

Computer Inventories

RECEIVED
KANSAS CORPORATION COMMISSION

ORIGINAL

Well Name: Packbush 1-20
Company: Phillips Exploration Co. LC
Location: 20-23s-7w
Reno country Kansas
Date: 9-7-99

APR 04 2000

CONSERVATION DIVISION
WICHITA, KS

TRILOBITE TESTING L.L.C.

OPERATOR : Phillips Explor. Co. LC DATE 9-5-99
 WELL NAME: Packbush 1-20 KB 1607.00 ft TICKET NO: 11887 DST #1
 LOCATION : 20-23s-7w Reno co KS GR 1598.00 ft FORMATION: Herths
 INTERVAL : 3412.00 To 3454.00 ft TD 3154.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	13308	13308	11084			PF Fr. 1314 to 1344 hr
SI 30	Range(Psi)	4700.0	4700.0	4300.0	0.0	0.0	IS Fr. 1344 to 1414 hr
SF 0	Clock(hrs)	12	12	12			SF Fr. to hr
FS 0	Depth(ft)	3450.0	3450.0	3419.0	0.0	0.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	1820.0	1822.0	0.0	0.0	0.0	T STARTED 1302 hr
B. First Flow	37.0	42.0	0.0	0.0	0.0	T ON BOTM 1310 hr
Bl. Final Flow	37.0	42.0	0.0	0.0	0.0	T OPEN 1314 hr
C. In Shut-in	478.0	493.0	0.0	0.0	0.0	T PULLED 1414 hr
D. Init Flow	0.0	0.0	0.0	0.0	0.0	T OUT 1540 hr
E. Final Flow	0.0	0.0	0.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1725.0	1736.0	0.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	o	o	i			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 115000.00 lbs
						Initial Str Wt 70000.00 lbs
						Unseated Str Wt 70000.00 lbs

RECOVERY

Tot Fluid	15.00 ft of	15.00 ft in DC and	0.00 ft in DP			Bot Choke 0.75 in
15.00	ft of Mud					Hole Size 7.88 in
0.00	ft of					D Col. ID 2.25 in
0.00	ft of					D. Pipe ID 3.80 in
0.00	ft of					D.C. Length 497.00 ft
0.00	ft of					D.P. Length 2917.00 ft
0.00	ft of					
0.00	ft of					

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

BLOW DESCRIPTION

Initial Flow:
 Weak 1/2" blow decreasing to 1/4"
 Final Flow:
 None taken

MUD DATA-----

Mud Type	Chemical
Weight	9.40 lb/cf
Vis.	45.00 S/L
W.L.	10.40 in3
F.C.	0.00 in

Mud Drop

Amt. of fill	0.00 ft
Btm. H. Temp.	110.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00

Cushion Type

Reversed Out

Tool Chased

Tester	Paul Simpson
Co. Rep.	Jim Phillips
Contr.	Sterling
Rig #	4
Unit #	
Pump T.	

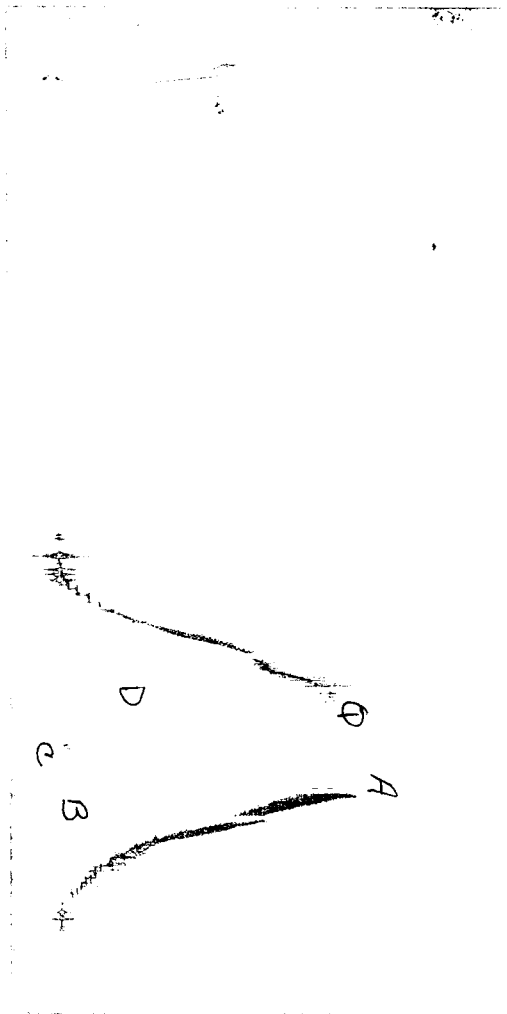
SAMPLES:

