

STATE CORPORATION COMMISSION OF KANSAS  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
ACO-1 WELL HISTORY  
DESCRIPTION OF WELL AND LEASE

Operator: License # 30444

Name: Charter Production Company

Address 224 E. Douglas Suite 400  
Wichita KS 67202

City/State/Zip \_\_\_\_\_

Purchaser: N/A

Operator Contact Person: Jerald W. Rains

Phone (316) 264-2808

Contractor: Name: Eagle Drilling Co., Inc.

License: 5380

Wellsite Geologist: Robert Smith

Designate Type of Completion  
 New Well  Re-Entry  Workover

Oil  SWD  S10W  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Deepening  Re-perf.  Conv. to Inj/SWD  
 Plug Back  PBTB  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Inj?)  Docket No. \_\_\_\_\_

11/9/92 11/19/92 11/19/92  
Spud Date Date Reached TD Completion Date

API NO. 15- 033-20,865 -00-00

County Comanche

**ORIGINAL**

E/2 SW - SW - Sec. 5 Twp. 33 Rge. 20  <sup>E</sup>  <sup>W</sup>

660 Feet from S (circle one) Line of Section

990 Feet from E (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
NE, SE, NW or SW (circle one)

Lease Name John Herd Well # 1

Field Name Ovrracker

Producing Formation N/A

Elevation: Ground 1883 KB 1896

Total Depth 5400 PBTB \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at 17 jts@536 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from \_\_\_\_\_

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan ALT 1 12-2-92  
(Data must be collected from the Reserve Pit)

Chloride content 11M ppm Fluid volume 5100 bbls

Dewatering method used Deflocculation & Evaporation

Location of fluid disposal if hauled offsite:

**RELEASED**

Operator Name \_\_\_\_\_

Lease Name FEB 1 - A 1995 License No. \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Rng. \_\_\_\_\_ E/W \_\_\_\_\_

**FROM CONFIDENTIAL**

County \_\_\_\_\_ Docket No. \_\_\_\_\_

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature [Signature]

Title Operations Manager Date 12-11-92

Subscribed and sworn to before me this 11th day of December 1992

Notary Public [Signature]

Date Commission Expires \_\_\_\_\_

**NANCY KANDT**  
NOTARY PUBLIC  
STATE OF KANSAS  
My Appt. Exp. Feb. 4, 1998

**RECEIVED**  
STATE CORPORATION COMMISSION  
K.C. OFFICE USE ONLY  
 Letter of Confidentiality Attached  
 Wireline Log Received  
 Geologist Report Received  
DISTRIBUTION  
 SWD/Rep  NSPA  
 Plug  Other (Specify)  
KCC  
KGS

Operator Name Charter Production Company Lease Name John Herd Well # 1

Sec. 5 Twp. 33 Rge. 20  East  West  
 County Comanche

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken  Yes  No  
 (Attach Additional Sheets.)  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No  
 Electric Log Run  Yes  No  
 (Submit Copy.)

Log Formation (Top), Depth and Datum  Sample  
 Name Top Datum  
 See Geologist's Log

List All E.Logs Run:  
 Neutron, Micro Resistivity, Array Induction

Please keep all information confidential.

CASING RECORD

New  Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface Casing	12 1/4	8 5/8	24#	536'	PacerLite & Class C	250	

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top/Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
N/A				
Perforate				
Protect Casing				
Plug Back TD				
Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
N/A			

TUBING RECORD  
 N/A Size Set At Packer At Liner Run  Yes  No

Date of First, Resumed Production, SWD or Inj. Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours Oil Bbls. Gas Mcf Water Bbls. Gas-Oil Ratio Gravity

Disposition of Gas:  Vented  Sold  Used on Lease  Open Hole  Perf.  Dually Comp.  Commingled  
 METHOD OF COMPLETION Production Interval

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name JOHN HERD #1 Test No. 1 Date 11/15/92  
Company CHARTER PRODUCTION COMPANY Zone LWR KS CITY  
Address 224 EAST DOUGLAS #400 WICHITA KS 67202 Elevation 1896  
Co. Rep./Geo. ROBERT SMITH Cont. EAGLE DRLG RIG #1 Est. Ft. of Pay 5  
Location: Sec. 5 Twp. 33S Rge. 20W Co. COMANCHE State KS

Interval Tested 4765-4877 Drill Pipe Size 4.5" XH  
Anchor Length 112 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 4760 Drill Collar - 2.25 Ft. Run 180  
Bottom Packer Depth 4765 Mud Wt. 9.1 lb/Gal.  
Total Depth 4877 Viscosity 40 Filtrate 13.2

Tool Open @ 9:10 PM Initial Blow 1/2" BLOW - BUILT TO BOTTOM OF BUCKET IN 10 MINUTES  
ISI: BLED OFF BLOW - NO BLOW BACK  
Final Blow 2" BLOW - BUILT TO BOTTOM IN 2 MINUTES  
FSI: BLED OFF BLOW-NO BLOW BACK

Recovery - Total Feet 180 Flush Tool? NO **RELEASED**

Rec. 1000 Feet of GAS IN PIPE  
Rec. 180 Feet of GASSY OIL CUT MUD-35%GAS/5%OIL/60%MUD  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

