TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name HONAS #1 Test No. 1 Date 10/7/91

Company HINKLE OIL CO Zone Tested MARMATON

Address 1016 UNION CNTR BLDG WICHITA KS 67202 Elevation 2230 K.B.

Co. Rep./Geo. ORVIE HOWELL Cont. ABERCROMBIE DRLG #4 Est. Ft. of Pay

Location: Sec. 21 Twp. 14S Rge. 22W Co. TREGO State KS

Interval Tested 3978-4000

Anchor Length 22

Top Packer Depth 3973

Bottom Packer Depth 3978

Total Depth 4000

Drill Pipe Size 4.5 XH

Wt. Pipe I.D. - 2.7 Ft. Run 632

Drill Collar — 2.25 Ft. Run

Mud Wt. 9 lb / gal. Viscosity 48 Filtrate 9.6

Tool Open @ 8:04 AM Initial Blow WEAK - BUILDING TO 7" FAIR BLOW

Final Blow WEAK-BUILDING TO 3"

Recovery — Total Feet 465 Flush Tool? NO

Rec. 10 Feet of CLEAN OIL

Rec. 60 Feet of OIL CUT MUDDY WTR-10%OIL/50%WTR/40%MUD

Rec. 395 Feet of SLTLY OIL CUT MUDDY WTR-2%OL/80%WTR/18%MUD

Rec. Feet of

Rec. Feet of

BHT 111 °F Gravity °API @ °F Corrected Gravity 34 °API

RW 0.22 @ 86.6 °F Chlorides 30000 ppm Recovery Chlorides 5000 ppm System

(A) Initial Hydrostatic Mud 1980.2 PSI Ak1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 37.3 PSI @ (depth) 3982 w/Clock No. 26191

(C) First Final Flow Pressure 115.6 PSI AK1 Recorder No. 13849 Range 4375

(D) Initial Shut-in Pressure 1068.7 PSI @ (depth 3996 w/Clock No. 26199

(E) Second Initial Flow Pressure 171.2 PSI AK1 Recorder No. Range

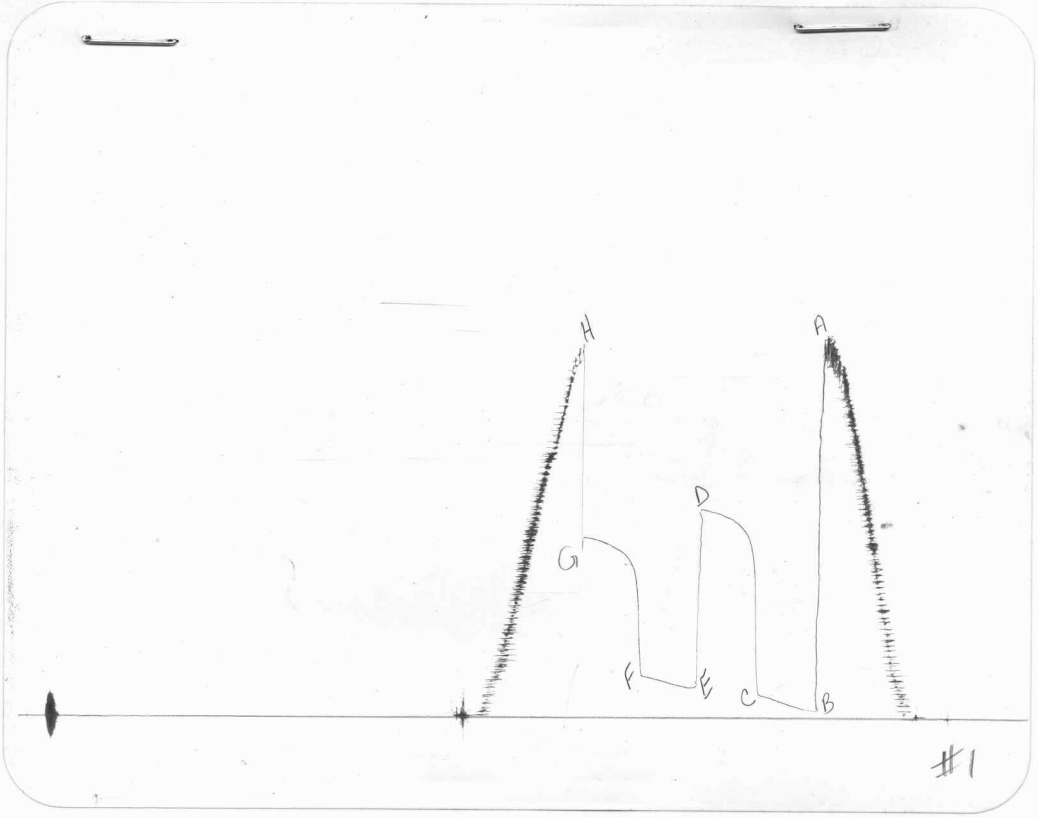
(F) Second Final Flow Pressure 216.9 PSI @ (depth) w/Clock No.