SENT TO:

Test Successful: Y

CHART PAGE

47
13308



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 11887

Well Name & No. <u>Pakebush 1-20</u>	Test No. <u>1</u>	Date <u>9-5-99</u>
Company <u>Phillips Exploration Co. LLC</u>	Zone Tested <u>Herds</u>	
Address <u>2338 Bromfield Circle Wichita KS 67226</u>	Elevation <u>1607</u>	KB <u>1598</u> GL
Co. Rep / Geo. <u>Jim Phillips</u>	Cont. <u>Sterling A-1</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>20</u>	Twp. <u>23s</u>	Rge. <u>7w</u> Co. <u>Raw</u> State <u>Ks</u>
No. of Copies _____	Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>3412-3454</u>	Initial Str Wt./Lbs. <u>20,000</u>	Unseated Str Wt./Lbs. <u>20,000</u>
Anchor Length <u>42</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>115,000</u>
Top Packer Depth <u>3407</u>	Tool Weight <u>1800</u>	
Bottom Packer Depth <u>3412</u>	Hole Size — <u>7 7/8"</u>	Rubber Size — <u>6 3/4"</u>
Total Depth <u>3454</u>	Wt. Pipe Run _____	Drill Collar Run <u>497</u>
Mud Wt. <u>9.4</u> LCM <u>45</u> Vis. <u>45</u> WL <u>10.4</u>	Drill Pipe Size <u>4 1/2 x 11</u>	Ft. Run <u>2917</u>
Blow Description <u>weak 1/2" blow decreasing to 1/4"</u>		

SS - none taken

Recovery — Total Feet <u>15</u>	GIP _____	Ft. in DC _____	Ft. in DP _____
Rec. <u>15</u> Feet Of <u>Mud</u>	%gas _____	%oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____
BHT <u>110</u> °F Gravity _____	°API D@ _____	°F Corrected Gravity _____	°API _____
RW _____ @ _____	°F Chlorides _____	ppm Recovery _____	Chlorides _____ ppm System _____

(A) Initial Hydrostatic Mud <u>1820</u>	AK-1	Alpine	PSI Recorder No. <u>11054</u>	T-On Location <u>1130</u>
(B) First Initial Flow Pressure <u>37</u>			PSI (depth) <u>3419</u>	T-Started <u>1202</u>
(C) First Final Flow Pressure <u>37</u>			PSI Recorder No. <u>13308</u>	T-Open <u>1314</u>
(D) Initial Shut-in Pressure <u>478</u>			PSI (depth) <u>3450</u>	T-Pulled <u>1414</u>
(E) Second Initial Flow Pressure _____			PSI Recorder No. _____	T-Out <u>1540</u>
(F) Second Final Flow Pressure _____			PSI (depth) _____	T-Off Location <u>1610</u>
(G) Final Shut-in Pressure _____			PSI Initial Opening <u>30</u>	Test _____
(Q) Final Hydrostatic Mud <u>1725</u>			PSI Initial Shut-in <u>30</u>	Jars _____
			Final Flow _____	Safety Joint <u>X</u>
			Final Shut-in _____	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 [Signature]

Our Representative [Signature]

Circ. Sub _____
Sampler _____
Extra Packer _____
Elec. Rec. _____
Mileage _____
Other _____
TOTAL PRICE \$ _____

TRILOBITE TESTING L.L.C.