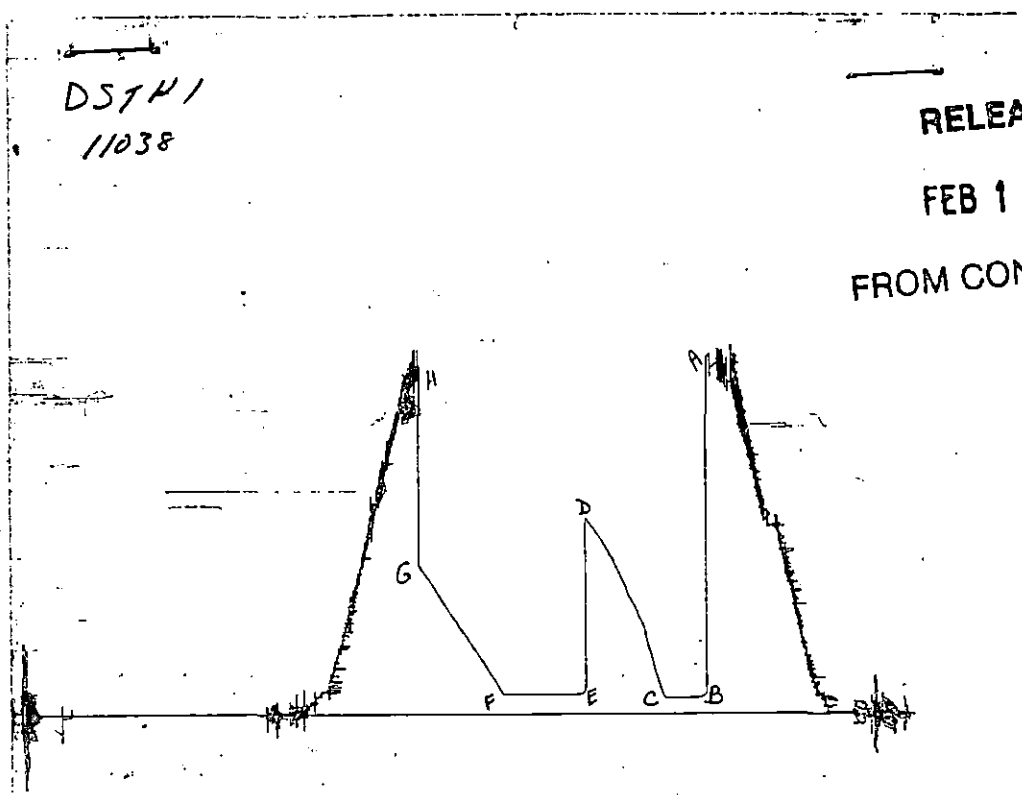
**FEB 14 1995**  
**FROM CONFIDENTIAL**

BHT 108 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 6500 ppm System

(A) Initial Hydrostatic Mud 2325.6 PSI AK1 Recorder No. 13277 Range 4125  
(B) First Initial Flow Pressure 114.7 PSI @ (depth) 4769 w / Clock No. 27594  
(C) First Final Flow Pressure 114.7 PSI AK1 Recorder No. 11038 Range 5075  
(D) Initial Shut-in Pressure 1315.6 PSI @ (depth) 4874 w / Clock No. 25814  
(E) Second Initial Flow Pressure 141.2 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
(F) Second Final Flow Pressure 141.2 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_  
(G) Final Shut-in Pressure 1006.3 PSI Initial Opening 30 Final Flow 60  
(H) Final Hydrostatic Mud 2305.6 PSI Initial Shut-in 60 Final Shut-in 60

Our Representative TOM HORACEK

CHART PAGE



RELEASED  
 FEB 14 1995  
 FROM CONFIDENTIAL

This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2323	2325.6
(B) FIRST INITIAL FLOW PRESSURE	109	114.7
(C) FIRST FINAL FLOW PRESSURE	109	114.7
(D) INITIAL CLOSED-IN PRESSURE	1310	1315.6
(E) SECOND INITIAL FLOW PRESSURE	136	141.2
(F) SECOND FINAL FLOW PRESSURE	136	141.2
(G) FINAL CLOSED-IN PRESSURE	1008	1006.3
(H) FINAL HYDROSTATIC MUD	2298	2305.6

# TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 4848

Well Name & No. John Herd #1 Test No. #1 Date 11-15-92  
 Company Charter Production Company Zone Tested Lower KC  
 Address 224 E. Douglas St. 400 Wichita, KS 67202 Elevation 1896 KB  
 Co. Rep./Geo. Robert Smith Cont. Cagle Ditz #1 Est. Ft. of Pay 5'  
 Location: Sec. 5 Twp. 33 Rge. 20 Co. Comanche State Ks  
 No. of Copies \_\_\_\_\_ Distribution Sheet \_\_\_\_\_ Yes X No Turnkey \_\_\_\_\_ Yes X No \_\_\_\_\_ Evaluation \_\_\_\_\_

Interval Tested 4765-4877 Drill Pipe Size 4.5 x-Hole  
 Anchor Length 112' Top Choke — 1" \_\_\_\_\_ Bottom Choke — 3/4" \_\_\_\_\_  
 Top Packer Depth 4760 Hole Size — 7 7/8" \_\_\_\_\_ Rubber Size — 6 3/4" \_\_\_\_\_  
 Bottom Packer Depth 4765 Wt. Pipe I.D. — 2.7 Ft. Run \_\_\_\_\_  
 Total Depth 4877 Drill Collar — 2.25 Ft. Run 180'  
 Mud Wt. 9.1 lb/gal. Viscosity 40 Filtrate 13.2  
 Tool Open @ 9:10 pm Initial Blow 1/2 blow - built to bottom of bucket 10 min.  
ISI - Bled off blow - NO blow back  
 Final Blow 2 in blow - built to bottom 2 min.  
ESI - Bled off blow - NO blow back

