

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

API NO. 15- 175-21299-0000 **CONFIDENTIAL**  
County Seward  
C - NW - NE - Sec. 1 Twp. 32S Rge. 31W

**ORIGINAL**

Operator: License # 5652

4845 Feet from (S) (circle one) Line of Section

Name: Mustang Oil & Gas Corporation

2205 Feet from (E) (circle one) Line of Section

Address 100 S. Main, Suite 300

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

City/State/Zip Wichita, KS 67202

Lease Name Saunders Well # 1-1

Purchaser: \_\_\_\_\_

Field Name Plains

Operator Contact Person: Wayne L. Brinegar

Producing Formation Morrow

Phone (316) 267-8011

Elevation: Ground 2779' KB \_\_\_\_\_

Contractor: Name: Murfin Drilling Company

Total Depth 6055' PBD 6020'

License: 30606 **KCC**

Amount of Surface Pipe Set and Cemented at 1710' @ 1721' Feet

Wellsite Geologist: Bob Douglas **OCT 19**

Multiple Stage Cementing Collar Used? \_\_\_\_\_ Yes X No

Designate Type of Completion  
X New Well \_\_\_\_\_ Re-Entry \_\_\_\_\_ Workover \_\_\_\_\_

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

X Oil \_\_\_\_\_ SWD \_\_\_\_\_ SLOW \_\_\_\_\_ Temp. Abd.  
X Gas \_\_\_\_\_ ENHR \_\_\_\_\_ SIGW  
\_\_\_\_\_ Dry \_\_\_\_\_ Other (Core, WSW, Expl., Cathodic, etc)

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

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

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

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

Operator: \_\_\_\_\_

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

Well Name: \_\_\_\_\_

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

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

\_\_\_\_\_ Deepening \_\_\_\_\_ Re-perf. \_\_\_\_\_ Conv. to Inj/SWD  
\_\_\_\_\_ Plug Back \_\_\_\_\_ PBD  
\_\_\_\_\_ Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_  
\_\_\_\_\_ Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_  
\_\_\_\_\_ Other (SWD or Inj?) \_\_\_\_\_ Docket No. \_\_\_\_\_

Operator Name \_\_\_\_\_

**RELEASED**

6-23-93 7-6-93 7-25-93\*  
Spud Date Date Reached TD Completion Date

Lease Name NOV 2 1 1994 No. \_\_\_\_\_

Quarter Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Rng. \_\_\_\_\_ E/W

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

**FROM CONFIDENTIAL**

\*SI pending market and pipeline ROW

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 Wayne L. Brinegar

Title Exploitation/Production Manager Date 10-19-93

Subscribed and sworn to before me this 19th day of October, 19 93.

Notary Public Patricia A. Reilly  
PATRICIA A. REILLEY  
NOTARY PUBLIC  
STATE OF KANSAS  
August 11, 1995  
My Appl. Exp. 8-11-95

10-20-93  
K.C.C. OFFICE USE ONLY  
F \_\_\_\_\_ Letter of Confidentiality Issued  
C \_\_\_\_\_ Wireline Log Received  
C \_\_\_\_\_ Geologist Report Received  
OCT 20 1993  
Distribution  
✓ KCC  
\_\_\_\_\_ KGS  
S.W.D./R.O.P. DIVISION  
Wichita, Kansas  
NGPA  
Other  
(Specify)

Operator Name: Mustang Oil & Gas Corporation Lease Name Saunders Well # 1-1

Sec. 1 Twp. 32S Rge. 31  
 East  
 West

County Seward

ORIGINAL

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	Winfield	2764'	
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Council Grove	3009'	
List All E.Logs Run:		Wabaunsee	3534'	
AC-GR-CAL; DIFL-GR; ZDL-CN-GR-ML;		Heebner	4292'	
Minilog-GR; Caliper Plot		Lansing	4404'	
		Marmaton	4973'	
		Cherokee	5200'	
		Morrow-Sd	5498'	
		Chester	5568'	
		Ste. Genevieve	5745'	
		St. Louis	5830'	

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 1/2"	8-5/8"	24#	1721'	Prem Plus HLC	700	2%CC, 1/4#/sx floccale
Production	7-7/8"	5 1/2"	15.5#	6054'	Class C	260	7 1/2% FA-2, 2%CC, 15% salt, 5# Gilsnik, 3/4% Haled 9, 1/4#/sx

ADDITIONAL CEMENTING/SQUEEZE RECORD					
Purpose:	Depth	Type of Cement	#Sacks Used	Type and Percent Additives	
<input type="checkbox"/> Perforate	Top Bottom				
<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
3	5500-04'	400 gals 7 1/2% HCL w/I-10D, liquid citric acie, AC-2 & Clay-Master	25, LT-21,
		90' bbls 70 Quality Binary Foam	

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2-3/8"	5475'	5437'	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Inj. 7-29-93\* Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

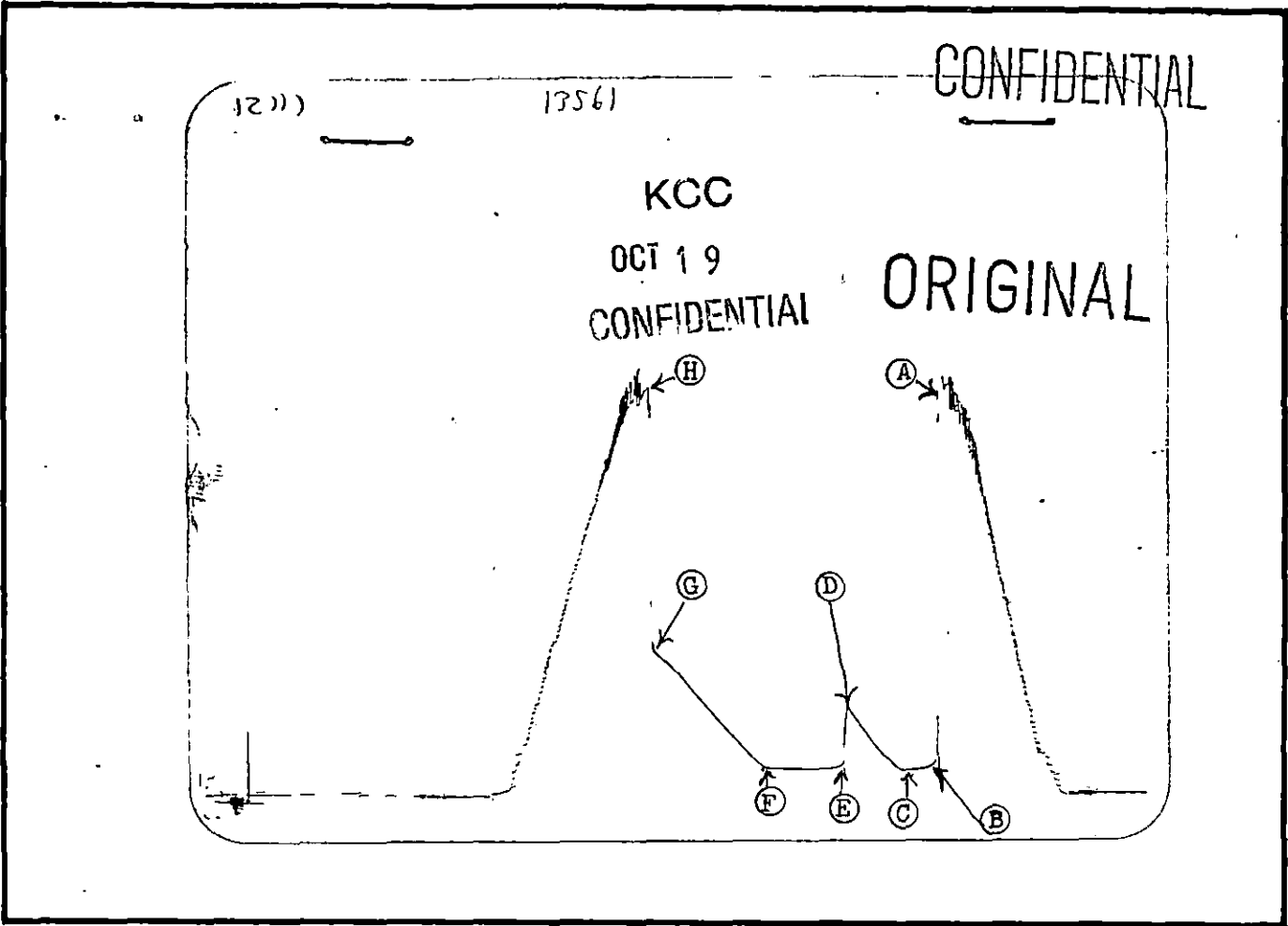
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	0	1,025	0		

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION:  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify) \_\_\_\_\_

Production Interval: Morrow

\*SI pending market and pipeline ROW



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud .....	<u>2356</u>	<u>2355</u>	P.S.I.
(B) First Initial Flow Pressure .....	<u>147</u>	<u>171</u>	P.S.I.
(C) First Final Flow Pressure .....	<u>157</u>	<u>142</u>	P.S.I.
(D) Initial Closed-in Pressure .....	<u>493</u>	<u>506</u>	P.S.I.
(E) Second Initial Flow Pressure .....	<u>168</u>	<u>178</u>	P.S.I.
(F) Second Final Flow Pressure .....	<u>168</u>	<u>157</u>	P.S.I.
(G) Final Closed-in Pressure .....	<u>840</u>	<u>837</u>	P.S.I.
(H) Final Hydrostatic Mud .....	<u>2335</u>	<u>2332</u>	P.S.I.

RELEASED

NOV 21 1994

FROM CONFIDENTIAL

RECEIVED  
STATE CORPORATION COMMISSION  
OCT 20 1993  
CONSERVATION DIVISION  
Wichita, Kansas

# Superior Testers Enterprises, Inc.

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

(316) 792-6902

CONFIDENTIAL

Date 6 30 93 Location 1-32<sup>S</sup>-31<sup>W</sup> Elevation 27<sup>58</sup> HIG County SEWARD

Company MUSTANG Oil & Gas Corp. Number of Copies 5

Charts Mailed to MURFIN Drilling Rte #22 OCT 19

Drilling Contractor \_\_\_\_\_ **CONFIDENTIAL**

Length Drill Pipe 4480 ORIGINAL Drill Pipe 380 Tool Joint Size 4 1/2 x 11

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

Length Drill Collars 564 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2 x 4

Top Packer Depth 5017 Bottom Packer Depth 5022 Number of Packers TWO Packer Size 6 3/4

TESTED FROM 5022 TO 5044 ANCHOR LENGTH 22 TOTAL DEPTH 5044 Hole Size 7 3/8

LEASE & WELL NO. SAUNDERS 1-1 FORMATION TESTED MARMATON TEST NO. 1

Mud Weight 9.0 Viscosity 54 Water Loss 8.8 Chlorides - Pits 2500 D.S.T. \_\_\_\_\_

Maximum Temp. 112 °F Initial Hydrostatic Pressure (A) 2356 P.S.I. Final Hydrostatic Pressure (H) 2335 P.S.I.

Tool Open I.F.P. from 300 m to 330 m 30 min

from [B] 147 P.S.I. to [C] 157 P.S.I.

Tool Closed I.C.I.P. from 330 m to 415 m 45 min

[D] 495 P.S.I.

Tool Open F.F.P. from 415 m to 515 m 60 min

from [E] 168 P.S.I. to [F] 168 P.S.I.

Tool Closed F.C.I.P. from 515 m to 645 m 90 min

[G] 840 P.S.I.

Initial Blow WEAK Building slowly 8" into WATER

Final Blow WEAK Building to Bottom of Bucket 12"

Total Feet Recovered 250' SLIGHTLY OIL CUT GAS MUD Gravity of Oil \_\_\_\_\_ Corrected \_\_\_\_\_

20 Feet of SLIGHTLY OIL SPOTED MUD 5 % Gas 1 % Oil 95 % Mud \_\_\_\_\_ % Water

120 Feet of SLIGHTLY OIL & GAS CUT MUD 20 % Gas 5 % Oil 95 % Mud \_\_\_\_\_ % Water

60 Feet of OIL & GAS CUT MUD 34% B.S. 18 % Gas 8 % Oil 40 % Mud \_\_\_\_\_ % Water

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

\_\_\_\_\_ Feet of 180' GAS IN PIPE \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water

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

RELEASED

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

NOV 21 1994

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

FROM CONFIDENTIAL

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

Remarks \_\_\_\_\_

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

Top Recorder No. 13561 Clock No. 12577 Depth 5038 Cir. Sub \_\_\_\_\_ Sampler NONE

Bottom Recorder No. 3825 Clock No. 23876 Depth 5041 Insurance N/A

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

Tool Operator PAT STEVENSON

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

No. 12111

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.

