

# TRILOBITE TESTING COMPANY, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name DUANE #1-36 Test No. 1 Date 2/5/92  
Company BEREXCO INC. Zone Tested MARMATON  
Address 970 4th FINANCIAL CNTR WICHITA KS Elevation 2856 G.L.  
Co. Rep./Geo. CHARLIE SPRADLIN Cont. BEREDCO RIG Est. Ft. of Pay 8  
Location: Sec. 36 Twp. 31S Rge. 33W Co. SEWARD State KS

Interval Tested 4937-4952 Drill Pipe Size 4.5 XH  
Anchor Length 15 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 4932 Drill Collar — 2.25 Ft. Run 620  
Bottom Packer Depth 4937  
Total Depth 4952

Mud Wt. 9.2 lb / gal. Viscosity 46 Filtrate 7

Tool Open @ 5:45 Initial Blow VERY GOOD-BOTTOM OF BUCKET IN 30 SECONDS  
ISI: BLOW BACK 1" IN WATER  
Final Blow SAME AS INITIAL

Recovery — Total Feet 220 Flush Tool? NO

Rec. 2660 Feet of GAS IN PIPE

Rec. 30 Feet of MUD

Rec. 160 Feet of OIL & GAS CUT MUD-30%GAS/15%OIL/55%MUD

Rec. 30 Feet of WATER

Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 118 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API

RW 0.15 @ 65 °F Chlorides 55000 ppm Recovery Chlorides 2800 ppm System

(A) Initial Hydrostatic Mud 2550.3 PSI AK1 Recorder No. 13851 Range 4425

(B) First Initial Flow Pressure 72.4 PSI @ (depth) 4947 w/Clock No. 25813

(C) First Final Flow Pressure 83.6 PSI AK1 Recorder No. 13850 Range 4325

(D) Initial Shut-in Pressure 1140.5 PSI @ (depth) 4952 w/Clock No. \_\_\_\_\_

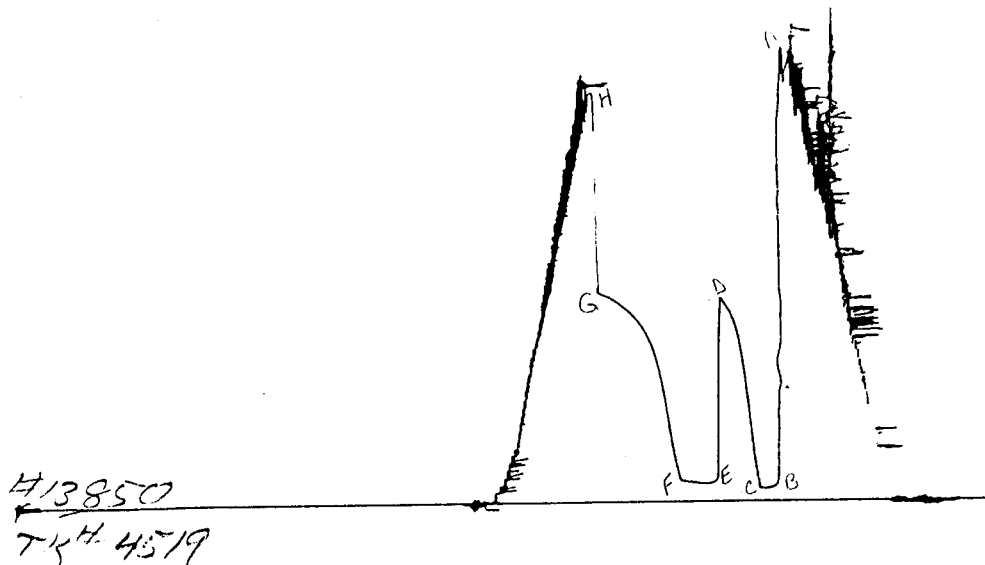
(E) Second Initial Flow Pressure 92.3 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

(F) Second Final Flow Pressure 114.5 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 1182.3 PSI Initial Opening 15 Final Flow 30

(H) Final Hydrostatic Mud 2544.7 PSI Initial Shut-In 30 Final Shut-In 60

Our Representative HARRY SCHMIDT TOTAL PRICE \$ 800



POINT This is an actual photograph of recorder chart  
PRESSURE

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2542	2550.3
(B) FIRST INITIAL FLOW PRESSURE	66	72.4
(C) FIRST FINAL FLOW PRESSURE	77	83.6
(D) INITIAL CLOSED-IN PRESSURE	1134	1140.5
(E) SECOND INITIAL FLOW PRESSURE	88	92.3
(F) SECOND FINAL FLOW PRESSURE	111	114.5
(G) FINAL CLOSED-IN PRESSURE	1178	1182.3
(H) FINAL HYDROSTATIC MUD	2540	2544.7