Recovery — Total Feet 180' Feet of Gas In Pipe 1,000 Flush Tool? NO

Rec. _____	Feet Of _____	% gas _____	% oil _____	% water _____	% mud _____
Rec. _____	Feet Of _____	% gas _____	% oil _____	% water _____	% mud _____
Rec. <u>180'</u>	Feet Of <u>60cm</u>	<u>35</u> % gas	<u>5</u> % oil	% water _____	<u>60</u> % mud
Rec. _____	Feet Of _____	% gas _____	% oil _____	% water _____	% mud _____
Rec. _____	Feet Of _____	% gas _____	% oil _____	% water _____	% mud _____

BHT 108 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 6500 ppm System  
 (A) Initial Hydrostatic Mud 2323 PSI AK1 Recorder No. 13277 Range 4125  
 (B) First Initial Flow Pressure 109 PSI @ (depth) 4769 w/Clock No. 27594  
 (C) First Final Flow Pressure 109 PSI AK1 Recorder No. 11038 Range 5075  
 (D) Initial Shut-In Pressure 1310 PSI @ (depth) 4874 w/Clock No. 25814  
 (E) Second Initial Flow Pressure 136 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
 (F) Second Final Flow Pressure 136 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_  
 (G) Final Shut-In Pressure 1008 PSI Initial Opening 30 Test X 600  
 (H) Final Hydrostatic Mud 2298 PSI Initial Shut-In 60 Jars X 200

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 60 Safety Joint X 50  
 Final Shut-In 60 Straddle \_\_\_\_\_  
 Circ. Sub \_\_\_\_\_  
 Sampler \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Other \_\_\_\_\_  
 TOTAL PRICE \$ 850

Approved By [Signature]  
 Our Representative Tom Horvick

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name JOHN HERD #1 Test No. 2 Date 11/16/92  
Company CHARTER PRODUCTION COMPANY Zone MARMATON  
Address 224 EAST DOUGLAS #400 WICHITA KS 67202 Elevation 1896  
Co. Rep./Geo. ROBERT SMITH Cont. EAGLE DRLG RIG #1 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 5 Twp. 33S Rge. 20W Co. COMANCHE State KS

Interval Tested 4950-5030 Drill Pipe Size 4.5" XH  
Anchor Length 80 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 4945 Drill Collar - 2.25 Ft. Run 241  
Bottom Packer Depth 4950 Mud Wt. 9.1 lb/Gal.  
Total Depth 5030 Viscosity 46 Filtrate 9.6

Tool Open @ 8:50 PM Initial Blow SURFACE BLOW - BUILT TO 1"

Final Blow SURFACE BLOW - BUILT TO 3"

Recovery - Total Feet 50 Flush Tool? NO

Rec. 50 Feet of DRILLING MUD WITH SCUM OF OIL  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 110 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 8000 ppm System

(A) Initial Hydrostatic Mud 2408.9 PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure 86.3 PSI @ (depth) 4954 w / Clock No. 27594

(C) First Final Flow Pressure 86.3 PSI AK1 Recorder No. 11038 Range 5075

(D) Initial Shut-in Pressure 354.7 PSI @ (depth) 5027 w / Clock No. 25814

(E) Second Initial Flow Pressure 86.3 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

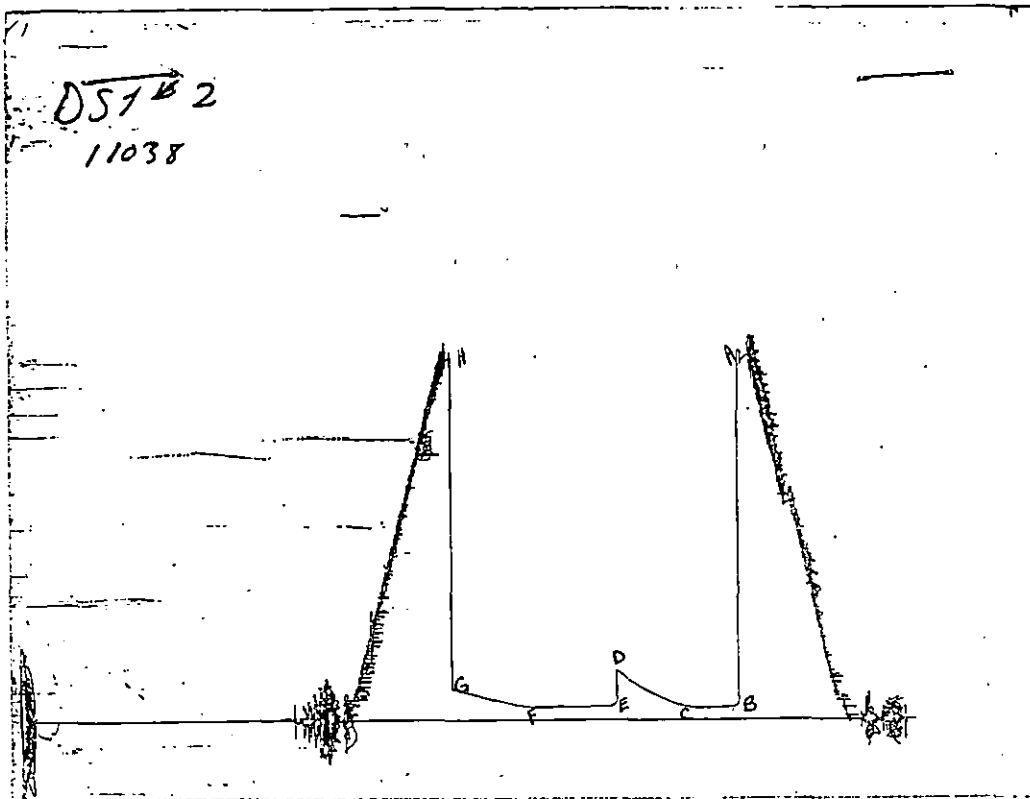
(F) Second Final Flow Pressure 86.3 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 233.7 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2375.9 PSI Initial Shut-in 60 Final Shut-in 60

