

## DRILL-STEM TEST DATA

<b>Well Name:</b>	JAMES #1			
<b>Company :</b>	PETEX, INC			
<b>Location - Sec:</b>	24	<b>Twp:</b>	10S	<b>Rge:</b> 33W
<b>County:</b>	THOMAS	<b>State:</b>	KS	
<b>Date:</b>	05/31/95			

TRILOBITE TESTING L.L.C.

OPERATOR : PETEX INC.  
 WELL NAME: #1 James  
 LOCATION : 24-10S-33W  
 INTERVAL : 4088.00 To 4108.00 ft

DATE 5-21-95

KB 3128.00 ft TICKET NO: 7904 DST #1  
 GR 3123.00 ft FORMATION: Lansing 35' zone  
 TD 4108.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----		
PF	30 Rec.	24174	24174	22150			PF Fr.	30 to	hr
SI	30 Range(Psi )	3050.0	3050.0	3925.0	0.0	0.0	IS Fr.	30 to	hr
SF	30 Clock(hrs)	23839	23839	22336			SF Fr.	30 to	hr
FS	30 Depth(ft )	4103.0	4103.0	4091.0	0.0	0.0	FS Fr.	30 to	hr

	Field	1	2	3	4	
A. Init Hydro	1919.0	1912.0	0.0	0.0	0.0	T STARTED 1026 hr
B. First Flow	67.0	47.0	0.0	0.0	0.0	T ON BOTM 1133 hr
B1. Final Flow	112.0	89.0	0.0	0.0	0.0	T OPEN 1138 hr
C. In Shut-in	1085.0	1067.0	0.0	0.0	0.0	T PULLED 1338 hr
D. Init Flow	157.0	143.0	0.0	0.0	0.0	T OUT 1450 hr
E. Final Flow	202.0	176.0	0.0	0.0	0.0	
F. Fl Shut-in	1039.0	1013.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1880.0	1873.0	0.0	0.0	0.0	Tool Wt. 1600.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 52000.00 lbs
						Initial Str Wt 44000.00 lbs
						Unseated Str Wt 49000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 0.00 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 4096.00 ft
						H.W. I.D 2.70 in
						H.W. Length 474.00 ft

RECOVERY

Tot Fluid 390.00 ft of 0.00 ft in DC and 390.00 ft in DP  
 30.00 ft of SLIGHTLY GASSY OIL - 5% GAS, 95% OIL  
 60.00 ft of SLIGHTLY OIL CUT WATERY MUD - 5% OIL, 25% H2O  
 0.00 ft of 70% MUD  
 0.00 ft of  
 300.00 ft of SLIGHTLY MUDDY WATER - 90% H2O, 10% MUD  
 0.00 ft of  
 0.00 ft of  
 RW .15 @ 71 F  
 SALINITY 50000.00 P.P.M. A.P.I. Gravity 19.00

MUD DATA-----

Mud Type CHEMICAL  
 Weight 8.90 lb/cf  
 Vis. 44.00 S/L  
 W.L. 8.80 in3  
 F.C. 0.00 in  
 Mud Drop Y 15.0 ft

BLOW DESCRIPTION  
 INITIAL BLOW -

1" blow building to 10.5"

FINAL BLOW -

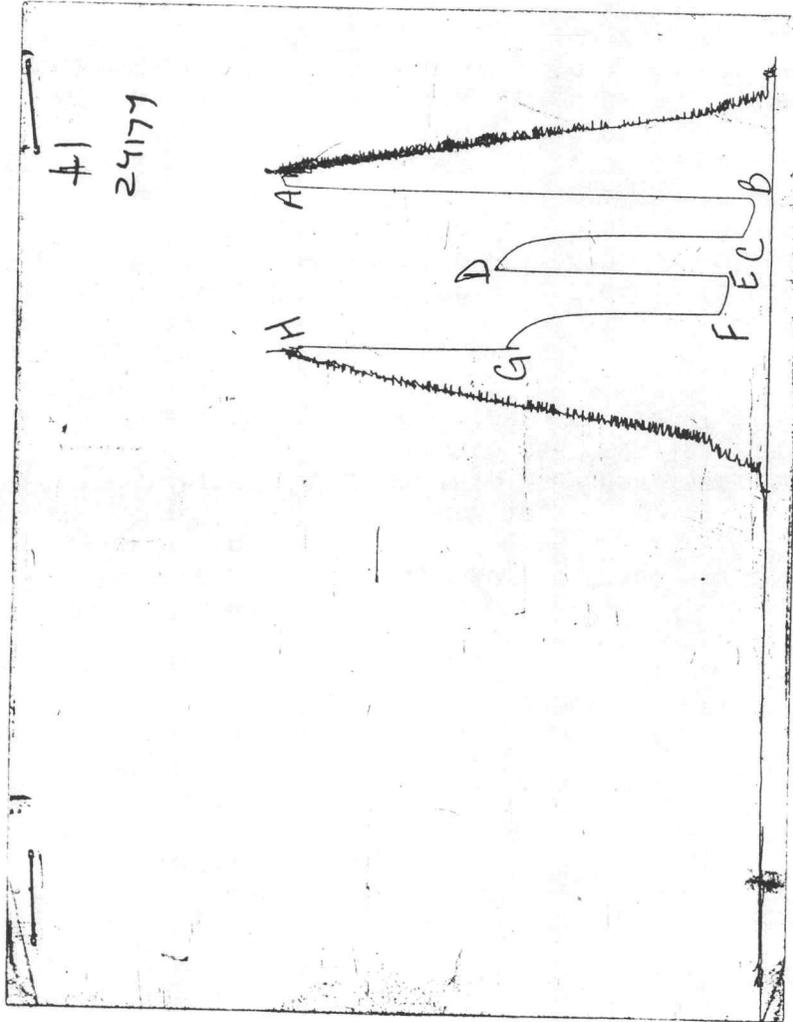
surface blow building to 8"

