

15-067-20960

3-28-37W

Computer Invented

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

COPY

Drill-Stem Test Data

Well Name & No. <u>FOGARTY #3</u>	Test No. <u>1</u>	Date <u>1/4/90</u>
Company <u>AMOCO PRODUCTION CO</u>	Zone Tested <u>MORROW</u>	
Address <u>P.O. BOX 800 ROOM 1846 DENVER CO 80201</u>	Elevation <u>3076 KB</u>	
Co. Rep./Geo. <u>R OSTERBUHR/B POSEY</u>	Cont. <u>EXETER RIG #13</u>	Est. Ft. of Pay <u>10</u>
Location: Sec. <u>3</u>	Twp. <u>28S</u>	Rge. <u>37W</u> Co. <u>GRANT</u> State <u>KANSAS</u>

Interval Tested <u>5040-5230</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>190</u>	Top Choke — 1" _____
Top Packer Depth <u>5035</u>	Bottom Choke — 3/4" _____
Bottom Packer Depth <u>5040</u>	Hole Size — 7 7/8" _____
Total Depth <u>5230</u>	Rubber Size — 6 3/4" _____
Wt. Pipe I.D. — 2.7 _____	Ft. Run <u>0</u>
Drill Collar — 2.25 _____	Ft. Run <u>624</u>
Mud Wt. <u>9.2</u> lb./gal.	Viscosity <u>46</u> Filtrate <u>7.2</u>
Tool Open @ <u>10:58 AM</u>	Initial Blow <u>STRONG BLOW OFF BOTTOM OF BUCKET IN 30</u>
<u>SECONDS</u>	
Final Blow <u>WEAK 1" BLOW BUILDING TO A STRONG 8" BLOW</u>	

Recovery — Total Feet <u>890</u>	Flush Tool? <u>NO</u>
Rec. <u>350</u> Feet of <u>DRILLING MUD.</u>	
Rec. <u>540</u> Feet of <u>SLIGHTLY GAS CUT MUDDY SALT WATER</u>	
Rec. <u>0</u> Feet of _____	
Rec. <u>0</u> Feet of _____	
Rec. <u>0</u> Feet of _____	

BHT <u>129</u> °F	Gravity _____ °API @ <u>0</u> °F	Corrected Gravity <u>0</u> °API
RW <u>.116</u> @ <u>45.5</u> °F	Chlorides <u>75000</u> ppm	Recovery Chlorides <u>3500</u> ppm System
(A) Initial Hydrostatic Mud <u>2677.5</u> PSI	AK1 Recorder No. <u>13308</u>	Range <u>4700</u>
(B) First Initial Flow Pressure <u>510.2</u> PSI	@ (depth) <u>5212</u>	w/Clock No. <u>31154</u>
(C) First Final Flow Pressure <u>522.3</u> PSI	AK1 Recorder No. <u>13850</u>	Range <u>4325</u>
(D) Initial Shut-In Pressure <u>616.5</u> PSI	@ (depth) <u>5226</u>	w/Clock No. <u>27588</u>
(E) Second Initial Flow Pressure <u>557.8</u> PSI	Initial Opening <u>15</u>	
(F) Second Final Flow Pressure <u>594.2</u> PSI	Initial Shut-In <u>30</u>	
(G) Final Shut-In Pressure <u>628.7</u> PSI	Final Flow <u>60</u>	
(H) Final Hydrostatic Mud <u>2631.5</u> PSI	Final Shut-In <u>60</u>	

Our Representative MR CARL F GOFF TOTAL PRICE \$ 650

3-28-37W

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

TEST TICKET

COPY

 No. 2267

Well Name & No. <u>Energy #3</u>	Test No. <u>1</u>	Date <u>1/4/90</u>
Company <u>Amoco Production Co.</u>	Zone Tested <u>Wagonwheel</u>	
Address <u>P.O. Box 900, Ray, MO, Denver, Co 80201</u>	Elevation <u>3076 KB</u>	
Co. Rep./Geo. <u>Bob Posey</u> cont. <u>Exeter Rig #13</u>	Est. Ft. of Pay. <u>10'</u>	
Location: Sec. <u>3</u> Twp. <u>28S</u> Rge. <u>37W</u> Co. <u>Grant</u> State <u>Ks.</u>		

