

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name MADDY W.O. #1 Test No. 1 Date 1/23/93
Company HUMMON CORPORATION Zone BASAL SAND
Address 200 W DOUGLAS #1020 WICHITA KS 67202 Elevation 2415
Co. Rep./Geo. DAVID GOLDAK Cont. EMPHASIS DRLG RIG #8 Est. Ft. of Pay _____
Location: Sec. 4 Twp. 3S Rge. 24W Co. NORTON State KS

Interval Tested 3652-3710 Drill Pipe Size 4.5" XH
Anchor Length 58 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3645 Drill Collar - 2.25 Ft. Run 186
Bottom Packer Depth 3652 Mud Wt. 9.1 lb/Gal.
Total Depth 3710 Viscosity 44 Filtrate 12.6

Tool Open @ 11:45 AM Initial Blow STRONG BLOW - HIT BRIDGE HARD 10 STANDS OFF BOTTOM
12-16' OF HARD FILL ON BOTTOM / SLID TOOL-COULDN'T GET TO BOTTOM
Final Blow PACKERS FAILED-TRIED TO RESET

Recovery - Total Feet 360 Flush Tool? _____

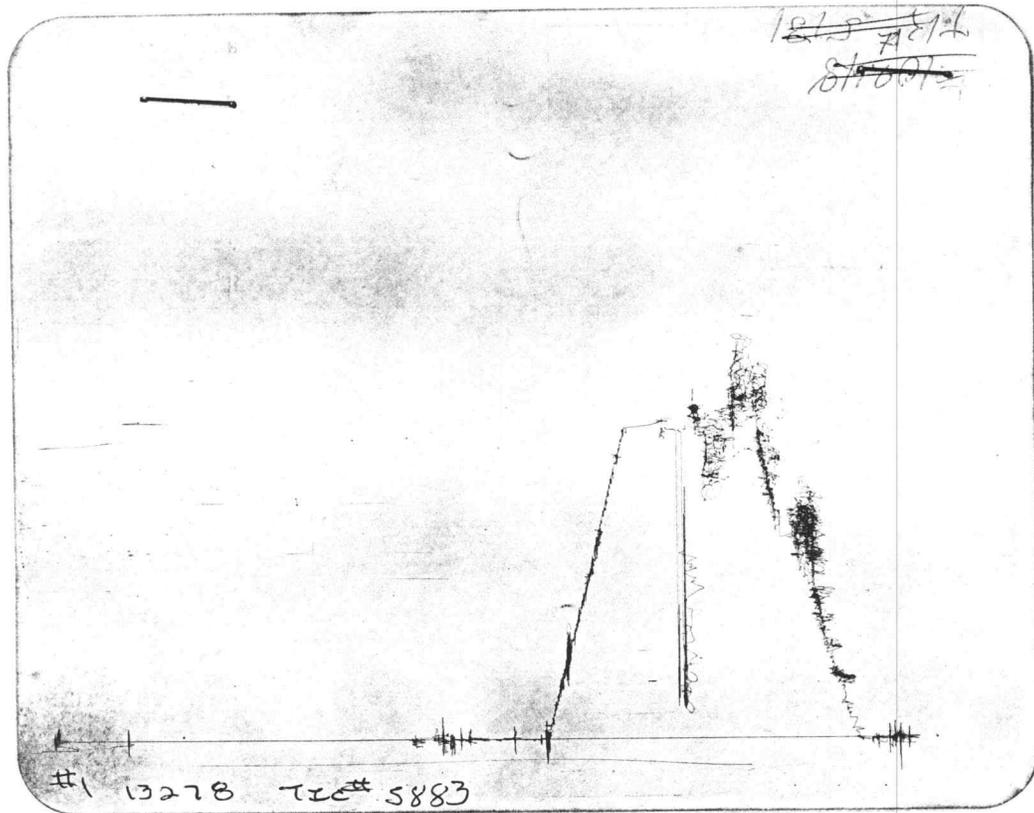
Rec. 360 Feet of MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 109 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides 6200 ppm Recovery Chlorides 6200 ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. 13278 Range 4400
(B) First Initial Flow Pressure _____ PSI @ (depth) 3707 w / Clock No. 22993
(C) First Final Flow Pressure _____ PSI AK1 Recorder No. 10248 Range 4400
(D) Initial Shut-in Pressure _____ PSI @ (depth) 3675 w / Clock No. 30410
(E) Second Initial Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure _____ PSI @ (depth) _____ w / Clock No. _____
(G) Final Shut-in Pressure _____ PSI Initial Opening 2 Final Flow _____
(H) Final Hydrostatic Mud _____ PSI Initial Shut-in _____ Final Shut-in _____