Amt. of fill 0.00 ft  
 Btm. H. Temp. 0.00 F  
 Hole Condition good  
 % Porosity 0.00  
 Packer Size 6.75 in  
 No. of Packers 2  
 Cushion Amt. 0.00  
 Cushion Type  
 Reversed Out N  
 Tool Chased N  
 Tester Paul Simpson  
 Co. Rep. Tom Funk/Larry  
 Contr. Abercrombie  
 Rig # 8  
 Unit #  
 Pump T.

SAMPLES:  
 SENT TO:

Test Successful: Y

CHART PAGE



This is an actual photograph of an AK1 recorder chart

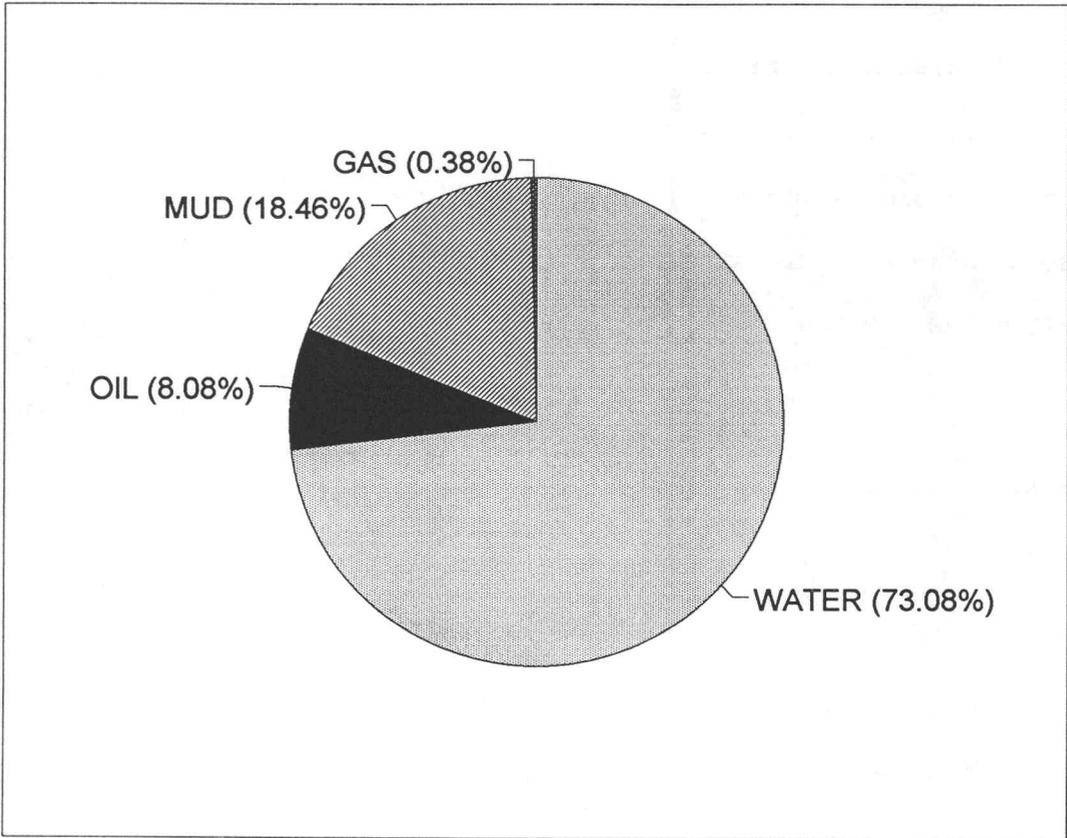
# CALCULATED RECOVERY ANALYSIS WEIGHT PIPE

DST # 1

TICKET # 7904

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	30	5	1.5	95	28.5		0		0
2	60		0	5	3	25	15	70	42
3	300		0		0	90	270	10	30
4			0		0		0		0
5			0		0		0		0
<b>TOTAL</b>	<b>390</b>	<b>0.384615</b>	<b>1.5</b>	<b>8.076923</b>	<b>31.5</b>	<b>73.07692</b>	<b>285</b>	<b>18.46154</b>	<b>72</b>

			HRS OPE	BBL/DAY
BBL OIL=	0.2205	*	1.00	5.292
BBL WAT	1.995	*		47.88
BBL MUD	0.504			
BBL GAS	0.0105			





TRILOBITE TESTING L.L.C.

OPERATOR : PETEX INC.  
 WELL NAME: #1 James  
 LOCATION : 24-10S-33W  
 INTERVAL : 4128.00 To 4155.00 ft

DATE 5-22-95  
 KB 3128.00 ft TICKET NO: 7905 DST #2  
 GR 3123.00 ft FORMATION: Lansing E-F zone  
 TD 4155.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----		
PF	30	Rec.	24174	24174	22150		PF Fr.	30 to	hr
SI	30	Range(Psi )	3050.0	3050.0	3925.0	0.0	IS Fr.	30 to	hr
