

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name THEODORE J. JULIAN #1-26 Test No. 1 Date 10/15/93
Company AMOCO PRODUCTION COMPANY Zone ST LOUIS
Address BOX 800 RM 2118 DENVER CO 80201 Elevation 3188 KB
Co. Rep./Geo. SAM CARMACK Cont. CHEYENNE RIG #2 Est. Ft. of Pay _____
Location: Sec. 26 Twp. 29S Rge. 39W Co. STANTON State KS

Interval Tested <u>5670-5700</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>30</u>	Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth <u>5665-5670</u>	Drill Collar - 2.25 Ft. Run <u>482</u>
Bottom Packer Depth <u>5700</u>	Mud Wt. <u>9.1</u> lb/Gal.
Total Depth <u>5830</u>	Viscosity <u>54</u> Filtrate <u>6.4</u>

Tool Open @ 2:00 AM Initial Blow WEAK 1/4" BLOW DECREASED AND DIED IN 20 MINUTES

Final Blow NO RETURN BLOW

Recovery - Total Feet 20 Flush Tool? NO

Rec. <u>20</u>	Feet of <u>DRILLING MUD</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT 130 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 3000 ppm System

(A) Initial Hydrostatic Mud 2722.4 PSI AK1 Recorder No. 13339 Range 4025

(B) First Initial Flow Pressure 39.9 PSI @ (depth) 5675 w / Clock No. 26199

(C) First Final Flow Pressure 41.1 PSI AK1 Recorder No. 13276 Range 4000

(D) Initial Shut-in Pressure 1022.2 PSI @ (depth) 5680 w / Clock No. 8374

(E) Second Initial Flow Pressure 55.5 PSI AK1 Recorder No. 13309 Range 4700

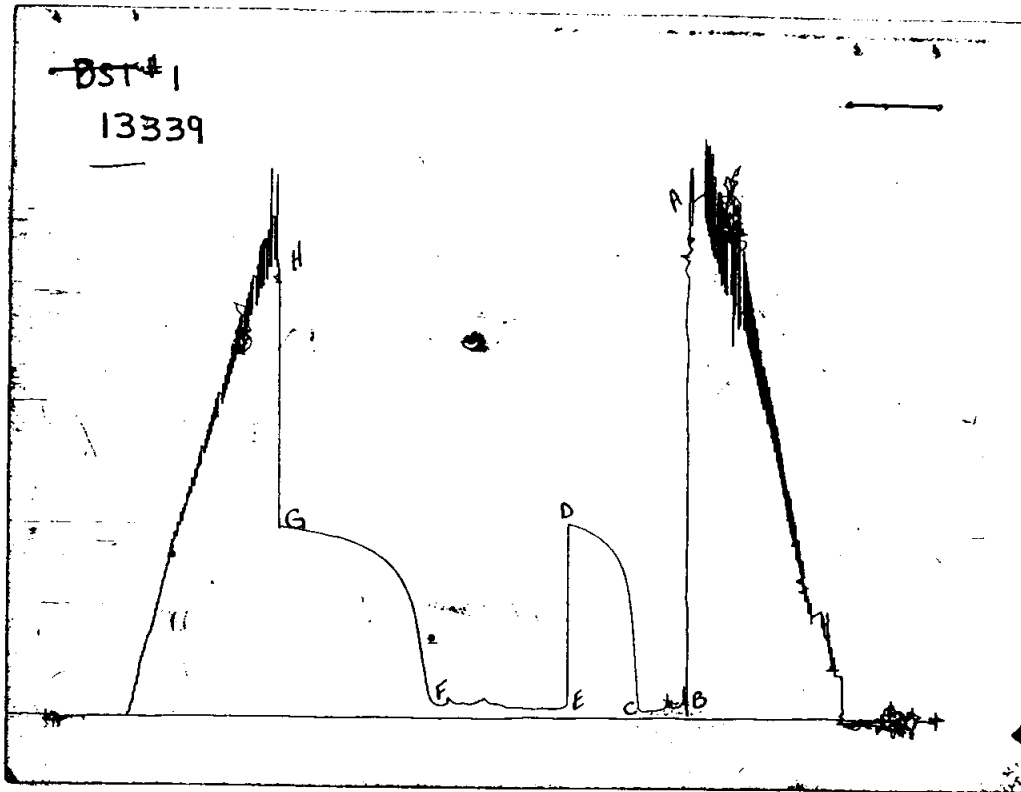
(F) Second Final Flow Pressure 66.6 PSI @ (depth) 5825 w / Clock No. 26191

(G) Final Shut-in Pressure 991.1 PSI Initial Opening 30 Final Flow 90

(H) Final Hydrostatic Mud 2620.0 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative ROD STEINBRINK

