Superior Testers Enterprises, Inc.

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

Date 3 11 90 Location 35-16 29 Elevation 2779 KB County LANE

Company NATIONAL PETROLEUM Reserves INC Number of Copies 5

Charts Mailed to 260 N Rock Rd. Wichita Ks 67206

Drilling Contractor Emphasis oil ope

Length Drill Pipe 3160 I.D. Drill Pipe 3.80 Tool Joint Size 4½XH

Length Weight Pipe — I.D. Weight Pipe — Tool Joint Size —

Length Drill Collars 30 I.D. Drill Collars 2.25 Tool Joint Size 4½ XH

Top Packer Depth 4202 Bottom Packer Depth 4207 Number of Packers Tap Packer Size 6¾

TESTED FROM 4207 TO 4235 ANCHOR LENGTH 28 TOTAL DEPTH 4235 Hole Size 7⅞

LEASE & WELL NO. Gill #3 FORMATION TESTED Lansing TEST NO. 1

Mud Weight 9.3 Viscosity 46 Water Loss 9. Chlorides - Pits — D.S.T. —

Maximum Temp. 115 °F Initial Hydrostatic Pressure (A) 2144 P.S.I. Final Hydrostatic Pressure (H) 2125 P.S.I.

Tool Open I.F.P. from 120 m to 135 m 15 min

Tool Closed I.C.I.P. from 135 m to 150 m 15 min

Tool Open F.F.P. from 150 m to 205 m 15 min

Tool Closed F.C.I.P. from 205 m to 220 m 15 min

from [B]	45	P.S.I. to [C]	45 P.S.I.
[D]	311		P.S.I.
from [E]	54	P.S.I. to [F]	54 P.S.I
[G]	283		P.S.I.

Initial Blow WEAK BLOW ½" INTO WATER

Final Blow WEAK BLOW OF TOP OF WATER FLUSH TOOL NO BLOW

Total Feet Recovered 30' 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

Remarks —

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

Top Recorder No. 5467 Clock No. 27536 Depth 4229 Cir. Sub — Sampler —

Bottom Recorder No. 13205 Clock No. 23917 Depth 4232 Insurance —

Price of Job —

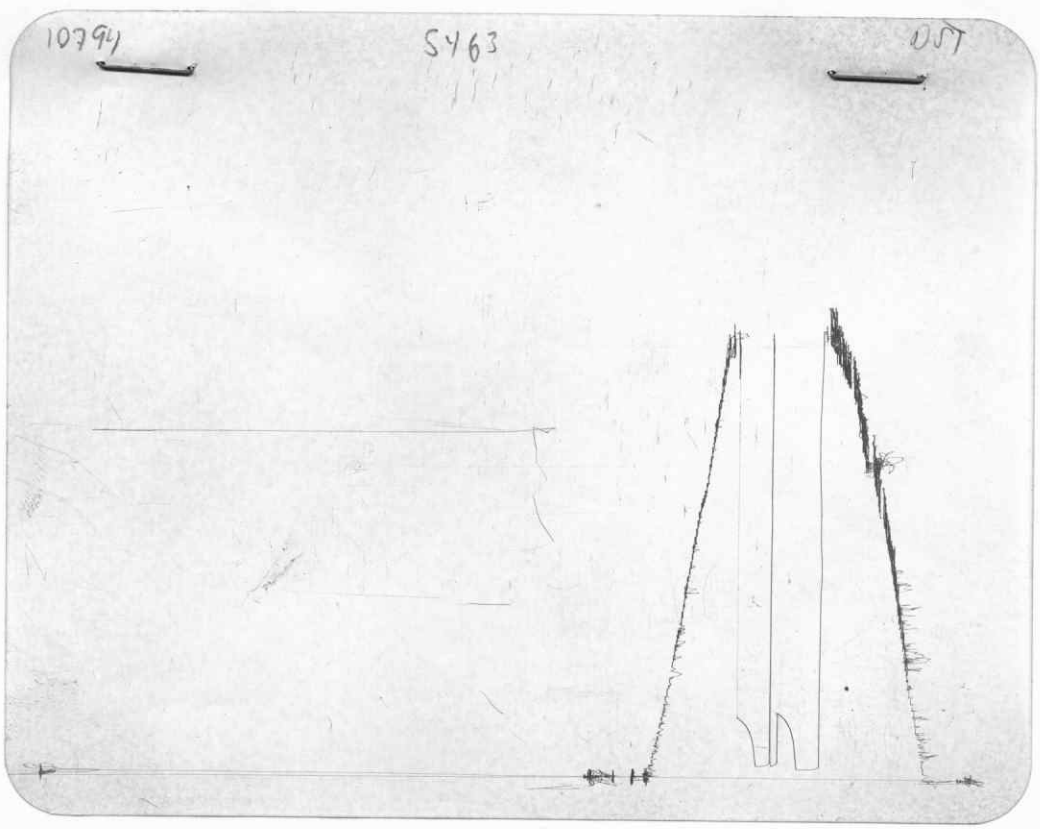
Tool Operator PAT STEVENSON

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, 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.

No 10794

COMPANY National Petroleum Res. LEASE- WELL NO Gill #3 SEC 35 TWP 16 RGE. 29 TEST NO. 1 DATE 3-11-1990



This is an actual photograph of recorder chart.

POINT		PRESSURE FIELD READING	PRESSURE OFFICE READING	
(A)	Initial Hydrostatic Mud	2144	2113	P.S.I.
(B)	First Initial Flow Pressure	45	50	P.S.I.
(C)	First Final Flow Pressure	45	40	P.S.I.
(D)	Initial Closed-in Pressure	311	295	P.S.I.
(E)	Second Initial Flow Pressure	54	72	P.S.I.
(F)	Second Final Flow Pressure	54	52	P.S.I.
(G)	Final Closed-in Pressure	283	274	P.S.I.
(H)	Final Hydrostatic Mud	2125	2095	P.S.I.

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : NATIONAL PETROLEUM RES. WELL NAME : GILL #3
ADDRESS : 260 N.ROCK ROAD,WICHITA LOCATION : 35-16-29
STATE & COUNTY : KANSAS,LANE FIELD :
ELEV.(GR) : 2774 (KB) : 2779 TEST DATE : 3-11-90

EQUIPMENT AND HOLE DATA

FORMATION TESTED : LANSING
TEST INT. KB : 4207 to 4235
ANCHOR LENGTH(ft) : 28
TYPE OF TEST : Conventional
TOTAL DEPTH(ft-kb) : 4235
MAIN HOLE SIZE(in) : 7 7/8
MUD WEIGHT : 9.3
MUD VISCOSITY : 46
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) : 115

DRILL PIPE LENGTH(ft) : 3160
DRILL PIPE O.D.(in) : 3.82
WEIGHT PIPE LENGTH(ft) :
WEIGHT PIPE ID : 2.75
DRILL COLLAR LENGTH(ft) : 30
DRILL COLLAR I.D.(in) : 2.259
TOP PACKER DEPTH(kb) : 4202
BOTTOM PACKER DEPTH(kb) : 4207
DUAL PACKERS :
PACKER SIZE(in) : 6 3/4
PACKER HOLD : Yes
TOOL PLUG : No
REVERSED OUT : No
TEST TICKET NUMBER : 10794

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

RECOVERY

Recovered 30 feet of DRILLING MUD

REMARKS :

WITNESSED BY : DAN DEBOER TOOL OPERATOR : PAT STEVENSON

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : NATIONAL PETROLEUM RES. WELL NAME : GILL #3
DATE OF TEST : 3-11-90 LOCATION : 35-16-29
DEPTH : 4229.0 SERIAL NO. : 5463

