

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACD-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

ORIGINAL

API NO. 15- 135-23,618-0000

County Ness

150'S C . NE. NE Sec. 34 Twp. 20 Rge. 25 E W

4470 Feet from S/W (circle one) Line of Section

660 Feet from E/W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE. (SE) NW or SW (circle one)

Lease Name Fehrenbach Well # 4-34

Field Name Almquist

Producing Formation _____

Elevation: Ground 2395' KB 2400'

Total Depth 4510' PBDT _____

Amount of Surface Pipe Set and Cemented at 759' Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan (Data must be collected from the Reserve Pit) AITEDM

Chloride content 4,000 ppm Fluid volume 747 bbls

Dewatering method used _____

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W

County _____ Docket No. _____

Operator: License # 5652

Name: Mustang Oil & Gas Corporation

Address P.O. Box 1609

City/State/Zip Great Bend, KS 67530

Purchaser: _____

Operator Contact Person: Raford Clark

Phone (316) 792-7323

Contractor: Name: Val Energy Inc

License: 5822

Wellsite Geologist: Harlan Dixon

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD S10W Temp. Abd.

Gas ENHR SIGW

Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD

Plug Back _____ PBDT

Commingled _____ Docket No. _____

Dual Completion _____ Docket No. _____

Other (SWD or Inj?) _____ Docket No. _____

11-29-91 12-8-91 12-9-91

Spud Date Date Reached TD Completion Date

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature Raford Clark

Raford Clark

Title Drilling & Prod Superintendent Date 1-7-92

Subscribed and sworn to before me this 7th day of January, 1992.

Notary Public Pamela K. Walters

Pamela K. Walters

Date Commission Expires August 28, 1995

K.C.C. OFFICE USE ONLY	
F	Letter of Confidentiality Attached
C	Wireline Log Received
C	Geologist Report Received
DISTRIBUTION	
<input checked="" type="checkbox"/> KCC	<input type="checkbox"/> SWD/Rep
<input checked="" type="checkbox"/> JAK	<input type="checkbox"/> Plug
<input type="checkbox"/> NGPA	<input type="checkbox"/> Other
(Specify)	
<u>1.10.92</u>	
CONSERVATION DIVISION	
WICHITA, KS	
Form ACD-1 (7-91)	

PI

Operator Name Mustang Oil & Gas Corporation Lease Name Fehrenbach Well # 4-34-

Sec. 34 Twp. 20 Rge. 25
 East
 West

County Ness

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Anhydrite	1633'	+767'
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Heebner	3784'	-1384'
List All E.Logs Run:		Toronto	3806'	-1406
		Lansing	3830'	-1430
		B-KC	4192'	-1792'
		Marmaton	4216'	-1816'
		Ft. Scott	4356'	-1956'
		B. Cherokee 1st	4428'	-2028'
		Mississippi	4439'	-2039'
		Mississippi Warsaw	4467'	-2067'
		LTD	4510'	-2210'
Dual Induction Neutron Density - Porosity				

CASING RECORD

New Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"	24#	759'	60/40 Poz	325	2% gel 3% cc

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

TUBING RECORD	Size	Set At	Packer At	Liner Run
				<input type="checkbox"/> Yes <input type="checkbox"/> No

Date of First, Resumed Production, SWD or Inj.	Producing Method
	<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas:

METHOD OF COMPLETION

Production Interval

Vented Sold Used on Lease
(If vented, submit ACO-18.)

Open Hole Perf. Dually Comp. Commingled
 Other (Specify) _____

Phon -483-2627, Russell, Kansas
Phr 6-793-5861, Great Bend, Kans

ORIGINAL

Phone Plainville 913-434-2812
Phone Ness City 913-798-3843
No 2665

'HON'

ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

Russell, Kansas 67665

Flow

Date	11-29-91	Sec.	34	Twp.	20	Range	25	Called Out	3:15 pm	On Location	6:45 pm	Job Start	2:00 pm	Finish	2:45 pm	
Lease	Fehrenbach	Well No.	4-34	Location				land-125-W-side	County	Ness	State	KS				
Contractor	UAF Energy															
Type Job	Surface pipe															
Hole Size	12 1/4	T.D.	761													
Csg.	8 5/8 - 24"	Depth	760													
Tbg. Size		Depth														
Drill Pipe		Depth														
Tool		Depth														
Cement Left in Csg.	4 1/2 - shoe jk	Shoe Joint	44'													
Press Max.		Minimum														
Meas Line		Displace	46 bbl's													
Perf.																

Owner: *AME*

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To: *Mustang Oil & Gas*

Street: *Box 1609*

City: *Great Bend State KS 67530*

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. *Bill McLean*

X *Bill McLean*

CEMENT

Amount Ordered: *325 4 @ 60/40 24.3*

EQUIPMENT

Pumptrk	No. 128	Cementer	<i>Jack W.</i>
		Helper	<i>Don H.</i>
Pumptrk	No.	Cementer	
		Helper	
Bulktrk	199	Driver	<i>Kent</i>
Bulktrk		Driver	

Consisting of			
Common	195	5.25	1023.75
Poz. Mix	130	2.25	292.50
Gel.	7	6.75	NK
Chloride	10	21.00	210.00
Quickset			
Handling	325	1.00	325.00
Mileage	22		286.00
Total	<i>\$ 3464.65</i>		<i>Sub-Total</i>
	<i>Disc - 519.70</i>		
	<i>\$ 2944.95</i>		<i>Total 2137.25</i>

DEPTH of Job

Reference:	<i>Pump truck</i>	<i>380.00</i>
<i>22</i>	<i>Mileage</i>	<i>44.00</i>
	<i>1 8 5/8 Rubber plug</i>	<i>63.00</i>
	<i>4160' at .39</i>	<i>179.40</i>
	Total	<i>666.40</i>

Floating Equipment

<i>1- 8 5/8 Texas guide shoe</i>	<i>- 220.00</i>
<i>3- 8 5/8 Centralizers</i>	<i>- 183.00</i>
<i>1- 8 5/8 Insert</i>	<i>- 258.00</i>
	<i>661.00</i>

Remarks: *Cement did circ*

KANSAS CORP
JAN 10 1992

Thank you!

CONSERVATION DIVISION
WICHITA, KS

NO WARRANTY ON
FLOAT EQUIPMENT

Original Bid was without
Float equip.

Phone 913-483-2627, Russell, Kansas
 Phone 316-793-5861, Great Bend, Kansas

ORIGINAL

Phone Plainville 913-434-2812
 Phone Ness City 913-798-3843

No 2807

ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

Russell, Kansas 67665

NW

Date <i>12-9-91</i>	Sec. <i>34</i>	Twp. <i>20</i>	Range <i>25</i>	Called Out	On Location <i>1⁰⁰ AM</i>	Job Start <i>4³⁰ AM</i>	Finish <i>7⁰⁰ AM</i>
Lease <i>Fehrenbach</i>	Well No. <i>4-34</i>	Location <i>land 135 w/s</i>			County <i>Ness</i>	State <i>KS</i>	
Contractor <i>Val Drilling R/S #1</i>				Owner <i>SAME</i>			
Type Job <i>Rotary Plug</i>				To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Hole Size <i>7 3/4</i>		T.D. <i>4510 ft</i>		Charge To <i>Mustang oil + Gas Corp.</i>			
Csg.		Depth		Street <i>P.O. Box 1609</i>			
Tbg. Size		Depth		City <i>Great Bend</i> State <i>KS, 67530</i>			
Drill Pipe <i>4 1/2</i>		Depth <i>1670 ft</i>		The above was done to satisfaction and supervision of owner agent or contractor.			
Tool		Depth		Purchase Order No.			
Cement Left in Csg.		Shoe Joint		X <i>Dale Smith</i>			
Press Max.		Minimum		CEMENT <i>Thank You</i>			
Meas Line		Displace		Amount Ordered <i>205 @ 67 gal 1/2 fl oz per sack</i>			
Perf.				Consisting of			

EQUIPMENT

Mustard Board

Pumptrk	No.	Cementer	<i>Mika</i>
	<i>46</i>	Helper	<i>Danna</i>
Pumptrk	No.	Cementer	
		Helper	
Bulktrk	<i>69</i>	Driver	<i>Mont</i>
		Driver	

DEPTH of Job *1670 ft*

Reference:	<i>Pump Truck chgs</i>	<i>380.00</i>
<i>22</i>	<i>Milage chgs</i>	<i>44.00</i>
<i>1</i>	<i>Hold Hole plug</i>	<i>20.00</i>
	Sub Total	
	Tax	
	Total	<i>444.00</i>

Remarks: *Mixed 50 lb at 1670 ft
 80 lb at 850 ft
 50 lb at 400 ft
 15 lb at Rat Hole
 10 lb at 40 ft*

*Allied Cementing Co. Inc
 Mike Mural*

Common	<i>123</i>	<i>5.25</i>	<i>645.75</i>
Poz. Mix	<i>82</i>	<i>2.25</i>	<i>184.50</i>
Gel.	<i>12</i>	<i>6.75</i>	<i>81.00</i>
Chloride			
Quickset			
Handling	<i>205</i>	<i>1.00</i>	<i>205.00</i>
Milage	<i>22</i>		<i>180.40</i>
		Sub Total	
		Total	<i>1346.65</i>

RECEIVED
 CONSERVATION COMMISSION

JAN 10 1992

CONSERVATION DIVISION
 WICHITA, KS

ORIGINAL
Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 12-6-1991 Location 150' S of NE-NE 34-20-25^W Elevation 2345.6L County Ness 2400K.8

Company MUSTANG DRILLING & EXPLORATION Number of Copies 5

Charts Mailed to P.O. Box 11009 GREAT BEND KANSAS 67530

Drilling Contractor VAL ENERGY INC.

Length Drill Pipe 4275 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" x 1 1/4"

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

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

Top Packer Depth 4298 Bottom Packer Depth 4303 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 4303 TO 4331 ANCHOR LENGTH 28 TOTAL DEPTH 4331 Hole Size 7 7/8"

LEASE & WELL NO. Fehrenbach FORMATION TESTED RAWNEE TEST NO. 1

Mud Weight 9.4 Viscosity 46 Water Loss 10.7 Chlorides - Pits 4000 D.S.T. _____

Maximum Temp. 111 °F Initial Hydrostatic Pressure (A) 2185 P.S.I. Final Hydrostatic Pressure (H) 2142 P.S.I.

