

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.

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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^S-31^W Elevation 27⁵⁸ 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

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

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

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

from [B]	<u>147</u>	P.S.I. to [C]	<u>157</u>	P.S.I.
[D]	<u>495</u>			P.S.I.
from [E]	<u>168</u>	P.S.I. to [F]	<u>168</u>	P.S.I.
[G]	<u>840</u>			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 spotted 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

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

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

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_____ 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.

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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

ORIGINAL CONFIDENTIAL

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
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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

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PRESSURE (P S I G)

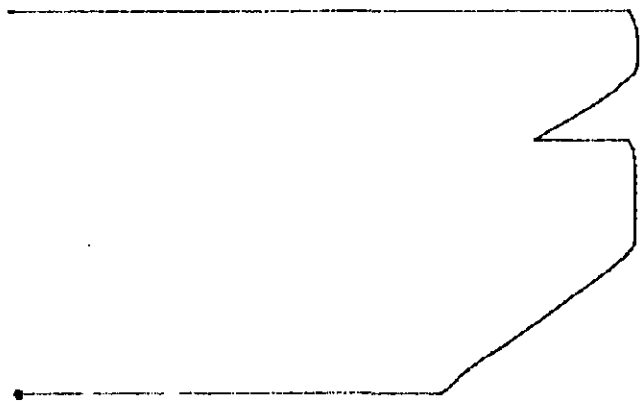
4000 3600 3200 2400 2000 1600 800 0

+ + + + + + + + + +

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

TIME (MINUTES)

KCC
OCT 19
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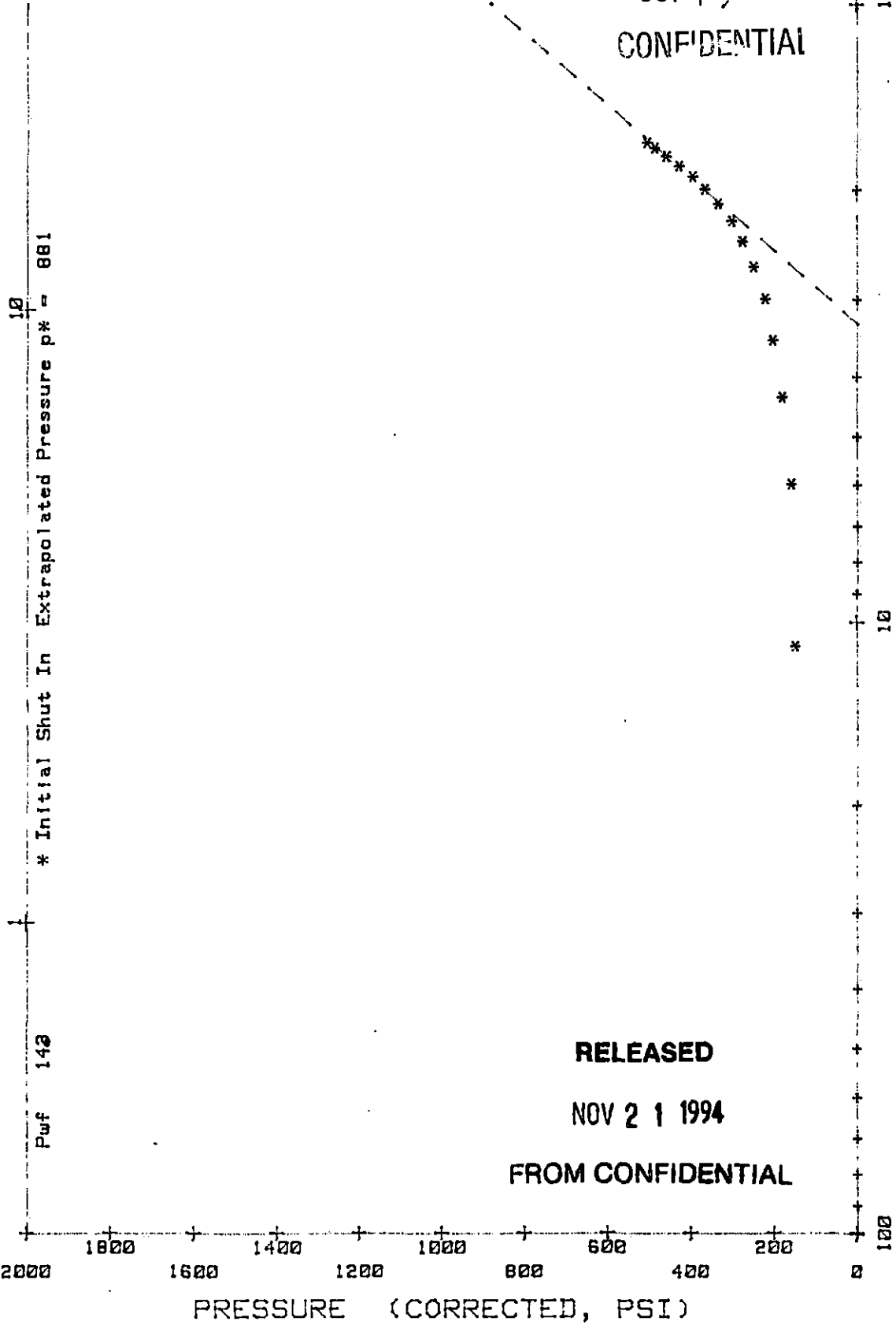
FROM CONFIDENTIAL

