

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601



00624844

Drill-Stem Test Data

Well Name BARNES #1-31 Test No. 1 Date 12/1/91
Company LEEDE OIL & GAS Zone Tested MORROW
Address 2100 PLAZA TWR-6400 FIDDLERS CRCL ENGLEWOOD Elevation 3932 K.B.
Co. Rep./Geo. JOHN LEEDE Cont. MURFIN #24 Est. Ft. of Pay _____
Location: Sec. 31 Twp. 17S Rge. 41W Co. KIOWA State CO

Interval Tested 5044-5154
Anchor Length 110
Top Packer Depth 5037
Bottom Packer Depth 5044
Total Depth 5154

Drill Pipe Size 4.5 XH
Wt. Pipe I.D. - 2.7 Ft. Run _____
Drill Collar - 2.25 Ft. Run 547

Mud Wt. 9.2 lb / gal. Viscosity 50 Filtrate 8.8

Tool Open @ 9:00 AM Initial Blow STRONG BLOW OFF BOTTOM OF BUCKET IN 3 MINUTES
ISI: BLED THROUGH 2"-NO BLOW BACK ON SHUT IN
Final Blow STRONG BLOW-OFF BOTTOM OF BUCKET 5 MINUTES
FSI: BLED THROUGH 2"-NO BLOW BACK ON SHUT IN

Recovery — Total Feet 2064 Flush Tool? NO

Rec. 190 Feet of DRILLING MUD

Rec. 60 Feet of WATER CUT MUD-50%WTR/50%MUD

Rec. 1804 Feet of SALT WATER

Rec. _____ Feet of _____

Rec. 140 Feet of _____

BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 9000 ppm System

(A) Initial Hydrostatic Mud 2488.6 PSI Ak1 Recorder No. 13851 Range 4425

(B) First Initial Flow Pressure 292.2 PSI @ (depth) 5050 w/Clock No. 27585

(C) First Final Flow Pressure 318.8 PSI AK1 Recorder No. 13850 Range 4325

(D) Initial Shut-in Pressure 1022 PSI @ (depth) 5151 w/Clock No. 25813

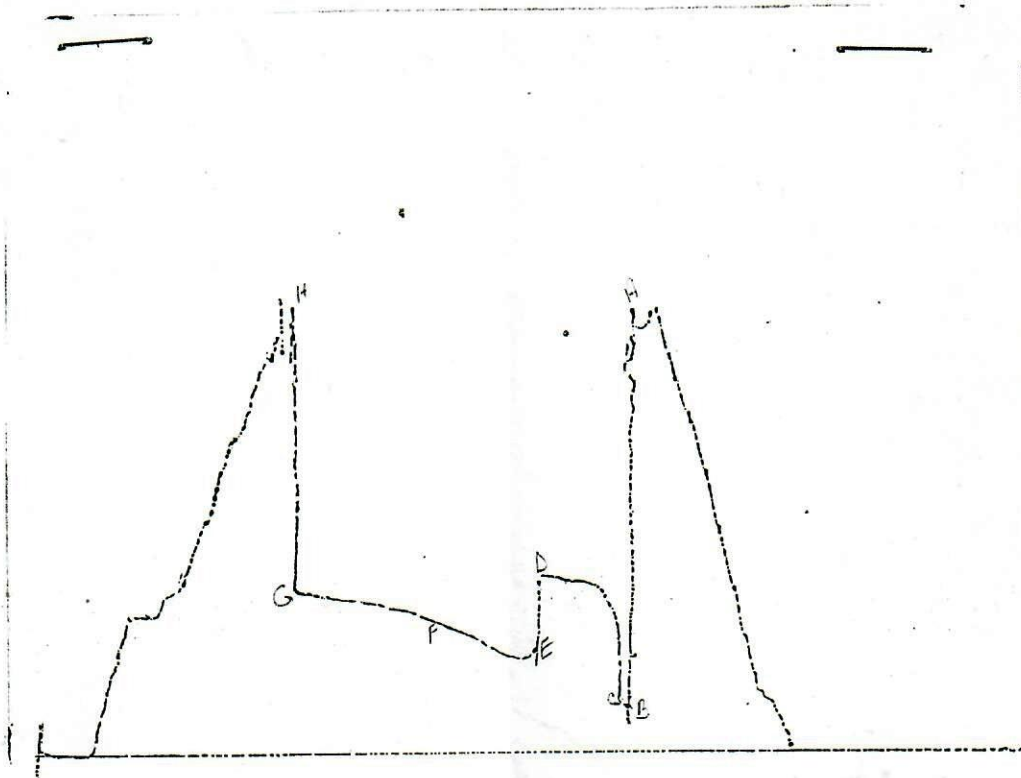
(E) Second Initial Flow Pressure 552.3 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 711.8 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-in Pressure 925.7 PSI Initial Opening 10 Final Flow 60