Tool Open I.F.P. from 11:15 A.m to 11:45 A.m 30 min

Tool Closed I.C.I.P. from 11:45 A.m to 12:15 P.m 30 min

Tool Open F.F.P. from 12:15 P.m to 12:45 P.m 30 min

Tool Closed F.C.I.P. from 12:45 P.m to 1:45 P.m 30 min

Initial Blow WEAK blow for 10 minutes & DIED

Final Blow NO Blow - flushed tool - WEAK blow for 8 minutes & DIED

Total Feet Recovered 10 Gravity of Oil _____ Corrected _____

10 Feet of mud with a Rainbow show of oil & % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of A FAIR show between the shut-IN & % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of Hydraulic Tool % 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 NONE Straddle NONE Hook Wall NONE

Top Recorder No. 906 Clock No. 47441 Depth 4325 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13561 Clock No. 47442 Depth 4328 Insurance NONE

Price of Job _____

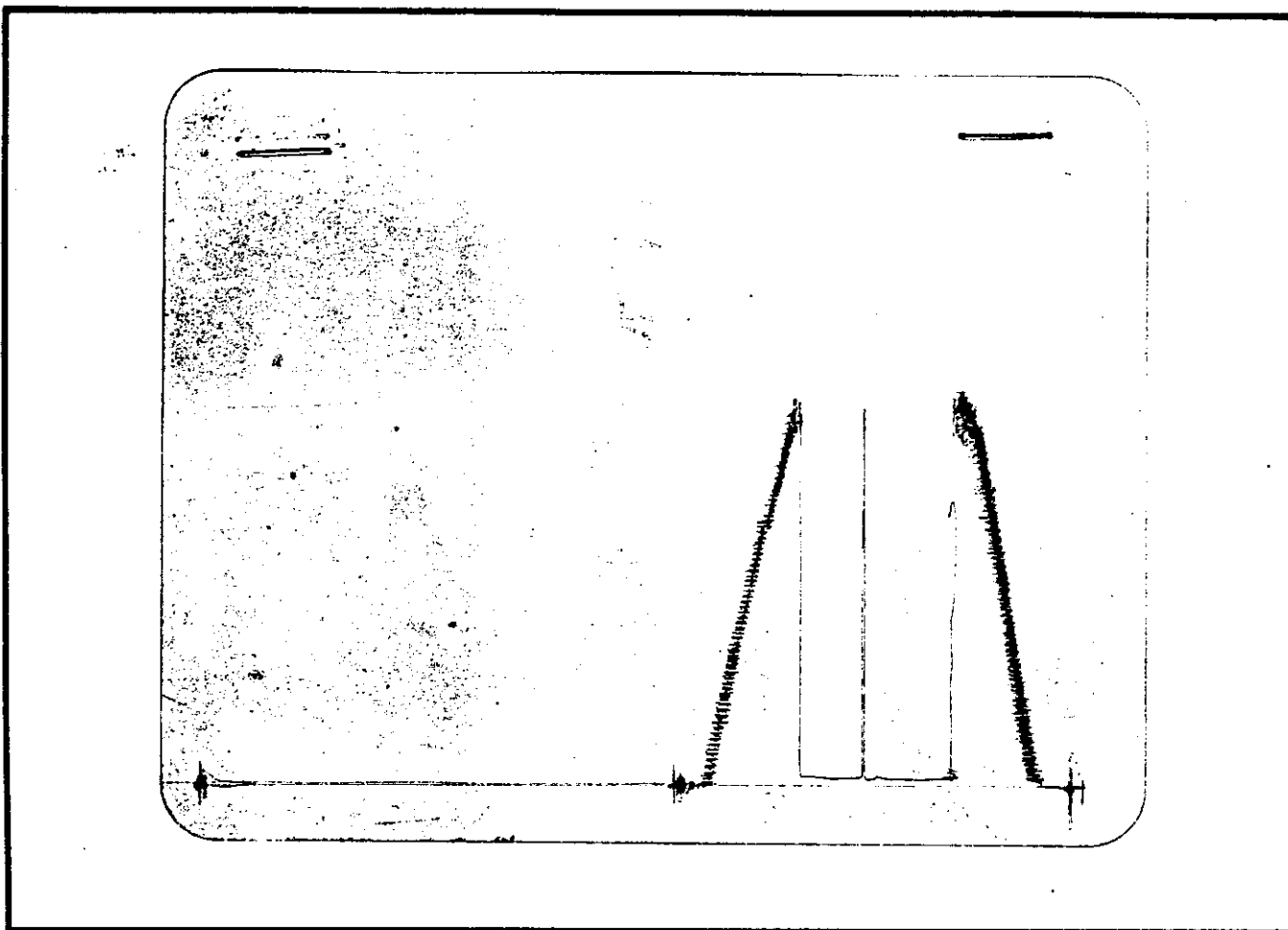
Tool Operator Steve Ludwig

Approved By _____

NO 11482

from [B] <u>29</u> P.S.I. to [C] <u>29</u> P.S.I.
[D] <u>50</u> P.S.I.
from [E] <u>29</u> P.S.I. to [F] <u>36</u> P.S.I.
[G] <u>50</u> P.S.I.

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.



This is an actual photograph of recorder chart.

POINT	PRESSURE		P.S.I.
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	2185	2244	P.S.I.
(B) First Initial Flow Pressure	29	31	P.S.I.
(C) First Final Flow Pressure	29	19	P.S.I.
(D) Initial Closed-in Pressure	50	29	P.S.I.
(E) Second Initial Flow Pressure	29	21	P.S.I.
(F) Second Final Flow Pressure	29	21	P.S.I.
(G) Final Closed-in Pressure	36	18	P.S.I.
(H) Final Hydrostatic Mud	50	27	P.S.I.
	2142	2194	

ORIGINAL

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : MUSTANG DRILLING & EXP. WELL NAME : FEHRENBACH #4-34
ADDRESS : P.O. BOX 1609, GREAT BEND LOCATION : 150'S NE-NE 34-20S-25W
STATE & COUNTY : KANSAS, NESS FIELD :
ELEV. (GR) : 2395 (KB) : 2400 TEST DATE : 12-6-1991

EQUIPMENT AND HOLE DATA

FORMATION TESTED : PAWNEE DRILL PIPE LENGTH(ft) : 4275
TEST INT. KB : 4303 to 4331 DRILL PIPE O.D. (in) : 3.82
ANCHOR LENGTH(ft) : 28 WEIGHT PIPE LENGTH(ft) :
TYPE OF TEST : Conventional WEIGHT PIPE ID : 2.75
TOTAL DEPTH(ft-kg) : 4331 DRILL COLLAR LENGTH(ft) :
MAIN HOLE SIZE(in) : 7 7/8 DRILL COLLAR I.D. (in) : 2.259
MUD WEIGHT : 9.4 TOP PACKER DEPTH(kb) : 4298
MUD VISCOSITY : 46 BOTTOM PACKER DEPTH(kb) : 4303
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) : 111 TEST TICKET NUMBER : 11482

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 FOR 10 MINUTES AND DIED
2nd Opening : NO BLOW

RECOVERY

Recovered 10 feet of MUD WITH A SLIGHTL SHOW OF OIL

REMARKS :

WITNESSED BY : HARLEN DIXON

TOOL OPERATOR : GENE BUDIG

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : MUSTANG DRILLING & EXP. WELL NAME : FEHRENBACH #4-34
 DATE OF TEST : 12-6-1991 LOCATION : 150'S NE-NE 34-20S-25W
 DEPTH : 4325.0 SERIAL NO. : 906

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	----- CORRECTED
TEST NO.:1					
Depth : 4325.0 ft-kb					
-1ST HYDROSTATIC	0.0	3.113	2245.37	-.40	2244.97
11:15 1ST FLOW	0.0	.044	35.52	-3.58	31.93
- 0:05	5.0	.038	31.19	-3.62	27.58
- 0:10	10.0	.034	28.31	-3.64	24.67
- 0:15	15.0	.033	27.59	-3.65	23.95
- 0:20	20.0	.033	27.59	-3.65	23.95
- 0:25	25.0	.030	25.43	-3.66	21.77
- 0:30	30.0	.027	23.27	-3.68	19.59
-11:45 END FLOW	0.0	.027	23.27	-3.68	19.59
- 11:50	5.0	.027	23.27	-3.68	19.59
- 11:55	10.0	.027	23.27	-3.68	19.59
- 12:00	15.0	.027	23.27	-3.68	19.59
- 12:05	20.0	.027	23.27	-3.68	19.59
- 12:10	25.0	.031	26.15	-3.66	22.50
- 12:15	30.0	.041	33.36	-3.60	29.75
-12:15 1ST SHUT-IN	0.0	.041	33.36	-3.60	29.75
-12:15 2ND FLOW	0.0	.029	24.71	-3.67	21.04
- 12:20	5.0	.029	24.71	-3.67	21.04
- 12:25	10.0	.057	44.88	-3.51	41.36
- 12:30	15.0	.042	34.08	-3.60	30.48
- 12:35	20.0	.032	26.87	-3.65	23.22
- 12:40	25.0	.029	24.71	-3.67	21.04
- 12:45	30.0	.026	22.55	-3.69	18.87
-12:45 END FLOW	0.0	.026	22.55	-3.69	18.87
- 12:50	5.0	.027	23.27	-3.68	19.59
- 12:55	10.0	.028	23.99	-3.68	20.32
- 13:00	15.0	.032	26.87	-3.65	23.22
- 13:04	19.0	.034	28.31	-3.64	24.67
- 13:11	26.0	.037	30.47	-3.62	26.85
- 13:15	30.0	.038	31.19	-3.62	27.58
-1:15 2ND SHUT-IN	0.0	.038	31.19	-3.62	27.58
-2ND HYDROSTATIC	0.0	3.043	2194.96	-.28	2194.68

Superior Testers Enterprises, Inc.