SF	45	Clock(hrs)	22348	22348	22336		SF Fr.	45 to	hr
FS	45	Depth(ft )	4150.0	4150.0	4131.0	0.0	FS Fr.	45 to	hr

	Field	1	2	3	4	
A. Init Hydro	1996.0	1990.0	0.0	0.0	0.0	T STARTED 0044 hr
B. First Flow	67.0	64.0	0.0	0.0	0.0	T ON BOTM 0200 hr
B1. Final Flow	82.0	80.0	0.0	0.0	0.0	T OPEN 0205 hr
C. In Shut-in	1243.0	1236.0	0.0	0.0	0.0	T PULLED 0435 hr
D. Init Flow	119.0	118.0	0.0	0.0	0.0	T OUT 0610 hr
E. Final Flow	149.0	153.0	0.0	0.0	0.0	
F. Fl Shut-in	1243.0	1232.0	0.0	0.0	0.0	
G. Final Hydro	1942.0	1940.0	0.0	0.0	0.0	
Inside/Outside	0	0	I			

RECOVERY

Tot Fluid 250.00 ft of 0.00 ft in DC and 250.00 ft in DP  
 50.00 ft of SLIGHTLY WATERY MUD W/ FEW OIL SPOTS -  
 0.00 ft of 20% WATER, 80% MUD  
 200.00 ft of MUDDY WATER - 90% WATER, 10% MUD  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 RW .145 @ 65 F  
 SALINITY 60000.00 P.P.M. A.P.I. Gravity 0.00

TOOL DATA-----

Tool Wt.	1600.00 lbs
Wt Set On Packer	30000.00 lbs
Wt Pulled Loose	50000.00 lbs
Initial Str Wt	45000.00 lbs
Unseated Str Wt	45000.00 lbs
Bot Choke	0.75 in
Hole Size	7.88 in
D Col. ID	0.00 in
D. Pipe ID	3.80 in
D.C. Length	0.00 ft
D.P. Length	4128.00 ft
H.W. I.D	2.70 in
H.W. Length	474.00 ft

BLOW DESCRIPTION  
 INITIAL BLOW -

1/2" blow building to 5"

FINAL BLOW -

surface blow building to 5"