CONFIDENTIAL

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

ORIGINAL KCC

OCT 19

COMPANY : MUSTANG OIL AND GAS CORP. WELL NAME : SAUNDERS #1-1  
ADDRESS : P.O. BOX 1609, GREAT BEND LOCATION : 1-32S-31W  
STATE & COUNTY : KANSAS, SEWAARD FIELD :  
ELEV. (GR) : 2780 (KB) : 2791 TEST DATE : 6-20-1993

CONFIDENTIAL

EQUIPMENT AND HOLE DATA

FORMATION TESTED : MARMATON DRILL PIPE LENGTH(ft) : 4480  
TEST INT. KB : 5022 to 5044 DRILL PIPE O.D. (in) : 3.82  
ANCHOR LENGTH(ft) : 22 WEIGHT PIPE LENGTH(ft) :  
TYPE OF TEST : Conventional WEIGHT PIPE ID : 2.75  
TOTAL DEPTH(ft-kb) : 5044 DRILL COLLAR LENGTH(ft) : 465  
MAIN HOLE SIZE(in) : 7 7/8 DRILL COLLAR I.D. (in) : 2.259  
MUD WEIGHT : 9.0 TOP PACKER DEPTH(kb) : 5017  
MUD VISCOSITY : 54 BOTTOM PACKER DEPTH(kb) : 5022  
MUD CHLORIDES : 2500 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) : 112 TEST TICKET NUMBER : 12111

EXTRA EQUIPMENT :

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

SURFACE BLOW

1st Opening : WEAK BLOW BUILT TO 8 INCHES INTO THE WATER  
2nd Opening : WEAK BLOW BUILT TO BOTTOM OF BUCKET IN 12 MINUTES

RECOVERY

Recovered 180 feet of GAS IN THE PIPE  
Recovered 70 feet of SLIGHTLY OIL SPOTTED MUD  
Recovered 120 feet of SLIGHTLY OIL AND GAS CUT MUD  
Recovered 60 feet of OIL AND GAS CUT MUD

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REMARKS :

WITNESSED BY : BOB DOUGLASS TOOL OPERATOR : PAT STEVENSON

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

RELEASED

ORIGINAL CONFIDENTIAL

NOV 21 1994

SUPERIOR TESTERS ENTERPRISES INC.  
FROM CONFIDENTIAL

SUBSURFACE PRESSURE MEASUREMENTS

KCC

OCT 19

COMPANY : MUSTANG OIL AND GAS CORP. WELL NAME : SAUNDERS #1-1  
DATE OF TEST : 6-20-1993 LOCATION : 1-32S-31W  
DEPTH : 5038.0 SERIAL NO. : 13561

CONFIDENTIAL

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	----- CORRECTED
TEST NO.:1					
Depth : 5038.0 ft-kb					
-1ST HYDROSTATIC	0.0	2.248	2356.77	-.98	2355.79
-3:00 1ST FLOW	0.0	.163	171.32	-.10	171.22
- 3:05	5.0	.151	158.74	-.12	158.61
- 3:10	10.0	.140	147.21	-.15	147.06
- 3:15	15.0	.136	143.01	-.16	142.86
- 3:20	20.0	.135	141.97	-.16	141.81
- 3:25	25.0	.136	143.01	-.16	142.86
- 3:30	30.0	.136	143.01	-.16	142.86
-3:30 END FLOW	0.0	.136	143.01	-.16	142.86
- 3:33	3.0	.142	149.30	-.14	149.16
- 3:36	6.0	.151	158.74	-.12	158.61
- 3:39	9.0	.171	179.70	-.08	179.62
- 3:42	12.0	.194	203.81	-.03	203.78
- 3:45	15.0	.211	221.63	.01	221.64
- 3:48	18.0	.237	248.88	.07	248.95
- 3:51	21.0	.263	276.13	.13	276.26
- 3:54	24.0	.287	301.29	.18	301.47
- 3:57	27.0	.318	333.78	.25	334.03
- 4:00	30.0	.348	365.23	.32	365.55
- 4:03	33.0	.376	394.58	.38	394.96
- 4:06	36.0	.407	427.07	.45	427.52
- 4:09	39.0	.437	458.52	.52	459.03
- 4:12	42.0	.465	487.87	.58	488.45
- 4:14	44.0	.482	505.68	.62	506.30
-4:14 1ST SHUT-IN	0.0	.482	505.68	.62	506.30
-4:14 2ND FLOW	0.0	.170	178.65	-.08	178.57
- 4:19	5.0	.153	160.83	-.12	160.71
- 4:24	10.0	.148	155.59	-.13	155.46
- 4:29	15.0	.146	153.50	-.14	153.36
- 4:34	20.0	.146	153.50	-.14	153.36
- 4:39	25.0	.146	153.50	-.14	153.36
- 4:44	30.0	.147	154.54	-.13	154.41
- 4:49	35.0	.147	154.54	-.13	154.41
- 4:54	40.0	.147	154.54	-.13	154.41
- 4:59	45.0	.149	156.64	-.13	156.51
- 5:04	50.0	.149	156.64	-.13	156.51
- 5:09	55.0	.150	157.69	-.13	157.56
- 5:14	60.0	.150	157.69	-.13	157.56
-5:14 END FLOW	0.0	.150	157.69	-.13	157.56
- 5:17	3.0	.162	170.27	-.10	170.17

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

KCC

COMPANY : MUSTANG OIL AND GAS CORP. WELL NAME : SAUNDERS #1-1  
 DATE OF TEST : 6-20-1993 LOCATION : 1-32S-31W  
 DEPTH : 5038.0 SERIAL NO. : 13561

OCT 19  
 CONFIDENTIAL

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO.:1					
- 5:20	6.0	.176	184.94	-.07	184.87
- 5:23	9.0	.194	203.81	-.03	203.78
- 5:26	12.0	.217	227.92	.02	227.94
- 5:29	15.0	.237	248.88	.07	248.95
- 5:32	18.0	.262	275.09	.12	275.21
- 5:35	21.0	.286	300.24	.18	300.42
- 5:38	24.0	.310	325.40	.23	325.63
- 5:41	27.0	.334	350.55	.29	350.84
- 5:44	30.0	.362	379.90	.35	380.25
- 5:47	33.0	.383	401.91	.40	402.31
- 5:50	36.0	.406	426.02	.45	426.47
- 5:53	39.0	.430	451.18	.50	451.68
- 5:56	42.0	.453	475.29	.55	475.84
- 5:59	45.0	.477	500.44	.61	501.05
- 6:02	48.0	.503	527.70	.67	528.36
- 6:05	51.0	.527	552.85	.72	553.57
- 6:08	54.0	.553	580.10	.78	580.88
- 6:11	57.0	.575	603.16	.83	603.99
- 6:14	60.0	.600	629.37	.88	630.25
- 6:17	63.0	.628	658.72	.95	659.66
- 6:20	66.0	.658	690.16	1.01	691.18
- 6:23	69.0	.682	715.32	1.07	716.39
- 6:26	72.0	.705	739.43	1.12	740.55
- 6:29	75.0	.728	763.54	1.17	764.71
- 6:32	78.0	.745	781.35	1.21	782.56
- 6:35	81.0	.762	799.17	1.25	800.42
- 6:38	84.0	.782	820.14	1.29	821.43
- 6:40	86.0	.797	835.86	1.32	837.18
-6:40 2ND SHUT-IN	0.0	.797	835.86	1.32	837.18
-2ND HYDROSTATIC	0.0	2.226	2333.71	-1.07	2332.63

RELEASED

NOV 21 1994

FROM CONFIDENTIAL

PRESSURE ( P S I G )

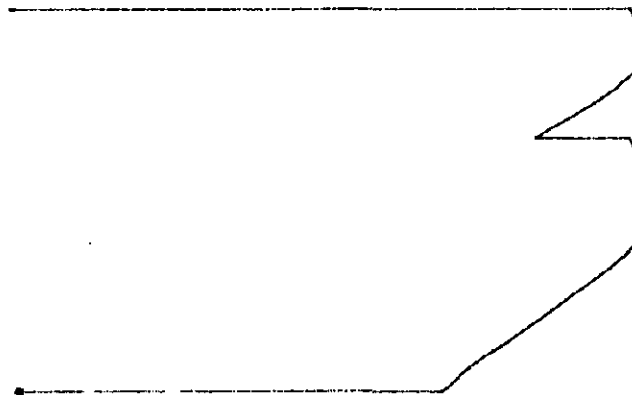
4000 3600 3200 2400 2000 1600 800 0

3600 2800 2000 1200 400

-180  
-90  
0  
90  
180  
270  
360  
450  
540  
630  
720

TIME (MINUTES)

KCC  
OCT 19  
CONFIDENTIAL



RELEASED

NOV 21 1994

FROM CONFIDENTIAL

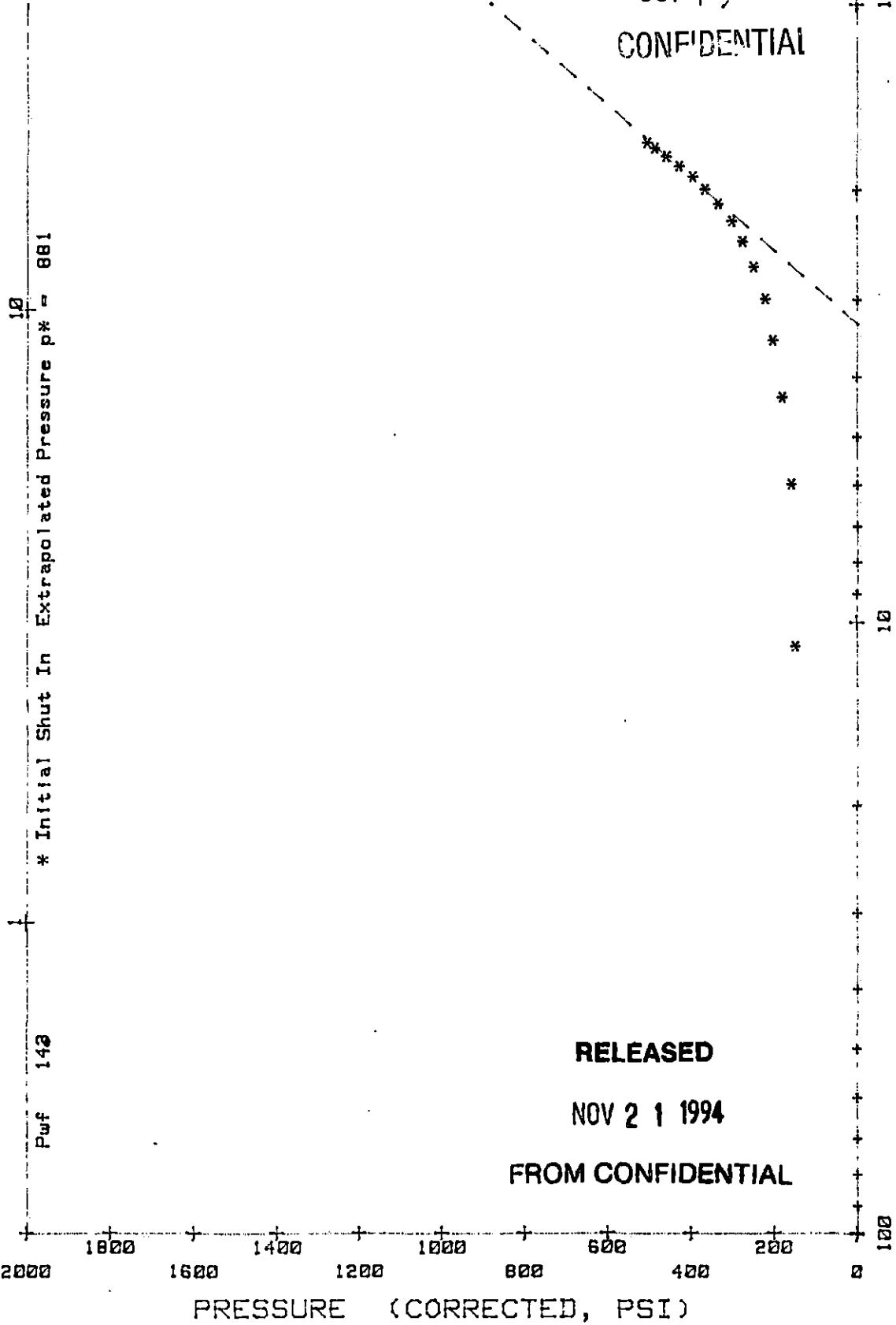
COMPANY : MUSTANG OIL AND GAS CORP.  
 WELL : SAUNDERS #1-1  
 LOCATION : 1-32S-31W  
 DATE : 6-20-1993  
 GAUGE # : 13561



GAUGE # : 13561

DATE : 6-20-1993

LOCATION : 1-32S-31W



RELEASED

NOV 21 1994

FROM CONFIDENTIAL

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

SUPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

ORIGINAL

CONFIDENTIAL

COMPANY : MUSTANG OIL AND GAS CORP.  
 WELL NAME : SAUNDERS #1-1  
 LOCATION : 1-32S-31W  
 STATE & COUNTY : KANSAS, SEWAARD  
 DATE OF TEST : 6-20-1993  
 TEST INT. KB : 5022 to 5044  
 TOTAL INTERVAL (ft) K.B. : 22.00  
 ELEV.(GR) : 2780 (KB) : 2791  
 FIELD :

KCC

OCT 19

CONFIDENTIAL

ELEMENT SERIAL NO. : 13561  
 LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG -----
Refer. depth :	5038.0 ft-kb		
-3:30 END FLOW	0.00	0.00	142.86
	3.00	11.00	149.16
	6.00	6.00	158.61
	9.00	4.33	179.62
	12.00	3.50	203.78
	15.00	3.00	221.64
	18.00	2.67	248.95
	21.00	2.43	276.26
	24.00	2.25	301.47
	27.00	2.11	334.03
	30.00	2.00	365.55
	33.00	1.91	394.96
	36.00	1.83	427.52
	39.00	1.77	459.03
	42.00	1.71	488.45
	44.00	1.68	506.30
-4:14 1ST SHUT-IN	0.00	0.00	506.30

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES. INC.