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

(316) 792-6902

ORIGINAL

Date 12-7-1991 Location 150'S of NE-NE 34-20 E 25' N Elevation 2400KB County NESS

Company MUSTANG DRILLING & EXPLORATION Number of Copies 5

Charts Mailed to P.O. Box 1609 GREAT BEND KANSAS 67530

Drilling Contractor VAI ENERGY INC.

Length Drill Pipe 4393 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 4416 Bottom Packer Depth 4421 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 4421 TO 4475 ANCHOR LENGTH 54 TOTAL DEPTH 4475 Hole Size 7 7/8"

LEASE & WELL NO. Fehrenback #4-34 FORMATION TESTED MISSISSIPPI TEST NO. 2

Mud Weight 9.4 Viscosity 46 Water Loss 128 Chlorides - Pits 4000 D.S.T. 10000

Maximum Temp. 117 °F Initial Hydrostatic Pressure (A) 2221 P.S.I. Final Hydrostatic Pressure (H) 2192 P.S.I.

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

Tool Closed I.C.I.P. from 4:30 P.m to 5:15 P.m 45 min

Tool Open F.F.P. from 5:15 P.m to 6:15 P.m 60 min

Tool Closed F.C.I.P. from 6:15 P.m to 7:45 P.m 90 min

from [B] 43 P.S.I. to [C] 43 P.S.I.
 [D] 1145 P.S.I.
 from [E] 50 P.S.I. to [F] 58 P.S.I.
 [G] 1145 P.S.I.

Initial Blow WEAK STEADY 1/4 inch blow throughout

Final Blow VERY WEAK SURFACE blow throughout

Total Feet Recovered 60 Gravity of Oil _____ Corrected _____

30 Feet of HEAVY OIL cut mud 0% Gas 20% Oil 70% Mud 10% Water

30 Feet of HEAVY OIL cut mud 0% Gas 10% Oil 70% Mud 20% Water

60 Feet of GAS IN THE PIPE _____ % Gas _____ % Oil _____ % Mud _____ % Water

1 Feet of CLEAN OIL ON TOP _____ % 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 2.272

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

Top Recorder No. 906 Clock No. 47441 Depth 4469 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13561 Clock No. 47442 Depth 4472 Insurance NONE

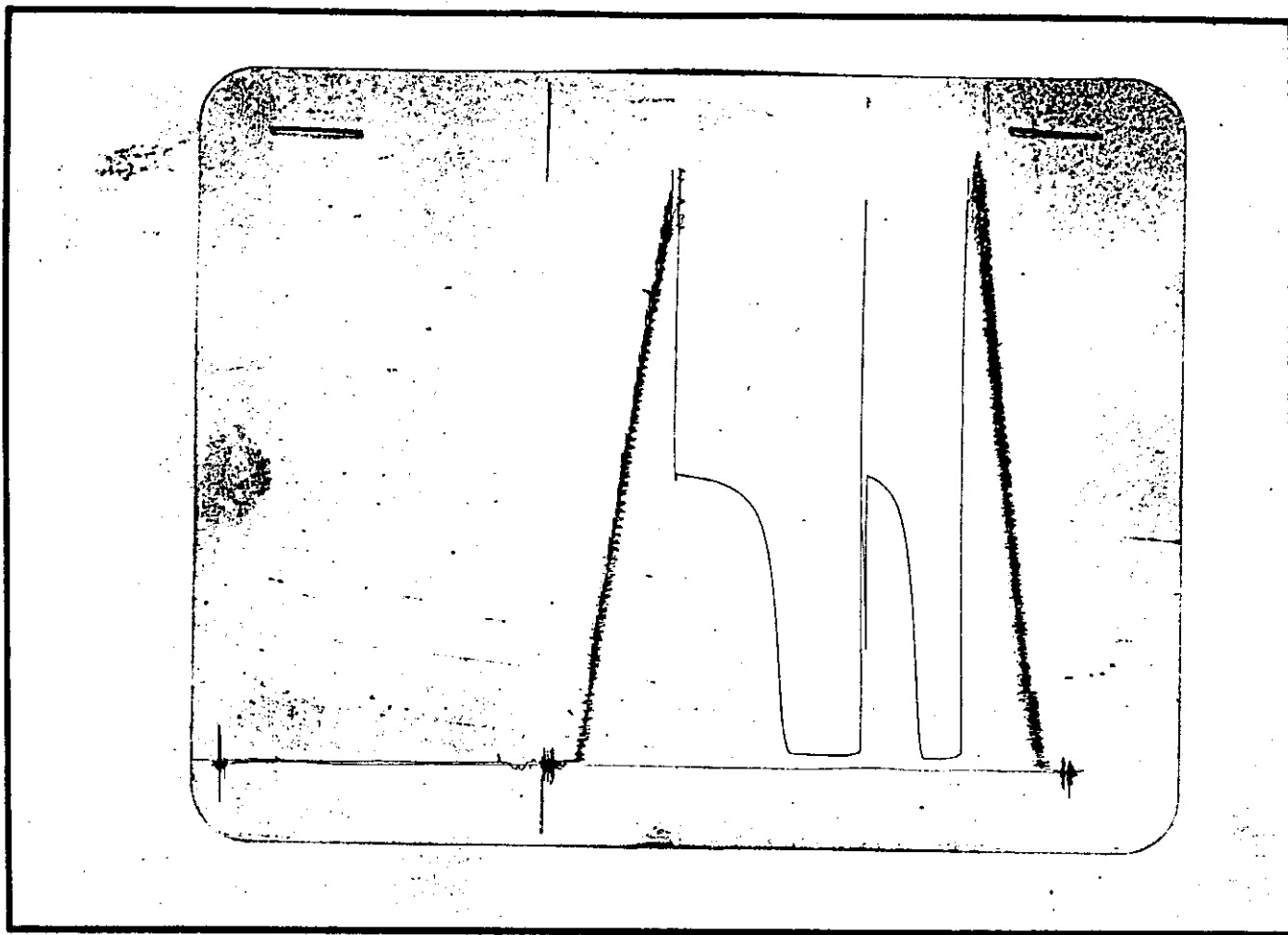
Price of Job _____

Tool Operator Gene Budig

Approved By _____

No 11483

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.



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	_____	2235	P.S.I.
(B) First Initial Flow Pressure	43	51	P.S.I.
(C) First Final Flow Pressure	43	39	P.S.I.
(D) Initial Closed-in Pressure	1145	1136	P.S.I.
(E) Second Initial Flow Pressure	50	54	P.S.I.
(F) Second Final Flow Pressure	58	47	P.S.I.
(G) Final Closed-in Pressure	1145	1135	P.S.I.
(H) Final Hydrostatic Mud	2192	2158	P.S.I.

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : MUSTANG DRILLING & EXP. WELL NAME : FEHRENBACH #4-34
 ADDRESS : P.O. BOX 1609, GREAT BEND LOCATION : 150'S NE-NE 34-20S-25W
 STATE & COUNTY : KANSAS, NESS FIELD :
 ELEV. (GR) : 2395 (KB) : 2400 TEST DATE : 12-7-1991

EQUIPMENT AND HOLE DATA

FORMATION TESTED : MISSISSIPPI DRILL PIPE LENGTH(ft) : 4393
 TEST INT. KB : 4421 to 4475 DRILL PIPE O.D. (in) : 3.82
 ANCHOR LENGTH(ft) : 54 WEIGHT PIPE LENGTH(ft) :
 TYPE OF TEST : Conventional WEIGHT PIPE ID : 2.75
 TOTAL DEPTH(ft-kg) : 4475 DRILL COLLAR LENGTH(ft) :
 MAIN HOLE SIZE(in) : 7 7/8 DRILL COLLAR I.D. (in) : 2.259
 MUD WEIGHT : 9.4 TOP PACKER DEPTH(kb) : 4416
 MUD VISCOSITY : 46 BOTTOM PACKER DEPTH(kb) : 4421
 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 : 11843

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 STEADY 1/4 INCH BLOW THROUGH OUT
 2nd Opening : VERY WEAK SURFACE BLOW THROUGH OUT

RECOVERY

Recovered 30 feet of HEAVY OIL CUT MUD 20%OIL 70%MUD 10%WATER
 Recovered 30 feet of HEAVY OIL CUT MUD 10%OIL 70%MUD 20% WATER
 Recovered 60 feet of GAS IN THE PIPE
 Recovered 1 feet of CLEAN OIL ON TOP

REMARKS :

WITNESSED BY : HARLEN DIXON

TOOL OPERATOR : GENE BUDIG

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : MUSTANG DRILLING & EXP. WELL NAME : FEHRENBACH #4-34
 DATE OF TEST : 12-7-1991 LOCATION : 150'S NE-NE 34-20S-25W
 DEPTH : 4469.0 SERIAL NO. : 906

