

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

API NO. 15- 055-21237.0000 ORIGINAL

County Finney

C SE NE 15 Sec. 15 Twp. 21S Rge. 34 X W

3300 Feet from S/N (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 Schmitz Well # 1-15

Field Name Nunn North

Producing Formation Mississippian

Elevation: Ground 2961' KB 2970'

Total Depth 4840' PBDT 4807'

Amount of Surface Pipe Set and Cemented at 301'/200 SXS Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from \_\_\_\_\_

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan all II plugged  
(Data must be collected from the Reserve Pit) 3-8-94  
DFA  
4-15-94

Chloride content \_\_\_\_\_ ppm Fluid volume \_\_\_\_\_ bbls

Dewatering method used \_\_\_\_\_

Location of fluids plugged or hauled offsite:  
**RECEIVED**  
STATE CORPORATION COMMISSION

Operator Name JAN 04 1994

Lease Name \_\_\_\_\_ License No. \_\_\_\_\_

Quarter 4 Sec. 15 Twp. \_\_\_\_\_ S Rng. \_\_\_\_\_ E/W  
**CONSERVATION DIVISION**  
Wichita, Kansas

County: \_\_\_\_\_ Docket No. \_\_\_\_\_

Operator: License # 5652

Name: Mustang Oil & Gas Corporation

Address 100 S. Main, Suite 300

267-8011

City/State/Zip Wichita, KS 67202

Purchaser: Texaco

Operator Contact Person: Wayne L. Brinegar

Phone (316) 267-8011

Contractor: Name: Murfin Drilling Co.

License: 30606

Wellsite Geologist: Arden Ratzlaff

Designate Type of Completion  
 New Well  Re-Entry  Workover

Oil  SWD  SLOW  Temp. Abd.  
 Gas  ENHR  SIGM  
 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. \_\_\_\_\_

9-8-93 9-18-93 10-5-93

Spud Date Date Reached TD Completion Date  
Plugged 3/8/94

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 Wayne L. Brinegar

Title Exploitation/Production Mgr. Date 1-3-94

Subscribed and sworn to before me this 3rd day of January, 19 94.

Notary Public **PATRICIA A. REILLEY**  
NOTARY PUBLIC  
STATE OF KANSAS  
My Appl. Exp. 8-1-95

Patricia A. Reilley  
August 11, 1995

K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Geologist Report Received  
Distribution  
 KCC  SWD/Rep  NGPA  
 KGS  Plug  Other  
(Specify)

Operator Name Mustang Oil & Gas Corporation Lease Name Schmitz Well # 1-15  
 Sec. 15 Twp. 21S Rge. 34  East County Finney  
 West

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	Heebner	3812'	- 842'
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Toronto	3830'	- 860'
List All E.Logs Run:	DIFL/CAL/GR	Lansing	3856'	- 886'
	BHC-AC/CAL/GR	Base Kansas City	4310'	-1340'
	ZDL/CN/GR	Marmaton	4335'	-1365'
	GR/MINILOG	Ft. Scott	4442'	-1472'
		Cherokee	4455'	-1485'
		Morrow	4649'	-1679'
		Mississippian	4702'	-1732'

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> 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" (New)	24#	301'	60/40 Poz	200	3%CC, 2% gel
Production	7-7/8"	4 1/2" (Used)	10.5#	4839'	EA-2	150	1/4#D-AIR, 15% salt, 3/4 of 1% Halad 322, 7% CalSeal, 5#/sx Gilsonite

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
4	4705-4716'	1,500 gals 15% MCA	4705-4716
		2,268 gals MOD 202	"
		4,500 gals MOD 202	"

<b>TUBING RECORD</b>	Size 2-3/8"	Set At 4793.51'	Packer At None	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
10-6-93				
Estimated Production Per 24 Hours	Oil Bbls. 84	Gas Hcf 0	Water Bbls. 12	Gas-Oil Ratio Gravity

Disposition of Gas:	<input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, submit ACO-18.)	METHOD OF COMPLETION	<input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	Production Interval	4705-4716'
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15.055.21237.0000

# Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 9 14 93 Location C SE NE 15-21-34<sup>S</sup> Elevation 2969<sup>ft</sup> County Finney

Company MUSTANG OIL & GAS Corp Number of Copies 5

Charts Mailed to 100 S MAIN WICHITA KS 67203

Drilling Contractor MURFIN Drilling R.S. 28

Length Drill Pipe 4133 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2 XH

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

Length Drill Collars 148 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2 XH

Top Packer Depth 4343 Bottom Packer Depth 4348 Number of Packers Two Packer Size 6 3/4

TESTED FROM 4348 TO 4365 ANCHOR LENGTH 17 TOTAL DEPTH 4365 Hole Size 7 1/8

LEASE & WELL NO. Schmitz 1-15 FORMATION TESTED MARMATON TEST NO. 1

Mud Weight 9.0 Viscosity 47 Water Loss 9.6 Chlorides - Pits 2000 D.S.T. \_\_\_\_\_

Maximum Temp. 111 °F Initial Hydrostatic Pressure (A) 2094 P.S.I. Final Hydrostatic Pressure (H) 2073 P.S.I.

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

Tool Closed I.C.I.P. from 630 m to 700 m 90 min

Tool Open F.F.P. from 700 m to 730 m 30 min

Tool Closed F.C.I.P. from 730 m to 800 m 30 min

Initial Blow WEAK BLOW Building slowly

Final Blow WEAK Blow off Top Died 14" INTO opening

Total Feet Recovered 20 slightly oil cut mud 4% oil Gravity of Oil \_\_\_\_\_ Correct \_\_\_\_\_

_____ 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 405 Extra Packer NONE Straddle NONE Hook Wall NONE

Top Recorder No. 13561 Clock No. 13056 Depth 47 59 Cir. Sub \_\_\_\_\_ Sampler NONE

Bottom Recorder No. 3875 Clock No. 27957 Depth 47 62 Insurance N/A

Price of Job \_\_\_\_\_

Tool Operator PAT STEVENSON

Approved By NO 12122

Superior Testers Enterprises, Inc. shall not be liable for damage of any kind to property or personnel of the one for whom a test is made, or for any loss suffered sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# SUPERIOR TESTERS ENTERPRISES INC.

## SUBSURFACE PRESSURE MEASUREMENTS

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COMPANY : MUSTANG OIL AND GAS CORP. WELL NAME : SCHMITZ #1-15  
 DATE OF TEST : 9-14-1993 LOCATION : C-SE-NE 15-21S-34W  
 DEPTH : 4359.0 SERIAL NO. : 13561

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	----- CORRECTED
TEST NO.: 1					
Depth : 4359.0 ft-kb					
1ST HYDROSTATIC	0.0	2.033	2131.41	-1.93	2129.47
5:00 1ST FLOW	0.0	.066	69.64	-.31	69.33
- 6:05	5.0	.050	52.87	-.35	52.52
- 6:10	10.0	.039	41.34	-.38	40.97
- 6:15	15.0	.037	39.25	-.38	38.87
- 6:20	20.0	.037	39.25	-.38	38.87
- 6:25	25.0	.037	39.25	-.38	38.87
- 6:30	30.0	.037	39.25	-.38	38.87
6:30 END FLOW	0.0	.037	39.25	-.38	38.87
- 6:35	5.0	.038	40.29	-.38	39.92
- 6:40	10.0	.041	43.44	-.37	43.07
- 6:45	15.0	.049	51.82	-.35	51.47
- 6:50	20.0	.058	61.26	-.33	60.92
- 6:55	25.0	.070	73.84	-.31	73.53
- 7:00	30.0	.079	83.27	-.29	82.98
7:00 1ST SHUT-IN	0.0	.079	83.27	-.29	82.98
7:00 2ND FLOW	0.0	.053	56.02	-.34	55.67
- 7:05	5.0	.051	53.92	-.35	53.57
- 7:10	10.0	.047	49.73	-.36	49.37
- 7:15	15.0	.045	47.63	-.36	47.27
- 7:20	20.0	.042	44.49	-.37	44.12
- 7:25	25.0	.042	44.49	-.37	44.12
- 7:30	30.0	.042	44.49	-.37	44.12
7:30 END FLOW	0.0	.042	44.49	-.37	44.12
- 7:35	5.0	.042	44.49	-.37	44.12
- 7:40	10.0	.043	45.53	-.37	45.17
- 7:45	15.0	.045	47.63	-.36	47.27
- 7:50	20.0	.049	51.82	-.35	51.47
- 7:55	25.0	.051	53.92	-.35	53.57
- 8:00	30.0	.061	64.40	-.33	64.08
8:00 2ND SHUT-IN	0.0	.061	64.40	-.33	64.08
2ND HYDROSTATIC	0.0	1.968	2063.28	-2.22	2061.05

SUPERIOR TESTERS ENTERPRISES INC.