Our Representative TOM HORACEK

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2400	2408.9
(B) FIRST INITIAL FLOW PRESSURE	84	86.3
(C) FIRST FINAL FLOW PRESSURE	84	86.3
(D) INITIAL CLOSED-IN PRESSURE	350	354.7
(E) SECOND INITIAL FLOW PRESSURE	84	86.3
(F) SECOND FINAL FLOW PRESSURE	84	86.3
(G) FINAL CLOSED-IN PRESSURE	230	233.7
(H) FINAL HYDROSTATIC MUD	2374	2375.9

# TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 4849

Well Name & No. John Herd #1 Test No. #2 Date 11-16-92  
Company Charter Production Company Zone Tested Marmaton  
Address 224 E. Douglas St. 400 Wichita, KS 67202 Elevation 1896 KS  
Co. Rep./Geo. Robert Smith Cont. Eagle Drly #1 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 5 Twp. 33 Rge. 20 Co. Comanche State Ks.  
No. of Copies \_\_\_\_\_ Distribution Sheet \_\_\_\_\_ Yes  No  Turnkey \_\_\_\_\_ Yes  No  Evaluation \_\_\_\_\_

Interval Tested 4950-5030 Drill Pipe Size 4.5 x-Hole  
Anchor Length 80' Top Choke - 1" \_\_\_\_\_ Bottom Choke - 3/4" \_\_\_\_\_  
Top Packer Depth 4945 Hole Size - 7 7/8" \_\_\_\_\_ Rubber Size - 6 3/4" \_\_\_\_\_  
Bottom Packer Depth 4950 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Total Depth 5030 Drill Collar - 2.25 Ft. Run 241'  
Mud Wt. 9.1 lb/gal. Viscosity 46 Filtrate 9.6  
Tool Open @ 8:50 pm Initial Blow surface blow - built to lin.

Final Blow Surface blow - built to 3 in.

Recovery - Total Feet	Feet of Gas in Pipe	Flush Tool?
<u>50'</u>		<u>NO</u>

Rec.	Feet Of	%gas	%oil	%water	%mud
<u>50'</u>	<u>Drly mud w/seum oil</u>				

BHT 110' °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 8000 ppm System  
(A) Initial Hydrostatic Mud 2400 PSI AK1 Recorder No. 13277 Range 4125  
(B) First Initial Flow Pressure 84 PSI @ (depth) 4954 w/Clock No. 27594  
(C) First Final Flow Pressure 84 PSI AK1 Recorder No. 11038 Range 5075  
(D) Initial Shut-in Pressure 350 PSI @ (depth) 5027 w/Clock No. 25814  
(E) Second Initial Flow Pressure 84 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
(F) Second Final Flow Pressure 84 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_  
(G) Final Shut-in Pressure 230 PSI Initial Opening 30 Test  200  
(H) Final Hydrostatic Mud 2374 PSI Initial Shut-in 60 Jars  200

Final Flow 60 Safety Joint  50  
Final Shut-in 60 Straddle \_\_\_\_\_  
Circ. Sub \_\_\_\_\_  
Sampler \_\_\_\_\_  
Extra Packer \_\_\_\_\_  
Other \_\_\_\_\_

Approved By [Signature]  
Our Representative Tom Horvack



# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name JOHN HERD #1 Test No. 3 Date 11/17/92  
Company CHARTER PRODUCTION COMPANY Zone MORROW  
Address 224 EAST DOUGLAS #400 WICHITA KS 67202 Elevation 1896  
Co. Rep./Geo. ROBERT SMITH Cont. EAGLE DRLG RIG #1 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 5 Twp. 33S Rge. 20W Co. COMANCHE State KS

Interval Tested 5190-5220 Drill Pipe Size 4.5" XH  
Anchor Length 30 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 5185 Drill Collar - 2.25 Ft. Run 300  
Bottom Packer Depth 5190 Mud Wt. 9.1 lb/Gal.  
Total Depth 5220 Viscosity 50 Filtrate 8.8

Tool Open @ 9:25 PM Initial Blow STRONG BLOW - BUILT TO BOTTOM OF BUCKET IN 30 SECONDS  
ISI: BLED OFF BLOW - WEAK BLOW BUILT TO 3"  
Final Blow BOTTOM OF BUCKET AS TOOL OPENED - GAS TO SURFACE IN  
7 MINUTES - GAUGED @3.71 MCF/DAU