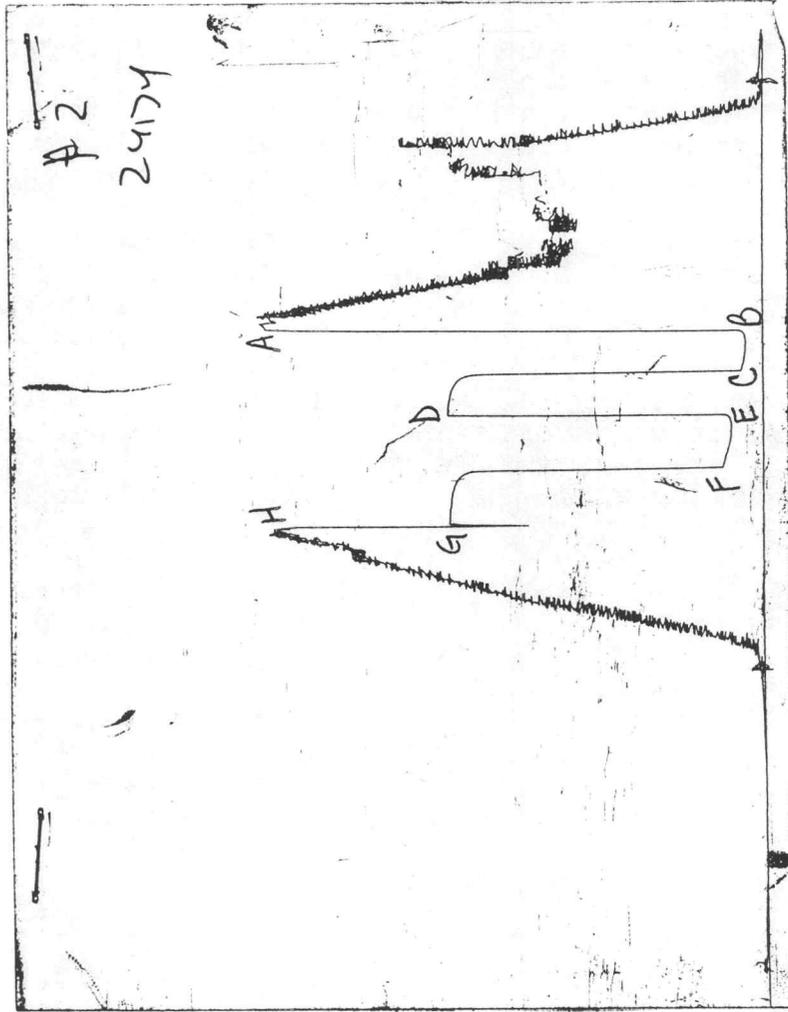
SAMPLES:  
 SENT TO:

MUD DATA-----

Mud Type	CHEMICAL
Weight	8.90 lb/ct
Vis.	47.00 S/L
W.L.	8.80 in <sup>3</sup>
F.C.	0.00 in
Mud Drop Y	10.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	122.00 F
Hole Condition	FAIR
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Paul Simpson
Co. Rep.	Tom Funk/Larry
Contr.	Abercrombie
Rig #	8
Unit #	
Pump T.	

Test Successful: Y

CHART PAGE



This is an actual photograph of an AK1 recorder chart



TRILOBITE TESTING L.L.C.

OPERATOR : PETEX INC.  
 WELL NAME: #1 James  
 LOCATION : 24-10S-33W  
 INTERVAL : 4197.00 To 4220.00 ft

DATE 5-22-95  
 KB 3128.00 ft  
 GR 3123.00 ft  
 TD 4220.00 ft  
 TICKET NO: 7906  
 FORMATION: Lansing H zone  
 TEST TYPE: CONVENTIONAL  
 DST #3

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----		
PF	30	Rec.	24174	24174	22150		PF Fr.	30 to	hr
SI	45	Range(Psi )	3050.0	3050.0	3925.0	0.0	IS Fr.	45 to	hr
SF	30	Clock(hrs)	22336	22336	23839		SF Fr.	30 to	hr
FS	30	Depth(ft )	4215.0	4215.0	4199.0	0.0	FS Fr.	30 to	hr

	Field	1	2	3	4			
A. Init Hydro	2081.0	2070.0	0.0	0.0	0.0	T STARTED	1340	hr
B. First Flow	52.0	45.0	0.0	0.0	0.0	T ON BOTM	1447	hr
B1. Final Flow	67.0	68.0	0.0	0.0	0.0	T OPEN	1451	hr
C. In Shut-in	1213.0	1216.0	0.0	0.0	0.0	T PULLED	1706	hr
D. Init Flow	112.0	108.0	0.0	0.0	0.0	T OUT	1820	hr
E. Final Flow	119.0	113.0	0.0	0.0	0.0	TOOL DATA-----		
F. Fl Shut-in	1205.0	1199.0	0.0	0.0	0.0	Tool Wt.	1700.00	lbs
G. Final Hydro	2004.0	2001.0	0.0	0.0	0.0	Wt Set On Packer	30000.00	lbs
Inside/Outside	0	0	I			Wt Pulled Loose	50000.00	lbs
						Initial Str Wt	48000.00	lbs
						Unseated Str Wt	49000.00	lbs
						Bot Choke	0.75	in
						Hole Size	7.88	in
						D Col. ID	0.00	in
						D. Pipe ID	3.80	in
						D.C. Length	0.00	ft
						D.P. Length	4180.00	ft
						H.W. I.D	2.70	in
						H.W. Length	474.00	ft