ORIGINAL

WELL IDENTIFICATION DATA

COMPANY : MUSTANG OIL AND GAS CORP. WELL NAME : SCHMITZ #1-15  
 ADDRESS : 100 S.MAIN.WICHITA LOCATION : C-SE-NE 15-21S-34W  
 STATE & COUNTY : KANSAS,FINNEY FIELD :  
 REV.(GR) : (KB) : 2969 TEST DATE : 9-14-1993

EQUIPMENT AND HOLE DATA

FORMATION TESTED : MARMATON	DRILL PIPE LENGTH(ft) : 4173
TEST INT. KB : 4348 to 4365	DRILL PIPE O.D.(in) : 3.82
ANCHOR LENGTH(ft) : 17	WEIGHT PIPE LENGTH(ft) :
TYPE OF TEST : Conventional	WEIGHT PIPE ID : 2.75
TOTAL DEPTH(ft-kb) : 4365	DRILL COLLAR LENGTH(ft) : 148
MIN HOLE SIZE(in) : 7 7/8	DRILL COLLAR I.D.(in) : 2.259
FLOW WEIGHT : 9.0	TOP PACKER DEPTH(kb) : 4343
FLOW VISCOSITY : 47	BOTTOM PACKER DEPTH(kb) : 4348
FLOW CHLORIDES : 2000	DUAL PACKERS :
WELLFACE CHOKE : 3/4	PACKER SIZE(in) : 6 3/4
BOTTOM CHOKE(in) : 3/4	PACKER HOLD : Yes
PIPE SIZE(O.D.) : 5 1/2	TOOL PLUG : No
PIPE JOINT SIZE(F.H.) : 4 1/2	REVERSED OUT : No
RESERVOIR TEMPERATURE(F) : 111	TEST TICKET NUMBER : 12122

ADDITIONAL EQUIPMENT : -JARS -SAFETY JOINT

EQUIPMENT SERIAL NO. : 13561  
 RANGE : 0 - 4175 CLOCK RANGE : 12 HOURS  
 L. EQU. : 1048.18 \* Defl. + .46

WELLFACE BLOW

First Opening : WEAK BLOW BUILT TO 3/4 INCH INTO THE WATER  
 Second Opening : WEAK BLOW DIED IN 14 MINUTES

RECOVERY

Recovered 20 feet of SLIGHTLY OIL CUT MUD 4% OIL

REMARKS :

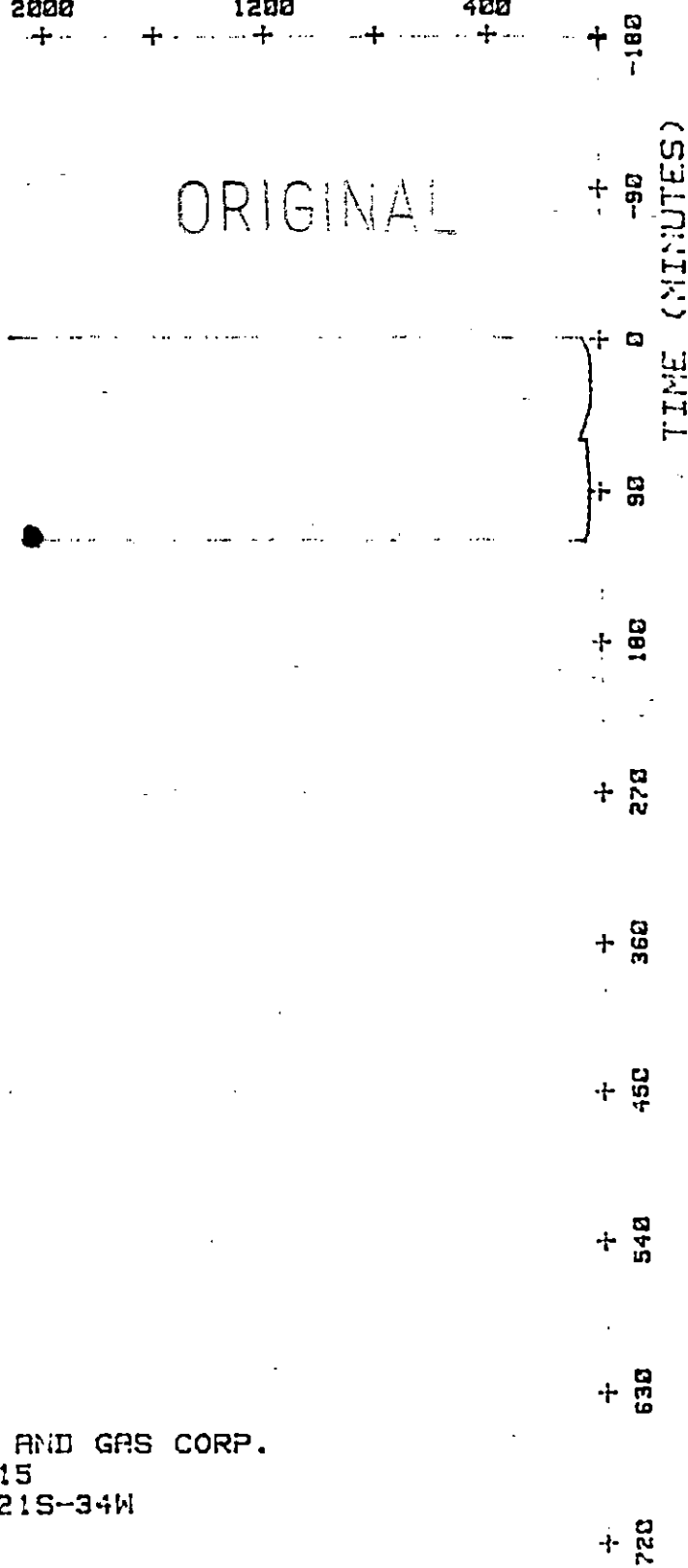
TESTED BY : ARDEN RATZLAFF TOOL OPERATOR : PAT STEVENSON

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

PRESSURE ( P S I G )

4000      3600      3200      2800      2400      2000      1600      1200      800      0  
 +      +      +      +      +      +      +      +      +      +

ORIGINAL



COMPANY : MUSTANG OIL AND GAS CORP.  
 WELL : SCHMITZ #1-15  
 LOCATION : C-SE-NE 15-21S-34W  
 DATE : 9-14-1993  
 GAUGE # : 13561

# Superior Testers Enterprises, Inc.

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

Date 9 15 93 Location C SE NE 15 21<sup>S</sup>-34<sup>W</sup> Elevation 2969 <sup>KB</sup> County FINNEY

Company MUSTANG OIL & GAS Corp. Number of Copies 5

Charts Mailed to 100 S MAIN WICHITA KS 67202

Drilling Contractor MURFIN R16 20'

Length Drill Pipe 4243 I.D. Drill Pipe 3 80 Tool Joint Size 4 1/2 X 4

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

Length Drill Collars 148 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2 X 4

Top Packer Depth 4360 Bottom Packer Depth 4365 Number of Packers Two Packer Size 6 3/4

TESTED FROM 4365 TO 4438 ANCHOR LENGTH 73 TOTAL DEPTH 4438 Hole Size 7 1/2

LEASE & WELL NO. SCHMITZ 1-U FORMATION TESTED MARNTON TEST NO. 2

Mud Weight 9.2 Viscosity 47 Water Loss 9.6 Chlorides - Pits 2000 D.S.T. \_\_\_\_\_

Maximum Temp. 113 °F Initial Hydrostatic Pressure (A) 2136 P.S.I. Final Hydrostatic Pressure (H) 2115 P.S.I.

