

TRILOBITE TESTING L.L.C.

OPERATOR : Helmerich & Payne Inc.
WELL NAME: Bedford "B-2"
LOCATION : 9-26S-34W Finney co KS
INTERVAL : 4526.00 To 4590.00 ft

DATE 11-17-99
KB 2968.00 ft TICKET NO: 12219 DST #1
GR 2958.00 ft FORMATION: Pawnee, Ft. Scott, Cher
TD 4590.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	10242	10242	Alpine			PF Fr. 2055 to 2110 hr
SI 60 Range (Psi)	4100.0	4100.0	5000.0	0.0	0.0	IS Fr. 2110 to 2210 hr
SF 60 Clock (hrs)	12 HR	12 HR	Elect			SF Fr. 2210 to 2310 hr
FS 180 Depth (ft)	4587.0	4587.0	4528.0	0.0	0.0	FS Fr. 2310 to 0210 hr

	Field	1	2	3	4	
A. Init Hydro	2163.0	2183.0	2104.0	0.0	0.0	T STARTED 1815 hr
B. First Flow	221.0	245.0	161.0	0.0	0.0	T ON BOTM 2053 hr
B1. Final Flow	242.0	269.0	214.0	0.0	0.0	T OPEN 2055 hr
C. In Shut-in	1282.0	1301.0	1279.0	0.0	0.0	T PULLED 0210 hr
D. Init Flow	280.0	330.0	282.0	0.0	0.0	T OUT 0700 hr
E. Final Flow	320.0	343.0	312.0	0.0	0.0	
F. Fl Shut-in	1273.0	1293.0	1272.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2163.0	2183.0	2088.0	0.0	0.0	Tool Wt. 2300.00 lbs
Inside/Outside	I	I	I			Wt Set On Packer 23000.00 lbs
						Wt Pulled Loose 12000.00 lbs
						Initial Str Wt 83000.00 lbs
						Unseated Str Wt 83000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.78 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 591.00 ft
						D.P. Length 3913.00 ft

RECOVERY

Tot Fluid 930.00 ft of 591.00 ft in DC and 339.00 ft in DP
3574.00 ft of Gas in pipe
90.00 ft of Oil & Gas cut Mud 9% Gas 8% Oil 83% Mud
430.00 ft of Slight Mud cut Gassy Oil
0.00 ft of 40% gas 50% oil 10% mud
410.00 ft of Clean gassy oil 44% gas 56% oil
0.00 ft of
0.00 ft of
0.00 ft of

SALINITY 0.00 P.P.M. A.P.I. Gravity 36.00

BLOW DESCRIPTION

Initial Flow:
Weak 1", built to strong off bottom
of bucket in 10 mins.
Initial Shut-in:
Strong off bottom of bucket blow-back
Final Flow:
Weak 1", built to strong off bottom
of bucket in 9 mins.
Final Shut-in:
Strong off bottom of bucket blow back
Gas to surface
Remarks: Est. 15 ft. of pay.

SAMPLES: None
SENT TO:

MUD DATA-----
Mud Type Chemical
Weight 9.00 lb/cf
Vis. 52.00 S/L
W.L. 9.60 in3
F.C. 0.00 in
Mud Drop Y 30.0 ft
Amt. of fill 0.00 ft
Btm. H. Temp. 118.00 F
Hole Condition Good
% Porosity 10.00
Packer Size 6.75 in
No. of Packers 2
Cushion Amt. 0.00
Cushion Type
Reversed Out N
Tool Chased N
Tester Lanny Saloga
Co. Rep. Brad Rine
Contr. Cheyenne
Rig # 2
Unit #
Pump T.

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Bedford "B-2"

LOCATION : 9-26S-34W Finney co KS

TICKET No. 12219 D.S.T. No. 1 DATE 11-17-99

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 33

TOTAL TOOL 63

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single 1 Total 31

TOTAL ASSEMBLY 94

D.C. ABOVE TOOLS.Stands 10 Single Total 591

D.P. ABOVE TOOLS.Stands 63 Single Total 3913

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4598

TOTAL DEPTH 4590

TOTAL DRILL PIPE ABOVE K.B. 8

REMARKS:

FLUID SAMPLER DATA

Total Vol. 5000 ML.
Total Vol. Rec. 2500 ML.
Oil 2500 ML.
Mud 0 ML.
Wtr. 0 ML.
Gas 10.3 CF.
Psi. 760
Bht. 118 F.
Pit RW. 5.6 Ohms at 67 F. 1,000 PPM.
Rec RW. --- Ohms at -- F. ----- PPM.
Gravity 36 at 60 F.