RELEASED

NOV 21 1994

FROM CONFIDENTIAL

CONFIDENTIAL

SUPERIOR TESTERS ENTERPRISES INC.

KCC

DATA SUMMARY

OCT 19

ORIGINAL

CONFIDENTIAL

COMPANY : MUSTANG OIL AND GAS CORP. WELL NAME : SAUNDERS #1-1  
DATE OF TEST : 6-20-1993 LOCATION : 1-32S-31W  
DST. NO : 1 SHUT-IN PERIOD : 1

INTERPRETIVE DATA (OIL)

EXTRAPOLATED RESERVOIR PRESSURE (psi): .....	881.00
Slope of Build-up Curve (psi/log cycle): .....	1707.34
Effective Producing Time (min): .....	30.00

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

RELEASED

NOV 21 1994

FROM CONFIDENTIAL

CONFIDENTIAL

ORIGINAL

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GAUGE # : 13561

DATE : 6-20-1993

LOCATION : 1-32S-31W

100

10

X Final Shut In Extrapolated Pressure p\* = 1533

Pwf 150

2000 1800 1600 1400 1200 1000 800 600 400 200 0

PRESSURE (CORRECTED, PSI)

10

100

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

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SUPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

ORIGINAL

COMPANY : MUSTANG OIL AND GAS CORP.  
WELL NAME : SAUNDERS #1-1  
LOCATION : 1-32S-31W  
STATE & COUNTY : KANSAS, SEWAARD  
DATE OF TEST : 6-20-1993  
TEST INT. KB : 5022 to 5044  
TOTAL INTERVAL (ft) K.B. : 22.00  
ELEV. (GR) : 2780 (KB) : 2791  
FIELD :

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ELEMENT SERIAL NO. : 13561  
LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG -----
Refer. depth :	5038.0 ft-kb		
-5:14 END FLOW	0.00	0.00	157.56
	3.00	31.00	170.17
	6.00	16.00	184.87
	9.00	11.00	203.78
	12.00	8.50	227.94
	15.00	7.00	248.95
	18.00	6.00	275.21
	21.00	5.29	300.42
	24.00	4.75	325.63
	27.00	4.33	350.84
	30.00	4.00	380.25
	33.00	3.73	402.31
	36.00	3.50	426.47
	39.00	3.31	451.68
	42.00	3.14	475.84
	45.00	3.00	501.05
	48.00	2.88	528.36
	51.00	2.76	553.57
	54.00	2.67	580.88
	57.00	2.58	603.99
	60.00	2.50	630.25
	63.00	2.43	659.66
	66.00	2.36	691.18
	69.00	2.30	716.39
	72.00	2.25	740.55
	75.00	2.20	764.71
	78.00	2.15	782.56
	81.00	2.11	800.42
	84.00	2.07	821.43
	86.00	2.05	837.18

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RECEIVED  
STATE CORPORATION COMMISSION

OCT 20 1993  
CONSERVATION DIVISION  
Wichita, Kansas

SUPERIOR TESTERS ENTERPRISES INC.

DATA SUMMARY

CONFIDENTIAL

ORIGINAL

COMPANY : MUSTANG OIL AND GAS CORP. WELL NAME : SAUNDERS #1-1  
DATE OF TEST : 6-20-1993 LOCATION : 1-32S-31W  
DST. NO : 1 SHUT-IN PERIOD : 2

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INTERPRETIVE DATA (OIL)

CONFIDENTIAL

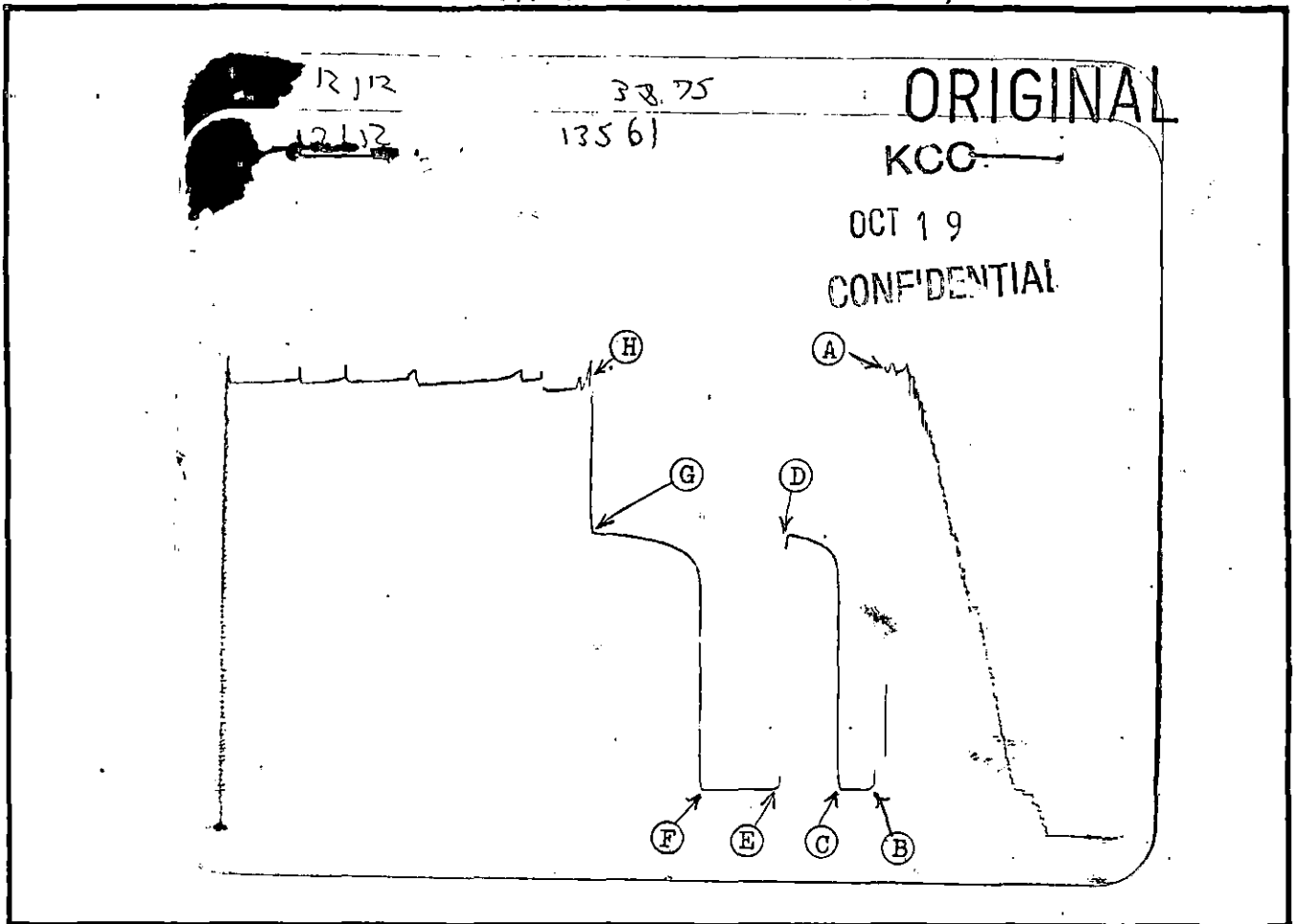
EXTRAPOLATED RESERVOIR PRESSURE (psi): .....	1533.00
Slope of Build-up Curve (psi/log cycle): .....	2254.78
Effective Producing Time (min): .....	90.00

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

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This is an actual photograph of recorder chart.

POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud .....	<u>2576</u>	<u>2644</u>	P.S.I.
(B) First Initial Flow Pressure .....	<u>262</u>	<u>260</u>	P.S.I.
(C) First Final Flow Pressure .....	<u>262</u>	<u>260</u>	P.S.I.
(D) Initial Closed-in Pressure .....	<u>1717</u>	<u>1717</u>	P.S.I.
(E) Second Initial Flow Pressure .....	<u>262</u>	<u>256</u>	P.S.I.
(F) Second Final Flow Pressure .....	<u>262</u>	<u>255</u>	P.S.I.
(G) Final Closed-in Pressure .....	<u>1717</u>	<u>1719</u>	P.S.I.
(H) Final Hydrostatic Mud .....	<u>2555</u>	<u>2544</u>	P.S.I.

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CONFIDENTIAL - INFORMATION CONTAINED HEREIN IS UNCLASSIFIED DATE 12/21/93 BY SP-10/BJL/STP

# Superior Testers Enterprises, Inc

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

(316) 792-6902

**CONFIDENTIAL**

Date 7 2 93 Location 1- 32<sup>s</sup> - 31<sup>w</sup> Elevation 2791<sup>KB</sup> County SEWARD

Company MUSTANG OIL & GAS CORP KCC Number of Copies 5

Charts Mailed to MORFIN Drilling Rig #22

Drilling Contractor OCT 19

Length Drill Pipe 4948 I.D. Drill Pipe 380 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 564 I.D. Drill Collars 2.25 Tool Joint Size 1 1/2 x 1 1/2

Top Packer Depth 5470 Bottom Packer Depth 5475 Number of Packers Two Packer Size 6 1/4

TESTED FROM 5475 TO 5512 ANCHOR LENGTH 37 TOTAL DEPTH 5512 Hole Size 7 7/8

LEASE & WELL NO. SAUNDERS FORMATION TESTED Marrow TEST NO. 2

Mud Weight 9.5 Viscosity 51 Water Loss 10.4 Chlorides - Pits 2000 D.S.T. \_\_\_\_\_

Maximum Temp. 116 °F Initial Hydrostatic Pressure (A) 2576 P.S.I. Final Hydrostatic Pressure (H) 2555 P.S.I.

Tool Open I.F.P. from 645 m to 715 m 30 min

Tool Closed I.C.I.P. from 715 m to 800 m 45 min

Tool Open F.F.P. from 800 m to 900 m 60 min

Tool Closed F.C.I.P. from 900 m to 1030 m 90 min

Initial Blow Strong Blow off Bottom Gas to surface 3 1/2

Final Blow Strong Blow off Bottom

Total Feet Recovered 330 Drilling MVP 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

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

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

Remarks \_\_\_\_\_

Extra Equipment Jars YES Safety Joint YES Extra Packer None Straddle None Hook Wall None

Top Recorder No. 13561 Clock No. 12577 Depth 5506 Cir. Sub \_\_\_\_\_ Sampler None

Bottom Recorder No. 3875 Clock No. 23876 Depth 5509 Insurance N/A

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

Tool Operator PAT STEVENSON

Approved By NO 12112

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from [B] 262 P.S.I. to [C] 262 P.S.I.  
[D] 1717 P.S.I.  
from [E] 262 P.S.I. to [F] 262 P.S.I.  
[G] 1717 P.S.I.

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



# Superior Testers Enterprises, Inc.

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

(316) 792-6902

ORIGINAL

GAS FLOW REPORT

CONFIDENTIAL

Date 7 2 93 Ticket # 12112 Company MUSTANG OIL & GAS  
 Well Name and No. SAUNDERS 171 DST No. 2 Interval Tested 547E 551Z  
 County SEWARD State KS Sec. 1 Twp. 32<sup>S</sup> Rg. 21<sup>W</sup>

Time Gauge Pre-Flow	Time Gauge in Min.	Inches of Water on Orifice Well Tester	Inches of Mercury on Orifice Well Tester	P.S.I. on Orifice Well Tester	P.S.I. on Pitot Tester	Choke Size	Gas Rate MCF
<b>PRE FLOW</b>							
655	10			20		1 <sup>1/2</sup>	699 mcf
705	20		KCC	22		1 <sup>1/2</sup>	773 mcf
715	30		OCT 9	23		1 <sup>1/2</sup>	796 mcf
			CONFIDENTIAL				

<b>SECOND FLOW</b>							
810	10			22		1 <sup>1/2</sup>	773 mcf
820	20			24		1 <sup>1/2</sup>	817 mcf
830	30			26		1 <sup>1/2</sup>	865 mcf
840	40			26		1 <sup>1/2</sup>	865 mcf
850	50			26		1 <sup>1/2</sup>	865 mcf
860	60			25		1 <sup>1/2</sup>	840 mcf
							<b>RELEASED</b>
							NOV 21 1994
							<b>FROM CONFIDENTIAL</b>

**GAS BOTTLE**

Serial No. \_\_\_\_\_ Date Bottle Filled \_\_\_\_\_ Date to be Invoiced \_\_\_\_\_ Test Ticket # \_\_\_\_\_

Requisition and Provisions for high pressure steel gas bottles. Superior Testers Enterprises, Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Superior Testers Enterprises, Inc. within thirty (30) days free of charge or be invoiced in the amount of \$125.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1½% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME \_\_\_\_\_

Authorized by \_\_\_\_\_

CONFIDENTIAL

SUPERIOR TESTERS ENTERPRISES INC.