RECOVERY

Tot Fluid 200.00 ft of 0.00 ft in DC and 200.00 ft in DP  
 2.00 ft of CLEAN OIL  
 198.00 ft of SLIGHTLY MUDDY WATER  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of

RW .21 @ 66 F

SALINITY 45000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

INITIAL BLOW -

1/2" blow building to 5"

FINAL BLOW -

surface blow building to 3"

SAMPLES:

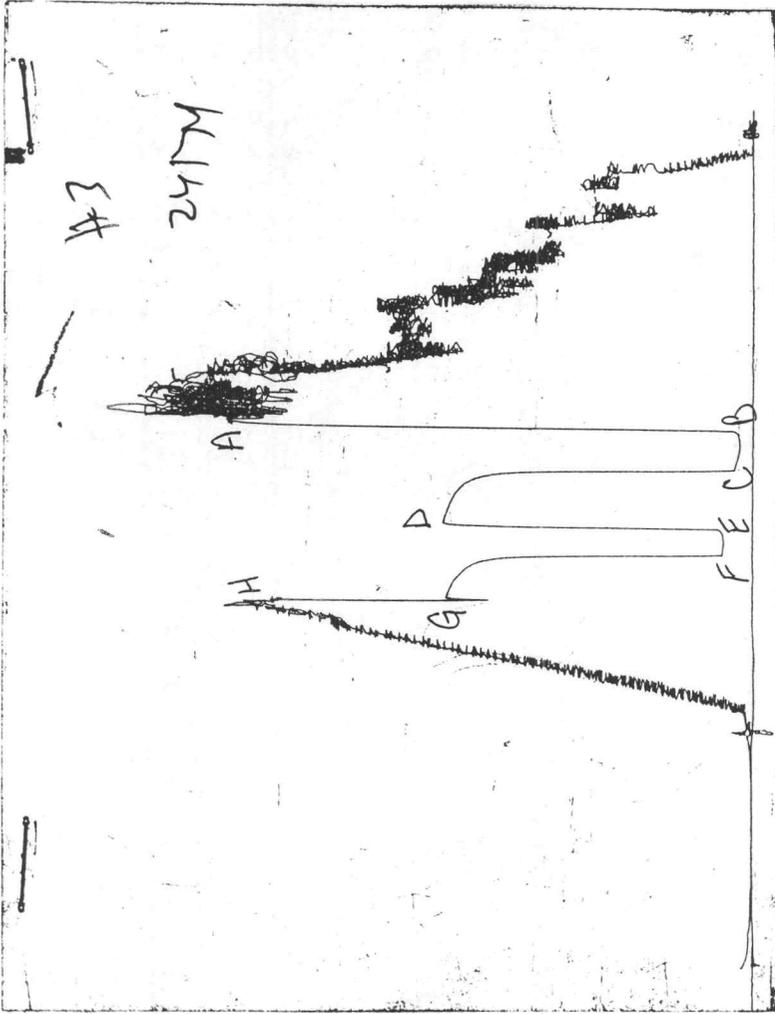
SENT TO:

MUD DATA-----  
 Mud Type CHEMICAL  
 Weight 9.10 lb/c  
 Vis. 43.00 S/L  
 W.L. 8.80 in3  
 F.C. 0.00 in  
 Mud Drop Y 10.0 ft

Amt. of fill 0.00 ft  
 Btm. H. Temp. 124.00 F  
 Hole Condition fair  
 % Porosity 0.00  
 Packer Size 6.75 in  
 No. of Packers 2  
 Cushion Amt. 0.00  
 Cushion Type  
 Reversed Out N  
 Tool Chased N  
 Tester Paul Simpson  
 Co. Rep. Tom Funk/Larry  
 Contr. Abercrombie  
 Rig # 8  
 Unit #  
 Pump T.