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



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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.

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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.

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GAUGE # : 13561

DATE : 6-20-1993

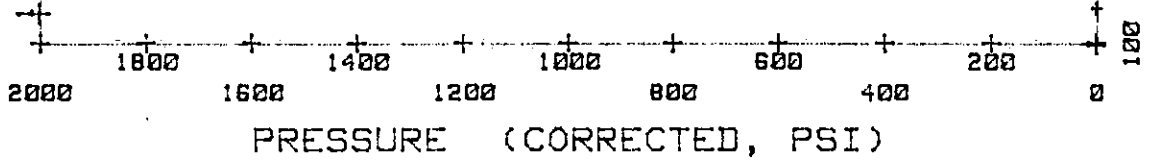
LOCATION : 1-32S-31W

100

10

X Final Shut In Extrapolated Pressure p* = 1533

Pwf 150



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 :

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		
-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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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

KCC

OCT 19

INTERPRETIVE DATA (OIL)

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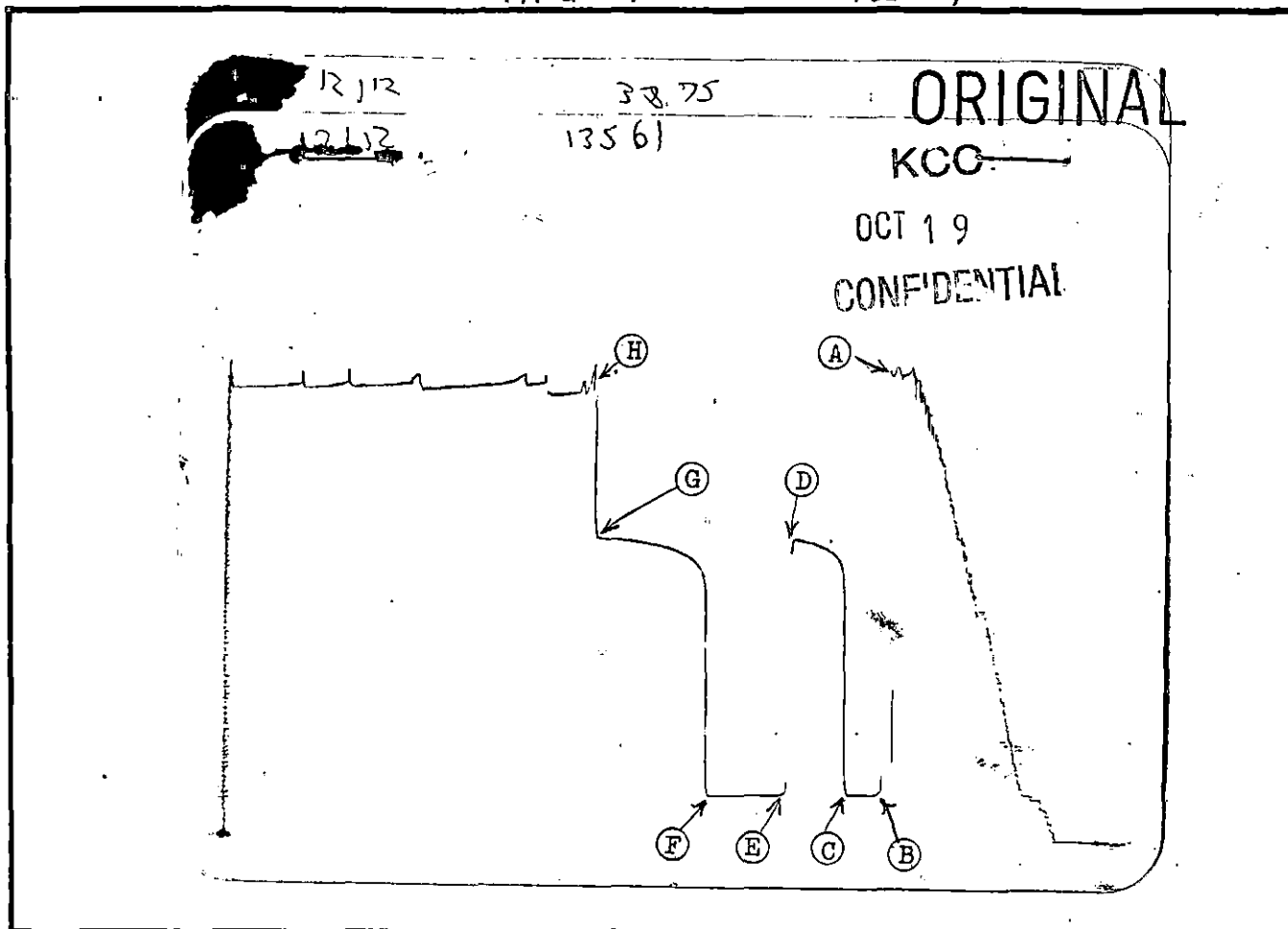
EXTRAPOLATED RESERVOIR PRESSURE (psi):	1533.00
Slope of Build-up Curve (psi/log cycle):	2254.78
Effective Producing Time (min):	90.00

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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Superior Testers Enterprises, Inc

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

(316) 792-6902

CONFIDENTIAL

Date 7 2 93 Location 1- 32^s - 31^w Elevation 2791^{KB} 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

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

CONFIDENTIAL

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.

ORIGINAL

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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^S Rg. 21^W

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
PRE FLOW							
655	10			20		1 ^{1/2}	699 mcf
705	20		KCC	22		1 ^{1/2}	773 mcf
715	30		OCT 9	23		1 ^{1/2}	796 mcf
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SECOND FLOW							
810	10			22		1 ^{1/2}	773 mcf
820	20			24		1 ^{1/2}	817 mcf
830	30			26		1 ^{1/2}	865 mcf
840	40			26		1 ^{1/2}	865 mcf
850	50			26		1 ^{1/2}	865 mcf
860	60			25		1 ^{1/2}	840 mcf
							RELEASED
							NOV 21 1994
							FROM CONFIDENTIAL

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

OCT 19

CONFIDENTIAL

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 * Def1. + .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

RELEASED

NOV 21 1994

FROM CONFIDENTIAL

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. - KCC

FROM CONFIDENTIAL

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

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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

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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

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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	