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO.:2					
Depth : 4469.0 ft-kb					
-1ST HYDROSTATIC	0.0	3.100	2236.01	-.37	2235.63
-4:00 1ST FLOW	0.0	.071	54.96	-3.43	51.52
- 4:05	5.0	.066	51.36	-3.46	47.90
- 4:10	10.0	.060	47.04	-3.49	43.54
- 4:15	15.0	.055	43.44	-3.52	39.91
- 4:20	20.0	.055	43.44	-3.52	39.91
- 4:25	25.0	.055	43.44	-3.52	39.91
- 4:30	30.0	.055	43.44	-3.52	39.91
-4:30 END FLOW	0.0	.055	43.44	-3.52	39.91
- 4:33	3.0	.143	106.80	-3.03	103.77
- 4:36	6.0	.517	376.10	-.92	375.18
- 4:39	9.0	.828	600.04	.83	600.87
- 4:42	12.0	1.059	766.37	2.13	768.51
- 4:45	15.0	1.210	875.10	2.98	878.08
- 4:48	18.0	1.314	949.99	3.57	953.56
- 4:51	21.0	1.380	997.51	3.93	1001.44
- 4:54	24.0	1.433	1035.67	3.84	1039.51
- 4:57	27.0	1.473	1064.47	3.77	1068.25
- 5:00	30.0	1.496	1081.04	3.73	1084.77
- 5:03	33.0	1.515	1094.72	3.70	1098.42
- 5:06	36.0	1.535	1109.12	3.67	1112.79
- 5:09	39.0	1.550	1119.92	3.64	1123.56
- 5:12	42.0	1.559	1126.40	3.63	1130.03
- 5:15	45.0	1.568	1132.88	3.61	1136.49
-5:15 1ST SHUT-IN	0.0	1.568	1132.88	3.61	1136.49
-5:15 2ND FLOW	0.0	.075	57.84	-3.41	54.43
- 5:20	5.0	.067	52.08	-3.46	48.62
- 5:25	10.0	.063	49.20	-3.48	45.72
- 5:30	15.0	.061	47.76	-3.49	44.27
- 5:35	20.0	.061	47.76	-3.49	44.27
- 5:40	25.0	.061	47.76	-3.49	44.27
- 5:45	30.0	.061	47.76	-3.49	44.27
- 5:50	35.0	.062	48.48	-3.48	44.99
- 5:55	40.0	.063	49.20	-3.48	45.72
- 6:00	45.0	.064	49.92	-3.47	46.44
- 6:05	50.0	.064	49.92	-3.47	46.44
- 6:08	53.0	.066	51.36	-3.46	47.90
-6:08 END FLOW	0.0	.066	51.36	-3.46	47.90
- 6:11	3.0	.100	75.84	-3.27	72.57
- 6:14	6.0	.198	146.40	-2.72	143.69

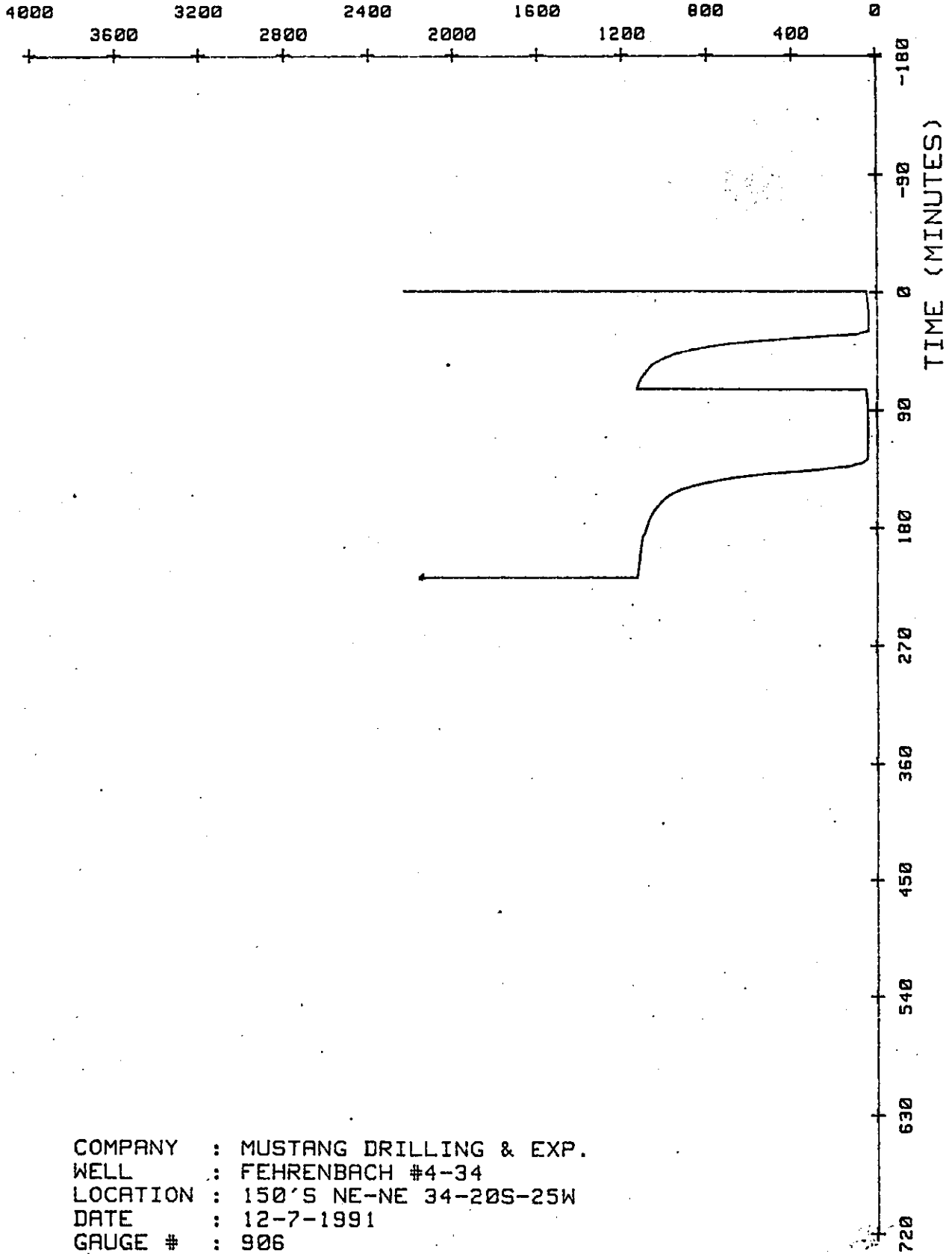
SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : MUSTANG DRILLING & EXP. WELL NAME : FEHRENBACH #4-34
 DATE OF TEST : 12-7-1991 LOCATION : 150'S NE-NE 34-20S-25W
 DEPTH : 4469.0 SERIAL NO. : 906

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	----- CORRECTED
TEST NO.:2					
- 6:17	9.0	.433	315.62	-1.39	314.22
- 6:20	12.0	.739	535.95	.33	536.28
- 6:23	15.0	.961	695.81	1.58	697.39
- 6:26	18.0	1.100	795.89	2.36	798.26
- 6:29	21.0	1.203	870.06	2.94	873.00
- 6:32	24.0	1.284	928.38	3.40	931.79
- 6:35	27.0	1.336	965.83	3.69	969.52
- 6:38	30.0	1.376	994.63	3.92	998.55
- 6:41	33.0	1.405	1015.51	3.89	1019.40
- 6:44	36.0	1.427	1031.35	3.85	1035.20
- 6:47	39.0	1.450	1047.91	3.81	1051.72
- 6:50	42.0	1.466	1059.43	3.78	1063.22
- 6:53	45.0	1.479	1068.80	3.76	1072.56
- 6:56	48.0	1.491	1077.44	3.74	1081.18
- 6:59	51.0	1.500	1083.92	3.73	1087.64
- 7:02	54.0	1.507	1088.96	3.72	1092.67
- 7:05	57.0	1.515	1094.72	3.70	1098.42
- 7:07	59.0	1.527	1103.36	3.68	1107.04
- 7:10	62.0	1.534	1108.40	3.67	1112.07
- 7:13	65.0	1.537	1110.56	3.67	1114.22
- 7:16	68.0	1.542	1114.16	3.66	1117.82
- 7:19	71.0	1.544	1115.60	3.65	1119.25
- 7:22	74.0	1.548	1118.48	3.65	1122.13
- 7:25	77.0	1.550	1119.92	3.64	1123.56
- 7:28	80.0	1.553	1122.08	3.64	1125.72
- 7:31	83.0	1.556	1124.24	3.63	1127.87
- 7:34	86.0	1.561	1127.84	3.63	1131.47
- 7:37	89.0	1.564	1130.00	3.62	1133.62
- 7:39	91.0	1.566	1131.44	3.62	1135.06
- 6:08	0.0	1.566	1131.44	3.62	1135.06
-7:39 2ND SHUT-IN	0.0	1.567	1132.16	3.62	1135.78
-2ND HYDROSTATI	0.0	2.992	2158.24	-.19	2158.05

PRESSURE (P S I G)



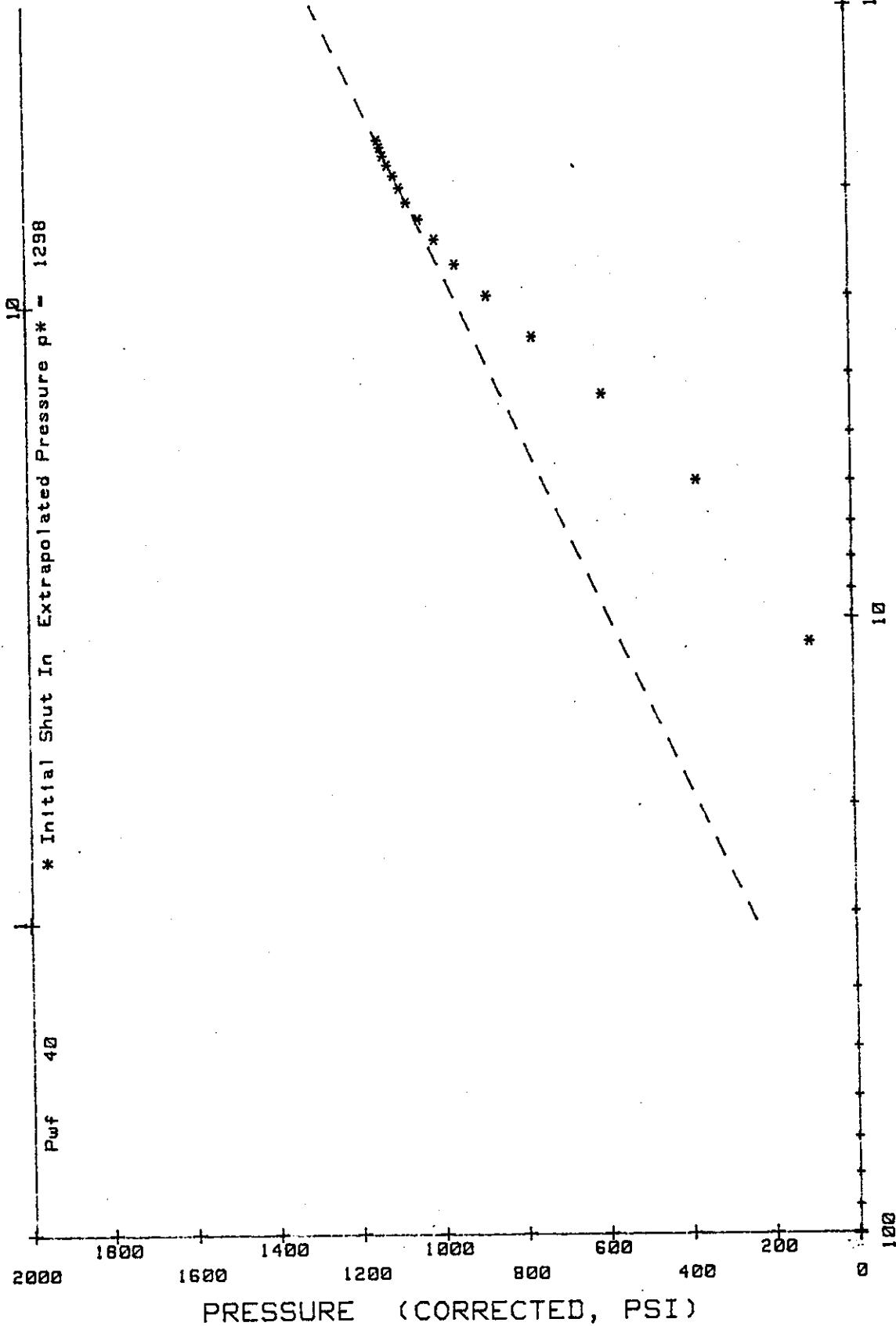
COMPANY : MUSTANG DRILLING & EXP.
WELL : FEHRENBACH #4-34
LOCATION : 150'S NE-NE 34-20S-25W
DATE : 12-7-1991
GAUGE # : 906

