

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name PABST #1 Test No. 1 Date 11/14/92
Company CASTLE RESOURCES, INC. Zone KS CITY
Address 1200 E.27th HAYS KANSAS 67601 Elevation _____
Co. Rep./Geo. JERRY GREEN Cont. EMPHASIS RIG #7 Est. Ft. of Pay _____
Location: Sec. 14 Twp. 9S Rge. 34W Co. THOMAS State KS

Interval Tested 4166-4195 Drill Pipe Size 4.5 XH
Anchor Length 29 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4161 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 4166 Mud Wt. 8.8 lb/Gal.
Total Depth 4195 Viscosity 47 Filtrate 10.4

Tool Open @ 4:31 AM Initial Blow OPEN 1/2" TO 8" IN 45 MINUTES

Final Blow WEAK SURFACE BLOW TO 3.5" IN 45 MINUTES

Recovery - Total Feet 90 Flush Tool? NO

Rec. 90 Feet of SLTLY MUD CUT WATER-93%WTR/7%MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 114 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.15 @ 72 °F Chlorides 45000 ppm Recovery Chlorides 3000 ppm System

(A) Initial Hydrostatic Mud 2085.6 PSI AK1 Recorder No. 13308 Range 4700

(B) First Initial Flow Pressure 41.2 PSI @ (depth) 4165 w / Clock No. 19960

(C) First Final Flow Pressure 50.9 PSI AK1 Recorder No. 11057 Range 4500

(D) Initial Shut-in Pressure 785.9 PSI @ (depth) 4190 w / Clock No. 8179

(E) Second Initial Flow Pressure 50.9 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 63.8 PSI @ (depth) _____ w / Clock No. _____

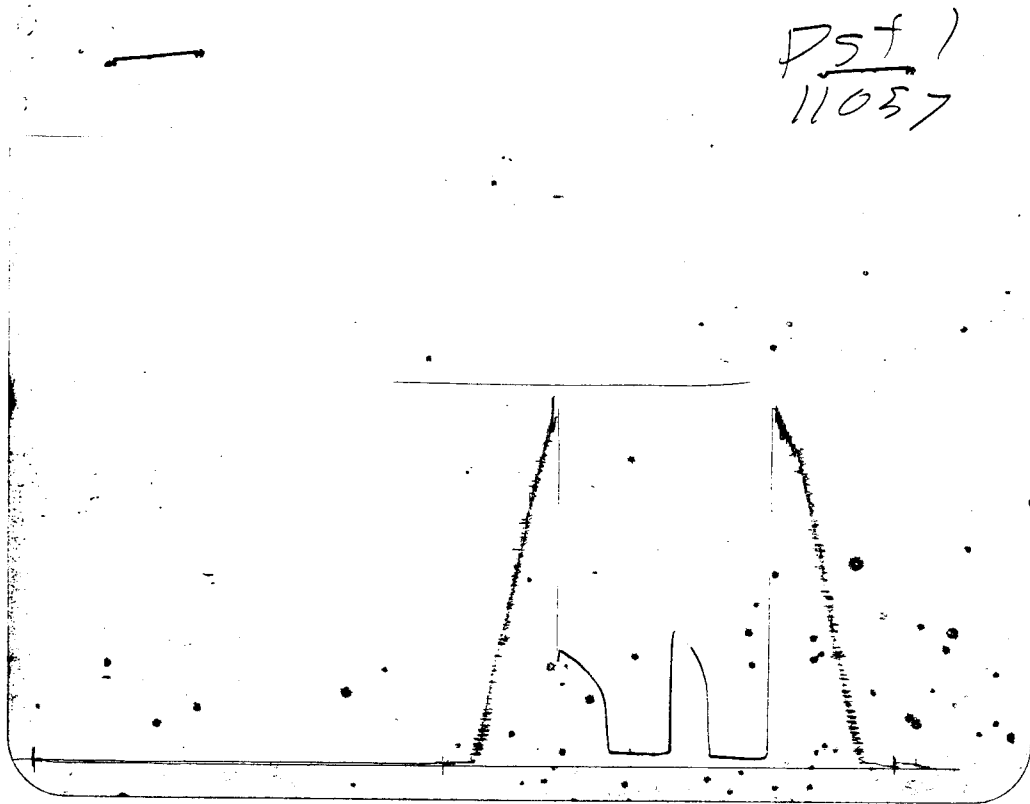
(G) Final Shut-in Pressure 692.5 PSI Initial Opening 45 Final Flow 45

(H) Final Hydrostatic Mud 2060.9 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative MARK HERSKOWITZ

CHART PAGE

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11037



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2080	2085.6
(B) FIRST INITIAL FLOW PRESSURE	36	41.2
(C) FIRST FINAL FLOW PRESSURE	48	50.9
(D) INITIAL CLOSED-IN PRESSURE	783	785.9
(E) SECOND INITIAL FLOW PRESSURE	48	50.9
(F) SECOND FINAL FLOW PRESSURE	60	63.8
(G) FINAL CLOSED-IN PRESSURE	689	692.5
(H) FINAL HYDROSTATIC MUD	2057	2060.9

TRILOBITE TESTING L.L.C.