Tool Open I.F.P. from 1200 m to 1230 m 30 min

Tool Closed I.C.I.P. from 1230 m to 100 m 30 min

Tool Open F.F.P. from 100 m to 130 m 30 min

Tool Closed F.C.I.P. from 130 m to 200 m 30 min

Initial Blow WEAK Blow 1/2" into water

Final Blow NO BLOW

Total Feet Recovered 15' Drilling MVP slight show 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 _____	% Gas _____	% Oil _____	% Mud _____	% Water _____

ORIGINAL

Remarks \_\_\_\_\_

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

Top Recorder No. 12511 Clock No. 13056 Depth 4432 Cir. Sub \_\_\_\_\_ Sampler NONE

Bottom Recorder No. 3815 Clock No. 23937 Depth 4425 Insurance N/A

Price of Job \_\_\_\_\_  
Tool Operator PAY STEVENSON

Approved By \_\_\_\_\_  
NS 12123

from [B] <u>94</u>	P.S.I. to [C] <u>73</u>	P.S.I. _____
[D] _____	<u>714</u>	P.S.I. _____
from [E] <u>94</u>	P.S.I. to [F] <u>73</u>	P.S.I. _____
[G] _____	<u>598</u>	P.S.I. _____

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





ORIGINAL

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : MUSTANG OIL AND GAS CORP. WELL NAME : SCHMITZ #1-15  
ADDRESS : 100 S. MAIN, WICHITA LOCATION : C-SE-NE 15-21S-34W  
STATE & COUNTY : KANSAS, FINNEY FIELD :  
WELL NO. (GR) : (KB) : 2969 TEST DATE : 9-15-1993

EQUIPMENT AND HOLE DATA

FORMATION TESTED : MARMATON DRILL PIPE LENGTH(ft) : 4243  
MUD INT. KB : 4365 to 4438 DRILL PIPE O.D.(in) : 3.82  
DRILL PIPE LENGTH(ft) : 73 WEIGHT PIPE LENGTH(ft) :  
TYPE OF TEST : Conventional WEIGHT PIPE ID : 2.75  
MUD DEPTH(ft-kg) : 4438 DRILL COLLAR LENGTH(ft) : 148  
MUD HOLE SIZE(in) : 7 7/8 DRILL COLLAR I.D.(in) : 2.259  
MUD WEIGHT : 9.2 TOP PACKER DEPTH(kb) : 4360  
MUD VISCOSITY : 47 BOTTOM PACKER DEPTH(kb) : 4365  
MUD CHLORIDES : 2000 DUAL PACKERS :  
MUD FACE CHOKE : 3/4 PACKER SIZE(in) : 6 3/4  
MUD BOTTOM CHOKE(in) : 3/4 PACKER HOLD : Yes  
MUD SIZE(O.D.) : 5 1/2 TOOL PLUG : No  
MUD JOINT SIZE(F.H.) : 4 1/2 REVERSED OUT : No  
MUD RESERVOIR TEMPERATURE(F) : 113 TEST TICKET NUMBER : 1123

SHAFT EQUIPMENT : -JARS -SAFETY JOINT

WELL IDENTIFICATION SERIAL NO. : 13561  
MUD GRADE : 0 - 4175 CLOCK RANGE : 12 HOURS  
MUD EQU. : 1048.18 \* Defl. + .46

FACE BLOW

Opening : WEAK BLOW BUILT TO 1/4 INCH INTO THE WATER  
Opening : NO BLOW

DRILLERY

Drilled 15 feet of DRILLING MUD WITH A SLIGHT SHOW OF OIL

WELLS :

PREPARED BY : ARDEN RATZLAFF TOOL OPERATOR : PAT STEVENSON

ORIGINAL

SUPERIOR TESTERS ENTERPRISES INC.

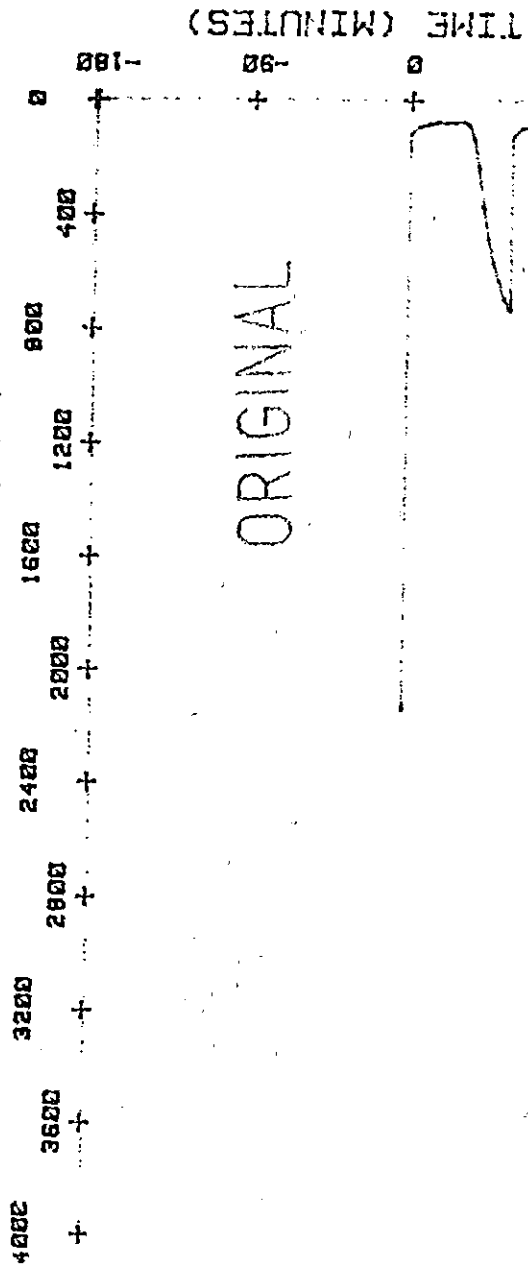
SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : MUSTANG OIL AND GAS CORP. WELL NAME : SCHMITZ #1-15  
 DATE OF TEST : 9-15-1993 LOCATION : C-SE-NE 15-21S-34W  
 DEPTH : 4432.0 SERIAL NO. : 13561

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			CALC	CORR	CORRECTED
TEST NO.: 2					
Depth : 4432.0 ft-kb					
12:00 1ST HYDROSTATIC	0.0	2.042	2140.84	-1.89	2138.95
12:00 1ST FLOW	0.0	.109	114.71	-.22	114.50
- 12:05	5.0	.087	91.65	-.27	91.39
- 12:10	10.0	.080	84.32	-.28	84.03
- 12:15	15.0	.074	78.03	-.30	77.73
- 12:20	20.0	.074	78.03	-.30	77.73
- 12:25	25.0	.073	76.98	-.30	76.68
- 12:30	30.0	.073	76.98	-.30	76.68
12:30 END FLOW	0.0	.073	76.98	-.30	76.68
- 12:33	3.0	.081	85.37	-.28	85.08
- 12:36	6.0	.125	131.48	-.18	131.30
- 12:39	9.0	.218	228.97	.03	228.99
- 12:42	12.0	.351	368.37	.32	368.70
- 12:45	15.0	.460	482.62	.57	483.19
- 12:48	18.0	.538	564.38	.74	565.13
- 12:51	21.0	.601	630.42	.89	631.30
- 12:54	24.0	.655	687.02	1.01	688.03
- 12:57	27.0	.692	725.80	1.09	726.89
- 12:58	28.0	.700	734.19	1.11	735.29
12:58 1ST SHUT-IN	0.0	.700	734.19	1.11	735.29
1:08 2ND FLOW	0.0	.117	123.10	-.20	122.90
- 1:03	5.0	.092	96.90	-.26	96.64
- 1:08	10.0	.085	89.56	-.27	89.29
- 1:13	15.0	.084	88.51	-.27	88.24
- 1:18	20.0	.084	88.51	-.27	88.24
- 1:23	25.0	.080	84.32	-.28	84.03
- 1:28	30.0	.080	84.32	-.28	84.03
1:28 END FLOW	0.0	.080	84.32	-.28	84.03
- 1:31	3.0	.084	88.51	-.27	88.24
- 1:34	6.0	.097	102.14	-.25	101.89
- 1:37	9.0	.105	110.52	-.23	110.29
- 1:40	12.0	.208	218.48	0.00	218.49
- 1:43	15.0	.291	305.48	.19	305.67
- 1:46	18.0	.387	406.11	.41	406.51
- 1:49	21.0	.462	484.72	.57	485.29
- 1:52	24.0	.530	556.00	.73	556.72
- 1:55	27.0	.579	607.36	.84	608.19
- 1:56	28.0	.585	613.65	.85	614.50
1:56 2ND SHUT-IN	0.0	.585	613.65	.85	614.50
1:56 2ND HYDROSTATIC	0.0	2.005	2102.06	-2.06	2100.00

