



TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name NICHOLSON #7 Test No. 1 Date 10/2/94
Company RANEY OIL CO. Zone MARM/ARB
Address 3425 TAMOSHANTER, LAWRENCE, KS. 66047 Elevation 2258
Co. Rep./Geo. ROGER WELTY Cont. EMPHASIS #5 Est. Ft. of Pay _____
Location: Sec. 20 Twp. 12W Rge. 20W Co. ELLIS State KS

Interval Tested	<u>3858-3935</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>77</u>	Wt. Pipe I.D. - 2.7 Ft. Run	<u>189</u>
Top Packer Depth	<u>3858</u>	Drill Collar - 2.25 Ft. Run	_____
Bottom Packer Depth	<u>3935</u>	Mud Wt.	<u>9.5</u> lb/Gal.
Total Depth	<u>3975</u>	Viscosity	<u>52</u>
		Filtrate	<u>10</u>

Tool Open @ 1:23 P.M. Initial Blow WEAK-BUILDING TO 6" FAIR BLOW

Final Blow WEAK-BUILDING TO 3" FAIR BLOW

Recovery - Total Feet 180 Flush Tool? NO

Rec. <u>60</u>	Feet of	<u>GAS IN PIPE</u>
Rec. <u>30</u>	Feet of	<u>CLEAN GASSY OIL 10%GAS/90%OIL</u>
Rec. <u>30</u>	Feet of	<u>OIL CUT GASSY MUD 10%GAS/10%OIL/10%WATER/70%MUD</u>
Rec. <u>120</u>	Feet of	<u>WATER 100%WATER</u>
Rec. _____	Feet of	_____

BHT 120 °F Gravity _____ °API @ _____ °F Corrected Gravity 36 °API
RW 0.19 @ 73 °F Chlorides 38000 ppm Recovery Chlorides 6000 ppm System

(A) Initial Hydrostatic Mud 2219.6 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 50.1 PSI @ (depth) 3862 w / Clock No. 27501

(C) First Final Flow Pressure 93.5 PSI AK1 Recorder No. 13849 Range 4375

(D) Initial Shut-in Pressure 695.6 PSI @ (depth) 3931' w / Clock No. 25810

(E) Second Initial Flow Pressure 110.2 PSI AK1 Recorder No. 7437 Range 4200

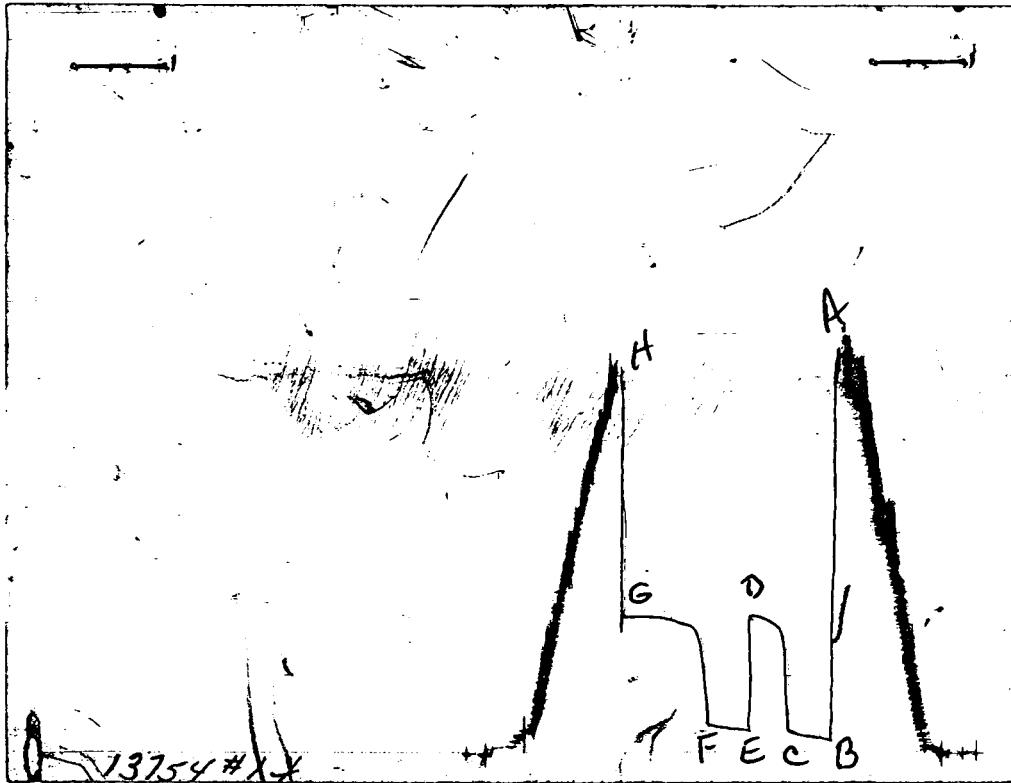
(F) Second Final Flow Pressure 146.6 PSI @ (depth) 3971 w / Clock No. 8376

