

ORIG.

TRILOBITE TESTING, L.L.C.

CONFIDENTIAL

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data API# 15-187-20692

Well Name SPIKES #1-29 Test No. 1 Date 8/21/93
 Company PETROLEUM INC Zone KEYS
 Address 301 N MAIN SUITE 900 WICHITA KS 67202 Elevation 3420
 Co. Rep./Geo. JON CHRISTENSEN Cont. TRANS-PAC DRLG Est. Ft. of Pay 8
 Location: Sec. 29 Twp. 29S Rge. 41W Co. STANTON State KS

NE NE SE

Interval Tested 5306-5420 Drill Pipe Size 4.5" XH
 Anchor Length 114 **KCC** Wt. Pipe I.D. - 2.7 Ft. Run _____
 Top Packer Depth 5301 Drill Collar - 2.25 Ft. Run 556
 Bottom Packer Depth 5306 **SEP 17** Mud Wt. 9.0 lb/Gal.
 Total Depth 5420 **CONFIDENTIAL** Viscosity 56 Filtrate 7.2

Tool Open @ 9:20 AM Initial Blow STRONG BLOW - BOTTOM OF BUCKET IN 1 1/2 MINUTE
 ISI: bled off blow - weak blow - built to 3 1/2"
 Final Blow STRONG BLOW - BOTTOM OF BUCKET IN 7 MINUTES
 FSI: bled off blow - weak blow - built to 1 1/2"

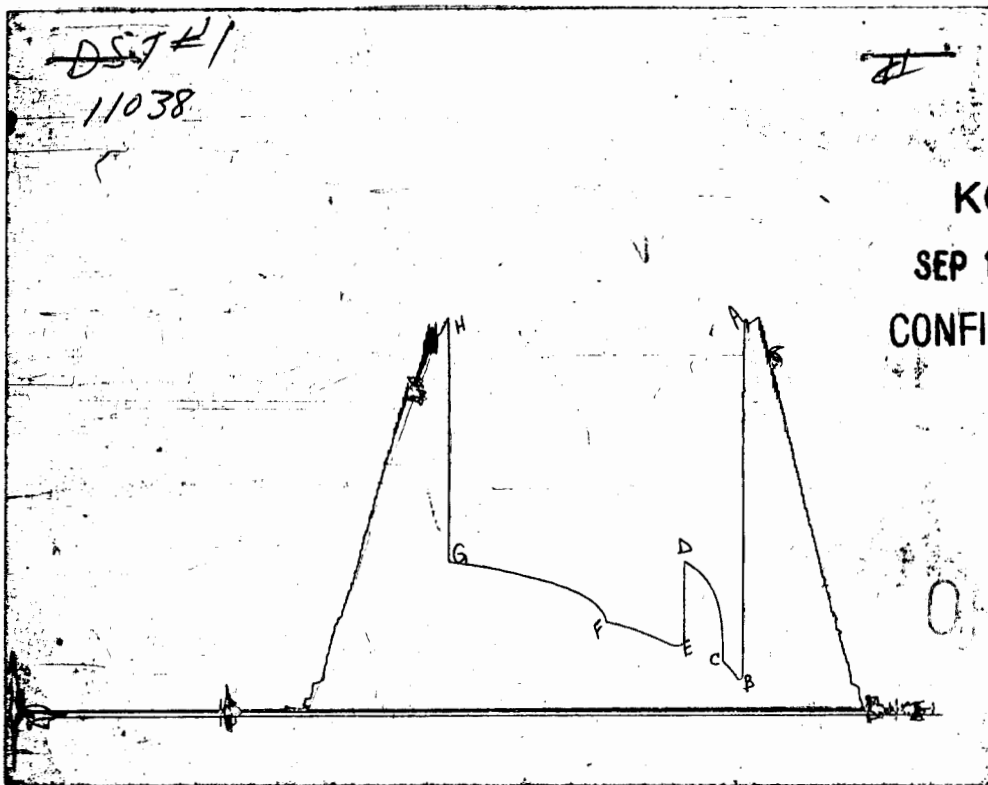
Recovery - Total Feet 1196 Flush Tool? NO **RELEASED**

Rec. 300 Feet of GAS IN PIPE **OCT 12 1994**
 Rec. 1196 Feet of GASSY SALT WATER
 Rec. _____ Feet of _____ **FROM CONFIDENTIAL**
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____

BHT 131 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 0.058 @ 98 °F Chlorides 92000 ppm Recovery Chlorides 800 ppm System

(A) Initial Hydrostatic Mud 2583.6 PSI AK1 Recorder No. 5495 Range 4200
 (B) First Initial Flow Pressure 204.1 PSI @ (depth) 5309 w / Clock No. 25813
 (C) First Final Flow Pressure 322.9 PSI AK1 Recorder No. 11038 Range 5075
 (D) Initial Shut-in Pressure 992.4 PSI @ (depth) 5417 w / Clock No. 25814
 (E) Second Initial Flow Pressure 440.3 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 580.7 PSI @ (depth) _____ w / Clock No. _____
 (G) Final Shut-in Pressure 992.4 PSI Initial Opening 15 Final Flow 60
 (H) Final Hydrostatic Mud 2510.4 PSI Initial Shut-in 30 Final Shut-in 120