(G) Final Shut-in Pressure 911.3 PSI Initial Opening 45 Final Flow 45

(H) Final Hydrostatic Mud 1874.6 PSI Initial Shut-in 45 Final Shut-in 45

Our Representativve DAN BANGLE TOTAL PRICE $ 550

Printcraft Printers - Hays, KS



This is an actual photograph of recorder chart

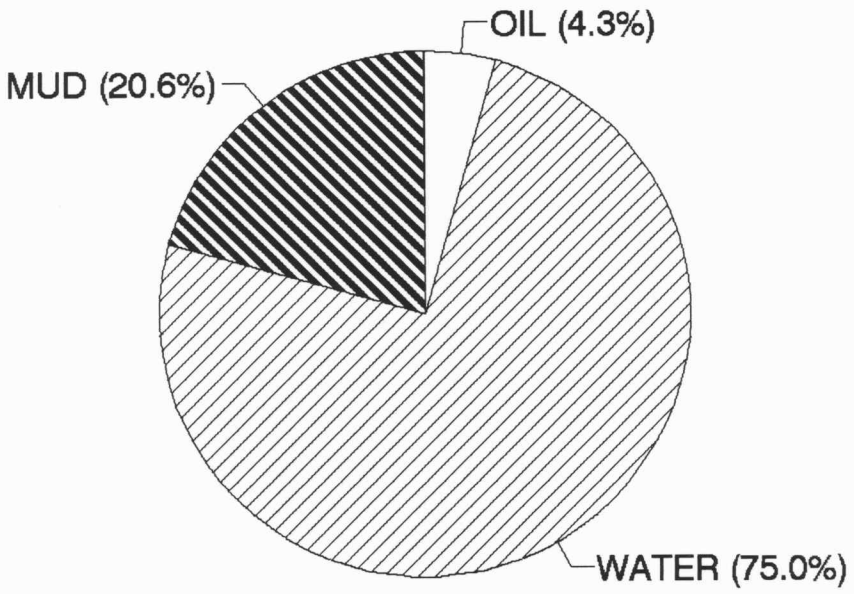
POINT	PRESSURE	
	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1971	1980.2
(B) FIRST INITIAL FLOW PRESSURE	33	37.3
(C) FIRST FINAL FLOW PRESSURE	111	115.6
(D) INITIAL CLOSED-IN PRESSURE	1061	1068.7
(E) SECOND INITIAL FLOW PRESSURE	166	171.2
(F) SECOND FINAL FLOW PRESSURE	211	216.9
(G) FINAL CLOSED-IN PRESSURE	907	911.3
(H) FINAL HYDROSTATIC MUD	1873	1874.6

CALCULATED RECOVERY ANALYSIS WEIGHT PIPE

DST # 1 TICKET # 4467

SAMPLE #	TOTAL FEET	GAS %	GAS FEET	OIL %	OIL FEET	WATER %	WATER FEET	MUD %	MUD FEET
1	10	0	0	100	10	0	0	0	0
2	60	0	0	10	6	50	30	40	24
3	395	0	0	1	3.95	80	316	18	71.1
4			0		0		0		0
5			0		0		0		0
TOTAL	465	0	0	4.29032	19.95	74.4086	346	20.4516	95.1

			HRS OPEN	BBL/DAY
BBL OIL=	0.13965	*	1.5	2.2344
BBL WATER	2.422	*		38.752
BBL MUD=	0.6657			



TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name HONAS #1 Test No. 2 Date 10/7/91
Company HINKLE OIL CO Zone Tested CHEROKEE
Address 1016 UNION CNTR BLDG WICHITA KS 67202 Elevation 2230 K.B.
Co. Rep./Geo. ORVIE HOWELL Cont. ABERCROMBIE DRLG #4 Est. Ft. of Pay
Location: Sec. 21 Twp. 14S Rge. 22W Co. TREGO State KS

Interval Tested 4067-4100
Anchor Length 33
Top Packer Depth 4062
Bottom Packer Depth 4067
Total Depth 4100

