

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name MILLER "B" #6-14 Test No. 1 Date 1/21/93
Company A.L. ABERCROMBIE, INC Zone L/KC
Address 150 N MAIN SWT #801 WICHITA KS 67202-1383 Elevation 2494
Co. Rep./Geo. MARK GALYON Cont. ABERCROMBIE RIG #4 Est. Ft. of Pay 4
Location: Sec. 14 Twp. 15S Rge. 29W Co. GOVE State KS

Interval Tested	<u>3883-3899</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>16</u>	Wt. Pipe I.D. - 2.7 Ft. Run	<u>632</u>
Top Packer Depth	<u>3878</u>	Drill Collar - 2.25 Ft. Run	<u>8.9</u>
Bottom Packer Depth	<u>3883</u>	Mud Wt.	<u>45</u> lb/Gal.
Total Depth	<u>3899</u>	Viscosity	<u>45</u> Filtrate <u>9.6</u>

Tool Open @ 3:10 AM Initial Blow FAIR TO STRONG BLOW OFF BOTTOM IN 9 MINUTES
ISI: bled off blow - SURFACE RETURN DIED IN 10 MINUTES
Final Blow WEAK TO FAIR BLOW OFF BOTTOM IN 25 MINUTES
FSI: bled off blow - SURFACE RETURN DIED IN 20 MINUTES

Recovery - Total Feet 207 Flush Tool? NO

Rec. <u>250</u>	Feet of	<u>GAS IN PIPE ABOVE FLUID</u>
Rec. <u>130</u>	Feet of	<u>CLEAN GASSY OIL-60%GAS/40%OIL</u>
Rec. <u>15</u>	Feet of	<u>GASSY OIL CUT MUD-15%GAS/25%OIL/60%MUD</u>
Rec. <u>62</u>	Feet of	<u>GASSY OIL CUT MUD-25%GAS/25%OIL/50%MUD</u>
Rec. _____	Feet of	_____

BHT 114 °F Gravity 35 °API @ 70 °F Corrected Gravity 34 °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 2000 ppm System

(A) Initial Hydrostatic Mud 1866.9 PSI AK1 Recorder No. 13309 Range 4700

(B) First Initial Flow Pressure 25.4 PSI @ (depth) 3889 w / Clock No. 27566

(C) First Final Flow Pressure 36.9 PSI AK1 Recorder No. 13276 Range 4000

(D) Initial Shut-in Pressure 155.7 PSI @ (depth) 3894 w / Clock No. 25810

(E) Second Initial Flow Pressure 60.4 PSI AK1 Recorder No. _____ Range _____

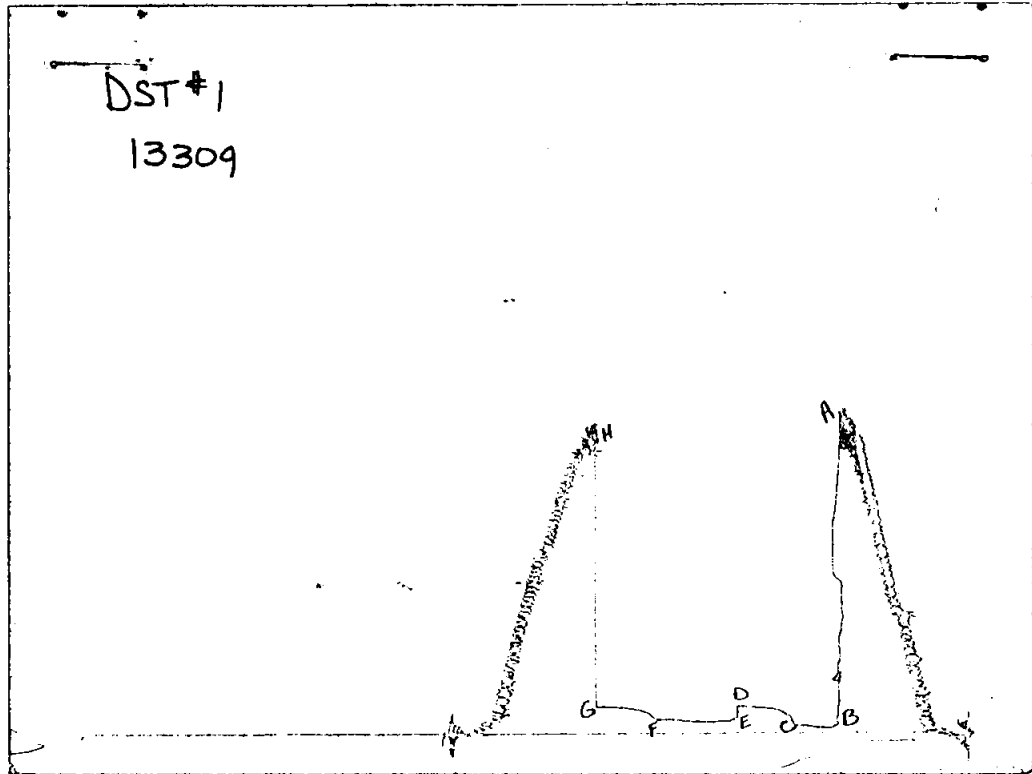
(F) Second Final Flow Pressure 71.2 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 155.7 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 1844.7 PSI Initial Shut-in 45 Final Shut-in 45