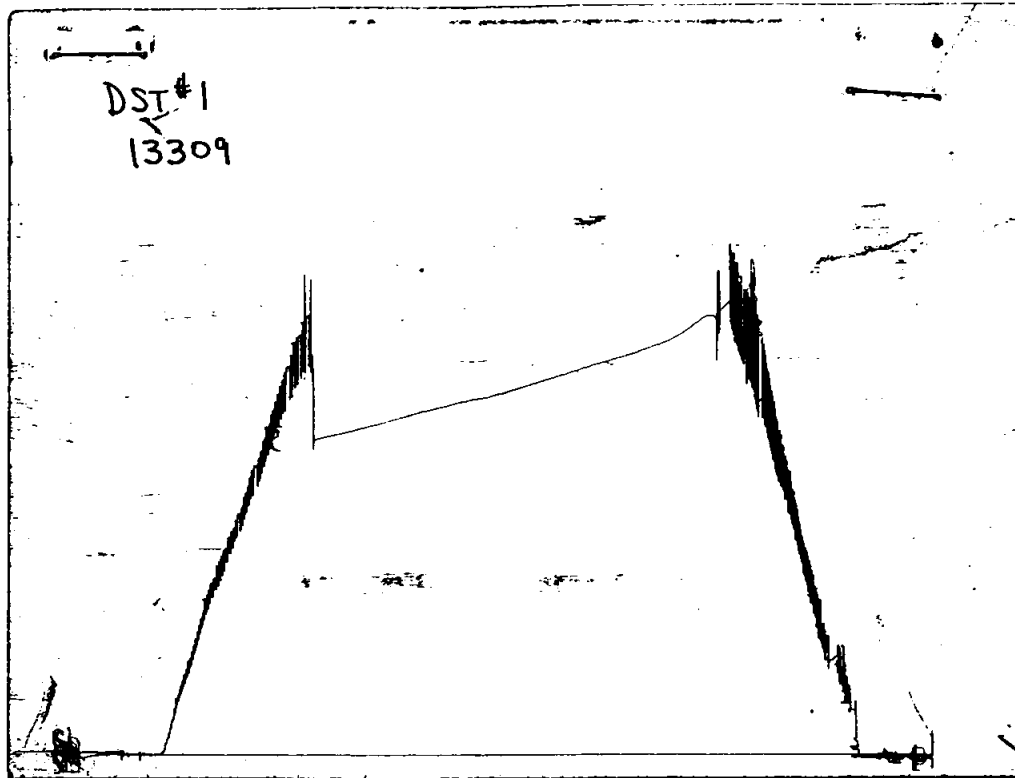
CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2721	2722.4
(B) FIRST INITIAL FLOW PRESSURE	41	39.9
(C) FIRST FINAL FLOW PRESSURE	41	41.1
(D) INITIAL CLOSED-IN PRESSURE	1020	1022.2
(E) SECOND INITIAL FLOW PRESSURE	52	55.5
(F) SECOND FINAL FLOW PRESSURE	62	66.6
(G) FINAL CLOSED-IN PRESSURE	989	991.1
(H) FINAL HYDROSTATIC MUD	2622	2620

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

FLUID SAMPLER DATA

Ticket No.: 6280 Date: 10/15/93
Company: AMOCO PRODUCTION COMPANY
Lease: THEODORE J. JULIAN #1-26 Test No.: 1
County: STANTON Sec.: 26 Twp.: 29S Rng.: 39W

SAMPLER RECOVERY

Gas
Oil
Mud 4000
Water
Other
Pressure 50
TOTAL 4000

PIT MUD ANALYSIS

Chlorides 3000
Resistivity 2 ohms@ 70 F
Viscosity 54
Mud Wt. 9.1/LC
Filtrate 6.4
Other L.C.M. 4#/BBL

SAMPLER ANALYSIS

Resistivity 2 ohms@ 70 F
Chlorides 3000 ppm.
Gravity corrected @60F

PIPE RECOVERY

TOP

Resistivity ohms@ F
Chlorides ppm

MIDDLE

Resistivity ohms@ F
Chlorides ppm

BOTTOM

Resistivity 2 ohms@ 70 F
Chlorides 3000 ppm

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FLUID SAMPLER DATA

Ticket No. 6280 Date 10-15-93
Company Name Amoco Prod. Co. Cont. Cheyenne #2
Lease Theodore J. Julian #1-26 Test No. 1 (St. Genevieve ^{Louis})
County Stanton KS. Sec. 26 Twp. 29^S Rng. 39^W

SAMPLER RECOVERY

Gas - ML
Oil - ML
Mud 4,000 ML
Water - ML
Other - ML
Pressure 50 PSI
Total 4,000 ML

PIT MUD ANALYSIS

Chlorides 3,000 ppm.
Resistivity 2.0 ohms @ 70° F
Viscosity 54
Mud Weight 9.1
Filtrate 6.4
Other L.C.M. 3 4*/bbl.