P.O. SUB Cir. sub	4436
C.O. SUB Top of tool	4496
Double pin	4497
S.I. TOOL H&T	4502
Sampler	4505
HMV Sterling	4510
JARS Bowen	4515
SAFETY JOINT Bowen	4517
PACKER Sparton	4522
PACKER Sparton	4526
DEPTH	
STUBB 1 ft.	4527
ANCHOR Rec. sub	4528
Alpine	4528
Pu. sub	4533
24 ft. perfs	4557
T.C.	
DEPTH	
AK-1	4587
1 jt. DP	4588
BULLNOSE 2 ft. perf	
T.D.	4590

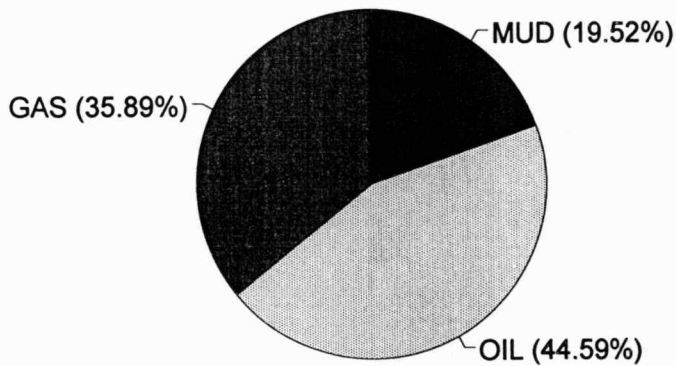
CALCULATED RECOVERY ANALYSIS

DST 1

TICKET 12219

SAMPLE		TOTAL	GAS		OIL		WATER		MUD	
#		FEET	%	FEET	%	FEET	%	FEET	%	FEET
DRILL	1	90	9	8.1	8	7.2	0	0	83	74.7
PIPE	2	249	40	99.6	50	124.5	0	0	10	24.9
	3	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0
	6	0	0	0	0	0	0	0	0	0
WEIGHT	1	0	0	0	0	0	0	0	0	0
PIPE	2	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0
DRILL	1	181	40	72.4	50	90.5	0	0	10	18.1
COLLARS	2	410	44	180.4	56	229.6	0	0	0	0
	3	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0
TOTAL		930	0	360.5	0	451.8	0	0	0	117.7