CALCULATED RECOVERY ANALYSIS

DRILL COLLARS

DST # 1

TICKET # 4519

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	30	0	0	0	0	0	0	100	30
2	160	30	48	15	24	0	0	55	88
3	30	0	0	0	0	100	30	0	0
4			0		0		0		0
5			0		0		0		0
TOTAL	220	21.8	48	10.9091	24	13.6364	30	53.6364	118

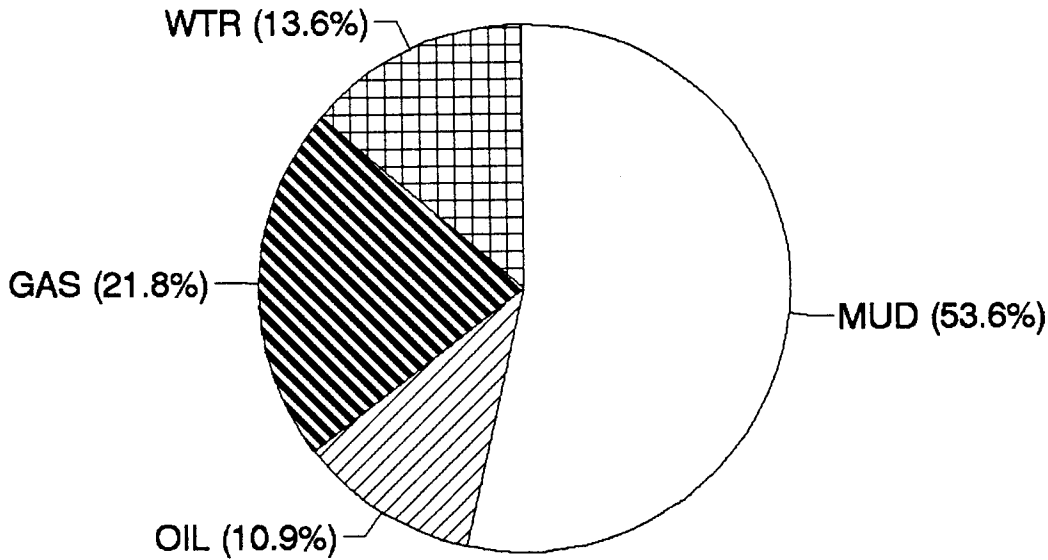
HRS OPEN BBL/DAY

BBL OIL= 0.11736 \* 0.75 3.75552

BBL WATER 0.1467 \* 4.6944

BBL MUD= 0.57702

BBL GAS= 0.23472



# TRILOBITE TESTING COMPANY INC.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 4519

Well Name & No. DVANE # 1-36 Test No. ONE Date 2-5-92  
Company BEREXCO INC. Zone Tested MARMATON  
Address 970 4<sup>TH</sup> FINANCIAL CTR. WICHITA KS 67202 Elevation 2856GL  
Co. Rep./Geo. \_\_\_\_\_ Cont. BEREDLO Est. Ft. of Pay 8  
Location: Sec. 36 Twp. 31S Rge. 33 W Co. SEWARD State KS  
No. of Copies \_\_\_\_\_ Distribution Sheet \_\_\_\_\_ Yes \_\_\_\_\_ No \_\_\_\_\_ Turnkey \_\_\_\_\_ Yes \_\_\_\_\_ No \_\_\_\_\_ Evaluation \_\_\_\_\_

Interval Tested 4937 TO 4952 Drill Pipe Size 4 1/2" X.H.  
Anchor Length 15' Top Choke — 1" \_\_\_\_\_ Bottom Choke — 3/4" \_\_\_\_\_  
Top Packer Depth 4932 Hole Size — 7 7/8" \_\_\_\_\_ Rubber Size — 6 3/4" \_\_\_\_\_  
Bottom Packer Depth 4937 Wt. Pipe I.D. — 2.7 Ft. Run \_\_\_\_\_  
Total Depth 4952 Drill Collar — 2.25 Ft. Run 620  
Mud Wt. 9.2 lb/gal. Viscosity 46 Filtrate 7.0  
Tool Open @ 5:45 Initial Blow VERY GOOD BOT-BUCKET IN 30 SEC.  
151. BLOW BACK 1" IN WATER  
Final Blow SAME AS INITIAL

Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?
<u>190 220</u>	<u>2660</u>	<u>NO</u>
Rec. <u>30</u> Feet Of <u>MUD</u>	% gas _____ % oil _____ % water _____ % mud _____	
Rec. <u>160</u> Feet Of <u>OTGCM</u>	<u>30</u> % gas <u>15</u> % oil _____ % water <u>55</u> % mud _____	
Rec. <u>30</u> Feet Of <u>WATER</u>	% gas _____ % oil _____ % water _____ % mud _____	
Rec. _____ Feet Of _____	% gas _____ % oil _____ % water _____ % mud _____	
Rec. _____ Feet Of _____	% gas _____ % oil _____ % water _____ % mud _____	

BHT 118 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW 0-15 @ 65 °F Chlorides 55,000 ppm Recovery Chlorides 2800 ppm System  
(A) Initial Hydrostatic Mud 2542 PSI AK1 Recorder No. 13851 Range 4425  
(B) First Initial Flow Pressure 66 PSI @ (depth) 4947 w/Clock No. 25813  
(C) First Final Flow Pressure 77 PSI AK1 Recorder No. 13856 Range 4325  
(D) Initial Shut-In Pressure 1134 PSI @ (depth) 4952 w/Clock No. 27211  
(E) Second Initial Flow Pressure 88 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
(F) Second Final Flow Pressure 111 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_  
(G) Final Shut-In Pressure 1178 PSI Initial Opening 15 Test 550 <sup>ov</sup>  
(H) Final Hydrostatic Mud 2540 PSI Initial Shut-In 30 Jars 200 <sup>ov</sup>

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.

Final Flow 30 Safety Joint 50 <sup>ov</sup>  
Final Shut-In 60 Straddle \_\_\_\_\_  
Circ. Sub \_\_\_\_\_  
Sampler \_\_\_\_\_  
Extra Packer \_\_\_\_\_  
Other \_\_\_\_\_  
TOTAL PRICE \$ 800 <sup>ov</sup>

Approved By Charles J. Spaldin  
Our Representative [Signature]

# TRILOBITE TESTING COMPANY, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name DUANE #1-36 Test No. 2 Date 2/7/92  
Company BEREXCO INC. Zone Tested MORROW  
Address 970 4th FINANCIAL CNTR WICHITA KS Elevation 2871 K.B.  
Co. Rep./Geo. CHARLIE SPRADLIN Cont. BEREDCO RIG Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 36 Twp. 31S Rge. 33W Co. SEWARD State KS

Interval Tested 5485-5549 Drill Pipe Size 4.5 XH  
Anchor Length 64 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 5480 Drill Collar - 2.25 Ft. Run 590  
Bottom Packer Depth 5485  
Total Depth 5549

Mud Wt. 9 lb / gal. Viscosity 46 Filtrate 6

Tool Open @ 8:50 AM Initial Blow 1" BLOW-BUILT TO 9"  
ISI: BLED OFF BLOW-NO BLOW BACK  
Final Blow OFF BOTTOM OF BUCKET SOON AS TOOL OPENED  
FSI: BLED OFF BLOW-NO BLOW BACK

Recovery - Total Feet 15 Flush Tool? NO

Rec. 1100 Feet of GAS IN PIPE

Rec. 15 Feet of GASSY DRILLING MUD

Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 124 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API

RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 2000 ppm System

(A) Initial Hydrostatic Mud 2650.4 PSI Ak1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure 71.2 PSI @ (depth) 5489 w/Clock No. 25828

