

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name #3-21 JUDY HOAGLAND Test No. 1 Date 1/2/93
Company VESS-TRANSPACIFIC OPERATING COMPANY Zone LWR DOUGLAS
Address P O BOX 781350 WICHITA KS 67278 Elevation 1917
Co. Rep./Geo. KIM SHOEMAKER Cont. L.D. DRLG RIG #1 Est. Ft. of Pay _____
Location: Sec. 21 Twp. 32S Rge. 14W Co. BARBER State KS

Interval Tested 4112-4133
Anchor Length 21
Top Packer Depth 4107
Bottom Packer Depth 4112
Total Depth 4133

Drill Pipe Size 4.5" XH
Wt. Pipe I.D. - 2.7 Ft. Run _____
Drill Collar - 2.25 Ft. Run _____
Mud Wt. 9.3 lb/Gal.
Viscosity 42 Filtrate 22

Tool Open @ 9:20 PM Initial Blow STRONG-GAS TO SURFACE IN 8 MINUTES

Final Blow GAS TO SURFACE THROUGHOUT - SEE GAS VOLUME
REPORT

Recovery - Total Feet 480

Flush Tool? NO

Rec. 120 Feet of OIL SPECKED GAS & WTR CUT MUD-10%GAS/10%WTR/80%MUD
Rec. 60 Feet of OIL SPECKED MUD CUT WATER- 20%GAS/ 60%WTR/ 20%MUD
Rec. 300 Feet of GASSY WATER-10%GAS/90%WATER
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 118 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.14 @ 73 °F Chlorides 55000 ppm Recovery Chlorides 15000 ppm System

(A) Initial Hydrostatic Mud 1978.0 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 80.0 PSI @ (depth) 4115 w / Clock No. 27573

(C) First Final Flow Pressure 95.0 PSI AK1 Recorder No. 11058 Range 4475

(D) Initial Shut-in Pressure 1248.0 PSI @ (depth) 4130 w / Clock No. 30401

(E) Second Initial Flow Pressure 135.0 PSI AK1 Recorder No. _____ Range _____

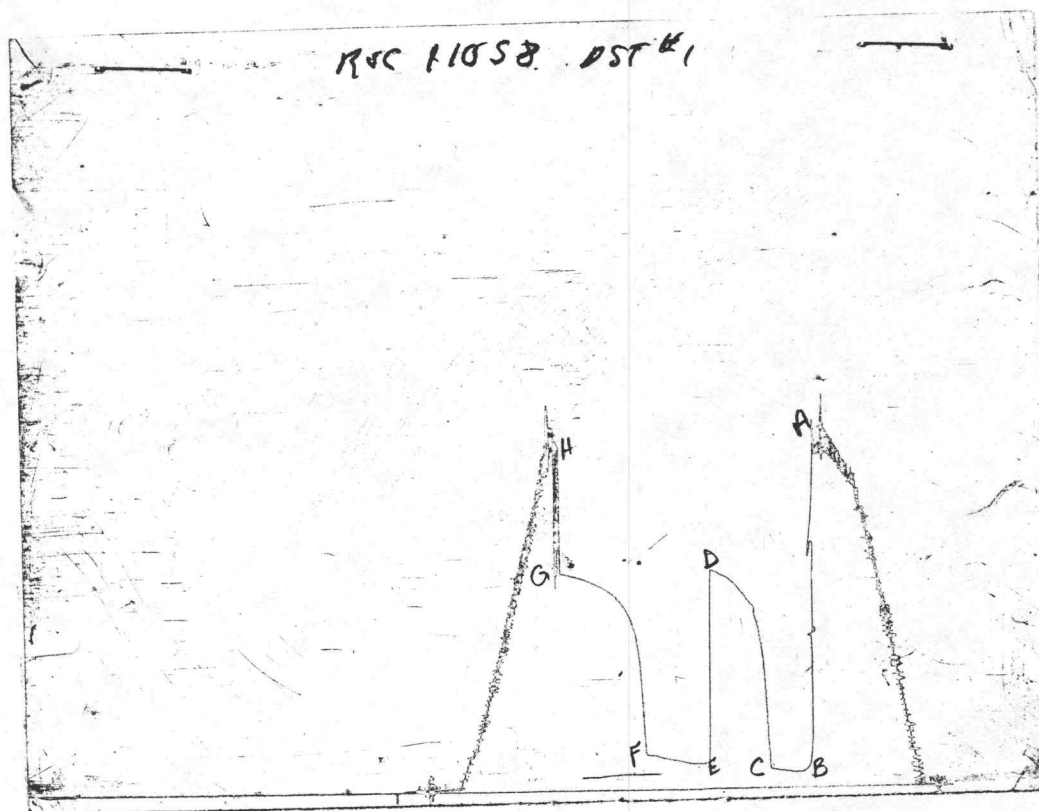
(F) Second Final Flow Pressure 185.0 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1243.0 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 1946.0 PSI Initial Shut-in 45 Final Shut-in 60