BBL OIL= 3.438063 * HRS OPEN 1.25 = BBL/DAY 66.01081
 BBL WATER= 0 * = 0
 BBL MUD= 1.504821
 BBL GAS = 2.767686

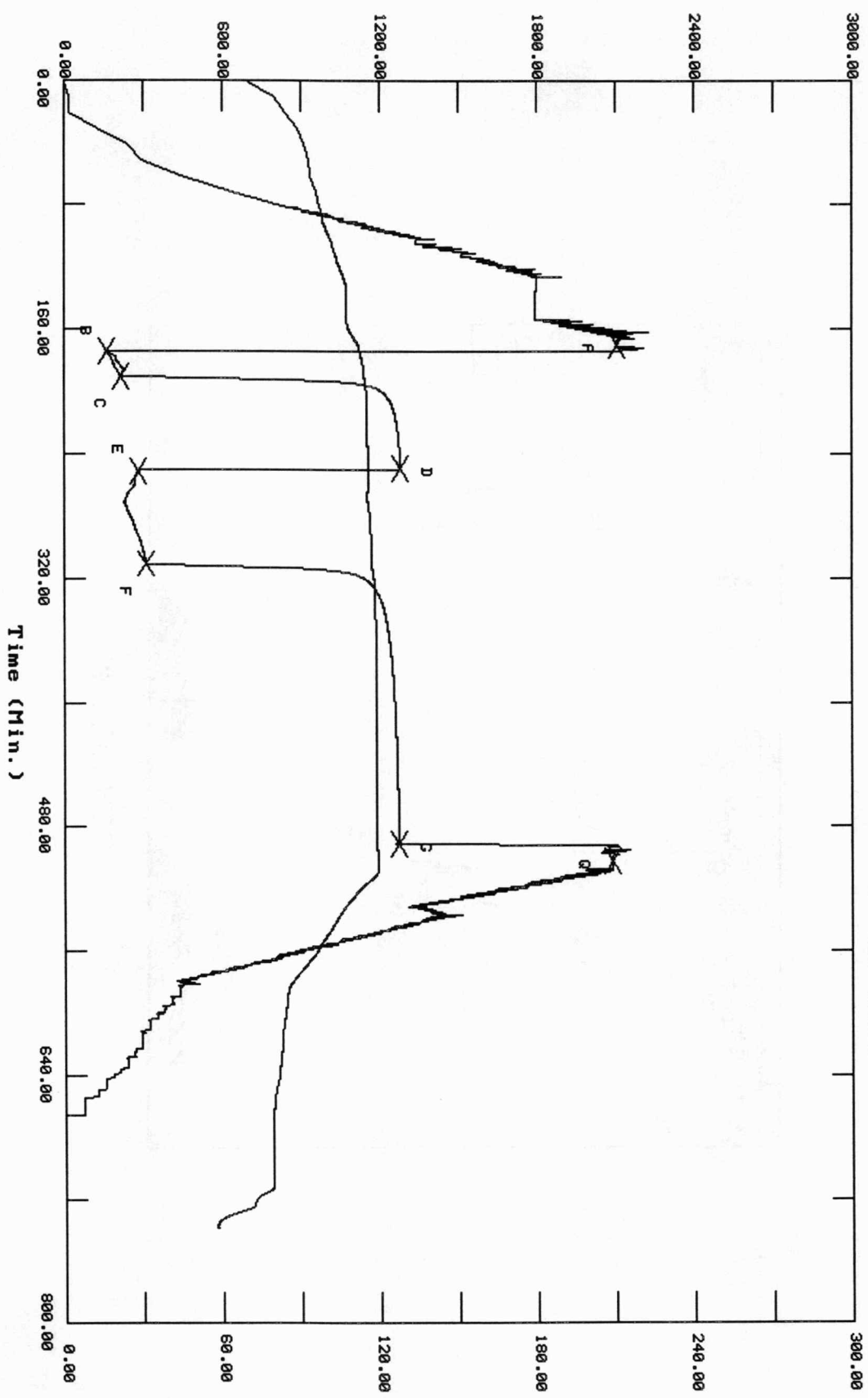


TEST HISTORY

12219 D.S.T.#1 Bedford "B-2" Helmerich & Payne Inc.

Flag Points

t (Min.)	P (PSig)
A: 0.00	2104.89
B: 0.00	161.02
C: 15.67	214.76
D: 59.33	1279.62
E: 0.00	282.83
F: 59.33	312.83
G: 180.33	1272.51
H: 0.00	2088.32

