

FORM MUST BE TYPED

ORIGINAL

SIDE ONE

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

Operator: License # 9860

Name: Castle Resources Inc.

Address 1200 E. 27, Suite C

City/State/Zip Hays, KS 67601-2120

Purchaser: _____

Operator Contact Person: Jerry Green

Phone (913) 625-5155

Contractor: Name: Emphasis Oil Operations

License: 8241

Wellsite Geologist: Jerry Green

Designate Type of Completion
 New Well Re-Entry Workover

Oil SVD S10W Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, MSW, 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/SVD
 Plug Back PBTD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SVD or Inj?) Docket No. _____

9/3/91 9/11/91 10/4/91
Spud Date Date Reached TD Completion Date

API No. 15- 101-21,599-00-00

County Lane

170 s
C - SE - NE - SE Sec. 23 Twp. 18s Rge. 28 E W

1650 Feet from S/N (circle one) Line of Section

330 Feet from E/W (circle one) Line of Section

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

Lease Name Boomhower Well # 1

Field Name _____

Producing Formation Lansing-Kansas City & Fort Scott

Elevation: Ground 2674 KB 2679

Total Depth 4560(Rig)4561(Log) PBTD 4518

Amount of Surface Pipe Set and Cemented at 230 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from TD

feet depth to surface w/ 435 sx cat.

Drilling Fluid Management Plan ALT 2 9/24/92 JAH
(Data must be collected from the Reserve Pit)

Chloride content 12,000 ppm Fluid volume 300 bbls

Deswating method used Allowed to dry- backfill

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W _____

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 Galen D. McFarland

Title Chief Operating Officer Date 8/3/92

Subscribed and sworn to before me this 3 day of August 1992.

Notary Public Chris Schumacher

Date Commission Expires 5-8-96

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
RECEIVED Distribution
STATE CORPORATION COMMISSION SVD/Rep _____ NGPA
RGS _____ Plug _____ Other
(Specify)
AUG 5 1992

CHRIS SCHUMACHER
State of Kansas
My Appt. Exp. 5-8-96

CONSERVATION DIVISION
Wichita, Kansas ACD-1 (7-91)

SIDE TD

Operator Name Castle Resources Inc. Lease Name Boomhower Well # 1

Sec. 23 Twp. 18s Rge. 28 East West
 County Lane

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 (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Heebner	3888	-1209
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lansing-KC	3928	-1249
List All E.Logs Run:		Stark Shale	4199	-1520
Compensated density, Radiation guard, Dual induction, & Gamma-ray cement bond		B-KC	4282	-1603
		Fort Scott	4448	-1769
		Mississippi	4530	-1850
		Mississippi Dolomite	4538	-1859
		TD	4561	-1882

CASING RECORD <input type="checkbox"/> New <input checked="" type="checkbox"/> 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	12 1/4	8 5/8	28	230	60/40 Poz	150	2% gel 3% cc
Production	7 7/8	4 1/2	9.5	4557	Econolite Standard	435	5% gilsonite 1/8# flocele 5% calseal 18% salt

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> 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
4	4170-4171 J zone of L-KC	250 gal 15% NE acid & 2 gal EE acid	4170-71
4	4173 1/2-4175 1/2 J zone of L-KC	250 gal 15% MCA acid 2000 gal Polymer & 50 sks Micro Matrix cement	4173.5-75.5
4	4286-4290 Pleasanton	250 gal 15% MCA acid	4286-90
4	4450-4453 Fort Scott Plug at 4518	500 gal 20% SGA acid 750 gal 15% SGA acid 250 gal 20% EE acid	4450-53
TUBING RECORD			
	Size	Set At	Packer At
	2 3/8	4488	
Date of First Resumed Production, SMD or Inj.		Producing Method	
10/4/91		<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)	
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.
	10		50
Gas-Oil Ratio		Gravity	
		38	

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Comingled

Production Interval: 4170-71, 4286-90, 4450-53

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Drill-Stem Test Data

Well Name BOOMHOWER #1 Test No. 1 Date 9/8/91
Company CASTLE RESOURCES Zone Tested LKC
Address BANK IV SUITE 3 HAYS KS Elevation 2679
Co. Rep./Geo. MR JERRY GREEN Cont. EMPHASIS RIG #5 Est. Ft. of Pay _____
Location: Sec. 23 Twp. 18S Rge. 28W Co. LANE State KS

Interval Tested 4160-4189 Drill Pipe Size 4.5 XH
Anchor Length 29 Wt. Pipe I.D. - 2.7 Ft. Run 636
Top Packer Depth 4155 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 4160
Total Depth 4189

Mud Wt. 9.1 lb / gal. Viscosity 45 Filtrate 10

Tool Open @ 8:00 PM Initial Blow OFF BOTTOM IN 9 MINUTES

Final Blow OFF BOTTOM IN 17 MINUTES

Recovery - Total Feet 797 Flush Tool? NO

Rec. 70 Feet of GAS IN PIPE

Rec. 40 Feet of GASSY OIL-1%GAS/99%OIL

Rec. 240 Feet of GSY OIL & MUD CUT WATER-1%GAS/2%OIL/92%WTR/5%MUD

Rec. 517 Feet of MUD CUT WATER-95%WTR/5%MUD

Rec. _____ Feet of _____

BHT 124 °F Gravity 42 °API @ 80 °F Corrected Gravity 40 °API

RW 0.13 @ 78 °F Chlorides 45000 ppm Recovery Chlorides 5400 ppm System

(A) Initial Hydrostatic Mud 2020.3 PSI Ak1 Recorder No. 13308 Range 4700

(B) First Initial Flow Pressure 40.6 PSI @ (depth) 4162 w/Clock No. 27573

(C) First Final Flow Pressure 220.1 PSI Ak1 Recorder No. 2023 Range 4000

(D) Initial Shut-in Pressure 780.4 PSI @ (depth) 4184 w/Clock No. 8376

(E) Second Initial Flow Pressure 240.6 PSI Ak1 Recorder No. _____ Range _____

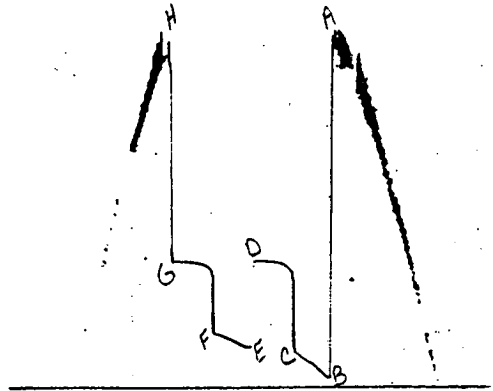
(F) Second Final Flow Pressure 350.9 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-in Pressure 780.4 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1987.6 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative MARK HERSKOWITZ TOTAL PRICE \$ 550

13308
DST 1



POINT This is an actual photograph of recorder chart PRESSURE

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2018	2020.3
(B) FIRST INITIAL FLOW PRESSURE	33	40.6
(C) FIRST FINAL FLOW PRESSURE	215	220.1
(D) INITIAL CLOSED-IN PRESSURE	761	780.4
(E) SECOND INITIAL FLOW PRESSURE	225	240.6
(F) SECOND FINAL FLOW PRESSURE	328	350.9
(G) FINAL CLOSED-IN PRESSURE	761	780.4
(H) FINAL HYDROSTATIC MUD	1988	1987.6