Test Successful: Y

CHART PAGE



This is an actual photograph of an AK1 recorder chart

\*\*\* TOOL DIAGRAM \*\*\* CONVENTIONAL

WELL NAME: #1 James

LOCATION : 24-10S-33W

TICKET No. 7906 D.S.T. No. 3 DATE 5-22-95

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 21

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 23

TOTAL TOOL ..... 44

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.	Stands	Single	Total
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D.P. ANCHOR STND.	Stands	Single	Total
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TOTAL ASSEMBLY ..... 44

D.C. ABOVE TOOLS.	Stands	Single	Total
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D.P. ABOVE TOOLS.	Stands	67	Single	1	Total	4180
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TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4232

TOTAL DEPTH ..... 4220

TOTAL DRILL PIPE ABOVE K.B. .... 12

REMARKS:

	P.O. SUB	
	C.O. SUB changeover sub	4177
	S.I. TOOL	4182
	HMV hydraulic tool	4187
	JARS	
	SAFETY JOINT	
	PACKER top packer	4192
	PACKER bottom packer	4197
	DEPTH 4197	
	STUBB	4198
	ANCHOR	
	1' perf	4199
	ak1 recorder	4199
	5' pickup sub	4204
	5' anchor	4209
	5' anchor	4214
	T.C.	
	DEPTH	
	3' anchor	4217
	ak1 recorder	4215
	BULLNOSE	
	T.D. 3' bullplug	4220

TRILOBITE TESTING L.L.C.

OPERATOR : PETEX, INC  
 WELL NAME: James #1  
 LOCATION : 24-10S-33W  
 INTERVAL : 4284.00 To 4313.00 ft

DATE 05/29/95  
 KB 3128.00 ft TICKET NO: 7907 DST #4  
 GR 3123.00 ft FORMATION: "K" LKC  
 TD 4313.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	24174	24174	22150			PF Fr. 30 to hr
SI 45	Range(Psi )	3350.0	3350.0	3925.0	0.0	0.0	IS Fr. 45 to hr
SF 45	Clock(hrs)	22336	22336	23839			SF Fr. 45 to hr
FS 60	Depth(ft )	4309.0	4309.0	4288.0	0.0	0.0	FS Fr. to 1 hr

	Field	1	2	3	4	
A. Init Hydro	2182.0	2190.0	2140.0	0.0	0.0	T STARTED 1700 hr
B. First Flow	74.0	70.0	124.0	0.0	0.0	T ON BOTM 1810 hr
B1. Final Flow	171.0	170.0	220.0	0.0	0.0	T OPEN 1815 hr
C. In Shut-in	1160.0	1162.0	1147.0	0.0	0.0	T PULLED 2115 hr
D. Init Flow	224.0	226.0	220.0	0.0	0.0	T OUT 2230 hr
E. Final Flow	315.0	308.0	325.0	0.0	0.0	
F. Fl Shut-in	1137.0	1131.0	1108.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2050.0	2071.0	2060.0	0.0	0.0	Tool Wt. 2000.00 lbs
Inside/Outside	I	I	O			Wt Set On Packer 30000.00 lbs

RECOVERY

Tot Fluid 650.00 ft of 0.00 ft in DC and 650.00 ft in DP  
 30.00 ft of MUDDY WATER W/ SHOW OF OIL ON TOP  
 620.00 ft of MUDDY WATER  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of

RW 1.05 @ 80 F

SALINITY 90000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

INITIAL BLOW -  
 STRONG, BOTTOM OF BUCKET IN 25 MIN

FINAL BLOW -

STRONG, BOTTOM OF BUCKET IN 40 MIN

SAMPLES:  
 SENT TO:

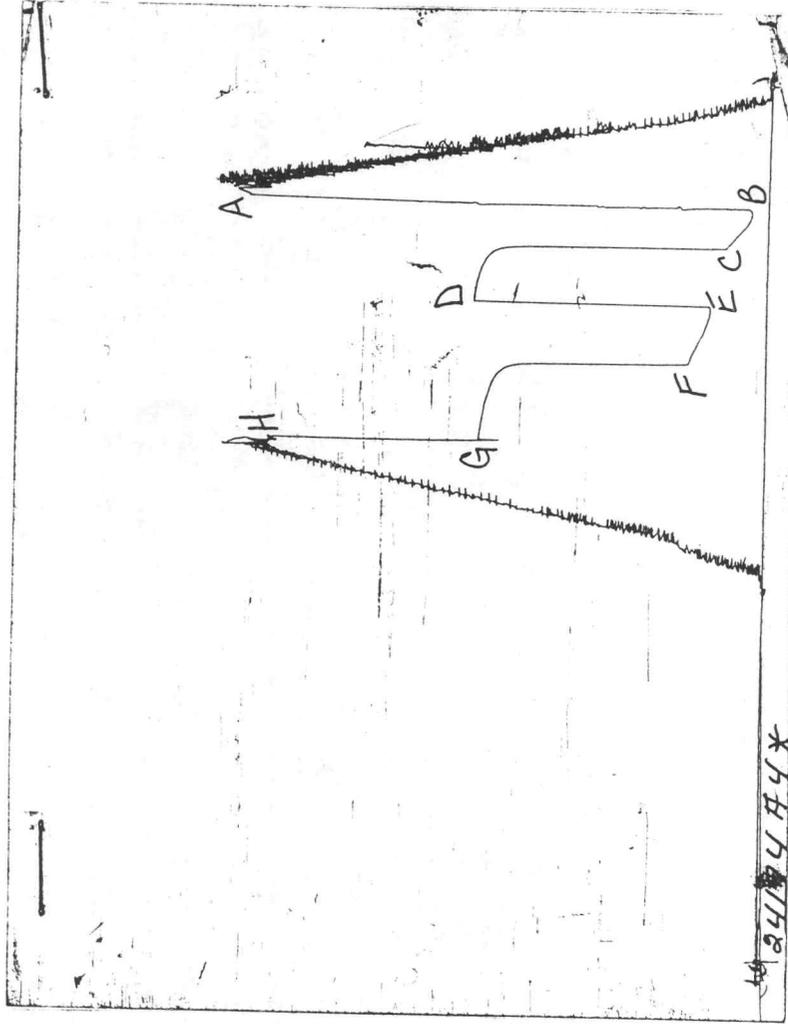
MUD DATA-----

Mud Type CHEMICAL  
 Weight 9.00 lb/c  
 Vis. 47.00 S/L  
 W.L. 8.80 in3  
 F.C. 0.00 in  
 Mud Drop

Amt. of fill 0.00 ft  
 Btm. H. Temp. 110.00 F  
 Hole Condition Good  
 % Porosity 0.00  
 Packer Size 6.75 in  
 No. of Packers 2  
 Cushion Amt. 0.00  
 Cushion Type  
 Reversed Out N  
 Tool Chased N  
 Tester Dan Bangle  
 Co. Rep. Tom Funk  
 Contr. Abercrombie  
 Rig # 8  
 Unit #  
 Pump T.

Test Successful: Y

CHART PAGE



This is an actual photograph of an AK1 recorder chart

\*\*\* TOOL DIAGRAM \*\*\* CONVENTIONAL

WELL NAME: James #1

LOCATION : 24-10S-33W

TICKET No. 7907 D.S.T. No. 4 DATE 05/29/95

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 21

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 28

TOTAL TOOL ..... 49

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY ..... 49

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands68 Single 1 Total 4283

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4332

TOTAL DEPTH ..... 4313

TOTAL DRILL PIPE ABOVE K.B. .... 19

REMARKS:

P.O. SUB	4148
C.O. SUB	4268
S.I. TOOL	4269
HMV	4274
JARS	
SAFETY JOINT	
PACKER	4279
PACKER	4284
DEPTH 4284	
STUBB	4285
ANCHOR 5'perfs	4290
5'perfs	4295
5'perfs	4300
5'perfs	4305
4'perfs	4309
T.C. DEPTH	
BULLNOSE	
T.D. 4'bullplug	4313

TRILOBITE TESTING L.L.C.

OPERATOR : PETEX, INC  
 WELL NAME: James #1  
 LOCATION : 24-10-33  
 INTERVAL : 4566.00 To 4640.00 ft

DATE 05/31/95  
 KB 3128.00 ft  
 GR 3123.00 ft  
 TD 4640.00 ft

TICKET NO: 7908  
 FORMATION: Johnson  
 TEST TYPE: CONVENTIONAL

DST #5

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	24174	24174	22150			PF Fr. 30 to hr
SI 30	Range(Psi )	3350.0	3350.0	3925.0	0.0	0.0	IS Fr. 30 to hr
SF 15	Clock(hrs)	22336	22336	23839			SF Fr. 15 to hr
FS 15	Depth(ft )	4636.0	4636.0	4570.0	0.0	0.0	FS Fr. 15 to hr

	Field	1	2	3	4	
A. Init Hydro	1811.0	1793.0	3014.0	0.0	0.0	T STARTED 0515 hr
B. First Flow	29.0	27.0	76.0	0.0	0.0	T ON BOTM 0625 hr
B1. Final Flow	29.0	27.0	76.0	0.0	0.0	T OPEN 0630 hr
C. In Shut-in	119.0	115.0	239.0	0.0	0.0	T PULLED 0800 hr
D. Init Flow	29.0	30.0	76.0	0.0	0.0	T OUT 1000 hr
E. Final Flow	29.0	30.0	76.0	0.0	0.0	
F. Fl Shut-in	37.0	38.0	95.0	0.0	0.0	
G. Final Hydro	1772.0	1759.0	2974.0	0.0	0.0	
Inside/Outside	I	I	O			