(C) First Final Flow Pressure 60.9 PSI Ak1 Recorder No. 11038 Range 5075

(D) Initial Shut-in Pressure 233.5 PSI @ (depth) 5546 w/Clock No. 3942

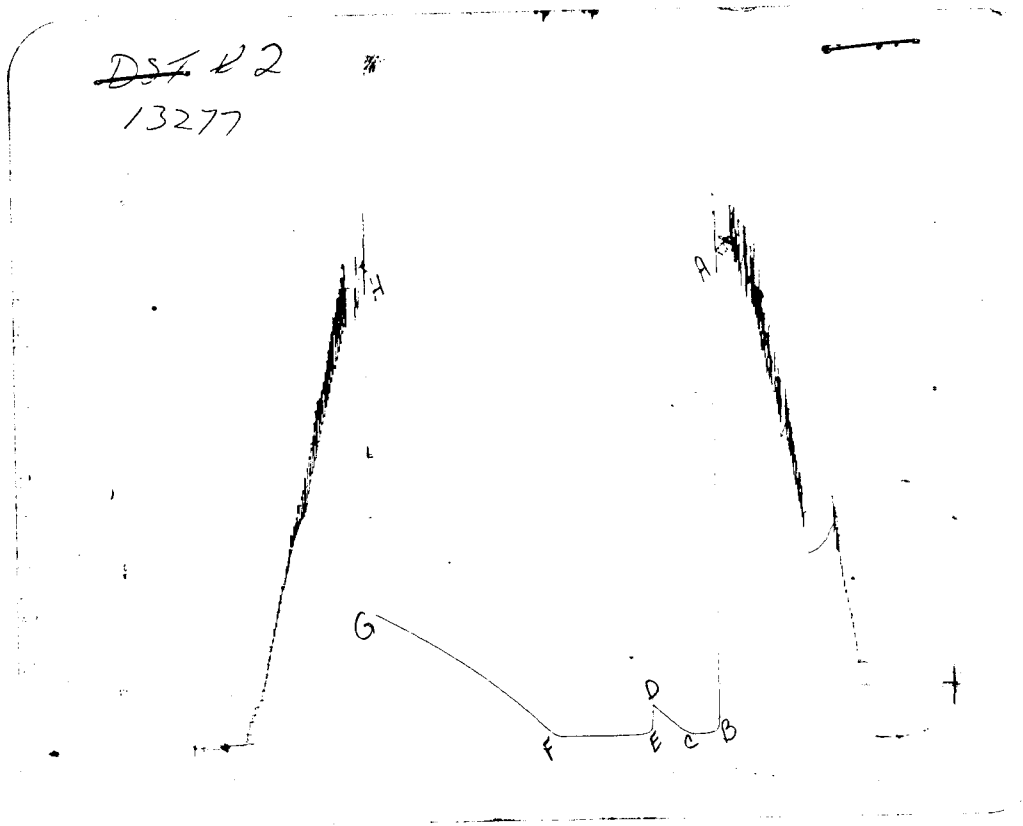
(E) Second Initial Flow Pressure 60.9 PSI Ak1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

(F) Second Final Flow Pressure 60.9 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 744.3 PSI Initial Opening 15 Final Flow 60

(H) Final Hydrostatic Mud 2599.6 PSI Initial Shut-in 30 Final Shut-in 120

Our Representative TOM HORACEK TOTAL PRICE \$ 900



POINT This is an actual photograph of recorder chart PRESSURE

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2632	2650.4
(B) FIRST INITIAL FLOW PRESSURE	68	71.2
(C) FIRST FINAL FLOW PRESSURE	55	60.9
(D) INITIAL CLOSED-IN PRESSURE	230	233.5
(E) SECOND INITIAL FLOW PRESSURE	55	60.9
(F) SECOND FINAL FLOW PRESSURE	55	60.9
(G) FINAL CLOSED-IN PRESSURE	740	744.3
(H) FINAL HYDROSTATIC MUD	2593	2599.6

# TRILOBITE TESTING COMPANY I.I.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 4426

Well Name & No. Duane #1-36 Test No. 2 Date 2-7-92  
Company Berexco Zone Tested Morrow  
Address 970 4th Financial Center Wichita K- 67202 Elevation 2871 (KB)  
CO. Rep./Geo. Charles Spruill cont. Berexco Dr. #4 Est. Ft. of Pay 5'  
Location: Sec. 36 Twp. 31 Rge. 33 Co. Seward State K  
No. of Copies 17 Distribution Sheet X Yes      No      Turnkey      Yes      No      Evaluation     

Interval Tested 5485-5549 Drill Pipe Size 4.5 x Hole  
Anchor Length 64' Top Choke — 1" Bottom Choke — 3/4"  
Top Packer Depth 5480 Hole Size — 77/8" Rubber Size — 63/4"  
Bottom Packer Depth 5495 Wt. Pipe I.D. — 2.7 Ft. Run       
Total Depth 5549 Drill Collar — 2.25 Ft. Run 590'  
Mud Wt. 9.0 lb/gal. Viscosity 46 Filtrate 6.0  
Tool Open @ 8:50 AM Initial Blow lin blow - built to 9 in.  
ISI - bled off blow - no blow back  
Final Blow off bottom of bucket soon as tool opened  
FST - bled off blow - no blow back