2

PRESSURE ( P S I G )



ORIGINAL

COMPANY : MUSTANG OIL AND GAS CORP.  
 WELL : SCHMITZ #1-15  
 LOCATION : C-SE-1/E 15-21S-34W  
 DATE : 9-15-1993  
 GAUGE # : 13561

# Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 9 16 93 Location 15 215-34<sup>w</sup> Elevation 2969<sup>ft</sup> County FINNEY

Company MUSTANG OIL & GAS Corp Number of Copies \_\_\_\_\_

Charts Mailed to 100 S MAIN, WICHITA KS 67202

Drilling Contractor MURFIN R.G. 20<sup>th</sup>

Length Drill Pipe 4453 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2 X 7/8

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

Length Drill Collars 148 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2 X 7/8

Top Packer Depth 4701 Bottom Packer Depth 4706 Number of Packers Two Packer Size 6 3/4

TESTED FROM 4706 TO 4720 ANCHOR LENGTH 14 TOTAL DEPTH 4720 Hole Size 7

LEASE & WELL NO. Schmitz 1-15 FORMATION TESTED MISS TEST NO. \_\_\_\_\_

Mud Weight 9.3 Viscosity 44 Water Loss 11.2 Chlorides - Pits 3,000 D.S.T. \_\_\_\_\_

Maximum Temp. 110 °F Initial Hydrostatic Pressure (A) 2360 P.S.I. Final Hydrostatic Pressure (H) 2345

Tool Open I.F.P. from 1030 m to 1100 m 30 min

Tool Closed I.C.I.P. from 1100 m to 1145 m 45 min

Tool Open F.F.P. from 1145 m to 1245 m 60 min

Tool Closed F.C.I.P. from 1245 m to 215 m 90 min

Initial Blow WEAK Building slowly off Bottom 24<sup>th</sup>

Final Blow WEAK Building slowly off Bottom 174

Total Feet Recovered 540 GARIN pip 195' OIL CUT MVP Gravity of Oil 33 Cor: \_\_\_\_\_

75 Feet of Clean oil 8 % Gas 90 % Oil 2 % Mud \_\_\_\_\_ %

60 Feet of OIL & GAS CUT MVP 18 % Gas 10 % Oil 72 % Mud \_\_\_\_\_ %

60 Feet of oil cut MVP 0 % Gas 12 % Oil 88 % Mud \_\_\_\_\_ %

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ %

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ %

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\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ %

Remarks \_\_\_\_\_

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

Top Recorder No. 17561 Clock No. 17056 Depth 4714 Cir. Sub \_\_\_\_\_ Sampler none

Bottom Recorder No. 2875 Clock No. 27937 Depth 4717 Insurance NA

Price of Job \_\_\_\_\_

Tool Operator PAT STEVENSON

Approved By \_\_\_\_\_

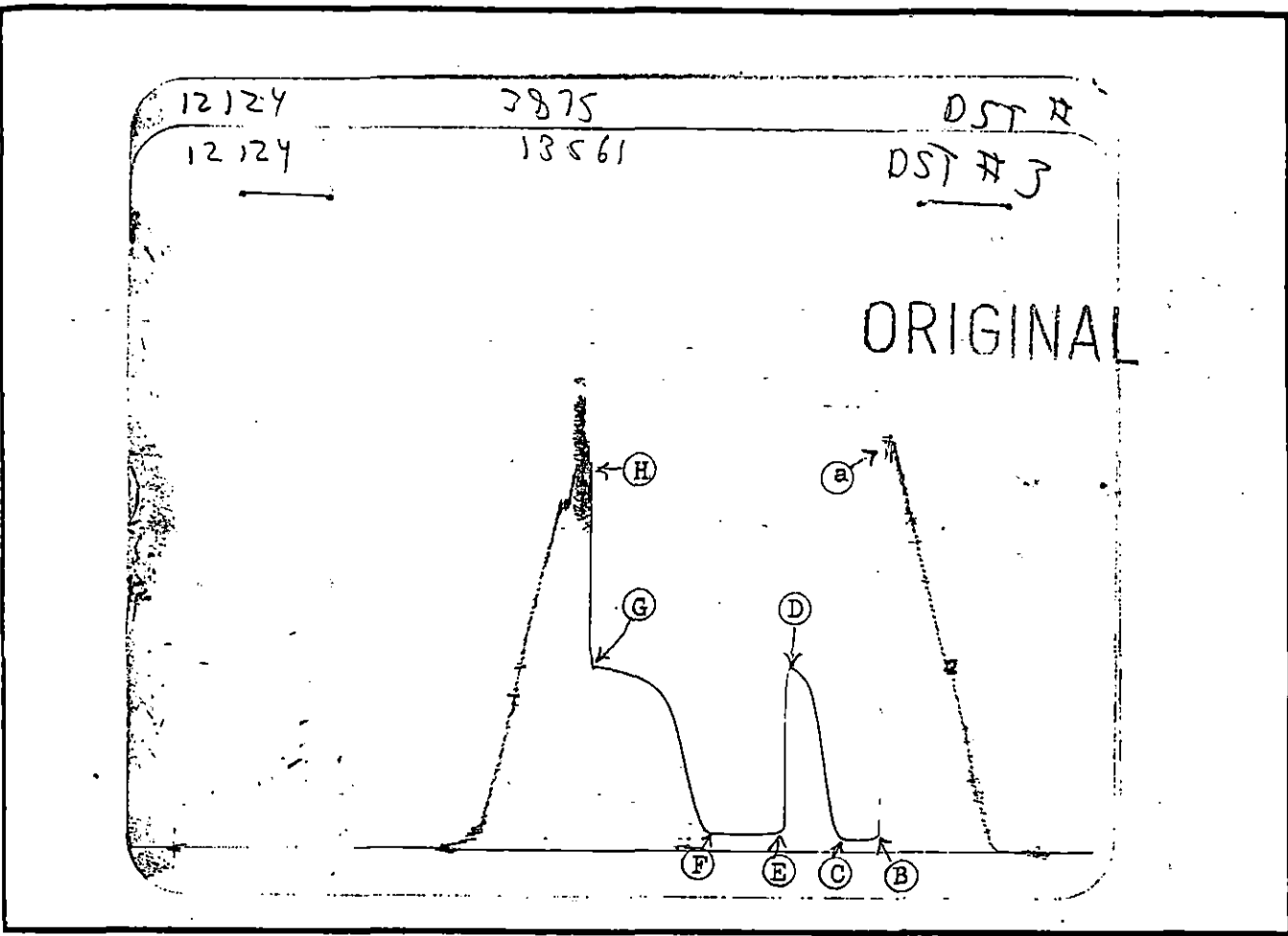
NO 12124

from [B]	<u>84</u>	P.S.I. to [C]	<u>73</u>
[D]	<u>1060</u>		
from [E]	<u>105</u>	P.S.I. to [F]	<u>105</u>
[G]	<u>1070</u>		

ORIGINAL

Superior Testers Enterprises, Inc. shall not be liable for damage of any kind property or personnel of the one for whom a test is made, or for any loss sustained, directly or indirectly, through the use of its equipment, or its statement opinion concerning the results of any test. Tools lost or damaged in the hole paid for at cost by the party for whom the test is made.

API# 15-055-21237



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud .....	<u>2360</u>	<u>2364</u>	P.S.I.
(B) First Initial Flow Pressure .....	<u>84</u>	<u>105</u>	P.S.I.
(C) First Final Flow Pressure .....	<u>73</u>	<u>71</u>	P.S.I.
(D) Initial Closed-in Pressure .....	<u>1060</u>	<u>1060</u>	P.S.I.
(E) Second Initial Flow Pressure .....	<u>105</u>	<u>140</u>	P.S.I.
(F) Second Final Flow Pressure .....	<u>105</u>	<u>107</u>	P.S.I.
(G) Final Closed-in Pressure .....	<u>1070</u>	<u>1058</u>	P.S.I.
(H) Final Hydrostatic Mud .....	<u>2345</u>	<u>2323</u>	P.S.I.