Our Representative GARY PEVOTEAUX

CHART PAGE



This is an actual photograph of recorder chart

FIELD
READING

OFFICE
READING

- (A) INITIAL HYDROSTATIC MUD
- (B) FIRST INITIAL FLOW PRESSURE
- (C) FIRST FINAL FLOW PRESSURE
- (D) INITIAL CLOSED-IN PRESSURE
- (E) SECOND INITIAL FLOW PRESSURE
- (F) SECOND FINAL FLOW PRESSURE
- (G) FINAL CLOSED-IN PRESSURE
- (H) FINAL HYDROSTATIC MUD

Test Ticket

No 5883

Well Name & No. MADDY W.O. #1 Test No. 1 Date 1-23-93
 Company HUMMON CORP. Zone Tested BASAL SAND
 Address 200 W. DOUGLAS #1020 WICHITA KS. Elevation 2415 K.B.
 Co. Rep./Geo. DAVID GOLDAK cont. EMPHASIS OIL OPER #8 Est. Ft. of Pay _____
 Location: Sec. 4 Twp. 35 Rge. 24W Co. NORTON State KS.
 No. of Copies 10? Distribution Sheet _____ Yes _____ No Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 3652 - 3710' Drill Pipe Size 4 1/2" X.H.
 Anchor Length 58' Top Choke - 1" ✓ Bottom Choke - 3/4" ✓
 Top Packer Depth 3645' Hole Size - 7 7/8" ✓ Rubber Size - 6 3/4" ✓
 Bottom Packer Depth 3652' Wt. Pipe I.D. - 2.7 Ft. Run NONE
 Total Depth 3710' Drill Collar - 2.25 Ft. Run 186'
 Mud Wt. 9.1 lb/gal. Viscosity 44 Filtrate 12.6 cc.

Tool Open @ 11:45AM. Initial Blow Strong blow, Hit bridge
hard 10 stands off bitm. 12-16' of hard fill
~~Final Blow~~ on bitm. slid tool; could not get to bitm;
Packers failed. Tried to re-set.

Recovery - Total Feet	Feet of Gas in Pipe	Flush Tool?
<u>360'</u>	<u>✓</u>	<u>No</u>
Rec. <u>360</u> Feet Of <u>Mud.</u>	%gas	%oil
Rec. _____ Feet Of _____	%gas	%oil
Rec. _____ Feet Of _____	%gas	%oil
Rec. _____ Feet Of _____	%gas	%oil
Rec. _____ Feet Of _____	%gas	%oil

BHT 109 °F Gravity N.A. °API @ ~ °F Corrected Gravity N.A. °API
 RW _____ @ _____ °F Chlorides 6200 ppm Recovery Chlorides 6200 ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. 13278 Range 4400
 (B) First Initial Flow Pressure _____ PSI @ (depth) 3707' w/Clock No. 22993
 (C) First Final Flow Pressure _____ PSI AK1 Recorder No. 10248 Range 4400
 (D) Initial Shut-In Pressure _____ PSI @ (depth) 3675' w/Clock No. 30410
 (E) Second Initial Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure _____ PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure _____ PSI Initial Opening 2 Test Misrun ✓ 400⁰⁰
 (H) Final Hydrostatic Mud _____ PSI Initial Shut-In _____ Jars _____

*Misrun
 could not
 get to bitm.
 Packers failed*

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF 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.

Final Flow _____ Safety Joint _____
 Final Shut-In _____ Straddle _____
 Circ. Sub _____
 Sampler _____
 Extra Packer _____
 Other _____

Approved By [Signature]
 Our Representative [Signature]

TOTAL PRICE \$ ✓ 400⁰⁰

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name MADDY W.O. #1 Test No. 2 Date 1/23/93
Company HUMMON CORPORATION Zone BASAL SAND
Address 200 W DOUGLAS #1020 WICHITA KS 67202 Elevation 2415
Co. Rep./Geo. DAVID GOLDAK Cont. EMPHASIS DRLG RIG #8 Est. Ft. of Pay _____
Location: Sec. 4 Twp. 3S Rge. 24W Co. NORTON State KS