ORIGINAL

GAUGE # : 906

DATE : 12-7-1991

LOCATION : 150'S NE-NE 34-20S-25W



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

PRESSURE (CORRECTED, PSI)

SUPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

COMPANY : MUSTANG DRILLING & EXP.
 WELL NAME : FEHRENBACH #4-34
 LOCATION : 150'S NE-NE 34-20S-25W
 STATE & COUNTY : KANSAS, NESS
 DATE OF TEST : 12-7-1991
 TEST INT. KB : 4421 to 4475
 TOTAL INTERVAL (ft) K.B. : 54.00
 ELEV.(GR) : 2395 (KB) : 2400
 FIELD :

ELEMENT SERIAL NO. : 906
 LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG -----
Refer. depth :	4469.0 ft-kb		
-4:30 END FLOW	0.00	0.00	39.91
	3.00	11.00	103.77
	6.00	6.00	375.18
	9.00	4.33	600.87
	12.00	3.50	768.51
	15.00	3.00	878.08
	18.00	2.67	953.56
	21.00	2.43	1001.45
	24.00	2.25	1039.91
	27.00	2.11	1068.94
	30.00	2.00	1085.63
	33.00	1.91	1099.42
	36.00	1.83	1113.93
	39.00	1.77	1124.82
	42.00	1.71	1131.35
	45.00	1.67	1137.88
-5:15 1ST SHUT-IN	0.00	0.00	1137.88

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

ORIGINAL

SUPERIOR TESTERS ENTERPRISES INC.

DATA SUMMARY

COMPANY : MUSTANG DRILLING & EXP. WELL NAME : FEHRENBACH #4-34
DATE OF TEST : 12-7-1991 LOCATION : 150'S NE-NE 34-20S-25W
DST. NO : 2 SHUT-IN PERIOD : 1

INTERPRETIVE DATA (DIL)

EXTRAPOLATED RESERVOIR PRESSURE (psi):	1298.00
Slope of Build-up Curve (psi/log cycle):	707.38
Effective Producing Time (min):	30.00

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

GAUGE # : 906

DATE : 12-7-1991

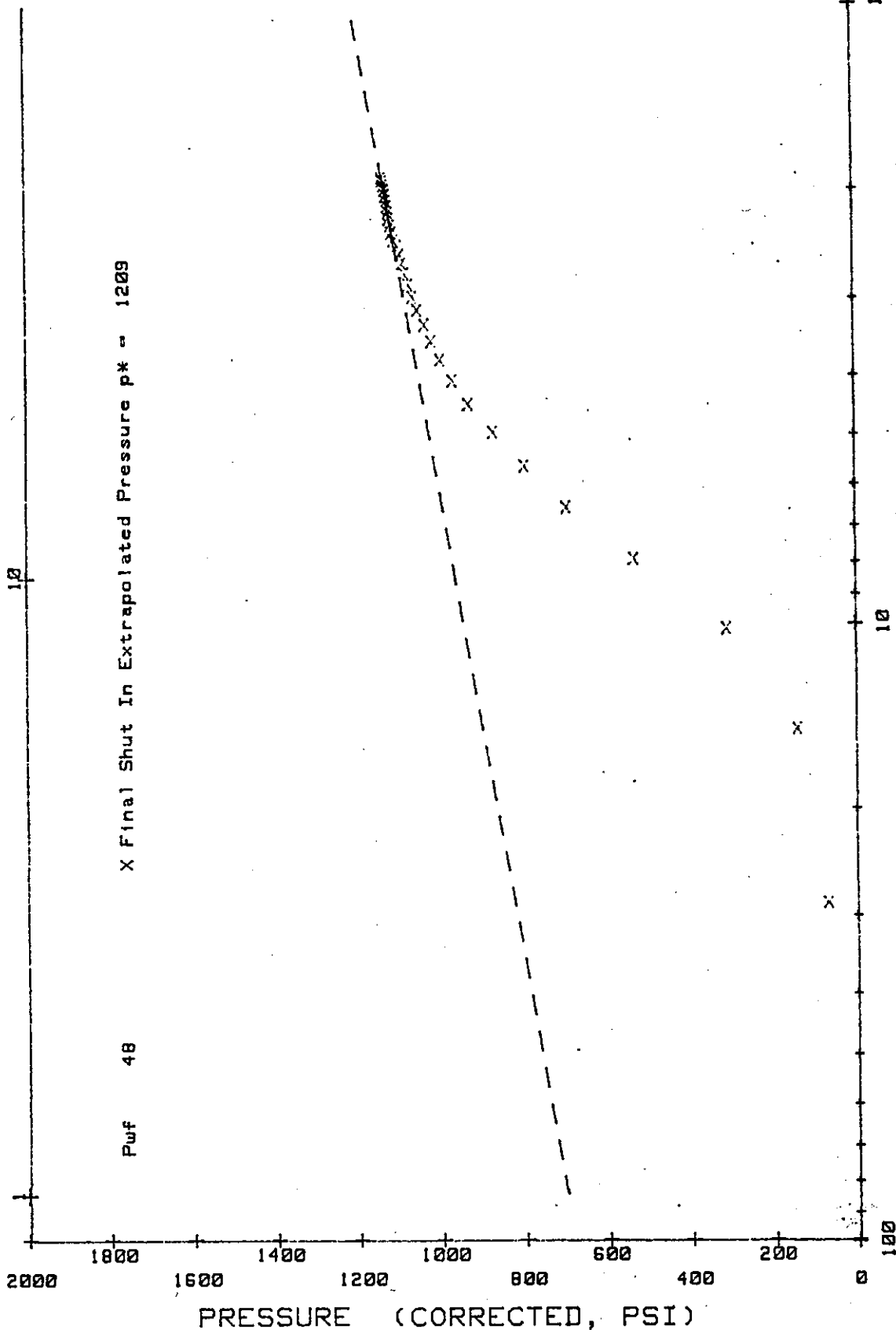
LOCATION : 150'S NE-NE 34-20S-25W

100

10

X Final Shut In Extrapolated Pressure p* = 1209

Pwf 48



PRESSURE (CORRECTED, PSI)

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

100

SUPERIOR TESTERS ENTERPRISES INC.

ORIGINAL

HORNER ANALYSIS

COMPANY : MUSTANG DRILLING & EXP.
 WELL NAME : FEHRENBACH #4-34
 LOCATION : 150'S NE-NE 34-20S-25W
 STATE & COUNTY : KANSAS, NESS
 DATE OF TEST : 12-7-1991
 TEST INT. KB : 4421 to 4475
 TOTAL INTERVAL (ft) K.B. : 54.00
 ELEV. (GR) : 2395 (KB) : 2400
 FIELD :

ELEMENT SERIAL NO. : 906
 LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG -----
Refer. depth :	4469.0 ft-kb		
-6:08 END FLOW	0.00	0.00	47.90
	3.00	28.67	72.57
	6.00	14.83	143.69
	9.00	10.22	314.22
	12.00	7.92	536.28
	15.00	6.53	697.39
	18.00	5.61	798.26
	21.00	4.95	873.00
	24.00	4.46	931.79
	27.00	4.07	969.52
	30.00	3.77	998.55
	33.00	3.52	1019.59
	36.00	3.31	1035.56
	39.00	3.13	1052.25
	42.00	2.98	1063.86
	45.00	2.84	1073.29
	48.00	2.73	1082.00
	51.00	2.63	1088.53
	54.00	2.54	1093.61
	57.00	2.46	1099.42
	59.00	2.41	1108.13
	62.00	2.34	1113.21
	65.00	2.28	1115.38
	68.00	2.22	1119.01
	71.00	2.17	1120.46
	74.00	2.12	1123.37
	77.00	2.08	1124.82
	80.00	2.04	1127.00
	83.00	2.00	1129.17
	86.00	1.97	1132.80

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

SUPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

COMPANY : MUSTANG DRILLING & EXP. WELL NAME : FEHRENBACH #4-34
DATE OF TEST : 12-7-1991 LOCATION : 150'S NE-NE 34-20S-25W
REFERENCE DEPTH : 4469.0 SERIAL NO. : 906

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG	-----
	89.00	1.93	1134.98	
	91.00	1.91	1136.43	
	0.00	0.00	1136.43	
-7:39 2ND SHUT-IN	0.00	0.00	1137.16	

ORIGINAL

SUPERIOR TESTERS ENTERPRISES INC.