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ORIGINAL

PERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : MUSTANG OIL AND GAS CORP. WELL NAME : SCHMITZ #1-15  
ADDRESS : 100 S.MAIN.WICHITA LOCATION : C-SE-NE 15-21S-34W  
COUNTY : KANSAS.FINNEY FIELD :  
WELL NO. (KB) : 2969 TEST DATE : 9-16-1993

EQUIPMENT AND HOLE DATA

FORMATION TESTED : MISSISSIPPI DRILL PIPE LENGTH(ft) : 4453  
DEPTH (KB) : 4706 to 4720 DRILL PIPE O.D.(in) : 3.82  
DRILL PIPE LENGTH(ft) : 14 WEIGHT PIPE LENGTH(ft) :  
TYPE OF TEST : Conventional WEIGHT PIPE ID : 2.75  
DEPTH(ft-kg) : 4720 DRILL COLLAR LENGTH(ft) : 148  
HOLE SIZE(in) : 7 7/8 DRILL COLLAR I.D.(in) : 2.259  
HOLE WEIGHT : 9.3 TOP PACKER DEPTH(kb) : 4701  
VISCOSITY : 44 BOTTOM PACKER DEPTH(kb) : 4706  
SOLIDS : 3000 DUAL PACKERS :  
HOLE CHOKES : 3/4 PACKER SIZE(in) : 6 3/4  
HOLE CHOKES(in) : 3/4 PACKER HOLD : Yes  
HOLE SIZE(O.D.) : 5 1/2 TOOL PLUG : No  
HOLE JOINT SIZE(F.H.) : 4 1/2 REVERSED OUT : No  
HOLE TEMPERATURE(F) : 110 TEST TICKET NUMBER : 12124

EQUIPMENT : -JARS -SAFETY JOINT

WELL SERIAL NO. : 13561  
WELL NO. : 0 - 4175 CLOCK RANGE :  
WELL NO. : 1048.18 \* Def1. + .46

WELL BLOW

WELL Opening : WEAK BLOW BUILT TO BOTTOM OF THE BUCKET IN 24 MIN.  
WELL Opening : WEAK BLOW BUILT TO BOTTOM OF THE BUCKET IN 17 MIN.

WELL LOG

WELL 540 feet of GAS IN THE PIPE  
WELL 75 feet of CLEAN GASSY OIL-GRAVITY 33 CORRECTED  
WELL 60 feet of OIL AND GAS CUT MUD  
WELL 60 feet of OIL CUT MUD

WELL OPERATED BY : ARDEN RATZLAFF TOOL OPERATOR : PAT STEVENSON

WELL INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

ORIGINAL

PERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

MUSTANG OIL AND GAS CORP. WELL NAME : SCHMITZ #1-15  
 TEST : 9-16-1993 LOCATION : C-SE-NE 15-21S-34W  
 4714.0 SERIAL NO. : 13561

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	----- CORRECTED
0.13					
4714.0 ft-kb					
HYDROSTATIC	0.0	2.256	2365.15	-.94	2364.21
1ST FLOW	0.0	.100	105.28	-.24	105.04
- 10:35	5.0	.077	81.17	-.29	80.88
- 10:40	10.0	.072	75.93	-.30	75.63
- 10:45	15.0	.069	72.79	-.31	72.48
- 10:50	20.0	.070	73.84	-.31	73.53
- 10:55	25.0	.070	73.84	-.31	73.53
- 11:00	30.0	.068	71.74	-.31	71.43
END FLOW	0.0	.068	71.74	-.31	71.43
- 11:01	1.0	.075	79.08	-.29	78.78
- 11:02	2.0	.078	82.22	-.29	81.93
- 11:03	3.0	.082	86.41	-.28	86.13
- 11:04	4.0	.089	93.75	-.26	93.49
- 11:05	5.0	.097	102.14	-.25	101.89
- 11:06	6.0	.108	113.67	-.22	113.45
- 11:07	7.0	.123	129.39	-.19	129.20
- 11:08	8.0	.138	145.11	-.15	144.96
- 11:09	9.0	.162	170.27	-.10	170.17
- 11:10	10.0	.189	198.57	-.04	198.53
- 11:11	11.0	.237	248.88	.07	248.95
- 11:12	12.0	.271	284.52	.15	284.66
- 11:13	13.0	.325	341.12	.27	341.39
- 11:14	14.0	.373	391.43	.37	391.81
- 11:15	15.0	.407	427.07	.45	427.52
- 11:18	18.0	.567	594.78	.81	595.59
- 11:21	21.0	.716	750.96	1.14	752.10
- 11:24	24.0	.826	866.26	1.39	867.65
- 11:27	27.0	.896	939.63	1.55	941.18
- 11:30	30.0	.936	981.56	1.64	983.19
- 11:33	33.0	.960	1006.71	1.64	1008.35
- 11:36	36.0	.980	1027.68	1.55	1029.23
- 11:39	39.0	.996	1044.45	1.48	1045.93
- 11:42	42.0	1.010	1059.12	1.42	1060.54
142 1ST SHUT-IN	0.0	1.010	1059.12	1.42	1060.54
142 2ND FLOW	0.0	.134	140.92	-.16	140.76
- 11:47	5.0	.109	114.71	-.22	114.50
- 11:52	10.0	.102	107.38	-.23	107.14
- 11:57	15.0	.101	106.33	-.24	106.09
- 12:02	20.0	.100	105.28	-.24	105.04
- 12:07	25.0	.100	105.28	-.24	105.04



ORIGINAL

ERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

MUSTANG OIL AND GAS CORP. WELL NAME : SCHMITZ #1-15  
 TEST : 9-16-1993 LOCATION : C-SE-NE 15-21S-34W  
 4714.0 SERIAL NO. : 13561

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			CALC	CORR	CORRECTED
1:3					
- 12:12	30.0	.100	105.28	-.24	105.04
- 12:16	34.0	.100	105.28	-.24	105.04
- 12:21	39.0	.100	105.28	-.24	105.04
- 12:26	44.0	.100	105.28	-.24	105.04
- 12:32	50.0	.101	106.33	-.24	106.09
- 12:37	55.0	.102	107.38	-.23	107.14
- 12:42	60.0	.102	107.38	-.23	107.14
END FLOW	0.0	.102	107.38	-.23	107.14
- 12:43	1.0	.102	107.38	-.23	107.14
- 12:44	2.0	.105	110.52	-.23	110.29
- 12:45	3.0	.108	113.67	-.22	113.45
- 12:46	4.0	.114	119.95	-.21	119.75
- 12:47	5.0	.121	127.29	-.19	127.10
- 12:48	6.0	.129	135.69	-.17	135.50
- 12:49	7.0	.139	146.16	-.15	146.01
- 12:50	8.0	.154	161.88	-.12	161.76
- 12:51	9.0	.170	178.65	-.08	178.57
- 12:52	10.0	.188	197.52	-.04	197.48
- 12:53	11.0	.208	218.48	0.00	218.49
- 12:54	12.0	.233	244.69	.06	244.75
- 12:55	13.0	.254	266.70	.11	266.81
- 12:56	14.0	.283	297.10	.17	297.27
- 12:57	15.0	.308	323.30	.23	323.53
- 13:00	18.0	.392	411.35	.42	411.76
- 13:03	21.0	.487	510.93	.63	511.55
- 13:06	24.0	.583	611.55	.84	612.39
- 13:09	27.0	.671	703.79	1.04	704.83
- 13:12	30.0	.746	782.40	1.21	783.61
- 13:15	33.0	.795	833.76	1.32	835.08
- 13:18	36.0	.834	874.64	1.41	876.05
- 13:21	39.0	.865	907.14	1.48	908.61
- 13:24	42.0	.887	930.20	1.53	931.72
- 13:27	45.0	.904	948.01	1.56	949.58
- 13:30	48.0	.917	961.64	1.59	963.24
- 13:33	51.0	.929	974.22	1.62	975.84
- 13:36	54.0	.939	984.70	1.64	986.34
- 13:39	57.0	.949	995.18	1.67	996.85
- 13:42	60.0	.957	1003.57	1.65	1005.22
- 13:45	63.0	.965	1011.95	1.62	1013.57
- 13:48	66.0	.972	1019.29	1.59	1020.88

ORIGINAL

PERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

WELL : MUSTANG OIL AND GAS CORP. WELL NAME : SCHMITZ #1-15  
TEST : 9-16-1993 LOCATION : C-SE-NE 15-21S-34W  
4714.0 SERIAL NO. : 13561