COMMENTS	TIME min	DEFL in	PRESSURE PSIG CALC	CORR	CORRECTED
TEST NO.:1					
Depth : 4229.0 ft-kb					
-1ST HYDROSTATIC	0.0	2.297	2115.53	-1.64	2113.89
-1:20 1ST FLOW	0.0	.055	48.25	2.21	50.46
- 1:25	5.0	.044	38.10	2.26	40.37
- 1:31	11.0	.044	38.10	2.26	40.37
- 1:37	17.0	.044	38.10	2.26	40.37
-1:37 END FLOW	0.0	.044	38.10	2.26	40.37
- 1:42	5.0	.247	225.28	1.32	226.61
- 1:48	11.0	.300	274.15	1.07	275.23
- 1:52	15.0	.322	294.44	.97	295.41
-1:52 1ST SHUT-IN	0.0	.322	294.44	.97	295.41
-1:52 2ND FLOW	0.0	.079	70.38	2.10	72.48
- 1:57	5.0	.062	54.70	2.18	56.88
- 2:03	11.0	.062	54.70	2.18	56.88
- 2:08	16.0	.057	50.09	2.20	52.29
-2:08 END FLOW	0.0	.057	50.09	2.20	52.29
- 2:13	5.0	.232	211.45	1.39	212.84
- 2:19	11.0	.278	253.87	1.18	255.05
- 2:23	15.0	.299	273.23	1.08	274.31
--2:28 2ND SHUT-IN	0.0	.299	273.23	1.08	274.31
- -2:28	0.0	2.207	2032.54	-1.99	2030.56
-2ND HYDROSTATIC	0.0	2.277	2097.09	-1.72	2095.37

Superior Testers Enterprises, Inc.

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(316) 792-6902

Date 3 11 90 Location 35 16 29 Elevation 2779 KB County LANE

Company NATIONAL Petroleum Reserves Inc. Number of Copies 5

Charts Mailed to 250 N Rock Rd Wichita KS

Drilling Contractor Emphasis oil ope

Length Drill Pipe 4191 I.D. Drill Pipe 3.80 Tool Joint Size 4½ XH

Length Weight Pipe — I.D. Weight Pipe — Tool Joint Size

Length Drill Collars 30 I.D. Drill Collars 2.25 Tool Joint Size 4½ XH

Top Packer Depth 4233 Bottom Packer Depth 4238 Number of Packers Two Packer Size 6¾

TESTED FROM 4238 TO 4260 ANCHOR LENGTH 22 TOTAL DEPTH 4260 Hole Size 7⅞

LEASE & WELL NO. Gill #1 FORMATION TESTED Upper L ZONE TEST NO. 2

Mud Weight 9.4 Viscosity 51 Water Loss 10.2 Chlorides - Pits 4,000 D.S.T.

Maximum Temp. 111 °F Initial Hydrostatic Pressure (A) 2144 P.S.I. Final Hydrostatic Pressure (H) 2116 P.S.I.

Tool Open I.F.P. from 100 m to 115 m 15 min

Tool Closed I.C.I.P. from 115 m to 130 m 15 min

Tool Open F.F.P. from 130 m to 145 m 15 min

Tool Closed F.C.I.P. from 145 m to 200 m 15 min

from [B] 36 P.S.I. to [C] 36 P.S.I.

[D] 64 P.S.I.

from [E] 54 P.S.I. to [F] 54 P.S.I

[G] 64 P.S.I.

Initial Blow WEAK BLOW OF TOP

Final Blow WEAK BLOW OF TOP FLUSH TOOL NO HELP

Total Feet Recovered 20' SLIGHTLY OIL SPOTTED MUD SHOW OF CLEAN OIL ON TOP Gravity of Oil ____ Corrected

____ Feet of LESS THAN 2% 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

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

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

Remarks

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

Top Recorder No. 5463 Clock No. 27836 Depth 4254 Cir. Sub ____ Sampler —

Bottom Recorder No. 5463 Clock No. 23917 Depth 4257 Insurance ____

Price of Job ____

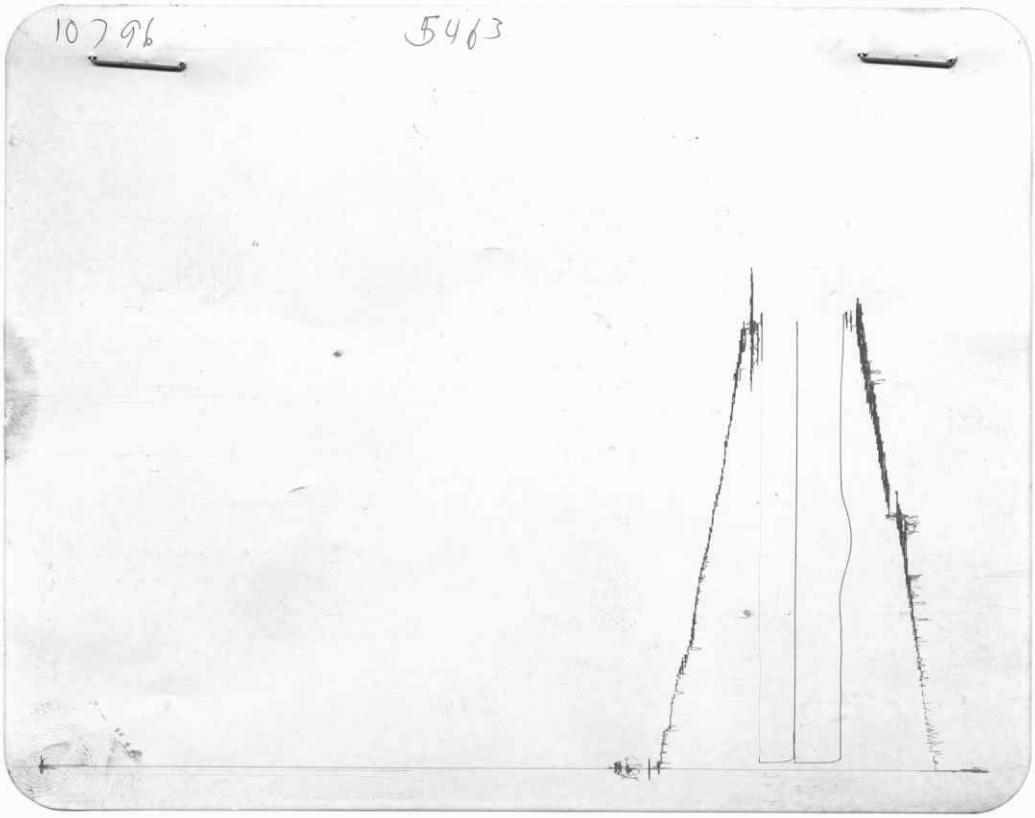
Tool Operator PAT

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, 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.

No 10795

COMPANY National Petroleum Res. LEASE-WELL NO Gill #3 SEC 35 TWP 16 RGE. 29 TEST NO 2 DATE 3-11-1990



This is an actual photograph of recorder chart.

POINT		PRESSURE FIELD READING	PRESSURE OFFICE READING	
(A)	Initial Hydrostatic Mud	2144	2148	P.S.I.
(B)	First Initial Flow Pressure	36	65	P.S.I.
(C)	First Final Flow Pressure	36	49	P.S.I.
(D)	Initial Closed-In Pressure	64	61	P.S.I.
(E)	Second Initial Flow Pressure	54	54	P.S.I.
(F)	Second Final Flow Pressure	54	54	P.S.I.
(G)	Final Closed-In Pressure	64	60	P.S.I.
(H)	Final Hydrostatic Mud	2116	2114	P.S.I.

