : C-S/2-SW-SW 9-10S-31W

Pwf 180 * Initial Shut In Extrapolated Pressure p* = 923

PRESSURE (CORRECTED, PSI)

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



SUPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

COMPANY : NATIONAL PET.RESERVES
 WELL NAME : ROBBEN #1
 LOCATION : C-S/2-SW-SW 9-10S-31W
 STATE & COUNTY : KANSAS, THOMAS
 DATE OF TEST : 8-11-1991
 TEST INT. KB : 4484 to 4620
 TOTAL INTERVAL (ft) K.B. : 136.00
 ELEV.(GR) : 3021 (KB) : 3026
 FIELD :

ELEMENT SERIAL NO. : 906
 LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG
Refer. depth :	4614.0 ft-kb		
-10:43 END FLOW	0.00	0.00	187.95
	3.00	10.33	428.16
	6.00	5.67	651.67
	9.00	4.11	756.17
	12.00	3.33	786.65
	15.00	2.87	809.14
	18.00	2.56	823.66
	21.00	2.33	830.19
	24.00	2.17	835.99
	27.00	2.04	839.62
	30.00	1.93	841.07
	33.00	1.85	844.70
-11:16 1ST SHUT-IN	0.00	0.00	844.70

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

SUPERIOR TESTERS ENTERPRISES INC.

DATA SUMMARY

COMPANY : NATIONAL PET.RESERVES	WELL NAME : ROBBEN #1
DATE OF TEST : 8-11-1991	LOCATION : C-S/2-SW-SW 9-10S-31W
DST. NO : 6	SHUT-IN PERIOD : 1

INTERPRETIVE DATA (OIL)

EXTRAPOLATED RESERVOIR PRESSURE (psi):	923.00
Slope of Build-up Curve (psi/log cycle):	262.16
Effective Producing Time (min):	28.00

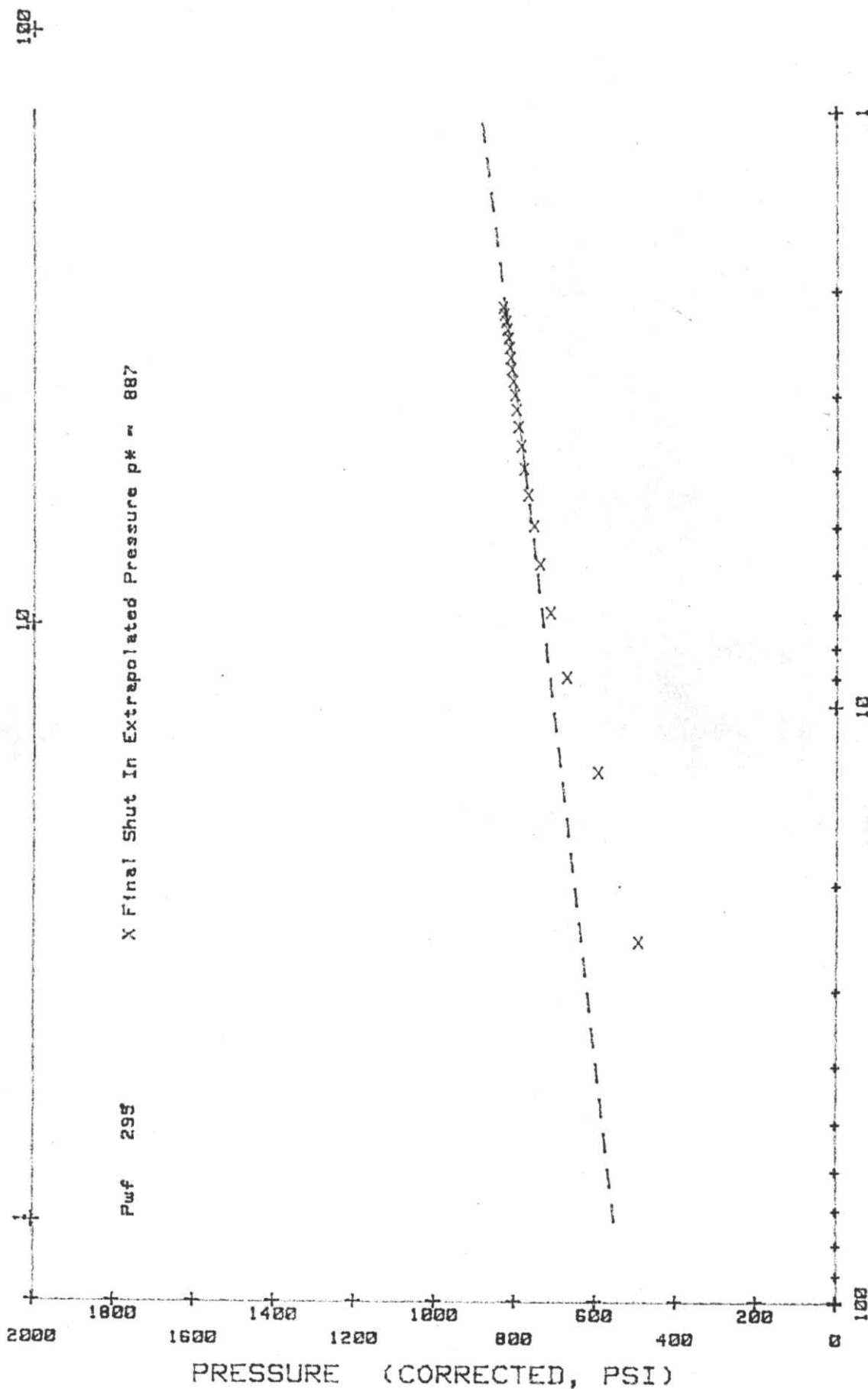
INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