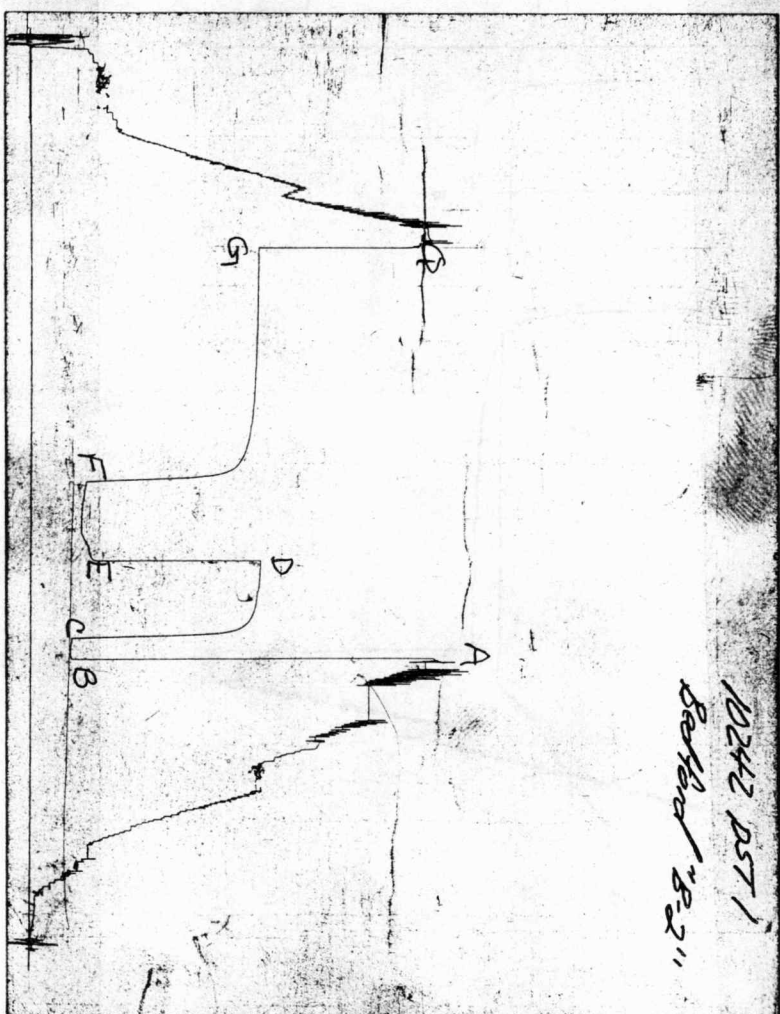


Pressure (PSig)

Temperature (DEG F)

Time (Min.)

CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 12219 Date 11-17-99
Company Name H & P Inc.
Lease Bedford "B-2" Test No. 1
County Fancy Ks. Sec. 9 Twp. 26 S. Rng. 34 W.

SAMPLER RECOVERY

Gas 10.3 C.F. ~~ML~~
Oil 2500 ML
Mud 0 ML
Water 0 ML
Other 0 ML
Pressure 760 PSI
Total Vol. Rec. = 2500 ML
Total Vol. of chamber = 5000 ml

SAMPLER ANALYSIS

Resistivity — ohms @ — F
Chlorides — ppm.
Gravity 36 corrected @ 60 F

PIT MUD ANALYSIS

Chlorides 1.000 ppm.
Resistivity 5.6 ohms @ 67 F
Viscosity 52
Mud Weight 9.0
Filtrate 9.6
Other Trace of L.C.M.

PIPE RECOVERY

TOP
Resistivity — ohms @ — F
Chlorides — ppm.

MIDDLE
Resistivity — ohms @ — F
Chlorides — ppm.

BOTTOM
Resistivity — ohms @ — F
Chlorides — ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

N^o 12219

Test Ticket

Well Name & No. <u>Bedford "B-2"</u>	Test No. <u>1</u>	Date <u>11-17-99</u>
Company <u>Helmerich & Payne Inc.</u>	Zone Tested <u>Paumotu, Ft. Scott, Cherokee</u>	
Address <u>Tulsa Ok.</u>	Elevation <u>2968</u> KB <u>2858</u> GL	
Co. Rep / Geo. <u>Brad Pine</u>	Cont. <u>Cheyenne Rig 2</u>	Est. Ft. of Pay <u>15</u> Por. <u>10</u> %
Location: Sec. <u>9</u>	Twp. <u>26 S</u>	Rge. <u>34 W</u> Co. <u>Finney</u> State <u>Ks.</u>
No. of Copies _____	Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>4526 - 4590</u>	Initial Str Wt/Lbs <u>83,000</u>	Unseated Str Wt/Lbs. <u>83,000</u>
Anchor Length <u>64'</u> Tool = <u>30'</u>	Wt. Set Lbs. <u>23,000</u>	Wt. Pulled Loose/Lbs. <u>12,000</u>
Top Packer Depth <u>4521</u>	Tool Weight <u>2,300</u>	
Bottom Packer Depth <u>4526</u>	Hole Size — <u>7 7/8"</u>	Rubber Size — <u>6 3/4"</u>
Total Depth <u>4590</u>	Wt. Pipe Run _____	Drill Collar Run <u>591</u>
Mud Wt. <u>9.0</u> LCM <u>True</u> Vis. <u>52</u> WL <u>9.6</u>	Drill Pipe Size <u>4 1/2 FH</u>	Ft. Run <u>3913</u> <u>8' up</u>

Blow Description Weak 1", built to strong OBB in 10 min. I.F.P.
Strong OBB blow-back. I.S.I.P.
Weak 1", built to strong OBB in 9 min. F.F.P.
Strong OBB blow-back. G.T.S. F.S.I.P.