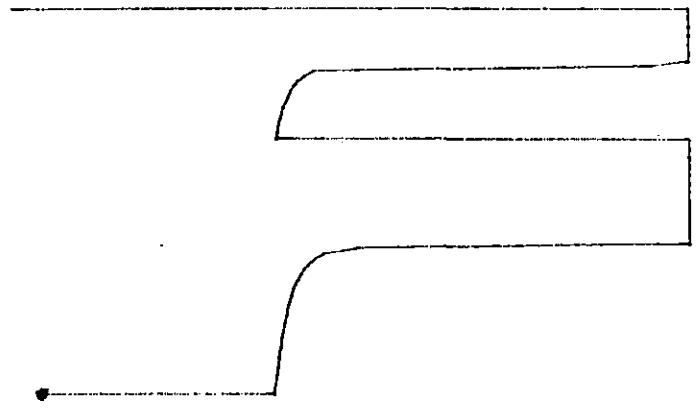
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PRESSURE (P S I G)

4000 3600 3200 2800 2400 2000 1600 1200 800 400 0

-180 -90 0 90 180 270 360 450 540 630 720
TIME (MINUTES)

ORIGINAL KCC
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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

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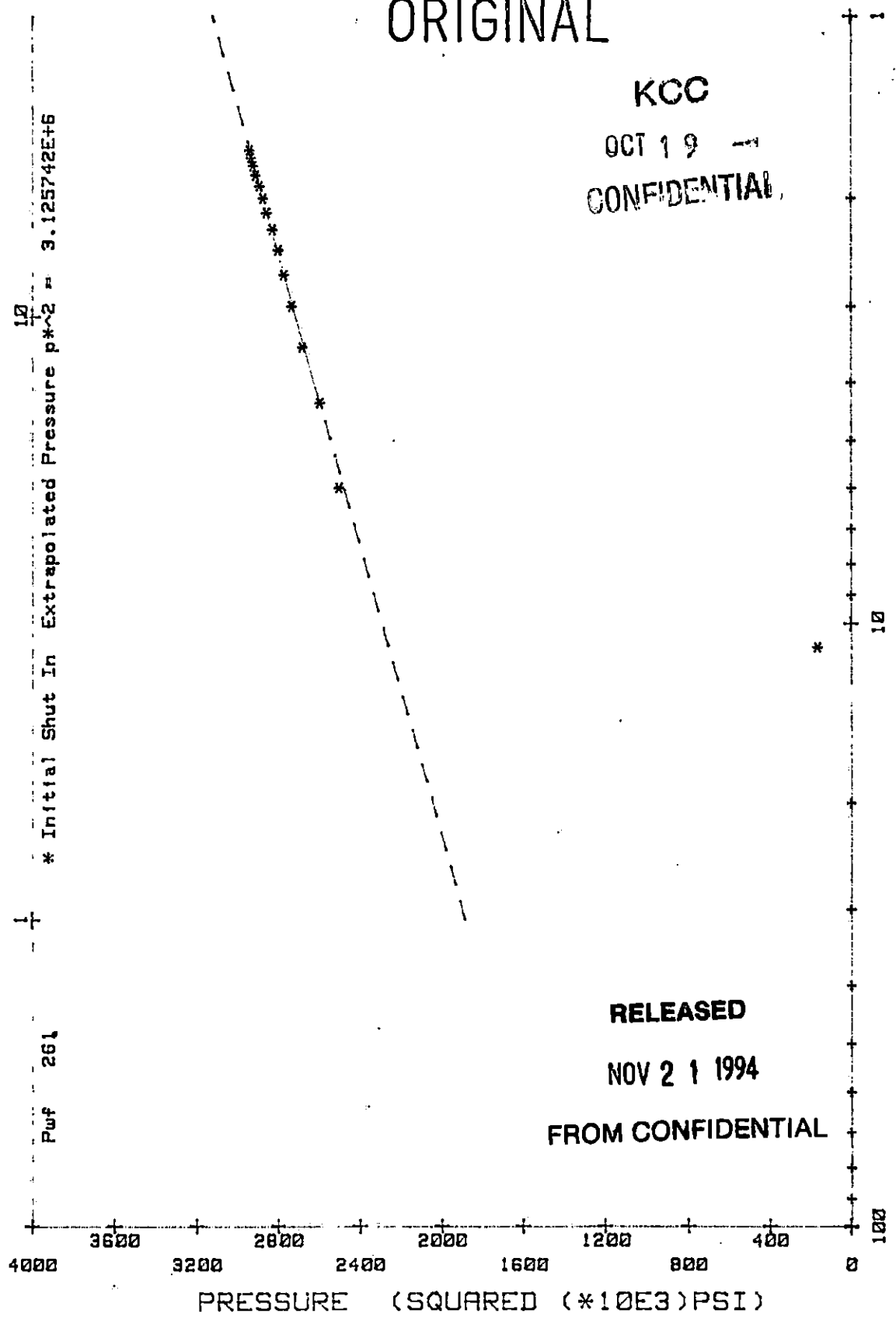
OCT 19
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GAUGE # : 13561