GAUGE # : 906

DATE : 8-11-1991

LOCATION : C-S/2-SW-SW 9-10S-31W

Pwf 293 X Final Shut In Extrapolated Pressure p* = 887



TIME (MINUTES) : (T+dt)/dt - (Semi-log scale)

SUPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

COMPANY : NATIONAL PET.RESERVES
WELL NAME : ROBBEN #1
LOCATION : C-8/2-SW-SW 9-10S-31W
STATE & COUNTY : KANSAS, THOMAS
DATE OF TEST : 8-11-1991
TEST INT. KB : 4484 to 4620
TOTAL INTERVAL (ft) K.B. : 136.00
ELEV.(GR) : 3021 (KB) : 3026
FIELD :

ELEMENT SERIAL NO. : 906
LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES ----- CORR PSIG
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Refer. depth : 4614.0 ft-kb

-12:00 END FLOW	0.00	0.00	294.63
	3.00	25.00	492.02
	6.00	13.00	592.89
	9.00	9.00	671.26
	12.00	7.00	712.63
	15.00	5.80	738.75
	18.00	5.00	753.99
	21.00	4.43	768.51
	24.00	4.00	778.66
	27.00	3.67	785.92
	30.00	3.40	793.18
	33.00	3.18	798.26
	36.00	3.00	801.89
	39.00	2.85	806.24
	42.00	2.71	809.87
	45.00	2.60	812.77
	48.00	2.50	814.95
	51.00	2.41	817.85
	54.00	2.33	820.75
	57.00	2.26	823.66
	60.00	2.20	828.01
	63.00	2.14	830.91
-1:03 2ND SHUT-IN	0.00	0.00	830.91

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

SUPERIOR TESTERS ENTERPRISES INC.

DATA SUMMARY

COMPANY : NATIONAL PET.RESERVES WELL NAME : ROBBEN #1
 DATE OF TEST : 8-11-1991 LOCATION : C-S/2-SW-SW 9-10S-31W
 DST. NO : 6 SHUT-IN PERIOD : 2

INTERPRETIVE DATA (OIL)

TRANSMISSIBILITY

Oil (md.ft/cp): 68.51
 Gas (md.ft/cp): 0.00

EFFECTIVE PERMEABILITY

Oil (md): 6.08
 Gas (md): 0.00

TOTAL MOBILITY (md/cp): 8.04

TOTAL COMPRESSIBILITY (psi-1): 7.86E-06

ESTIMATED DAMAGE RATIO: 73

CALCULATED DAMAGE RATIO: 72

Reservoir Temperature (F): 124.00

Formation Porosity : 18

Formation Thickness (ft): 10.00

Wellbore Radius (in): 3.94

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

Calculated Skin Factor : -1.47

PRODUCTION WITH DAMAGE REMOVED (bbl/D): 75.70

PRODUCTIVITY INDEX (bbl/psi): 13

Final Flow Pressure (psi): 295.00

APPROXIMATE RADIUS OF INVESTIGATION (ft): 84.26

Total Flowing Time (min): 72.00

EXTRAPOLATED RESERVOIR PRESSURE (psi): 887.00

Slope of Build-up Curve (psi/log cycle): 179.67

Effective Producing Time (min): 72.00

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.