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : NATIONAL PETROLEUM RES.
ADDRESS : 260 N.ROCK ROAD,WICHITA
STATE & COUNTY : KANSAS,LANE
ELEV.(GR) : 2774 (KB) : 2779

WELL NAME : GILL #3
LOCATION : 35-16-29
FIELD :
TEST DATE : 3-11-90

EQUIPMENT AND HOLE DATA

FORMATION TESTED : UPPER L ZONE
TEST INT. KB : 4238 to 4260
ANCHOR LENGTH(ft) : 22
TYPE OF TEST : Conventional
TOTAL DEPTH(ft-kb) : 4260
MAIN HOLE SIZE(in) : 7 7/8
MUD WEIGHT : 9.4
MUD VISCOSITY : 51
MUD CHLORIDES : 4000
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) : 111

DRILL PIPE LENGTH(ft) : 4191
DRILL PIPE O.D.(in) : 3.82
WEIGHT PIPE LENGTH(ft) :
WEIGHT PIPE ID : 2.75
DRILL COLLAR LENGTH(ft) : 30
DRILL COLLAR I.D.(in) : 2.259
TOP PACKER DEPTH(kb) : 4238
BOTTOM PACKER DEPTH(kb) : 4260
DUAL PACKERS :
PACKER SIZE(in) : 6 3/4
PACKER HOLD : Yes
TOOL PLUG : No
REVERSED OUT : No
TEST TICKET NUMBER : 10795

EXTRA EQUIPMENT :

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

SURFACE BLOW

1st Opening : VERY WEAK BLOW
2nd Opening : VERY WEAK BLOW

RECOVERY

Recovered 20 feet of OIL SPOTTED MUD SHOW OF CLEAN OIL ON TOP

REMARKS :

WITNESSED BY : DAN DEBOER TOOL OPERATOR : PAT STEVENSON

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : NATIONAL PETROLEUM RES. WELL NAME : GILL #3
DATE OF TEST : 3-11-90 LOCATION : 35-16-29
DEPTH : 4254.0 SERIAL NO. : 5463

COMMENTS	TIME min	DEFL in	PRESSURE PSIG CALC	CORR	CORRECTED
TEST NO.:2					
Depth : 4254.0 ft-kb					
-1ST HYDROSTATIC	0.0	2.334	2149.64	-1.50	2148.15
-1:00 1ST FLOW	0.0	.071	63.00	2.14	65.14
- 1:05	5.0	.060	52.86	2.19	55.05
- 1:10	10.0	.055	48.25	2.21	50.46
- 1:15	15.0	.053	46.40	2.22	48.62
-1:15 END FLOW	0.0	.053	46.40	2.22	48.62
- 1:20	5.0	.053	46.40	2.22	48.62
- 1:25	10.0	.055	48.25	2.21	50.46
- 1:31	16.0	.066	58.39	2.16	60.55
-1:31 1ST SHUT-IN	0.0	.066	58.39	2.16	60.55
-1:31 2ND FLOW	0.0	.059	51.94	2.19	54.13
- 1:36	5.0	.059	51.94	2.19	54.13
- 1:41	10.0	.059	51.94	2.19	54.13
- 1:46	15.0	.059	51.94	2.19	54.13
-1:46 END FLOW	0.0	.059	51.94	2.19	54.13
- 1:51	5.0	.059	51.94	2.19	54.13
- 1:56	10.0	.059	51.94	2.19	54.13
- 2:03	17.0	.065	57.47	2.17	59.63
-2:03 2ND SHUT-IN	0.0	.065	57.47	2.17	59.63
-2ND HYDROSTATIC	0.0	2.298	2116.45	-1.64	2114.81

Superior Testers Enterprises, Inc.

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(316) 792-6902

Date 3 12 90 Location 35 16 29 Elevation 2779 KD County LANE

Company NATIONAL PETROLEUM RESERVES, INC Number of Copies 5

Charts Mailed to 260 Rock Rd WICHITA KS 67206

Drilling Contractor Emphasis oil operations

Length Drill Pipe 4222 I.D. Drill Pipe 3.80 Tool Joint Size 4½XH

Length Weight Pipe — I.D. Weight Pipe _____ Tool Joint Size _____

Length Drill Collars 30 I.D. Drill Collars 2.25 Tool Joint Size 4½XH

Top Packer Depth 4258 Bottom Packer Depth 4263 Number of Packers Two Packer Size 6¾

TESTED FROM 4263 TO 4281 ANCHOR LENGTH 18 TOTAL DEPTH 4281 Hole Size 7⅞

LEASE & WELL NO. 6,11 #J FORMATION TESTED Lower L TEST NO. 3

Mud Weight 9.4 Viscosity 51 Water Loss 19.2 Chlorides - Pits 4000 D.S.T. _____

Maximum Temp. 116 °F Initial Hydrostatic Pressure (A) 2144 P.S.I. Final Hydrostatic Pressure (H) 2116 P.S.I.

Tool Open I.F.P. from 1215 m to 1230 m 15 min

Tool Closed I.C.I.P. from 1230 m to 1245 m 15 min

Tool Open F.F.P. from 1245 m to 100 m 15 min

Tool Closed F.C.I.P. from 100 m to 115 m 15 min

from [B]	45 P.S.I.	to [C]	36 P.S.I.
[D]	36 P.S.I.		
from [E]	36 P.S.I.	to [F]	36 P.S.I
[G]	36 P.S.I.		

Initial Blow Weak Blow off Top of Bucket Dead 13"

Final Blow NO Blow Flush Tool Weak Blow 3" Died

Total Feet Recovered _____ 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 Yes Safety Joint Yes Extra Packer — Straddle ✓ Hook Wall —