Recovery - Total Feet 70 Flush Tool? NO

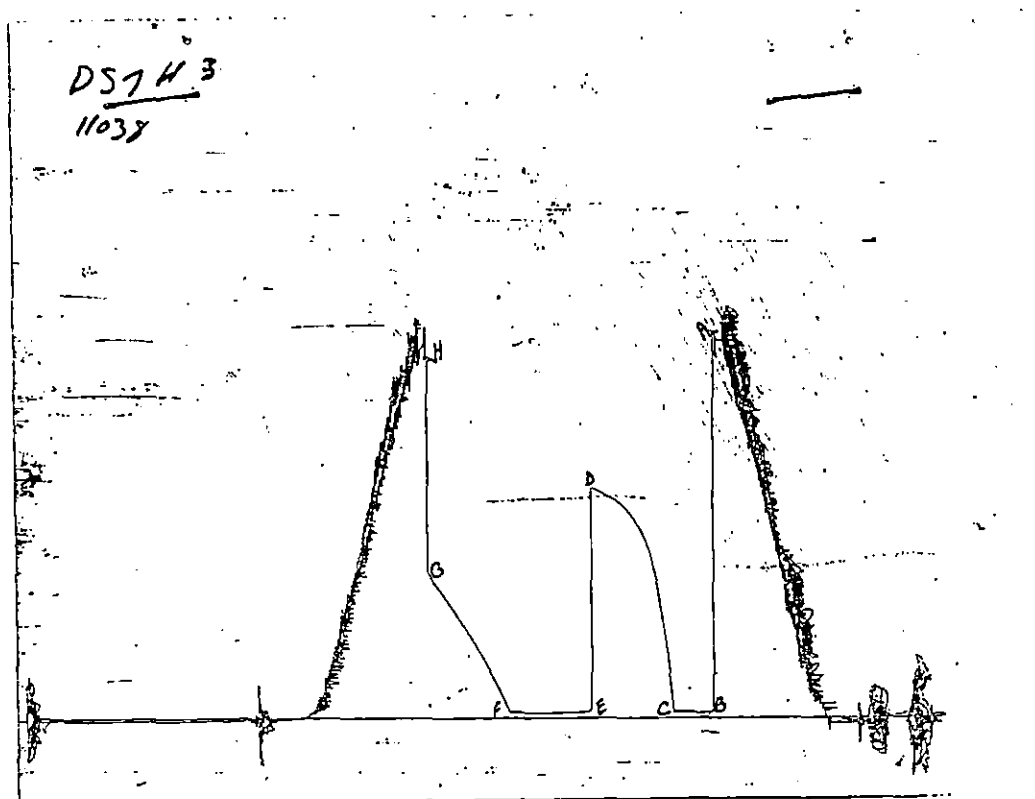
Rec. 70 Feet of GSY DRILLING MUD WITH TRACE OF OIL-5%GAS/2%OIL/93%MUD  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 116 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 8000 ppm System

(A) Initial Hydrostatic Mud 2520.3 PSI AK1 Recorder No. 13277 Range 4125  
(B) First Initial Flow Pressure 28.9 PSI @ (depth) 5194 w / Clock No. 27594  
(C) First Final Flow Pressure 44.5 PSI AK1 Recorder No. 11038 Range 5075  
(D) Initial Shut-in Pressure 1540.3 PSI @ (depth) 5217 w / Clock No. 25814  
(E) Second Initial Flow Pressure 44.5 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
(F) Second Final Flow Pressure 44.5 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_  
(G) Final Shut-in Pressure 999.7 PSI Initial Opening 30 Final Flow 60  
(H) Final Hydrostatic Mud 2510.3 PSI Initial Shut-in 60 Final Shut-in 60

Our Representative TOM HORACEK

# CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2516	2520.3
(B) FIRST INITIAL FLOW PRESSURE	27	28.9
(C) FIRST FINAL FLOW PRESSURE	41	44.5
(D) INITIAL CLOSED-IN PRESSURE	1536	1540.3
(E) SECOND INITIAL FLOW PRESSURE	41	44.5
(F) SECOND FINAL FLOW PRESSURE	41	44.5
(G) FINAL CLOSED-IN PRESSURE	995	999.7
(H) FINAL HYDROSTATIC MUD	2503	2510.3

# GAS VOLUME REPORT

CHARTER PRODUCTION COMPANY

JOHN HERD #1

DST # 3

MIN	PSIG	ORIFICE	MCF/D	MIN	PSIG	ORIFICE	MCF/D
				15	5	0.25	3.71
				25	8	0.25	4.76
				35	6	0.25	4.12
				45	5	0.25	3.71
				55	5	0.25	3.71
				60	5	0.25	3.71

Remarks: GAS TO SURFACE IN 7 MINUTES / GAS WILL BURN

# TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 4850

Well Name & No. <u>John Heed #1</u>		Test No. <u>#3</u>	Date <u>11-17-92</u>
Company <u>Charter Production Company</u>		Zone Tested <u>Morrow</u>	
Address <u>224 E Douglas St. 400 Wichita, KS 67202</u>		Elevation <u>1896</u> <u>KB</u>	
Co. Rep./Geo. <u>Robert Smith</u>		cont. <u>Eagle Dily #1</u> Est. Ft. of Pay _____	
Location: Sec. <u>5</u>	Twp. <u>33</u>	Rge. <u>20</u>	Co. <u>Comanche</u> State <u>Ks</u>
No. of Copies _____	Distribution Sheet _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Turnkey _____ Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Evaluation _____

Interval Tested <u>5190-5220</u>	Drill Pipe Size <u>4.5 X-Hole</u>
Anchor Length <u>30'</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>5185</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>5190</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>5220</u>	Drill Collar — 2.25 Ft. Run <u>300'</u>
Mud Wt. <u>9.1</u> lb/gal.	Viscosity <u>50</u> Filtrate <u>8.8</u>

Tool Open @ 9:25 pm Initial Blow Strong blow - built to bottom of bucket 30 sec.  
ISI - Blod of blow - weak blow built to - 3 in.  
 Final Blow Bottom of bucket as tool opened (Gas to surface 7 min)  
Gauged @ 3.71 MCF