Recovery — Total Feet 15' Feet of Gas in Pipe 1100 Flush Tool? NO

Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	<u>15'</u> Feet Of <u>Gassy Dr. mud</u>	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud

BHT 124 °F Gravity      °API @      °F Corrected Gravity      °API  
RW      @      °F Chlorides      ppm Recovery Chlorides 2000 ppm System  
(A) Initial Hydrostatic Mud 2632 PSI AK1 Recorder No. 13277 Range 4125  
(B) First Initial Flow Pressure 68 PSI @ (depth) 5489 w/Clock No. 25828  
(C) First Final Flow Pressure 55 PSI AK1 Recorder No. 11038 Range 5075  
(D) Initial Shut-In Pressure 230 PSI @ (depth) 5546 w/Clock No. 3942  
(E) Second Initial Flow Pressure 55 PSI AK1 Recorder No.      Range       
(F) Second Final Flow Pressure 55 PSI @ (depth)      w/Clock No.       
(G) Final Shut-In Pressure 740 PSI Initial Opening 15 Test X 650.00  
(H) Final Hydrostatic Mud 2593 PSI Initial Shut-In 30 Jars X 20.00

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Final Flow 60 Safety Joint X 50.00  
Final Shut-In 120 Straddle       
Circ. Sub       
Sampler       
Extra Packer       
Other       
TOTAL PRICE \$ 900.00

Approved By Charles M Spruill  
Our Representative Tom Racek

# TRILOBITE TESTING COMPANY, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name DUANE #1-36 Test No. 3 Date 2/9/92  
Company BEREXCO INC. Zone Tested MARMATON  
Address 970 4th FINANCIAL CNTR WICHITA KS Elevation 2856 G.L.  
Co. Rep./Geo. CHARLIE SPRADLIN cont. BEREDCO RIG Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 36 Twp. 31S Rge. 33W Co. SEWARD State KS

Interval Tested 4938-4954 Drill Pipe Size 4.5 XH  
Anchor Length 16 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 4933-4938 Drill Collar - 2.25 Ft. Run 265  
Bottom Packer Depth 4954  
Total Depth 5950

Mud Wt. 9 lb / gal. Viscosity 55 Filtrate 6.2

Tool Open @ 8:20 PM Initial Blow 1" BLOW BUILT TO BOTTOM OF BUCKET IN 2 MINUTES  
ISI: BLED OFF BLOW-NO BLOW BACK  
Final Blow 1" BLOW-BUILT TO BOTTOM IN 3 MINUTES  
FSI: BLED OFF BLOW-NO BLOW BACK

Recovery — Total Feet 370 Flush Tool? NO

Rec. 2800 Feet of GAS IN PIPE

Rec. 2 Feet of CLEAN GASSY OIL-20%GAS/80%OIL

Rec. 90 Feet of OIL CUT MUD-30%GAS/15%OIL/55%MUD

Rec. 278 Feet of SALT WATER

Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
BHT 118 °F Gravity 38 °API @ 70 °F Corrected Gravity 37 °API

RW 0.14 @ 66 °F Chlorides 52000 ppm Recovery Chlorides 1800 ppm System

(A) Initial Hydrostatic Mud 2480.9 PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure 71.2 PSI @ (depth) 4741 w/Clock No. 25828

