

13-24s-14w
15-185-23427

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

Date 7-17-07 Location 13-29-14 Elevation 1919 County Stafford

Company Ramco Operating Number of Copies 3

Charts Mailed to PO Box 159, Stafford, MS 38576

Drilling Contractor: Sterling Rig #1

Length Drill Pipe 3449 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2 x IF

Length Weight Pipe _____ I.D. Weight Pipe _____ Tool Joint Size _____

Length Drill Collars 240 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2 X H

Length 2110 3713 Bottom 3708 Number of Packers 7 Packer Size 6 3/4

Top Packer Depth 2103 Bottom Packer Depth 2100 Number of Packers 1 Packer Size 10
~~2103~~ 3708 3753 ANCHOR LENGTH 45 TOTAL DEPTH 3753 Hole Size 7 7/8

TESTED FROM 20 TO 30, ANCHOR LENGTH 10 TOTAL DEPTH 30 Hole Size 1.5
11 N=13 (Anchor # = T = 7) 1

LEASE & WELL NO. HAMMON J 13 FORMATION TESTED LABS 1111 TEST NO. 11
911 53 113 1150

Mud Weight 11.9 Viscosity 56 Water Loss 11.2 Chlorides - Pits 10.3 D.S.T. 1894

Maximum Temp. 105 °F Initial Hydrostatic Pressure (A) 1779 P.S.I. Final Hydrostatic Pressure (H) 1701 P.S.I.

Tool Open I.F.P. from 3:10 m to 3:40 m 30 min from [B] 238 P.S.I. to [C] 281 P.S.I.

Tool Closed I.C.I.P. from 5:40 m to 6:10 m 30 min [D] 821 P.S.I.

Tool Open F.F.P. from 6:10 m to 6:25 m 15 min from [E] 270 P.S.I. to [F] 280 P.S.I.

Tool Closed F.C.I.P. from 6:25 m to 6:53 m 30 min (G) 871 P.S.I.

Initial Blow: Strong Blow Bottom Bucket Less 2 min due to Surface 2 mry

Final Blow Strong Blow Bottom Bucket when tool open

Total Feet Recovered 130 Gravity of Oil _____ Corrected _____

130 Feet of Mud % Gas % Oil 100 % Mud % Water

Feet of	% Gas	% Oil	% Mud	% Water
150				
100				
50				
0				

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

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

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

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

Remarks _____

Extra Equipment - Jars _____ Safety Joint _____ Extra Packer _____ Straddle _____ Hook Wall _____

Top Recorder No. 91986 Clock No. 212 Depth 3749 Cir. Sub. — Sampler —

Top Recorder No. 4563 Clock No. 4337 Depth 3790 Insurance _____

Price of Job _____

Price of Job PAID

Tool Operator John J. Smith

Approved By No 14312

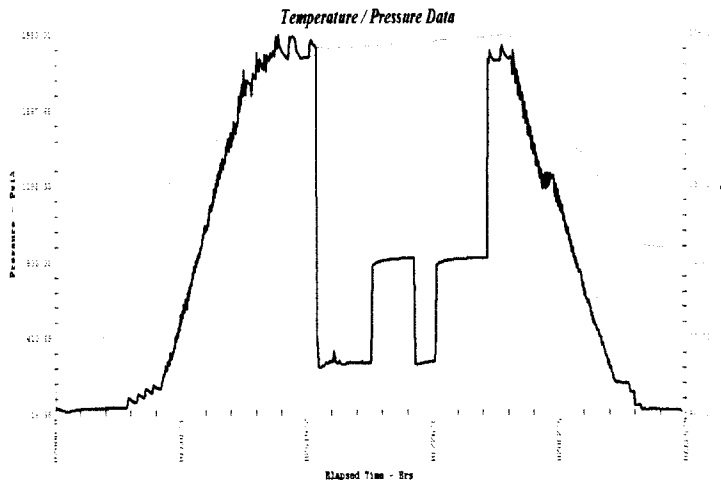
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SUPERIOR TESTERS ENTERPRISES L.L.C.