Recovery — Total Feet <u>70'</u>	Feet of Gas In Pipe _____	Flush Tool? <u>NO</u>
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. <u>70'</u> Feet Of <u>Gassy Dily mud w/trace oil</u>	<u>5</u> %gas <u>2</u> %oil _____ %water <u>93</u> %mud	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT 116 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 8000 ppm System

(A) Initial Hydrostatic Mud <u>2516</u> PSI	AK1 Recorder No. <u>13277</u>	Range <u>4125</u>
(B) First Initial Flow Pressure <u>27</u> PSI	@ (depth) <u>5194</u>	w/Clock No. <u>27594</u>
(C) First Final Flow Pressure <u>41</u> PSI	AK1 Recorder No. <u>11038</u>	Range <u>5075</u>
(D) Initial Shut-In Pressure <u>1536</u> PSI	@ (depth) <u>5217</u>	w/Clock No. <u>25814</u>
(E) Second Initial Flow Pressure <u>41</u> PSI	AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure <u>41</u> PSI	@ (depth) _____	w/Clock No. _____
(G) Final Shut-In Pressure <u>995</u> PSI	Initial Opening <u>30</u>	Test <input checked="" type="checkbox"/> <u>700</u>
(H) Final Hydrostatic Mud <u>2503</u> PSI	Initial Shut-In <u>60</u>	Jars <input checked="" type="checkbox"/> <u>200</u>

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 <u>60</u>	Safety Joint <input checked="" type="checkbox"/> <u>50</u>
Final Shut-In <u>60</u>	Straddle _____
	Circ. Sub _____
	Sampler _____
	Extra Packer _____
	Other _____

Approved By [Signature]  
 Our Representative Tom Horvack

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name JOHN HERD #1 Test No. 4 Date 11/18/92  
Company CHARTER PRODUCTION COMPANY Zone MORROW  
Address 224 EAST DOUGLAS #400 WICHITA KS 67202 Elevation 1896  
Co. Rep./Geo. ROBERT SMITH Cont. EAGLE DRLG RIG #1 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 5 Twp. 33S Rge. 20W Co. COMANCHE State KS

Interval Tested 5188-5235 Drill Pipe Size 4.5" XH  
Anchor Length 47 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 5183 Drill Collar - 2.25 Ft. Run 270  
Bottom Packer Depth 5188 Mud Wt. 9.1 lb/Gal.  
Total Depth 5235 Viscosity 50 Filtrate 8.8

Tool Open @ 12:15 PM Initial Blow STRONG BLOW - BUILT TO BOTTOM OF BUCKET IN 30 SECONDS  
ISI: BLED OFF BLOW - WEAK BLOW - BUILT TO 3.5"  
Final Blow STRONG BLOW - BUILT TO BOTTOM OF BUCKET IN 5 MINUTES  
FSI: BLED OFF BLOW - WEAK BLOW - BUILT TO 3"

Recovery - Total Feet 680 Flush Tool? NO

Rec. 3000 Feet of GAS IN PIPE  
Rec. 135 Feet of GSY OIL CUT MUD (TRACE OF OIL) - 5% GAS / 2% OIL / 93% MUD  
Rec. 545 Feet of GSY SALT WATER  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 116 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
R/W 0.45 @ 70 °F Chlorides 15000 ppm Recovery Chlorides 8000 ppm System

(A) Initial Hydrostatic Mud 2520.3 PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure 141.5 PSI @ (depth) 5192 w / Clock No. 27594

(C) First Final Flow Pressure 221.7 PSI AK1 Recorder No. 11038 Range 5075

(D) Initial Shut-in Pressure 1765.9 PSI @ (depth) 5232 w / Clock No. 25814

(E) Second Initial Flow Pressure 263.8 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

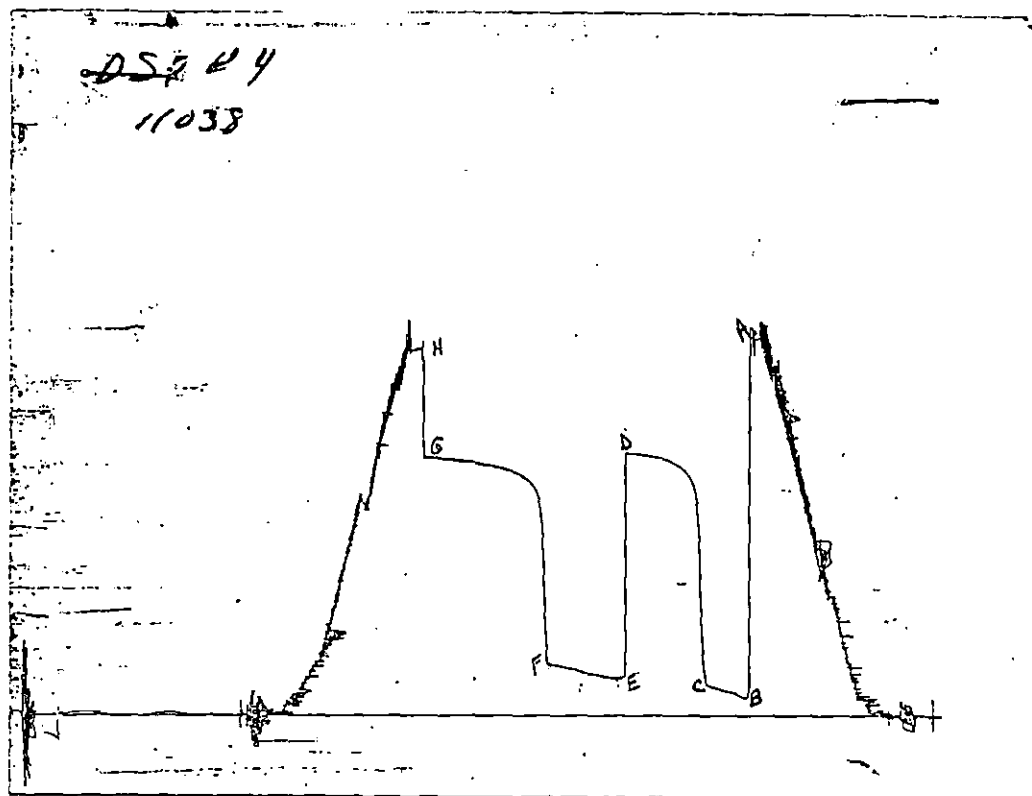
(F) Second Final Flow Pressure 354.7 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 1740.5 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2499.8 PSI Initial Shut-in 60 Final Shut-in 90