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
0.3					
- 13:51	69.0	.978	1025.58	1.56	1027.14
- 13:54	72.0	.983	1030.82	1.54	1032.36
- 13:57	75.0	.988	1036.06	1.52	1037.58
- 14:00	78.0	.993	1041.30	1.49	1042.80
- 14:03	81.0	.998	1046.54	1.47	1048.02
- 14:06	84.0	1.001	1049.69	1.46	1051.15
- 14:09	87.0	1.004	1052.83	1.45	1054.28
- 14:12	90.0	1.008	1057.03	1.43	1058.46
2ND SHUT-IN	0.0	1.008	1057.03	1.43	1058.46
HYDROSTATIC	0.0	2.217	2324.27	-1.11	2323.16

CALCULATED RECOVERY ANALYSIS

ORIGINAL

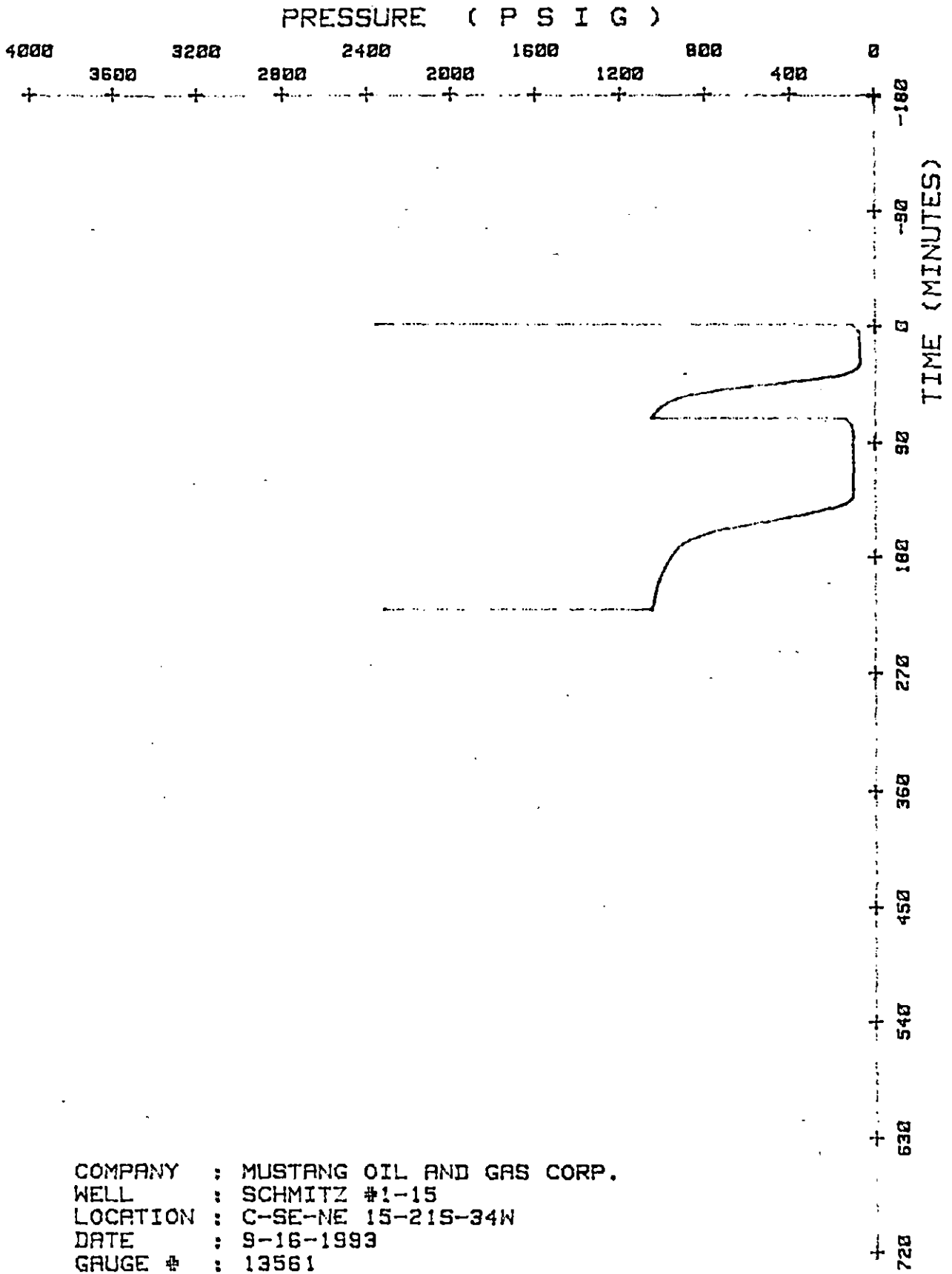
Number: 3

Test ticket number: 12124

Total Feet	***** Gas **** %	***** Oil **** Feet	***** Oil **** %	***** Mud **** Feet	***** Mud **** %	***** Mud **** Feet
540	100.00	540.00	0.00	0.00	0.00	0.00
75	8.00	6.00	90.00	67.50	2.00	1.50
60	18.00	10.80	10.00	6.00	72.00	43.20
60	0.00	0.00	12.00	7.20	88.00	52.80
735	75.76	556.80	10.98	80.70	13.27	97.50

Total Feet	**** WATER **** %	**** WATER **** Feet	Chlorides (ppm)	Resistivity (ohms)	Temperature (deg)
540	0.00	0.00	0.00	0.00	0.00
75	0.00	0.00	0.00	0.00	0.00
60	0.00	0.00	0.00	0.00	0.00
60	0.00	0.00	0.00	0.00	0.00
735	0.00	0.00			

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.



COMPANY : MUSTANG OIL AND GAS CORP.  
 WELL : SCHMITZ #1-15  
 LOCATION : C-SE-NE 15-215-34W  
 DATE : 9-16-1993  
 GAUGE # : 13561