Our Representative TOM HORACEK



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2580	2583.6
(B) FIRST INITIAL FLOW PRESSURE	203	204.1
(C) FIRST FINAL FLOW PRESSURE	323	322.9
(D) INITIAL CLOSED-IN PRESSURE	995	992.4
(E) SECOND INITIAL FLOW PRESSURE	442	440.3
(F) SECOND FINAL FLOW PRESSURE	585	580.7
(G) FINAL CLOSED-IN PRESSURE	995	992.4
(H) FINAL HYDROSTATIC MUD	2503	2510.4

FLUID SAMPLER DATA

CONFIDENTIAL

Ticket No.: 6070

Date: 8/21/93

Company: PETROLEUM INC

Lease: SPIKES #1-29

Test No.: 1

County: STANTON

Sec.: 29

Twp.: 29S

Rng.: 41W

ORV

KCC

SAMPLER RECOVERY

PIT MUD ANALYSIS

SEP 17

Gas
Oil
Mud
Water 4000
Other
Pressure 800
TOTAL 4000

Chlorides 800
Resistivity ohms@ F
Viscosity 56
Mud Wt. 9.0
Filtrate 7.2
Other

CONFIDENTIAL

SAMPLER ANALYSIS

PIPE RECOVERY

TOP

Resistivity 0.058 ohms@ 98 F
Chlorides 92000 ppm.
Gravity corrected @60F

Resistivity 0.059 ohms@ 97 F
Chlorides 90000 ppm

MIDDLE

Resistivity 0.059 ohms@ 97 F
Chlorides 90000 ppm

BOTTOM

Resistivity 0.058 ohms@ 98 F
Chlorides 92000 ppm

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ORIGINAL

Test Ticket

No 6070

Well Name & No. <u>Spikes #1-29</u>	Test No. <u>#1</u>	Date <u>8-21-93</u>
Company <u>Petroleum Inc.</u>	Zone Tested <u>Keys</u>	
Address <u>301 N. Main Suite #900 Wichita Ks. 67202</u>	Elevation <u>3420 (KB)</u>	
Co. Rep./Geo. <u>Jon Christensen</u>	Cont. <u>Trans Rec Drly</u>	Est. Ft. of Pay <u>8'</u>
Location: Sec. <u>29</u>	Twp. <u>29</u>	Rge. <u>41</u>
	Co. <u>Stanton</u>	State <u>Ks.</u>
No. of Copies <u>9</u>	Distribution Sheet <u>X</u>	Yes <u> </u> No <u> </u> Turnkey <u> </u> Yes <u> </u> No <u> </u> Evaluation <u> </u>

Interval Tested <u>5306-5420</u>	Drill Pipe Size <u>4.5 X-Hole</u>
Anchor Length <u>KCC 114'</u>	Top Choke — 1" <u> </u> Bottom Choke — 1/4" <u> </u>
Top Packer Depth <u>SEP 17 5301</u>	Hole Size — 7 7/8" <u> </u> Rubber Size — 6 3/4" <u> </u>
Bottom Packer Depth <u>5306</u>	Wt. Pipe I.D. — 2.7 Ft. Run <u> </u>
Total Depth <u>CONFIDENTIAL 5420</u>	Drill Collar — 2.25 Ft. Run <u>556'</u>
Mud Wt. <u>9.0</u> lb/gal.	Viscosity <u>56</u> Filtrate <u>7.2</u>
Tool Open @ <u>9:20 AM</u> Initial Blow <u>Strong blow - BOB in 1 1/2 min.</u>	
<u>ISI - Bled off blow - weak blow - built to 3 1/2 in.</u>	
Final Blow <u>Strong blow - BOB in 7 min.</u>	
<u>FSI - Bled off blow - weak blow - built to 1 1/2 in.</u>	
Recovery — Total Feet <u>1196'</u>	Feet of Gas In Pipe <u>300'</u> Flush Tool? <u>NO</u>

Rec.	Feet Of	%gas	%oil	%water	%mud

BHT <u>131</u> °F Gravity	°API @ <u> </u> °F Corrected Gravity	°API
RW <u>.058</u> @ <u>98</u> °F Chlorides <u>92,000</u> ppm Recovery	Chlorides <u>800</u> ppm System	
(A) Initial Hydrostatic Mud <u>2580</u> PSI	AK1 Recorder No. <u>5495</u> Range <u>4200</u>	
(B) First Initial Flow Pressure <u>203</u> PSI	@ (depth) <u>5309</u> w/Clock No. <u>25813</u>	
(C) First Final Flow Pressure <u>323</u> PSI	AK1 Recorder No. <u>11038</u> Range <u>5075</u>	
(D) Initial Shut-In Pressure <u>995</u> PSI	@ (depth) <u>5417</u> w/Clock No. <u>25814</u>	
(E) Second Initial Flow Pressure <u>442</u> PSI	AK1 Recorder No. <u> </u> Range <u> </u>	
(F) Second Final Flow Pressure <u>585</u> PSI	@ (depth) <u> </u> w/Clock No. <u> </u>	
(G) Final Shut-In Pressure <u>995</u> PSI	Initial Opening <u>15</u> Test <u>X</u> <u>700</u>	
(H) Final Hydrostatic Mud <u>2503</u> PSI	Initial Shut-In <u>30</u> Jars <u>X</u> <u>200</u>	

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Final Flow <u>60</u>	Safety Joint <u>X</u> <u>50</u>
Final Shut-In <u>120</u>	Straddle <u> </u>
	Circ. Sub <u> </u>
	Sampler <u>X</u> <u>200</u>

RELEASED
OCT 12 1994

Approved By Billy Daugherty
Our Representative Tom Horacek

Extra Packer
Other (extra copies)
TOTAL PRICE \$ 1150.00