Top Recorder No. 5467 Clock No. 27836 Depth 4275 Cir. Sub _____ Sampler —

Bottom Recorder No. 13208 Clock No. 23917 Depth 4278 Insurance _____

Price of Job _____

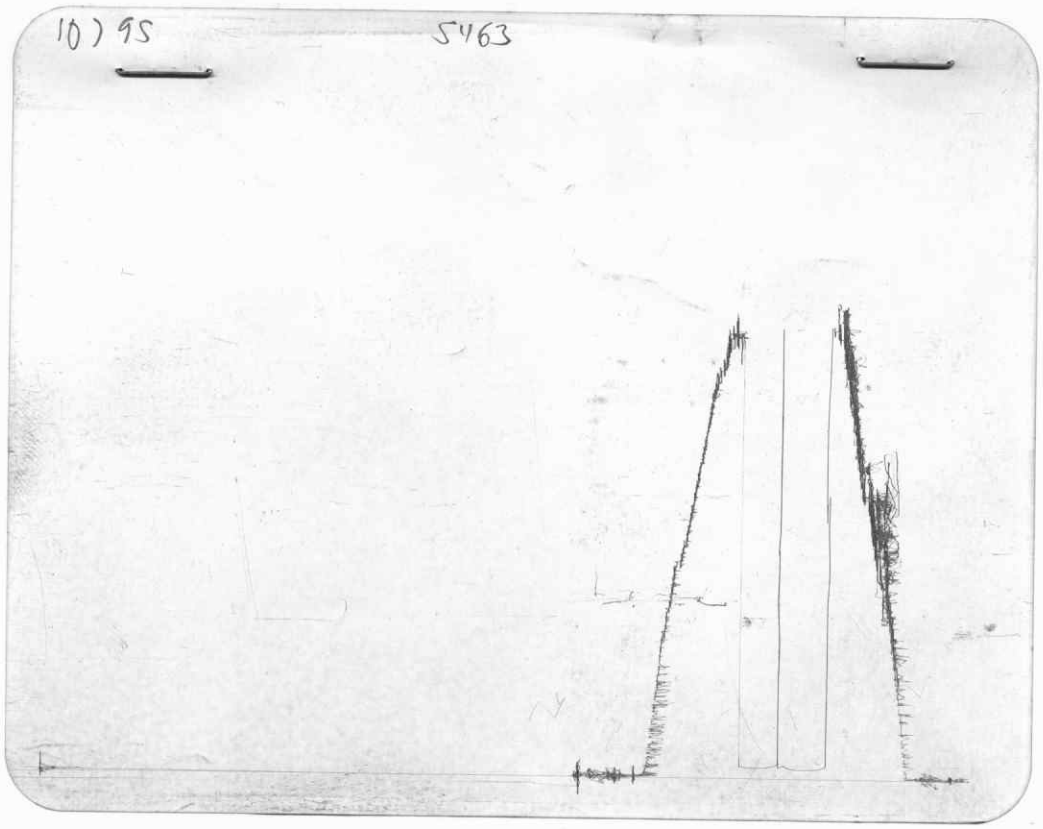
Tool Operator PAT STEVENS

Approved By _____

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№ 10796

COMPANY National Petroleum Res. LEASE-WELL NO Gill #3 SEC 35 TWP 16 RGE 29 TEST NO 3 DATE 3-12-1990



This is an actual photograph of recorder chart.

POINT		PRESSURE FIELD READING	PRESSURE OFFICE READING	
(A)	Initial Hydrostatic Mud	2144	2150	P.S.I.
(B)	First Initial Flow Pressure	45	59	P.S.I.
(C)	First Final Flow Pressure	36	40	P.S.I.
(D)	Initial Closed-In Pressure	36	39	P.S.I.
(E)	Second Initial Flow Pressure	36	39	P.S.I.
(F)	Second Final Flow Pressure	36	39	P.S.I.
(G)	Final Closed-In Pressure	36	39	P.S.I.
(H)	Final Hydrostatic Mud	2116	2131	P.S.I.

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : NATIONAL PETROLEUM RES. WELL NAME : GILL #3
ADDRESS : 260 N.ROCK ROAD,WICHITA LOCATION : 35-16-29
STATE & COUNTY : KANSAS,LANE FIELD :
ELEV.(GR) : 2774 (KB) : 2779 TEST DATE : 3-12-1990

EQUIPMENT AND HOLE DATA

FORMATION TESTED : LOWER L ZONE DRILL PIPE LENGTH(ft) : 4222
TEST INT. KB : 4263 to 4281 DRILL PIPE O.D.(in) : 3.82
ANCHOR LENGTH(ft) : 18 WEIGHT PIPE LENGTH(ft) :
TYPE OF TEST : Conventional WEIGHT PIPE ID : 2.75
TOTAL DEPTH(ft-kb) : 4281 DRILL COLLAR LENGTH(ft) : 30
MAIN HOLE SIZE(in) : 7 7/8 DRILL COLLAR I.D.(in) : 2.259
MUD WEIGHT : 9.1 TOP PACKER DEPTH(kb) : 4258
MUD VISCOSITY : 51 BOTTOM PACKER DEPTH(kb) : 4263
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 : 10796

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 13 MINUTES
2nd Opening : NO BLOW

RECOVERY

Recovered 1 foot of Drilling Mud

REMARKS :

WITNESSED BY : DAN DEBOER TOOL OPERATOR : PAT STEVENSON

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : NATIONAL PETROLEUM RES. WELL NAME : GILL #3
DATE OF TEST : 3-12-1990 LOCATION : 35-16-29
DEPTH : 4275.0 SERIAL NO. : 5463

COMMENTS	TIME min	DEFL in	PRESSURE PSIG CALC	CORR	CORRECTED
TEST NO.:3					
Depth : 4275.0 ft-kb					
-1ST HYDROSTATIC	0.0	2.337	2152.41	-1.49	2150.93
-12:15 1ST FLOW	0.0	.065	57.47	2.17	59.63
- 12:20	5.0	.052	45.48	2.23	47.71
- 12:25	10.0	.046	39.95	2.25	42.20
- 12:30	15.0	.044	38.10	2.26	40.37
-12:30 END FLOW	0.0	.044	38.10	2.26	40.37
- 12:35	5.0	.044	38.10	2.26	40.37
- 12:40	10.0	.044	38.10	2.26	40.37
- 12:45	15.0	.044	38.10	2.26	40.37
-12:45 1ST SHUT-IN	0.0	.044	38.10	2.26	40.37
-12:45 2ND FLOW	0.0	.043	37.18	2.27	39.45
- 12:50	5.0	.043	37.18	2.27	39.45
- 12:55	10.0	.044	38.10	2.26	40.37
- 13:00	15.0	.042	36.26	2.27	38.53
-1:00 END FLOW	0.0	.042	36.26	2.27	38.53
- 1:05	5.0	.042	36.26	2.27	38.53
- 1:10	10.0	.042	36.26	2.27	38.53
- 1:15	15.0	.042	36.26	2.27	38.53
-1:15 2ND SHUT-IN	0.0	.042	36.26	2.27	38.53
-2ND HYDROSTATIC	0.0	2.316	2133.05	-1.57	2131.48

Superior Testers Enterprises, Inc.

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

Date 3 12 90 Location 35-16-29 Elevation 2719 KB County LANE

Company NATIONAL PETROLEUM RESERVES INC Number of Copies 5

Charts Mailed to 260 Rock Rd. WICHITA KANSAS 67206

Drilling Contractor Emphasis oil ops

Length Drill Pipe 4248 I.D. Drill Pipe 380 Tool Joint Size 4½XH

Length Weight Pipe — I.D. Weight Pipe — Tool Joint Size —

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

Top Packer Depth 4280 Bottom Packer Depth 4285 Number of Packers Two Packer Size 6¾

TESTED FROM 4285 TO 4400 ANCHOR LENGTH 115 TOTAL DEPTH 4400 Hole Size 7⅞

LEASE & WELL NO. Gill #3 FORMATION TESTED B KC-LEMAPAN-MARMATON ALTAMOUNT TEST NO. #2

Mud Weight 9.2 Viscosity 51 Water Loss 8.0 Chlorides - Pits 3000 D.S.T.

Maximum Temp. 114 °F Initial Hydrostatic Pressure (A) 2181 P.S.I. Final Hydrostatic Pressure (H) 2163 P.S.I.

Tool Open I.F.P. from 900 m to 930 m 30 min

Tool Closed I.C.I.P. from 930 m to 1015 m 45 min

Tool Open F.F.P. from 1015 m to 1045 m 30 min

Tool Closed F.C.I.P. from 1045 m to 1130 m 45 min

from [B]	128 P.S.I.	to [C]	293 P.S.I.
[D]	320 P.S.I.		
from [E]	320 P.S.I.	to [F]	320 P.S.I
[G]	320 P.S.I.		

