TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name HORACEK #1 Test No. 1 Date 5/2/92

Company THOMAS C. LUTZ Zone MISSISSIPPI

Address P.O. DRAWER 940 FAYUETTEVILLE AK 72702 Elevation 2594 K.B.

Co. Rep./Geo. RON NELSON Cont. EMPHASIS RIG #7 Est. Ft. of Pay

Location: Sec. 19 Twp. 16S Rge. 25W Co. NESS State KS

Interval Tested 4539-4565

Anchor Length 26

Top Packer Depth 4539

Bottom Packer Depth 4565

Total Depth 4593

Drill Pipe Size 4.5 XH

Wt. Pipe I.D. - 2.7 Ft. Run

Drill Collar – 2.25 Ft. Run

Mud Wt. 9.5 lb/Gal.

Viscosity 60 Filtrate 8.4

Tool Open @ 7:12 AM Initial Blow WEAK-BUILDING TO STRONG-OFF BOTTOM OF BUCKET IN 25 MINUTES

Final Blow WEAK BUILDING TO STRONG-OFF BOTTOM OF BUCKET IN 28 MINUTES

Recovery - Total Feet 298 Flush Tool? NO

Rec. 330 Feet of GAS IN PIPE

Rec. 112 Feet of CLEAN GASSY OIL-20%GAS/80%OIL

Rec. 62 Feet of OIL CUT GASSY MUD-10%GAS/40%OIL/50%MUD

Rec. 124 Feet of SLTLY OIL CUT MUDDY WATER-3%OIL/77%WATER/20%MUD

Rec. Feet of

BHT 121 °F Gravity °API @ °F Corrected Gravity 36 °API

RW 0.04 @ 90 °F Chlorides 58000 ppm Recovery Chlorides 2000 ppm System

(A) Initial Hydrostatic Mud 2492.3 PSI AK1 Recorder No. 13849 Range 4375

(B) First Initial Flow Pressure 80.1 PSI @ (depth) 4543 w / Clock No. 31152

(C) First Final Flow Pressure 115.6 PSI AK1 Recorder No. 7437 Range 4200

(D) Initial Shut-in Pressure 1114.5 PSI @ (depth) 4561 w / Clock No. 26199

(E) Second Initial Flow Pressure 135.2 PSI AK1 Recorder No. 13754 Range 4200

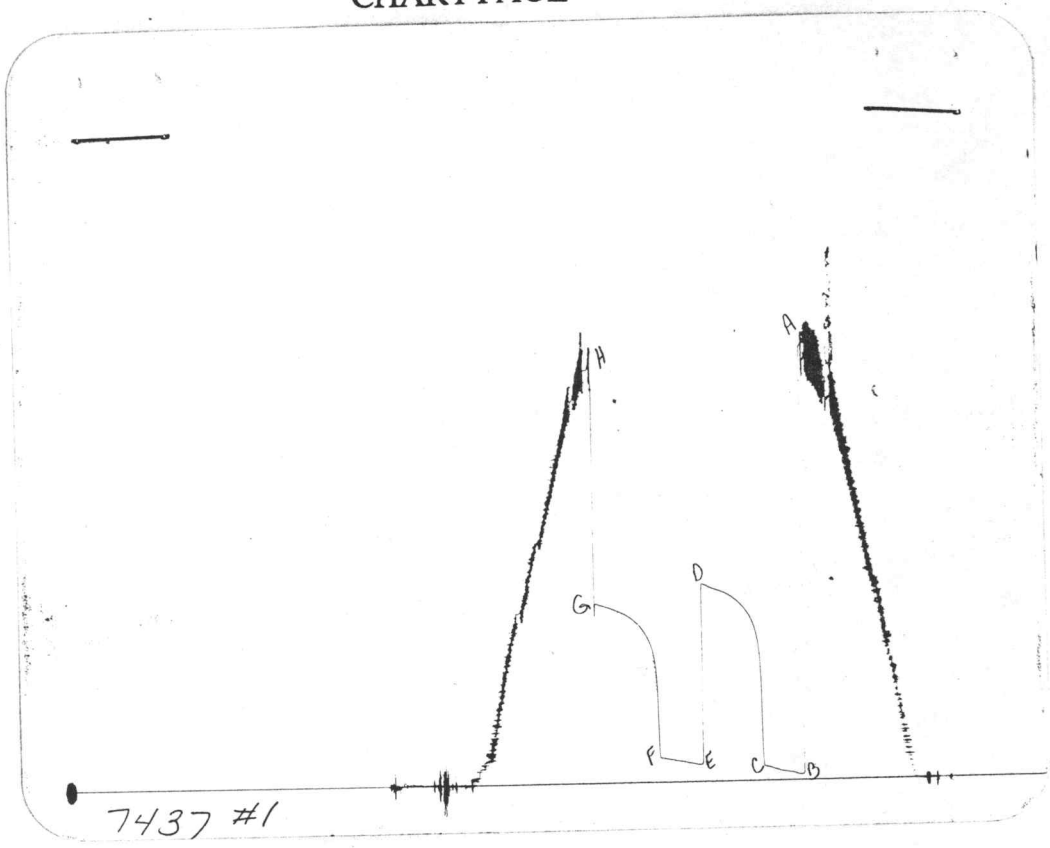
(F) Second Final Flow Pressure 160.2 PSI @ (depth) 4588 w / Clock No. 8179