OPERATOR : Phillips Exploration DATE 09/06/199
 WELL NAME: Packbush 1-20 KB 1607.00 ft TICKET NO: 11888 DST #2
 LOCATION : 20-23s-7w Reno KS GR 1589.00 ft FORMATION: Mississippian
 INTERVAL : 3562.00 To 3642.00 ft TD 3642.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13308	13308	2357			PF Fr. 1102 to 1132 hr
SI 45 Range(Psi)	4700.0	4700.0	4995.0	0.0	0.0	IS Fr. 1132 to 1217 hr
SF 45 Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 1217 to 1302 hr
FS 45 Depth(ft)	3629.0	3629.0	3566.0	0.0	0.0	FS Fr. 1302 to 1347 hr

	Field	1	2	3	4	
A. Init Hydro	1926.0	1927.0	1773.0	0.0	0.0	T STARTED 0953 hr
B. First Flow	85.0	97.0	37.0	0.0	0.0	T ON BOTM 1100 hr
B1. Final Flow	157.0	160.0	123.0	0.0	0.0	T OPEN 1102 hr
C. In Shut-in	748.0	753.0	732.0	0.0	0.0	T PULLED 1347 hr
D. Init Flow	181.0	198.0	147.0	0.0	0.0	T OUT 1521 hr
E. Final Flow	241.0	258.0	206.0	0.0	0.0	
F. Fl Shut-in	725.0	741.0	706.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1891.0	1912.0	1769.0	0.0	0.0	Tool Wt. 2500.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 85000.00 lbs
						Initial Str Wt 72000.00 lbs
						Unseated Str Wt 75000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 497.10 ft
						D.P. Length 3060.00 ft

RECOVERY

Tot Fluid 380.00 ft of 380.00 ft in DC and 0.00 ft in DP
 200.00 ft of mud
 0.00 ft of
 120.00 ft of Gassy slightly oil & water cut mud
 0.00 ft of 5% gas 5% oil 10% water 70% mud
 60.00 ft of Slightly oil & water cut mud
 0.00 ft of 10% oil 10% water 70% mud
 0.00 ft of
 0.00 ft of Rw .24 @ 90
 SALINITY 24000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 2" blow building to bottom of bucket
 in 3 minutes
 Initial Shut-in:
 Surface blow building to 4"
 Final Flow:
 3" blow building to bottom of bucket
 in 3 minutes
 Final Shut-in:

SAMPLES:

SENT TO:

MUD DATA-----
 Mud Type Chemical
 Weight 9.20 lb/cf
 Vis. 46.00 S/L
 W.L. 9.60 in3
 F.C. 0.00 in
 Mud Drop N
 Amt. of fill 0.00 ft
 Btm. H. Temp. 113.00 F
 Hole Condition good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00 n
 Cushion Type none
 Reversed Out N
 Tool Chased N
 Tester Paul Simpson
 Co. Rep. Jim Phillips
 Contr. Sterling
 Rig # 4
 Unit # no
 Pump T. none

Test Successful: Y

97299

GAS RECOVERY

COMPANY: Phillips Exploration DATE: 09/06/199
WELL NAME: Packbush 1-20 KB Elev: 1607.00 ft TICKET #11888 DST #2
WELL LOCATION: 20-23s-7w Reno KS GR Elev: 1589.00 ft FORMATION: Mississippian
INTERVAL Fr.: 3562.00 To 3642.00 T.D.: 3642.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Adj.Choke

**** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
26	0.38	0	38	21900.0
30	0.38	0	42	23100.0

**** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.38	14	0	79700.0
20	0.38	11	0	69400.0
30	0.38	8	0	57300.0
40	0.38	5	0	46400.0
50	0.38	3	0	33500.0
60	0.38	2	0	31400.0