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

No 3864

Test Ticket

Well Name & No. BOONHOWER 1^{II} Test No. 1 Date 9-8-91
Company CASTLE RES INC Zone Tested LAN-KC
Address BANK IV SUITE C. HAYS Elevation 2079
Co. Rep./Geo. JERRY GREEN Cont. EMPHOSIS DIGE Est. Ft. of Pay _____
Location: Sec. 23 Twp. 18S Rge. 28W Co. LANE State KS
No. of Copies _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 4160-4189 Drill Pipe Size 4 1/2 XH
Anchor Length 29 Top Choke — 1" _____ Bottom Choke — 1/4" _____
Top Packer Depth 4155 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth 4160 Wt. Pipe I.D. — 2.7 Ft. Run 6.36
Total Depth 4189 Drill Collar — 2.25 Ft. Run _____
Mud Wt. 9.1 LCM 1^{II} lb/gal. Viscosity 45 Filtrate 10.0
Tool Open @ 800 PM Initial Blow OFF BOTTOM IN 9 MIN

Final Blow OFF BOTTOM IN 17 MIN

Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?
<u>797</u>	<u>70</u>	<u>—</u>
Rec. <u>40</u> Feet Of <u>GAS OIL</u>	<u>1</u> % gas <u>99</u> % oil	% water _____ % mud _____
Rec. <u>240</u> Feet Of <u>GAS OIL MUD WATER</u>	% gas <u>2</u> % oil <u>93</u>	% water <u>5</u> % mud _____
Rec. <u>517</u> Feet Of <u>MUD WATER</u>	% gas _____ % oil <u>95</u>	% water <u>5</u> % mud _____
Rec. _____ Feet Of _____	% gas _____ % oil _____	% water _____ % mud _____
Rec. _____ Feet Of _____	% gas _____ % oil _____	% water _____ % mud _____

BHT 124 °F Gravity 47 °API @ 80 °F Corrected Gravity 40 °API
RW 0.13 @ 78 °F Chlorides 45000 ppm Recovery Chlorides 5400 ppm System

(A) Initial Hydrostatic Mud 2018 PSI AK1 Recorder No. 13308 Range 4700
(B) First Initial Flow Pressure 33 PSI @ (depth) 4162 w/Clock No. 27573
(C) First Final Flow Pressure 215 PSI AK1 Recorder No. ~~3023~~ Range ~~4700~~
(D) Initial Shut-In Pressure 761 PSI @ (depth) _____ w/Clock No. _____
(E) Second Initial Flow Pressure 225 PSI AK1 Recorder No. 2023 Range 4000
(F) Second Final Flow Pressure 328 PSI @ (depth) 4184 w/Clock No. 8374
(G) Final Shut-In Pressure 79 PSI Initial Opening 30 Test
(H) Final Hydrostatic Mud 1988 PSI Initial Shut-In 30 Jars _____

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 _____
Final Shut-In 30 Straddle _____
Circ. Sub NC
Sampler _____
Extra Packer _____
Other _____
TOTAL PRICE \$ _____

Approved By _____
Our Representative Mark Hershey
Printcraft Printers - Hays, KS

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Drill-Stem Test Data

Well Name BOOMHOWER #1 Test No. 2 Date 9/9/91
Company CASTLE RESOURCES Zone Tested LKC
Address BANK IV SUITE 3 HAYS KS Elevation 2679
Co. Rep./Geo. MR JERRY GREEN Cont. EMPHASIS RIG #5 Est. Ft. of Pay _____
Location: Sec. 23 Twp. 18S Rge. 28W Co. LANE State KS

Interval Tested 4195-4255 Drill Pipe Size 4.5 XH
Anchor Length 60 Wt. Pipe I.D. - 2.7 Ft. Run 636
Top Packer Depth 4190 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 4195
Total Depth 4255

Mud Wt. 9.1 lb / gal. Viscosity 41 Filtrate 12.8

Tool Open @ 2:02 PM Initial Blow WEAK BLOW FOR 18 MINUTES-THEN DIED

Final Blow WEAK SURFACE BLOW IN 3 MINUTES-DIED-FLUSHED TOOL
WEAK BLOW IN 4 MINUTES-DIED

Recovery - Total Feet 30 Flush Tool? YES

Rec. 30 Feet of OIL STAINED MUD-5%OIL/95%MUD

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT 119 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 5200 ppm System

(A) Initial Hydrostatic Mud 2041.5 PSI AK1 Recorder No. 13308 Range 4700

(B) First Initial Flow Pressure 14.5 PSI @ (depth) 4197 w/Clock No. 27573

(C) First Final Flow Pressure 14.5 PSI AK1 Recorder No. 2023 Range 4000

(D) Initial Shut-In Pressure 126.3 PSI @ (depth) 4220 w/Clock No. 8376

(E) Second Initial Flow Pressure 14.5 PSI AK1 Recorder No. _____ Range _____

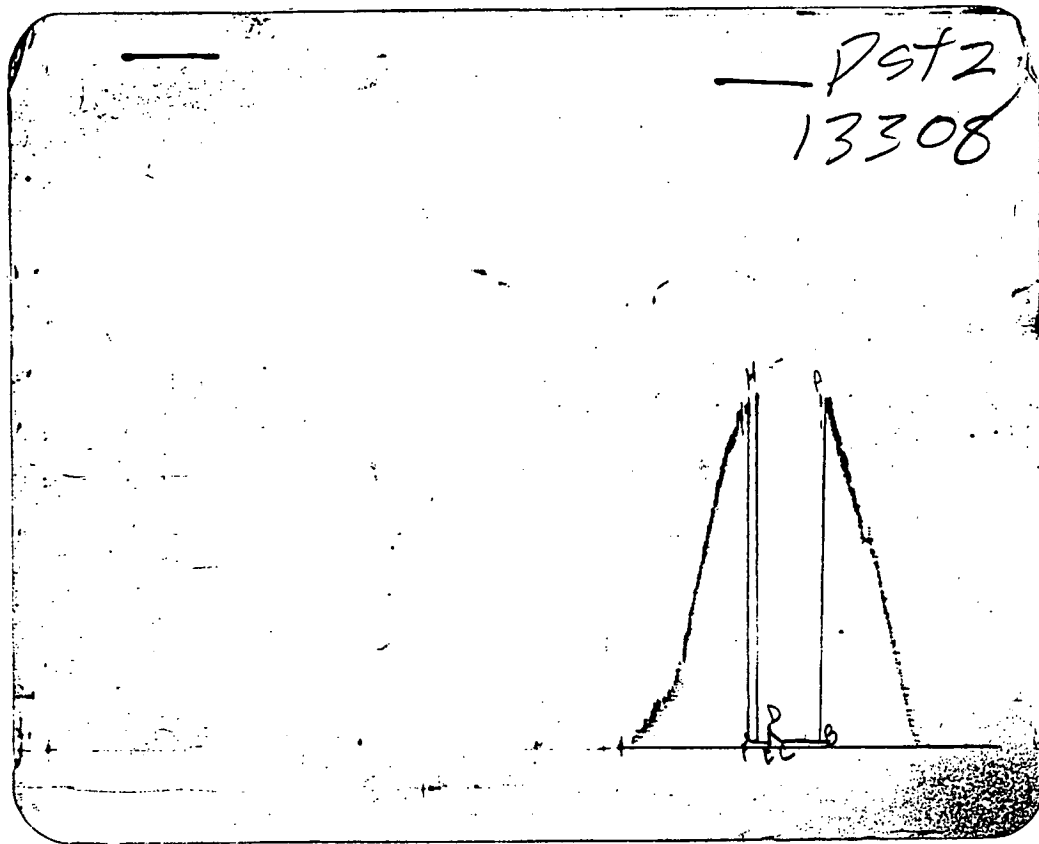
(F) Second Final Flow Pressure 14.5 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-In Pressure _____ PSI Initial Opening 20 Final Flow 10