(H) Final Hydrostatic Mud 2410.7 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative LEWAYNE TRESNER TOTAL PRICE \$ 1350



POINT This is an actual photograph of recorder chart PRESSURE

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2475	2488.6
(B) FIRST INITIAL FLOW PRESSURE	277	292.2
(C) FIRST FINAL FLOW PRESSURE	322	318.8
(D) INITIAL CLOSED-IN PRESSURE	1024	1022
(E) SECOND INITIAL FLOW PRESSURE		552.3
(F) SECOND FINAL FLOW PRESSURE		711.8
(G) FINAL CLOSED-IN PRESSURE		925.7
(H) FINAL HYDROSTATIC MUD	2408	2410.7

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Test Ticket

No 4716

Well Name & No. <u>BARNES #1-31</u>	Test No. <u>#1</u>	Date <u>12-1-91</u>
Company <u>LEEDE OIL & GAS</u>	Zone Tested <u>MCCORMICK</u>	
Address <u>2100 FLORA TOWER 1, 6400 FERRIS GREEN LAKE, ENGLAND</u>	Elevation <u>3932 (KB)</u>	
Co. Rep./Geo. <u>JOHN LEEDE</u>	Cont. <u>MORRIS H24</u>	Est. Ft. of Pay
Location: Sec. <u>31</u>	Twp. <u>17</u>	Rge. <u>41N</u> Co. <u>KENNA</u> State <u>KOLO</u>
No. of Copies <u>15</u>	Distribution Sheet <u>X</u>	Yes <u>0</u> No <u>0</u> Turnkey <u>0</u> Yes <u>X</u> No <u>0</u> Evaluation

Interval Tested <u>5044 - 5154</u>	Drill Pipe Size <u>4 1/2" x HOSE</u>
Anchor Length <u>110</u>	Top Choke — 1" Bottom Choke — 3/4"
Top Packer Depth <u>5034</u>	Hole Size — 7 7/8" Rubber Size — 6 3/4"
Bottom Packer Depth <u>5044</u>	Wt. Pipe I.D. — 2.7 Ft. Run
Total Depth <u>5154</u>	Drill Collar — 2.25 Ft. Run <u>547'</u>
Mud Wt. <u>2.2</u> lb/gal.	Viscosity <u>50</u> Filtrate <u>8.8</u>

Tool Open @ 9:00 AM Initial Blow STRONG BLOW, OFF BOTTOM OF BUCKET (3 MIN)
ISE - BLEED THROUGH 2", NO BLOW BACK ON SHUT IN.

Final Blow STRONG BLOW, OFF BOTTOM OF BUCKET (5 MIN)
FSI - BLEED THROUGH 2" NO BLOW BACK ON SHUT IN.

Recovery — Total Feet 2064 Feet of Gas in Pipe Flush Tool? NO

Rec. <u>190</u>	Feet Of	<u>DRILL MUD</u>	%gas	%oil	%water	<u>100</u> %mud
Rec. <u>60</u>	Feet Of	<u>WATER</u>	%gas	%oil	<u>50</u> %water	<u>50</u> %mud
Rec. <u>1804</u>	Feet Of	<u>SALT WATER</u>	%gas	%oil	<u>100</u> %water	%mud
Rec. _____	Feet Of		%gas	%oil	%water	%mud
Rec. _____	Feet Of		%gas	%oil	%water	%mud

BHT 140 °F Gravity °API @ °F Corrected Gravity °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 9000 ppm System

(A) Initial Hydrostatic Mud <u>2475</u>	PSI	AK1 Recorder No. <u>13851</u>	Range <u>4425</u>
(B) First Initial Flow Pressure <u>277</u>	PSI	@ (depth) <u>5050</u>	w/Clock No. <u>27585</u>
(C) First Final Flow Pressure <u>322</u>	PSI	AK1 Recorder No. <u>13850</u>	Range <u>4325</u>
(D) Initial Shut-In Pressure <u>1024</u>	PSI	@ (depth) <u>5151</u>	w/Clock No. <u>25813</u>
(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 <u>10 MIN</u>	Test <u>X</u>
(H) Final Hydrostatic Mud <u>2408</u>	PSI	Initial Shut-In <u>60 MIN</u>	Jars <u>X</u>

Final Flow 60 MIN Safety Joint X

Final Shut-In 120 MIN Straddle

Circ. Sub X DRILL BIT

Sampler X

Extra Packer X (SHALE PACKER)

Other

TOTAL PRICE \$ 41350

TRILOBITE TESTING COMPANY 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 SUBSTAINED, 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.

Approved By John Leede

Our Representative Barrym Thomas