Our Representative ROD STEINBRINK

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1865	1866.9
(B) FIRST INITIAL FLOW PRESSURE	23	25.4
(C) FIRST FINAL FLOW PRESSURE	35	36.9
(D) INITIAL CLOSED-IN PRESSURE	153	155.7
(E) SECOND INITIAL FLOW PRESSURE	58	60.4
(F) SECOND FINAL FLOW PRESSURE	70	71.2
(G) FINAL CLOSED-IN PRESSURE	153	155.7
(H) FINAL HYDROSTATIC MUD	1841	1844.7

CALCULATED RECOVERY ANALYSIS

WEIGHT PIPE

DST #

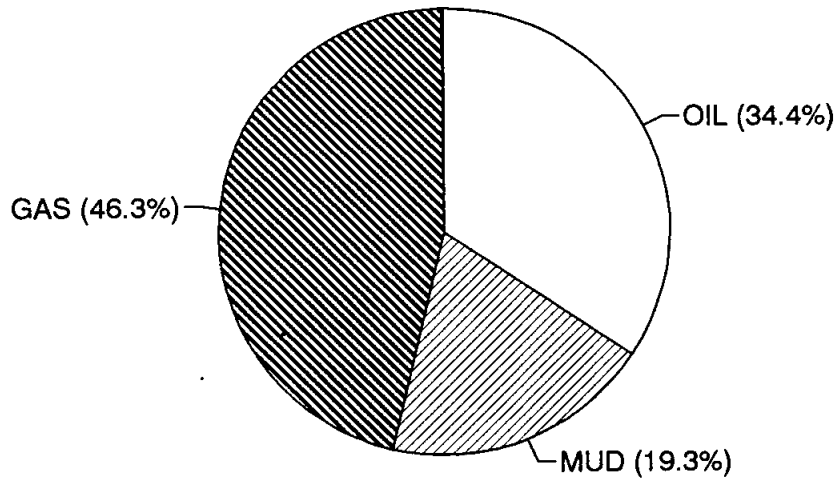
1

TICKET #

5809

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	130	60	78	40	52	0	0	0	0
2	15	15	2.25	25	3.75	0	0	60	9
3	62	25	15.5	25	15.5	0	0	50	31
4			0		0		0		0
5			0		0		0		0
TOTAL	207	46.26	95.75	34.42029	71.25	0	0	19.324	40

			HRS OPEN	BBL/DAY
BBL OIL=	0.49875	*	1.5	7.98
BBL WATER=	0	*		0
BBL MUD=	0.28			
BBL GAS=	0.67025			



TRILOBITE TESTING L.L.C.

P.O. BOX 362 • Hays, Kansas 67601

Test Ticket

No 5809

Well Name & No.	Miller 'B' #6-14	Test No.	1	Date	1-21-93
Company	A.L. Abercrombie, Inc.	Zone Tested	L/KC		
Address	150 N. Main Suite 801 Wichita, KS. 67202	Elevation	2494 (KB)		
Co. Rep./Geo.	Mark Galyon	Cont.	Abercrombie #4	Est. Ft. of Pay	4'
Location: Sec.	14	Twp.	15 ^S	Rge.	29 ^W
				Co.	Gove
				State	KS
No. of Copies	Normal	Distribution Sheet	Yes <input checked="" type="checkbox"/>	No Turnkey	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
				Evaluation	

Interval Tested	3883 - 3899	Drill Pipe Size	4 1/2" XH
Anchor Length	16'	Top Choke - 1"	Bottom Choke - 3/4"
Top Packer Depth	3878	Hole Size - 7 7/8"	Rubber Size - 6 3/4"
Bottom Packer Depth	3883	Wt. Pipe I.D. - 2.7 Ft. Run	632'
Total Depth	3899	Drill Collar - 2.25 Ft. Run	—
Mud Wt.	8.9	lb/gal.	Viscosity 45
			Filtrate 9.6

Tool Open @ 3:10 am. Initial Blow Fair to strong blow off bottom in 9 mins.