(H) Final Hydrostatic Mud 2010.3 PSI Initial Shut-In 20 Final Shut-In _____

Our Representative MARK HERSKOWITZ

TOTAL PRICE \$ 550



POINT This is an actual photograph of recorder chart
PRESSURE

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2039	2041.5
(B) FIRST INITIAL FLOW PRESSURE	11	14.5
(C) FIRST FINAL FLOW PRESSURE	11	14.5
(D) INITIAL CLOSED-IN PRESSURE	120	126.3
(E) SECOND INITIAL FLOW PRESSURE	11	14.5
(F) SECOND FINAL FLOW PRESSURE	11	14.5
(G) FINAL CLOSED-IN PRESSURE		
(H) FINAL HYDROSTATIC MUD	2008	2010.3

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Nº 3865

Test Ticket

Well Name & No. BOOMHOWER 1H Test No. 2 Date 9-9-91
 Company CASTLE RES INC Zone Tested LAN-KC
 Address BANK IV SUITE C HAYS Elevation 2679
 Co. Rep./Geo. JERRY GREEN Cont. EMPHASIS Bldg 5 Est. Ft. of Pay _____
 Location: Sec. 23 Twp. 18S Rge. 28W Co. LANE State KS
 No. of Copies _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 4195 - 4255 Drill Pipe Size 4 1/2 XH
 Anchor Length 60 Top Choke - 1" _____ Bottom Choke - 3/4" _____
 Top Packer Depth 4190 Hole Size - 7 7/8" _____ Rubber Size - 6 3/4" _____
 Bottom Packer Depth 4495 Wt. Pipe I.D. - 2.7 Ft. Run 636
 Total Depth 4255 Drill Collar - 2.25 Ft. Run _____
 Mud Wt. 9.1 LCM 1H lb/gal. Viscosity 41 Filtrate 12.8
 Tool Open @ 2:02 PM Initial Blow WEAK Blow 18 MIN DIES

Final Blow WEAK SWP Blow 3 MIN DIES Flush Tool WEAK Blow 4 MIN DIES

Recovery - Total Feet	Feet of Gas In Pipe	Flush Tool?
<u>30</u>	<u>—</u>	<u>2:49</u>
Rec. <u>30</u> Feet Of <u>OIL S. MUD</u>	%gas <u>3</u> %oil _____	%water <u>95</u> %mud _____
Rec. _____ Feet Of _____	%gas _____ %oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____ %oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____ %oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____ %oil _____	%water _____ %mud _____

BHT 119 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 5200 ppm System
 (A) Initial Hydrostatic Mud 2039 PSI AK1 Recorder No. 13308 Range 4700
 (B) First Initial Flow Pressure 11 PSI @ (depth) 4197 w/Clock No. 27573
 (C) First Final Flow Pressure 11 PSI AK1 Recorder No. 2023 Range 4000
 (D) Initial Shut-In Pressure 120 PSI @ (depth) 4220 w/Clock No. 8374
 (E) Second Initial Flow Pressure 11 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 11 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure _____ PSI Initial Opening 20 Test
 (H) Final Hydrostatic Mud 2008 PSI Initial Shut-In 20 Jars _____

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Final Flow 10 Safety Joint _____
 Final Shut-In _____ Straddle _____
 Circ. Sub NC
 Sampler _____

Approved By _____
 Our Representative Mark Hershey

Extra Packer _____
 Other _____
 TOTAL PRICE \$ _____

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name BOOMHOWER #1 Test No. 3 Date 9/10/91
Company CASTLE RESOURCES Zone Tested FT SCOTT
Address BANK IV SUITE 3 HAYS KS Elevation 2679
Co. Rep./Geo. MR JERRY GREEN Cont. EMPHASIS RIG #5 Est. Ft. of Pay 4
Location: Sec. 23 Twp. 18S Rge. 28W Co. LANE State KS

Interval Tested 4435-4480 Drill Pipe Size 4.5 XH
Anchor Length 45 Wt. Pipe I.D. - 2.7 Ft. Run 636
Top Packer Depth 4430 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 4435
Total Depth 4480

Mud Wt. 9.3 lb / gal. Viscosity 50 Filtrate 12

Tool Open @ 2:36 PM Initial Blow GOOD BLOW OFF BOTTOM IN 6 MINUTES

Final Blow GOOD BLOW-OFF BOTTOM IN 3 MINUTES
9" BLOW ON SHUT IN

Recovery - Total Feet 236 Flush Tool? NO

Rec. 1564 Feet of GAS IN PIPE

Rec. 112 Feet of GASSY OIL-5%GAS/95%OIL

Rec. 62 Feet of GASSY OIL CUT MUD-35%GAS/15%OIL/50%MUD

Rec. 62 Feet of GASSY OIL & WATER CUT MUD-5%GAS/5%OIL/30%WTR/60%MUD

Rec. _____ Feet of _____
BHT 122 °F Gravity 44 °API @ 80 °F Corrected Gravity 42 °API

RW _____ @ _____ °F Chlorides 1300 ppm Recovery Chlorides 5200 ppm System

(A) Initial Hydrostatic Mud 2225.6 PSI AK1 Recorder No. 13308 Range 4700

(B) First Initial Flow Pressure 25.3 PSI @ (depth) 4445 w/Clock No. 27573

(C) First Final Flow Pressure 70.8 PSI AK1 Recorder No. 2023 Range 4000

(D) Initial Shut-In Pressure 1151.6 PSI @ (depth) 4475 w/Clock No. 8376

(E) Second Initial Flow Pressure 94.5 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 126.3 PSI @ (depth) _____ w/Clock No. _____