Initial Blow STRONG BLOW OFF BOTTOM 1¼

Final Blow WEAK BLOW BUILDING SLOWLY 2½" INTO WATER

Total Feet Recovered 1440 GAS IN PIP 720 CLEAN GASSY OIL Gravity of Oil 39 Corrected

220 Feet of SLIGHTLY MUD CUT GASSY OIL	43 %Gas	56 %Oil	1 %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 — Straddle — Hook Wall —

Top Recorder No. 5463 Clock No. 27836 Depth 4494 Cir. Sub Sampler

Bottom Recorder No. 1328 Clock No. 23917 Depth 4497 Insurance

Price of Job

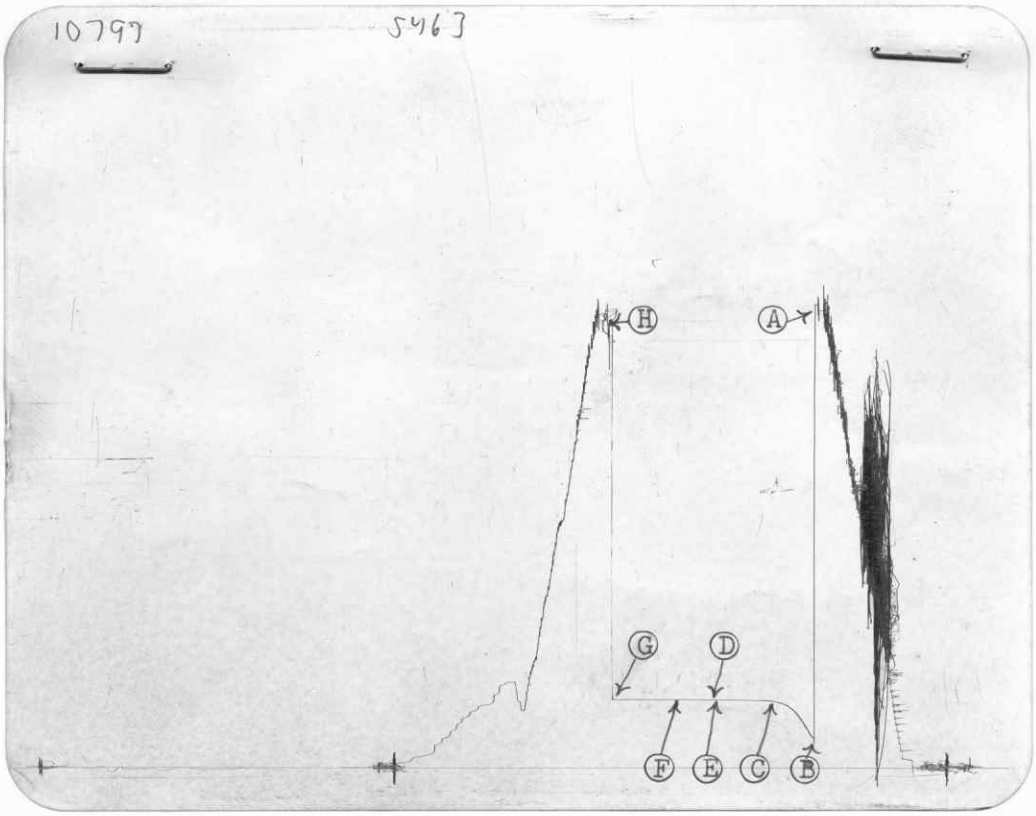
Tool Operator PAT STEVENSON

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, 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.

No 10797

COMPANY National Petroleum Res. LEASE- WELL NO Gill #3 SEC 35 TWP 16 RGE. 29 TEST NO. 4 DATE 3-12-1990



This is an actual photograph of recorder chart.

POINT		PRESSURE FIELD READING	PRESSURE OFFICE READING	
(A)	Initial Hydrostatic Mud	2181	2189	P.S.I.
(B)	First Initial Flow Pressure	128	118	P.S.I.
(C)	First Final Flow Pressure	293	310	P.S.I.
(D)	Initial Closed-In Pressure	320	319	P.S.I.
(E)	Second Initial Flow Pressure	318	320	P.S.I.
(F)	Second Final Flow Pressure	320	320	P.S.I.
(G)	Final Closed-In Pressure	320	320	P.S.I.
(H)	Final Hydrostatic Mud	2161	2135	P.S.I.

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : NATIONAL-PETROLEUM RES.
ADDRESS : 260 N.ROCK ROAD,WICHITA
STATE & COUNTY : KANSAS,LANE
ELEV.(GR) : 2774 (KB) : 2779

WELL NAME : GILL #3
LOCATION : 35-16-29
FIELD :
TEST DATE : 3-12-1990

EQUIPMENT AND HOLE DATA

FORMATION TESTED : BKC-MARMATON
TEST INT. KB : 4285 to 4400
ANCHOR LENGTH(ft) : 115
TYPE OF TEST : Conventional
TOTAL DEPTH(ft-kb) : 4400
MAIN HOLE SIZE(in) : 7 7/8
MUD WEIGHT : 9.2
MUD VISCOSITY : 51
MUD CHLORIDES : 3000
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) : 114

DRILL PIPE LENGTH(ft) : 4248
DRILL PIPE O.D.(in) : 3.82
WEIGHT PIPE LENGTH(ft) :
WEIGHT PIPE ID : 2.75
DRILL COLLAR LENGTH(ft) : 30
DRILL COLLAR I.D.(in) : 2.259
TOP PACKER DEPTH(kb) : 4280
BOTTOM PACKER DEPTH(kb) : 4285
DUAL PACKERS :
PACKER SIZE(in) : 6 3/4
PACKER HOLD : Yes
TOOL PLUG : No
REVERSED OUT : No
TEST TICKET NUMBER : 10797

EXTRA EQUIPMENT :

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

SURFACE BLOW

1st Opening : STRONG BLOW BOTTOM OF THE BUCKET IN 1 MINUTE
2nd Opening : WEAK BLOW BUILT TO 2 1/2 INCHES INTO THE WATER

RECOVERY

Recovered 720 feet of SLIGHTLY MUD CUT GASSY OIL 43%GAS 56%OIL 1%MUD
Recovered 1440 feet of GAS IN THE PIPE

REMARKS :