Recovery — Total Feet <u>930</u>	GIP <u>3574</u>	Ft. in DC <u>591</u>	Ft. in DP <u>339</u>
Rec. <u>90</u>	Feet Of <u>Oil & Gas cut mud</u>	<u>9</u> %gas <u>8</u> %oil	%water <u>83</u> %mud
Rec. <u>430</u>	Feet Of <u>Sl. mud cut Gassy Oil</u>	<u>40</u> %gas <u>50</u> %oil	%water <u>10</u> %mud
Rec. <u>410</u>	Feet Of <u>Cln Gassy Oil</u>	<u>44</u> %gas <u>56</u> %oil	%water _____ %mud _____
Rec. _____	Feet Of _____	%gas _____ %oil _____	%water _____ %mud _____
Rec. _____	Feet Of _____	%gas _____ %oil _____	%water _____ %mud _____
BHT <u>118</u>	°F Gravity <u>35</u>	°API D@ <u>50</u>	°F Corrected Gravity <u>36</u> °API _____
RW _____ @ _____	°F Chlorides _____	ppm Recovery _____	Chlorides <u>1,000</u> ppm System _____

	AK-1	Alpine			
(A) Initial Hydrostatic Mud	<u>2163</u>	<u>2104</u>	PSI Recorder No. <u>3017 "18:00"</u>	T-On Location <u>4:15 P.M.</u>	
(B) First Initial Flow Pressure	<u>221</u>	<u>161</u>	PSI (depth) <u>4528</u>	T-Started <u>6:15 P.M.</u>	
(C) First Final Flow Pressure	<u>242</u>	<u>214</u>	PSI Recorder No. <u>10242</u>	T-Open <u>8:55 P.M.</u>	
(D) Initial Shut-In Pressure	<u>1282</u>	<u>1279</u>	PSI (depth) <u>4587</u>	T-Pulled <u>2:10 A.M.</u>	
(E) Second Initial Flow Pressure	<u>280</u>	<u>282</u>	PSI Recorder No. _____	T-Out <u>7:00 A.M.</u>	
(F) Second Final Flow Pressure	<u>320</u>	<u>312</u>	PSI (depth) _____	T-Off Location _____	
(G) Final Shut-in Pressure	<u>1273</u>	<u>1272</u>	PSI Initial Opening <u>15</u>	Test <u>700</u> ✓	
(Q) Final Hydrostatic Mud	<u>2163</u>	<u>2088</u>	PSI Initial Shut-in <u>60</u>	Jars <u>200</u> ✓	
			Final Flow <u>60</u>	Safety Joint <u>150</u> ✓	
			Final Shut-in <u>180</u>	Straddle _____	

81791800.017
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.

Approved By Brad Pine

Our Representative Erving L. Salazar

Circ. Sub 1
Sampler 200 ✓
Extra Packer _____
Elec. Rec. 150 ✓
Mileage _____
Other _____
TOTAL PRICE \$ 1,300.00

Well Name Bedford
DST Number 1
Recorder Number 10242

A: 2065 2183

B: 210 245

C: 231 269

D: 1,204 1301

E: ~~324~~ 283 330

F: 298 343

G: 1,197 1293

Q: 2,065 2183

TRILOBITE TESTING L.L.C.

OPERATOR : Helmerich & Payne Inc.

DATE 11-19-99

WELL NAME: Bedford "B" #2

KB 2968.00 ft

TICKET NO: 11997

DST #2

LOCATION : 9-26S-34W Finney co KS

GR 2958.00 ft

FORMATION: St Louis

INTERVAL : 5002.00 To 5060.00 ft

TD 5060.00 ft

TEST TYPE: CONVENTONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	13309	13309	3024			PF Fr. 2005 to 2020 hr
SI 60 Range(Psi)	4700.0	4700.0	4995.0	0.0	0.0	IS Fr. 2020 to 2120 hr
SF 60 Clock(hrs)	12 Hr	12	ALP			SF Fr. 2120 to 2220 hr
FS 180 Depth(ft)	5025.0	5025.0	5005.0	0.0	0.0	FS Fr. 2220 to 0120 hr