Drill Pipe Size 4.5 XH
Wt. Pipe I.D. - 2.7 Ft. Run 632
Drill Collar — 2.25 Ft. Run

Mud Wt. 9 lb / gal. Viscosity 48 Filtrate 7.2

Tool Open @ 10:50 PM Initial Blow STRONG-OFF BOTTOM OF BUCKET IN 1 MINUTE

Final Blow STRONG-OFF BOTTOM OF BUCKET IN 4 MINUTES

Recovery — Total Feet 2418 Flush Tool? NO

Rec. 15 Feet of CLEAN OIL

Rec. 1054 Feet of OIL CUT SALT WTR-10%OIL/90%WTR

Rec. 310 Feet of SLTLY OIL CUT SALT WTR-3%OIL/97%WTR

Rec. 1039 Feet of SALT WATER

Rec. Feet of

BHT 111 °F Gravity °API @ °F Corrected Gravity 32 °API

RW 0.28 @ 77.5°F Chlorides 24000 ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 2033.1 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 280.4 PSI @ (depth) 4071 w/Clock No. 26191

(C) First Final Flow Pressure 855.6 PSI AK1 Recorder No. 13849 Range 4375

(D) Initial Shut-in Pressure 1088.9 PSI @ (depth 4096 w/Clock No. 26199

(E) Second Initial Flow Pressure 913.6 PSI AK1 Recorder No. Range

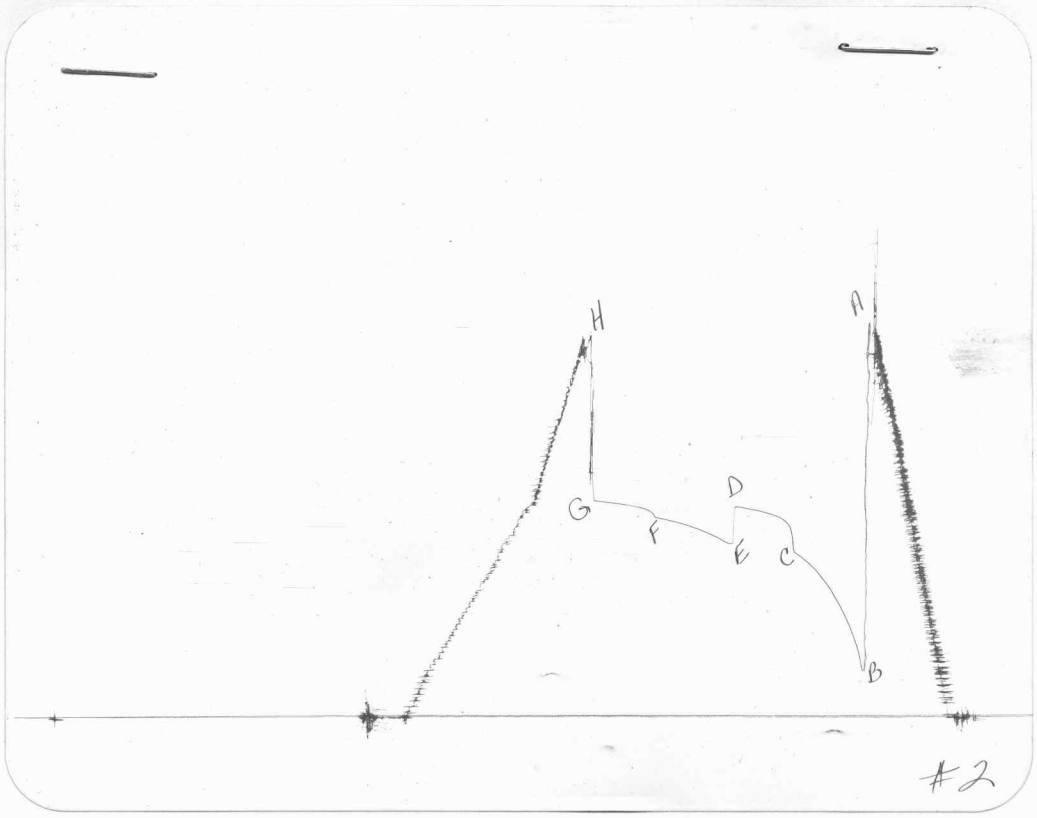
(F) Second Final Flow Pressure 1033.4 PSI @ (depth) w/Clock No.