ISI: Bled off blow - surface return died in 10 mins.

Final Blow Weak to fair blow off bottom in 25 mins.

FSI: Bled off blow - surface return died in 20 mins.

Recovery - Total Feet 207' Feet of Gas in Pipe 250' Above Fluid Flush Tool? No

Rec. 130'	Feet Of	CGO	60 %gas	40 %oil	— %water	— %mud
Rec. —	Feet Of	—	%gas	%oil	%water	%mud
Rec. 15'	Feet Of	GOCM	15 %gas	25 %oil	— %water	60 %mud
Rec. —	Feet Of	—	%gas	%oil	%water	%mud
Rec. 62'	Feet Of	GOCM	25 %gas	25 %oil	— %water	50 %mud

BHT 114° °F Gravity 35 °API @ 70° °F Corrected Gravity 34 °API

RW @ °F Chlorides ppm Recovery Chlorides 2,000 ppm System

(A) Initial Hydrostatic Mud 1865 PSI Ak1 Recorder No. 13309 Range 4700

(B) First Initial Flow Pressure 23 PSI @ (depth) 3889 w/Clock No. 27566

(C) First Final Flow Pressure 35 PSI AK1 Recorder No. 13~~309~~²⁷⁶ Range 4000

(D) Initial Shut-In Pressure 153 PSI @ (depth) 3894 w/Clock No. 25810

(E) Second Initial Flow Pressure 58 PSI AK1 Recorder No. — Range —

(F) Second Final Flow Pressure 70 PSI @ (depth) — w/Clock No. —

(G) Final Shut-In Pressure 153 PSI Initial Opening 30 Test 6:00:00

(H) Final Hydrostatic Mud 1841 PSI Initial Shut-in 45 Jars

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Final Flow 60 Safety Joint

Final Shut-in 45 Straddle

Circ. Sub N/C

Sampler

Extra Packer

Other

Approved By 

Our Representative Rod Steinbrink

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name MILLER "B" #6-14 Test No. 2 Date 1/21/93
Company A.L. ABERCROMBIE, INC Zone L/KC
Address 150 N MAIN SWT #801 WICHITA KS 67202-1383 Elevation 2494
Co. Rep./Geo. MARK GALYON Cont. ABERCROMBIE RIG #4 Est. Ft. of Pay 5
Location: Sec. 14 Twp. 15S Rge. 29W Co. GOVE State KS

Interval Tested 3908-3922 Drill Pipe Size 4.5" XH
Anchor Length 14 Wt. Pipe I.D. - 2.7 Ft. Run 632
Top Packer Depth 3903 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3908 Mud Wt. 9.1 lb/Gal.
Total Depth 3922 Viscosity 46 Filtrate 10.4

Tool Open @ 3:40 PM Initial Blow STRONG BLOW OFF BOTTOM IN 1 MINUTE
ISI: BLED OFF BLOW - SURFACE RETURN BUILT TO BOTTOM IN 30 MINUTES
Final Blow FAIR TO STRONG OFF BOTTOM IN 5 MINUTES
FSI: BLED OFF BLOW - WEAK RETURN BUILT TO 10" BLOW