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Packbush 1-20

LOCATION : 20-23s-7w Reno KS

TICKET No. 11888 D.S.T. No. 2 DATE 09/06/199

TOTAL TOOL TO BOTTOM OF TOP PACKERS 23

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 18

TOTAL TOOL 41

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 1 Single Total 62

TOTAL ASSEMBLY 103

D.C. ABOVE TOOLS.Stands8 Single Total 497

D.P. ABOVE TOOLS.Stands49 * Single 1 Total 3060

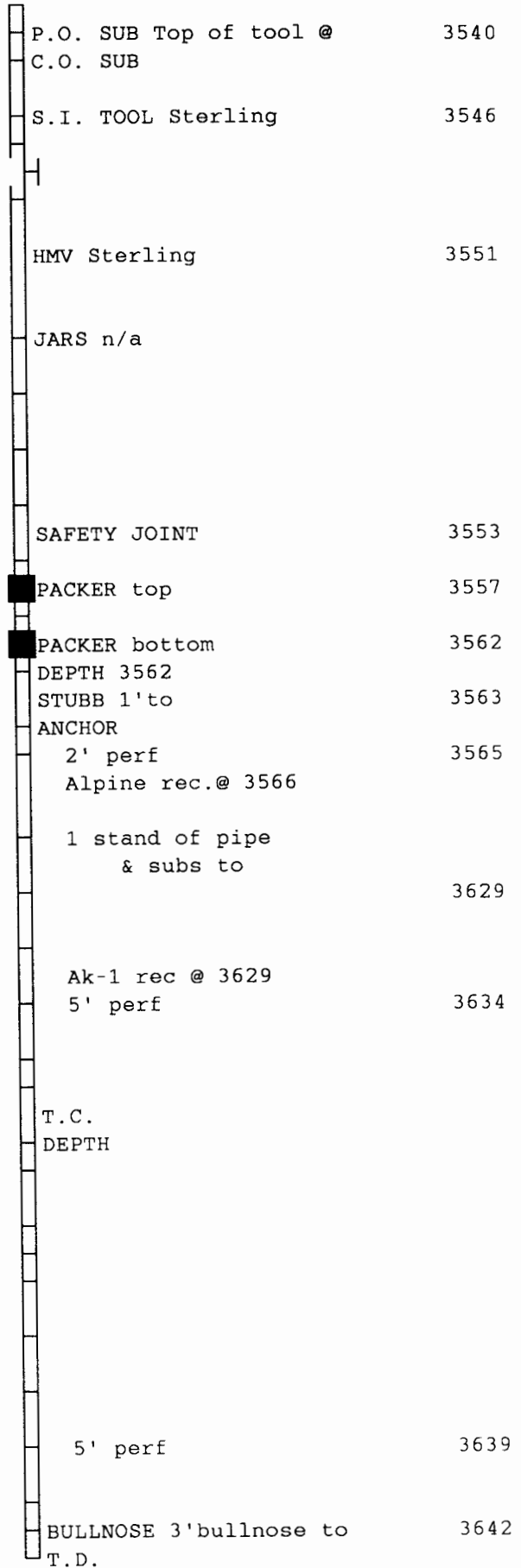
TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3660