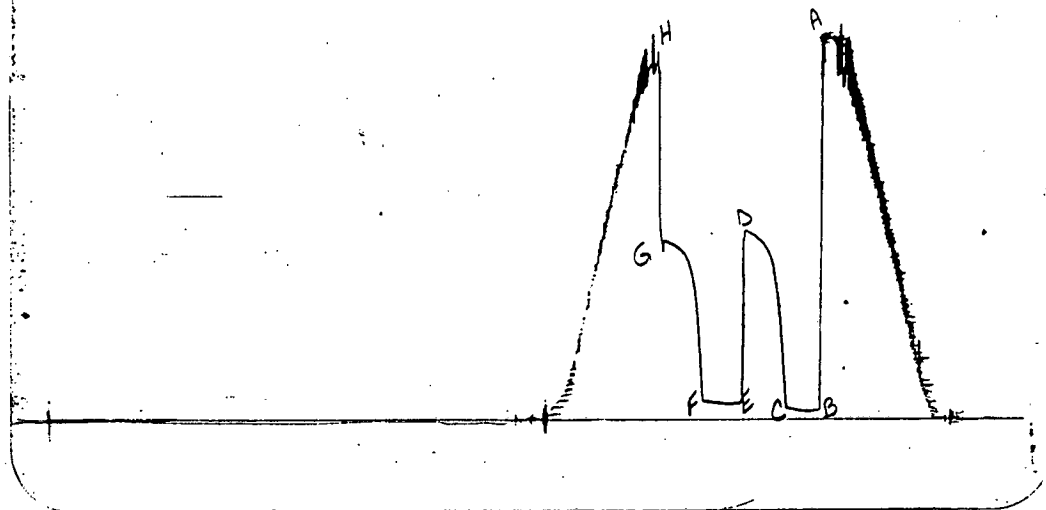
(G) Final Shut-In Pressure 1094.5 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2177.8 PSI Initial Shut-In 30 Final Shut-In 30

Our Representative MARK HERSKOWITZ TOTAL PRICE \$ 550

ORIGINAL

DST 3
13308



POINT

This is an actual photograph of recorder chart
PRESSURE

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2210	2225.6
(B) FIRST INITIAL FLOW PRESSURE	22	25.3
(C) FIRST FINAL FLOW PRESSURE	66	70.8
(D) INITIAL CLOSED-IN PRESSURE	1147	1151.6
(E) SECOND INITIAL FLOW PRESSURE	87	94.5
(F) SECOND FINAL FLOW PRESSURE	120	126.3
(G) FINAL CLOSED-IN PRESSURE	1089	1094.5
(H) FINAL HYDROSTATIC MUD	2170	2177.8

COMPUTER EVALUATION BY TRILOBITE TESTING
 CASTLE RESOURCES INC
 REPORT FOR DST#3 FOR THE BOOMHOWER #1
 23 18S 28W LANE KS

TEST PARAMETERS

ELEVATION:	2679 KB	EST. PAY:	4 FT
DATUM:	-1767	ZONE TESTED:	FT SCOTT
TEST INTERVAL:	4435-4480		
		TIME INTERVALS:	30-30-30-30
RECORDER DEPTH:	4445	VISCOSITY:	2.833479 CP
BOTTOM HOLE TEMP:	122	HOLE SIZE:	7.875 IN

CALCULATIONS

CUBIC FEET OF GAS IN PIPE: 108.5414

TOTAL FEET OF RECOVERY: 236
 BARRELS IN WEIGHT PIPE: 1.652
 GAS OIL RATIO: 65.7 CU.FT./BBL
 BUBBLE POINT PRESSURE: ; 1.407694
 TOTAL BARRELS OF RECOVERY: 1.652

UNCORR. INIT. PROD.: 39.648 BBL/DAY

API GRAVITY: 42

FLUID GRADIENT: .354

CORRECTED PIPE FILLUP: 321.7514

CORR. BARRELS OF RECOVERY: 2.2519 BBL

INITIAL PRODUCTION CORRECTED TO FINAL FLOW PRESSURE: 54.04561 BBL/DAY
 INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE
 28.47458

INITIAL SLOPE 555.9 PSI/CYCLE
 INITIAL P* 1311 PSI

FINAL SLOPE 411.39 PSI/CYCLE
 FINAL P* 1289 PSI

TRANSMISSIBILITY	21.36128 (MD.-FT./CP.)
PERMEABILITY	15.13168 (MD.)
INDICATED FLOW CAPACITY	60.52673 (MD.FT)
PRODUCTIVITY INDEX	2.413824E-02 (BARRELS/DAY/PSI)
DAMAGE RATIO	.4297535
RADIUS OF INVESTIGATION	30.13139 (FT.)
POTENTIOMETRIC SURFACE	738.52 (FT.)
DRAWDOWN FACTOR	1.678109 (%)

CALCULATED RECOVERY ANALYSIS

WEIGHT PIPE

ORIGINAL

DST #

3

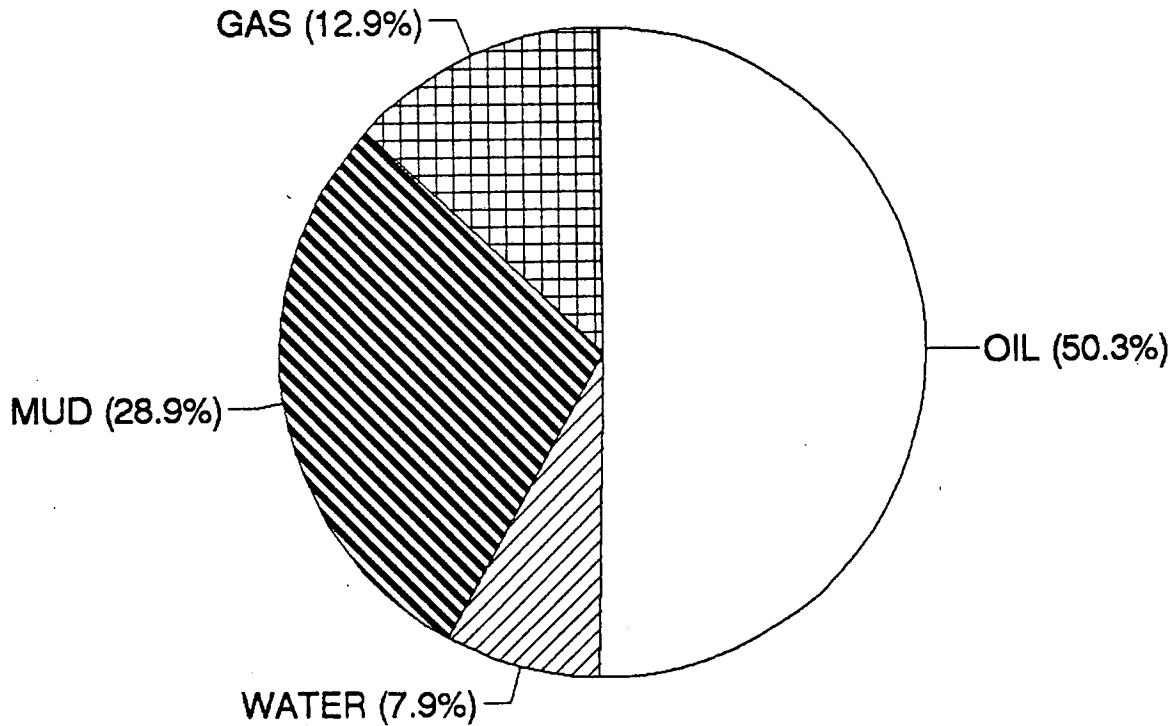
TICKET #

3866

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	112	5	5.6	95	106.4		0		0
2	62	35	21.7	15	9.3		0	50	31
3	62	5	3.1	5	3.1	30	18.6	60	37.2
4			0		0		0		0
5			0		0		0		0
TOTAL	236	12.9	30.4	50.339	118.8	7.88136	18.6	28.8983	68.2

