

15-129-21577

20-325-40w

Superior Testers Enterprises, Inc. ORIGINAL

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

(316) 792-6902

CONFIDENTIAL

Date 3-15-1999 Location C 9/2 N/E 20-32-40 Elevation 3240 86 County Martin

Company HARRIS OIL AND GAS COMPANY Number of Copies 5

Charts Mailed to 1125 17th Street Suite 2290 DENVER COLORADO 80202

Drilling Contractor Allen Drilling Rig #2

Length Drill Pipe 2744 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" X.H.

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

Length Drill Collars 516 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X.H.

Top Packer Depth 3277 Bottom Packer Depth 3344 Number of Packers 4 Packer Size 6 3/4

TESTED FROM 3282 TO 3344 ANCHOR LENGTH 62 TOTAL DEPTH 3450 Hole Size 7 7/8

LEASE & WELL NO. MUSGRAVE # 1-720 FORMATION TESTED TOPEKA TEST NO. 1

Mud Weight 9.0 Viscosity 47 Water Loss 8.2 Chlorides - Pits 1300 D.S.T. _____

Maximum Temp. 101 °F Initial Hydrostatic Pressure (A) 1629 P.S.I. Final Hydrostatic Pressure (H) 1608 P.S.I.

Tool Open I.F.P. from 6:00 P.m to 6:30 P.m 30 min

Tool Closed I.C.I.P. from 6:30 P.m to 7:30 P.m 60 min

Tool Open F.F.P. from 7:30 P.m to 8:00 P.m 30 min

Tool Closed F.C.I.P. from 8:00 P.m to 9:00 P.m 60 min

Initial Blow STEADY 3 inch blow

Final Blow VERY WEAK SURFACE blow for 14 minutes & DIED

Total Feet Recovered 320 Gravity of Oil _____ Corrected

320 Feet of Drilling mud no shows of Gas %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 YES 2 Straddle YES Hook Wall NONE

Top Recorder No. 78225 Clock No. ELECTRONIC Depth 3308 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 5463 Clock No. 47441 Depth 3447 Insurance NONE

Price of Job _____

Tool Operator Steve Budig

Approved By _____

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

from [B] 59 P.S.I. to [C] 165 P.S.I.
[D] 535 P.S.I.
from [E] 176 P.S.I. to [F] 234 P.S.I.
[G] 532 P.S.I.

RELEASED
APR 20 2001
APR 08 1999
CONFIDENTIAL
FROM CONFIDENTIAL

NO 11008

ORIGINAL

SUPERIOR TESTERS ENTERPRISES INC.