Our Representative JOHN RIEDL

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1970	1978
(B) FIRST INITIAL FLOW PRESSURE	60	80
(C) FIRST FINAL FLOW PRESSURE	81	95
(D) INITIAL CLOSED-IN PRESSURE	1254	1248
(E) SECOND INITIAL FLOW PRESSURE	105	135
(F) SECOND FINAL FLOW PRESSURE	165	185
(G) FINAL CLOSED-IN PRESSURE	1229	1243
(H) FINAL HYDROSTATIC MUD	1951	1946

GAS VOLUME REPORT

VESS-TRANSPACIFIC OPERATING COMPANY

#3-21 JUDY HOAGLAND

DST # 1

MIN	INCHES	ORIFICE	MCF/D
OF WTR			
TOOL OPEN 9:20 AM			
10	30	0.5	34.3
20	18	0.5	26.6
30	8	0.5	17.2

MIN	PSIG	ORIFICE	MCF/D
TOOL OPEN 10:35 PM			
10	8	0.25	4.76
20	2	0.25	2.37
30	2	0.25	2.37
40	2	0.25	2.37
50	2	0.25	2.37

Remarks: TOOK GAS SAMPLE / GAS DID BURN

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Drill-Stem Test Data

Well Name #3-21 JUDY HOAGLAND Test No. 2 Date 1/4/93
Company VESS-TRANSPACIFIC OPERATING COMPANY Zone MARMATON
Address P O BOX 781350 WICHITA KS 67278 Elevation 1917
Co. Rep./Geo. KIM SHOEMAKER Cont. L.D. DRLG RIG #1 Est. Ft. of Pay 4
Location: Sec. 21 Twp. 32S Rge. 14W Co. BARBER State KS

Interval Tested 4594-4620 Drill Pipe Size 4.5" XH
Anchor Length 26 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4589 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 4594 Mud Wt. 9.1 lb/Gal.
Total Depth 4620 Viscosity 40 Filtrate 17

Tool Open @ 3:30 PM Initial Blow STRONG BLOW - GAS TO SURFACE IN 5 MINUTES

Final Blow GAS TO SURFACE THROUGHOUT - SEE GAS VOLUME
REPORT

Recovery - Total Feet 40 Flush Tool? NO

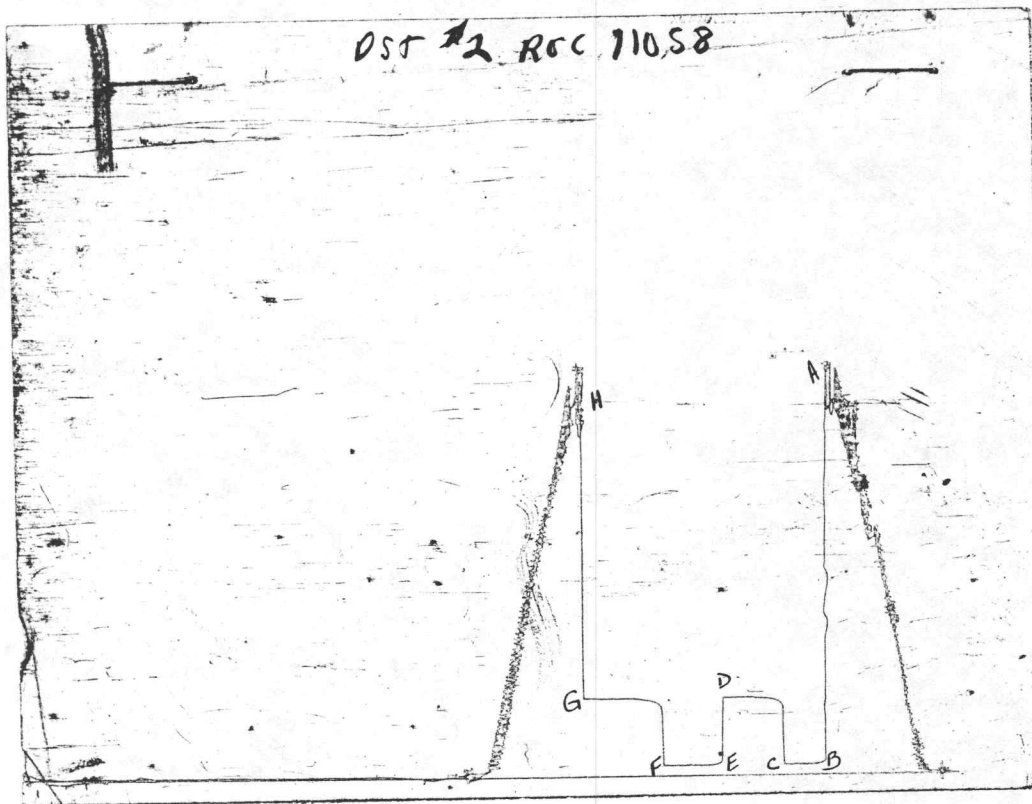
Rec. 40 Feet of GAS CUT MUD-15% GAS / 85% MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 118 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.4 @ 52 °F Chlorides 24000 ppm Recovery Chlorides 25000 ppm System