Recovery - Total Feet 820 Flush Tool? NO

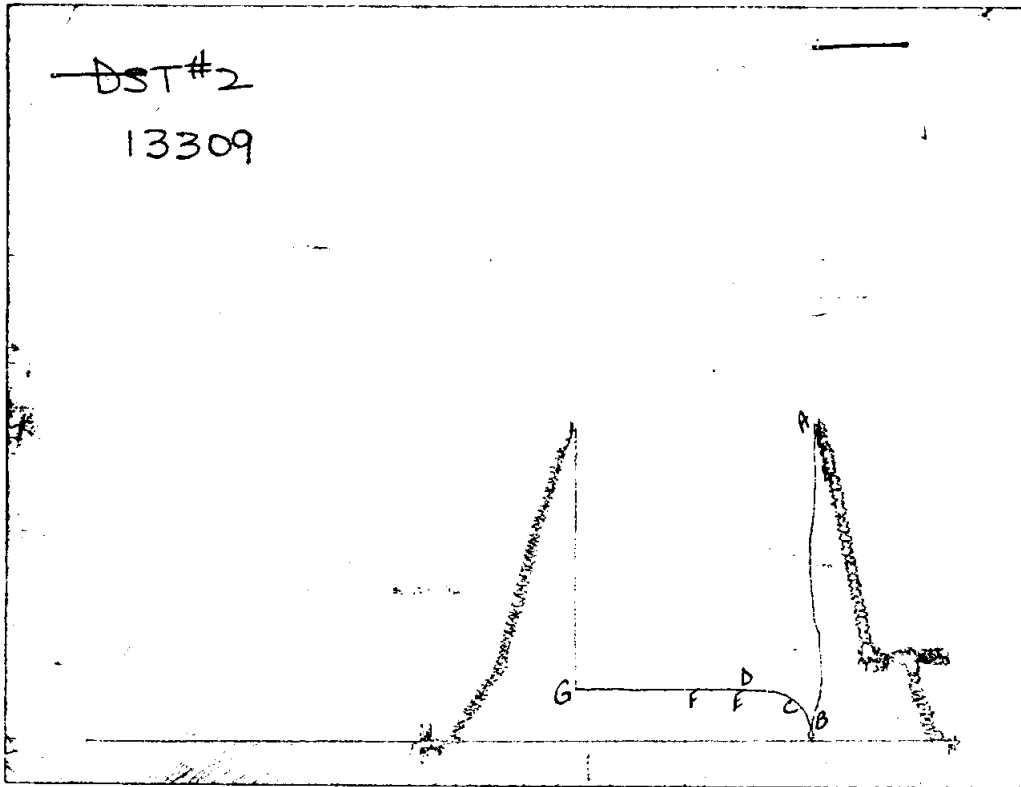
Rec. 795 Feet of GAS IN PIPE ABOVE FLUID
Rec. 570 Feet of CLEAN GASSY OIL-15%GAS/85%OIL
Rec. 125 Feet of GSY OIL & WTR CUT MUD-15%GAS/15%OIL/20%WTR/50%MUD
Rec. 125 Feet of GSY OIL & MUD CUT WATER-20%GAS/5%OIL/55%WTR/20%MUD
Rec. _____ Feet of _____

BHT 126 °F Gravity 34 °API @ 62 °F Corrected Gravity 34 °API
RW 0.4 @ 62 °F Chlorides 19000 ppm Recovery Chlorides 2000 ppm System

(A) Initial Hydrostatic Mud 1916.3 PSI AK1 Recorder No. 13309 Range 4700
(B) First Initial Flow Pressure 12.5 PSI @ (depth) 3912 w / Clock No. 27566
(C) First Final Flow Pressure 285.7 PSI AK1 Recorder No. 13276 Range 4000
(D) Initial Shut-in Pressure 310.4 PSI @ (depth) 3917 w / Clock No. 25810
(E) Second Initial Flow Pressure 310.4 PSI AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure 310.4 PSI @ (depth) _____ w / Clock No. _____
(G) Final Shut-in Pressure 310.4 PSI Initial Opening 30 Final Flow 60
(H) Final Hydrostatic Mud 1891.2 PSI Initial Shut-in 45 Final Shut-in 45

Our Representative ROD STEINBRINK

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1912	1916.3
(B) FIRST INITIAL FLOW PRESSURE	11	12.5
(C) FIRST FINAL FLOW PRESSURE	283	285.7
(D) INITIAL CLOSED-IN PRESSURE	306	310.4
(E) SECOND INITIAL FLOW PRESSURE	306	310.4
(F) SECOND FINAL FLOW PRESSURE	306	310.4
(G) FINAL CLOSED-IN PRESSURE	306	310.4
(H) FINAL HYDROSTATIC MUD	1889	1891.2