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Test Ticket

No 5359

Well Name & No. PABST 1st Test No. 1 Date 11-14-92
Company CASTLE RESOURCES Zone Tested KANSAS CITY
Address 1200^E 27th STE. C HAYS Elevation _____
Co. Rep./Geo. JERRY GREEN Cont. EMPHASIS Rig 7 Est. Ft. of Pay _____
Location: Sec. 14 Twp. 09S Rge. 34W Co. THOMAS State KS
No. of Copies 5 Distribution Sheet _____ Yes _____ No Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 4166 - 4195 Drill Pipe Size 4 1/2 X 4 1/2
Anchor Length 29 Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth 4161 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth 4166 Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth 4195 Drill Collar — 2.25 Ft. Run _____
Mud Wt. 8.8 LCM 1st lb/gal. Viscosity 47 Filtrate 10.4
Tool Open @ 4:31 AM Initial Blow OPEN 1/2" to 8" IN 45 MIN

Final Blow WEAK SUR BLOW to 3 1/2" IN 45 MIN

Recovery — Total Feet	Feet of Gas In Pipe	Flush Tool?
Rec. <u>90</u> Feet Of <u>5 MUD WATER</u> %gas _____ %oil 93 %water <u>7</u> %mud _____	_____	_____
Rec. _____ Feet Of _____ %gas _____ %oil <u>93</u> %water _____ %mud _____	_____	_____
Rec. _____ Feet Of _____ %gas _____ %oil _____ %water _____ %mud _____	_____	_____
Rec. _____ Feet Of _____ %gas _____ %oil _____ %water _____ %mud _____	_____	_____
Rec. _____ Feet Of _____ %gas _____ %oil _____ %water _____ %mud _____	_____	_____

BHT 114 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.15 @ 72 °F Chlorides 45000 ppm Recovery Chlorides 3000 ppm System
(A) Initial Hydrostatic Mud 2080 PSI AK1 Recorder No. 13308 Range 4700
(B) First Initial Flow Pressure 34 PSI @ (depth) 4165 w/Clock No. 19960
(C) First Final Flow Pressure 48 PSI AK1 Recorder No. 11057 Range 4500
(D) Initial Shut-In Pressure 783 PSI @ (depth) 4190 w/Clock No. 8179
(E) Second Initial Flow Pressure 48 PSI AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure 60 PSI @ (depth) _____ w/Clock No. _____
(G) Final Shut-In Pressure 489 PSI Initial Opening 45 Test
(H) Final Hydrostatic Mud 2057 PSI Initial Shut-In 30 Jars _____

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Final Flow 45 Safety Joint _____
Final Shut-In 30 Straddle _____
Circ. Sub HC
Sampler _____
Extra Packer _____
Other _____
TOTAL PRICE \$ _____

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

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name PABST #1 Test No. 2 Date 11/15/92
Company CASTLE RESOURCES, INC. Zone KS CITY
Address 1200 E.27th HAYS KANSAS 67601 Elevation _____
Co. Rep./Geo. JERRY GREEN Cont. EMPHASIS RIG #7 Est. Ft. of Pay _____
Location: Sec. 14 Twp. 9S Rge. 34W Co. THOMAS State KS

Interval Tested 4370-4415 Drill Pipe Size 4.5 XH
Anchor Length 45 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4365 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 4370 Mud Wt. 9.2 lb/Gal.
Total Depth 4415 Viscosity 48 Filtrate 9.6

Tool Open @ 4:46 AM Initial Blow OPEN 1" TO OFF BOTTOM IN 20 MINUTES

Final Blow SURFACE TO 10" IN 30 MINUTES

Recovery - Total Feet 270 Flush Tool? NO

Rec. 30 Feet of SLTLY OIL CUT WATERY MUD-5%OIL/25%WTR/70%MUD
Rec. 240 Feet of WATER
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 118 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.12 @ 75 °F Chlorides 50000 ppm Recovery Chlorides 6000 ppm System