	Field	1	2	3	4	
A. Init Hydro	2429.0	2454.0	2429.0	0.0	0.0	T STARTED 1730 hr
B. First Flow	23.0	36.0	52.0	0.0	0.0	T ON BOTM 2003 hr
B1. Final Flow	70.0	88.0	127.0	0.0	0.0	T OPEN 2005 hr
C. In Shut-in	1161.0	1157.0	1190.0	0.0	0.0	T PULLED 0120 hr
D. Init Flow	106.0	119.0	159.0	0.0	0.0	T OUT 0900 hr
E. Final Flow	200.0	215.0	262.0	0.0	0.0	
F. Fl Shut-in	1126.0	1136.0	1170.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2359.0	2353.0	2393.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 120000.00 lbs
						Initial Str Wt 80000.00 lbs
						Unseated Str Wt 84000.00 lbs
						Bot Choke 0.75 in
						Hole Size 8.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 590.00 ft
						D.P. Length 4411.00 ft

RECOVERY

Tot Fluid 838.00 ft of 590.00 ft in DC and 248.00 ft in DP
 2790.00 ft of Gas in pie
 538.00 ft of Clean gassy oil 40%gas 60%oil
 300.00 ft of Heavy gassy mud cut oil 30%gas 50%oil 20%mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of

SALINITY 0.00 P.P.M. A.P.I. Gravity 36.00

BLOW DESCRIPTION

Initial Flow:

Fair to strong blow off bottom in
 5 mins.

Initial Shut-in:

Surface return built to bottom in
 10 mins.

Final Flow:

Fair to strong blow off bottom in

Final Shut-in:

Surface return built to bottom in
 10 mins.

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb/cf
Vis.	52.00 S/L
W.L.	8.40 in3
F.C.	0.00 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	127.00 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 Rod Steinbrink
 Co. Rep. Brad Rine
 Contr. Cheyenne
 Rig # 2
 Unit #
 Pump T.

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTONAL

WELL NAME: Bedford "B" #2

LOCATION : 9-26S-34W Finney co KS

TICKET No. 11997 D.S.T. No. 2 DATE 11-19-99

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL 27

BOTTOM PACKERS AND ANCHOR

TOTAL TOOL 57

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single 1 Total 31

TOTAL ASSEMBLY 88

D.C. ABOVE TOOLS.Stands10 Single Total 590

D.P. ABOVE TOOLS.Stands71 Single Total 4411

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5089

TOTAL DEPTH 5060

TOTAL DRILL PIPE ABOVE K.B. 29

REMARKS:

Sampler Data;

Gas; 1500 ml

Oil; 2000 ml

Wtr;

Mud; 500 ml

Total Volume; 4000 ml

Pressure; 1050# psi

P.O. SUB 1' Above 120' DC 4852

C.O. SUB 1' 4972

S.I. TOOL 5' 4978

3' Sampler 4981

HMV 5' 4986

JARS 5' 4991

SAFETY JOINT 2' 4993

PACKER 4' 4997

PACKER 5' 5002

DEPTH

STUBB 1' 5003

ANCHOR

ALP Rec. @ 5005

21' Perf 5024

AK-1 Rec. @ 5025

31' 4 1/2" FH DP 5055

T.C.

DEPTH

BULLNOSE 5'