HRS OPEN BBL/DAY

BBL OIL= 0.8316 * 1 19.9584
 BBL WATER 0.1302 * 3.1248
 BBL MUD= 0.4774



INITIAL FLOW

RECORDER # 13308
DST #3

DT(MIN)	PRESSURE	< > PRESSURE
0	46.4	46.4
3	46.4	0
6	46.4	0
9	46.4	0
12	46.4	0
15	46.4	0
18	46.4	0
21	54.9	8.5
24	54.9	0
27	54.9	0

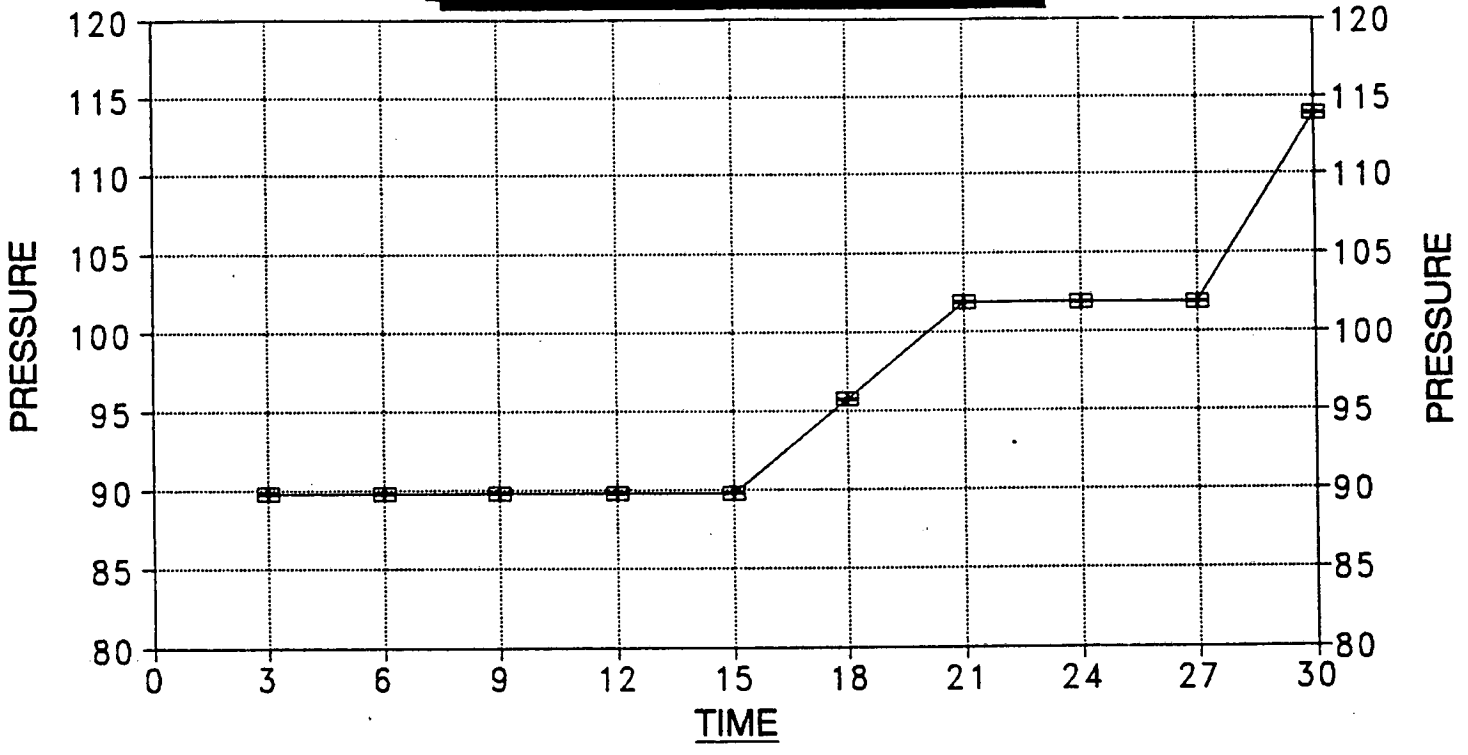
FINAL FLOW

RECORDER # 13308
DST #3

DT(MIN)	PRESSURE	< > PRESSURE
0	89.8	89.8
3	89.8	0
6	89.8	0
9	89.8	0
12	89.8	0
15	95.8	6
18	101.9	6.099999
21	101.9	0
24	101.9	0
27	113.9	12

ORIGINAL

DELTA T DELTA P
FINAL FLOW - DST #3



INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE 28.47458 BBL/DAY

BOOMHOWER #1
INITIAL

DST #3
SHUTIN
30 INITIAL FLOW TIME

Slope -555.90 psi/cycle
P * 1,311 psi

TIME(MIN)	Pws (psi)	Log		<> PRESSURE	
		Horn T	Horn T		
	3	405.8	11	1.041	405.8
	6	686.1	6	0.778	280.3
	9	918.2	4	0.637	232.1
	12	995.6	4	0.544	77.4
	15	1047.2	3	0.477	51.6
X	18	1074.1	3	0.426	26.9
	21	1095.3	2	0.385	21.2
	24	1114.1	2	0.352	18.8
X	27	1130.5	2	0.325	16.4