(A) Initial Hydrostatic Mud 2215.6 PSI AK1 Recorder No. 13308 Range 4700

(B) First Initial Flow Pressure 41.2 PSI @ (depth) 4374 w / Clock No. 19960

(C) First Final Flow Pressure 75.9 PSI AK1 Recorder No. 11057 Range 4500

(D) Initial Shut-in Pressure 1210.7 PSI @ (depth) 4410 w / Clock No. 8179

(E) Second Initial Flow Pressure 101.3 PSI AK1 Recorder No. _____ Range _____

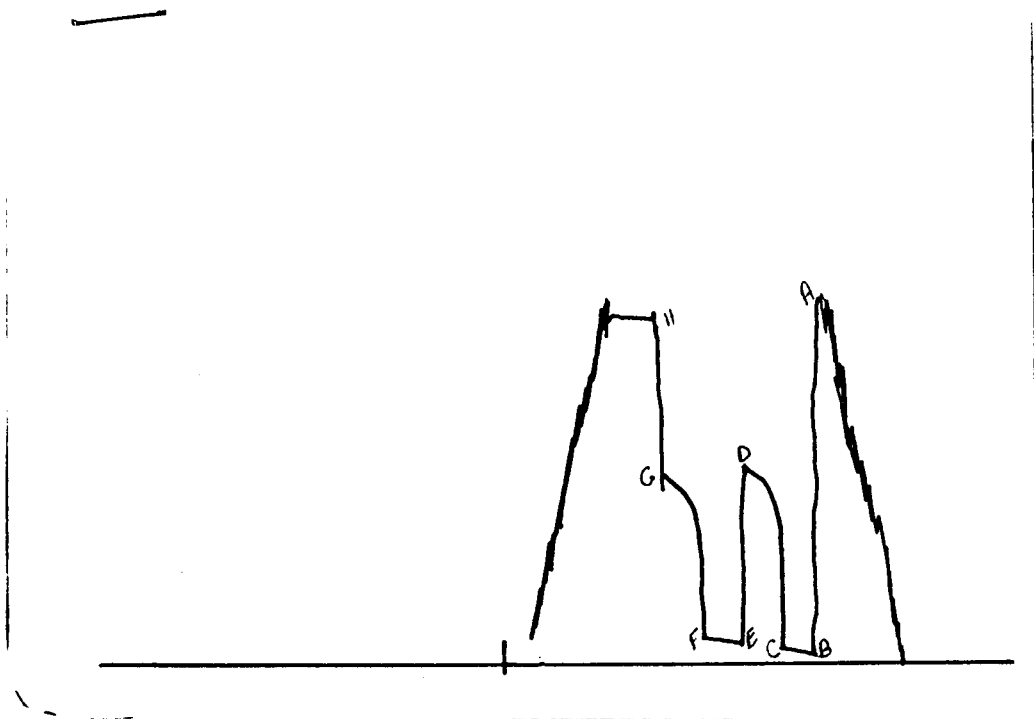
(F) Second Final Flow Pressure 151.6 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1140.7 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2177.9 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative MARK HERSKOWITZ

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2211	2215.6
(B) FIRST INITIAL FLOW PRESSURE	36	41.2
(C) FIRST FINAL FLOW PRESSURE	70	75.9
(D) INITIAL CLOSED-IN PRESSURE	1205	1210.7
(E) SECOND INITIAL FLOW PRESSURE	97	101.3
(F) SECOND FINAL FLOW PRESSURE	145	151.6
(G) FINAL CLOSED-IN PRESSURE	1135	1140.7
(H) FINAL HYDROSTATIC MUD	2175	2177.9

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No. 5360

Well Name & No. PAST 1 # Test No. 2 Date 11-15-92
Company CASTLE RESOURCES Zone Tested KANSAS CITY
Address 1200 E 27TH ST C HAYS. Elevation [REDACTED]
Co. Rep./Geo. JERRY GREEN Cont. EMPHASIS DRILL Est. Ft. of Pay _____
Location: Sec. 14 Twp. 09s Rge. 34w Co. THOMAS State KS
No. of Copies 5 Distribution Sheet _____ Yes _____ No Turnkey _____ Yes _____ No Evaluation _____

Interval Tested 4370 - 4415 Drill Pipe Size 4 1/2 X 4
Anchor Length 45 Top Choke - 1" _____ Bottom Choke - 3/4" _____
Top Packer Depth 4365 Hole Size - 77/8" _____ Rubber Size - 6 3/4" _____
Bottom Packer Depth 4370 Wt. Pipe I.D. - 2.7 Ft. Run _____
Total Depth 4415 Drill Collar - 2.25 Ft. Run _____
Mud Wt. 9.2 LCM 1/2 lb/gal. Viscosity 48 Filtrate 9.6
Tool Open @ 4:46 AM Initial Blow OPEN 1" TO OFF BOTTOM IN 20 MIN
Final Blow SUR TO 10" IN 30 MIN

Recovery - Total Feet	Feet of Gas in Pipe	Flush Tool?
Rec. <u>30</u> Feet Of <u>SOC W MUD</u>	% gas <u>5</u> % oil <u>25</u> % water <u>70</u> % mud	
Rec. <u>240</u> Feet Of <u>WATER</u>	% 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 118 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.12 @ 75 °F Chlorides 50,000 ppm Recovery Chlorides 6,000 ppm System
(A) Initial Hydrostatic Mud 2211 PSI AK1 Recorder No. 13308 Range 4700
(B) First Initial Flow Pressure 34 PSI @ (depth) 4374 w/Clock No. 19960
(C) First Final Flow Pressure 70 PSI AK1 Recorder No. 11057 Range 4500
(D) Initial Shut-In Pressure 1205 PSI @ (depth) 4410 w/Clock No. 8179
(E) Second Initial Flow Pressure 97 PSI AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure 145 PSI @ (depth) _____ w/Clock No. _____
(G) Final Shut-In Pressure 1135 PSI Initial Opening 30 Test
(H) Final Hydrostatic Mud 2175 PSI Initial Shut-In 30 Jars _____

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

Approved By _____
Our Representative [Signature]

Printcraft Printers - Hays, KS