T.D. 5060

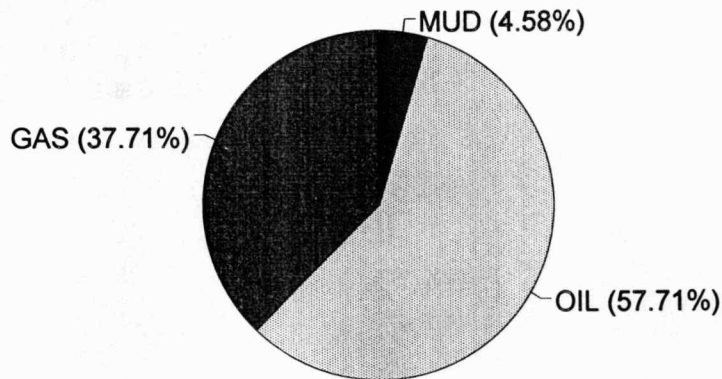
CALCULATED RECOVERY ANALYSIS

DST 2

TICKET 11997

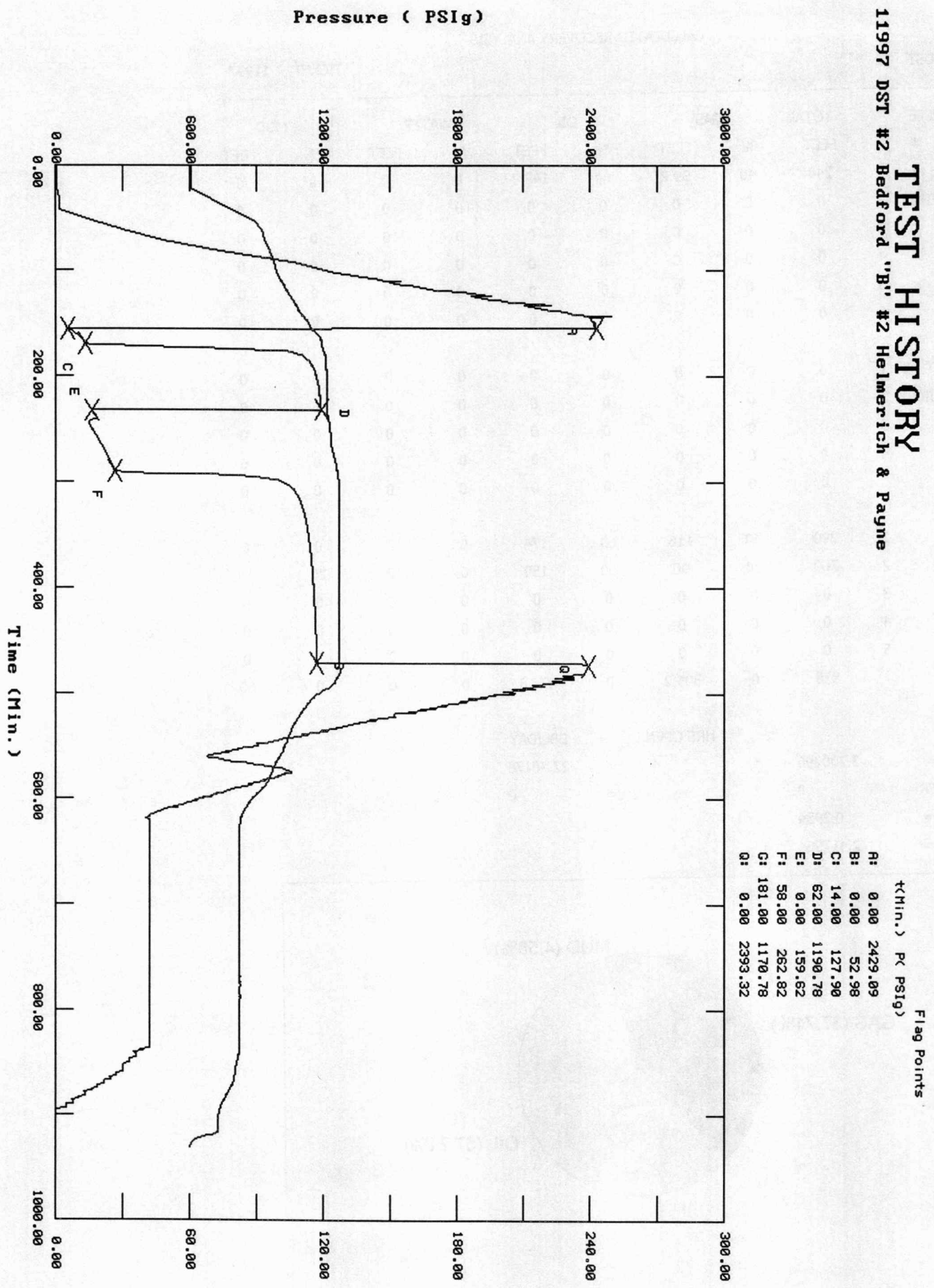
SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
DRILL 1	248	40	99.2	60	148.8	0	0	0	0
PIPE 2	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0
WEIGHT 1	0	0	0	0	0	0	0	0	0
PIPE 2	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0
DRILL 1	290	40	116	60	174	0	0	0	0
COLLARS 2	300	30	90	50	150	0	0	20	60
3	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0
TOTAL	838	0	305.2	0	472.8	0	0	0	60