TOTAL DEPTH 3642

TOTAL DRILL PIPE ABOVE K.B. 18

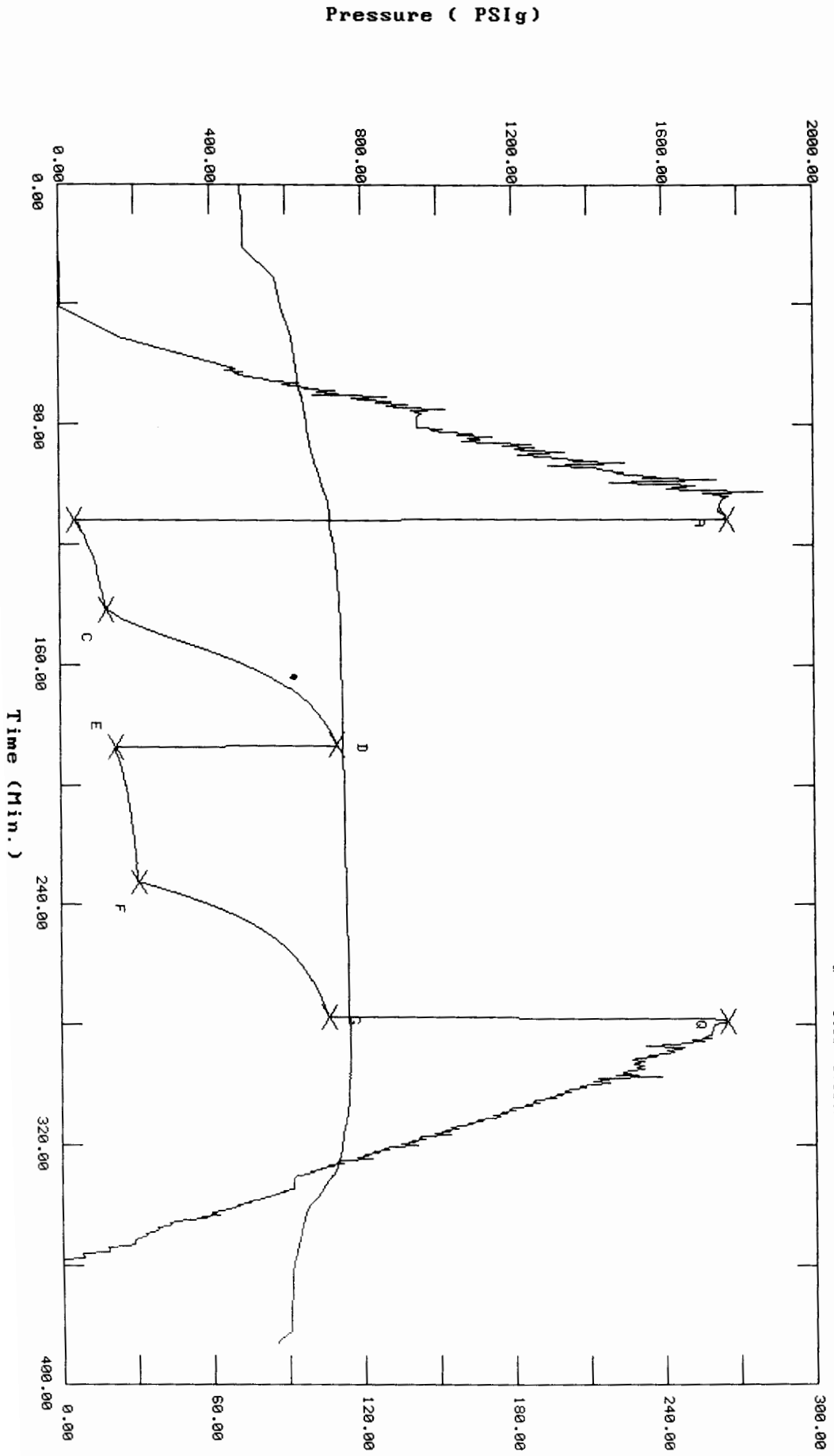
REMARKS:

Fluid sampler data --not run
 Sampler recovery pit mud analysis
 gas- cf -ML. Chlorides---1800---ppm.
 oil-----ML. res----Ohms@-----F'
 mud--- -----ML. viscosity--- -----
 water-----ML. mud wt.-----
 other-----ML. Filtrate-----
 pressure- ---PSI. Other---none-----
 Total--4000-----ML.