DATA SUMMARY

COMPANY : MUSTANG DRILLING & EXP. WELL NAME : FEHRENBACH #4-34
DATE OF TEST : 12-7-1991 LOCATION : 150'S NE-NE 34-20S-25W
DST. NO : 2 SHUT-IN PERIOD : 2

INTERPRETIVE DATA (OIL)

TRANSMISSIBILITY

Oil (md.ft/cp): 1.12
Gas (md.ft/cp): 0.00

EFFECTIVE PERMEABILITY

Oil (md): .09
Gas (md): 0.00

TOTAL MOBILITY (md/cp): .11

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

ESTIMATED DAMAGE RATIO: .97

CALCULATED DAMAGE RATIO: 1.59

Reservoir Temperature (F): 117.00

Formation Porosity : .18

Formation Thickness (ft): 10.00

Wellbore Radius (in): 3.94

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

Calculated Skin Factor : 1.88

PRODUCTION WITH DAMAGE REMOVED (bbl/D): 2.87

PRODUCTIVITY INDEX (bbl/psi): 0.00

Final Flow Pressure (psi): 48.00

APPROXIMATE RADIUS OF INVESTIGATION (ft): 10.73

Total Flowing Time (min): 83.00

EXTRAPOLATED RESERVOIR PRESSURE (psi): 1209.00

Slope of Build-up Curve (psi/log cycle): 262.88

Effective Producing Time (min): 83.00

Superior Testers Enterprises, Inc.

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

(316) 792-6902

ORIGINAL

Date 12-8-1991 Location 150' S of NE-NE 34-20⁵ E^W Elevation 2400 N.B. County WAS

Company MUSTANG DRILLING & EXPLORATION Number of Copies 5

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

Drilling Contractor VAL ENERGY INC.

Length Drill Pipe 4442 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 4445 Bottom Packer Depth 4470 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 4470 TO 4480 ANCHOR LENGTH 10 TOTAL DEPTH 4480 Hole Size 7 7/8"

LEASE & WELL NO. FEHRENBACK #4-34 FORMATION TESTED Mississippi TEST NO. 3

Mud Weight 9.4 Viscosity 46 Water Loss 12.9 Chlorides - Pits 4000 D.S.T. 25000

Maximum Temp. 127 °F Initial Hydrostatic Pressure (A) 2228 P.S.I. Final Hydrostatic Pressure (H) 2206 P.S.I.

Tool Open I.F.P. from <u>4:45 A m</u> to <u>5:15 A m</u> <u>30</u> min	from [B] <u>36</u> P.S.I. to [C] <u>58</u> P.S.I.
Tool Closed I.C.I.P. from <u>5:15 A m</u> to <u>6:00 A m</u> <u>45</u> min	[D] <u>1123</u> P.S.I.
Tool Open F.F.P. from <u>6:00 A m</u> to <u>7:00 A m</u> <u>60</u> min	from [E] <u>87</u> P.S.I. to [F] <u>157</u> P.S.I.
Tool Closed F.C.I.P. from <u>7:00 A m</u> to <u>8:30 A m</u> <u>90</u> min	[G] <u>1094</u> P.S.I.

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

Final Blow WEAK building blow built to the bottom of a 5 gallon bucket in 45 minutes

Total Feet Recovered 345 Gravity of Oil _____ Corrected

<u>60</u> Feet of <u>Gas in the pipe</u>	% Gas _____ % Oil _____ % Mud _____ % Water _____
<u>5</u> Feet of <u>clean oil on top</u>	% Gas _____ % Oil _____ % Mud _____ % Water _____
<u>100</u> Feet of <u>Slightly muddy water with a trace of oil</u>	% Gas _____ % Oil _____ % Mud _____ % Water _____
<u>200</u> Feet of <u>water with a very slight trace</u>	% Gas _____ % Oil _____ % Mud _____ % Water _____
<u>40</u> Feet of <u>water</u>	% 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 1.91

Extra Equipment - Jars YES Safety Joint YES Extra Packer NO Straddle NO Hook Wall NO

Top Recorder No. 906 Clock No. 47442 Depth 4474 Cir. Sub NO Sampler NO

Bottom Recorder No. 13561 Clock No. 47441 Depth 4477 Insurance NO

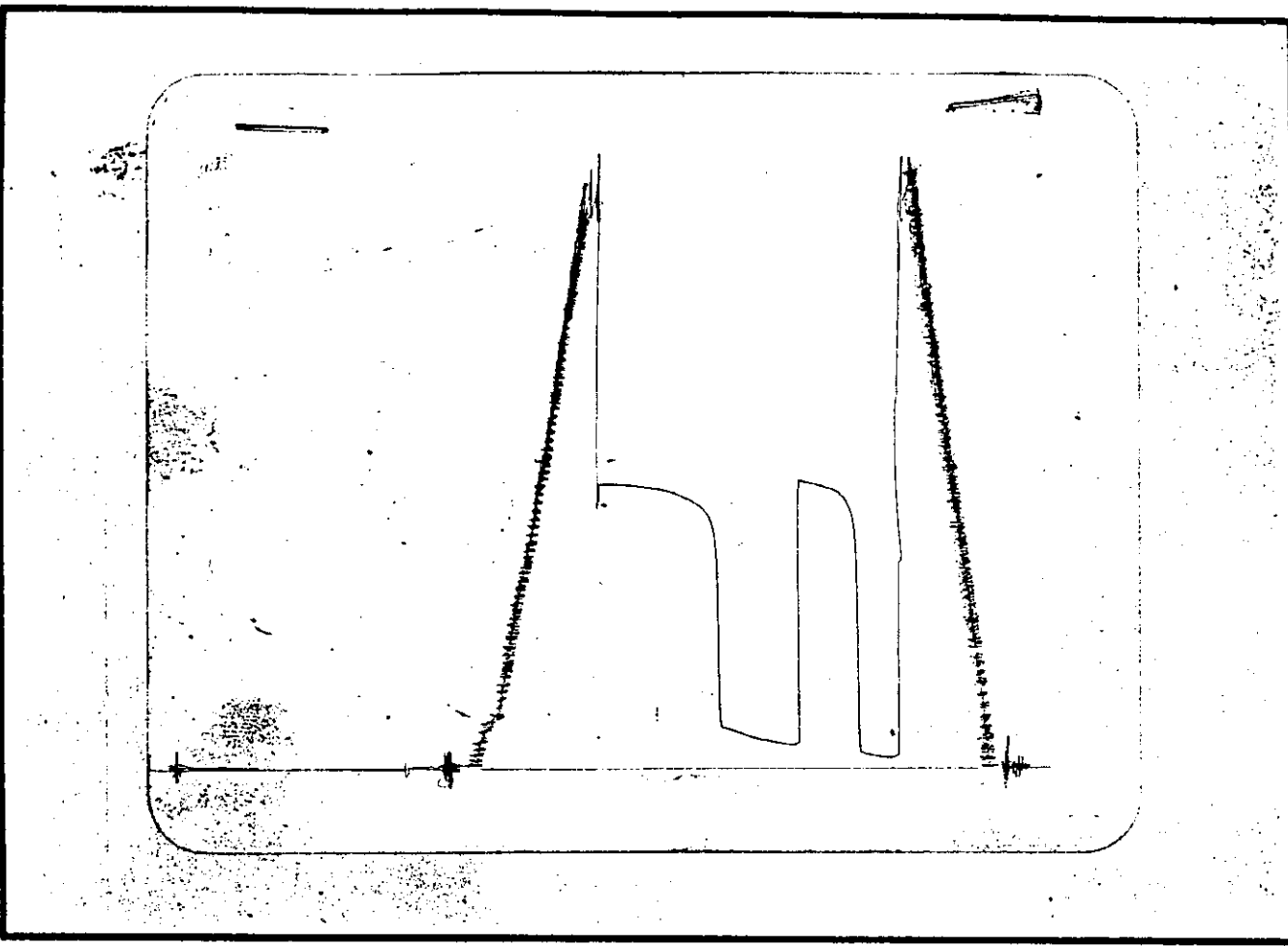
Price of Job _____

Tool Operator Don Budig

Approved By _____

No 11484

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		P.S.I.
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	<u>2228</u>	<u>2242</u>	P.S.I.
(B) First Initial Flow Pressure	<u>36</u>	<u>41</u>	P.S.I.
(C) First Final Flow Pressure	<u>58</u>	<u>54</u>	P.S.I.
(D) Initial Closed-in Pressure	<u>1123</u>	<u>1117</u>	P.S.I.
(E) Second Initial Flow Pressure	<u>87</u>	<u>91</u>	P.S.I.
(F) Second Final Flow Pressure	<u>157</u>	<u>150</u>	P.S.I.
(G) Final Closed-in Pressure	<u>1094</u>	<u>1099</u>	P.S.I.
(H) Final Hydrostatic Mud	<u>2206</u>	<u>2169</u>	P.S.I.