			HRS OPEN		BBL/DAY
BBL OIL=	3.700296	*	4	=	22.20178
BBL WATER=	0	*		=	0
BBL MUD=	0.2934				
BBL GAS =	2.417964				



TEST HISTORY

11997 DST #2 Bedford "B" #2 Helmerich & Payne



DST #2
13309

DST #2
13309

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 11997 Date 11-19-99
Company Name Helmrich & Payne Cont. Cheyenne #2
Lease Bedford 'B' #2 Test No. #2 St. Louis
County Finney KS Sec. 9 Twp. 26^S Rng. 34^W

SAMPLER RECOVERY

Gas 1,500 ML
Oil 2,000 ML
Mud 500 ML
Water _____ ML
Other _____ ML
Pressure 1050 # PSI
Total 4,000 ML

PIT MUD ANALYSIS

Chlorides 700 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 52
Mud Weight 9.0
Filtrate 8.4
Other _____

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
Gravity 36 corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
BOTTOM
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 11997

Test Ticket

Well Name & No.	Bedford 'B' #2	Test No.	2	Date	11-19-99
Company	Helmrich & Payne Inc	Zone Tested	St. Louis		
Address	1579 E. 21 st	Tulsa, OK	74114	Elevation	2968 KB 2956 GL
Co. Rep / Geo.	Brad Rine	Cont.	Cheyenne #2	Est. Ft. of Pay	Por. %
Location: Sec.	9	Twp.	26 ^s	Rge.	34 ^w
		Co.	Finney	State	KS
No. of Copies		Distribution Sheet (Y, N)		Turnkey (Y, N)	N
		Evaluation (Y, N)			

Interval Tested	5002 - 5060	Initial Str Wt./Lbs.	80,000	Unseated Str Wt./Lbs.	84,000
Anchor Length	58'	Wt. Set Lbs.	30,000	Wt. Pulled Loose/Lbs.	120,000
Top Packer Depth	4997	Tool Weight	1,800		
Bottom Packer Depth	5002	Hole Size — 7 7/8"		Rubber Size — 6 3/4"	
Total Depth	5060	Wt. Pipe Run		Drill Collar Run	590' (10)
Mud Wt.	9.0 LCM	Vis.	52 WL 8.4	Drill Pipe Size	4 1/2' FH
				Ft. Run	4411' (71)
Blow Description	IF: Fair to strong blow off bttm in 5 mins.				
	IS1: Surface return built to bttm in 10 mins.				
	FF: Fair to strong blow off bttm in 7 mins.				
	FS1: Surface return built to bttm in 15 mins.				

Recovery — Total Feet	838'	GIP	2790'	Ft. in DC	590'	Ft. in DP	248'
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.	538'	Feet Of	CGO	40	%gas 60	%oil	%water %mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.	300'	Feet Of	HGMCO	30	%gas 50	%oil	%water 20 %mud
Rec.		Feet Of		%gas	%oil	%water	%mud
BHT	127°	°F Gravity	38	°API D@	40°	°F Corrected Gravity	36
		°API					
RW		@		°F Chlorides		ppm Recovery	Chlorides 700 ppm System

	AK-1	Alpine				
(A) Initial Hydrostatic Mud	2429	2429	PSI Recorder No.	3024	T-On Location	1645
(B) First Initial Flow Pressure	23	52	PSI (depth)	5005	T-Started	1730
(C) First Final Flow Pressure	70	127	PSI Recorder No.	13309	T-Open	2005
(D) Initial Shut-In Pressure	1161	1190	PSI (depth)	5025	T-Pulled	0120
(E) Second Initial Flow Pressure	106	159	PSI Recorder No.	—	T-Out	0900
(F) Second Final Flow Pressure	200	262	PSI (depth)	—	T-Off Location	1030
(G) Final Shut-in Pressure	1126	1170	PSI Initial Opening	15	Test	800
(Q) Final Hydrostatic Mud	2359	2393	PSI Initial Shut-in	60	Jars	X 200
			Final Flow	60	Safety Joint	X 50
			Final Shut-in	180	Straddle	

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.

Approved By Brad Rine

Our Representative Rod Steinbrink

Circ. Sub X N/C

Sampler X 200

Extra Packer

Elec. Rec. X 150

Mileage

Other

TOTAL PRICE \$ 1400

Well Name Bedford B#2
DST Number 2
Recorder Number 13309

A: 2.081 2454

B: .031 36

C: .075 88

D: .977 1157

E: .101 119

F: .183 215

G: .958 1136

Q: 1.995 2353