ORIGINAL

WELL IDENTIFICATION DATA

COMPANY : MUSTANG OIL AND GAS CORP. WELL NAME : SAUNDERS #1-1  
ADDRESS : P.O.BOX 1609,GREAT BEND LOCATION : 1-328-31W  
STATE & COUNTY : KANSAS,SEWARD FIELD :  
ELEV.(GR) : 2782 (KB) : 2791 TEST DATE : 7-2-1993

KCC

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EQUIPMENT AND HOLE DATA

FORMATION TESTED : MORROW DRILL PIPE LENGTH(ft) : 4948  
TEST INT. KB : 5475 to 5512 DRILL PIPE O.D.(in) : 3.82  
ANCHOR LENGTH(ft) : 37 WEIGHT PIPE LENGTH(ft) :  
TYPE OF TEST : Conventional WEIGHT PIPE ID : 2.75  
TOTAL DEPTH(ft-*kb*) : 5512 DRILL COLLAR LENGTH(ft) : 564  
MAIN HOLE SIZE(in) : 7 7/8 DRILL COLLAR I.D.(in) : 2.259  
MUD WEIGHT : 9.5 TOP PACKER DEPTH(*kb*) : 5470  
MUD VISCOSITY : 51 BOTTOM PACKER DEPTH(*kb*) : 5475  
MUD CHLORIDES : 2000 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 : 12112

EXTRA EQUIPMENT : -JARS -SAFETY JOINT

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

SURFACE BLOW

1st Opening : STRONG BLOW-GAS TO SURFACE IN 3 MINUTES  
2nd Opening : STRONG BLOW

RECOVERY

Recovered 0 feet of SEE GAS REPORT  
Recovered 330 feet of DRILLING MUD

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REMARKS :

WITNESSED BY : BOB DOUGLASS TOOL OPERATOR : PAT STEVENSON

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

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SUPERIOR TESTERS ENTERPRISES INC. - KCC

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SUBSURFACE PRESSURE MEASUREMENTS

OCT 19

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COMPANY : MUSTANG OIL AND GAS CORP. WELL NAME : SAUNDERS #1-1  
DATE OF TEST : 7-2-1993 LOCATION : 1-328-31W  
DEPTH : 5506.0 SERIAL NO. : 13561

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO.: 2					
Depth : 5506.0 ft-kb					
-1ST HYDROSTATIC	0.0	2.522	2643.97	.24	2644.21
-6:45 1ST FLOW	0.0	.248	260.41	.09	260.50
- 6:50	5.0	.247	259.36	.09	259.45
- 6:55	10.0	.248	260.41	.09	260.50
- 7:00	15.0	.247	259.36	.09	259.45
- 7:05	20.0	.248	260.41	.09	260.50
- 7:10	25.0	.247	259.36	.09	259.45
- 7:15	30.0	.248	260.41	.09	260.50
-7:15 END FLOW	0.0	.248	260.41	.09	260.50
- 7:18	3.0	.387	406.11	.41	406.51
- 7:21	6.0	1.506	1579.02	-.73	1578.29
- 7:24	9.0	1.534	1608.37	-.85	1607.52
- 7:27	12.0	1.559	1634.57	-.96	1633.61
- 7:30	15.0	1.574	1650.29	-1.02	1649.27
- 7:33	18.0	1.585	1661.82	-1.07	1660.75
- 7:36	21.0	1.593	1670.21	-1.11	1669.10
- 7:39	24.0	1.601	1678.59	-1.14	1677.45
- 7:42	27.0	1.609	1686.98	-1.18	1685.80
- 7:45	30.0	1.614	1692.22	-1.20	1691.02
- 7:48	33.0	1.619	1697.46	-1.22	1696.24
- 7:51	36.0	1.624	1702.70	-1.24	1701.46
- 7:54	39.0	1.628	1706.90	-1.26	1705.64
- 7:57	42.0	1.631	1710.04	-1.27	1708.77
- 8:00	45.0	1.633	1712.14	-1.28	1710.86
-8:00 1ST SHUT-IN	0.0	1.633	1712.14	-1.28	1710.86
-8:00 2ND FLOW	0.0	.244	256.22	.08	256.30
- 8:05	5.0	.244	256.22	.08	256.30
- 8:10	10.0	.244	256.22	.08	256.30
- 8:15	15.0	.244	256.22	.08	256.30
- 8:20	20.0	.244	256.22	.08	256.30
- 8:25	25.0	.244	256.22	.08	256.30
- 8:30	30.0	.244	256.22	.08	256.30
- 8:35	35.0	.244	256.22	.08	256.30
- 8:40	40.0	.244	256.22	.08	256.30
- 8:45	45.0	.244	256.22	.08	256.30
- 8:50	50.0	.243	255.17	.08	255.25
- 8:55	55.0	.243	255.17	.08	255.25
- 9:00	60.0	.243	255.17	.08	255.25
-9:00 END FLOW	0.0	.243	255.17	.08	255.25
- 9:03	3.0	1.350	1415.50	-.05	1415.45

ORIGINAL CONFIDENTIAL

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

KCC

COMPANY : MUSTANG OIL AND GAS CORP. WELL NAME : SAUNDERS #1-1  
DATE OF TEST : 7-2-1993 LOCATION : 1-32S-31W  
DEPTH : 5506.0 SERIAL NO. : 13561

OCT 19

CONFIDENTIAL

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO.:2					
- 9:06	6.0	1.468	1539.19	-.56	1538.62
- 9:09	9.0	1.496	1568.54	-.69	1567.85
- 9:12	12.0	1.519	1592.64	-.79	1591.86
- 9:15	15.0	1.535	1609.41	-.86	1608.56
- 9:18	18.0	1.547	1621.99	-.91	1621.09
- 9:21	21.0	1.557	1632.47	-.95	1631.52
- 9:24	24.0	1.569	1645.05	-1.00	1644.05
- 9:27	27.0	1.576	1652.39	-1.03	1651.36
- 9:30	30.0	1.581	1657.63	-1.05	1656.58
- 9:33	33.0	1.586	1662.87	-1.08	1661.80
- 9:36	36.0	1.591	1668.11	-1.10	1667.01
- 9:39	39.0	1.595	1672.31	-1.12	1671.19
- 9:42	42.0	1.599	1676.50	-1.13	1675.37
- 9:45	45.0	1.602	1679.64	-1.15	1678.50
- 9:48	48.0	1.606	1683.84	-1.16	1682.67
- 9:51	51.0	1.609	1686.98	-1.18	1685.80
- 9:54	54.0	1.613	1691.17	-1.19	1689.98
- 9:57	57.0	1.617	1695.37	-1.21	1694.15
- 10:00	60.0	1.619	1697.46	-1.22	1696.24
- 10:03	63.0	1.623	1701.65	-1.24	1700.42
- 10:06	66.0	1.625	1703.75	-1.25	1702.51
- 10:09	69.0	1.627	1705.85	-1.25	1704.59
- 10:12	72.0	1.628	1706.90	-1.26	1705.64
- 10:15	75.0	1.631	1710.04	-1.27	1708.77
- 10:18	78.0	1.633	1712.14	-1.28	1710.86
- 10:21	81.0	1.635	1714.23	-1.29	1712.94
- 10:24	84.0	1.639	1718.43	-1.31	1717.12
- 10:27	87.0	1.641	1720.52	-1.31	1719.21
-10:27 2ND SHUT-IN	0.0	1.641	1720.52	-1.31	1719.21
-2ND HYDROSTATIC	0.0	2.427	2544.39	-.18	2544.21

RELEASED

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FROM CONFIDENTIAL

SUPERIOR TESTERS ENTERPRISES INC.

DATA SUMMARY

ORIGINAL CONFIDENTIAL

COMPANY : MUSTANG OIL AND GAS CORP. WELL NAME : SAUNDERS #1-1  
DATE OF TEST : 7-2-1993 LOCATION : 1-325-31W

KCC

OCT 19

RECOVERY INFORMATION

CONFIDENTIAL

LIQUID RECOVERY

Total Fluid Recovered :

Recovered 0 feet of SEE GAS REPORT  
Recovered 330 feet of DRILLING MUD

GAS RECOVERY

Measured With : ORFICE TESTER  
(P.S.I. )

Riser : 2 INCH

Time (min.)	Reading	Surface Choke (in.)	Cubic feet/day
6:55	20.00	1.00	699000
7:05	22.00	1.00	773000
7:15	23.00	1.00	796000
8:10	22.00	1.00	773000
8:20	24.00	1.00	817000
8:30	26.00	1.00	865000
8:40	26.00	1.00	865000
8:50	26.00	1.00	865000
9:00	25.00	1.00	840000

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FLUID PROPERTIES

	Viscosity (cp)	Compressibility (psi-1)	Porosity Saturation
Oil			
Gas	.2	9.2E-6	100
Water		0	

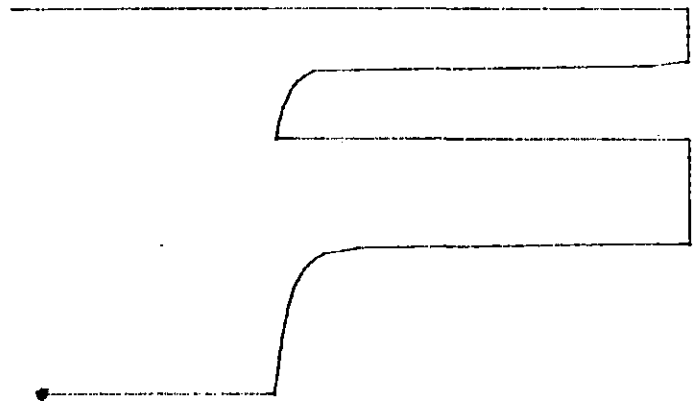
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PRESSURE ( P S I G )

4000 3600 3200 2800 2400 2000 1600 1200 800 400 0

ORIGINAL KCC  
OCT 19 -  
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TIME (MINUTES)



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FROM CONFIDENTIAL

COMPANY : MUSTANG OIL AND GAS CORP.  
 WELL : SAUNDERS #1-1  
 LOCATION : 1-32S-31W  
 DATE : 7-2-1993  
 GAUGE # : 13561

720

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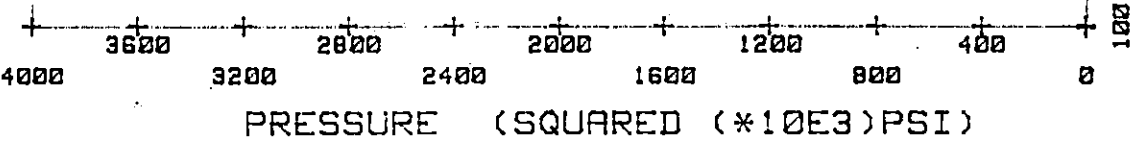
GAUGE # : 13561

DATE : 7-2-1993

LOCATION : 1-32S-31W

\* Initial Shut In Extrapolated Pressure  $p_{*}^2 = 9.125742E+6$

Pwf 261



RELEASED

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FROM CONFIDENTIAL

CONFIDENTIAL

SUPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

ORIGINAL

KCC

OCT 19 1993

CONFIDENTIAL

COMPANY : MUSTANG OIL AND GAS CORP.  
 WELL NAME : SAUNDERS #1-1  
 LOCATION : 1-32S-31W  
 STATE & COUNTY : KANSAS, SEWARD  
 DATE OF TEST : 7-2-1993  
 TEST INT. KB : 5475 to 5512  
 TOTAL INTERVAL (ft) K.B. : 37.00  
 ELEV. (GR) : 2782 (KB) : 2791  
 FIELD :

ELEMENT SERIAL NO. : 13561  
 LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG	-----
Refer. depth :	5506.0 ft-kb			
-7:15 END FLOW	0.00	0.00	260.50	
	3.00	11.00	406.51	
	6.00	6.00	1581.93	
	9.00	4.33	1611.34	
	12.00	3.50	1637.61	
	15.00	3.00	1653.36	
	18.00	2.67	1664.92	
	21.00	2.43	1673.32	
	24.00	2.25	1681.72	
	27.00	2.11	1690.13	
	30.00	2.00	1695.38	
	33.00	1.91	1700.63	
	36.00	1.83	1705.88	
	39.00	1.77	1710.08	
	42.00	1.71	1713.24	
	45.00	1.67	1715.34	
-8:00 1ST SHUT-IN	0.00	0.00	1715.34	

RELEASED

NOV 21 1994

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

FROM CONFIDENTIAL



SUPERIOR TESTERS ENTERPRISES INC.