(G) Final Shut-in Pressure 1114.8 PSI Initial Opening 60 Final Flow 60

(H) Final Hydrostatic Mud 1955.4 PSI Initial Shut-in 45 Final Shut-in 45

Our Representativve DAN BANGLE TOTAL PRICE $ 550

Printcraft Printers - Hays, KS



This is an actual photograph of recorder chart

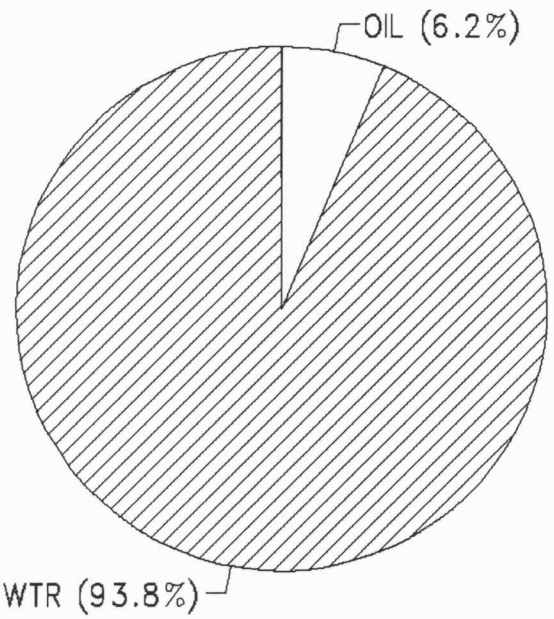
POINT	PRESSURE FIELD READING	PRESSURE OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2026	2033.1
(B) FIRST INITIAL FLOW PRESSURE	266	280.4
(C) FIRST FINAL FLOW PRESSURE	852	855.6
(D) INITIAL CLOSED-IN PRESSURE	1084	1088.9
(E) SECOND INITIAL FLOW PRESSURE	907	913.6
(F) SECOND FINAL FLOW PRESSURE	1028	1033.4
(G) FINAL CLOSED-IN PRESSURE	1106	1114.8
(H) FINAL HYDROSTATIC MUD	1950	1955.4

CALCULATED RECOVERY ANALYSIS

DST # 2 TICKET # 4468

SAMPLE		TOTAL	GAS		OIL		WATER		MUD
	#	FEET	%	FEET	%	FEET	%	FEET	%	FEET
DRILL	1	15	0	0	100	15	0	0	0	0
PIPE	2	1054	0	0	10	105.4	90	948.6	0	0
	3	310	0	0	3	9.3	97	300.7	0	0
	4	407	0	0	0	0	100	407	0	0
	5			0		0		0		0
	6			0		0		0		0
WEIGHT	1	632	0	0	0	0	100	632	0	0
PIPE	2			0		0		0		0
	3			0		0		0		0
	4			0		0		0		0
DRILL	1			0		0		0		0
COLLAR	2			0		0		0		0
	3			0		0		0		0
	4			0		0		0		0
	5			0		0		0		0
TOTAL		2418		0		129.7		2288.3		0

		HRS OPEN	BBL/DAY
BBL OIL= 1.844334	*	2	22.132
BBL WATER27.97659	*		335.719
BBL MUD= 0			
BBL GAS = 0			



TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name HONAS #1 Test No. 3 Date 10/8/91
Company HINKLE OIL CO Zone Tested CHEROKEE
Address 1016 UNION CNTR BLDG WICHITA KS 67202 Elevation 2230 K.B.
Co. Rep./Geo. ORVIE HOWELL Cont. ABERCROMBIE DRLG #4 Est. Ft. of Pay
Location: Sec. 21 Twp. 14S Rge. 22W Co. TREGO State KS

Interval Tested 4105-4150
Anchor Length 45
Top Packer Depth 4100
Bottom Packer Depth 4105
Total Depth 4150

Drill Pipe Size 4.5 XH
Wt. Pipe I.D. - 2.7 Ft. Run 632
Drill Collar — 2.25 Ft. Run