(C) First Final Flow Pressure 71.2 PSI AK1 Recorder No. 11038 Range 5075

(D) Initial Shut-in Pressure 1240.6 PSI @ (depth) 4947 w/Clock No. 3942

(E) Second Initial Flow Pressure 125.9 PSI AK1 Recorder No. 5495 Range 4200

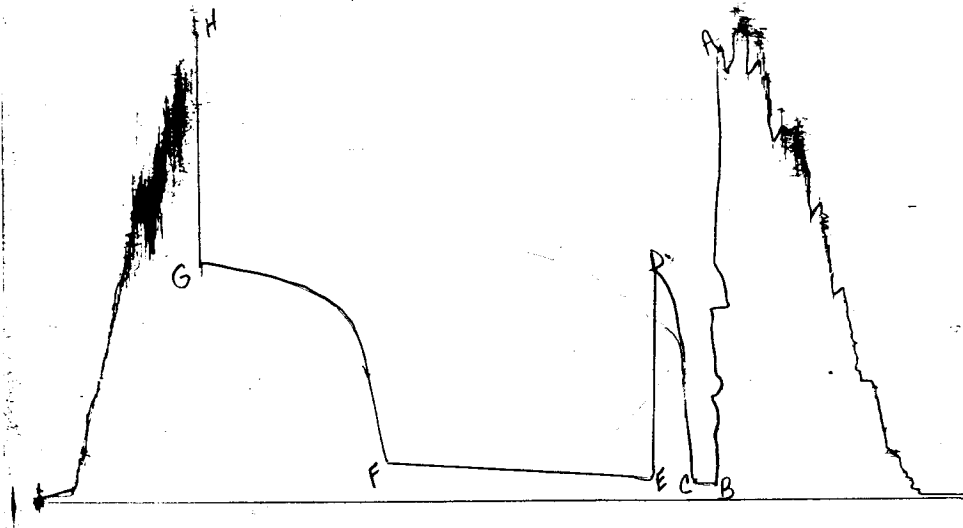
(F) Second Final Flow Pressure 194.5 PSI @ (depth) 5021 w/Clock No. 27594

(G) Final Shut-in Pressure 1314.7 PSI Initial Opening 15 Final Flow 180

(H) Final Hydrostatic Mud 2440.7 PSI Initial Shut-in 30 Final Shut-in 120

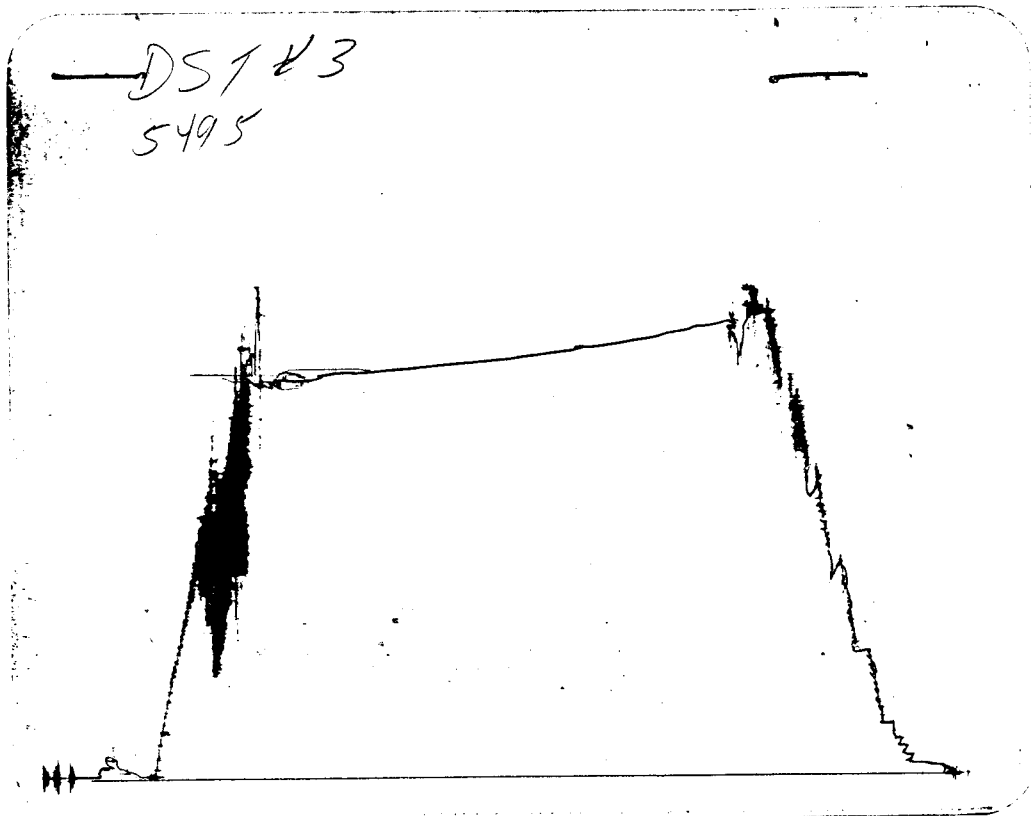
Our Representative TOM HORACEK TOTAL PRICE \$ 1500