GRAVITY ON THE OIL RECOVERED WAS 39 CORRECTED

WITNESSED BY : DAN DEBOER TOOL OPERATOR : PAT STEVENSON

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

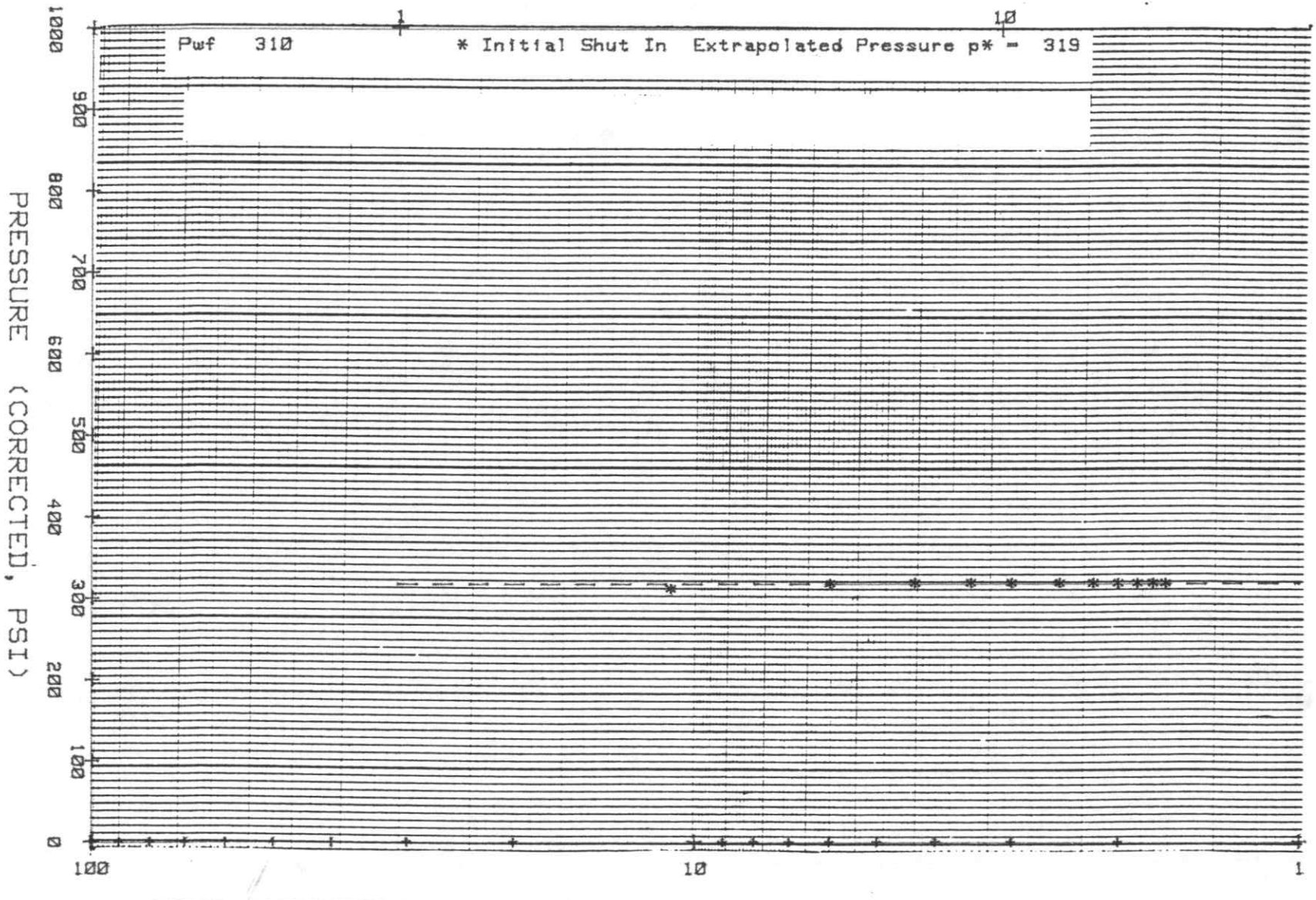
SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : NATIONAL PETROLEUM RES. WELL NAME : GILL #3
DATE OF TEST : 3-12-1990 LOCATION : 35-16-29
DEPTH : 0.0 SERIAL NO. : 5463

COMMENTS	TIME min	DEFL in	PRESSURE PSIG CALC	CORR	CORRECTED
TEST NO.: 4					
Depth : 4394.0 ft-kb					
-1ST HYDROSTATIC	0.0	2.379	2191.14	-1.32	2189.81
-9:00 1ST FLOW	0.0	.129	116.48	1.87	118.35
- 9:05	5.0	.200	181.95	1.54	183.49
- 9:10	10.0	.254	231.74	1.29	233.03
- 9:15	15.0	.294	268.62	1.10	269.72
- 9:20	20.0	.317	289.83	1.00	290.83
- 9:25	25.0	.332	303.66	.93	304.59
- 9:30	30.0	.338	309.19	.90	310.09
-9:30 END FLOW	0.0	.338	309.19	.90	310.09
- 9:33	3.0	.340	311.04	.89	311.93
- 9:36	6.0	.347	317.49	.86	318.35
- 9:39	9.0	.348	318.41	.85	319.27
- 9:42	12.0	.348	318.41	.85	319.27
- 9:45	15.0	.348	318.41	.85	319.27
- 9:50	20.0	.348	318.41	.85	319.27
- 9:55	25.0	.348	318.41	.85	319.27
- 10:00	30.0	.348	318.41	.85	319.27
- 10:05	35.0	.348	318.41	.85	319.27
- 10:10	40.0	.348	318.41	.85	319.27
- 10:15	45.0	.348	318.41	.85	319.27
-10:15 1ST SHUT-IN	0.0	.348	318.41	.85	319.27
-10:15 2ND FLOW	0.0	.347	317.49	.86	318.35
-10:45 END FLOW	30.0	.349	319.34	.85	320.18
- 10:50	5.0	.349	319.34	.85	320.18
- 10:55	10.0	.349	319.34	.85	320.18
- 11:00	15.0	.349	319.34	.85	320.18
- 11:05	20.0	.349	319.34	.85	320.18
- 11:10	25.0	.349	319.34	.85	320.18
- 11:15	30.0	.349	319.34	.85	320.18
- 11:20	35.0	.349	319.34	.85	320.18
- 11:25	40.0	.349	319.34	.85	320.18
- 11:28	43.0	.349	319.34	.85	320.18
-11:28 2ND SHUT-IN	0.0	.349	319.34	.85	320.18
-2ND HYDROSTATIC	0.0	2.320	2136.74	-1.55	2135.19

LOCATION : 35-16-29 DATE : 3-12-1990 GAUGE # : 5463



SUPERIOR TESTERS ENTERPRISES INC.

D A T A S U M M A R Y

COMPANY : NATIONAL PETROLEUM RES.
DATE OF TEST : 3-12-1990
DST. NO : 3

WELL NAME : GILL #3
LOCATION : 35-16-29
SHUT-IN PERIOD : 1

INTERPRETIVE DATA (OIL)

EXTRAPOLATED RESERVOIR PRESSURE (psi):	319.00
Slope of Build-up Curve (psi/log cycle):	1.16
Effective Producing Time (min):	30.00

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

SUPERIOR TESTERS ENTERPRISES INC.