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

 COMPANY : MUSTANG DRILLING & EXP. WELL NAME : FEHRENBACH #4-34
 ADDRESS : P.O. BOX 1609, GREAT BEND LOCATION : 150'S NE-NE 34-20S-25W
 STATE & COUNTY : KANSAS, NESS FIELD :
 ELEV. (GR) : 2395 (KB) : 2400 TEST DATE : 12-8-1991

EQUIPMENT AND HOLE DATA

 FORMATION TESTED : MISSISSIPPI DRILL PIPE LENGTH(ft) : 4442
 TEST INT. KB : 4470 to 4480 DRILL PIPE O.D.(in) : 3.82
 ANCHOR LENGTH(ft) : 10 WEIGHT PIPE LENGTH(ft) :
 TYPE OF TEST : Conventional WEIGHT PIPE ID : 2.75
 TOTAL DEPTH(ft-kg) : 4480 DRILL COLLAR LENGTH(ft) :
 MAIN HOLE SIZE(in) : 7 7/8 DRILL COLLAR I.D.(in) : 2.259
 MUD WEIGHT : 9.4 TOP PACKER DEPTH(kb) : 4465
 MUD VISCOSITY : 46 BOTTOM PACKER DEPTH(kb) : 4470
 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) : 127 TEST TICKET NUMBER : 11484

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 10 INCHES INTO THE WATER
 2nd Opening : WEAK BLOW-BUILT TO BOTTOM OF BUCKET IN 43 MINUTES

RECOVERY

Recovered 60 feet of GAS IN THE PIPE
 Recovered 5 feet of CLEAN OIL ON TOP
 Recovered 100 feet of SLIGHTLY MUDDY WATER WITH A TRACE OF OIL
 Recovered 200 feet of WATER WITH A VERY SLIGHT TRACE OF OIL
 Recovered 40 feet of WATER CHLORIDES 25000

REMARKS :

WITNESSED BY : HARLEN DIXON

TOOL OPERATOR : GENE BUDIG

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : MUSTANG DRILLING & EXP. WELL NAME : FEHRENBACH #4-34
 DATE OF TEST : 12-8-1991 LOCATION : 150'S NE-NE 34-20S-25W
 DEPTH : 4474.0 SERIAL NO. : 906

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	----- CORRECTED
TEST NO.: 3					
Depth : 4474.0 ft-kb					
-1ST HYDROSTATIC	0.0	3.109	2242.49	-.39	2242.10
-4:45 1ST FLOW	0.0	.057	44.88	-3.51	41.36
- 4:50	5.0	.057	44.88	-3.51	41.36
- 4:55	10.0	.057	44.88	-3.51	41.36
- 5:00	15.0	.057	44.88	-3.51	41.36
- 5:05	20.0	.062	48.48	-3.48	44.99
- 5:10	25.0	.068	52.80	-3.45	49.35
- 5:15	30.0	.075	57.84	-3.41	54.43
-5:15 END FLOW	0.0	.075	57.84	-3.41	54.43
- 5:18	3.0	.916	663.40	1.33	664.73
- 5:21	6.0	1.314	949.99	3.57	953.56
- 5:24	9.0	1.388	1003.27	3.91	1007.18
- 5:27	12.0	1.433	1035.67	3.84	1039.51
- 5:30	15.0	1.455	1051.51	3.80	1055.32
- 5:33	18.0	1.473	1064.47	3.77	1068.25
- 5:36	21.0	1.484	1072.40	3.75	1076.15
- 5:39	24.0	1.491	1077.44	3.74	1081.18
- 5:43	28.0	1.501	1084.64	3.73	1088.36
- 5:46	31.0	1.507	1088.96	3.72	1092.67
- 5:49	34.0	1.513	1093.28	3.71	1096.98
- 5:52	37.0	1.520	1098.32	3.69	1102.01
- 5:55	40.0	1.525	1101.92	3.69	1105.60
- 5:58	43.0	1.530	1105.52	3.68	1109.20
- 6:01	46.0	1.536	1109.84	3.67	1113.51
- 6:03	48.0	1.541	1113.44	3.66	1117.10
-6:03 1ST SHUT-IN	0.0	1.541	1113.44	3.66	1117.10
-6:03 2ND FLOW	0.0	.126	94.56	-3.12	91.44
- 6:08	5.0	.126	94.56	-3.12	91.44
- 6:13	10.0	.126	94.56	-3.12	91.44
- 6:18	15.0	.128	96.00	-3.11	92.89
- 6:23	20.0	.134	100.32	-3.08	97.24
- 6:28	25.0	.140	104.64	-3.04	101.60
- 6:33	30.0	.144	107.52	-3.02	104.50
- 6:38	35.0	.154	114.72	-2.97	111.76
- 6:43	40.0	.162	120.48	-2.92	117.56
- 6:48	45.0	.176	130.56	-2.84	127.72
- 6:53	50.0	.188	139.20	-2.77	136.43
- 6:58	55.0	.198	146.40	-2.72	143.69
- 7:03	60.0	.207	152.88	-2.67	150.22
-7:03 END FLOW	0.0	.207	152.88	-2.67	150.22

ORIGINAL

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

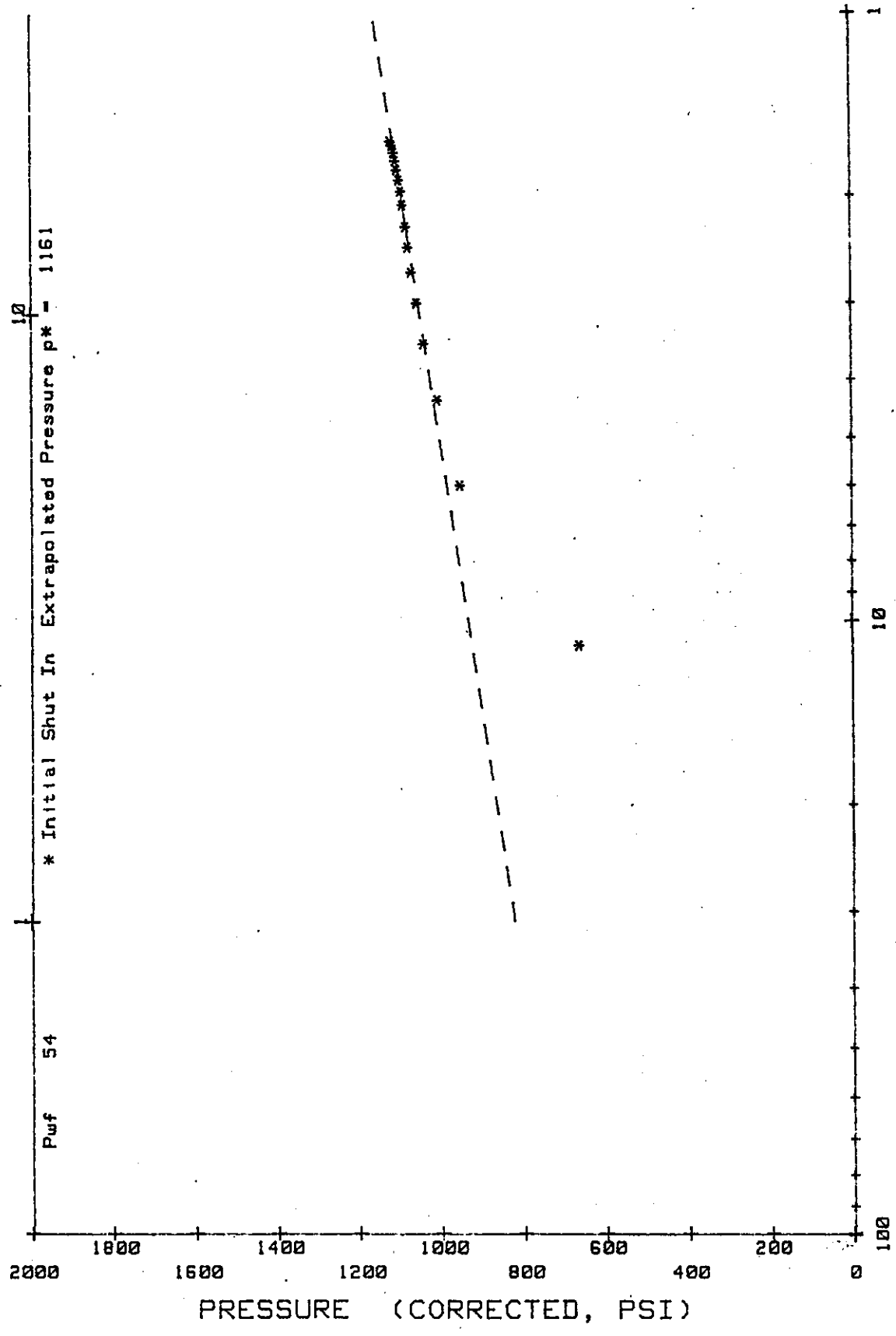
COMPANY : MUSTANG DRILLING & EXP. WELL NAME : FEHRENBACH #4-34
 DATE OF TEST : 12-8-1991 LOCATION : 150'S NE-NE 34-20S-25W
 DEPTH : 4474.0 SERIAL NO. : 906

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO.:3					
- 7:06	3.0	.826	598.60	.82	599.42
- 7:09	6.0	1.241	897.42	3.16	900.58
- 7:12	9.0	1.321	955.03	3.61	958.64
- 7:15	12.0	1.359	982.39	3.82	986.21
- 7:18	15.0	1.384	1000.39	3.92	1004.31
- 7:21	18.0	1.400	1011.91	3.89	1015.80
- 7:24	21.0	1.414	1021.99	3.87	1025.86
- 7:27	24.0	1.427	1031.35	3.85	1035.20
- 7:30	27.0	1.437	1038.55	3.83	1042.39
- 7:33	30.0	1.447	1045.75	3.82	1049.57
- 7:36	33.0	1.457	1052.95	3.80	1056.75
- 7:39	36.0	1.465	1058.71	3.79	1062.50
- 7:42	39.0	1.472	1063.75	3.77	1067.53
- 7:45	42.0	1.479	1068.80	3.76	1072.56
- 7:48	45.0	1.484	1072.40	3.75	1076.15
- 7:51	48.0	1.488	1075.28	3.75	1079.02
- 7:54	51.0	1.490	1076.72	3.74	1080.46
- 7:57	54.0	1.492	1078.16	3.74	1081.90
- 8:00	57.0	1.496	1081.04	3.73	1084.77
- 8:03	60.0	1.499	1083.20	3.73	1086.93
- 8:06	63.0	1.502	1085.36	3.72	1089.08
- 8:09	66.0	1.503	1086.08	3.72	1089.80
- 8:12	69.0	1.506	1088.24	3.72	1091.95
- 8:15	72.0	1.508	1089.68	3.71	1093.39
- 8:18	75.0	1.511	1091.84	3.71	1095.55
- 8:21	78.0	1.511	1091.84	3.71	1095.55
- 8:24	81.0	1.512	1092.56	3.71	1096.26
- 8:27	84.0	1.514	1094.00	3.70	1097.70
- 8:30	87.0	1.515	1094.72	3.70	1098.42
- 8:33	90.0	1.515	1094.72	3.70	1098.42
- 8:36	93.0	1.516	1095.44	3.70	1099.14
-8:36 2ND SHUT-IN	0.0	1.516	1095.44	3.70	1099.14
-2ND HYDROSTATIC	0.0	3.008	2169.76	-.22	2169.54