CALCULATED RECOVERY ANALYSIS

WEIGHT PIPE

DST #

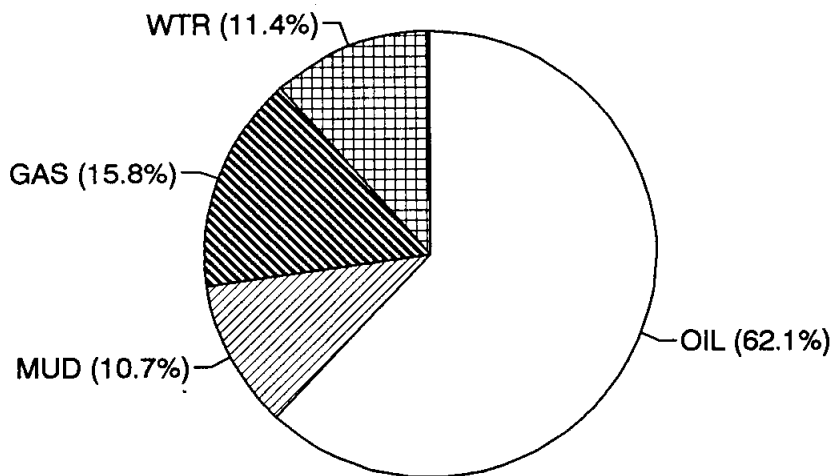
2

TICKET #

5810

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	570	15	85.5	85	484.5	0	0	0	0
2	125	15	18.75	15	18.75	20	25	50	62.5
3	125	20	25	5	6.25	55	68.75	20	25
4			0		0		0		0
5			0		0		0		0
TOTAL	820	15.76	129.25	62.134146	509.5	11.433	93.75	10.671	87.5

		HRS OPEN	BBL/DAY
BBL OIL=	3.5665	*	1.5
BBL WATER=	0.65625	*	10.5
BBL MUD=	0.6125		
BBL GAS=	0.90475		



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 5810

Well Name & No. <u>Miller 'B' #6-14</u>	Test No. <u>2</u>	Date <u>1-21-93</u>
Company <u>A.L. Abercrombie, Inc.</u>	Zone Tested <u>L/KC</u>	
Address <u>150 N. Main Suite 801 Wichita, KS. 67202</u>	Elevation <u>2494 (KB)</u>	
Co. Rep./Geo. <u>Mark Galyon</u>	cont. <u>Abercrombie #4</u>	Est. Ft. of Pay <u>5'</u>
Location: Sec. <u>14</u>	Twp. <u>15 S</u>	Rge. <u>29 W</u> Co. <u>Gove</u> State <u>KS.</u>
No. of Copies <u>Normal</u>	Distribution Sheet <u>Yes X</u>	No Turnkey <u>Yes X</u> No <u>No</u> Evaluation <u>No</u>

Interval Tested <u>3908 - 3922</u>	Drill Pipe Size <u>4 1/2" XH</u>
Anchor Length <u>14'</u>	Top Choke — 1" Bottom Choke — 3/4"
Top Packer Depth <u>3903</u>	Hole Size — 7 7/8" Rubber Size — 6 3/4"
Bottom Packer Depth <u>3908</u>	Wt. Pipe I.D. — 2.7 Ft. Run <u>632'</u>
Total Depth <u>3922</u>	Drill Collar — 2.25 Ft. Run <u>—</u>
Mud Wt. <u>9.1</u> lb/gal.	Viscosity <u>46</u> Filtrate <u>10.4</u>

Tool Open @ 3:40 pm Initial Blow Strong blow off bottom in 1 min.
 ISI: Bled off blow - surface return built to bottom in 30 mins.

Final Blow Fair to strong off bottom in 5 mins.
 FSI: Bled off blow - weak return built to 10" blow.

Recovery — Total Feet <u>820'</u>	Feet of Gas in Pipe <u>795' Above Fluid</u>	Flush Tool? <u>No</u>
Rec. <u>570'</u> Feet Of <u>CGD</u>	<u>15</u> %gas <u>85</u> %Oil <u>—</u> %water <u>—</u> %mud	
Rec. <u>125'</u> Feet Of <u>GDWCM</u>	<u>15</u> %gas <u>15</u> %Oil <u>20</u> %water <u>50</u> %mud	
Rec. <u>125'</u> Feet Of <u>GDMCW</u>	<u>20</u> %gas <u>5</u> %Oil <u>55</u> %water <u>20</u> %mud	