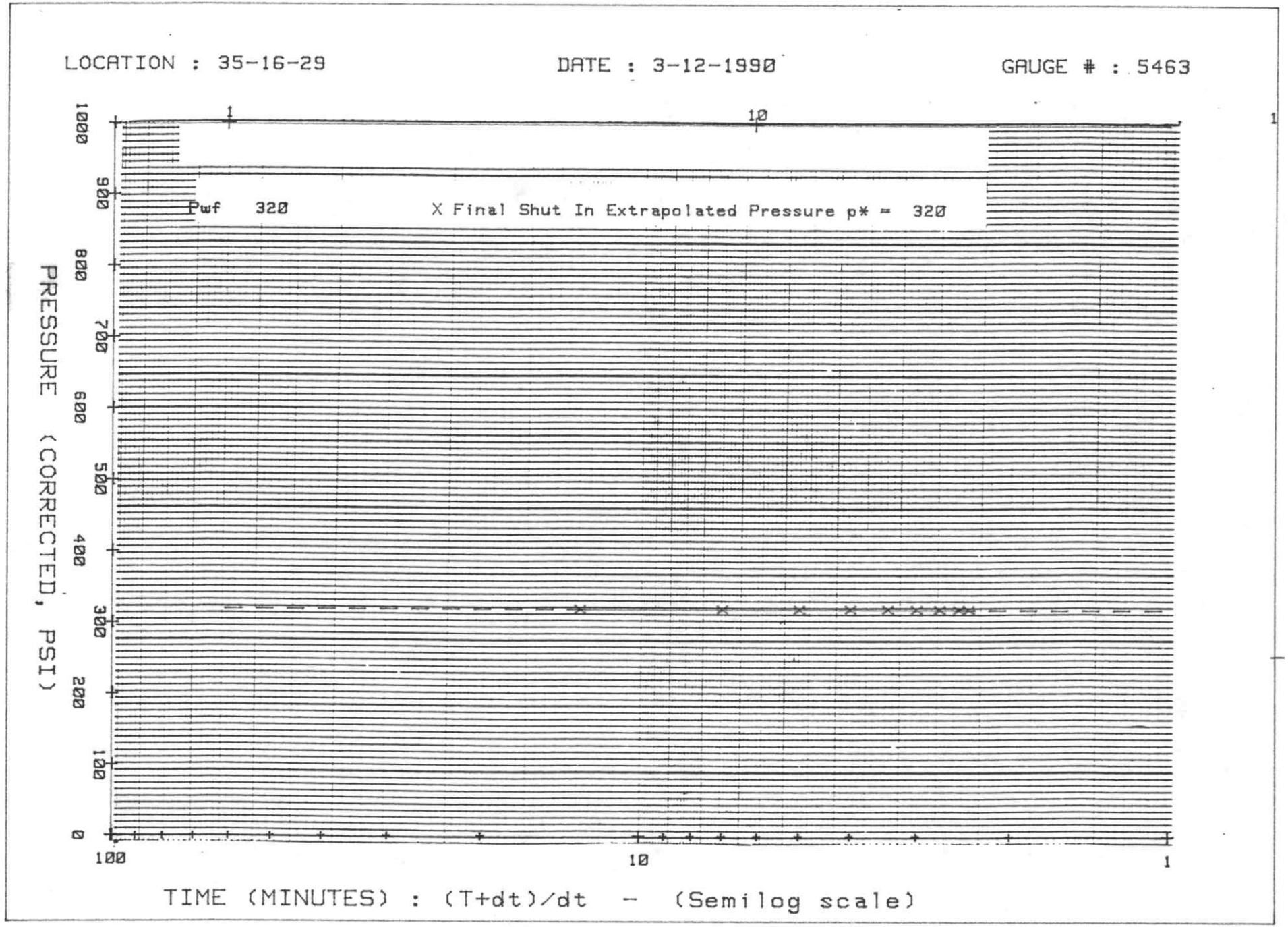
HORNER ANALYSIS

COMPANY : NATIONAL PETROLEUM RES.
WELL NAME : GILL #3
LOCATION : 35-16-29
STATE & COUNTY : KANSAS,LANE
DATE OF TEST : 3-12-1990
TEST INT. KB : 4285 to 4400
TOTAL INTERVAL (ft) K.B. : 115.00
ELEV.(GR) : 2774 (KB) : 2779
FIELD :

ELEMENT SERIAL NO. : 5463
LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	PRESSURES CORR PSIG
Refer. depth : 4394.0 ft-kb			
-9:30 END FLOW	0.00	0.00	310.09
	3.00	11.00	311.93
	6.00	6.00	318.35
	9.00	4.33	319.27
	12.00	3.50	319.27
	15.00	3.00	319.27
	20.00	2.50	319.27
	25.00	2.20	319.27
	30.00	2.00	319.27
	35.00	1.86	319.27
	40.00	1.75	319.27
	45.00	1.67	319.27
-10:15 1ST SHUT-IN	0.00	0.00	319.27

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.


LOCATION : 35-16-29
DATE : 3-12-1990
GAUGE # : 5463
1000
900
800
700
600
500
400
300
200
100
0
1
10
Pwf 320
X Final Shut In Extrapolated Pressure p* = 320
PRESSURE (CORRECTED, PSI)
100
10
1
TIME (MINUTES) : (T+dt)/dt - (Semilog scale)

SUPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

COMPANY : NATIONAL PETROLEUM RES.
WELL NAME : GILL #3
LOCATION : 35-16-29
STATE & COUNTY : KANSAS,LANE
DATE OF TEST : 3-12-1990
TEST INT. KB : 4285 to 4400
TOTAL INTERVAL (ft) K.B. : 115.00
ELEV.(GR) : 2774 (KB) : 2779
FIELD :

ELEMENT SERIAL NO. : 5463
LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	PRESSURES CORR PSIG
Refer. depth : 4394.0 ft-kb			
-10:45 END FLOW	30.00	3.00	320.18
	5.00	13.00	320.18
	10.00	7.00	320.18
	15.00	5.00	320.18
	20.00	4.00	320.18
	25.00	3.40	320.18
	30.00	3.00	320.18
	35.00	2.71	320.18
	40.00	2.50	320.18
	43.00	2.40	320.18
-11:28 2ND SHUT-IN	0.00	0.00	320.18

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

SUPERIOR TESTERS ENTERPRISES INC.

D A T A S U M M A R Y

COMPANY : NATIONAL PETROLEUM RES.
DATE OF TEST : 3-12-1990
DST. NO : 3

WELL NAME : GILL #3
LOCATION : 35-16-29
SHUT-IN PERIOD : 2

INTERPRETIVE DATA (OIL)

TRANSMISSIBILITY

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

EFFECTIVE PERMEABILITY

Oil (md):	0.00
Gas (md):	0.00
TOTAL MOBILITY (md/cp):	0.00
TOTAL COMPRESSIBILITY (psi-1):	0.00E+00
ESTIMATED DAMAGE RATIO:	0.00
CALCULATED DAMAGE RATIO:	0.00
Reservoir Temperature (F):	114.00
Formation Porosity :	.18
Formation Thickness (ft):	10.00
Wellbore Radius (in):	3.94
Reservoir Compressibility (psi-1):	4.80E-07
Calculated Skin Factor :	0.00
PRODUCTION WITH DAMAGE REMOVED :	0.00 137.41 with ZERO DAMAGE
PRODUCTIVITY INDEX :	0.00
Final Flow Pressure (psi):	320.00
APPROXIMATE RADIUS OF INVESTIGATION (ft):	0.00
Total Flowing Time (min):	60.00
EXTRAPOLATED RESERVOIR PRESSURE (psi):	320.00
Slope of Build-up Curve (psi/log cycle):	0.00
Effective Producing Time (min):	60.00

Superior Testers Enterprises, Inc.

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

Date 3 13 90 Location 35-16 29 Elevation 2771 KB County LANE

Company NATIONAL PETROLEUM RESERVES INC Number of Copies 5

Charts Mailed to 260 Rock Rd Wichita KS 67206

Drilling Contractor Emphasis oil ope

Length Drill Pipe 4328 I.D. Drill Pipe 3½ Tool Joint Size 4½ XH

Length Weight Pipe — I.D. Weight Pipe — Tool Joint Size —

Length Drill Collars 30 I.D. Drill Collars 2¼ Tool Joint Size 4½ XH

Top Packer Depth 4399 Bottom Packer Depth 4404 Number of Packers Two Packer Size 6¾

TESTED FROM 4494 TO 4555 ANCHOR LENGTH 151 TOTAL DEPTH 4555 Hole Size 7⅞

LEASE & WELL NO. G.11 FORMATION TESTED PAWNEE-FT SCOTT CHEROKEE-JOHN ZONE TEST NO. 5

Mud Weight 9.3 Viscosity 41 Water Loss 19 Chlorides - Pits 3,000 D.S.T. —

Maximum Temp. 113 °F Initial Hydrostatic Pressure (A) 2157 P.S.I. Final Hydrostatic Pressure (H) 2135 P.S.I.

Tool Open I.F.P. from 930 m to 945 m 15 min

Tool Closed I.C.I.P. from 945 m to 1000 m 15 min

Tool Open F.F.P. from 1000 m to 1015 m 15 min

Tool Closed F.C.I.P. from 1015 m to 1030 m 15 min

from [B]	128 P.S.I.	to [C]	119 P.S.I.
[D]	146 P.S.I.		
from [E]	119 P.S.I.	to [F]	137 P.S.I.
[G]	146 P.S.I.		