GAUGE # : 906

DATE : 12-8-1991

LOCATION : 150'S NE-NE 34-20S-25W



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

PRESSURE (CORRECTED, PSI)

ORIGINAL

SUPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

COMPANY : MUSTANG DRILLING & EXP.
 WELL NAME : FEHRENBACH #4-34
 LOCATION : 150'S NE-NE 34-20S-25W
 STATE & COUNTY : KANSAS, NESS
 DATE OF TEST : 12-8-1991
 TEST INT. KB : 4470 to 4480
 TOTAL INTERVAL (ft) K.B. : 10.00
 ELEV.(GR) : 2395 (KB) : 2400
 FIELD :

ELEMENT SERIAL NO. : 906
 LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG -----
Refer. depth :	4474.0 ft-kb		
-5:15 END FLOW	0.00	0.00	54.43
	3.00	11.00	664.73
	6.00	6.00	953.56
	9.00	4.33	1007.26
	12.00	3.50	1039.91
	15.00	3.00	1055.88
	18.00	2.67	1068.94
	21.00	2.43	1076.92
	24.00	2.25	1082.00
	28.00	2.07	1089.26
	31.00	1.97	1093.61
	34.00	1.88	1097.97
	37.00	1.81	1103.05
	40.00	1.75	1106.68
	43.00	1.70	1110.30
	46.00	1.65	1114.66
	48.00	1.63	1118.29
-6:03 1ST SHUT-IN	0.00	0.00	1118.29

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

SUPERIOR TESTERS ENTERPRISES INC.

DATA SUMMARY

COMPANY : MUSTANG DRILLING & EXP. WELL NAME : FEHRENBACH #4-34
DATE OF TEST : 12-8-1991 LOCATION : 150'S NE-NE 34-20S-25W
DST. NO : 3 SHUT-IN PERIOD : 1

INTERPRETIVE DATA (OIL)

EXTRAPOLATED RESERVOIR PRESSURE (psi):	1161.00
Slope of Build-up Curve (psi/log cycle):	224.80
Effective Producing Time (min):	30.00

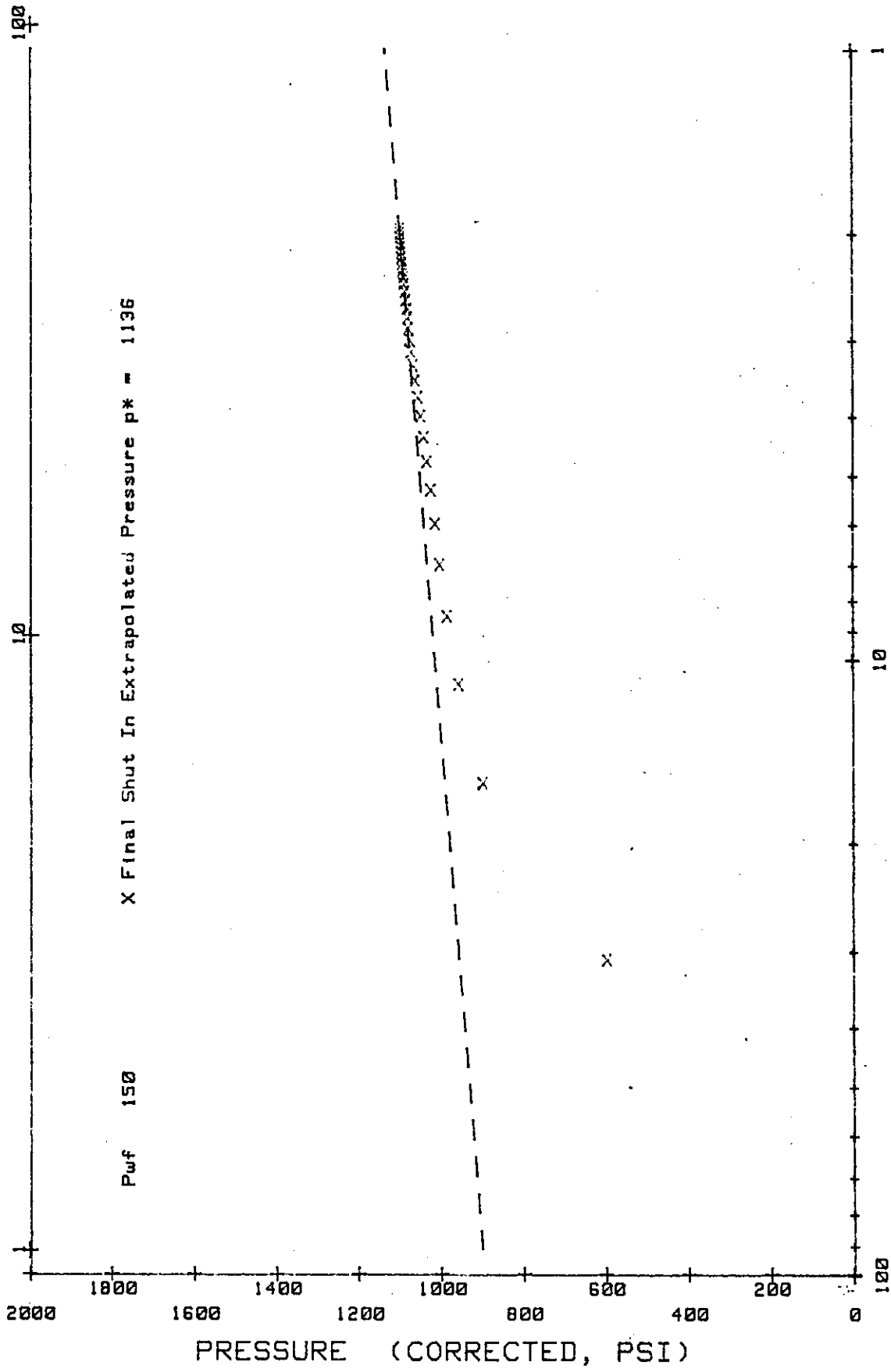
INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

GRUGE # : 906

DATE : 12-8-1991

LOCATION : 150'S NE-NE 34-20S-25W

Pwf 150 X Final Shut In Extrapolated Pressure px = 1136



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

SUPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

COMPANY : MUSTANG DRILLING & EXP.
 WELL NAME : FEHRENBACH #4-34
 LOCATION : 150'S NE-NE 34-20S-25W
 STATE & COUNTY : KANSAS, NESS
 DATE OF TEST : 12-8-1991
 TEST INT. KB : 4470 to 4480
 TOTAL INTERVAL (ft) K.B. : 10.00
 ELEV. (GR) : 2395 (KB) : 2400
 FIELD :

ELEMENT SERIAL NO. : 906
 LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG
Refer. depth :	4474.0 ft-kb		
-7:03 END FLOW	0.00	0.00	150.22
	3.00	31.00	599.42
	6.00	16.00	900.58
	9.00	11.00	958.64
	12.00	8.50	986.21
	15.00	7.00	1004.35
	18.00	6.00	1015.97
	21.00	5.29	1026.12
	24.00	4.75	1035.56
	27.00	4.33	1042.82
	30.00	4.00	1050.07
	33.00	3.73	1057.33
	36.00	3.50	1063.13
	39.00	3.31	1068.21
	42.00	3.14	1073.29
	45.00	3.00	1076.92
	48.00	2.88	1079.83
	51.00	2.76	1081.28
	54.00	2.67	1082.73
	57.00	2.58	1085.63
	60.00	2.50	1087.81
	63.00	2.43	1089.99
	66.00	2.36	1090.71
	69.00	2.30	1092.89
	72.00	2.25	1094.34
	75.00	2.20	1096.52
	78.00	2.15	1096.52
	81.00	2.11	1097.24
	84.00	2.07	1098.69
	87.00	2.03	1099.42

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

SUPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

COMPANY : MUSTANG DRILLING & EXP. WELL NAME : FEHRENBACH #4-34
 DATE OF TEST : 12-8-1991 LOCATION : 150'S NE-NE 34-206-25W
 REFERENCE DEPTH : 4474.0 SERIAL NO. : 906

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG	-----
	90.00	2.00	1099.42	
	93.00	1.97	1100.15	
-8:36 2ND SHUT-IN	0.00	0.00	1100.15	

SUPERIOR TESTERS ENTERPRISES INC.

DATA SUMMARY

COMPANY : MUSTANG DRILLING & EXP. WELL NAME : FEHRENBACH #4-34
 DATE OF TEST : 12-8-1991 LOCATION : 150'S NE-NE 34-20S-25W
 DST. NO : 3 SHUT-IN PERIOD : 2

INTERPRETIVE DATA (OIL)

TRANSMISSIBILITY

Oil (md.ft/cp): 2.47
 Gas (md.ft/cp): 0.00

EFFECTIVE PERMEABILITY

Oil (md):20
 Gas (md): 0.00

TOTAL MOBILITY (md/cp): 9.50

TOTAL COMPRESSIBILITY (psi⁻¹): 6.79E-06

ESTIMATED DAMAGE RATIO: 1.80

CALCULATED DAMAGE RATIO: 1.72

Reservoir Temperature (F): 127.00

Formation Porosity :18

Formation Thickness (ft): 10.00

Wellbore Radius (in): 3.94

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

Calculated Skin Factor : 4.01

PRODUCTION WITH DAMAGE REMOVED (bbl/D): 3.12

PRODUCTIVITY INDEX (bbl/psi): 0.00

Final Flow Pressure (psi): 150.00

APPROXIMATE RADIUS OF INVESTIGATION (ft): 110.19

Total Flowing Time (min): 90.00

EXTRAPOLATED RESERVOIR PRESSURE (psi): 1136.00

Slope of Build-up Curve (psi/log cycle): 119.03

Effective Producing Time (min): 90.00