BHT 126° °F Gravity 34 °API @ 62° °F Corrected Gravity 33.8 °API

RW .40 @ 62° °F Chlorides 19,000 ppm Recovery Chlorides 2,000 ppm System

(A) Initial Hydrostatic Mud <u>1912</u>	PSI	AK1 Recorder No. <u>13309</u>	Range <u>4700</u>
(B) First Initial Flow Pressure <u>11</u>	PSI	@ (depth) <u>3912</u>	w/Clock No. <u>27566</u>
(C) First Final Flow Pressure <u>283</u>	PSI	AK1 Recorder No. <u>13276</u>	Range <u>4000</u>
(D) Initial Shut-in Pressure <u>306</u>	PSI	@ (depth) <u>3917</u>	w/Clock No. <u>25810</u>
(E) Second Initial Flow Pressure <u>306</u>	PSI	AK1 Recorder No. <u>—</u>	Range <u>—</u>
(F) Second Final Flow Pressure <u>306</u>	PSI	@ (depth) <u>—</u>	w/Clock No. <u>—</u>
(G) Final Shut-in Pressure <u>306</u>	PSI	Initial Opening <u>30</u>	Test <u>600</u>
(H) Final Hydrostatic Mud <u>1889</u>	PSI	Initial Shut-in <u>45</u>	Jars <u>—</u>

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Final Flow <u>60</u>	Safety Joint <u>—</u>
Final Shut-in <u>45</u>	Straddle <u>—</u>
	Circ. Sub <u>X</u> <u>N/C</u>
	Sampler <u>—</u>
	Extra Packer <u>—</u>
	Other <u>—</u>

Approved By Mark Galyon

Our Representative Rod Steinbrink

TOTAL DOLLS 600.00

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name MILLER "B" #6-14 Test No. 3 Date 1/22/93
Company A.L. ABERCROMBIE, INC Zone L/KC
Address 150 N MAIN SWT #801 WICHITA KS 67202-1383 Elevation 2494
Co. Rep./Geo. MARK GALYON Cont. ABERCROMBIE RIG #4 Est. Ft. of Pay _____
Location: Sec. 14 Twp. 15S Rge. 29W Co. GOVE State KS

Interval Tested 3862-3882 Drill Pipe Size 4.5" XH
Anchor Length 20 Wt. Pipe I.D. - 2.7 Ft. Run 570
Top Packer Depth 3857-3862 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3882 Mud Wt. 9.1 lb/Gal.
Total Depth 3970 RTD Viscosity 50 Filtrate 9.6

Tool Open @ 9:25 AM Initial Blow WEAK BLOW BUILT TO 1"
ISI: NO RETURN BLOW
Final Blow WEAK RETURN STEADY SURFACE BLOW THROUGHOUT

Recovery - Total Feet 20 Flush Tool? NO

Rec. 1 Feet of FREE OIL
Rec. 19 Feet of DRILLING MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 119 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 2200 ppm System