DATA SUMMARY

ORIGINAL CONFIDENTIAL

COMPANY : MUSTANG OIL AND GAS CORP. WELL NAME : SAUNDERS #1-1  
DATE OF TEST : 7-2-1993 LOCATION : 1-32S-31W  
DST. NO : 2 SHUT-IN PERIOD : 1

KCC

OCT 19

INTERPRETIVE DATA (GAS)

CONFIDENTIAL

EXTRAPOLATED RESERVOIR PRESSURE (psi): ..... 1767.98  
Slope of Build-up Curve (psi/log cycle): ..... 828174.46  
Effective Producing Time (min): ..... 30.00

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

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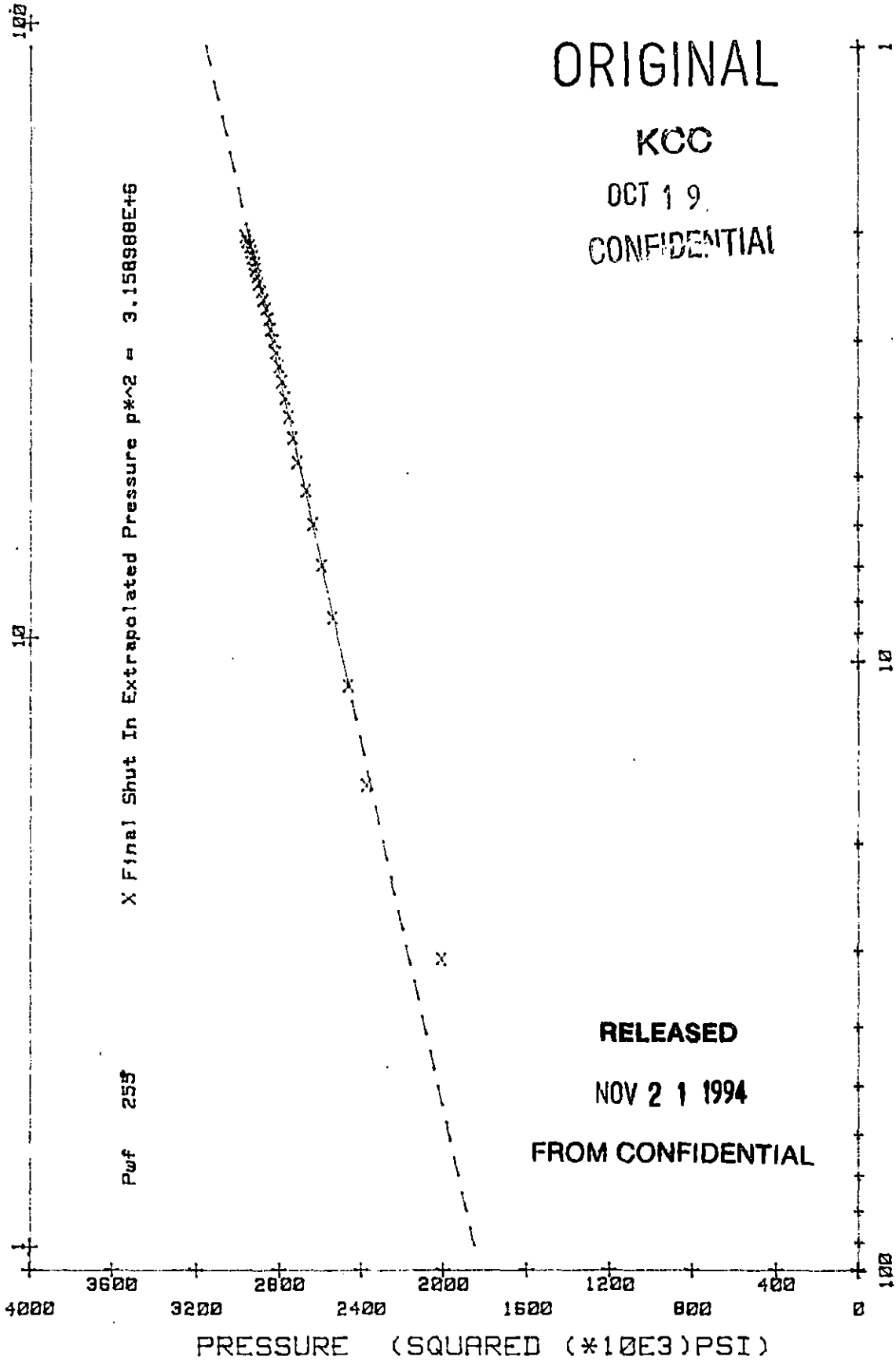
FROM CONFIDENTIAL

CONFIDENTIAL

GAUGE # : 13561

DATE : 7-2-1993

LOCATION : 1-325-31W



SUPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

COMPANY : MUSTANG OIL AND GAS CORP.  
 WELL NAME : SAUNDERS #1-1  
 LOCATION : 1-32S-31W  
 STATE & COUNTY : KANSAS, SEWARD  
 DATE OF TEST : 7-2-1993  
 TEST INT. KB : 5475 to 5512  
 TOTAL INTERVAL (ft) K.B. : 37.00  
 ELEV. (GR) : 2782 (KB) : 2791  
 FIELD :

ORIGINAL

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ELEMENT SERIAL NO. : 13561  
 LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG	-----
Refer. depth :	5506.0 ft-kb			
-9:00 END FLOW	0.00	0.00	255.25	
	3.00	31.00	1418.07	
	6.00	16.00	1542.02	
	9.00	11.00	1571.43	
	12.00	8.50	1595.59	
	15.00	7.00	1612.39	
	18.00	6.00	1625.00	
	21.00	5.29	1635.50	
	24.00	4.75	1648.11	
	27.00	4.33	1655.46	
	30.00	4.00	1660.71	
	33.00	3.73	1665.97	
	36.00	3.50	1671.22	
	39.00	3.31	1675.42	
	42.00	3.14	1679.62	
	45.00	3.00	1682.77	
	48.00	2.88	1686.97	
	51.00	2.76	1690.13	
	54.00	2.67	1694.33	
	57.00	2.58	1698.53	
	60.00	2.50	1700.63	
	63.00	2.43	1704.83	
	66.00	2.36	1706.93	
	69.00	2.30	1709.03	
	72.00	2.25	1710.08	
	75.00	2.20	1713.24	
	78.00	2.15	1715.34	
	81.00	2.11	1717.44	
	84.00	2.07	1721.64	
	87.00	2.03	1723.74	

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SUPERIOR TESTERS ENTERPRISES INC.

DATA SUMMARY

ORIGINAL CONFIDENTIAL

COMPANY : MUSTANG OIL AND GAS CORP. WELL NAME : SAUNDERS #1-1  
 DATE OF TEST : 7-2-1993 LOCATION : 1-32S-31W  
 DST. NO : 2 SHUT-IN PERIOD : 2

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INTERPRETIVE DATA (GAS)

TRANSMISSIBILITY

Oil (md.ft/cp): ..... 0.00  
 Gas (md.ft/cp): ..... 1196.88

EFFECTIVE PERMEABILITY

Oil (md): ..... 0.00  
 Gas (md): ..... 20.35

TOTAL MOBILITY (md/cp): ..... 101.73

TOTAL COMPRESSIBILITY (psi<sup>-1</sup>): ..... 9.20E-04

ESTIMATED DAMAGE RATIO: ..... 1.01

CALCULATED DAMAGE RATIO: ..... 1.26

Reservoir Temperature (F): ..... 119.00

Formation Porosity : ..... .18

Formation Thickness (ft): ..... 10.00

Wellbore Radius (in): ..... 3.94

Reservoir Compressibility (psi<sup>-1</sup>): ..... 4.80E-07

Calculated Skin Factor : ..... 1.10

PRODUCTION WITH DAMAGE REMOVED (MCF/D): ..... 1056.13

PRODUCTIVITY INDEX (MCF/psi): ..... .55

Final Flow Pressure (psi): ..... 255.00

APPROXIMATE RADIUS OF INVESTIGATION (ft): ..... 30.97

Total Flowing Time (min): ..... 90.00

EXTRAPOLATED RESERVOIR PRESSURE (psi): ..... 1777.35

Slope of Build-up Curve (psi/log cycle): ..... 664826.58

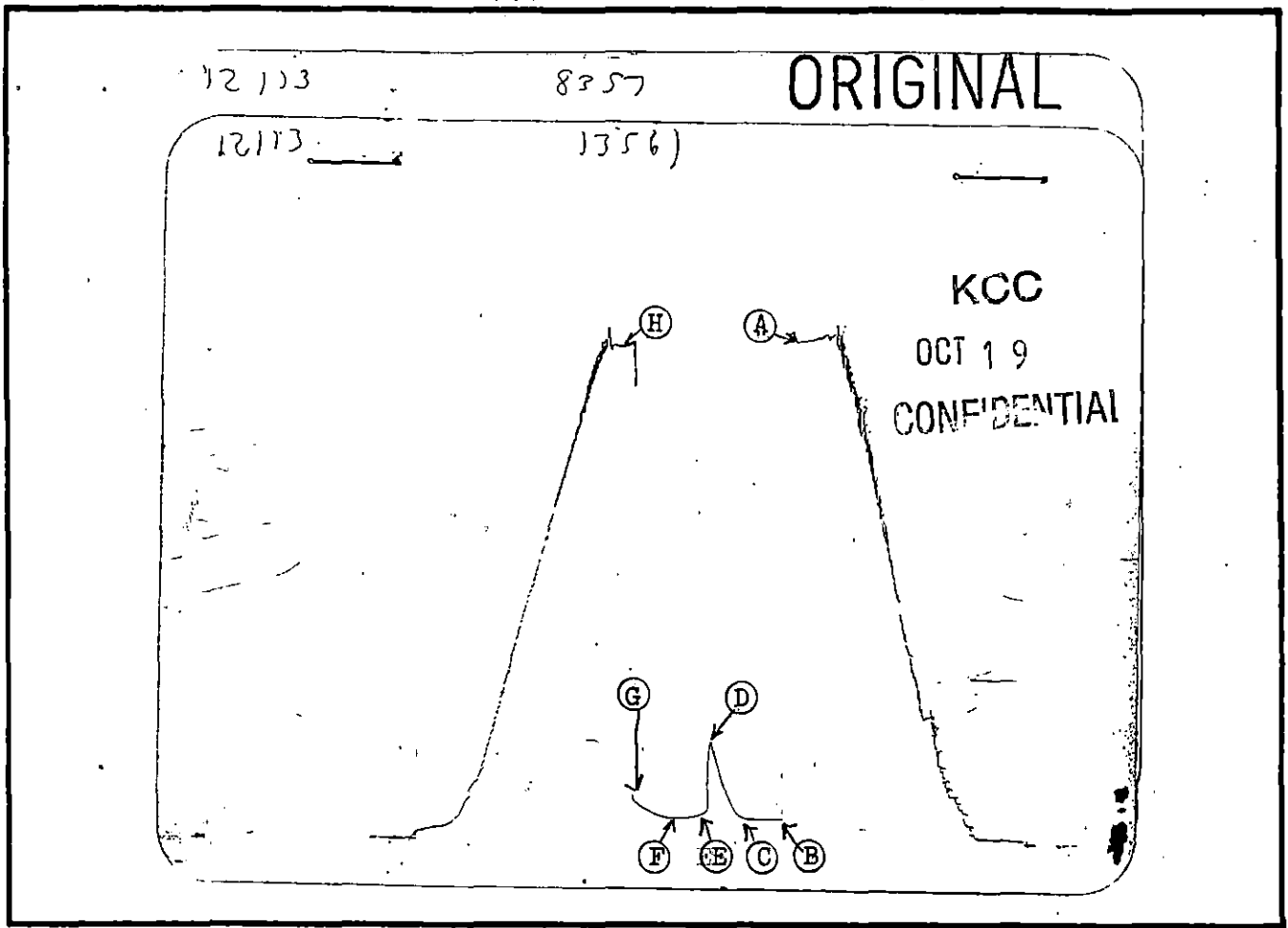
Effective Producing Time (min): ..... 90.00

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API #15-175-21299



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud .....	2850	2863	P.S.I.
(B) First Initial Flow Pressure .....	136	118	P.S.I.
(C) First Final Flow Pressure .....	136	119	P.S.I.
(D) Initial Closed-in Pressure .....	567	568	P.S.I.
(E) Second Initial Flow Pressure .....	136	143	P.S.I.
(F) Second Final Flow Pressure .....	136	127	P.S.I.
(G) Final Closed-in Pressure .....	294	233	P.S.I.
(H) Final Hydrostatic Mud .....	2829	2821	P.S.I.