(A) Initial Hydrostatic Mud 2214.0 PSI AK1 Recorder No. 22150 Range 3925
(B) First Initial Flow Pressure 61.0 PSI @ (depth) 4597 w / Clock No. 27573
(C) First Final Flow Pressure 45.0 PSI AK1 Recorder No. 11058 Range 4475
(D) Initial Shut-in Pressure 438.0 PSI @ (depth) 4617 w / Clock No. 30401
(E) Second Initial Flow Pressure 60.0 PSI AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure 51.0 PSI @ (depth) _____ w / Clock No. _____
(G) Final Shut-in Pressure 436.0 PSI Initial Opening 30 Final Flow 45
(H) Final Hydrostatic Mud 2186.0 PSI Initial Shut-in 45 Final Shut-in 60

Our Representative JOHN RIEDL

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2190	2214
(B) FIRST INITIAL FLOW PRESSURE	29	61
(C) FIRST FINAL FLOW PRESSURE	38	45
(D) INITIAL CLOSED-IN PRESSURE	423	438
(E) SECOND INITIAL FLOW PRESSURE	40	60
(F) SECOND FINAL FLOW PRESSURE	42	51
(G) FINAL CLOSED-IN PRESSURE	423	436
(H) FINAL HYDROSTATIC MUD	2154	2186

GAS VOLUME REPORT

VESS-TRANSPACIFIC OPERATING COMPANY

#3-21 JUDY HOAGLAND

DST # 2

MIN	INCHES OF WTR	ORIFICE	MCF/D
TOOL OPEN 3:30 PM			
10	30	1	141
20	36	1	155
30	40	1	163

MIN	INCHES OF WTR	ORIFICE	MCF/D
2nd OPEN 4:45 PM			
10	34	1	151
20	44	1	171
30	50	1	183
40	50	1	183
50	52	1	186

Remarks: TOOK GAS SAMPLE / GAS DID BURN

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Drill-Stem Test Data

Well Name #3-21 JUDY HOAGLAND Test No. 3 Date 1/5/93
Company VESS-TRANSPACIFIC OPERATING COMPANY Zone MISSISSIPPI
Address P O BOX 781350 WICHITA KS 67278 Elevation 1917
Co. Rep./Geo. KIM SHOEMAKER Cont. L.D. DRLG RIG #1 Est. Ft. of Pay _____
Location: Sec. 21 Twp. 32S Rge. 14W Co. BARBER State KS

Interval Tested 4634-4667
Anchor Length 33
Top Packer Depth 4629
Bottom Packer Depth 4634
Total Depth 4667

Drill Pipe Size 4.5" XH
Wt. Pipe I.D. - 2.7 Ft. Run _____
Drill Collar - 2.25 Ft. Run _____
Mud Wt. 9.1 lb/Gal.
Viscosity 39 Filtrate 18