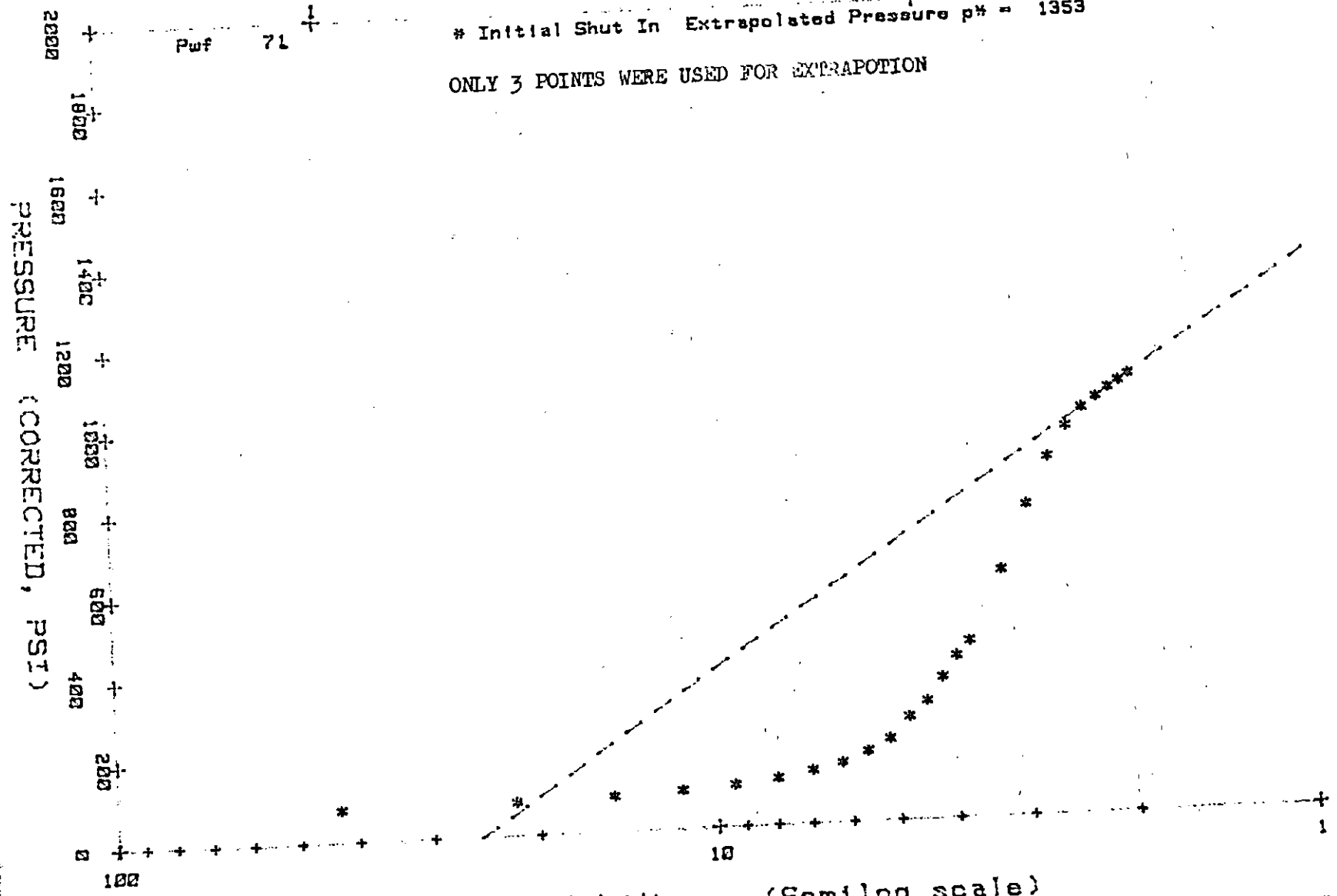
GAUGE # : 13561

LOCATION : C-SE-NE 15-21S-34W

DATE : 9-16-1993

# Initial Shut In Extrapolated Pressure  $p^* = 1353$

ONLY 3 POINTS WERE USED FOR EXTRAPOTION



ORIGINAL

PERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

ORIGINAL

COMPANY : MUSTANG OIL AND GAS CORP.  
 NAME : SCHMITZ #1-15  
 LOCATION : C-SE-NE 15-21S-34W  
 COUNTY : KANSAS.FINNEY  
 DATE OF TEST : 9-16-1993  
 START KB : 4706 to 4720  
 INTERVAL (ft) K.B. : 14.00  
 (GR) : (KB) : 2969

INSTRUMENT SERIAL NO. : 13561  
 TEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG -----
Test depth :	4714.0 ft-kb		
00 END FLOW	0.00	0.00	71.43
	1.00	43.00	78.78
	2.00	22.00	81.93
	3.00	15.00	86.13
	4.00	11.50	93.49
	5.00	9.40	101.89
	6.00	8.00	113.45
	7.00	7.00	129.20
	8.00	6.25	144.96
	9.00	5.67	170.17
	10.00	5.20	198.53
	11.00	4.82	248.95
	12.00	4.50	284.66
	13.00	4.23	341.39
	14.00	4.00	391.81
	15.00	3.80	427.52
	18.00	3.33	595.59
	21.00	3.00	752.10
	24.00	2.75	867.65
	27.00	2.56	941.18
	30.00	2.40	983.19
	33.00	2.27	1008.40
	36.00	2.17	1029.41
	39.00	2.08	1046.22
	42.00	2.00	1060.92
012 1ST SHUT-IN	0.00	0.00	1060.92

ORIGINAL

SUPERIOR TESTERS ENTERPRISES INC.

DATA SUMMARY

WELL : MUSTANG OIL AND GAS CORP. WELL NAME : SCHMITZ #1-15  
TEST : 9-16-1993 LOCATION : C-SE-NE 15-21S-34W  
DAYS : 3 SHUT-IN PERIOD : 1

INTERPRETIVE DATA (OIL)

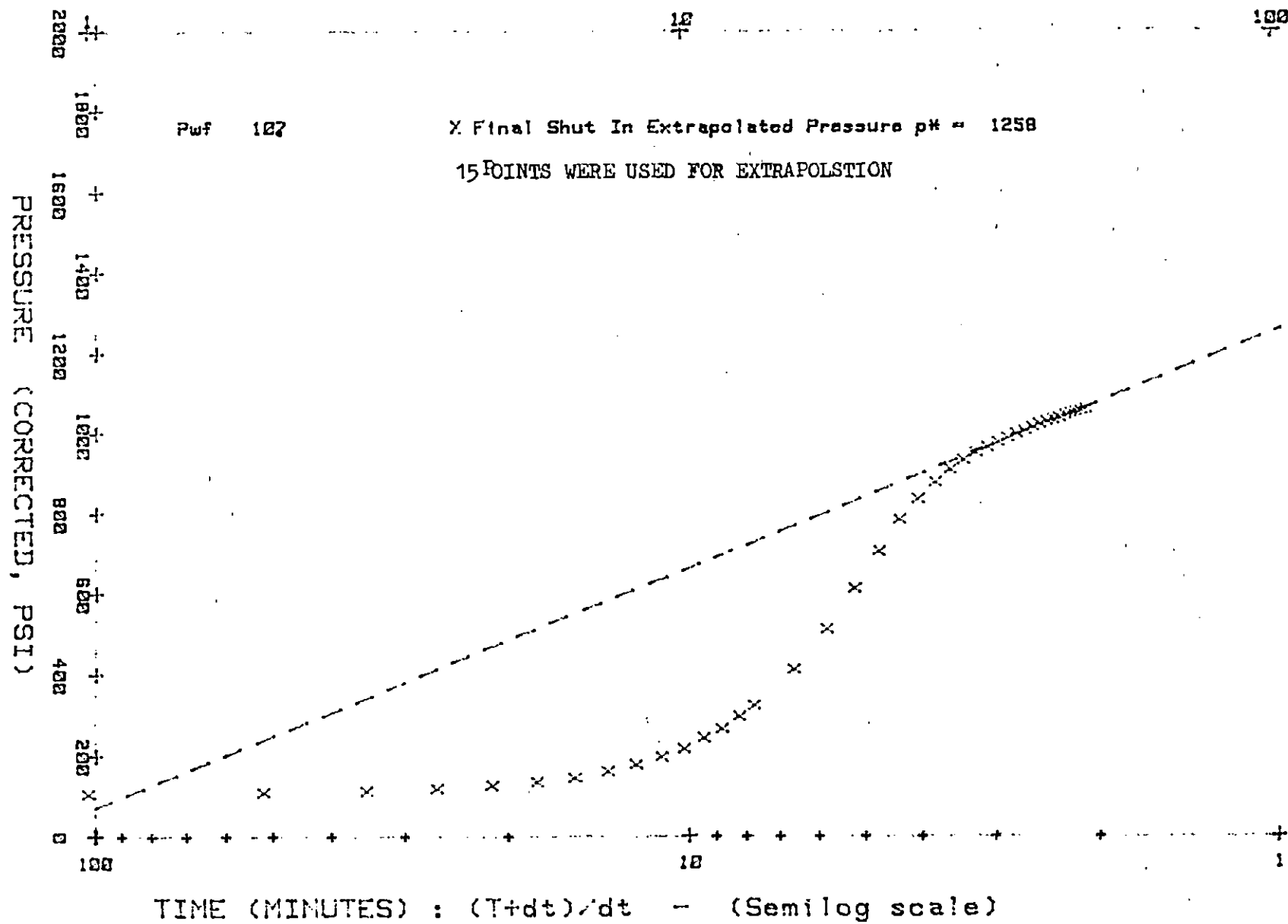
RELATED RESERVOIR PRESSURE (psi): .....	1353.00
Slope of Build-up Curve (psi/log cycle): .....	967.46
Effective Producing Time (min): .....	42.00

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

LOCATION : C-SE-NE 15-21S-34W

DATE : 9-16-1993

GAUGE # : 13561





UPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

ORIGINAL

COMPANY : MUSTANG OIL AND GAS CORP.  
 NAME : SCHMITZ #1-15  
 LOCATION : C-SE-NE 15-21S-34W  
 & COUNTY : KANSAS.FINNEY  
 DATE OF TEST : 9-16-1993  
 INT. KB : 4706 to 4720  
 INTERVAL (ft) K.B. : 14.00  
 (GR) : (KB) : 2969

TEST SERIAL NO. : 13561  
 TEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG -----
Test depth :	4714.0	ft-kb	
42 END FLOW	0.00	0.00	107.14
	1.00	103.00	107.14
	2.00	52.00	110.29
	3.00	35.00	113.45
	4.00	26.50	119.75
	5.00	21.40	127.10
	6.00	18.00	135.50
	7.00	15.57	146.01
	8.00	13.75	161.76
	9.00	12.33	178.57
	10.00	11.20	197.48
	11.00	10.27	218.49
	12.00	9.50	244.75
	13.00	8.85	266.81
	14.00	8.29	297.27
	15.00	7.80	323.53
	18.00	6.67	411.76
	21.00	5.86	511.55
	24.00	5.25	612.39
	27.00	4.78	704.83
	30.00	4.40	783.61
	33.00	4.09	835.08
	36.00	3.83	876.05
	39.00	3.62	908.61
	42.00	3.43	931.72
	45.00	3.27	949.58
	48.00	3.13	963.24
	51.00	3.00	975.84
	54.00	2.89	986.34
	57.00	2.79	996.85

UPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

WELL : MUSTANG OIL AND GAS CORP. WELL NAME : SCHMITZ #1-15  
 DATE OF TEST : 9-16-1993 LOCATION : C-SE-NE 15-21S-34W  
 TEST DEPTH : 4714.0 SERIAL NO. : 13561

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG
	60.00	2.70	1005.25
	63.00	2.62	1013.66
	66.00	2.55	1021.01
	69.00	2.48	1027.31
	72.00	2.42	1032.56
	75.00	2.36	1037.82
	78.00	2.31	1043.07
	81.00	2.26	1048.32
	84.00	2.21	1051.47
	87.00	2.17	1054.62
	90.00	2.13	1058.82
2 2ND SHUT-IN	0.00	0.00	1058.82

PERIOR TESTERS ENTERPRISES INC.