Interval Tested 3642-3710 Drill Pipe Size 4.5" XH
Anchor Length 68 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3635 Drill Collar - 2.25 Ft. Run 186
Bottom Packer Depth 3642 Mud Wt. 9.2 lb/Gal.
Total Depth 3710 Viscosity 53 Filtrate 12

Tool Open @ 10:05 PM Initial Blow WEAK TO FAIR BLOW - SLID TOOL 6-7 FT TO BOTTOM-TOOL
SLIDING SLOWLY THROUGH ENTIRE 1st OPEN/SLOWLY LOSING MUD ON BACKSIDE
Final Blow NO BLOW- FLUSHED TOOL 30 MINUTES INTO 2nd OPEN/1/4" BLOW RETURN
CHARTS SHOW GOOD FLOWS & SHUT IN-NO PACKER LEAKING

Recovery - Total Feet 200 Flush Tool? _____

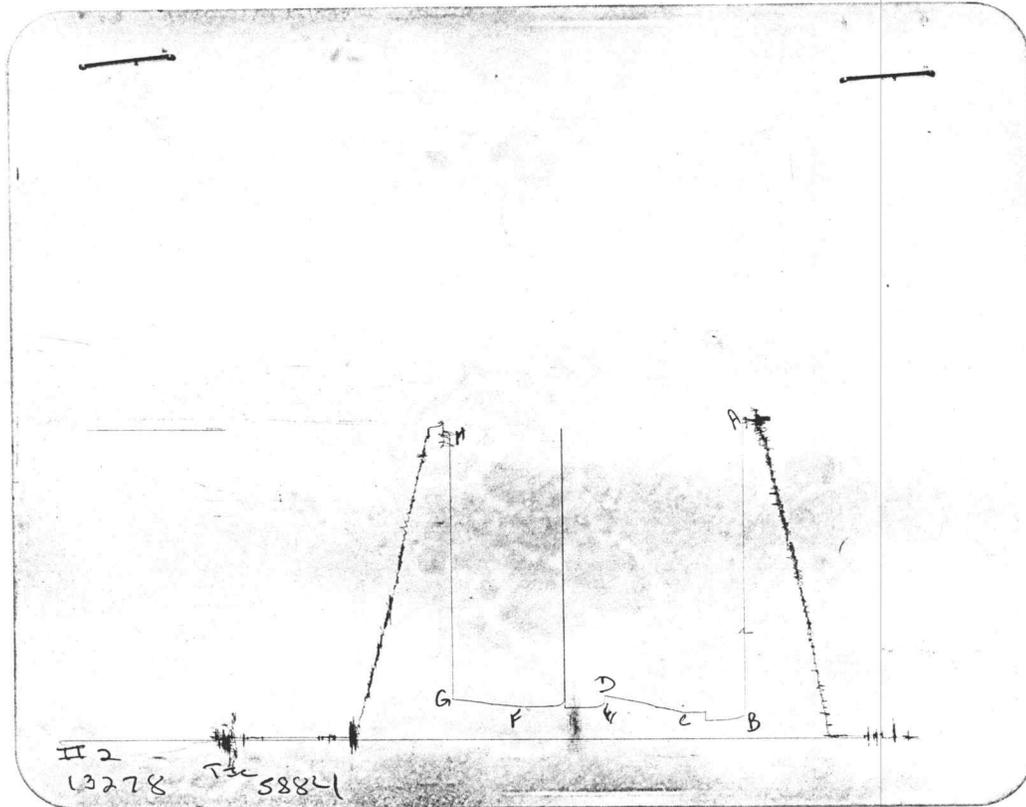
Rec. 15 Feet of WATERY MUD-16%WTR/84%MUD
Rec. 125 Feet of DRILLING MUD
Rec. 60 Feet of MUD W/ OIL SPECKS
Rec. _____ Feet of OIL SPECKS @ TOP OF TOOL
Rec. _____ Feet of _____

BHT 109 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 2.02 @ 59 °F Chlorides 8000 ppm Recovery Chlorides 7600 ppm System