BOOMHOWER #1
FINAL

DST #3
SHUTIN
60 TOTAL FLOW TIME

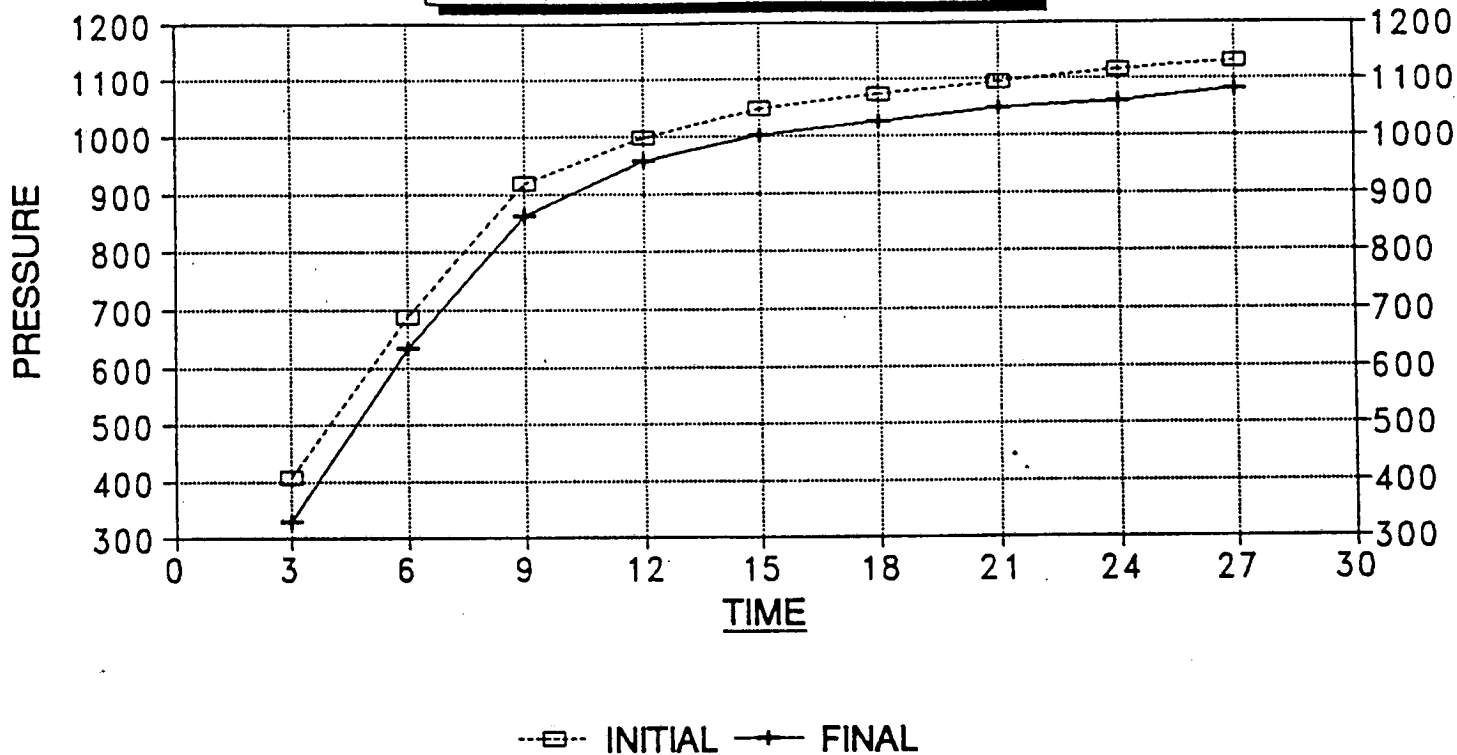
Slope -411.39 psi/cycle
P * 1,289 psi

TIME(MIN)	Pws (psi)	Log		<> PRESSURE	
		Horn T	Horn T		
	3	328.9	21	1.322	328.9
	6	634.4	11	1.041	305.5
	9	861.9	8	0.885	227.5
	12	956.9	6	0.778	95.0
X	15	1001.5	5	0.699	44.6
	18	1023.7	4	0.637	22.2
	21	1047.2	4	0.586	23.5
	24	1068.9	4	0.544	21.7
X	27	1080.0	3	0.508	11.1

DELTA T DELTA P

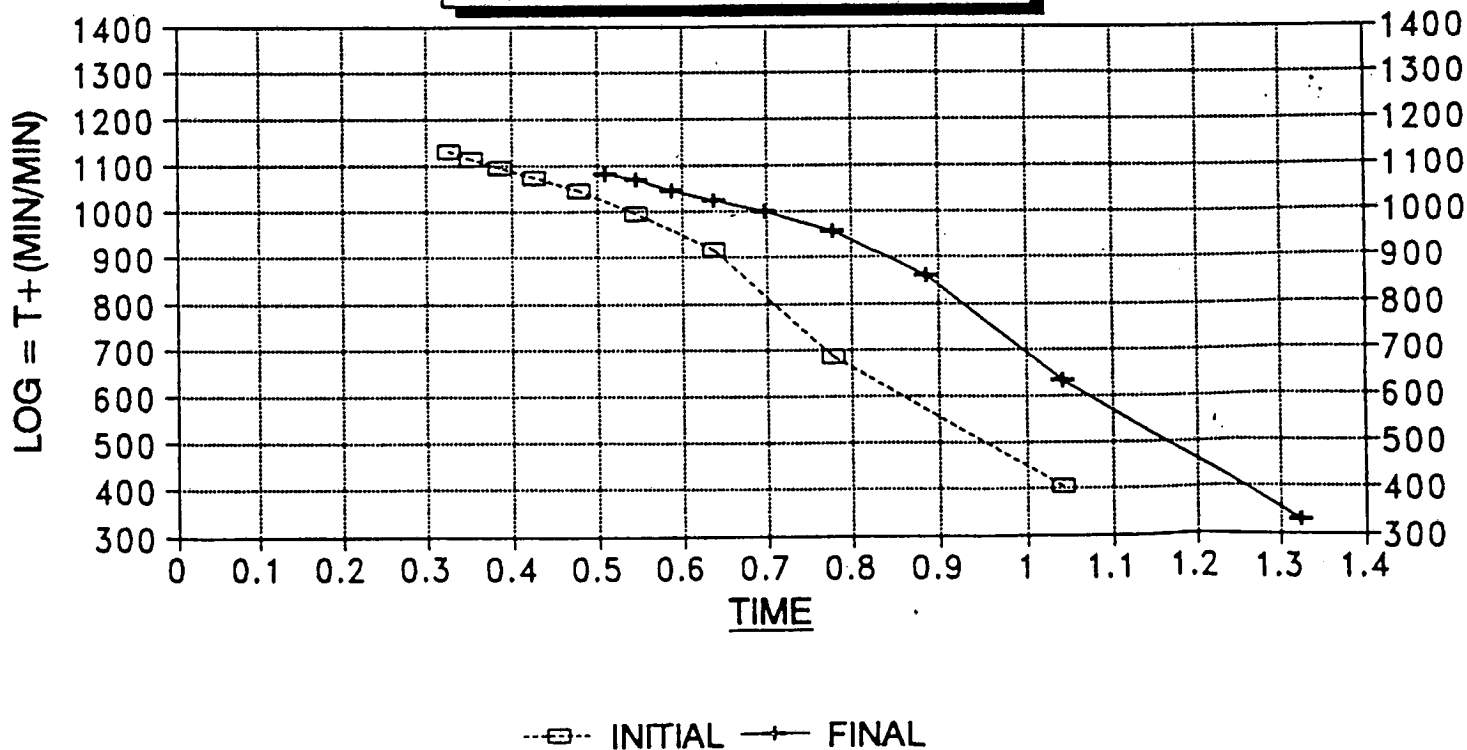
BOOMHOWER #1 / DST #3

ORIGINAL



HORNER PLOT

BOOMHOWER #1 / DST #3



TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

N^o 3866

Test Ticket

Well Name & No.	BOOMHOWER 1 st	Test No.	3	Date	9-10-91										
Company	COSTIE RES INC	Zone Tested	FT SCOTT												
Address	BANK IV SUITE C HAYS	Elevation	2679												
CO. Rep./Geo.	JERRY GREEN	cont.	EMPHASIS RIGS	Est. Ft. of Pay	4										
Location: Sec.	23	Twp.	18S	Rge.	28W	Co.	LANE	State	KS						
No. of Copies		Distribution Sheet		Yes		No		Turnkey		Yes		No		Evaluation	