(A) Initial Hydrostatic Mud 1926.3 PSI AK1 Recorder No. 13339 Range 4025

(B) First Initial Flow Pressure 12.5 PSI @ (depth) 3869 w / Clock No. 17640

(C) First Final Flow Pressure 23.6 PSI AK1 Recorder No. 13309 Range 4700

(D) Initial Shut-in Pressure 401.2 PSI @ (depth) 3874 w / Clock No. 25810

(E) Second Initial Flow Pressure 42.3 PSI AK1 Recorder No. 13276 Range 4000

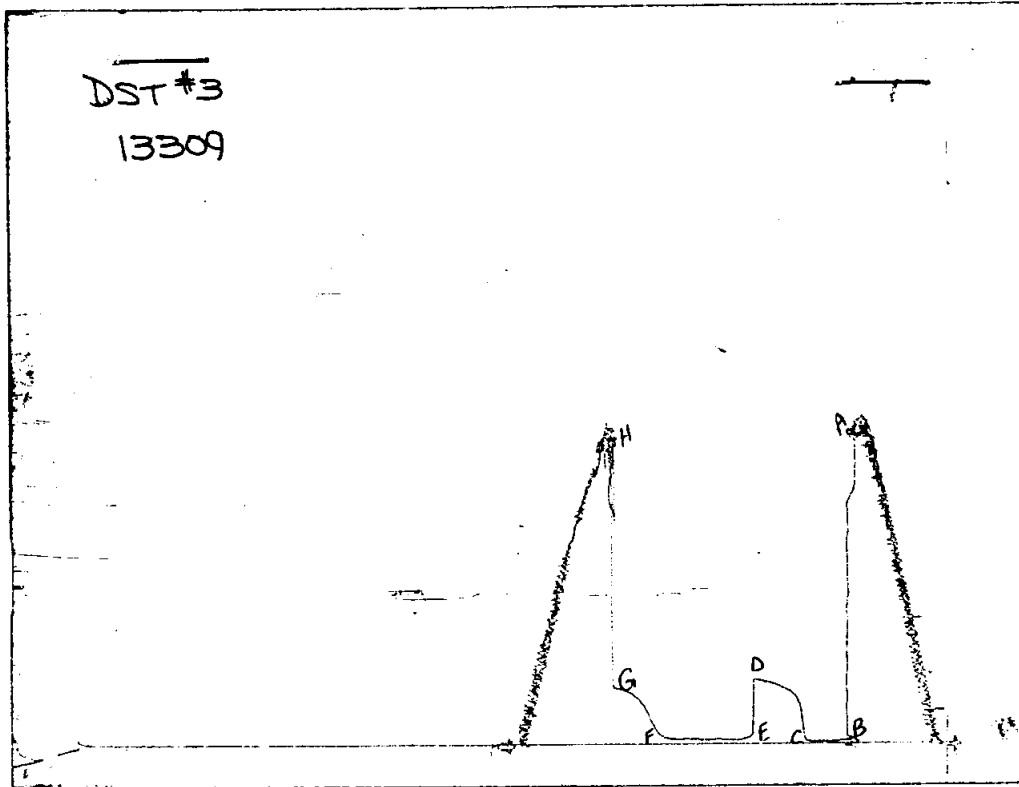
(F) Second Final Flow Pressure 42.3 PSI @ (depth) 3965 w / Clock No. 31154

(G) Final Shut-in Pressure 365.9 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 1887.5 PSI Initial Shut-in 45 Final Shut-in 45

Our Representative ROD STEINBRINK

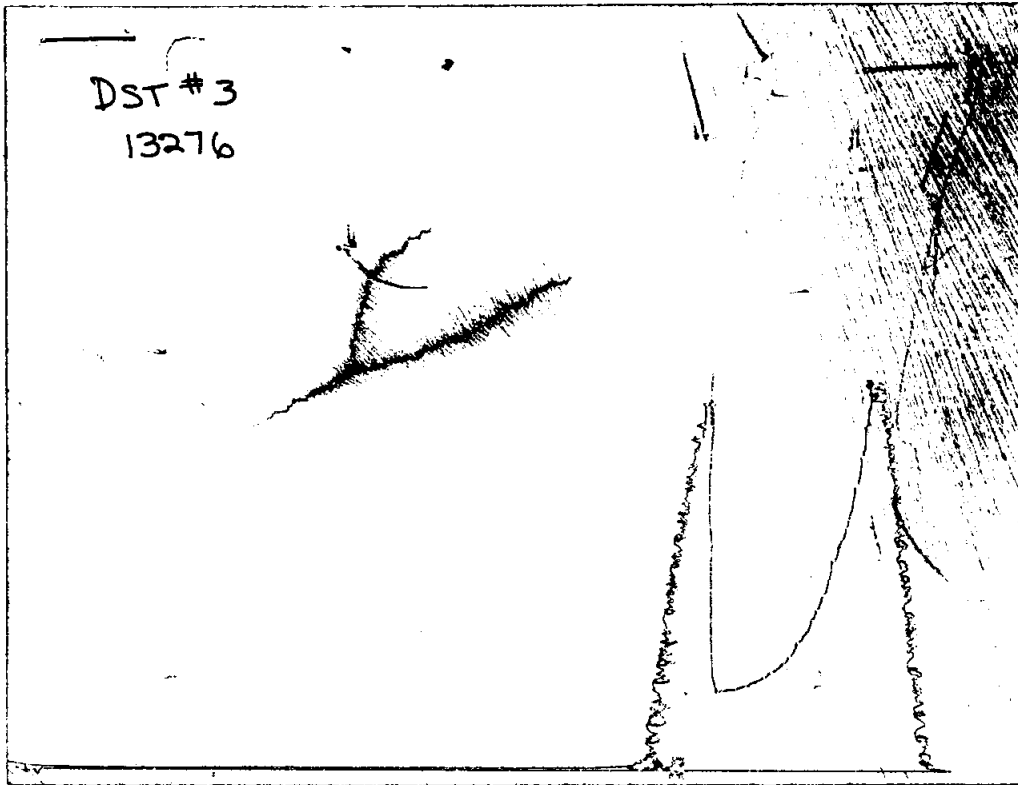
CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1922	1926.3
(B) FIRST INITIAL FLOW PRESSURE	10	12.5
(C) FIRST FINAL FLOW PRESSURE	20	23.6
(D) INITIAL CLOSED-IN PRESSURE	395	401.2
(E) SECOND INITIAL FLOW PRESSURE	41	42.3
(F) SECOND FINAL FLOW PRESSURE	41	42.3
(G) FINAL CLOSED-IN PRESSURE	363	365.9
(H) FINAL HYDROSTATIC MUD	1882	1887.5