SAMPLER ANALYSIS

Resistivity 2.0 ohms @ 70° F
Chlorides 3,000 ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM
Resistivity 2.0 ohms @ 70° F
Chlorides 3,000 ppm.

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Test Ticket

No 6280

Well Name & No.	<u>Theodore J. Julian #1-26</u>	Test No.	<u>1</u>	Date	<u>10/15/93</u>
Company	<u>Amoco Production Company</u>	Zone Tested	<u>St. Genevieve Louis</u>		
Address	<u>P.O. Box 800 Denver, CO. 80201</u>	Elevation	<u>3188 (KB)</u>		
Co. Rep./Geo.	<u>Sam Carmack</u>	cont.	<u>Cheyenne #2</u>	Est. Ft. of Pay	
Location: Sec.	<u>26</u>	Twp.	<u>29 S</u>	Rge.	<u>39 W</u>
		Co.	<u>Stanton</u>	State	<u>KS.</u>
No. of Copies	<u>5</u>	Distribution Sheet	Yes <u>X</u> No <u>Turnkey</u>	Yes <u>X</u> No <u>No</u>	Evaluation

Interval Tested	<u>5670 - 5700</u>	Drill Pipe Size	<u>4 1/2" XH</u>
Anchor Length	<u>30'</u>	Top Choke — 1"	Bottom Choke — 1/4"
Top Packer Depth	<u>5665 - 5670</u>	Hole Size — 7 7/8"	Rubber Size — 6 3/4"
Bottom Packer Depth	<u>5700</u>	Wt. Pipe I.D. — 2.7 Ft. Run	<u>—</u>
Total Depth	<u>(RTD) 5830</u>	Drill Collar — 2.25 Ft. Run	<u>482'</u>
Mud Wt.	<u>9.1 / L.C.M. 4</u> lb/gal	Viscosity	<u>54</u>
		Filtrate	<u>6.4</u>
Tool Open @	<u>2:00 am (CDT) Initial Blow Weak 1/4" blow decreased and died in 20 mins</u>		
Final Blow	<u>No return blow.</u>		

Recovery — Total Feet	<u>20'</u>	Feet of Gas in Pipe	<u>—</u>	Flush Tool?	<u>No</u>
Rec.	Feet Of	% gas	% oil	% water	% mud
Rec.	Feet Of	% gas	% oil	% water	% mud
Rec.	<u>20'</u> Feet Of	<u>Drilg. Mud</u>			
Rec.	Feet Of	% gas	% oil	% water	% mud
Rec.	Feet Of	% gas	% oil	% water	% mud

BHT 130° °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 3,000 ppm System

(A) Initial Hydrostatic Mud	<u>2721</u>	PSI	AK1 Recorder No.	<u>13339</u>	Range	<u>4025</u>
(B) First Initial Flow Pressure	<u>41</u>	PSI	@ (depth)	<u>5675</u>	w/Clock No.	<u>26199</u>
(C) First Final Flow Pressure	<u>41</u>	PSI	AK1 Recorder No.	<u>13276</u>	Range	<u>4000</u>
(D) Initial Shut-In Pressure	<u>1020</u>	PSI	@ (depth)	<u>5680</u>	w/Clock No.	<u>B374</u>
(E) Second Initial Flow Pressure	<u>52</u>	PSI	AK1 Recorder No.	<u>13309</u>	Range	<u>4700</u>
(F) Second Final Flow Pressure	<u>62</u>	PSI	@ (depth)	<u>5825</u>	w/Clock No.	<u>26191</u>
(G) Final Shut-In Pressure	<u>989</u>	PSI	Initial Opening	<u>30</u>	Test	<u>700.00</u>
(H) Final Hydrostatic Mud	<u>2622</u>	PSI	Initial Shut-In	<u>60</u>	Jars	<u>X 200.00</u>

TRILOBITE TESTING L.L.C. 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 SUSTAINED, 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.

Final Flow	<u>90</u>	Safety Joint	<u>X 50.00</u>
Final Shut-In	<u>120</u>	Straddle	<u>X 250.00</u>
		Circ. Sub	<u>X N/C</u>
		Sampler	<u>X 200.00</u>
		Extra Packer	<u>X 150.00</u>
		Other	
		TOTAL PRICE \$	<u>1150.00</u>

Approved By _____

Our Representative Rod Steinbrink