DATA SUMMARY

ORIGINAL

WELL : MUSTANG OIL AND GAS CORP. WELL NAME : SCHMITZ #1-15  
 TEST : 9-16-1993 LOCATION : C-SE-NE 15-21S-34W  
 D : 3 SHUT-IN PERIOD : 2

INTERPRETIVE DATA (OIL)

PERMEABILITY	
Initial Permeability (md): .....	3.00
Final Permeability (md): .....	0.00
EFFECTIVE PERMEABILITY	
Initial (md): .....	.31
Final (md): .....	0.00
Relative Permeability (md/cp): .....	.39
Formation Compressibility (psi <sup>-1</sup> ): .....	7.86E-06
Estimated Damage Ratio: .....	.42
Calculated Damage Ratio: .....	.55
Reservoir Temperature (F): .....	110.00
Formation Porosity: .....	.13
Formation Thickness (ft): .....	8.00
Wellbore Radius (in): .....	3.94
Reservoir Compressibility (psi <sup>-1</sup> ): .....	4.80E-07
Calculated Skin Factor: .....	-1.85
Production with Damage Removed (bbl/D): .....	10.94
Productivity Index (bbl/psi): .....	.01
Well Flow Pressure (psi): .....	107.00
Approximate Radius of Investigation (ft): .....	26.00
Well Flowing Time (min): .....	102.00
Extrapolated Reservoir Pressure (psi): .....	1258.00
Slope of Build-up Curve (psi/log cycle): .....	592.72
Effective Producing Time (min): .....	102.00

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

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

ORIGINAL

**ALLIED CEMENTING CO., INC.**

5160

Home Office P. O. Box 31

Russell, Kansas 67665

*New*

Date	9-8-93	Sec.	15	Twp.	21	Range	34	Called Out		On Location	8:30 PM	Job Start		Finish	10:30 PM
Lease	Schmitz	Well No.	1-15	Location	Friend	8W-2 1/2 S-W 1/4		County	Finney	State	Kan				
Contractor	MurFin Dels Co #20														
Type Job	Surface														
Hole Size	12 1/4	T.D.	301'												
Csg.	8 5/8	Depth	301'												
Tbg. Size		Depth													
Drill Pipe		Depth													
Tool		Depth													
Cement Left in Csg.	15'	Shoe Joint													
Press Max.		Minimum													
Meas Line		Displace	✓												
Perf.															

**EQUIPMENT**

OKlay	No.	Cementer	Walt Terry
Pumptrk	300	Helper	
Pumptrk	No.	Cementer	Fitz
		Helper	
Bulktrk		Driver	
Bulktrk		Driver	

**DEPTH of Job**

Reference:	Pumptruck	430 <sup>00</sup>
	8 5/8 Wooden Plus	42 <sup>00</sup>
	2 <sup>25</sup> per mile	157 <sup>50</sup>
	Sub Total	
	Tax	
	Total	629 <sup>50</sup>

**Remarks:**

Cement Piel Circ ✓

Owner Same  
 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.

Send to P.O. Box 1609 Great Bend Kan 67530

Charge To Mustang Oil & Gas

Street 100 S. Main, Suite 300

City Wichita State Kan 67202

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

Purchase Order No.  
 \*Rodney Farn  
**CEMENT**

Amount Ordered 200 SKS 69/40 per, 3%CC-2%Gel

Consisting of

Common	120 SKS	2	6 <sup>83</sup>	822 <sup>00</sup>
Poz. Mix	80 SKS	2	3 <sup>00</sup>	240 <sup>00</sup>
Gel.	4 SKS	2	7 <sup>00</sup>	N/C
Chloride	6 SKS	2	21 <sup>00</sup>	150 <sup>00</sup>
Quickset				

RECEIVED  
 STATE CORPORATION COMMISSION  
 Sales Tax

Handling 1<sup>00</sup> per JAN 0 1 1994 200<sup>00</sup>

Mileage 4¢ per sk/mile 70 mile 560<sup>00</sup>

CONSERVATION DIVISION  
 Wichita, Kansas

Sub Total 1,972<sup>00</sup>

Total

Floating Equipment

*Handwritten signature*

ORIGINAL

PAT



HALLIBURTON ENERGY SERVICES

P.O. BOX 951046  
DALLAS, TX 75395-1046

INVOICE

ORIGINAL

INVOICE NUMBER DATE

507933 09/18/1992

WELL LEASE NO./PROJECT		WELL NAME / PROJECT LOCATION		STATE	OWNER
SCHMITZ 1-15		FINNEY		KS	SAME
SERVICE LOCATION	CONTRACT NO.	PURPOSE		TICKET DATE	
LIBERAL	MURFIN	CEMENT PRODUCTION CASING		09/18/1992	
ACCT NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER PHONE NO.	SHIPPED VIA	FILE NO.
418495	AI HAMMERSMITH			COMPANY TRUCK	5710

DIRECT CORRESPONDENCE TO:

MUSTANG OIL & GAS CORPORATION  
P O BOX 1609  
GREAT BEND, KS 67530

OKLAHOMA TOWER  
210 WEST PARK AVENUE  
SUITE 2000  
OKLAHOMA CITY, OK 73102-5601

REFERENCE NO.	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL
PRICING AREA - MID CONTINENT				
000-117	MILEAGE	72 MI	2.75	396.00
		2 UNT		
001-016	CEMENTING CASING	4852 FT	1,635.00	1,635.00
		1 UNT		
030-016	CEMENTING PLUG SW ALUM TOP	4 1/2 IN	45.00	45.00
		1 EA		
12A	GUIDE SHOE - 4 1/2" BRD THD.	1 EA	95.00	95.00
825.201				
24A	INSERT FLOAT VALVE - 4 1/2" BRD	1 EA	73.00	73.00
815.19101				
27	FILL-UP UNIT 4 1/2"-5"	1 EA	45.00	45.00
815.19111				
40	CENTRALIZER 4-1/2 X 7 7/8 8.44	9 EA	43.00	387.00
807.93004				
350	HALLIBURTON WELD-A	1 LB	14.50	14.50
880-10802				
018-317	SUPER FLUSH	10 SK	100.00	1,000.00
218-738	CLAYFIX II	7 GAL	24.00	168.00
001-016	CEMENTING CASING - ADD HRS	4 HR	235.00	940.00
		1 UNT		
504-043	CEMENT - PREMIUM	170 SK	8.95	1,521.50
507-775	MALAD-322	120 LB	6.90	828.00
507-970	D-AIR 1, POWDER	43 LB	3.25	139.75
508-127	CAL SEAL 60	11 SK	20.70	227.70
508-291	GILSONITE BULK	850 LB	.40	340.00
509-968	SALT	11 LB	.13	158.73
509-968	SALT	200 LB	.13	26.00
500-207	BULK SERVICE CHARGE	222 CFT	1.35	299.70
500-306	MILEAGE CMTG MAT DEL OR RETURN	702.79 TMI	.95	667.65
INVOICE SUBTOTAL				9,007.53

RECEIVED  
STATE CORPORATION COMMISSION  
JAN 04 1994  
CONSERVATION DIVISION  
Wichita, Kansas

\*\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*\*

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If customer has an approved open account, all sums due are payable on the twentieth day after date of invoice. Customer agrees to pay interest