Mud Wt. 9 lb / gal. Viscosity 50 Filtrate 6.8

Tool Open @ 2:43 PM Initial Blow STRONG-OFF BOTTOM OF BUCKET IN 4 MINUTES

Final Blow STRONG-OFF BOTTOM OF BUCKET IN 10 MINUTES

Recovery — Total Feet 1365 Flush Tool? NO

Rec. 1365 Feet of SALT WATER

Rec. Feet of

Rec. Feet of

Rec. Feet of

Rec. Feet of

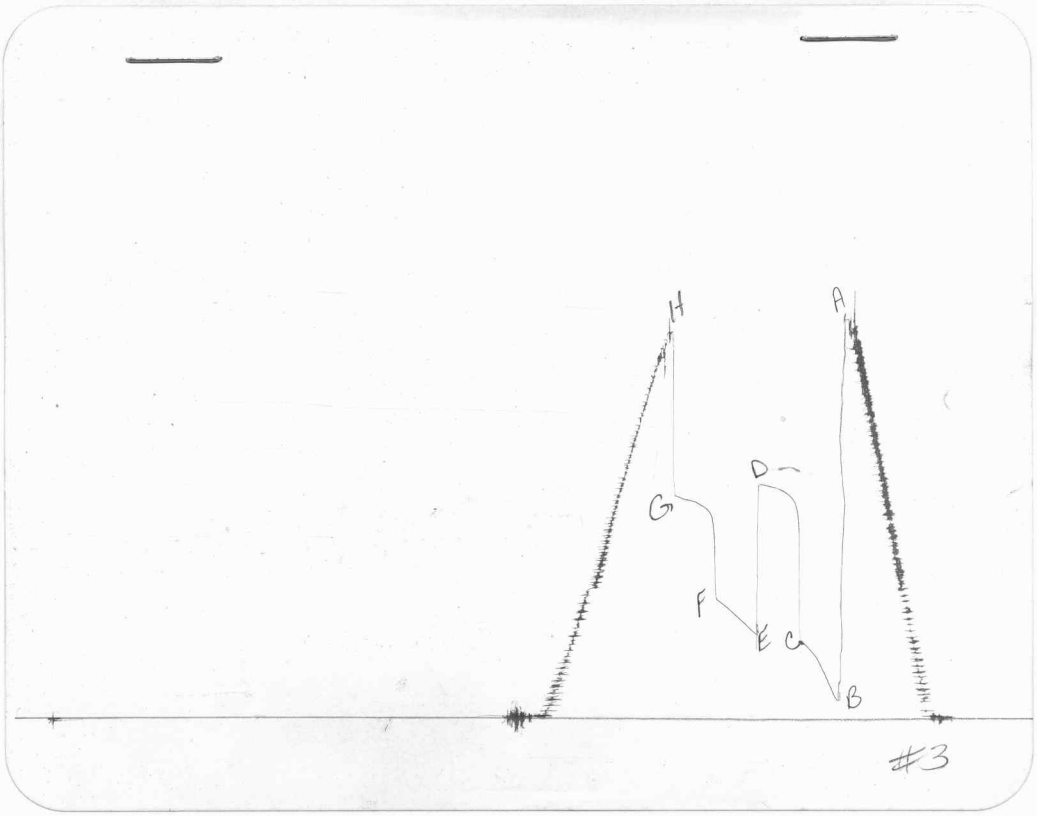
BHT 122 °F Gravity °API @ °F Corrected Gravity °API

RW 0.23 @ 82 °F Chlorides 27000 ppm Recovery Chlorides 5000 ppm System

(A) Initial Hydrostatic Mud	2169.8 PSI	AK1 Recorder No.	13754	Range	4000
(B) First Initial Flow Pressure	73.5 PSI	@ (depth)	4109	w/Clock No.	14389
(C) First Final Flow Pressure	377.8 PSI	AK1 Recorder No.	13849	Range	4375
(D) Initial Shut-in Pressure	1172.6 PSI	@ (depth	4146	w/Clock No.	26199
(E) Second Initial Flow Pressure	450.1 PSI	AK1 Recorder No.		Range	
(F) Second Final Flow Pressure	583.4 PSI	@ (depth)		w/Clock No.	
(G) Final Shut-in Pressure	1121.4 PSI	Initial Opening	30	Final Flow	30
(H) Final Hydrostatic Mud	2088.7 PSI	Initial Shut-in	30	Final Shut-in	30

Our Representativve DAN BANGLE TOTAL PRICE $ 550

Printcraft Printers - Hays, KS



This is an actual photograph of recorder chart

POINT	PRESSURE FIELD READING	PRESSURE OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2147	2169.8
(B) FIRST INITIAL FLOW PRESSURE	66	73.5
(C) FIRST FINAL FLOW PRESSURE	366	377.8
(D) INITIAL CLOSED-IN PRESSURE	1161	1172.6
(E) SECOND INITIAL FLOW PRESSURE	422	450.1
(F) SECOND FINAL FLOW PRESSURE	577	583.4
(G) FINAL CLOSED-IN PRESSURE	1117	1121.4
(H) FINAL HYDROSTATIC MUD	2081	2088.7