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COMPANY Mustang Oil & Gas Corp. LEASE - WELL NO Saunders #1-1 SEC 1 IWP 32 REC. 31 IESI NO. 2 DATE 11-2-1994

# Superior Testers Enterprises, Inc. CONFIDENTIAL

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

Date 7 5 93 Location 1-32-31" Elevation 2791<sup>RB</sup> County SEWARD  
Company MUSTANG OIL & GAS CORP. Number of Copies 5

Charts Mailed to \_\_\_\_\_  
Drilling Contractor MURFIN DRILLING R16 22 OCT 19  
Length Drill Pipe 5320 I.D. Drill Pipe 380 Tool Joint Size 4 1/2 XH  
Length Weight Pipe NONE I.D. Weight Pipe NONE Tool Joint Size NONE  
Length Drill Collars 502 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2 XH  
Top Packer Depth 5878 Bottom Packer Depth 5823 Number of Packers Two Packer Size 6 3/4  
TESTED FROM 5823 TO 5910 ANCHOR LENGTH 87 TOTAL DEPTH 5910 Hole Size 7 7/8  
LEASE & WELL NO. SAUNDERS 1-1 FORMATION TESTED ST. LOUIS TEST NO. 3  
Mud Weight 9.0 Viscosity 64 Water Loss 10.4 Chlorides - Pits 2000 D.S.T. \_\_\_\_\_  
Maximum Temp. 116 °F Initial Hydrostatic Pressure (A) 2850 P.S.I. Final Hydrostatic Pressure (H) 2829 P.S.I.

Tool Open I.F.P. from 4145 m to 515 m 30 min  
Tool Closed I.C.I.P. from 515 m to 545 m 30 min  
Tool Open F.F.P. from 545 m to 615 m 30 min  
Tool Closed F.C.I.P. from 615 m to 645 m 30 min

from [B] 136 P.S.I. to [C] 136 P.S.I.  
[D] 567 P.S.I.  
from [E] 136 P.S.I. to [F] 136 P.S.I.  
[G] 294 P.S.I.

Initial Blow WEAK BLOW 1 1/2 INTO WATER Decreasing Died 21"  
Final Blow NO BLOW  
Total Feet Recovered 90' Drilling MWD Gravity of Oil \_\_\_\_\_ Corrected \_\_\_\_\_

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

ORIGINAL

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Remarks \_\_\_\_\_

Extra Equipment - Jars yes Safety Joint yes Extra Packer NO Straddle NO Hook Wall NO  
Top Recorder No. 13561 Clock No. 12577 Depth 5904 Cir. Sub \_\_\_\_\_ Sampler NO  
Bottom Recorder No. 3875 Clock No. 22876 Depth 5907 Insurance N/A

Price of Job \_\_\_\_\_  
Tool Operator PAT STEVENSON  
Approved By \_\_\_\_\_  
NR 12113

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

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

CONFIDENTIAL

COMPANY : MUSTANG OIL AND GAS CORP. WELL NAME : SAUNDERS #1-1  
ADDRESS : P.O. BOX 1609, GREAT BEND LOCATION : 1-32S-31W  
STATE & COUNTY : KANSAS, SEWAARD FIELD :  
ELEV. (GR) : 2780 (KB) : 2791 TEST DATE : 7-5-1993

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EQUIPMENT AND HOLE DATA

ORIGINAL

CONFIDENTIAL

FORMATION TESTED : ST LOUIS DRILL PIPE LENGTH(ft) : 5320  
TEST INT. KB : 5823 to 5910 DRILL PIPE O.D.(in) : 3.82  
ANCHOR LENGTH(ft) : 87 WEIGHT PIPE LENGTH(ft) :  
TYPE OF TEST : Conventional WEIGHT PIPE ID : 2.75  
TOTAL DEPTH(ft-kg) : 5910 DRILL COLLAR LENGTH(ft) : 502  
MAIN HOLE SIZE(in) : 7 7/8 DRILL COLLAR I.D.(in) : 2.259  
MUD WEIGHT : 9.0 TOP PACKER DEPTH(kb) : 5818  
MUD VISCOSITY : 64 BOTTOM PACKER DEPTH(kb) : 5823  
MUD CHLORIDES : 2000 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 : 12113

EXTRA EQUIPMENT : -JARS -SAFETY JOINT

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

SURFACE BLOW

1st Opening : WEAK BLOW FOR 21 MINUTES AND DIED  
2nd Opening : NO BLOW

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RECOVERY

NOV 21 1994

Recovered 90 feet of DRILLING MUD

FROM CONFIDENTIAL

REMARKS :

WITNESSED BY : BOB DOUGLASS TOOL OPERATOR : PAT STEVENSON

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

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SUPERIOR TESTERS ENTERPRISES INC.

NOV 2 1 1994

SUBSURFACE PRESSURE MEASUREMENTS  
FROM CONFIDENTIAL

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COMPANY : MUSTANG OIL AND GAS CORP. WELL NAME : SAUNDERS #1-1  
DATE OF TEST : 7-5-1993 LOCATION : 1-325-31W  
DEPTH : 5904.0 SERIAL NO. 13591

OCT 19 1994

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COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO.:3					
Depth : 5904.0 ft-kb					
-1ST HYDROSTATIC	0.0	2.730	2861.99	1.17	2863.16
-4:45 1ST FLOW	0.0	.113	118.91	-.21	118.70
- 4:50	5.0	.113	118.91	-.21	118.70
- 4:55	10.0	.112	117.86	-.21	117.65
- 5:00	15.0	.112	117.86	-.21	117.65
- 5:05	20.0	.113	118.91	-.21	118.70
- 5:10	25.0	.113	118.91	-.21	118.70
- 5:15	30.0	.114	119.95	-.21	119.75
-5:15 END FLOW	0.0	.114	119.95	-.21	119.75
- 5:18	3.0	.124	130.44	-.18	130.25
- 5:21	6.0	.136	143.01	-.16	142.86
- 5:24	9.0	.162	170.27	-.10	170.17
- 5:27	12.0	.202	212.19	-.01	212.18
- 5:30	15.0	.250	262.51	.10	262.61
- 5:33	18.0	.306	321.20	.22	321.43
- 5:36	21.0	.375	393.53	.38	393.91
- 5:39	24.0	.445	466.90	.54	467.44
- 5:42	27.0	.526	551.80	.72	552.52
- 5:43	28.0	.541	567.53	.75	568.28
-5:43 1ST SHUT-IN	0.0	.541	567.53	.75	568.28
-5:43 2ND FLOW	0.0	.137	144.06	-.16	143.91
- 5:48	5.0	.133	139.87	-.16	139.71
- 5:53	10.0	.127	133.58	-.18	133.40
- 5:58	15.0	.124	130.44	-.18	130.25
- 6:03	20.0	.122	128.34	-.19	128.15
- 6:08	25.0	.121	127.29	-.19	127.10
- 6:13	30.0	.121	127.29	-.19	127.10
-5:13 END FLOW	0.0	.121	127.29	-.19	127.10
- 5:16	3.0	.125	131.48	-.18	131.30
- 5:19	6.0	.132	138.82	-.17	138.66
- 5:22	9.0	.138	145.11	-.15	144.96
- 5:25	12.0	.146	153.50	-.14	153.36
- 5:28	15.0	.157	165.03	-.11	164.92
- 5:31	18.0	.166	174.46	-.09	174.37
- 5:34	21.0	.180	189.13	-.06	189.08
- 5:37	24.0	.193	202.76	-.03	202.73
- 5:40	27.0	.213	223.72	.02	223.74
- 5:43	30.0	.222	233.16	.04	233.19
-5:43 2ND SHUT-IN	0.0	.222	233.16	.04	233.19
-2ND HYDROSTATIC	0.0	2.690	2820.06	.99	2821.05



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PRESSURE ( P S I G )

4000 3600 3200 2800 2400 2000 1600 1200 800 400 0

TIME (MINUTES)

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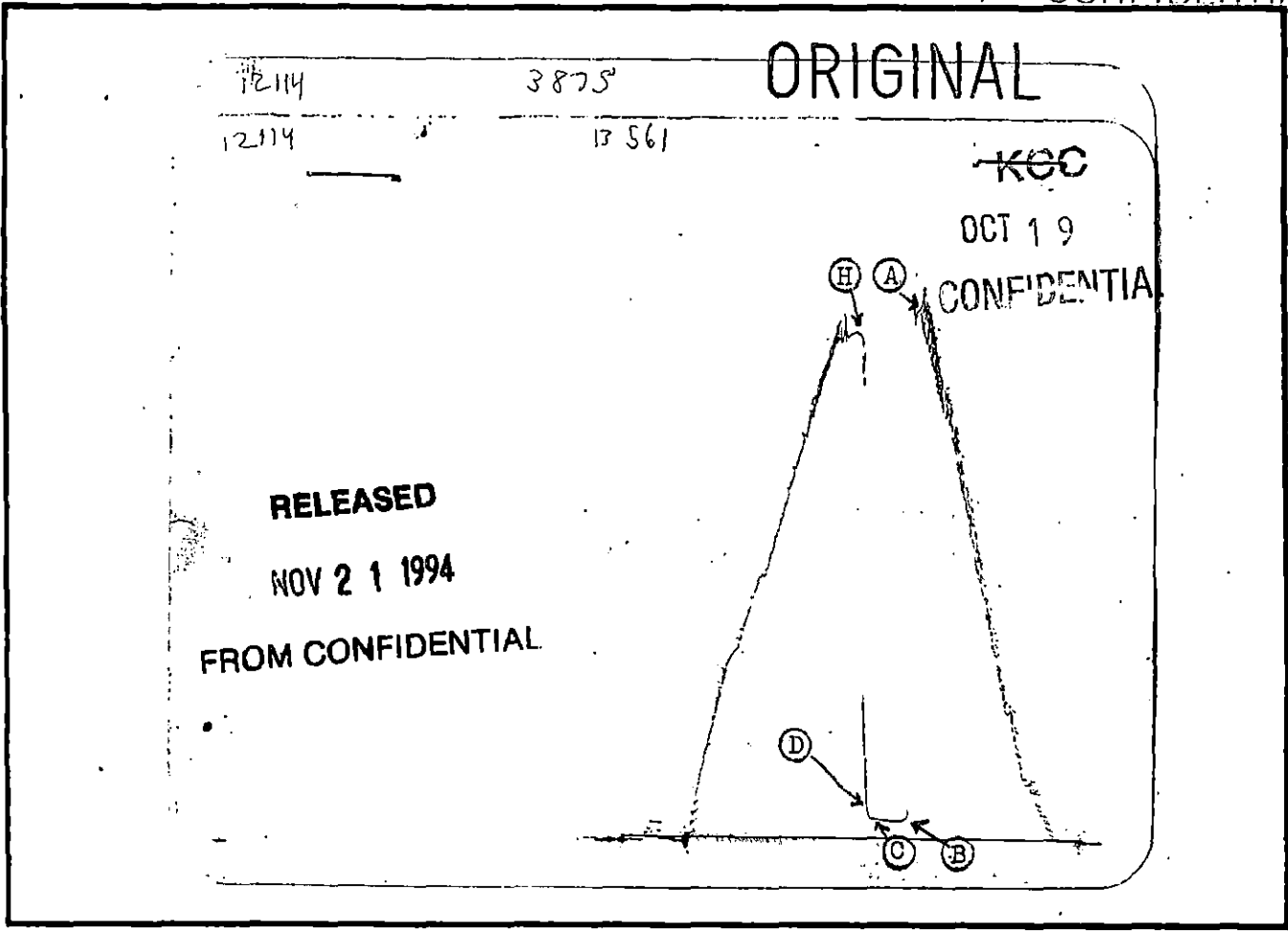
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FROM CONFIDENTIAL

COMPANY : MUSTANG OIL AND GAS CORP.  
 WELL : SAUNDERS #1-1  
 LOCATION : 1-325-31W  
 DATE : 7-5-1993  
 GAUGE # : 13561

720



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud .....	2967	3005	P.S.I.
(B) First Initial Flow Pressure .....	94	111	P.S.I.
(C) First Final Flow Pressure .....	115	117	P.S.I.
(D) Initial Closed-in Pressure .....	-	184	P.S.I.
(E) Second Initial Flow Pressure .....	-	-	P.S.I.
(F) Second Final Flow Pressure .....	-	-	P.S.I.
(G) Final Closed-in Pressure .....	-	-	P.S.I.
(H) Final Hydrostatic Mud .....	2882	2896	P.S.I.