DATE : 7-2-1993

LOCATION : 1-32S-31W

P_{wf} 261
* Initial Shut In Extrapolated Pressure $p^* \times 10^3 = 3.125742E+6$



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

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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	

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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

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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

100

10

X Final Shut In Extrapolated Pressure p*2 = 3.158988E+6

Pwf 253

4000 3600 3200 2800 2400 2000 1600 1200 800 400 0 100

PRESSURE (SQUARED (*10E3) PSI)

ORIGINAL

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10

100

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

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	

RELEASED

NOV 21 1994

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 : 2

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OCT 19

CONFIDENTIAL

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⁻¹): 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⁻¹): 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

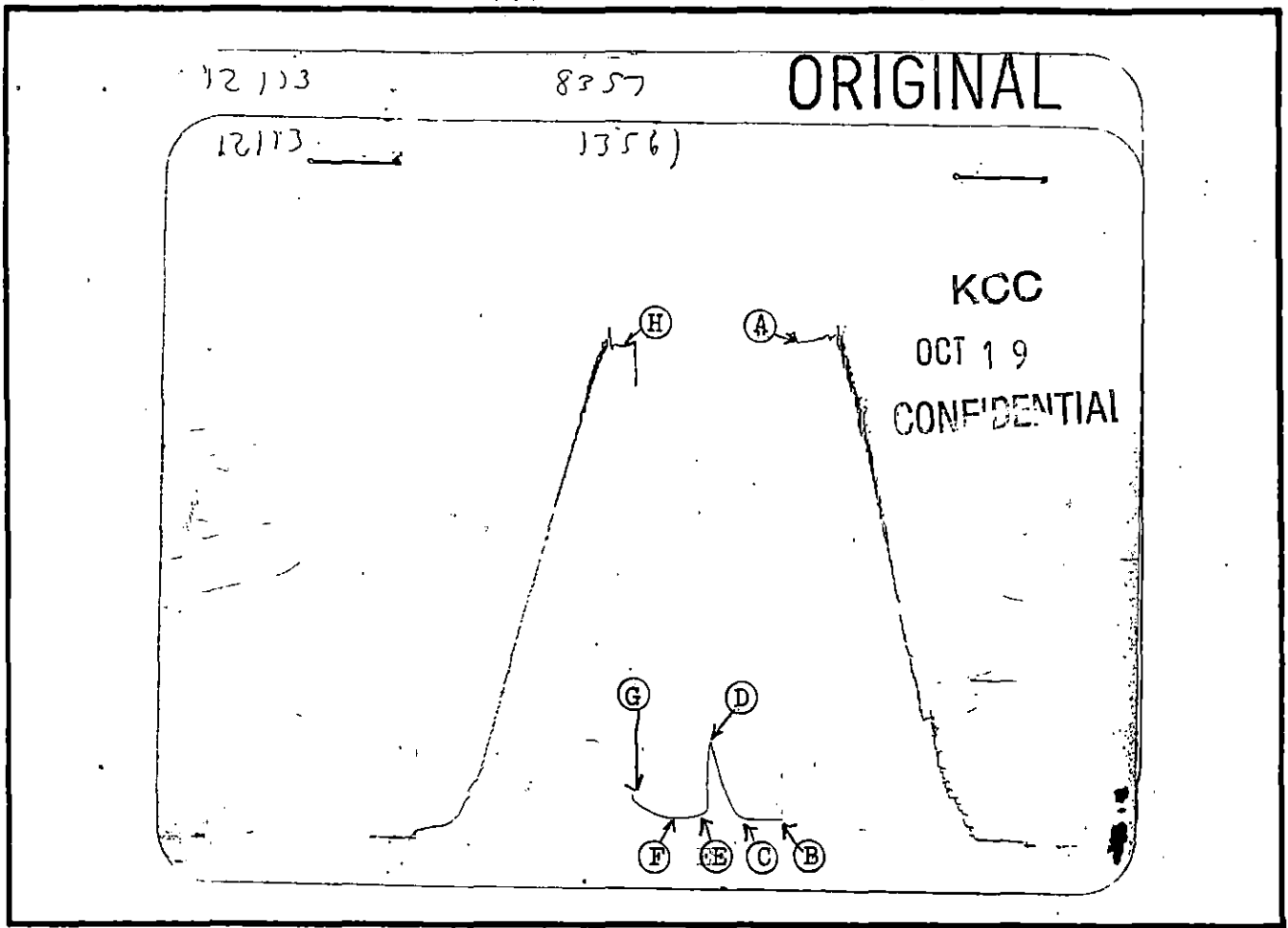
Effective Producing Time (min): 90.00

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NOV 2 1 1994

FROM CONFIDENTIAL

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.

RELEASED

NOV 21 1994

FROM CONFIDENTIAL

COMPANY Mustang Oil & Gas Corp. LEASE - WELL NO Saunders #1-1 SEC 1 IWP 328 REC. 31w 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^{RB} 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

RELEASED

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FROM CONFIDENTIAL

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

KCC

OCT 19

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

RELEASED

RECOVERY

Recovered 90 feet of DRILLING MUD

NOV 21 1994

FROM CONFIDENTIAL

REMARKS :

WITNESSED BY : BOB DOUGLASS TOOL OPERATOR : PAT STEVENSON

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

RELEASED

SUPERIOR TESTERS ENTERPRISES INC.

NOV 21 1994

SUBSURFACE PRESSURE MEASUREMENTS
FROM CONFIDENTIAL

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KCC

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

ORIGINAL

CONFIDENTIAL

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)