TOOL DATA-----

Tool Wt.	2000.00 lbs
Wt Set On Packer	30000.00 lbs
Wt Pulled Loose	48000.00 lbs
Initial Str Wt	48000.00 lbs
Unseated Str Wt	48000.00 lbs
Bot Choke	0.75 in
Hole Size	7.88 in
D Col. ID	0.00 in
D. Pipe ID	3.25 in
D.C. Length	0.00 ft
D.P. Length	0.00 ft
H.W. I.D	2.70 in
H.W. Length	411.00 ft

RECOVERY

Tot Fluid 10.00 ft of 0.00 ft in DC and 10.00 ft in DP  
 50.00 ft of GAS IN PIPE  
 10.00 ft of OIL CUT MUD - 5% OIL; 95% MUD  
 0.00 ft of  
 0.00 ft of

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type	CHEMICAL
Weight	9.20 lb/c
Vis.	51.00 S/L
W.L.	8.80 in <sup>3</sup>
F.C.	0.00 in
Mud Drop	

BLOW DESCRIPTION

INITIAL BLOW -  
 WEAK, STEADY SURFACE BLOW

FINAL BLOW -

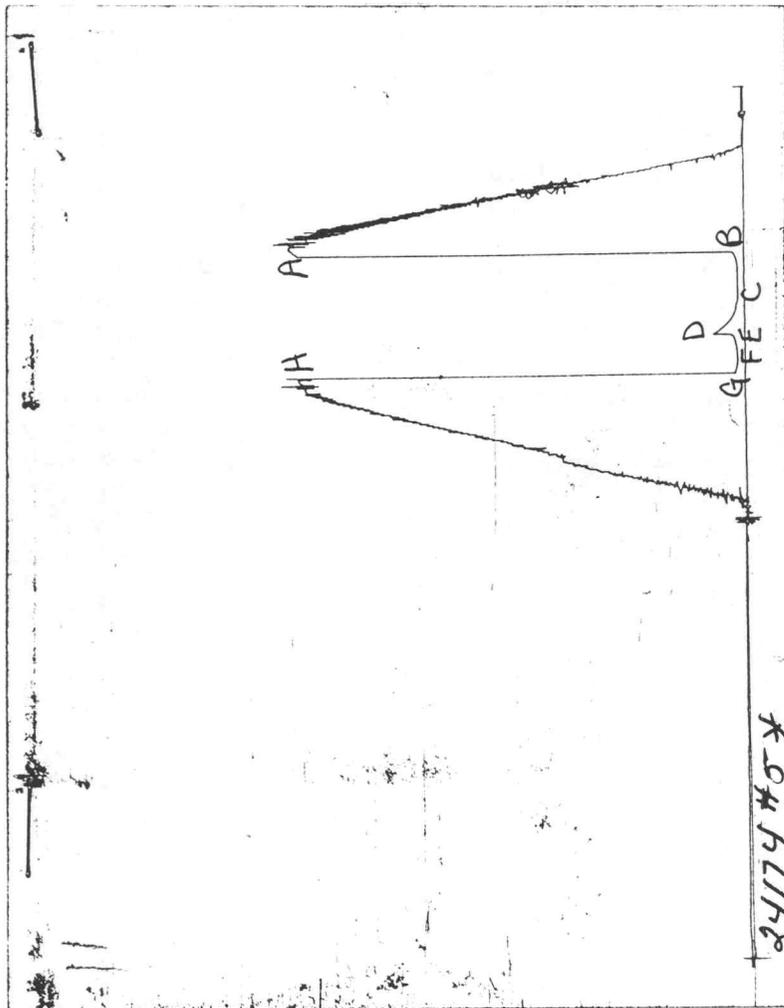
WEAK, STEADY SURFACE BLOW

Amt. of fill	0.00 ft
Btm. H. Temp.	119.00 F
Hole Condition	Good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Dan Bangle
Co. Rep.	Tom Funk
Contr.	Abercrombie
Rig #	8
Unit #	
Pump T.	

SAMPLES:  
 SENT TO:

Test Successful: Y

CHART PAGE



This is an actual photograph of an AK1 recorder chart

# CALCULATED RECOVERY ANALYSIS WEIGHT PIPE

DST # 5

TICKET # 7908

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SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	10		0	5	0.5		0	95	9.5
2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
<b>TOTAL</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>0.5</b>	<b>0</b>	<b>0</b>	<b>95</b>	<b>9.5</b>

HRS OPE BBL/DAY

BBL OIL=	0.0035	*	0.75	0.112
BBL WAT	0	*		0
BBL MUD	0.0665			
BBL GAS	0			