Initial Blow WEAK BLOW 4" INTO WATER DECREASING

Final Blow NO BLOW FLUSH TOOL NO HELP

Total Feet Recovered 30' DRILLING MUD TRACE OF OIL 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 LEFT RUBBER IN HOLE %Gas ____ %Oil ____ %Mud ____ %Water

Remarks —

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

Top Recorder No. 5467 Clock No. 27826 Depth 4515 Cir. Sub — Sampler —

Bottom Recorder No. 13208 Clock No. 23917 Depth 4552 Insurance —

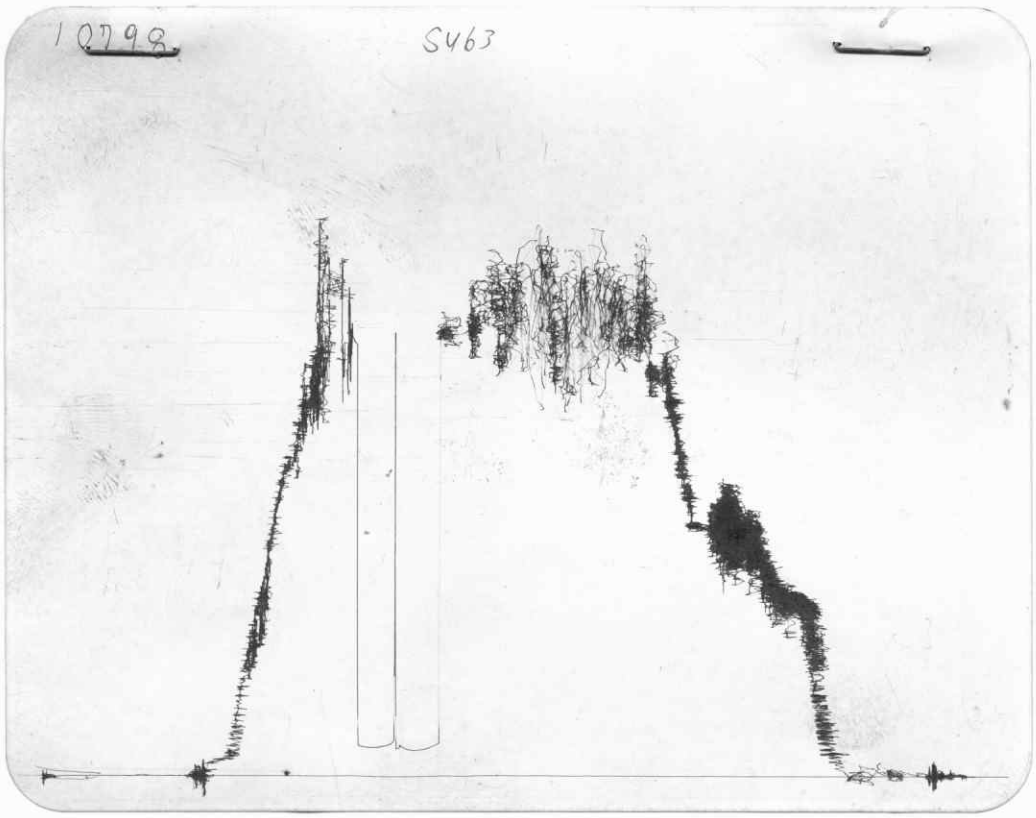
Price of Job —

Tool Operator PAT STEVENSON

Approved By —

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No. 10798



This is an actual photograph of recorder chart.

POINT		PRESSURE FIELD READING	PRESSURE OFFICE READING	
(A)	Initial Hydrostatic Mud	2153	2056	P.S.I.
(B)	First Initial Flow Pressure	128	158	P.S.I.
(C)	First Final Flow Pressure	119	120	P.S.I.
(D)	Initial Closed-In Pressure	146	142	P.S.I.
(E)	Second Initial Flow Pressure	119	126	P.S.I.
(F)	Second Final Flow Pressure	137	133	P.S.I.
(G)	Final Closed-In Pressure	146	141	P.S.I.
(H)	Final Hydrostatic Mud	2135	2116	P.S.I.

COMPANY National Petroleum Res. LEASE - WELL NO Gill #3 SEC 35 TWP 16 RGE. 29 TEST NO. 5 DATE 3-19-1990

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : NATIONAL PETROLEUM RES.
ADDRESS : 260 N.ROCK ROAD,WICHITA
STATE & COUNTY : KANSAS,LANE
ELEV.(GR) : 2774 (KB) : 2779

WELL NAME : GILL #3
LOCATION : 35-16-29
FIELD :
TEST DATE : 3-13-1990

EQUIPMENT AND HOLE DATA

FORMATION TESTED : PAWNEE-CHEROKEE
TEST INT. KB : 4404 to 4555
ANCHOR LENGTH(ft) : 151
TYPE OF TEST : Conventional
TOTAL DEPTH(ft-kb) : 4555
MAIN HOLE SIZE(in) : 7 7/8
MUD WEIGHT : 9.3
MUD VISCOSITY : 41
MUD CHLORIDES : 3000
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) : 113

DRILL PIPE LENGTH(ft) : 4328
DRILL PIPE O.D.(in) : 3.82
WEIGHT PIPE LENGTH(ft) :
WEIGHT PIPE ID : 2.75
DRILL COLLAR LENGTH(ft) : 30
DRILL COLLAR I.D.(in) : 2.259
TOP PACKER DEPTH(kb) :
BOTTOM PACKER DEPTH(kb) : 4404
DUAL PACKERS :
PACKER SIZE(in) : 6 3/4
PACKER HOLD : Yes
TOOL PLUG : No
REVERSED OUT : No
TEST TICKET NUMBER : 10798

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 BUILT TO 1/2 INCH INTO THE WATER
2nd Opening : NO BLOW

RECOVERY

Recovered 30 feet of DRILLING MUD

REMARKS :

WITNESSED BY : DAN DEBOER TOOL OPERATOR : PAT STEVENSON

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : NATIONAL PETROLEUM RES. WELL NAME : GILL #3
DATE OF TEST : 3-13-1990 LOCATION : 35-16-29
DEPTH : 4545.0 SERIAL NO. : 5463

COMMENTS	TIME min	DEFL in	PRESSURE PSIG CALC	CORR	CORRECTED
TEST NO.:5					
Depth : 4545.0 ft-kb					
-1ST HYDROSTATIC	0.0	2.304	2121.98	-1.61	2120.37
-9:30 1ST FLOW	0.0	.173	157.05	1.66	158.72
- 9:35	5.0	.150	135.84	1.77	137.61
- 9:40	10.0	.137	123.86	1.83	125.69
- 9:45	15.0	.131	118.32	1.86	120.18
-9:45 END FLOW	0.0	.131	118.32	1.86	120.18
- 9:50	5.0	.131	118.32	1.86	120.18
- 9:55	10.0	.137	123.86	1.83	125.69
- 9:59	14.0	.155	140.45	1.75	142.20
-9:59 1ST SHUT-IN	0.0	.155	140.45	1.75	142.20
-9:59 2ND FLOW	0.0	.138	124.78	1.83	126.61
- 10:04	5.0	.138	124.78	1.83	126.61
- 10:09	10.0	.149	134.92	1.78	136.70
- 10:14	15.0	.146	132.16	1.79	133.94
-10:14 END FLOW	0.0	.146	132.16	1.79	133.94
- 10:19	5.0	.146	132.16	1.79	133.94
- 10:24	10.0	.147	133.08	1.78	134.86
- 10:29	15.0	.154	139.53	1.75	141.28
-10:29 2ND SHUT-IN	0.0	.154	139.53	1.75	141.28
-2ND HYDROSTATIC	0.0	2.300	2118.29	-1.63	2116.67