1(800)792-6902

DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530



1	Initial Hydrostatic Pressure	1949
2	Initial Flow Pressure	258
3	Final Initial Flow Pressure	281
4	Initial Shut-In Pressure	821
5	Initial Final Flow Pressure	270
6	Final Flow Pressure	286
7	Final Shut-In Pressure	821
8	Final Hydrostatic Pressure	1894

Maximum Temperature 108

GENERAL INFORMATION

COMPANY NAME	 RAMA OPERATING	LEASE AND WELL NUMBER	 HARRISON 5-13
TEST DATE	 2/17/07	FORMATION TESTED	 LANSING H-I-J
SECTION-TOWN-RANGE	 13-24-14	DRILL STEM TEST NUMBER	 1
STATE	 KANSAS	REPORT NUMBER	 14-3-12
COUNTY	 STAFFORD	ELEVATION KELLY BUSHINGS	 1928
ELEVATION GROUND LEVEL	 1919	TESTING ENGINEER	 DAVID NICHOLS
COMPANY REPRESENTATIVE	 JOSH		

TOOL SETTING INFORMATION

TEST INTERVAL (From)	 3708	TOP PACKER DEPTH	
TEST INTERVAL (to)	 3753	BOTTOM PACKER DEPTH	 5
ANCHOR LENGTH	 45	NUMBER OF PACKERS	 2
TOTAL DEPTH (ft)	 3753	PACKER SIZE	 6 3/4
		HOLE SIZE	 7 7/8

FLOW TIMES

INITIAL OPEN		FINAL OPEN	
TOOL OPEN (from)	 5:10	TOOL OPEN (from)	 6:10
TOOL OPEN (to)	 5:40	TOOL OPEN (to)	 6:25
DURATION (min.)	 30	DURATION (min.)	 15
INITIAL SHUT-IN		FINAL SHUT-IN	
TOOL CLOSED (from)	 5:40	TOOL CLOSED (from)	 6:25
TOOL CLOSED (to)	 6:10	TOOL CLOSED (to)	 6:55
DURATION (min.)	 30	DURATION (min.)	 30

INITIAL FLOW

STRONG BLOW BOTTOM OF BUCKET IN LESS 1 MIN GAS TO SURFACE IN 2 MIN

FINAL FLOW

STRONG BLOW BOTTOM OF BUCKET IN LESS 1 MIN

14 Company: RAMA OPERATING Lease & Well No. HARRISON 5-13 Test #: 1 Date: 2-17-07 SEC. 13 TWP. 24 RGE.

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DRILL STEM TEST REPORT

GREAT BEND ,KANSAS 67530 (800)792-6902

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ELEVATION GROUND LEVEL	1919	TESTING ENGINEER	DAVID NICHOLS
COMPANY REPRESENTATIVE	JOSH		

EXTRA EQUIPMENT

JARS	NO	EXTRA PACKER (3RD)	NO
SAFETY JOINT	NO	EXTRA PACKER (4TH)	NO
ELECTRONIC RECORDER	NO	STRADDLE	NO
CIRCULATING SUB	NO	HOOK WALL	NO
		SAMPLER	NO
	62 MILES ROUND TRIP FROM		GREAT BEND
TOP RECORDER DEPTH	3749	BOTTOM RECORDER DEPTH	3750
RECORDER NUMBER	4023	RECORDER NUMBER	3088

WELL INFORMATION

DRILLING CONTRACTOR	STERLING RIG#1	DRILL COLLAR LENGTH	240
DRILL PIPE LENGTH	3449	DRILL COLLAR I.D.	2.25
DRILL PIPE I.D.	3.8	TOOL JOINT SIZE	4 1/2 X.H.
TOOL JOINT SIZE	4 1/2 X.H.		

COMMENTS

Recovery Sample Description

Great Bend, Kansas 67530

[illegible]

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Temperature / Pressure Data