COMPANY Mustang Oil & Gas Corporation WELL NO Dainger's #1-1 SEC 1 TWP 26S R0E 21W TEST NO. 4 DATE 7-6-1993

# Superior Testers Enterprises, Inc.

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

(316) 792-6902 2790 GR

**CONFIDENTIAL**

Date 7 6 93 Location 1 32<sup>S</sup>-31<sup>W</sup> Elevation 279<sup>RB</sup> County SEWARD

Company MUSTANG OIL & GAS Corp Number of Copies 5

Charts Mailed to \_\_\_\_\_ OCT 19

Drilling Contractor MURFIN Drilling R. 6 22 **CONFIDENTIAL**

Length Drill Pipe 5544 I.D. Drill Pipe 380 Tool Joint Size 1 1/2 X H

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

Length Drill Collars 534 I.D. Drill Collars 2.25 Tool Joint Size 1/2 X H

Top Packer Depth 5979 Bottom Packer Depth 5984 Number of Packers TWO Packer Size 6 3/4

TESTED FROM 5984 TO 6055 ANCHOR LENGTH 71 TOTAL DEPTH 6055 Hole Size 7 3/8

LEASE & WELL NO. SAUNDERS 1-1 FORMATION TESTED ST. LOUIS TEST NO. 4

Mud Weight 9.3 Viscosity 57 Water Loss 10 1/4 Chlorides - Pits 2000 D.S.T. \_\_\_\_\_

Maximum Temp. 132 °F Initial Hydrostatic Pressure (A) 2967 P.S.I. Final Hydrostatic Pressure (H) 2882 P.S.I.

Tool Open I.F.P. from 7:00 A m to 7:30 A m 30 min

from [B] 94 P.S.I. to [C] 115 P.S.I.  
[D] \_\_\_\_\_ P.S.I.  
from [E] \_\_\_\_\_ P.S.I. to [F] \_\_\_\_\_ P.S.I.  
[G] \_\_\_\_\_ P.S.I.

Tool Closed I.C.I.P. from 7:30 m to \_\_\_\_\_ m \_\_\_\_\_ min

Tool Open F.F.P. from \_\_\_\_\_ m to \_\_\_\_\_ m \_\_\_\_\_ min

Tool Closed F.C.I.P. from \_\_\_\_\_ m to \_\_\_\_\_ m \_\_\_\_\_ min

Initial Blow WEAK blow built to 1/2 inches into the water and DECREASED to a

Final Blow VERY WEAK SURFACE BLOW

Total Feet Recovered 3000 Gravity of Oil \_\_\_\_\_ Corrected \_\_\_\_\_

<u>3000</u> Feet of <u>Drilling mud</u>	<b>ORIGINAL</b>	% Gas _____	% Oil _____	% Mud _____	% Water _____	
_____ Feet of _____		% Gas _____	% Oil _____	% Mud _____	% Water _____	
_____ Feet of _____		<b>RELEASED</b>	% Gas _____	% Oil _____	% Mud _____	% Water _____
_____ Feet of _____			% Gas _____	% Oil _____	% Mud _____	% Water _____
_____ Feet of _____		<b>NOV 21 1994</b>	% Gas _____	% Oil _____	% Mud _____	% Water _____
_____ Feet of _____			% Gas _____	% Oil _____	% Mud _____	% Water _____
_____ Feet of _____		<b>FROM CONFIDENTIAL</b>	% Gas _____	% Oil _____	% Mud _____	% Water _____
_____ Feet of _____			% Gas _____	% Oil _____	% Mud _____	% Water _____
_____ Feet of _____			% Gas _____	% Oil _____	% Mud _____	% Water _____
_____ Feet of _____			% Gas _____	% Oil _____	% Mud _____	% Water _____

Remarks After initial flow when turned to shut-it in packing in packing  
Box sub washed out picking up 3000 feet of mud

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

Top Recorder No. 13561 Clock No. 12577 Depth 6949 Cir. Sub \_\_\_\_\_ Sampler none

Bottom Recorder No. 3825 Clock No. 23876 Depth 6052 Insurance NA

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

Tool Operator \_\_\_\_\_

Approved By 12114

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

SUPERIOR TESTERS ENTERPRISES INC.

CONFIDENTIAL

WELL IDENTIFICATION DATA

COMPANY : MUSTANG OIL AND GAS CORP. WELL NAME : SAUNDERS #1-1  
ADDRESS : P.O.BOX 1609,GREAT BEND LOCATION : 1-326-31W  
STATE & COUNTY : KANSAS,SEWAARD FIELD :  
ELEV.(GR) : 2780 (KB) : 2791 TEST DATE : 7-6-1993

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EQUIPMENT AND HOLE DATA

FORMATION TESTED : ST LOUIS  
TEST INT. KB : 5984 to 6055  
ANCHOR LENGTH(ft) : 71  
TYPE OF TEST : Conventional  
TOTAL DEPTH(ft-kg) : 6055  
MAIN HOLE SIZE(in) : 7 7/8  
MUD WEIGHT : 57  
MUD VISCOSITY : 9.3  
MUD CHLORIDES : 2000  
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) : 132

DRILL PIPE LENGTH(ft) : 5544  
DRILL PIPE O.D.(in) : 3.82  
WEIGHT PIPE LENGTH(ft) :  
WEIGHT PIPE ID : 2.75  
DRILL COLLAR LENGTH(ft) : 502  
DRILL COLLAR I.D.(in) : 2.259  
TOP PACKER DEPTH(kb) : 5979  
BOTTOM PACKER DEPTH(kb) : 5984  
DUAL PACKERS :  
PACKER SIZE(in) : 6 3/4  
PACKER HOLD : Yes  
TOOL PLUG : No  
REVERSED OUT : YES  
TEST TICKET NUMBER : 12114

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EXTRA EQUIPMENT : -JARS -SAFETY JOINT -CIRC.SUB

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

SURFACE BLOW

1st Opening : WEAK BLOW BUILT TO 1/2 INCH & DECEASED  
2nd Opening : NONE TAKEN

RECOVERY

Recovered 3000 feet of MUD

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REMARKS :

AFTER INITIAL FLOW WHEN TURNED THE TOOL TO SHUT THE TOOL IN PACKING IN TOP PART OF THE SHUT IN TOOL WASHED OUT CAUSING MUD TO ENTER THE DRILL STRING PICKING UP 3000 FEET OF MUD-INITIAL FLOW AND 3 MINUTES OF THE INITIAL SHUT-IN ARE VALID PRESSURES

WITNESSED BY : BOB DOUGLASS TOOL OPERATOR : GENE BUDIG

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

CONFIDENTIAL

COMPANY : MUSTANG OIL AND GAS CORP. WELL NAME : SAUNDERS #1-1  
 DATE OF TEST : 7-6-1993 LOCATION : 1-32S-31W  
 DEPTH : 6049.0 SERIAL NO. : 13561

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COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO.:4					
Depth : 6049.0 ft-kb					
-1ST HYDROSTATIC	0.0	2.865	3003.49	1.74	3005.23
-7:00 1ST FLOW	0.0	.106	111.57	-.22	111.34
- 7:05	5.0	.104	109.47	-.23	109.24
- 7:10	10.0	.098	103.18	-.24	102.94
- 7:15	15.0	.099	104.23	-.24	103.99
- 7:20	20.0	.100	105.28	-.24	105.04
- 7:25	25.0	.105	110.52	-.23	110.29
- 7:31	31.0	.112	117.86	-.21	117.65
-7:31 END FOW	0.0	.112	117.86	-.21	117.65
- 7:32	1.0	.123	129.39	-.19	129.20
- 7:33	2.0	.143	150.35	-.14	150.21
- 7:34	3.0	.176	184.94	-.07	184.87
-7:24 1ST SHUT-IN	0.0	.176	184.94	-.07	184.87
-2ND HYDROSTATIC	0.0	2.762	2895.53	1.31	2896.84

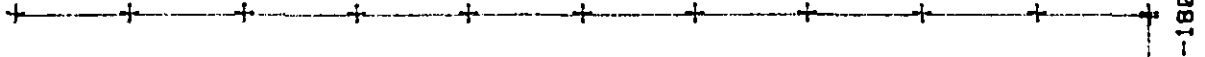
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PRESSURE ( P S I G )

4000 3600 3200 2800 2400 2000 1600 1200 800 400 0

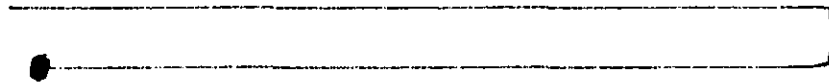


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TIME (MINUTES)

-180 -90 0 90 180 270 360 450 540 630 720

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FROM CONFIDENTIAL

COMPANY : MUSTANG OIL AND GAS CORP.  
WELL : SAUNDERS #1-1  
LOCATION : 1-32S-31W  
DATE : 7-6-1993  
GAUGE # : 13561

**DOWELL SCHLUMBERGER INCORPORATED**

P.O. BOX 4378 HOUSTON, TEXAS 77210

CUSTOMER

**CONFIDENTIAL**

**ORIGINAL**

**OILFIELD SERVICES**

DSI SERVICE ORDER RECEIPT AND INVOICE NO.  
**03-12-5339**

DSI SERVICE LOCATION NAME AND NUMBER  
**Ulysses, TX 03-12**

CUSTOMER NUMBER CUSTOMER P.O. NUMBER TYPE SERVICE CODE BUSINESS CODES  
**271**

WORKOVER NEW WELL OTHER  W  N  API OR IC NUMBER

CUSTOMER'S NAME **MUSTANG Oil + Gas**

ADDRESS CITY, STATE AND ZIP CODE

DSI will furnish and Customer shall purchase materials and services required in the performance of the following SERVICE INSTRUCTIONS in accordance with the general terms and conditions as printed on the reverse side of this service order and/or attached to this service order. This service order is subject to alternative dispute resolution.

**KCC**

**OCT 19**

**CONFIDENTIAL**

IMPORTANT! SEE OTHER SIDE FOR TERMS & CONDITIONS

ARRIVE LOCATION MO. DAY YR. TIME  
**6 25 93 0130**

SERVICE ORDER I authorize work to begin per service instructions in accordance with terms and conditions printed on the reverse side of this form and/or attached to this form and represent that I have authority to accept and sign this order.

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE  
*[Signature]*

JOB COMPLETION MO. DAY YR. TIME  
**6 25 93 0830**

SERVICE RECEIPT I certify that the materials and services listed were received and all services performed in a workmanlike manner.

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE  
*[Signature]*

STATE CODE COUNTY / PARISH CODE CITY  
**TX 15 Seaward 175**

WELL NAME AND NUMBER / JOB SITE LOCATION AND POOL / PLANT ADDRESS SHIPPED VIA  
**Saunders #1-1 Sec. 1-32s-31u Dowell**

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
059200-002	mileage	mi	20	2.65	53.00
059697-000	PATR chg	EA	1	140.00	140.00
102871-020	PUMP chg	EA	1	1100.00	1100.00
048601-000	cmf head manifold	EA	1	63.00	N.C.
049102-000	hauling	ton/mi	667	.88	586.96
049100-000	service chg	full hr	77.8	1.20	933.60
040003-000	D903 class C	SK	511	7.98	4077.78
045008-000	D35 Infopod	SK	194	3.94	764.36
045014-050	D20 gal	lb	2897	.15	434.55
067005-100	CACTZ	lb	1248	.36	449.28
044003-025	D29 cellophane Flaks	lb	177	1.59	281.43
050001-085	Tr. pattern chg	EA	1	225.00	225.00
053002-085	office fill in spat	EA	1	295.00	295.00
056011-085	centralizers	EA	3	74.00	222.00
056702-085	top plug	EA	1	98.00	98.00
057499-001	thread lock	EA	1	25.00	25.00

**RELEASED**

**NOV 21 1994**

**FROM CONFIDENTIAL**

Thanks For using Dowell

SUB TOTAL **9660.96** RECEIVED OCT 20 1993

LICENSE/REIMBURSEMENT FEE

REMARKS: STATE COUNTY CITY % TAX ON \$

SIGNATURE OF DSI REPRESENTATIVE **Jam Esquivel** TOTAL \$

CONSERVATION DIVISION, Wichita, Kansas

CEMENTING SERVICE REPORT



DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER: 3-12-5339  
 DATE: 6-25-93  
 PAGE: DS DISTRICT: Ulysses, Ks.

DS-496 PRINTED IN U.S.A.