Interval Tested <u>5240-5230</u>	Drill Pipe Size <u>4 1/2 X H</u>
Anchor Length <u>190</u>	Top Choke - 1" _____
Top Packer Depth <u>5235</u>	Bottom Choke - 3/4" _____
Bottom Packer Depth <u>5240</u>	Hole Size - 7 1/8" _____
Total Depth <u>5230</u>	Rubber Size - 6 3/4" _____
Wt. Pipe I.D. - 2.7 _____	Ft. Run _____
Drill Collar - 2.25 _____	Ft. Run <u>624</u>
Mud Wt. <u>9.31</u> lb./gal.	Viscosity <u>46</u> Filtrate <u>2.2</u>
Tool Open @ <u>12:58 AM</u>	Initial Blow <u>Strong blow 2' bottom of bucket in 2000'</u>

Final Blow Hook 1" blow building to a strong 8" blow

Recovery - Total Feet <u>890</u>	Flush Tool? _____
Rec. <u>350</u> Feet of <u>Dry Mud</u>	
Rec. <u>1200</u> Feet of <u>Slightly coarse cut Mudaly Salt 2 1/2"</u>	
Rec. _____ Feet of _____	
Rec. _____ Feet of _____	
Rec. _____ Feet of _____	

BHT 129 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW 1 1/4 @ 45.5 °F Chlorides 95,000 ppm Recovery Chlorides 25,200 ppm System

(A) Initial Hydrostatic Mud <u>2470</u> PSI AK1 Recorder No. <u>13308</u> Range <u>4700</u>
(B) First Initial Flow Pressure <u>525</u> PSI @ (depth) <u>5212</u> w/Clock No. <u>31154</u>
(C) First Final Flow Pressure <u>517</u> PSI AK1 Recorder No. <u>13850</u> Range <u>4225</u>
(D) Initial Shut-In Pressure <u>611</u> PSI @ (depth) <u>5226</u> w/Clock No. <u>25585</u>
(E) Second Initial Flow Pressure <u>552</u> PSI Initial Opening <u>15</u> Test <u>400</u>
(F) Second Final Flow Pressure <u>587</u> PSI Initial Shut-In <u>30</u> Jars <u>X</u> <u>300</u>
(G) Final Shut-In Pressure <u>623</u> PSI Final Flow <u>60</u> Safety Joint <u>X</u> <u>500</u>
(H) Final Hydrostatic Mud <u>2225</u> PSI Final Shut-In <u>60</u> Straddle _____

Approved By Bob Posey Circ. Sub X

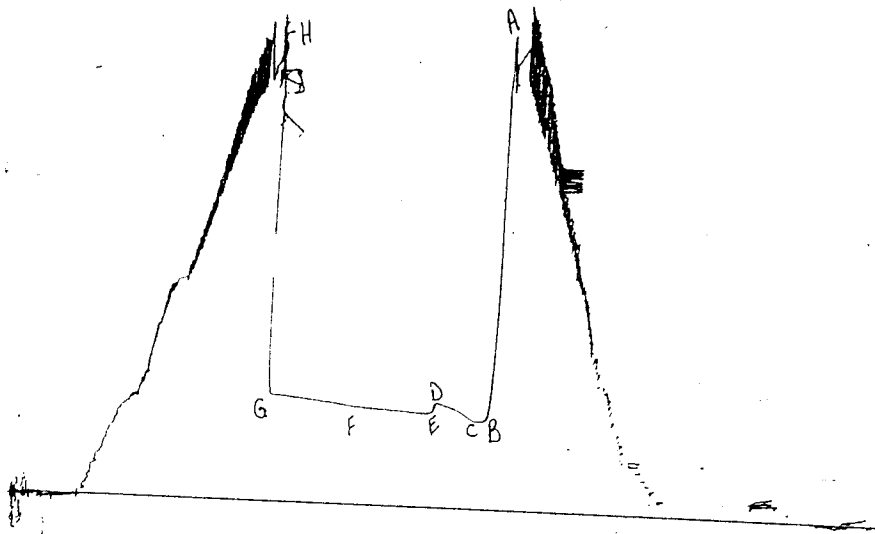
Our Representative Carl H. [Signature] Sampler _____

Printcraft Printers - Hays, KS 5 Final Copies w/ Amoco Extra Packer _____ Other _____ TOTAL PRICE \$ _____

COPY

DST# /

RECORDER# 12950



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud.....	2672	2677.5	PSI
(B) First Initial Flow Pressure.....	505	510.2	PSI
(C) First Final Flow Pressure.....	517	522.3	PSI
(D) Initial Closed-In Pressure.....	811	616.5	PSI
(E) Second Initial Flow Pressure.....	552	557.8	PSI
(F) Second Final Flow Pressure.....	587	594.2	PSI
(G) Final Closed-In Pressure.....	623	628.7	PSI
(H) Final Hydrostatic Mud.....	2625	2631.5	PSI