(G) Final Shut-in Pressure 700.5 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2151.8 PSI Initial Shut-in 30 Final Shut-in 60

Our Representative DAN BANGLE

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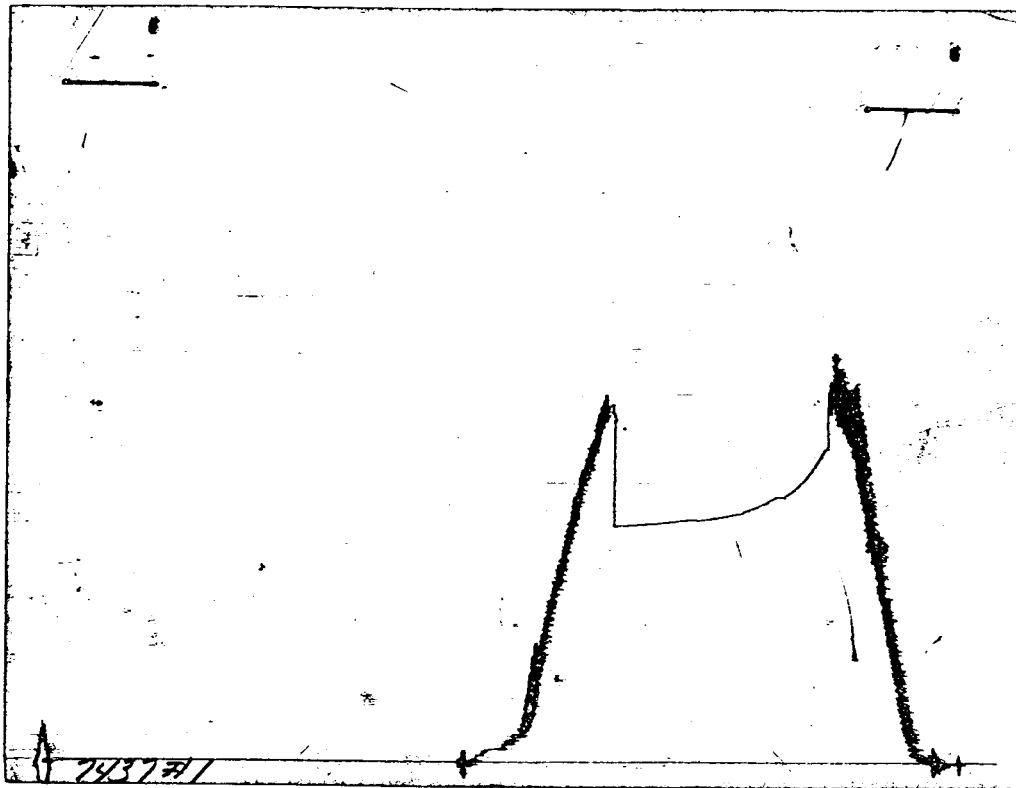


FIELD
READING

OFFICE
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(A) INITIAL HYDROSTATIC MUD	2218	2219.6
(B) FIRST INITIAL FLOW PRESSURE	68	50.1
(C) FIRST FINAL FLOW PRESSURE	98	93.5
(D) INITIAL CLOSED-IN PRESSURE	699	695.6
(E) SECOND INITIAL FLOW PRESSURE	108	110.2
(F) SECOND FINAL FLOW PRESSURE	147	146.6
(G) FINAL CLOSED-IN PRESSURE	689	700.5
(H) FINAL HYDROSTATIC MUD	2168	2151.8

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FIELD
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- (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

WEIGHT PIPE

DST # 1 *Nicholson #7* TICKET # 7628

SAMPLE #	TOTAL FEET	GAS %	FEET	OIL %	FEET	WATER %	FEET	MUD %	FEET
1	60	100	60		0	0	0	0	0
2	30	10	3	90	27		0		0
3	30	10	3	10	3	10	3	70	21
4	120		0		0	100	120		0
5			0		0		0		0
TOTAL	240	27.5	66	12.5	30	51.25	123	8.75	21

		HRS OPEN	BBL/DAY
BBL OIL=	0.21	*	1
BBL WATER=	0.861	*	20.664
BBL MUD=	0.147		
BBL GAS=	0.462		