97299

TEST HISTORY
 11888 Phillips Exploration Packbush #1-20 DST #2

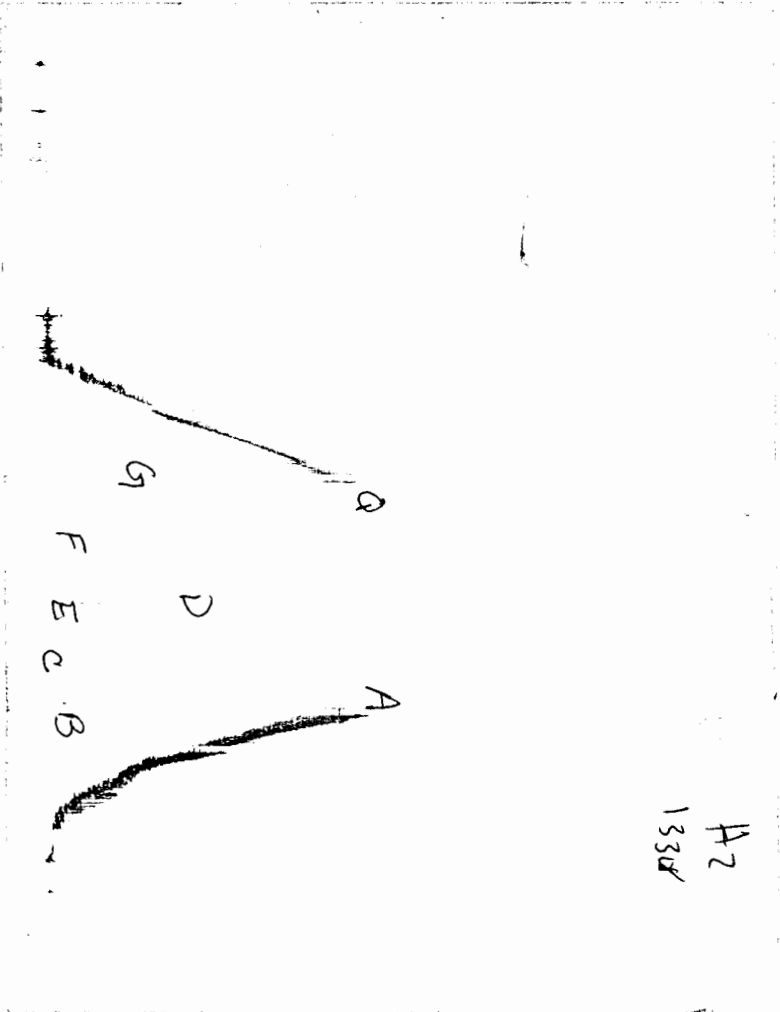


Flag Points

t (Min.)	P (PSig)
A:	0.00 1772.51
B:	0.00 37.52
C:	30.00 122.67
D:	44.50 732.32
E:	0.00 146.82
F:	45.00 205.66
G:	45.00 705.76
Q:	0.00 1768.57

Temperature (DEG F)

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

97299

Test Ticket

No 11888

Well Name & No. Patchouk 1-20 Test No. 2 Date 9-6-99
 Company Phillips Exploration Zone Tested MSI
 Address _____ Elevation 1607 KB 1598 GL
 Co. Rep / Geo. Jim Phillips Cont. Sterling Bu Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 20 Twp. 23S Rge. 2W Co. Paw State KS
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 30562-3642 Initial Str Wt./Lbs. >2,000 Unseated Str Wt./Lbs. 25,000
 Anchor Length 80 Wt. Set Lbs. 22,000 Wt. Pulled Loose/Lbs. 850⁰⁰
 Top Packer Depth 3557 Tool Weight 2500
 Bottom Packer Depth 3562 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 3642 Wt. Pipe Run _____ Drill Collar Run 1197
 Mud Wt. 9.2 LCM _____ Vis. 118 WL 9.6 Drill Pipe Size 4 1/2" XH Ft. Run 3060
 Blow Description 2" blow building to bottom of bucket in 3 minutes
ISI - blow back built to 4"
FF - 3" blow building to bottom of bucket in 3 minutes
FSI - blow back built to 3"

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
Rec. <u>200</u>	Feet Of <u>mud</u>	%gas _____ %oil _____ %water _____ %mud _____	
Rec. <u>120</u>	Feet Of <u>gassy slt @ WCM</u>	5%gas 5%oil 10%water 70% mud	
Rec. <u>60</u>	Feet Of <u>slt @ WCM</u>	%gas 10%oil 20%water 70% mud	
Rec. _____	Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____	Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT 113 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
 RW .24 @ 90 °F Chlorides 24,000 ppm Recovery Chlorides _____ ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>1926</u>	<u>773</u>	<u>2357</u>	<u>0845</u>
(B) First Initial Flow Pressure	<u>85</u>	<u>37</u>	(depth) <u>3566</u>	T-Started <u>0953</u>
(C) First Final Flow Pressure	<u>157</u>	<u>123</u>	PSI Recorder No. <u>13308</u>	T-Open <u>1102</u>
(D) Initial Shut-In Pressure	<u>748</u>	<u>732</u>	PSI (depth) <u>3629</u>	T-Pulled <u>1347</u>
(E) Second Initial Flow Pressure	<u>181</u>	<u>147</u>	PSI Recorder No. _____	T-Out <u>1521</u>
(F) Second Final Flow Pressure	<u>241</u>	<u>206</u>	PSI (depth) _____	T-Off Location _____
(G) Final Shut-in Pressure	<u>725</u>	<u>706</u>	PSI Initial Opening <u>30</u>	Test _____
(Q) Final Hydrostatic Mud	<u>1891</u>	<u>1769</u>	PSI Initial Shut-in <u>45</u>	Jars _____
			Final Flow <u>45</u>	Safety Joint <u>X</u>
			Final Shut-in <u>41.5</u>	Straddle _____

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Approved By [Signature]
 Our Representative Paul Simpson

Circ. Sub _____
 Sampler _____
 Extra Packer _____
 Elec. Rec. X
 Mileage _____
 Other _____
 TOTAL PRICE \$ _____