ORIGINAL

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OCT 19
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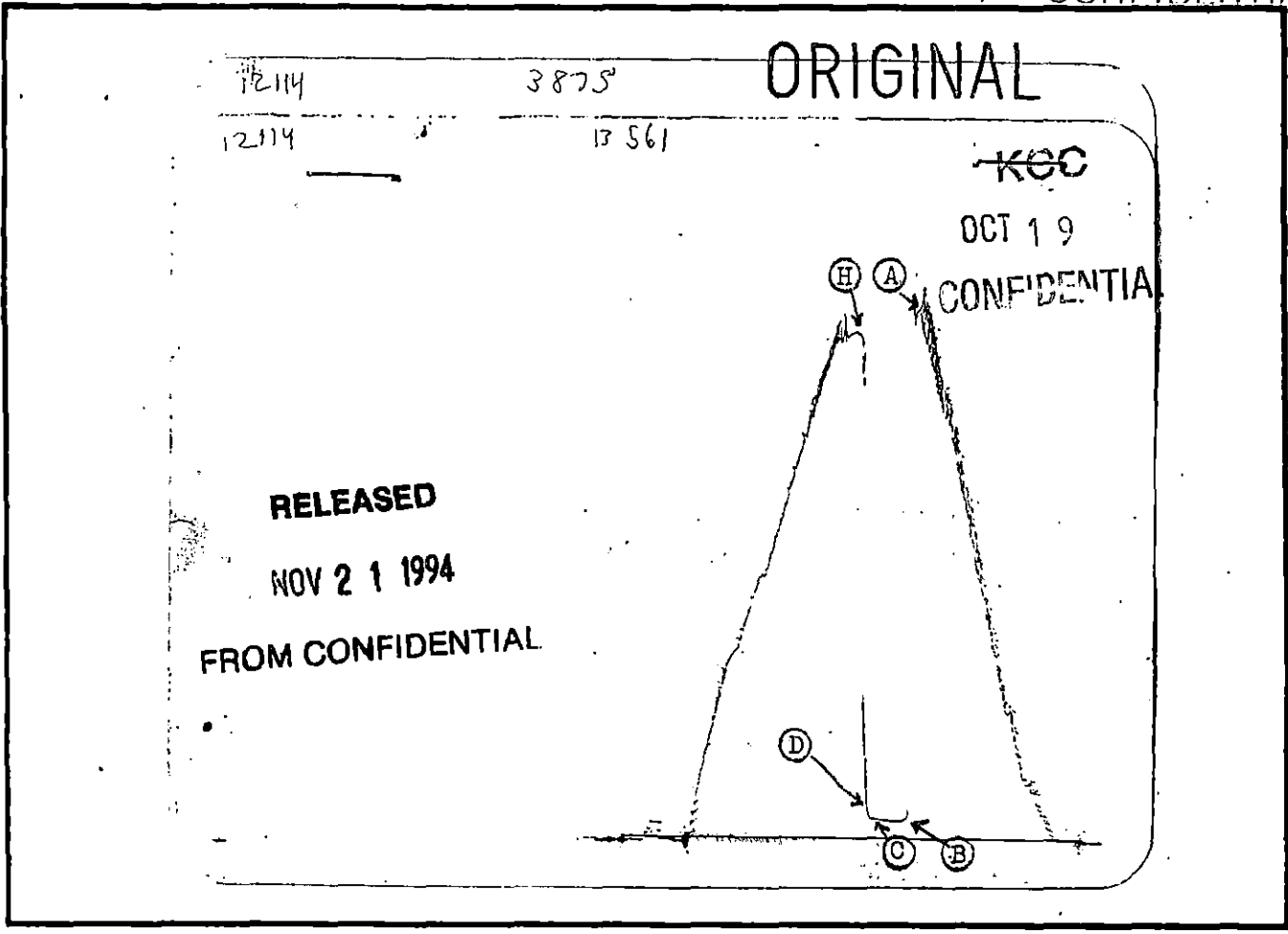


RELEASED

NOV 21 1994

FROM CONFIDENTIAL

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



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. 26 S. RGE. 21 W. 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

2791 RB

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Date 7 6 93 Location 1 32^S-31^W Elevation 2791 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 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

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

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.

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 _____

3000 Feet of Drilling mud % Gas _____ % Oil _____ % Mud _____ % Water _____

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

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

Feet of _____ **NOV 21 1994** % Gas _____ % Oil _____ % Mud _____ % Water _____

Feet of _____ **FROM CONFIDENTIAL** % 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.

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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

ORIGINAL KCC
OCT 19

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-kb) : 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
CAL. EQU. : 1048.18 * Defl. + .46

CLOCK RANGE : 12 HOURS

SURFACE BLOW

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

RECOVERY

Recovered 3000 feet of MUD

RELEASED

NOV 21 1994

FROM CONFIDENTIAL

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

KCC
 OCT 19

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

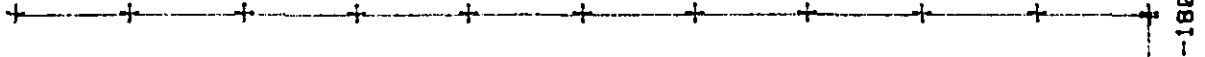
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PRESSURE (P S I G)

4000 3600 3200 2800 2400 2000 1600 1200 800 400 0

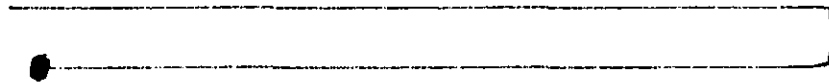


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TIME (MINUTES)

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

RELEASED

NOV 21 1994

FROM CONFIDENTIAL

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