Interval Tested	4435-4480	Drill Pipe Size	4 1/2 XH			
Anchor Length	45	Top Choke - 1"		Bottom Choke - 1/4"		
Top Packer Depth	4430	Hole Size - 7 7/8"		Rubber Size - 6 3/4"		
Bottom Packer Depth	4435	Wt. Pipe I.D. - 2.7 Ft. Run	4.36			
Total Depth	4480	Drill Collar - 2.25 Ft. Run				
Mud Wt.	9.3 LCM TR.	lb/gal.	Viscosity	50	Filtrate	12.0
Tool Open @	2:36 PM	Initial Blow	Good Blow OFF BOTTOM 6 MIN			

Final Blow Good Blow OFF Bottom 3 MIN
9" Blow ON SHUT-IN

Recovery - Total Feet	236	Feet of Gas in Pipe	1564	Flush Tool?			
Rec.	112	Feet Of	GAS OIL	5% gas	95% oil	% water	% mud
Rec.	62	Feet Of	GAS OIL MUD	35% gas	15% oil	% water	50% mud
Rec.	62	Feet Of	GAS OIL WATER MUD	5% gas	5% oil	30% water	60% mud
Rec.		Feet Of		% gas	% oil	% water	% mud
Rec.		Feet Of		% gas	% oil	% water	% mud

BHT 122 °F Gravity 44 °API @ 80 °F Corrected Gravity 42 °API
RW MUD @ MAM °F Chlorides 1300 ppm Recovery Chlorides 5200 ppm System

(A) Initial Hydrostatic Mud	2210	PSI	AK1 Recorder No.	13308	Range	4700
(B) First Initial Flow Pressure	22	PSI	@ (depth)	4445	w/Clock No.	27573
(C) First Final Flow Pressure	66	PSI	AK1 Recorder No.	2023	Range	4000
(D) Initial Shut-in Pressure	1147	PSI	@ (depth)	4475	w/Clock No.	8376
(E) Second Initial Flow Pressure	87	PSI	AK1 Recorder No.		Range	
(F) Second Final Flow Pressure	120	PSI	@ (depth)		w/Clock No.	
(G) Final Shut-in Pressure	1089	PSI	Initial Opening	30	Test	✓
(H) Final Hydrostatic Mud	2170	PSI	Initial Shut-in	30	Jars	

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	
Final Shut-in	30	Straddle	
		Circ. Sub	✓ NC
		Sampler	
		Extra Packer	
		Other	

Approved By [Signature]
Our Representative [Signature]
TOTAL PRICE \$ _____

JOB SUMMARY

HALLIBURTON DIVISION Oklahoma City, Ok.
 HALLIBURTON LOCATION Now City, Ks.

BILLED ON TICKET NO. 120639

WELL DATA

FIELD _____ SEC. 23 TWP. 18s RING. 28w COUNTY LANE STATE Ks

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>U</u>	<u>28</u>	<u>8 7/8</u>	<u>KB</u>	<u>230'</u>	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

FORMATION NAME _____ TYPE _____
 FORMATION THICKNESS _____ FROM _____ TO _____
 INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD _____
 PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD _____
 COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____
 PACKER TYPE _____ SET AT _____
 BOTTOM HOLE TEMP. _____ PRESSURE _____
 MISC. DATA _____ TOTAL DEPTH 233'

JOB DATA

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>9-3</u>	DATE <u>9-3</u>	DATE <u>9-3</u>	DATE <u>9-3</u>
TIME _____	TIME <u>0930</u>	TIME <u>1930</u>	TIME _____

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG <u>2 amp wooden</u>	<u>1</u>	<u>Hawco</u>
HEAD <u>8 5/8</u>	<u>1</u>	<u>Hawco</u>
PACKER		
OTHER		

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL-API _____
 DISPL. FLUID _____ DENSITY _____ LB/GAL-API _____
 PROP. TYPE _____ SIZE _____ LB. _____
 PROP. TYPE _____ SIZE _____ LB. _____
 ACID TYPE _____ GAL. _____ % _____
 ACID TYPE _____ GAL. _____ % _____
 ACID TYPE _____ GAL. _____ % _____
 SURFACTANT TYPE _____ GAL. _____ IN _____
 NE AGENT TYPE _____ GAL. _____ IN _____
 FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN _____
 GELLING AGENT TYPE _____ GAL.-LB. _____ IN _____
 FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN _____
 BREAKER TYPE _____ GAL.-LB. _____ IN _____
 BLOCKING AGENT TYPE _____ GAL.-LB. _____
 PERFPAC BALLS TYPE _____ QTY. _____
 OTHER _____
 OTHER _____

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>D. Lammiman</u>	<u>0959</u>	<u>Now City, Ks.</u>
<u>B. Crosswhite</u>	<u>Comba</u>	<u>Now City, Ks.</u>
<u>D. Ash</u>	<u>51352</u>	<u>Now City, Ks.</u>
	<u>B-71K</u>	<u>Now City, Ks.</u>

DEPARTMENT Cement
 DESCRIPTION OF JOB Cement surface casing to ground level as directed.
 JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.
 CUSTOMER REPRESENTATIVE X Bill Owen
 HALLIBURTON OPERATOR Ann Lammiman COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>150</u>	<u>100/40</u>	<u>B-A</u>	<u>B</u>	<u>2% gpl, 3% C.C.</u>	<u>1.28</u>	<u>14.36</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRESLUSH: BBL-GAL _____ TYPE _____
 BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL-GAL _____ PAD: BBL-GAL _____
 AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL-GAL _____
 SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY: BBL-GAL 34
 HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL-GAL _____
 ORDERED _____ AVAILABLE _____ USED _____
 AVERAGE RATES IN BPM _____
 TREATING _____ DISPL. _____ OVERALL _____
 CEMENT LEFT IN PIPE _____
 FEET 20' REASON Requested
 (10624)

REMARKS
see Job Log
Thank you
sent Bill Owen to here

RECEIVED
 CORPORATION COMMISSION
 13 1/4

AUG 10 1992

WISCONSIN DIVISION
 Wichita, Kansas

CUSTOMER Beale Resources Inc
 LEASE Beam header
 WELL NO. 1
 JOB TYPE Pressure
 DATE 9-3-91

DISTRICT Hays, Ks

DATE 9-11-91

TO: HALLIBURTON SERVICES

YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE

THE SAME AS AN INDEPENDENT CONTRACTOR TO: Cattle Resources

AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING (CUSTOMER)

WELL NO. # 1 LEASE Boombower SEC 23 TWP. 183 RANGE 28W

FIELD _____ COUNTY Lane STATE Ks OWNED BY Same

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME _____ TYPE _____
FORMATION THICKNESS _____ FROM _____ TO _____
PACKER: TYPE _____ SET AT _____
TOTAL DEPTH 4560' MUD WEIGHT _____
BORE HOLE 7 7/8"
INITIAL PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF
PRESENT PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF

	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING	<u>4</u>	<u>7.15</u>	<u>4 1/2</u>	<u>KB</u>	<u>1557</u>	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

PREVIOUS TREATMENT: DATE _____ TYPE _____

MATERIALS

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED

Cement production casing as directed

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

- As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED
- To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are 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 attorneys 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.
 - To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for:
 - Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
 - Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
 - Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.
- The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) below shall apply to claims or liability even if caused or contributed to by Halliburton's negligence, strict liability, or the unseaworthiness of any vessel owned, operated, or furnished by Halliburton or any defect in the data, products, supplies, materials, or equipment of Halliburton whether in the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of Halliburton. The term "Halliburton" as used in said Sections b) and c) shall mean Halliburton, its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.
- That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information.
 - That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.
 - That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing until returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
 - To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
 - That this contract shall be governed by the law of the state where services are performed or materials are furnished.
 - That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized officer of Halliburton.