Great Bend, Kansas

CHART DATA

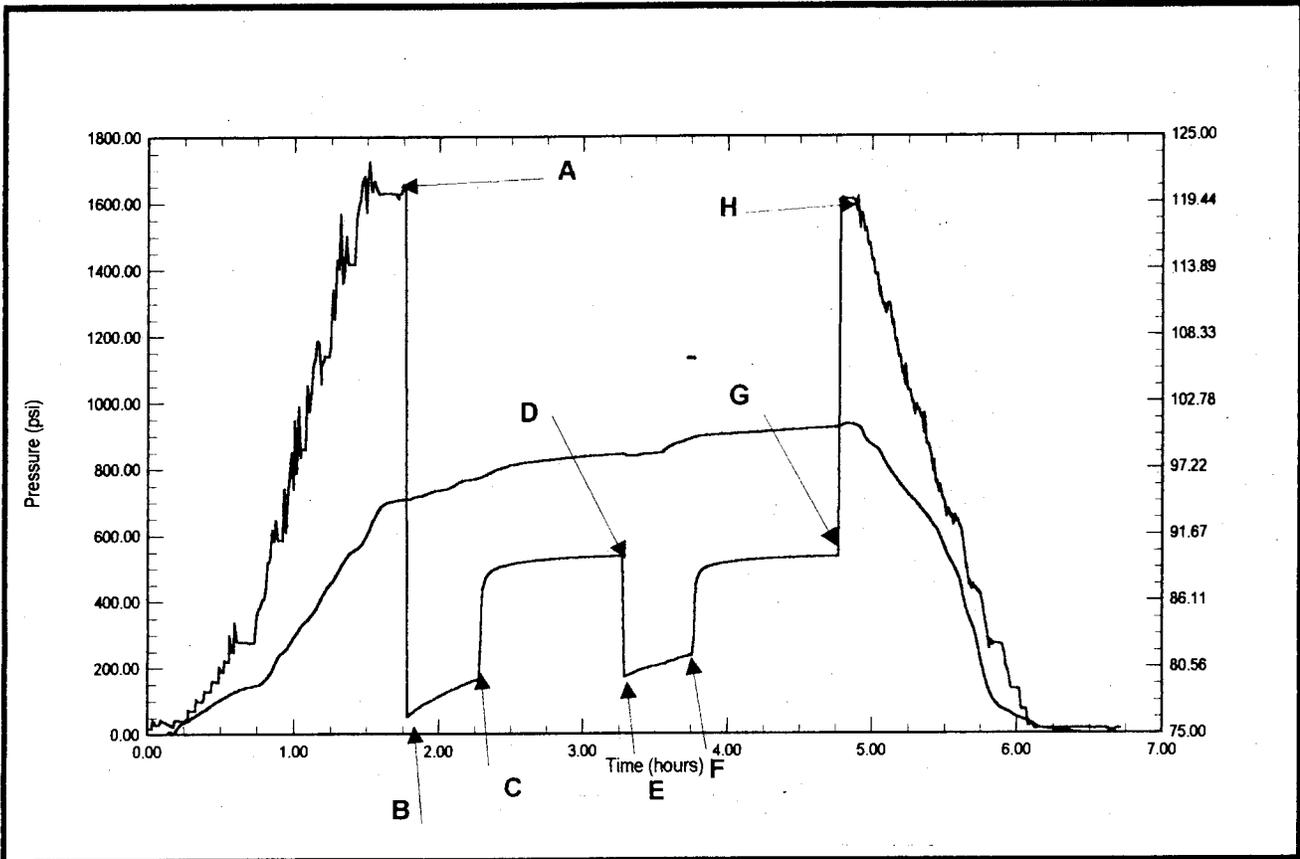
(316) 792-6902

State KANSAS
County MORTON
Field

Test Date March 15, 1999
Sec Town Range C-S/2-NE 20-32S-40W
Report Number 11008

CONFIDENTIAL

Company: HARRIS OIL & GAS COMPANY Lease & Well No. MUSGROVE #1-720 Test # 1 Date: 3-15-1999
SEC. 20 TWP. 32S RGE. 40W



Field Reading

(A)	Initial Hydrostatic Pressure	1629
(B)	Initial Flow Pressure	59
(C)	Final Initial Flow Pressure	165
(D)	Initial Shut-In Pressure	535
(E)	Initial Final Flow Pressure	176
(F)	Final Flow Pressure	234
(G)	Final Shut-In Pressure	532
(H)	Final Hydrostatic Pressure	1608

KCC

APR 08 1999

RELEASED CONFIDENTIAL

APR 20 2001

FROM CONFIDENTIAL

ELECTRONIC RECORDER DEPTH 3308 FT, RECORDER NUMBER 78225

SUPERIOR TESTERS ENTERPRISES INC.
DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

GENERAL INFORMATION

COMPANY NAME	HARRIS OIL AND GAS COMPANY	LEASE AND WELL NUMBER	MUSGROVE #1-720
TEST DATE	3/15/99	FORMATION TESTED	TOPEKA
SECTION-TOWN-RANGE	C-S/2-NE 20-32S-40W	DRILL STEM TEST NUMBER	1
STATE	KANSAS	REPORT NUMBER	11008
COUNTY	MORTON	ELEVATION KELLY BUSHINGS	3359
ELEVATION GROUND LEVEL	3350	TESTING ENGINEER	GENE BUDIG
COMPANY REPRESENTATIVE	TOMMYE DISEKER		

TOOL SETTING INFORMATION

TEST INTERVAL (From)	3282	TOP PACKER DEPTH	3277-3282
TEST INTERVAL (to)	3344	BOTTOM PACKER DEPTH	3344-3349
ANCHOR LENGTH	62	NUMBER OF PACKERS	2
TOTAL DEPTH (ft)	3450	PACKER SIZE	6 3/4
		HOLE SIZE	7 7/8

FLOW TIMES

INITIAL OPEN

TOOL OPEN (from) **6:00**
 TOOL OPEN (to) **6:30**
 DURATION (min.) **30**

INITIAL SHUT-IN

TOOL CLOSED (from) **6:30**
 TOOL CLOSED (to) **7:30**
 DURATION (min.) **60**

FINAL OPEN

TOOL OPEN (from) **7:30**
 TOOL OPEN (to) **8:00**
 DURATION (min.) **30**

FINAL SHUT-IN

TOOL CLOSED (from) **8:00**
 TOOL CLOSED (to) **9:00**
 DURATION (min.) **60**

PRESSURE READINGS

INITIAL HYDROSTATIC **1629**
 INITIAL FLOW **59**
 FINAL INITIAL FLOW **165**
 INITIAL SHUT-IN **535**
 INITIAL FINAL FLOW **176**
 FINAL FLOW **234**
 FINAL SHUT-IN **532**
 FINAL HYDROSTATIC **1608**

MAXIMUM TEMPERATURE **101**

TOP RECORDER DEPTH **3308**
 RECORDER NUMBER **78225**
 BOTTOM RECORDER DEPTH **3447**
 RECORDER NUMBER **5463**

KCC
APR 08 1999
CONFIDENTIAL

INITIAL BLOW

STEDY 3 INCH BLOW

FINAL BLOW

VERY WEAK SURFACE BLOW FOR 14 MINUTES AND DIED

RELEASED
APR 20 2001
FROM CONFIDENTIAL

EXTRA EQUIPMENT

JARS	YES	ELECTRONIC RECORDER	YES
SAFETY JOINT	YES	STRADDLE	YES
EXTRA PACKER (3RD)	YES	HOOK WALL	NO
EXTRA PACKER (4TH)	YES	SAMPLER	NO
		CIRCULATING SUB	NO

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

WELL INFORMATION

DRILLING CONTRACTOR **ALLEN DRILLING RIG #2**

DRILL PIPE LENGTH **2744**

DRILL PIPE I.D. **3.8**

TOOL JOINT SIZE **4 1/2 X.H.**

DRILL COLLAR LENGTH **516**

DRILL COLLAR I.D. **2.25**

TOOL JOINT SIZE **4 1/2 X.H.**

WEIGHT PIPE LENGTH

WEIGHT PIPE I.D. **2.25**

TOOL JOINT SIZE **4 1/2 X.H.**

MUD WEIGHT #/GAL **9**

VISCOSITY **47**

WATER LOSS **8.2**

CHLORIDES-PITS **1300**

CHLORIDES-DST

FEET OF RECOVERY		RECOVERY DESCRIPTION	% GAS	% OIL	% MUD	% WATER
1)	320	DRILLING MUD NO SHOWS OF GAS			100	
2)						
3)						
4)						
5)						
6)						
7)						
8)						
9)						
10)						
11)						
12)						
13)						
14)						
15)						

KCC
APR 08 1999
CONFIDENTIAL

TOTAL RECOVERY

COMMENTS

RELEASED
APR 20 2001
FROM CONFIDENTIAL