

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name STRAMEL #1 Test No. 1 Date 8/25/92
Company CASTLE RESOURCES, INC. Zone KS CITY
Address 1200 E.27th HAYS KANSAS 67601 Elevation 1819
Co. Rep./Geo. JERRY GREEN Cont. EMPHASIS RIG #5 Est. Ft. of Pay _____
Location: Sec. 1 Twp. 16S Rge. 17W Co. RUSH State KS

Interval Tested <u>3340-3422</u>	Drill Pipe Size <u>4.5 XH</u>
Anchor Length <u>82</u>	Wt. Pipe I.D. - 2.7 Ft. Run <u>600</u>
Top Packer Depth <u>3335</u>	Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth <u>3340</u>	Mud Wt. <u>9.1</u> lb/Gal.
Total Depth <u>3422</u>	Viscosity <u>42</u> Filtrate <u>9.8</u>

Tool Open @ 4:45 Initial Blow FAIR BLOW THROUGHOUT - BOTTOM OF BUCKET IN
30 MINUTES
Final Blow SAME AS INITIAL

Recovery - Total Feet 110 Flush Tool? NO

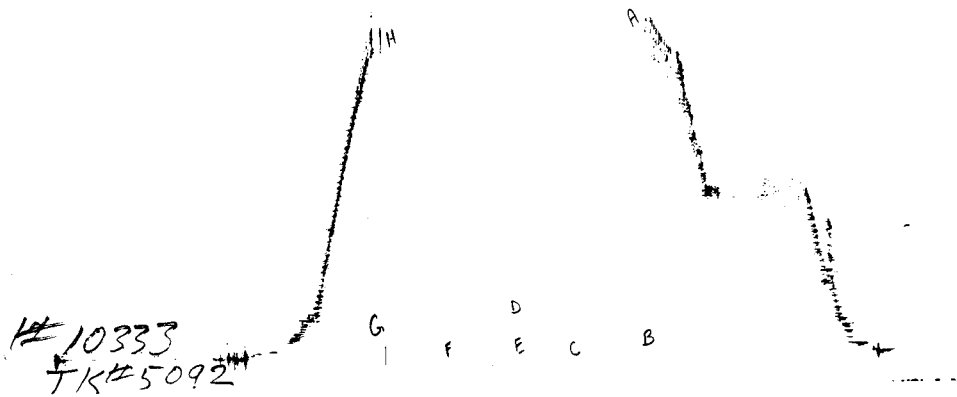
Rec. <u>120</u>	Feet of <u>GAS IN PIPE</u>
Rec. <u>50</u>	Feet of <u>OIL & GAS CUT MUD-20%GAS/20%OIL/60%MUD</u>
Rec. <u>60</u>	Feet of <u>GASSY OIL & WTR CUT MUD-40%GAS/30%OIL/10%WATER/20%MUD</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT N/A °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 15000 ppm System

(A) Initial Hydrostatic Mud <u>1711.2</u> PSI	AK1 Recorder No. <u>13337</u> Range <u>3975</u>
(B) First Initial Flow Pressure <u>46.9</u> PSI	@ (depth) <u>3350</u> w / Clock No. <u>31154</u>
(C) First Final Flow Pressure <u>61.3</u> PSI	AK1 Recorder No. <u>10333</u> Range <u>4075</u>
(D) Initial Shut-in Pressure <u>167.4</u> PSI	@ (depth) <u>3422</u> w / Clock No. <u>30401</u>
(E) Second Initial Flow Pressure <u>95.5</u> PSI	AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure <u>87.1</u> PSI	@ (depth) _____ w / Clock No. _____
(G) Final Shut-in Pressure <u>144.5</u> PSI	Initial Opening <u>45</u> Final Flow <u>45</u>
(H) Final Hydrostatic Mud <u>1708.8</u> PSI	Initial Shut-in <u>45</u> Final Shut-in <u>45</u>

Our Representative HARRY SCHMIDT

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1709	1711.2
(B) FIRST INITIAL FLOW PRESSURE	29	46.9
(C) FIRST FINAL FLOW PRESSURE	49	61.3
(D) INITIAL CLOSED-IN PRESSURE	158	167.4
(E) SECOND INITIAL FLOW PRESSURE	59	95.5
(F) SECOND FINAL FLOW PRESSURE	79	87.1
(G) FINAL CLOSED-IN PRESSURE	148	144.5
(H) FINAL HYDROSTATIC MUD	1709	1708.8