TOM HORACEK

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2516	2520.3
(B) FIRST INITIAL FLOW PRESSURE	136	141.5
(C) FIRST FINAL FLOW PRESSURE	217	221.7
(D) INITIAL CLOSED-IN PRESSURE	1763	1765.9
(E) SECOND INITIAL FLOW PRESSURE	257	263.8
(F) SECOND FINAL FLOW PRESSURE	350	354.7
(G) FINAL CLOSED-IN PRESSURE	1738	1740.5
(H) FINAL HYDROSTATIC MUD	2490	2499.8

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 4951

Well Name & No. John Heed #1 Test No. #4 Date 11-18-92  
Company Charter Production Company Zone Tested Morrow  
Address 224 E. Douglas St. 400 Wichita Ks 67202 Elevation 1896 KB  
Co. Rep./Geo. Robert Smith cont. Cagle Drlg #1 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 5 Twp. 33 Rge. 20 Co. Comanche State Ks.  
No. of Copies \_\_\_\_\_ Distribution Sheet \_\_\_\_\_ Yes  No Turnkey \_\_\_\_\_ Yes  No \_\_\_\_\_ Evaluation \_\_\_\_\_

Interval Tested 5188-5235 Drill Pipe Size 4.5 X-Hole  
Anchor Length 47' Top Choke — 1" \_\_\_\_\_ Bottom Choke — 3/4" \_\_\_\_\_  
Top Packer Depth 5183 Hole Size — 7 7/8" \_\_\_\_\_ Rubber Size — 6 3/4" \_\_\_\_\_  
Bottom Packer Depth 5188 Wt. Pipe I.D. — 2.7 Ft. Run \_\_\_\_\_  
Total Depth 5235 Drill Collar — 2.25 Ft. Run 270'  
Mud Wt. 9.1 lb/gal. Viscosity 50 Filtrate 8.8

Tool Open @ 12:15 pm Initial Blow Strong blow - built to bottom of bucket 30 sec.  
ISI - Bled off blow - weak blow - built to 3 1/2 in.  
Final Blow Strong blow - built to bottom of bucket 5 min.  
FSI - Bled off blow - weak blow - built to 3 in.

Recovery — Total Feet 680' Feet of Gas In Pipe 3000 Flush Tool? NO

Rec.	Feet Of	%gas	%oil	%water	%mud	
Rec. <u>135'</u>	Feet Of <u>60cm (trace oil)</u>	5	%gas <u>2</u>	%oil <u>2</u>	%water <u>93</u>	%mud
Rec. <u>545</u>	Feet Of <u>65W</u>	%gas	%oil	%water	%mud	
Rec. _____	Feet Of _____	%gas	%oil	%water	%mud	
Rec. _____	Feet Of _____	%gas	%oil	%water	%mud	

BHT 116 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW .45 @ 70 °F Chlorides 15000 ppm Recovery Chlorides 8000 ppm System

(A) Initial Hydrostatic Mud 2516 PSI AK1 Recorder No. 13277 Range 4125  
(B) First Initial Flow Pressure 136 PSI @ (depth) 5192 w/Clock No. 27594  
(C) First Final Flow Pressure 217 PSI AK1 Recorder No. 11038 Range 5075  
(D) Initial Shut-In Pressure 1763 PSI @ (depth) 5232 w/Clock No. 25814  
(E) Second Initial Flow Pressure 257 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
(F) Second Final Flow Pressure 350 <sup>3547</sup> PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_  
(G) Final Shut-In Pressure 1738 PSI Initial Opening 30 Test  700  
(H) Final Hydrostatic Mud 2490 PSI Initial Shut-In 60 Jars  200

Final Flow 60 Safety Joint  50  
Final Shut-In 90 Straddle \_\_\_\_\_  
Circ. Sub \_\_\_\_\_  
Sampler \_\_\_\_\_

Approved By [Signature]  
Our Representative Tom Horvack  
Extra Packer \_\_\_\_\_  
Other \_\_\_\_\_

TOTAL PRICE \$ 950.00



INVOICE

HALLIBURTON SERVICES

A Halliburton Company

INVOICE NO.	DATE
253741	11/20/1992

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER
HERD 1-5		COMANCHE		KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE		TICKET DATE	
PRATT	EAGLE DRILLING RIG 1	PLUG TO ABANDON		11/20/1992	
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
155799	EDWARD L WOODY			COMPANY TRUCK	42986