(A) Initial Hydrostatic Mud 1835.6 PSI AK1 Recorder No. 13278 Range 4400
(B) First Initial Flow Pressure 60.1 PSI @ (depth) 3707 w / Clock No. 22993
(C) First Final Flow Pressure 135.7 PSI AK1 Recorder No. 10248 Range 4400
(D) Initial Shut-in Pressure 254.7 PSI @ (depth) 3675 w / Clock No. 30410
(E) Second Initial Flow Pressure 135.7 PSI AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure 141.2 PSI @ (depth) _____ w / Clock No. _____
(G) Final Shut-in Pressure 227.8 PSI Initial Opening 45 Final Flow 45
(H) Final Hydrostatic Mud 1810.2 PSI Initial Shut-in 60 Final Shut-in 60

Our Representative GARY PEVOTEAUX

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1832	1835.6
(B) FIRST INITIAL FLOW PRESSURE	59	60.1
(C) FIRST FINAL FLOW PRESSURE	136	135.7
(D) INITIAL CLOSED-IN PRESSURE	250	254.7
(E) SECOND INITIAL FLOW PRESSURE	136	135.7
(F) SECOND FINAL FLOW PRESSURE	139	141.2
(G) FINAL CLOSED-IN PRESSURE	225	227.8
(H) FINAL HYDROSTATIC MUD	1802	1810.2

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 5884

Well Name & No. MADDY W.O. #1 Test No. 2 Date 1-29-93
 Company HUMMON CORP. Zone Tested BASAL SAND.
 Address 200 W. DOUGLAS #1020 WICHITA KS. Elevation 2415 K.B.
 Co. Rep./Geo. DAVID GOLDAK cont. EMPHASIS OIL OPER. #8 Est. Ft. of Pay _____
 Location: Sec. 4 Twp. 35 Rge. 24W Co. NORTON State Ks.
 No. of Copies 10 Distribution Sheet _____ Yes _____ No Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 3642 - 3710' Drill Pipe Size 4 1/2" X.H.
 Anchor Length 68' Top Choke - 1" Bottom Choke - 3/4"
 Top Packer Depth 3635' Hole Size - 77/8" Rubber Size - 63/4"
 Bottom Packer Depth 3642' Wt. Pipe I.D. - 2.7 Ft. Run None
 Total Depth 3710' Drill Collar - 2.25 Ft. Run 186'
 Mud Wt. 9.2 lb/gal. Viscosity 53 Filtrate 12.0 cc

Tool Open @ 10:05 P.M. Initial Blow weak to fair below. Blid Tool 6-7 feet to botm. Tool sliding slowly through entire IST open, while slowly losing mud on both sides.
 Final Blow No blow - finished tool 30 mins into 2nd open - (4" blow return) create show good flows & shut-ins. (No packer leaking)

Recovery - Total Feet 200 Feet of Gas in Pipe _____ Flush Tool? yes

Rec.	Feet Of	W.M.	%gas	%oil	%water	%mud
<u>15</u>	<u>15</u>	<u>W.M.</u>		<u>16</u>	<u>84</u>	<u>mud</u>
<u>125</u>	<u>125</u>	<u>Dreg. Mud</u>				
<u>60</u>	<u>60</u>	<u>Mud @ oil specs.</u>				
		<u>oil specs @ top of tool.</u>				

BHT 109 °F Gravity N.A. °API @ 2 °F Corrected Gravity N.A. °API

RW 2.02 @ 59 °F Chlorides 8000 ppm Recovery Chlorides 7,600 ppm System

- (A) Initial Hydrostatic Mud 1832 PSI AK1 Recorder No. 13278 Range 4400
- (B) First Initial Flow Pressure 59 PSI @ (depth) 3707' w/Clock No. 22993
- (C) First Final Flow Pressure 136 PSI AK1 Recorder No. 10248 Range 4400
- (D) Initial Shut-In Pressure 250 PSI @ (depth) 3625' w/Clock No. 30410
- (E) Second Initial Flow Pressure 136 PSI AK1 Recorder No. --- Range ---
- (F) Second Final Flow Pressure 139 PSI @ (depth) --- w/Clock No. ---
- (G) Final Shut-In Pressure 225 PSI Initial Opening 45 Test 600°
- (H) Final Hydrostatic Mud 1802 PSI Initial Shut-In 60 Jars _____

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Approved By David Goldak
 Our Representative Cary Swartz

Final Flow 45 Safety Joint 50°
 Final Shut-In 60 Straddle _____
 Circ. Sub _____
 Sampler _____
 Extra Packer _____
 Other _____
 TOTAL PRICE \$ 650.00