RECEIVED
AUG 5 1991
COMMISSIONER

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.

SIGNED _____ CUSTOMER

DATE 9-11-91

TIME 1700 A.M. (P.M.)

JOB SUMMARY

HALLIBURTON DIVISION *Oklahoma City, OK*
 HALLIBURTON LOCATION *Ness City, KS*

BILLED ON TICKET NO. *170647*

ORIGINAL

WELL DATA

FIELD _____ SEC *23* TWP *18s* RNG *28w* COUNTY *Lane* STATE *Ks*

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD _____

PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD _____

COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____

PACKER TYPE _____ SET AT _____

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC. DATA _____ TOTAL DEPTH *4560*

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<i>U</i>	<i>9.5</i>	<i>4 1/2</i>	<i>KB</i>	<i>9557</i>	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <i>9-11</i>	DATE <i>9-11</i>	DATE <i>9-11</i>	DATE <i>9-11</i>
TIME <i>1200</i>	TIME <i>1655</i>	TIME <i>1700</i>	TIME <i>2200</i>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<i>D. Lewman</i>	<i>3580</i>	
<i>B. Crosswhite</i>	<i>3703</i>	<i>Ness City, KS</i>
<i>A. Gable</i>	<i>B-TIK</i>	<i>Hays, KS</i>
<i>D. Rotherberg</i>	<i>51252</i>	
	<i>B-TIK</i>	<i>Hays, KS</i>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <i>Insert float valve</i>		
FLOAT SHOE <i>Auto fill</i>		
GUIDE SHOE <i>Regular</i>		
CENTRALIZERS <i>S-4</i>	<i>7</i>	
BOTTOM PLUG <i>EZ-LOKs Clamps</i>		
TOP PLUG <i>SW</i>		
HEAD <i>4 1/2</i>		
PACKER <i>Roto walls</i>	<i>11</i>	
OTHER <i>Cement Baskets</i>	<i>3</i>	
<i>Banding Material</i>		

TREAT. FLUID _____ DENSITY _____ LB/GAL. API _____

DISPL. FLUID _____ DENSITY _____ LB/GAL. API _____

PROP. TYPE _____ SIZE _____ LB.

ACID TYPE _____ GAL _____ %

SURFACTANT TYPE _____ GAL _____ IN.

NE AGENT TYPE _____ GAL _____ IN.

FLUID LOSS ADD. TYPE _____ GAL-LB. _____ IN.

GELLING AGENT TYPE _____ GAL-LB. _____ IN.

FRIC. RED. AGENT TYPE _____ GAL-LB. _____ IN.

BREAKER TYPE _____ GAL-LB. _____ IN.

BLOCKING AGENT TYPE _____ GAL-LB. _____

PERFPAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

DEPARTMENT *Cement*

DESCRIPTION OF JOB *Cement production as directed*

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE *X* *W. Williams*

HALLIBURTON OPERATOR *Don Lewman* COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<i>275</i>	<i>Emulite</i>	<i>Part A B</i>	<i>5#</i>	<i>Gilsonite 1/8# 1st floob</i>	<i>3.18</i>	<i>11</i>
	<i>35</i>	<i>Common</i>	<i>Part A B</i>			<i>1.18</i>	<i>15.6</i>
	<i>125</i>	<i>EA-2</i>	<i>Part A B</i>		<i>5% Calson 18% Salt 1/2% CER-3 5#/sk Gilsonite 1/8# 1st floob</i>	<i>1.90</i>	<i>15.0</i>

PRESSURES IN PSI

CIRCULATING _____ DISPLACEMENT _____

BREAKDOWN _____ MAXIMUM _____

AVERAGE _____ FRACTURE GRADIENT _____

SHUT-IN: INSTANT _____ 5-MIN. _____ 15-MIN. _____

HYDRAULIC HORSEPOWER _____

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET *70'* REASON *Shoe joint*

SUMMARY

VOLUMES

PRELUSH: BBL-GAL. *500* TYPE *Superflush*

LOAD & BKDN: BBL-GAL. _____ PAD: BBL-GAL. _____

TREATMENT: BBL-GAL. _____ DISPL: BBL-GAL. *73*

CEMENT SLURRY: BBL-GAL. *155 - 7 1/2 = 33*

TOTAL VOLUME: BBL-GAL. _____

REMARKS

115 **RECEIVED** **COMMISSION**

STATE CORPORATION

AUG 5 1994

CONSERVATION DIVISION
 Wichita, Kansas

CUSTOMER *Castle Resources*
 LEASE *Boomer Hoover*
 WELL NO. *1*
 JOB TYPE *Refract*
 DATE *9-11-94*

JOB LOG

FORM 2013 R-2

WELL NO. #1 LEASE Boomtown TICKET NO. 170647
 CUSTOMER Castle Resources PAGE NO. 1
 JOB TYPE Cement Prod. Casing DATE 9-11-91

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	11:50							Called @ 1200 Ready @ 1700 ON location - Rig just finish laying down D.P.
	17:50							Put on Roto Wall Cleaners Start 4 1/2" casing in hole Reg Guide Shoe, Insert & Auto fill Leuton Jts #2-4-7-11-15-61-109
	19:50							Cement Baskets on Jts #3-16-62 Drop ball - 6 Jts off Bottom Finish running casing Hook up & cir down 10'
	20:15							Hook up Rotating head & Rig cir & rotate casing.
	20:30							Finish cir. - Hook to Hauler equip.
	20:32	5 6 1/2				250 300 200		Pump 1 sk gal in 2 1/2 BBI wtr. Start 275 SKS Econolite cut. Plug RH & MH while pumping.
	20:55	8	150			225 275 800 600		slow rate & finish up Econolite cut. Start pumping 115 BBI Mud spacer slow rate @ 110 BBI Pump 2 BBI H2O
			115			600		Pump 500 gal Super Flush
			2			500		Pump 2 BBI H2O
	21:13		8 1/2			550		Start 35 SKS Common cut as scavenger
	21:17	7				500		Start 125 SKS EA-2 cut.
	21:18	5				350 100		Increase rate
	21:23		33			200		Finish EA-2 cut. Wash up Pump & lines Release 5w top Plug.
	21:25	8				225		start Disp1 - H2O (stop rotating casing @ 60 BBI)
	21:33					1300 1050		slow rate @ 68 BBI to land plug.
	21:34		73			1150 600		Plug down - Csg held
	21:35					0		Release press - Insert
	21:40							Wash up & Pack up
	22:00							Job Complete

RECEIVED
 INSPECTION COMMISSION
 AUG 5 1992
 D. Lemman 71215
 B. Crosswhite
 D. R. Heberer 73104
 A. Cable - 884-86
 81493