CHARTER PRODUCTION  
224 E. DOUGLAS, SUITE 400  
WICHITA, KS 67202

DIRECT CORRESPONDENCE TO:  
FIRST OKLAHOMA TOWER  
210 WEST PARK AVENUE  
SUITE 2050  
OKLAHOMA CITY, OK 73102-5601

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
<b>PRICING AREA - EASTERN AREA 1</b>					
000-117	MILEAGE	58	MI	2.60	150.80
		1	UNT		
090-910	MISCELLANEOUS PUMPING JOB	1	TRK	395.00	395.00
504-308	STANDARD CEMENT	81	SK	6.56	531.36
506-105	POZMIX A	3996	LB	.052	207.79
506-121	HALLIBURTON-GEL 2%	2	LB	.00	N/C
507-277	HALLIBURTON-GEL BENTONITE	5	SK	14.75	73.75
500-207	BULK SERVICE CHARGE	145	CFT	1.15	166.75
500-306	MILEAGE CMTG MAT DEL OR RETURN	356.87	TMI	.80	285.50
INVOICE SUBTOTAL					1,810.95
DISCOUNT-(BID)					452.74-
INVOICE BID AMOUNT					1,358.21
DEC 1 1 CONFIDENTIAL					
RELEASED FEB 14 1995 FROM CONFIDENTIAL					
INVOICE TOTAL - PLEASE PAY THIS AMOUNT					\$1,358.21

**TERMS** INVOICES PAYABLE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF INVOICE. UPON CUSTOMER'S DEFAULT IN PAYMENT OF CUSTOMER'S ACCOUNT BY THE LAST DAY OF THE MONTH FOLLOWING THE MONTH IN WHICH THE INVOICE IS DATED, CUSTOMER AGREES TO PAY INTEREST THEREON AFTER DEFAULT AT THE HIGHEST LAWFUL CONTRACT RATE APPLICABLE BUT NEVER TO EXCEED 18% PER ANNUM. IN THE EVENT IT BECOMES NECESSARY TO EMPLOY AN ATTORNEY TO ENFORCE COLLECTION OF SAID ACCOUNT, CUSTOMER AGREES TO PAY ALL COLLECTION COSTS AND ATTORNEY FEES IN THE AMOUNT OF 20% OF THE AMOUNT OF THE UNPAID ACCOUNT.





NOV 16 1992  
**The Western Company  
 of North America**

REMIT TO: P.O. BOX 911543  
 DALLAS, TX 75391-1543

INVOICE NO. 409364	YOUR RECEIPT NO. 225875	DATE 11/10/92
YOUR ORDER NO.		
16461	1235	

CHARTER PRODUCTION CO.  
 224 E. DOUGLAS #400  
 WICHITA KS 67202

SERVICES FROM OUR STATION AT WOODWARD CEMENTING	OUR ENGINEER GRIFFITH	SIGNED FOR YOU BY STEINERT
FOR SERVICING WELL NAME HERD #1-5	COUNTY COMANCHE	STATE KS 15

FEDERAL I.D. NO. C 75-0763484

PRODUCT CODE	DESCRIPTION	UNIT OF MEASURE	QUANTITY	LIST PRICE/UNIT	GROSS AMOUNT	PERCENT DISC.	NET AMOUNT
K1005	MILEAGE CHARGE, PER UNIT	MILE	50.0	2.700	135.00	42.00	78.30
K1025	MILEAGE AUTO/PICK-UP/TREATING VAN	MILE	50.0	1.380	69.00	42.00	40.02
F0035	CEMENT CASING, 501 - 1000'	BHRS	1.0	700.000	700.00	42.00	406.00
M1005	BULK MATERIALS SVC CHG-LAND JOBS	CU FT	277.0	1.230	340.71	42.00	197.61
M2305	DELIVERY CHG BULK MATLS	TONMI	618.0	.820	506.76	42.00	293.92
P392H	PREM PLUS CMT, WOODWARD, OK	SACK	100.0	9.100	910.00	42.00	527.80
P452H	PACSETER LITE II, WOODWARD, OK	SACK	150.0	8.500	1275.00	42.00	739.50
P0523	CALCIUM CHLORIDE-OKLAHOMA	LB	100.0	.360	36.00	42.00	20.88
P0823	SODIUM CHLORIDE-OKLAHOMA	LB	500.0	.110	55.00	42.00	31.90
P1715	CELLO-SEAL	LB	19.0	1.790	34.01	42.00	19.73
P3625A	CMT PLUG, RUBBER, BOTTOM 8-5/8"	EACH	1.0	155.000	155.00	42.00	89.90
17068	CENTRALIZER W/ PIN 8 5/8"	EACH	1.0	64.600	64.60	42.00	37.47
17120	CEMENT BASKET, SLIP ON 8 5/8"	EACH	1.0	233.000	233.00	42.00	135.14
17208	ALUM BAFFLE PLATE SLIP ON 8 5/8"	EACH	1.0	43.000	43.00	42.00	24.94
17135	STOP COLLARS 8 5/8"	EACH	1.0	21.500	21.50	42.00	12.47
	SUB TOTAL				4578.58		2,655.58

DEC 11 1992  
 CONFIDENTIAL

APPROVED  
 RELEASED  
 11 14 1992

FROM CONFIDENTIAL

DEC 14 1992  
 PRESERVATION DIV  
 Wichita, Kansas

PHONE: (713) 629-2600

TERMS: NET 30 DAYS

**PAY THIS AMOUNT** →

2,655.58