Tool Open @ 5:30 AM Initial Blow STRONG GAS TO SURFACE IN 4 MINUTES

Final Blow GAS TO SURFACE THROUGHOUT - SEE GAS VOLUME
REPORT

Recovery - Total Feet 150 Flush Tool? NO

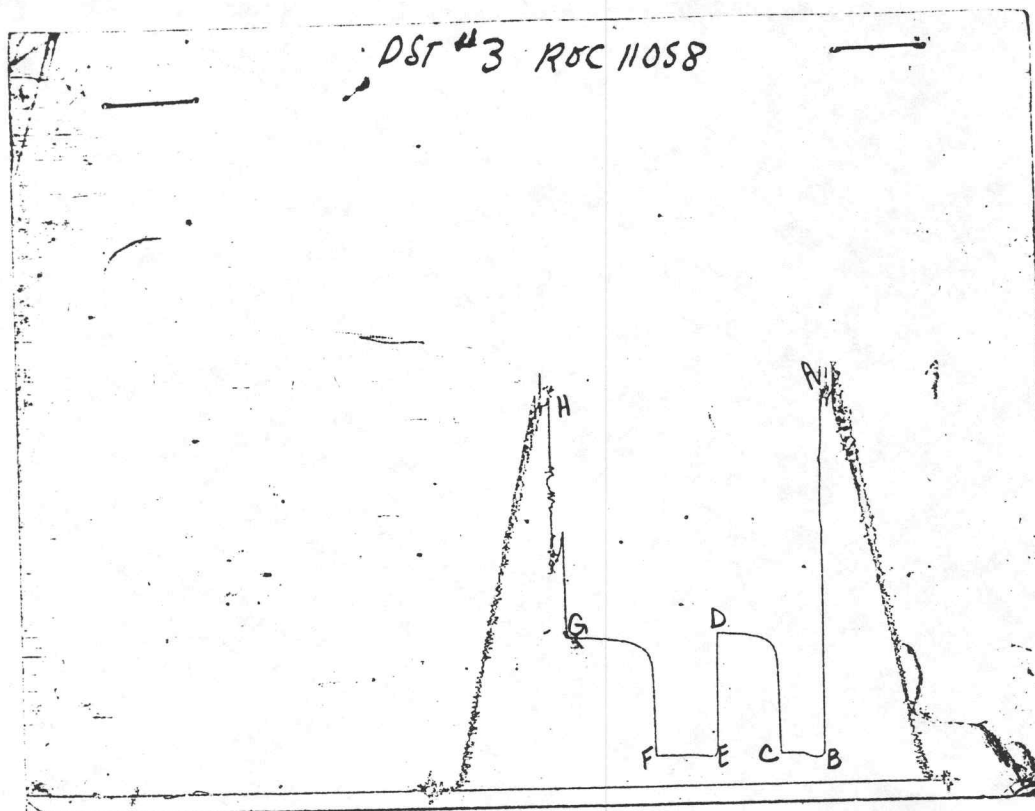
Rec. 150 Feet of GAS CUT MUD- 10% GAS / 90% WTR
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 120 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.27 @ 60 °F Chlorides 30000 ppm Recovery Chlorides 25000 ppm System

(A) Initial Hydrostatic Mud 2246.0 PSI AK1 Recorder No. 22150 Range 3925
(B) First Initial Flow Pressure 166.0 PSI @ (depth) 4637 w / Clock No. 27573
(C) First Final Flow Pressure 170.0 PSI AK1 Recorder No. 11058 Range 4475
(D) Initial Shut-in Pressure 877.0 PSI @ (depth) 4664 w / Clock No. 30401
(E) Second Initial Flow Pressure 202.0 PSI AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure 181.0 PSI @ (depth) _____ w / Clock No. _____
(G) Final Shut-in Pressure 872.0 PSI Initial Opening 30 Final Flow 45
(H) Final Hydrostatic Mud 2232.0 PSI Initial Shut-in 45 Final Shut-in 60

Our Representative JOHN RIEDL

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2216	2246
(B) FIRST INITIAL FLOW PRESSURE	122	166
(C) FIRST FINAL FLOW PRESSURE	133	170
(D) INITIAL CLOSED-IN PRESSURE	866	877
(E) SECOND INITIAL FLOW PRESSURE	137	202
(F) SECOND FINAL FLOW PRESSURE	155	181
(G) FINAL CLOSED-IN PRESSURE	861	872
(H) FINAL HYDROSTATIC MUD	2000	2232

GAS VOLUME REPORT

VESS-TRANSPACIFIC OPERATING COMPANY

#3-21 JUDY HOAGLAND

DST # 3

MIN	INCHES OF WTR	ORIFICE	MCF/D
TOOL OPEN 5:30 AM			
10	60	1	200
20	10	1	82
30	10PSI	0.75	259

MIN	PSIG	ORIFICE	MCF/D
2nd OPEN 6:45 AM			
10	10	0.75	259
20	13	0.75	303
30	13	0.75	303
40	13	0.75	303
50	13	0.75	303

Remarks: TOOK GAS SAMPLE DURING 1st FLOW / GAS DID BURN