WELL NAME AND NO.: Saunders #1-1  
 LOCATION (LEGAL): Sec 1-35 ORIGINAL  
 COUNTY/PARISH: Sevier Ks.  
 STATE: Ks.  
 API. NO.:  
 NAME: Mustang Oil & Gas  
 AND: CONFIDENTIAL

RIG NAME: MURFIN Drilling #22  
 WELL DATA: BOTTOM TOP  
 BIT SIZE: 7 1/2" CSG/Liner Size: 8 1/2"  
 TOTAL DEPTH: 1725 WEIGHT: 24  
 ROT CABLE: FOOTAGE: 1725  
 MUD TYPE: GRADE: 555  
 THST: THREAD: 820  
 MUD DENSITY: LESS FOOTAGE SHOE JOINT(S): 3.2  
 MUD VISC.: Disp. Capacity: 107.8

ADDRESS:  
 ZIP CODE:  
 SPECIAL INSTRUCTIONS: KCC

NOTE: Include Footage From Ground Level To Head In Disp. Capacity  
 Stage Tool: TYPE: Oilfield Filling Unit DEPTH: 1693  
 Stage Tool: TYPE: T. Pattern DEPTH: 1725

OCT 19  
 CONFIDENTIAL

Head & Plugs:  TBG  D.P. SQUEEZE JOB  
 Double SIZE: TOOL DEPTH  
 Single WEIGHT  
 Swage GRADE TAIL PIPE: SIZE DEPTH  
 Knockoff THREAD TUBING VOLUME Bbls  
 TOP OR OW:  NEW  USED CASING VOL. BELOW TOOL Bbls  
 BOT OR OW DEPTH TOTAL Bbls  
 ANNUAL VOLUME Bbls

IS CASING/TUBING SECURED? YES  NO   
 LIFT PRESSURE: 709 PSI CASING WEIGHT + SURFACE AREA (3.14 x R<sup>2</sup>)  
 PRESSURE LIMIT: PSI BUMP PLUG TO: 1190 PSI  
 ROTATE: RPM RECIPROCATE FT No. of Centralizers: 3

JOB SCHEDULED FOR TIME: 0130 DATE: 6-25-93  
 ARRIVE ON LOCATION TIME: 0130 DATE: 6-25-93  
 LEFT LOCATION TIME: 0930 DATE: 6-25-93

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	TIME	DATE	TIME	DATE	TIME	DATE	
0001 to 2400											
0729	20	10			7	H2O					
0730	150	212			7	cmt	17.2				
0741	130	73			7	cmt	17.2				
0758	140	35			5	cmt	14.8				
0803	150	20			5	cmt	14.8				
0806	0										
0807	0	107.8			7	H2O					
0812	160	34			7						
0818	320	72			6.8						
0821	460	90			7						
0822	510	100			7						
0825	460	106			7						
0825	1190	108			7						
0826											
0827											

REMARKS: PRE-JOB SAFETY MEETING  
 start H2O ahead  
 start lead cmt.  
 PSI check  
 start tail cmt.  
 PSI check  
 shutdown drop top plug  
 start displacement  
 PSI check  
 " "  
 cement to surface  
 lower rate  
 PSI check  
 bump top plug  
 bleed psi at - check float & holding  
 end job

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED		
			1	2	3	4	BBLs	DENSITY	
1.	555	2.15	class C	35per	6% gel	2% crackz	1/4 #1029	212.5	12.2
3.	150	1.32	class C		2% crackz	1/4 #1029		352	14.8

BREAKDOWN FLUID TYPE:  HESITATION SO.  RUNNING SO.  CIRCULATION LOST  YES  NO  
 PRESSURE MAX. Cement Circulated To Surf.  YES  NO Bbls.  
 BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. 107.8 Bbls  
 Washed Thru Perfs  YES  NO TO FT. MEASURED DISPLACEMENT  WIRELINE  
 PERFORATIONS TO TO CUSTOMER REPRESENTATIVE: Al Humphreys  
 DS SUPERVISOR: James Esquivel

RELEASED  
 NOV 2 1 1994  
 FROM CONFIDENTIAL

OCT 19 1993  
 RECEIVED  
 STATE MINING CORPORATION COMMISSION



**WELL DATA**

FIELD \_\_\_\_\_ SEC **1** TWP **32S** RNG **31W** COUNTY **SEWARD** STATE **KS.**

FORMATION NAME \_\_\_\_\_  
FORMATION THICKNESS \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_  
INITIAL PROD: OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD  
PRESENT PROD: OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD  
COMPLETION DATE \_\_\_\_\_ MUD TYPE \_\_\_\_\_ MUD WT. \_\_\_\_\_  
PACKER TYPE **7.0** SET AT **3040' 19" G.L.**  
BOTTOM HOLE TEMP. \_\_\_\_\_ PRESSURE \_\_\_\_\_  
MISC. DATA \_\_\_\_\_ TOTAL DEPTH \_\_\_\_\_

**CONFIDENTIAL ORIGINAL**

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	15.5	5 1/2	KB+	6055	
PIPE						
TUBING		24	8 3/8	GL	1721	
OPEN HOLE			7 7/8	1721	6055	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

**JOB DATA**

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <b>7-7-93</b>	DATE <b>7-7-93</b>	DATE <b>7-7-93</b>	DATE <b>7-7-93</b>
TIME <b>0300</b>	TIME <b>0600</b>	TIME <b>0905</b>	TIME <b>0155</b>

**TOOLS AND ACCESSORIES**

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <b>Super Seal II 5 1/2</b>	<b>1</b>	
FLOAT SHOE <b>Super Seal II "</b>	<b>1</b>	
GUIDE SHOE <b>Cement Basket "</b>	<b>1</b>	<b>Howco</b>
CENTRALIZERS <b>S-4 "</b>	<b>11</b>	
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER <b>7.0 CENTER</b>	<b>1</b>	<b>Comp. Equipment</b>
OTHER		

**PERSONNEL AND SERVICE UNITS**

NAME	UNIT NO. & TYPE	LOCATION
<b>BROADFOOT</b>	<b>D4604</b>	<b>40048</b>
		<b>LIBERAL KS.</b>
<b>SMITH</b>	<b>C4463</b>	<b>52276</b>
		<b>76960</b>
		<b>"</b>
<b>MCINTYRE</b>	<b>D9704</b>	<b>52920</b>
		<b>5303</b>
		<b>HUGOTON KS.</b>

**MATERIALS**

TREAT. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL. °API  
DISPL. FLUID \_\_\_\_\_ DENSITY **KCC** LB/GAL. °API  
PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.  
PROP. TYPE \_\_\_\_\_ SIZE **OCT 1 B9**  
ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %  
ACID TYPE \_\_\_\_\_ GAL. **CONFIDENTIAL**  
ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %  
SURFACTANT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN  
NE AGENT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN  
FLUID LOSS ADD. TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN  
GELLING AGENT TYPE \_\_\_\_\_ GAL.-LB. **RELEASED**  
FRIC. RED. AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN  
BREAKER TYPE \_\_\_\_\_ GAL.-LB. **NOV 21 1994**  
BLOCKING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_  
PERFPAC BALLS TYPE \_\_\_\_\_  
OTHER **FROM CONFIDENTIAL**

DEPARTMENT **CEMENT**  
DESCRIPTION OF JOB **CEMENT 5 1/2" 7.0 LONG STRING**  
JOB DONE THRU: TUBING  CASING  ANNULUS  TBG./ANN.   
CUSTOMER REPRESENTATIVE **X [Signature]**  
HALLIBURTON OPERATOR **[Signature]** COPIES REQUESTED \_\_\_\_\_

**CEMENT DATA**

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<b>1</b>	<b>2100</b>	<b>PREMIER EA2</b>		<b>B</b>	<b>2% CC - 15% SALT - 5% SK GILSONITE 7% EA2 - 3% HALAD9 - 1/4% K D-A-R-1</b>	<b>1.45</b>	<b>15.2</b>

**PRESSURES IN PSI**

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_  
BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_  
AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_  
SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN \_\_\_\_\_ 15-MIN \_\_\_\_\_  
HYDRAULIC HORSEPOWER \_\_\_\_\_  
ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_  
AVERAGE RATES IN BPM \_\_\_\_\_  
TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_  
CEMENT LEFT IN PIPE \_\_\_\_\_  
FEET **3352** REASON **SHOE IT.**

**SUMMARY**

**VOLUMES**

PRESLUSH BBL.-GAL. **20 - 10** TYPE **3% KCL - Super Flush**  
LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD: BBL.-GAL. \_\_\_\_\_  
TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL. BBL.-GAL. **144 - 2% KCL**  
CEMENT SLURRY: BBL.-GAL. **67.1**  
TOTAL VOLUME: BBL.-GAL. \_\_\_\_\_

RAMARKS **RECEIVED**  
STATE CORPORATION COMMISSION

**OCT 20 1993**

CONSERVATION DIVISION  
Wichita, Kansas

CUSTOMER

CUSTOMER **MUSTANG OIL & GAS** LEASE **SAUNDELS** WELL NO. **1-1** JOB TYPE **5 1/2" 7.0 LONG STRING**



JOB LOG FORM 2013 R-3

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
MUSTANG DIL & GAS		1-1		SAUNDERS		5 1/2" 7.0. LONG STRING		507357	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T.	C.	TUBING	CASING		
	0300								CALLED OUT READY 0600
	0600								ON LOCT. L.D.D.P.
	0715								KCC START RUNNING CSG.
	1024								OCT 19 HOOK UP HEAD IN DERRICK
	1045								CONFIDENTIAL BROKE CIRCULATION WAIT TO
	1130								PULL M.H. & R.H. TO CMT. FIRST
	1205								HOOK UP TO TRUCK PUMP SPACERS
	1207	5	10				230		3% KCL SPACER
	1209	5	10				230		SUPER FLUSH
	1211	5	10				0		3% KCL SPACER
	1213	1	3				0		CMT. R.H. & T.H.
	1220	0	0				0		HOOK UP TO HEAD TO CMT.
	1222	6	64				200		START CMT. 15.7#/gal.
	1233	0	0				0		SHUT DOWN DROP TOP PLUG & WASH PUMPS & LINES
	1240	6	134				600		START DISPLACEMENT 2% KCL
	1300	2	144				1500		SLOW RATE DOWN
	1305	0	0				0		JOB OVER PLUG LANDED & HELD
<p>THANK YOU FOR CALLING HALLIBURTON ENERGY SERVICES TIM BROADFOOT &amp; CREW</p>									
<p><b>RELEASED</b></p> <p>NOV 21 1994</p> <p>FROM CONFIDENTIAL</p>									
<p>RECEIVED STATE CORPORATION COMMISSION</p> <p>OCT 20 1993</p> <p>CONSERVATION DIVISION Wichita, Kansas</p>									



CHARGE TO:  
**MUSTANG OIL & GAS**  
 ADDRESS  
**155 S. MARKET 350<sup>th</sup>**  
 CITY, STATE, ZIP CODE  
**WICHITA KS. 67202**

COPY

TICKET

No.

507357 - 4

PAGE 1 OF

FORM 1906 R-12

SERVICE LOCATIONS 1. 025540	WELL/PROJECT NO. 1-1	LEASE SAUNDERS	COUNTY/PARISH SEWARD	STATE KS.	CITY/OFFSHORE LOCATION	DATE 7-7-93	OWNER MUSTANG OIL & GAS
2. 025535	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input type="checkbox"/> NO.	CONTRACTOR MURFIN	RIG NAME/NO. MURFIN 22	SHIPPED VIA P.U.	DELIVERED TO LOCATION	ORDER NO.
3.	WELL TYPE 01	WELL CATEGORY 01	JOB PURPOSE 035	WELL PERMIT NO.	WELL LOCATION NW OF PLAINS KS.		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		UNIT PRICE		AMOUNT	
		LOC.	ACCT.	DF			QTY.	U/M	QTY.	U/M		
000-117						MILEAGE	30	mi	1	UNIT	2.75	82.50
001-016						PUMP CHARGE	6055	hr	8	HRS		1745.00
030-018						5 1/2" TOP PLUG 5W	5 1/2	IN	1	EA		65.00
4A	836.07100					FLOAT COLLAR SS II	1	"	1	"		253.00
5A	837.07100					FLOAT SHOE SS II	1	"	1	"		225.00
40	807.93022					S-4 CENTRALIZERS	11	"	11	EA		484.00
32D	800.8883					CEMENT BASKET	1	"	1	EA		110.00
218.738						CLAFIX II	1	IGAL	15	GAL		322.50
018.317						SUPER FLUSH	1	SK	10	SKs		1000.00

FROM CONFIDENTIAL

NOV 2 1994

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**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

SUB SURFACE SAFETY VALVE WAS:  
 PULLED & RETURN  PULLED  RUN

TYPE LOCK	DEPTH	
BEAN SIZE	SPACERS	
TYPE OF EQUALIZING SUB.	CASING PRESSURE	
TUBING SIZE	TUBING PRESSURE	WELL DEPTH

SURVEY		AGREE	UN-DECIDED	DIS-AGREE
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	<input checked="" type="checkbox"/>			
WE UNDERSTOOD AND MET YOUR NEEDS?	<input checked="" type="checkbox"/>			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?	<input checked="" type="checkbox"/>			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?	<input checked="" type="checkbox"/>			

CUSTOMER OR CUSTOMER'S AGENT SIGNATURE  
*AL Hammersmith*  
 DATE SIGNED: 7-19-93  
 TIME SIGNED: 0800  
 A.M.  
 P.M.  
 not require IPC (Instrument Protection).  Not offered

TREE CONNECTION \_\_\_\_\_ TYPE VALVE \_\_\_\_\_

ARE YOU SATISFIED WITH OUR SERVICE?  
 YES  NO  
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL  
 FROM CONTINUATION PAGE(S)  
 6232 29  
 SUB-TOTAL:  
 APPLICABLE TAXES WILL BE ADDED ON INVOICE

**CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES** The customer hereby acknowledges receipt of the materials and services listed on this ticket:

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) <i>AL Hammersmith</i>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <i>AL Hammersmith</i>	HALLIBURTON OPERATOR/ENGINEER <i>Jim Bradford</i>	EMP # A4604	HALLIBURTON APPROVAL 10514.29
--	---	--	----------------	----------------------------------