CHART PAGE



This is an actual photograph of recorder chart

FIELD
READING

OFFICE
READING

- (A) INITIAL HYDROSTATIC MUD
- (B) FIRST INITIAL FLOW PRESSURE
- (C) FIRST FINAL FLOW PRESSURE
- (D) INITIAL CLOSED-IN PRESSURE
- (E) SECOND INITIAL FLOW PRESSURE
- (F) SECOND FINAL FLOW PRESSURE
- (G) FINAL CLOSED-IN PRESSURE
- (H) FINAL HYDROSTATIC MUD

TRILOBITE TESTING L.L.C.

P.O. BOX 362 • Hays, Kansas 67601

Test Ticket

No 5811

Well Name & No.	Miller 'B' #6-14	Test No.	3	Date	1-22-93					
Company	A.L. Abercrombie, Inc.	Zone Tested	L/KC							
Address	150 N. Main Suite 801 Wichita, KS 67202	Elevation	2494 (KB)							
Co. Rep./Geo.	Mark Galyon	Cont.	Abercrombie #4	Est. Ft. of Pay						
Location: Sec.	14	Twp.	15 S	Rge.	29 W	Co.	Gove	State	KS	
No. of Copies	Normal	Distribution Sheet	Yes	X	No	Turnkey	Yes	X	No	Evaluation

Interval Tested	3862 - 3882	Drill Pipe Size	4 1/2" XH		
Anchor Length	20'	Top Choke - 1"	Bottom Choke - 3/4"		
Top Packer Depth	3857 - 3862	Hole Size - 7 7/8"	Rubber Size - 6 3/4"		
Bottom Packer Depth	3882	Wt. Pipe I.D. - 2.7 Ft. Run	570'		
Total Depth	(RTD) 3970	Drill Collar - 2.25 Ft. Run			
Mud Wt.	9.1 lb/gal.	Viscosity	50	Filtrate	9.6
Tool Open @	9:25 am.	Initial Blow	Weak blow built to 1".		
ISI:	No return blow.				
Final Blow	Weak return steady surface blow throughout.				

Recovery - Total Feet	20'	Feet of Gas in Pipe		Flush Tool?	No.		
Rec.	1'	Feet Of	Free Oil	%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.	19'	Feet Of	Drlg. Mud	%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 2,200 ppm System

- (A) Initial Hydrostatic Mud 1922 PSI AK1 Recorder No. 13339 Range 4025
- (B) First Initial Flow Pressure 10 PSI @ (depth) 3869 w/Clock No. 17640
- (C) First Final Flow Pressure 20 PSI AK1 Recorder No. 13309 Range 4700
- (D) Initial Shut-In Pressure 395 PSI @ (depth) 3874 w/Clock No. 25810
- (E) Second Initial Flow Pressure 41 PSI AK1 Recorder No. 13276 Range 4000
- (F) Second Final Flow Pressure 41 PSI @ (depth) 3965 w/Clock No. 31154
- (G) Final Shut-In Pressure 363 PSI Initial Opening 30 Test 600
- (H) Final Hydrostatic Mud 1882 PSI Initial Shut-in 45 Jars

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Final Flow	60	Safety Joint	
Final Shut-in	45	Straddle	X 2500
		Circ. Sub	X N/C
		Sampler	
		Extra Packer	X 150
		Other	

Approved By Mark Galyon

Our Representative Rod Steinbrink