CALCULATED RECOVERY ANALYSIS

WEIGHT PIPE

DST #

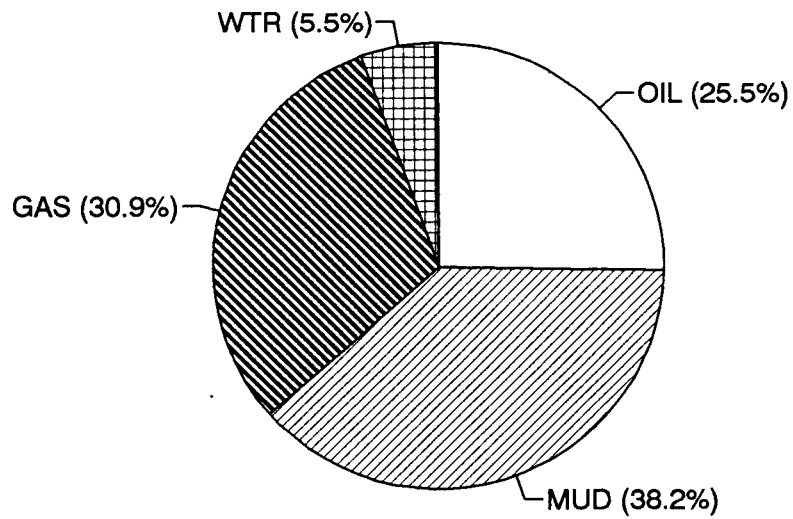
1

TICKET #

5092

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	50	20	10	20	10	0	0	60	30
2	60	40	24	30	18	10	6	20	12
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	110	30.91	34	25.454545	28	5.4545	6	38.182	42

			HRS OPEN	BBL/DAY
BBL OIL=	0.196	*	1.5	3.136
BBL WATER=	0.042	*		0.672
BBL MUD=	0.294			
BBL GAS=	0.238			



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Test Ticket

NO 5092

Well Name & No. <u>STREMEL #1</u>	Test No. <u>ONE</u>	Date <u>8-25-92</u>
Company <u>CASTLE RESOURCES</u>	Zone Tested <u>KC City</u>	
Address <u>1200 E. 27TH ST., SUITE C HAYS KS 67601</u>		Elevation <u>1819 GL</u>
Co. Rep./Geo. <u>JERRY GREEN</u>	Cont. <u>EMANASIS #5</u>	Est. Ft. of Pay
Location: Sec. <u>01</u>	Twp. <u>16</u>	Rge. <u>17</u> Co. <u>RUSH</u> State <u>KS</u>
No. of Copies <u>5</u>	Distribution Sheet	Yes ☐ No ☐ Turnkey ☐ Yes ☐ No ☐ Evaluation

Interval Tested <u>3340 TO 3422</u>	Drill Pipe Size <u>4 1/2" XH</u>
Anchor Length <u>82'</u>	Top Choke — 1" Bottom Choke — 3/4"
Top Packer Depth <u>3335</u>	Hole Size — 7 7/8" Rubber Size — 6 3/4"
Bottom Packer Depth <u>3340</u>	Wt. Pipe I.D. — 2.7 Ft. Run <u>600</u>
Total Depth <u>3422</u>	Drill Collar — 2.25 Ft. Run <u>-</u>
Mud Wt. <u>9.1</u> lb/gal.	Viscosity <u>42</u> Filtrate <u>98</u>
Tool Open @ <u>4:45</u> Initial Blow <u>FAIR THROUGHOUT ROT. BUCKET IN 30 MIN.</u>	

Final Blow SAME AS INITIAL

Recovery — Total Feet <u>110</u>	Feet of Gas In Pipe <u>120'</u>	Flush Tool? <u>NO</u>
Rec. <u>50</u> Feet Of <u>O + G C M</u>	<u>20</u> % gas <u>20</u> % oil	% water <u>60</u> % mud
Rec. <u>60</u> Feet Of <u>G.M.O. + W.</u>	<u>40</u> % gas <u>30</u> % oil	<u>10</u> % water <u>20</u> % mud
Rec. _____ Feet Of _____	% gas _____ % oil _____	% water _____ % mud _____
Rec. _____ Feet Of _____	% gas _____ % oil _____	% water _____ % mud _____
Rec. _____ Feet Of _____	% gas _____ % oil _____	% water _____ % mud _____

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

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 15,000 ppm System

(A) Initial Hydrostatic Mud <u>1709</u>	PSI AK1 Recorder No. <u>13337</u>	Range <u>3975</u>
(B) First Initial Flow Pressure <u>29</u>	PSI @ (depth) <u>3350</u>	w/Clock No. <u>311541</u>
(C) First Final Flow Pressure <u>49</u>	PSI AK1 Recorder No. <u>10333</u>	Range <u>4075</u>
(D) Initial Shut-In Pressure <u>158</u>	PSI @ (depth) <u>3422</u>	w/Clock No. <u>30401</u>
(E) Second Initial Flow Pressure <u>59</u>	PSI AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure <u>79</u>	PSI @ (depth) _____	w/Clock No. _____
(G) Final Shut-In Pressure <u>148</u>	PSI Initial Opening <u>45</u>	Test <u>55000</u>
(H) Final Hydrostatic Mud <u>1709</u>	PSI Initial Shut-In <u>45</u>	Jars _____

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Final Flow <u>45</u>	Safety Joint _____
Final Shut-In <u>45</u>	Straddle _____
	Circ. Sub _____
	Sampler _____
	Extra Packer _____
	Other _____

Approved By _____

Our Representative [Signature]

TOTAL PRICE \$ 55000