DS 1#3  
13277



POINT This is an actual photograph of recorder chart PRESSURE

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2477	2480.9
(B) FIRST INITIAL FLOW PRESSURE	68	71.2
(C) FIRST FINAL FLOW PRESSURE	68	71.2
(D) INITIAL CLOSED-IN PRESSURE	1235	1240.6
(E) SECOND INITIAL FLOW PRESSURE	122	125.9
(F) SECOND FINAL FLOW PRESSURE	190	194.5
(G) FINAL CLOSED-IN PRESSURE	1310	1314.7
(H) FINAL HYDROSTATIC MUD	2439	2440.7



POINT This is an actual photograph of recorder chart PRESSURE

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



# TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

№ 4427

Well Name & No. <u>Duane # 1-36</u>	Test No. <u>3</u>	Date <u>2-9-92</u>
Company <u>Berexco</u>	Zone Tested <u>marmaton</u>	
Address <u>970 4th Financial Center Wichita 67202</u>	Elevation <u>2871</u>	<u>(KB)</u>
Co. Rep./Geo. <u>Charlie Spradlin</u>	cont. <u>Barbara W. 44</u>	Est. Ft. of Pay _____
Location: Sec. <u>36</u>	Twp. <u>31</u>	Rge. <u>33</u>
Co. <u>Seward</u>	State <u>Ks</u>	
No. of Copies <u>17</u>	Distribution Sheet <u>X</u>	Yes _____ No _____
Turnkey _____	Yes _____	No _____ Evaluation _____

Interval Tested <u>4938-4954</u>	Drill Pipe Size <u>4.5 x-Hole</u>
Anchor Length <u>16'</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>4933-4938</u>	Hole Size — 77/8" _____ Rubber Size — 63/4" _____
Bottom Packer Depth <u>4954</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>5950</u>	Drill Collar — 2.25 Ft. Run <u>265'</u>
Mud Wt. <u>9.0</u> lb/gal.	Viscosity <u>55</u> Filtrate <u>6.2</u>

Tool Open @ 8:20 pm Initial Blow lin blow - built to bottom of bucket 2 min  
ISJ - bled off blow - no blow back

Final Blow lin blow - built to bottom in 3 min  
FSJ - bled off blow - no blow back

Recovery — Total Feet <u>370'</u>	Feet of Gas in Pipe <u>2800</u>	Flush Tool? <u>NO</u>
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. <u>2</u> Feet Of <u>CGO</u>	<u>20</u> %gas <u>80</u> %oil _____ %water _____ %mud _____	
Rec. <u>90</u> Feet Of <u>OCM</u>	<u>30</u> %gas <u>15</u> %oil _____ %water <u>55</u> %mud _____	
Rec. <u>278</u> Feet Of <u>salt water</u>	_____ %gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	_____ %gas _____ %oil _____ %water _____ %mud _____	

BHT 118° °F Gravity 38 °API @ 70 °F Corrected Gravity 37 °API

RW .14 @ 66 °F Chlorides 52000 ppm Recovery Chlorides 1800 ppm System

(A) Initial Hydrostatic Mud <u>2477</u>	PSI	AK1 Recorder No. <u>13277</u>	Range <u>4125</u>
(B) First Initial Flow Pressure <u>68</u>	PSI	@ (depth) <u>4941</u>	w/Clock No. <u>25828</u>
(C) First Final Flow Pressure <u>68</u>	PSI	AK1 Recorder No. <u>11038</u>	Range <u>5075</u>
(D) Initial Shut-In Pressure <u>1235</u>	PSI	@ (depth) <u>4947</u>	w/Clock No. <u>3742</u>
(E) Second Initial Flow Pressure <u>122</u>	PSI	AK1 Recorder No. <u>5495</u>	Range <u>4200</u>
(F) Second Final Flow Pressure <u>190</u>	PSI	@ (depth) <u>5021</u>	w/Clock No. <u>27594</u>
(G) Final Shut-In Pressure <u>1310</u>	PSI	Initial Opening <u>15</u>	Test <u>X</u>
(H) Final Hydrostatic Mud <u>2439</u>	PSI	Initial Shut-In <u>30</u>	Jars <u>X</u>

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Final Flow <u>180</u>	Safety Joint <u>X</u>
Final Shut-In <u>120</u>	Straddle <u>X</u>
	Circ. Sub _____
	Sampler _____
	Extra Packer <u>X</u>
	Other <u>Block unit X</u>

Approved By Thomas B. Spradlin

Our Representative Tom Horacek

TOTAL PRICE \$ \_\_\_\_\_