(G) Final Shut-in Pressure 1030.4 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2370.8 PSI Initial Shut-in 45 Final Shut-in 45

Our Representative DAN BANGLE

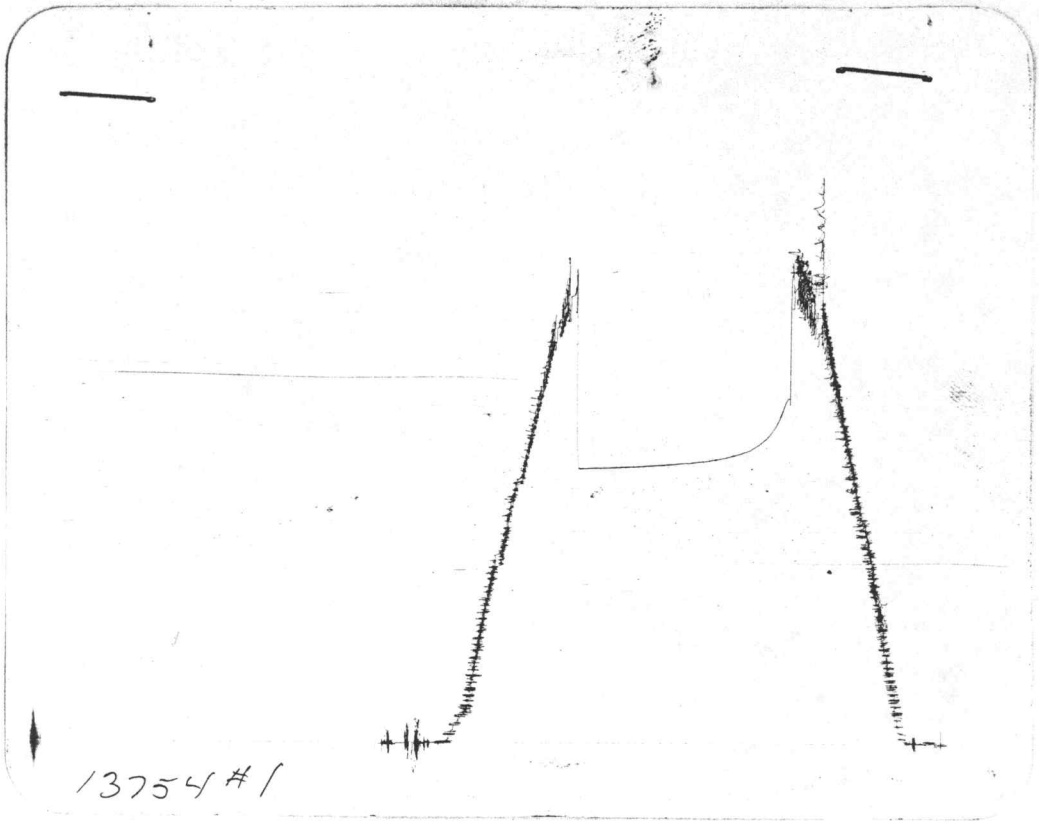
CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2488	2492.3
(B) FIRST INITIAL FLOW PRESSURE	77	80.1
(C) FIRST FINAL FLOW PRESSURE	111	115.6
(D) INITIAL CLOSED-IN PRESSURE	1106	1114.5
(E) SECOND INITIAL FLOW PRESSURE	133	135.2
(F) SECOND FINAL FLOW PRESSURE	155	160.2
(G) FINAL CLOSED-IN PRESSURE	1028	1030.4
(H) FINAL HYDROSTATIC MUD	2367	2370.8

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		

CALCULATED RECOVERY ANALYSIS DRILL PIPE

DST # 1 TICKET 4763

SAMPLE	TOTAL	GAS		OIL		WATER		MUD	
#	FEET	%	FEET	%	FEET	%	FEET	%	FEET
1	112	20	22.4	80	89.6	0	0	0	0
2	62	10	6.2	40	24.8	0	0	50	31
3	124	0	0	3	3.72	77	95.48	20	24.8
4			0		0		0		0
5			0		0		0		0
TOTAL	298	9.5973154	28.6	39.6	118.12	32.040268	95.48	18.7	55.8

			HRS	BBL/DAY
BBL OIL=	1.6796664	*	1	40.312
BBL WATER=	1.3577256	*		32.585
BBL MUD=	0.793476			
BBL GAS	0.406692